

W. B. ALEXANDER

CEMENT RECEIPT

PROJ. 28-88

Book 1 of 2

2500 lbs of rock to 1 cu. yd.  
 3000 " " sand " / " "  
 Calcium chloride 7.8 lbs to a batch  
 Celite 15 lbs. to a batch  
 4 sacks = 1 BBL. Cement

{ Sand 1090 <sup>(lbs.)</sup> dry per batch 5-BBL. }  
 1137

Calcium Chloride 350 lbs per 60 ft.

1308 Dry for six sacks batch.

1296 " " " " " "



WT. PER CU. FT COMPACTED ~~100~~ 94.5  
 " " " " AS USED 91

% OF VOIDS COMPACTED 40

Inches Decimal of Foot.

1" - - - .083 11" = .916

2" - - - .166

3" - - - .25

4" - - - .333  $\frac{5}{6}$  = 1.05

5" - - - .416  $\frac{1}{2}$  = .66

6" - - - .5

7" - - - .583

8" - - - .666

9" - - - .75

10" - - - .833

U 25 11

W. S. Alexander

Ramsey County Eng.

{Inspector}

Load of sand refused at 8:30 AM

6-9-22 - Gravel & dirt

F. HENSEL Ho. 1592

6-7-28-1 man Station 318-319

6-8-28 1 man " 318-319

1  
1.05 lbs per ft

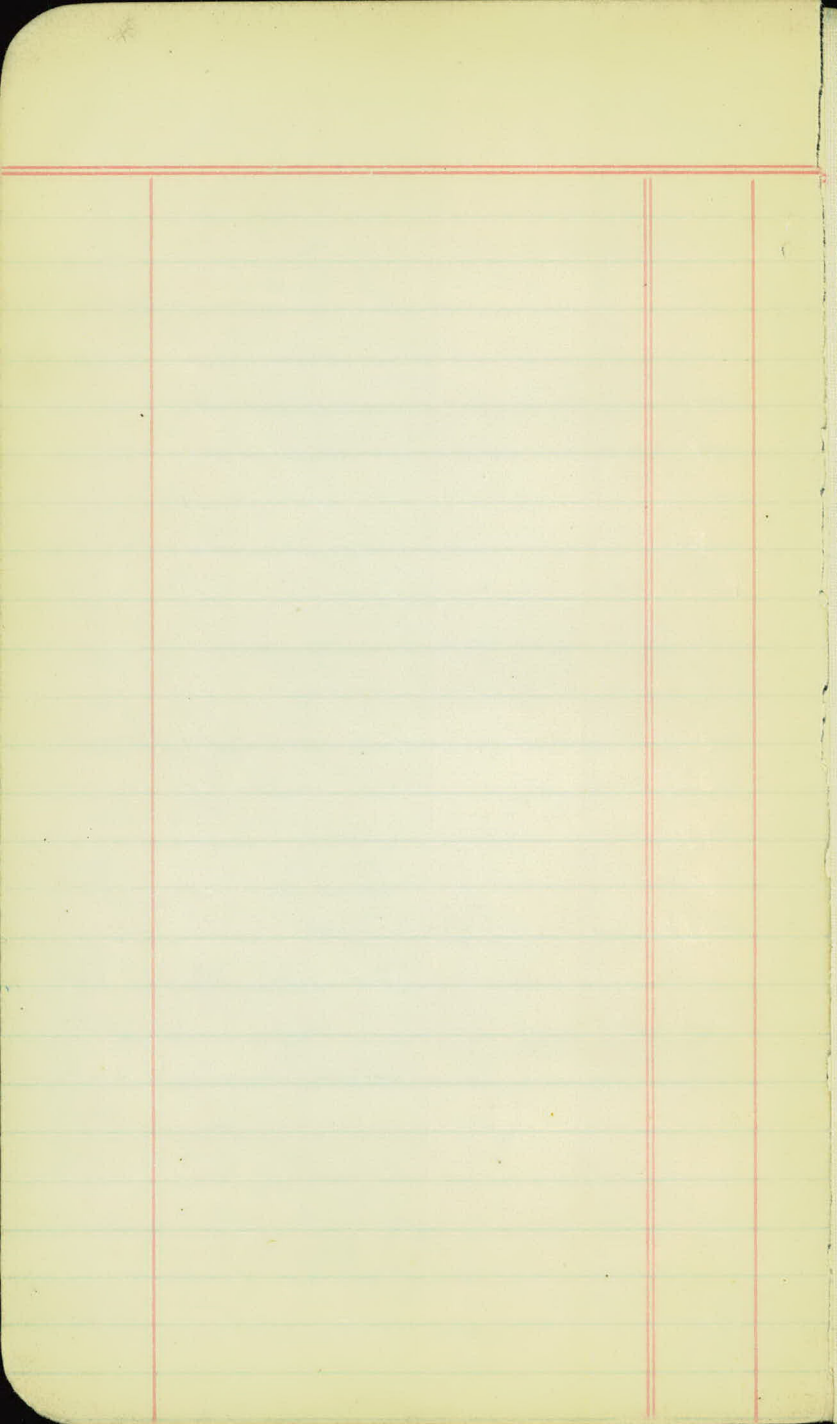
# STEEL

LBS		CAR NO.
<del>5/8 round pcs. 2216</del>	<del>Length</del>	<del>41' 6"</del>
<del>134</del>		<del>32' 6"</del>
<del>82</del>		<del>32' 3"</del>
<del>114</del>		<del>32' 0"</del>
<del>128</del>		<del>31' 10"</del>
<del>84</del>		<del>31' 9"</del>
<del>220</del>		<del>31' 8"</del>
<del>1317</del>		<del>31' 6"</del>
<del>546</del>		<del>31' 6"</del>
<del>102</del>		<del>31' 4"</del>
<del>120</del>		<del>31' 3"</del>
<del>220</del>		<del>31' 0"</del>
<del>176</del>		<del>31' 0"</del>
<del>108</del>		<del>30' 6"</del>
<del>102</del>		<del>30' 3"</del>

VOID

TOTAL, LBS. 210,560.3

5-19628 36,382.5

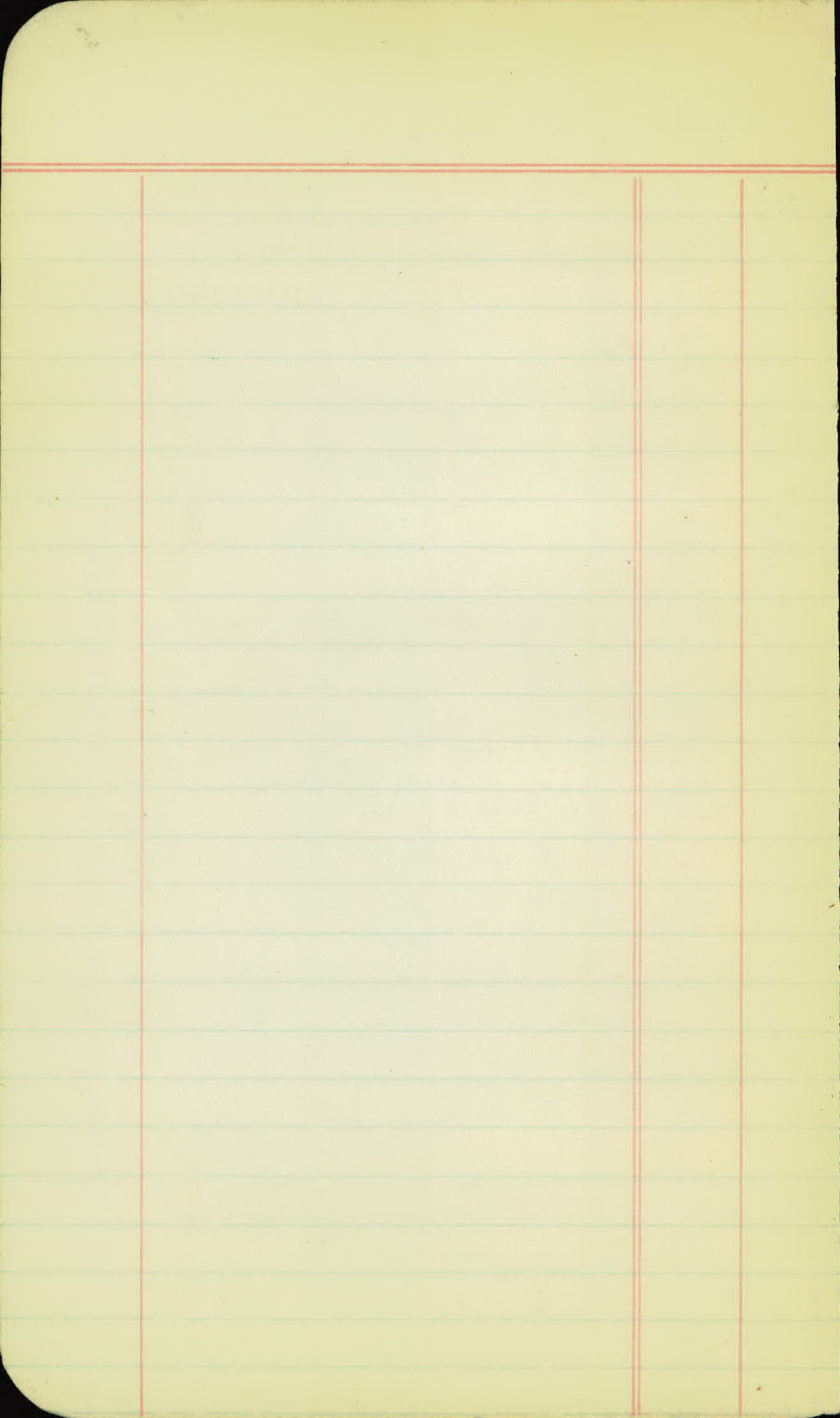


EXTRA CEMENT PUT IN BATCHES

STANDING OVER SIX HOURS.

DATE SX,

6-7-28	18
6-8-28	12
6-14-28	6



154+30  
LONG PLATS

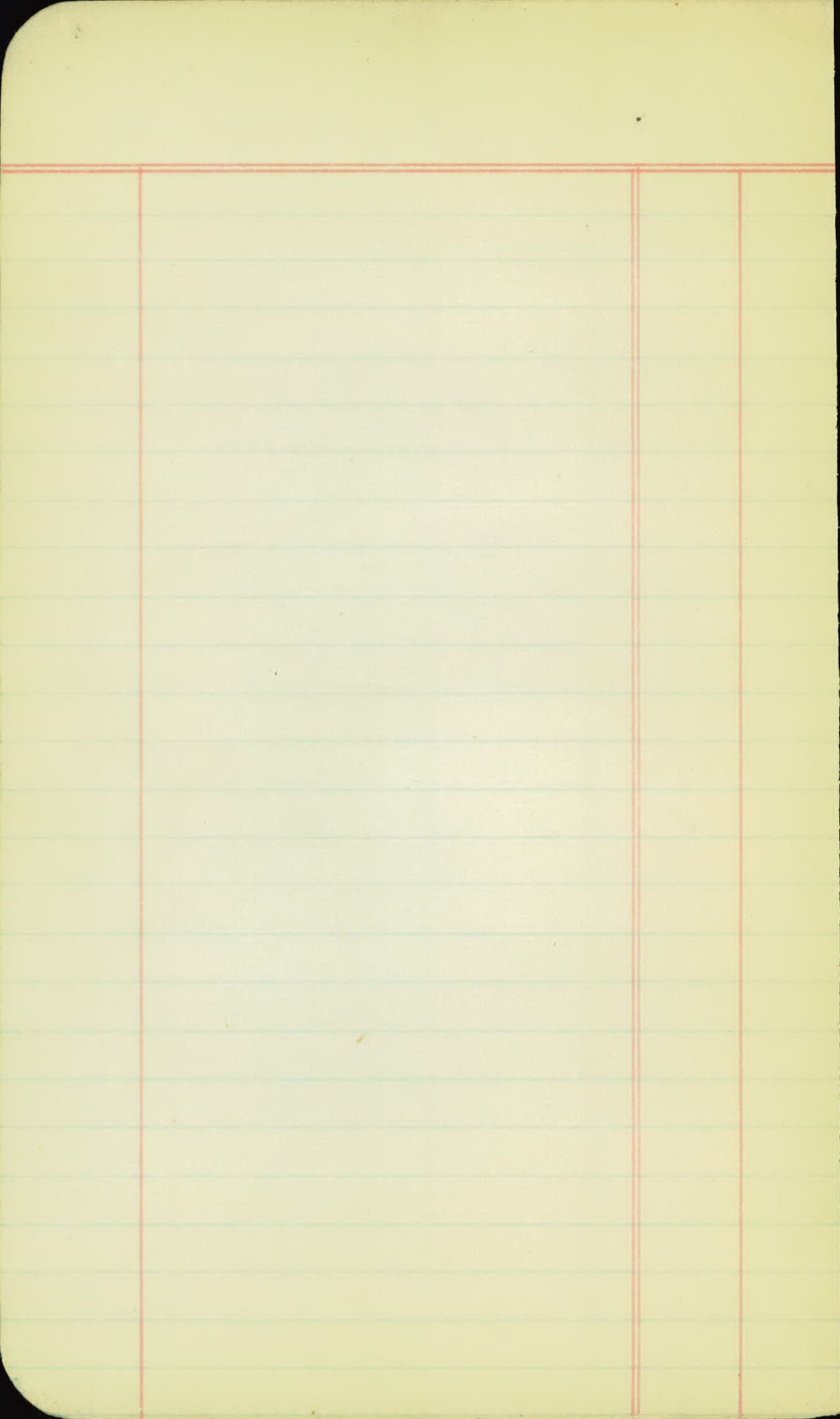
150  
30  
50  
100  
200

5

TAR FROM STA. TO STA. DAILY

DATE	STATION	FT.	MEN
6-19-28	150+75 TO 152+50		3
6-20-28	152+50 " 190+00	1,123	5
6-21-28	190+00 " 260+00	2,098	4
6-23-28	260+00 " 300+00		

150+75  
 152+30  
 70/9  
 150  
 190  
 260  
 77.7  
 27  
 700  
 630  
 50  
 1354  
 2097.9

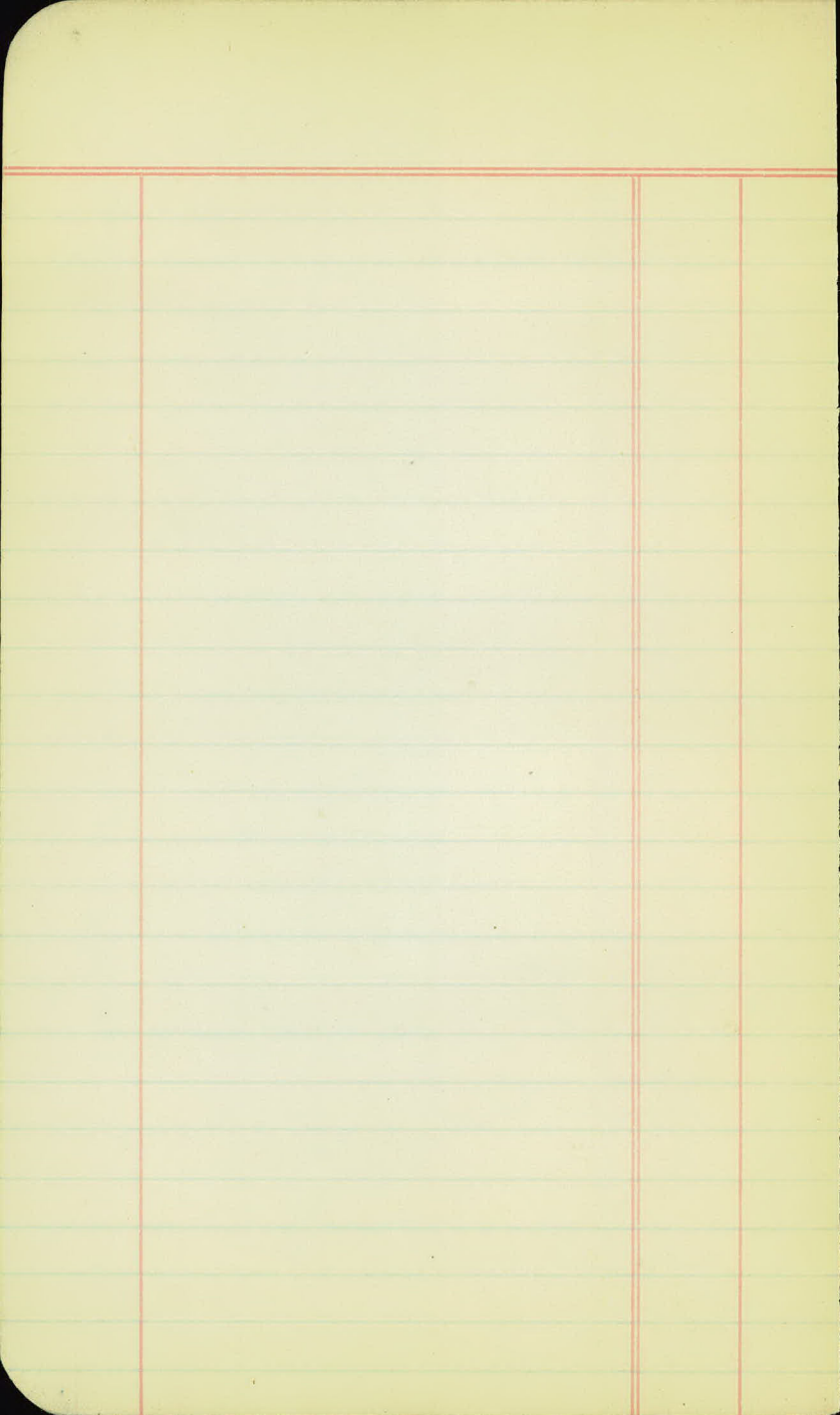


6 cars

100,100 CAL. CHL.

180,000 LBS.

280  
330  
000  
1430  
858  
106100







6-27-28

40 | 1200  
1200  
1200  
1200

40 | 13900  
13900  
3600  
2300  
208

40 | 18300  
18300  
12200  
200

9

2 1/2"	100%
2"	97.5%
1"	55.0%
1/2"	12.5%
1/4"	2.5%
1/8"	6%

6-29-28

18000	18000
17900	17960
17000	18200
16540	17400
17880	17060
17700	17720
18100	17400
18200	17960
17680	17520
17160	159220
17680	319000
17400	478220
18000	2500
18840	22822
17580	22500
18000	3220
17280	

5 YDS WASTE

191 yds.

18 | 18,060  
31,9000

15/5  
5/5

15  
2  
45  
10  
104  
114  
5  
119



$\frac{13}{52}$

$\frac{15}{42}$  yds. and.  
 $\frac{22}{122}$

$\frac{9}{125}$

- 19200 17820
- 18700 16880
- 18000 17640
- 18680 17760
- 18600 19000
- 19380 19040
- 18800 18440
- 18160 17920
- 18600 18600
- 19680
- 18760
- 18480
- 18400
- 18360
- 17840
- 17360
- 18846
- 18000
- 18240
- 18800
- 18280
- 17140

6-26-28

~~18500~~

181660

423200

604860

5000

10486

10000

4860

241 yds. rock. 20 yds. waste

16900

$\frac{19}{423200}$

6-27-8

$\frac{36\frac{3}{4}}{108}$

$\frac{9}{45}$

$\frac{14}{44}$   
 $\frac{44}{45}$   
 $\frac{10.8}{197}$

18720

18400

19040

18400

18360

20140

18760

18720

18360

19400

18560

17840

19560

18600

18280

19480

18640

19300

18440

18680

19160

18460

19120

19640

18860

18900

17500

19480

19520

17480

18500

18840

18800

19200

19120

18960

18600

19480

18920

17600

18900

$\frac{16117}{377000}$

18320

461220

19840

838320

19440

7500

$\frac{2}{461320}$

$\frac{8832}{7500}$   
 $\frac{13320}{12500}$

17480

17100

19200

67680

73460

5000

23460

22500

6-28-88

6-28-

29

2500 | 838320 | 335  
7500  
8832  
7500  
13320  
12500

33  
 5  
 165  
 15  
 180

11

SAND

DATE	UNITED MAT'L	YRDS.
5-1-28		65
5-23-28		190 yds.
5-24-28		180 yds.
5-25-28		185 yds.
- 26-28		195 yds.
- 28-28		190 yds.
- 29-28		157 yds.
- 30-28		114 yds.
- 31-28		165 yds.
6-1-28		185 yds.
- 2-28		166 yds.
- 4-28		156 yds.
- 5-28		140 yds.
- 6-28		145 yds.
- 7-28		190 yds.
- 8-28		190 yds.
- 9-28		215.5 yds.
- 11-28		198 yds.
- 14-28		215 yds.
- 15-28		225 yds.
- 16-28		73 yds.
- 18-28		113 yds.
5 yds of sand Balance		

SAND

JEFFERSON HIGHWAY

<del>6-26-28</del>	<del>122</del>	<del>yds.</del>
<del>6-27-28</del>	<del>197</del>	<del>yds.</del>
<del>6-28-28</del>	<del>3</del>	<del>yds.</del>
6-29-28	119	yds.

VOID

6-9-20	E00520	75
	518	75
	517	75
	515	75
	510	75
	508	75
	511	75
	513	75
	507	75
	480	75
	479	75
	477	75
	476	75
	458	75
	457	75
	504	75
	505	75
	599	80
	591	80
	584	80
	506	150
	478	150
	481	150
	509	150
	512	150

$$\begin{array}{r} 75 \\ 19 \\ \hline 675 \\ 25 \\ \hline 1425 \\ 1050 \\ \hline 2875 \end{array}$$

$$\begin{array}{r} 80 \\ 2 \\ \hline 400 \end{array}$$

$$\begin{array}{r} 150 \\ 2 \\ \hline 1050 \end{array}$$

516	150
519	150
514	75
522	75
611	80
612 TOTAL	2875
	80

6-11-28	E00688	75
	685	75
	683	75
	678	75
	635	75
	634	75
	633	75
	631	75
	630	75
	629	75
	627	75
	625	75
	624	75
	622	75
	621	75
	619	75
	618	75
	620	150

73  
19  
1425

150  
1320  
14220  
285

25,000

623	150
626	150
628	150
632	150
636	150
521	150
691	75
689	75
712	80
684	150
686 TOTAL. 2855	150

6-14-28 E00923	75
856	75
922	75
854	75
855	75
852	75
851	75
780	75
779	75
848	75
846	75
845	75
849	75

$$\begin{array}{r} 75 \\ 175 \\ \hline 250 \\ 125 \\ \hline 375 \\ 1050 \\ \hline 2580 \end{array}$$

$$\begin{array}{r} 150 \\ 1050 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ 175 \\ \hline 255 \end{array}$$

693	75
692	75
900	80
690	150
694	150
850	150
847	150
853	150
857	175
925	150
926	75
924	75
928 TOTAL	2580

6-75-28

E00973	75
972	75
970	75
969	75
967	75
966	75
951	75
955	75
948	75
954	75
953	75

75  
21  
75  
130  
1575

150  
88  
1200  
1575  
255  
3030

175  
80  
255

3174  
2830  
344

15  
698  
364  
354

944	75
929	75
947	75
930	75
945	75
927	75
E01000	80
E00950	150
946	150
956	150
968	150
971	150
975	150
952	175
976	150
E01019	75
E00978	75
977	75
E01028	150
1020 TOTAL	3030
	75

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5-16-28	E01026	75
	1024	75
	1036	75
	1035	75

72  
37  
37  
42  
1000

100  
450

1037	150
1023	150
1021	150
1071	175
1025 TOTAL. 1000	75

6-18-28 E 01041	70 = 31
1046	75
1044	75
1027	75
1039	75
1038	75
1112	75
1047	75
1040	150
1045 TOTAL 856	150

72  
37  
37  
42  
1000  
85

RETAINED 12 SX. FOR CURB.

30  
39  
31

72  
60  
10  
8  
85

25  
43  
62  
70  
80  
85

75  
37  
17  
15  
005  
0

- 25-28

E 01495

75

E 01501

75

E 01505

75

E 01513

75

01494

75

01514

75

01510

80

01511

75

01527

75

01529 TOTAL 855 SX.

75

STORAGE

P.I.  
28018  
00 SX.

75  
075

- 26-28

E 01606

75

1603

75

1593

75

1588

75

1559

75

1558

75

1541

75

1542

75

1597

150

1543

150

1617 TOTAL 975

75

75  
650  
345  
9

IL. 92328

- 27-28

D 44022

75

44020

75

$$\begin{array}{r} 75 \\ 14 \\ \hline 300 \\ 25 \\ \hline 1050 \end{array}$$

$$\begin{array}{r} 150 \\ 18 \\ \hline 300 \\ 150 \\ \hline 1800 \\ 1050 \\ \hline 2850 \end{array}$$

44018	75
44011	75
E01609	75
1625	75
D 44001	75
44003	75
44005	75
44007	75
44009	75
44012	75
44016	75
44014	75
44010	150
E01626	150
D 44002	150
44004	150
44006	150
44008	150
44013	150
44015	150
44017	150
44019	150
44021	150
44023 TOTAL 2850 SX.	150
6-28-28 D44024	150

132  
1308  
13

300

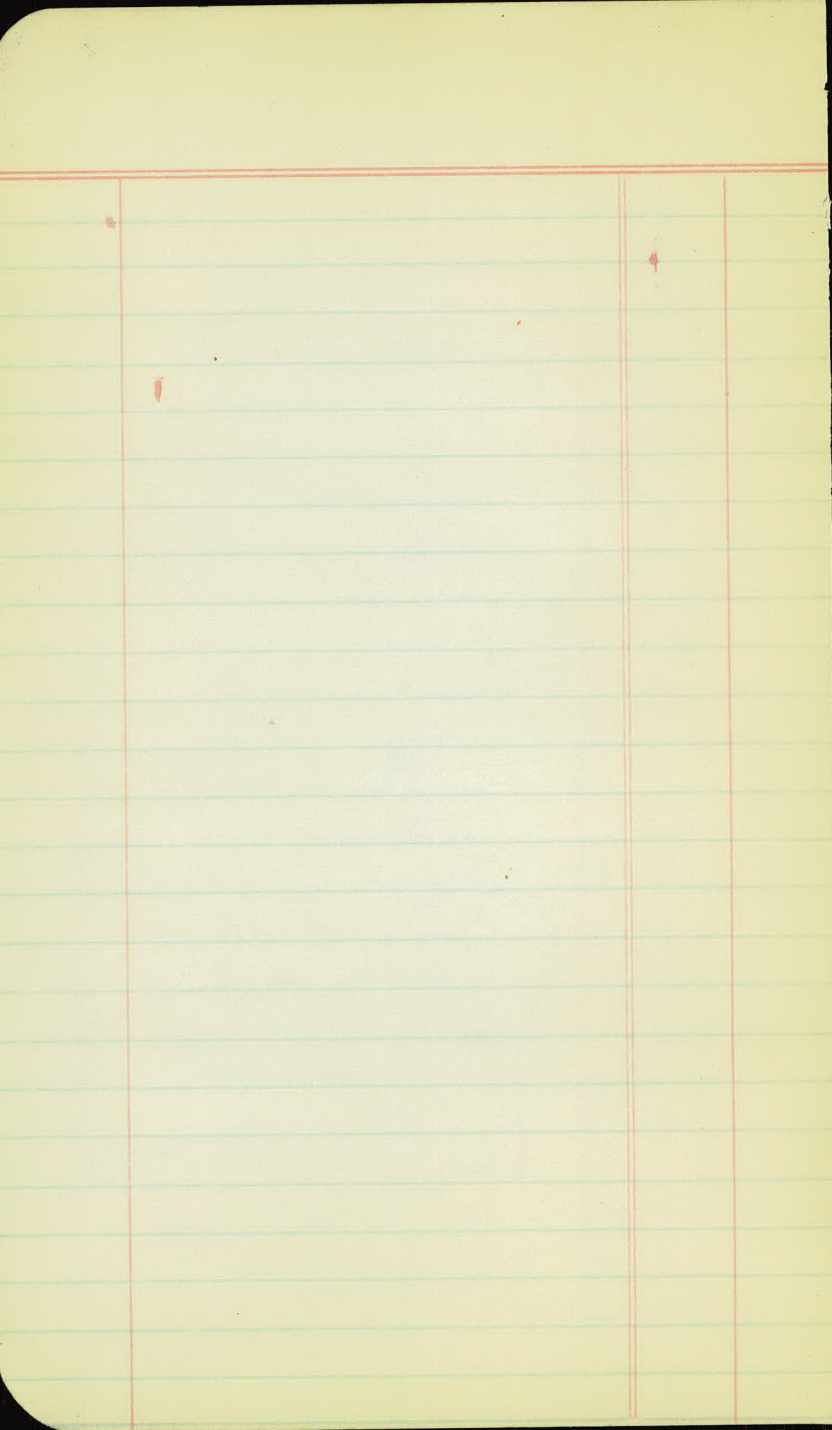
175  
175  
350  
300  
650

D 44029	175	
44026	175	
44024 TOTAL 650 SX.	150	

175  
175  
350

6-29-28 E 01768 MIL. 92328	75	
D 44030	75	150
44032	75	600 75
44035	75	375
44034	75	450
44033	150	675
44031	150	1000
44029	150	375
44028 TOTAL <del>1000</del>	175	600
44036	150	300
44037 TOTAL. 1275	125	1275

375  
600  
300  
1275



## CRUSHED ROCK

DATE	SHIELY	LBS.
5-1-28		294.620
5-23-28	331 yds. =	827,600
5-24-28	314 yds. =	786,240
5-25-28	355 yds. =	889020
5-26-28	364 yds. =	912,760
5-28-28	351 yds. =	898260
5-29-28	293 yds. =	734720
5-30-28	201 yds. =	502820
5-31-28	286 yds. =	713360
7-1-28	361 yds. =	902700
7-2-28	317 yds. =	793370
7-4-28	285 yds.	712500
7-5-28	284 yds.	711600
7-6-28	283 yds.	706960
7-7-28	379 yds.	947600
7-8-28	371 yds.	926820
7-9-28	420 yds.	1051700
7-11-28	434 yds.	1085060
7-14-28	406 yds.	1015240
7-15-28	433 yds.	1075860
7-16-28	143 yds.	358340
2 yds.	Rock Balance	

SHIELY

DATE

6-26-28

6-27-28

6-28-28

6-29-28

YDS.

241 yd.

335

29

191

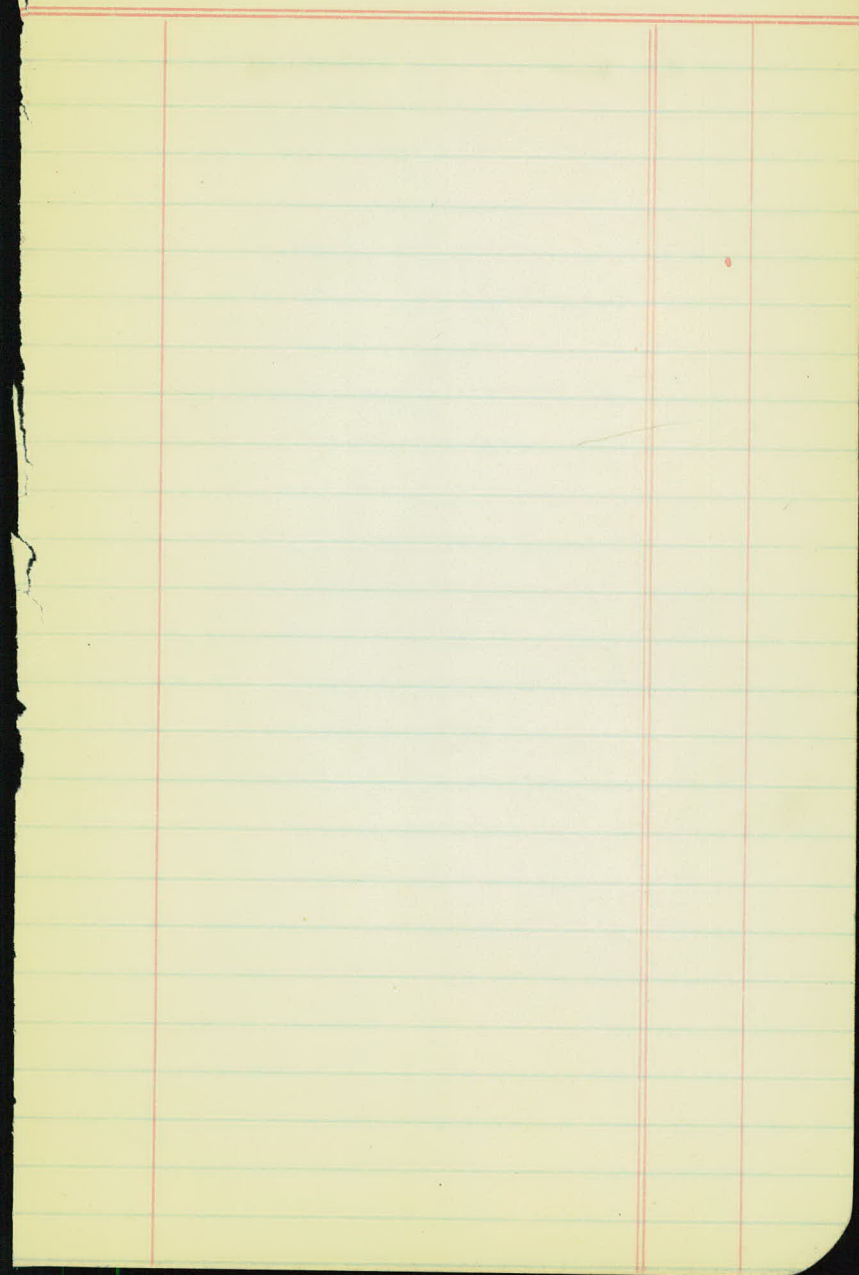
<sup>weight</sup>  
20 yds.

yds.

yds.

5 yds was

VOID



9 1/2  
600

DATE.

4-28-28	42044 ✓		75
	42043 ✓		75
	42010 ✓		75
	42017 ✓		75
	42003 ✓		75
	42035 ✓		75
	43048 ✓		75
	42051 ✓	TOTAL 600	75

4-30-28	42119 ✓	75	75
	42114 ✓	75	75
	42106 ✓	75	75
	42093 ✓	75	75
	42063 ✓	75	75
	42058 ✓	75	75
	42100 ✓	TOTAL 525	75

5-1-28	42213 ✓	75	75
	42205 ✓	75	75
	42200 ✓	75	75
	42192 ✓	75	75
	42157 ✓	75	75
	42137 ✓	75	75
	42142 ✓	75	75
	42157 ✓	75	75

$$\begin{array}{r} 75 \\ 150 \\ \hline 75 \\ 900 \\ \hline 1200 \\ \hline 1050 \end{array}$$

42158 ✓	75
42181 ✓	75
42184 ✓	75
42210 ✓	75
42207 ✓ TOTAL 1050	150

5-2-28 42262 ✓	75
42257 ✓	75
42253 ✓	75
42250 ✓	75
42248 ✓	75
42245 ✓	75
42234 ✓	75
42231 ✓	75
42221 ✓	75
42220 ✓	75
42220 ✓	75
42267 ✓	75
42271 ✓ TOTAL 975	75

5-3-28 42288 ✓	75
42277 ✓ TOTAL 150	75

5-5-28 42452 ✓	150
42483 ✓	150

150  
~~600~~  
~~675~~

42442 ✓ 75  
 42427 ✓ 150  
 42473 ✓ TOTAL 675 150

5-7-28 42564 ✓ 150  
 42517 ✓ TOTAL 300 150

5-8-28 42509 ✓ 75 150  
 42586 ✓ 75  
 42640 ✓ 75  
 42661 ✓ 75  
 42658 ✓ 75  
 42663 ✓ 75  
 42654 ✓ 75  
 42649 ✓ 75  
 42585 ✓ 150  
 42631 ✓ 150  
 42617 ✓ TOTAL 1125 150

5-9-28 42680 ✓ 150 75  
 42499 ✓ 75  
 42668 ✓ 150  
 42729 ✓ 150  
 42715 ✓ 150  
 42694 ✓ 150

42548 ✓		150
42531 ✓		150
42679 ✓	TOTAL 1200	150

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5-10-28	42749 ✓	TOTAL 150	150
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5-7-28	42994 ✓	750	150	75
	42992 ✓		750	75
	42991 ✓		160	75
	42993 ✓		750	75
	42956 ✓		1660	75
	42957 ✓			75
	42966 ✓			75
	42990 ✓			75
	42979 ✓			75
	42968 ✓			75
	42983 ✓			150
	42958 ✓			150
	42974 ✓			150
	42985 ✓			150
	42984 ✓			150
	42995 ✓			80
	42996 ✓	TOTAL 1660		80

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5-15-28	43057 ✓		150
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$$\begin{array}{r} 150 \\ 750 \\ 240 \\ \hline 450 \\ 1440 \end{array}$$

$$\begin{array}{r} 80 \\ 246 \\ \hline 756 \\ 450 \end{array}$$

43058 ✓	150
43059 ✓	150
43048 ✓	150
42986 ✓	150
42997 ✓	80
42998 ✓	80
42999 ✓	80
43047 ✓	75
43060 ✓	75
43062 ✓	75
42989 ✓	75
42988 ✓	75
42987 ✓ TOTAL 1440	75

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5-16-28 43123 ✓	75
43124 ✓ TOTAL 225	150

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5-17-28 43217 ✓	75
43213 ✓	75
43214 ✓	75
43216 ✓	75
43255 ✓	75
43256 ✓	75
43189 ✓	75
43188 ✓	75

$$\begin{array}{r} 75 \\ 14 \\ \hline 300 \\ 25 \\ \hline 1025 \\ 1050 \\ \hline 2025 \end{array}$$

$$\begin{array}{r} 150 \\ 5 \\ \hline 750 \end{array}$$

43186 ✓	75
43063 ✓	75
43064 ✓	75
43193 ✓	75
43191 ✓	75
43190 ✓	75
43212 ✓	150
43211 ✓	150
43218 ✓	150
43184 ✓	150
43185 ✓	150
43194 ✓	50
43065 ✓	50
43181 ✓	25
43192 ✓	180
TOTAL 2025	

5-18-28

43348 ✓	75
43329 ✓	75
43314 ✓	75
43313 ✓	75
43328 ✓	75
43330 ✓	75
43331 ✓	75
43333 ✓	75
43335 ✓	75

$$\begin{array}{r} 75 \\ 21 \\ \hline 75 \\ 150 \\ \hline 1575 \\ 1050 \\ \hline 2625 \end{array}$$

$$\begin{array}{r} 150 \\ 90 \\ \hline 1050 \end{array}$$

43334V	75
43342V	75
43290V	75
43282V	75
43309V	75
43260V	75
43259V	75
43278V	75
43285V	75
43279V	75
43257V	75
43258V	75
43315V	150
43316V	150
43340V	150
43280V	150
43254V	150
43253V	150
43308V TOTAL	2625 150

5-19-28

43352V	150
43358V	150
43355V	150
43360V	150
43405V	150

150  
1050

75  
14  
360  
75  
1050  
1050  
2100

43408 ✓	150
43409 ✓	75
43404 ✓	75
43406 ✓	75
43407 ✓	75
43400 ✓	75
43403 ✓	75
43398 ✓	75
43359 ✓	75
43357 ✓	75
43354 ✓	75
43351 ✓	75
43353 ✓	75
43350 ✓	75
43356 ✓	75
43401 ✓ TOTAL	2100 150

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5-20-28 43505	150
43503	150
43504	150
43513	150
43415 ✓	150
43509	75
43508	75
43480	75

150  
750

75  
19  
67.5  
14  
25  
750  
540  
2715

180  
540

43481	75
43412V	75
43411V	75
43461	75
43410V	75
43462	75
43414V	75
43413V	75
43485	75
43486	75
43482	75
43484	75
43506	75
43509	75
43487	75
43510	75
43479	180
43460	180
43483 TOTAL 2715	180

5-22-28 43602	75
43597	75
43599	75
43596	75
43605	75

$$\begin{array}{r} 75 \\ 175 \\ \hline 525 \\ 75 \\ \hline 1275 \end{array}$$

$$\begin{array}{r} 150 \\ 1350 \\ \hline 1275 \\ \hline 2625 \end{array}$$

43540	75
43542	75
43539	75
43511	75
43512	75
43543	75
43546	75
43547	75
43548	75
43550	75
43551	75
43552	75
43603	150
43598	150
43545	150
43553	150
43613	150
43609	150
43544	150
43549	150
43541 TOTAL	2625

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5-28-28	44523	75
	44521	75
	44521	75

$$\begin{array}{r} 75 \\ 180 \\ \hline 400 \\ 75 \\ \hline 1350 \end{array}$$

$$\begin{array}{r} 80 \\ 3 \\ \hline 240 \end{array}$$

$$\begin{array}{r} 150 \\ 8 \\ \hline 1200 \\ 13500 \\ 2790 \\ \hline \end{array}$$

44517	75
44518	75
44512	75
44511	75
44515	75
44514	75
44586	75
44581	75
44577	75
44578	75
44528	75
44527	75
44524	75
44526	75
44609	80
44610	80
44519	150
44513	150
44516	150
44522	150
44525	150
44532	150
44539	150
44615	80
44587	TOTAL = 2790
44588	75

$$\begin{array}{r}
 75 \\
 15 \\
 \hline
 375 \\
 75 \\
 \hline
 1125 \\
 600 \\
 \hline
 1725 \\
 1675 \\
 \hline
 2067
 \end{array}$$

5-29-28	44637	75
	44623	75
	44622	75
	44589	75
	44591	75
	44592	75
	44627	75
	44633	75
	44631	75
	44630	75
	44628	75
	44635	75
	44639	75
	44638	75
	44624	150
	44590	150
	44629	150
	44636	150
	44640	175
	44593	167
	44634 TOTAL 2067	75
5-30-28	44733	75
	44732	75
	44729	75

75  
150  
75  
900

150  
75  
900  
1650

44728	75
44717	75
44736	75
44737	75
44632	150
44738	150
44739	150
44731	150
44730	150
44735	75
44734	75
44740	75
44741	75
44742 TOTAL 1650	75

5-31-28 44786	75
44784	75
44783	75
44752	75
44751	75
44750	75
44749	75
44748	75
44747	75
44743	75

$$\begin{array}{r} 75 \\ 13 \\ \hline 225 \\ 25 \\ \hline 975 \end{array}$$
$$\begin{array}{r} 150 \\ 9 \\ \hline 1260 \\ 915 \\ \hline 2175 \end{array}$$

29

44754	75
44755	75
44790	150
44753	150
44788	150
44746	150
44744	150
44745	150
44756	150
44785	75
44799 TOTAL	2175
	150

---

6-1-28	44894	75
	44893	75
	44849	75
	44848	75
	44846	75
	44845	75
	44800	75
	44798	75
	44796	75
	44794	75
	44793	75
	44792	75
	44791	75

$$\begin{array}{r} 75 \\ 150 \\ \hline 225 \\ 450 \\ \hline 1350 \\ 1025 \\ \hline 2375 \\ 25 \\ \hline 2400 \end{array}$$

$$\begin{array}{r} 150 \\ 2 \\ \hline 1050 \end{array}$$

44885	75
44842	75
44843	75
44883	75
44895	150
44892	150
44850	150
44847	150
44795	150
44844	150
44801	125
44886	150
44887 TOTAL	2575

6-2-28

E00025	75
00024	75
44983	75
44981	75
44980	75
44978	75
44976	75
44976	75
44944	75
44943	75
44891	75
44890	75

$$\begin{array}{r} 75 \\ 14 \\ \hline 450 \\ 75 \\ \hline 1200 \end{array}$$

$$\begin{array}{r} 150 \\ 7 \\ \hline 1050 \\ 1200 \\ \hline 2490 \end{array}$$

30

44888	75
44948	75
44947	75
44885	75
E 000 44	80
44982	150
44984	150
E 000 26	150
44949	150
44889	150
44945	150
44978	150
E 000 43	80
E 000 28 TOTAL 2490	80

6-4-28 E 000 73	75
72	75
70	75
67	75
69	75
66	75
64	75
63	75
34	75
33	75

$$\begin{array}{r} 75 \\ 12 \\ \hline 225 \\ 45 \\ \hline 975 \end{array}$$

$$\begin{array}{r} 150 \\ 4 \\ \hline 600 \\ 975 \\ \hline 1875 \end{array}$$

31	75
29	75
61	75
62	150
32	150
65	150
68	150
71	150
74 TOTAL	1875



43648	150
43634	150
43665	150
43678	150
43696	150
43677	150
43710	TOTAL 2710 SX. 75

5-24-28 43769	75
43746	75
43765	75
43764	75
43763	75
43767	75
43768	75
43762	75
43779	75
43713	75
43712	75
43711	75
43731	75
43732	75
43733	150
43679	150
43735	156

$$\begin{array}{r} 75 \\ 150 \\ \hline 225 \\ 225 \\ \hline 450 \\ 105 \end{array}$$

$$\begin{array}{r} 150 \\ 200 \\ \hline 350 \\ 130 \\ \hline 480 \\ 240 \end{array}$$

43715	150
43714	150
43758	150
43761	150
43759	150
43770 TOTAL 2406 SX.	150

5-25-28	43831	75
	43832	75
	43830	75
	43829	75
	43826	75
	43825	75
	43822	75
	43823	75
	43816	75
	43817	75
	43866	75
	43865	75
	43861	75
	43859	75
	43860	75
	43862	75
	43871	159
	43870	150

150  
700

75  
19  
675  
95  
1425  
900  
2325  
129  
2484

43833	150
43818	150
43824	150
43827	150
43828	150
43869	75
43867	75
43868 TOTAL 2484	75

5-26-28 43916	75
43914	75
43917	75
43913	75
43911	75
43910	75
43908	75
43904	75
43905	75
43907	75
43904	75
43992	75
43982	75
43983	75
43998	75
43921	80

$$\begin{array}{r} 75 \\ 13 \\ \hline 375 \\ 76 \\ \hline 1125 \\ 600 \\ \hline 360 \\ 560 \\ \hline 2819 \end{array}$$

$$\begin{array}{r} 150 \\ 4 \\ \hline 600 \end{array}$$

$$\begin{array}{r} 180 \\ 360 \end{array}$$

33

$$\begin{array}{r} 89 \\ 560 \end{array}$$

43996	80
43918	80
43919	80
43972	80
43986	80
43988	80
43915	150
43912	150
43906	150
43909	150
43920	174
43995	180
43981	180
2819	

---

5-28-28	ON PAGE-27-
5-29-28	" " 28
5-30-28	" " 28
5-31-28	" " 29
6-1-28	" " 29
6-2-28	" " 30
6-4-28	" " 30

---

6-5-28	E 00151	75
	150	25
	149	75

$$\begin{array}{r} 75 \\ 14 \\ \hline 450 \\ 2 \\ \hline 1200 \end{array}$$

$$\begin{array}{r} 150 \\ 6 \\ \hline 900 \end{array}$$

148	75
076	75
075	75
166	75
167	75
153	75
172	75
170	75
169	75
154	75
171	150
174	150
168	150
147	150
156	150
152	150
173	75
176	75
175 TOTAL	2100

---

6-6-28 E00 248	75
246	75
245	75
236	75
235	75

15  
11  
75  
75  
825

150  
100  
925  
17,50  
1875

249	75
233	75
232	75
231	75
242	75
243	75
244	150
229	150
230	150
239	150
247	150
250	150
288 TOTAL	1875

75  
15  
825

150  
1050  
825  
1875

6-7-28

E 00360	75
359	75
357	75
356	75
354	75
353	75
351	75
311	75
315	75
314	75
312	75

150  
 900  
 75  
 175  
 1425  
 2300  
 2300

287	75
284	75
318	75
317	75
285	75
319	150
286	150
313	150
316	150
352	175
355	150
358	150
383	75
361	75
366 TOTAL. 2300	75

---

6-8-28 F 00402	75
399	75
398	75
396	75
395	75
389	75
387	75
386	75
392	75

$$\begin{array}{r} 75 \\ 17 \\ \hline 92 \\ 27 \\ \hline 129 \end{array}$$

$$\begin{array}{r} 80 \\ 240 \end{array}$$

$$\begin{array}{r} 150 \\ 1260 \\ \hline 1275 \\ 240 \\ \hline 2715 \end{array}$$

35

393	75
451	75
450	75
449	75
447	75
403	75
483	80
470	80
397	150
400	150
453	150
394	150
384	150
385	150
388	150
456	75
452	75
489	80
454 TOTAL	2715
	150

6-9-28 ON PAGE 13

6-11-28

Moisture 4.8%

passing 1/4" 95.8%

Retained No. 10 = 100

" " 20 = 73 = 69.9%

" " 50 = 246 = 61.6%

passing " 50 = 458 = 72%

456 12 70  
2736  
2736  
72  
2300  
3190  
1080  
69.7  
3190  
2226  
4548  
4114  
426

2 1/2" 100%

2" 98.1%

1" 52.5%

1/2" 10.0%

1/4" 2.5%

1/8" 1.6%

78.1  
46 5925  
3625  
210  
40 325  
100  
200  
3400

6-14-28

Moisture 3.6%

passing 1/4" = 94.8%

Retained No. 10 = 90

" " 20 = 89 = 69.5%

" " 50 = 231 = 60.8%

passing " 50 = 457 = 10.2%

69.7  
592  
13200  
4200  
4900  
4113  
2670  
609  
278  
242  
3820  
102  
457 4700  
438  
1300  
100  
200  
4332  
2300  
19  
3

EL. 1.4%

6-14-28

2 1/2" = 100% 1/4" = 2.1%

2" = 96.8% 1/8" = .6%

1" = 47.5%

1/2" = 12.5%

6-8-28

40	38.75	967
	360	
	220	
	250	
	250	

36

2 1/2"	100%
2"	96.9%
1"	45.0%
1/2"	7.5%
1/4"	2.5%
1/8"	.6%

40	484
40	800
24	100
70	400
	280
	250

40	125
24	48
40	100
100	300
40	47
40	900
40	46
40	60
40	20
234	

Mixture 3.0%

passing 1/4" 98.7%

Retained 110.10 = 94

" " " 20 = 84 = 67.2%

" " " 50 = 238 = 62.4%

passing " 50 = 61 = 12.7%

485
478
4365
4250
4882
3700
674
32200
2274
340
2350
1000

479	6106	12.7
	489	
	1310	
	958	
	20	
	3253	

479	29	90
	2874	
	1160	
	938	
	2020	

6-9-28

2 1/2"	100%
2"	97.5%
1"	47.5%
1/2"	10.0%
1/4"	3.7%
1/8"	.6%

40	3900	97.5
	300	
	300	
	280	
	20	
40	1500	40
	1500	1700
	20	100
		200
		20

HAVE NOT RECEIVED TICKET FOR MIL. 505384



6- - - 28

2 1/2" 100%

2" 97.5%

1" 47.5%

1/2" 7.5%

1/4" 2.5%

1/8" .6%

DATE

200  
100

200  
40 97  
31 70  
47 1  
100  
300  
200  
200

46 6  
1200  
200  
2100

6-6-28

17

Moisture 3.0%

passing 1/4" = 96.5%

Retained 710.10 - 123

" " 20 - 97 = 62.4%

" " 50 - 205 = 52.3%

passing " 50 = 90 = 8.5%

465

500  
48 96.5  
17 10  
48 5  
31 50  
20 10  
24 50

6-6-28

2 1/2" 100%

2" 98.1%

1" 52.5%

1/2" 10.0%

1/4" 2.5%

1/8" .6%

1.5

200 300  
1000

275 Pan

EL 1.5%

218 - 320 + 75

6-4-28

610  
599  
2011 366 126  
469

Moisture 2.6%

passing 1/4" 96.3%

Retained No. 10 = 127

" " 20 = 95 = 63.9%

" " 50 = 205 = 52.6%

passing " 50 = 42 = 8.7%

469	487	96.3
		46900
		4383
		3026
		2322
		1480

2 1/2" 100%

2" 98.1%

1" 52.5%

1/2" 10.6% 6-4-28

1/4" 2.5%

1/8" .6%

Moisture 2.5%

passing 1/4" 98.3%

Retained No. 10 = 104

" " 20 = 103 = 68.3%

" " 50 = 219 = 56.0%

passing " 50 = 45 = 9.5%

510	1200	25
	1300	
	2100	
	488	
	471	
	683	
471	3220	
	2826	
	3940	
	3576	
	72	

6-5-28

5-31-28

R.R.	CAR NO.	WEIGHT	
4-24	ST.P. 305876	435770	✓
4-25	N.Y.C. 346626	98540	✓
4-26	B.4 70617	112430	✓
4-11	C.M. ST.P. 303121	27024	✓
5-26	C.N.W. 116420	121528	✓
5-24	N.Y.C. 329939	432512	✓
5-19	ST.P. 303879	36383	✓
5-31-28	C.N.W. 116423	61187	✓

6-1-28

6-1-28 - 2 1/2"	100%
2"	98.7%
1"	46.2%
1/2"	7.7%
1/4"	2.5%
1/8"	.6%

6-1-28

Moisture	3.0%	470	60.2
passing 1/4"	98.9%	470	2820
Retained 710.10	= 124		1000
" 20"	96 = 60.2%	470	2350
" 50"	187 = 50.0%	470	480
passing " 50"	48 = 10.2%		1000

40 137.5  
97.5  
300  
200  
280  
200

18800 19000

18680 19520

17720 38520

18840 464300

18160 502820

19000

18400 2500 502820  
5000  
2820

17840

40 1250.0  
300

19000 6-2-28

18200 2 1/2 " 100%

18280 2 " 97.5%

18560 1 " 50.6%

18800 1/2 " 7.5%

18400 1/4 " 2.5

18240 1/8 " .6%

18400

18960 Moisture 2.8%

18900 passing 1/4" 97.3%

19000 Retained No. 10-112

18760 " " 20-93 = 64.4%

19260 " " 50-211 55.8%

18680 passing " 50 = 5.3 / 470 11.1%

18600

18000 6-2-28

599  
486 610  
596 2.8  
500 1400  
1000  
4000

21 19320  
464300

2 1/2  
2 1/3

4 1/2  
1 1/2  
1 1/2

2 1/2  
130  
147  
1 1/2

17880	18500
17800	19360
17800	19040
18920	17760
17920	19120
18000	18920
19240	18640
18440	18800
17600	19040
17520	17920
17500	17640
18200	19000
17360	18200
18280	17920
18600	18120
17840	18600
18500	297580
18440	437140
18300	734720
17760	
18200	
19320	
19000	
18720	

~~297580~~  
~~437140~~  
734720  
 2500 | 734720  
 5000  
23472  
 22560  
 9720  
 7300  
2228

1925  
 437140

5-29-28

$$\begin{array}{r} 610 \\ 376 \\ \hline 560 \end{array} \bigg| 1400 \quad (2.5\% \text{ in } 500)$$

$$\begin{array}{r} 500 \\ 486 \\ \hline 486 \end{array}$$

Moisture 2.5%

passing  $\frac{1}{4}$ " 99.1%

Retained No. 10 = 102

" " 20 = 116 = 69.8%

" " 50 = 221 = 54.3%

passing " 50 = 41 = 8.5%

480

$$\begin{array}{r} 482 \big| 4100 \\ 3856 \\ \hline 2440 \end{array}$$

$$\begin{array}{r} 486 \big| 482000 \\ 4374 \\ \hline 4466 \\ 4374 \\ \hline 86 \end{array}$$

$$\begin{array}{r} 482 \big| 26200 \\ 2010 \\ \hline 22100 \\ 1928 \\ \hline 2820 \end{array}$$

$$\begin{array}{r} 482 \big| 33700 \\ 2892 \\ \hline 4780 \\ 4348 \\ \hline 4320 \end{array}$$

$$\begin{array}{r} 18 \\ 90 \\ 240 \\ \hline 240 \end{array}$$

5-30-28

5-31-28

$2\frac{1}{2}$ " 100%  
 2" 98.7%  
 1" 45.0%  
 $\frac{1}{2}$ " 10.0%  
 $\frac{1}{4}$ " 2.5%  
 $\frac{1}{8}$ " .6%

$$\begin{array}{r} 40 \big| 395 \\ 360 \\ \hline 350 \\ 320 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 40 \big| 1700 \\ 1400 \\ \hline 300 \\ 230 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 500 \big| 2200 \\ 2000 \\ \hline 200 \end{array}$$

$$\begin{array}{r} 40 \big| 1800 \\ 1400 \\ \hline 400 \\ 220 \\ \hline 180 \end{array}$$

5-31-28

Moisture 4.4%

passing  $\frac{1}{4}$ " 96.8%

Retained No. 10 = 114

" 20 86 = 68.4%

" 50 231 = 56.3%

passing " 50 30 = 6.4%

461

Jan 3658 McBarnet  
 710  
 Pioneer Bldg.

4	19400	17880	
90	17680	17200	
115	17840	18400	357
	18520	18520	2500
	17680	17600	1878260
	18000	18100	9500
	18300	18200	12826
	19240	17960	12560
	17960	17600	3260
	18800	17920	
	19040	18640	
	18800	18360	
	17560	17400	
	17640	18840	
	18520	18560	
	18200	18200	
	18600	19960	
	17320	19400	
	18560	17960	
	18600	18760	
	17900	18900	
	18600	18420	
	18200	18000	
	420960	18280	
		182440	
		457300	

56.2  
 26100  
 2315  
 2950  
 2778  
 1720

68.4  
 121700  
 2278  
 3920  
 2704

6.4  
 30000  
 2728  
 2220

420960  
 457300  
 878260

478  
 15768  
 178146300  
 4302  
 3290  
 2868  
 4120

19  
 115  
 420960

20  
 182440  
 457300

$485 \overline{) 47800} \begin{matrix} 98.5 \\ 2700 \\ 2125 \end{matrix}$ 
 $500 \overline{) 1500} \begin{matrix} 3 \\ 59 \end{matrix}$

Moisture 3%

passing  $\frac{1}{4}$ " 98.5%  
 Retained No. 10 = 88  
                   " 20 = 112 = 71.9%  
                   " 50 = 232 = 57.7%  
 passing " 50 .44 = 9.2%

$478 \overline{) 34400} \begin{matrix} 71.9 \\ 3346 \\ 940 \\ 478 \\ 610 \end{matrix}$

$498 \overline{) 27600} \begin{matrix} 57.7 \\ 2396 \\ 2700 \\ 3346 \\ 3540 \end{matrix}$

$478 \overline{) 4400} \begin{matrix} 9.2 \\ 4302 \\ 980 \end{matrix}$

5-28-28  $\frac{478}{610}$

5-28-28  $2\frac{1}{2}$ " 100%  
                   "  $2\frac{1}{2}$ " 99%  
                   " 1" 44%  
                   "  $\frac{1}{2}$ " 7.5%  
                   "  $\frac{1}{4}$ " 1.9%  
                   "  $\frac{1}{8}$ " .6%

$36 \overline{) 5-28-28} \begin{matrix} 180 \\ 10 \\ 190 \end{matrix}$   
 Round  
 $36 \overline{) 300} \begin{matrix} 8 \\ 30 \end{matrix}$   
 $36 \overline{) 120} \begin{matrix} 3 \\ 120 \end{matrix}$

$2\frac{1}{2}$ " 100%  
 2" 98.1%  
 1" 50.0%  
 $\frac{1}{2}$ " 8.8%  
 $\frac{1}{4}$ " 2.5%  
 $\frac{1}{8}$ " .6%

$42 \overline{) 39.25} \begin{matrix} 360 \\ 325 \\ 3300 \\ 88 \end{matrix}$   
 $40 \overline{) 3500} \begin{matrix} 300 \\ 300 \end{matrix}$

5-29-28

500 | 18000  
 150  
 300

61.94  
 18  
 487  
 473

Mixture 3.6%  
 passing 1/4" 98.1%  
 Retained 70 10

5.0  
 4.8  
 5.5  
 3.3  
 5.1  
 23.7

" " " 20 = 64.2%  
 " " " 50 = 56.1%  
 passing 150 = 8.8%

8 pcs. 5/8" 3/5 ft. Long.  
 24" 1/2" 4 " "  
 4 " 1/2" 8 " "  
 Every 30 ft.

96.1  
 47300  
 4338  
 3940  
 3856  
 64

49  
 2900 | 14400  
 11600  
 28400

(359.08 lbs per 100 ft)

4.8  
 2900 | 14000  
 11600  
 24600  
 23200  
 1480

173  
 692  
 439  
 280

57  
 164  
 111  
 104

5.5  
 2900 | 16120  
 14500  
 16120  
 2700

38  
 96710  
 8700  
 9713

104  
 114  
 104  
 125.4 | 4.64  
 108  
 174  
 1420

5.1  
 2700 | 14820  
 14500  
 3200

760

265 Grams

500 / 5.00

32  
2  
160  
165  
20  
185

18480	18680	
18360	17640	
18000	18700	18120
18040	18160	18200
17360	18440	17240
18000	18200	18640
18520	18440	18000
18200	18400	90200
18440	18000	
17840	17000	
17880	18400	
18400	18600	2500
18680	18100	
17800	16860	
18000	18200	
18600	18820	
18080	17680	
17640	18300	
17800	18140	
18360	18300	
18240	18200	
18400	381260	
18440	417560	
18200	798820	
417560	90200	
	889620	

355 yds. rock  
889020  
7500  
13902  
12500  
14620

98  
 27 5-22-28 481 1469 97.5%  
 4329 500  
 3610 481  
 336 12  
 35% 467  
 2070 391  
 19

Moisture 3.5%  
 passing 1/4" 97.5%  
 Retained 710 10 = 90  
 " " 20 = 94 = 64.2%  
 " " 50 = 207 = 60.3%  
 passing " 50 = 26 16.2%  
 467 469 28 3000  
 16 28 14  
 1600

2 1/2" 100%  
 2" 97.5%  
 1" 40.7%  
 1/2" 62%  
 1/4" 1.3%  
 1/8" .6%  
 5-23-28  
 39 1500 2910  
 39 2014  
 110 2070  
 98 3800  
 52 300  
 39 3000 195 380  
 50 21  
 15  
 38  
 39 1500 118  
 330  
 312  
 18

Moisture 2.8%  
 passing 1/4" 96.5%  
 Retained 710 10 = 110

8.5  
 469 40000  
 3752  
 2480  
 " " 20 = 108 = 67.8%  
 " " 50 = 210 = 53.3%  
 passing " 50 = 40 = 85%  
 468 486  
 12  
 469  
 469 318000  
 2814  
 3660  
 3283  
 3770 469 250000  
 2245  
 1520  
 1907  
 1930  
 510 610  
 14 2.8  
 500 1400  
 1000  
 400  
 486  
 469  
 486 46900  
 4274  
 3160  
 2916  
 2440

1% Clay

2100 SACKS CEMENT 5-19-28

5-21-28

2 1/2" 100%  
 2" 99.0%  
 1" 48.7%  
 1/2" 7.5%  
 1/4" 1.3%  
 1/8" .6%

48.0  
 31.5  
 16.5  
 48.0  
 40 119.50  
 16.0  
 8.50  
 92.0  
 40  
 163 51.00  
 51.00  
 27.78  
 27.78  
 27.64  
 16.5  
 16.5  
 16.5  
 16.5  
 16.5  
 16.5

5-21-28

Moisture 5.3%  
 passing 1/4" 98.3%  
 Retained 70.10 = 106  
 " " 20 = 96 = 68.0%  
 " " 50 = 219 = 56.1%  
 passing " 50 = 41 = 8.8%  
 41  
 462

49.20  
 23.50  
 18.52  
 49.80  
 41.67  
 81.30  
 39000  
 2000  
 4000  
 98.3  
 47746300.0  
 4239  
 3910  
 3768  
 142.0  
 56.1  
 463 26000  
 2315  
 2850  
 2778  
 78

2325 TFR. 8.8%  
 214 Batches 3784  
 CEMENT 2715 SX. 5-21-28 3960

108  
 216  
 463 26000  
 2315  
 2850  
 2778  
 78

5-22-28

2 1/2" 100%  
 2" 97.5%  
 1" 50.0%  
 1/2" 7.5%  
 1/4" 1.3%  
 1/8" .6%

300  
 98.5  
 3900  
 360  
 360  
 360  
 280  
 200.0  
 200.0  
 40 200.0  
 200.0  
 40 11.50  
 11.50

1330 sand  
 1942



R.I. 345753

R.I. 133119

5-18-28

$$\begin{array}{r} 500 \overline{) 2200} \\ \underline{2000} \\ 2000 \end{array}$$

$$\begin{array}{r} 478 \\ 478 \\ \hline 478 \end{array}$$

$$\begin{array}{r} 610 \\ 588 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 991 \\ 478 \overline{) 474000} \\ \underline{47800} \\ 4380 \end{array}$$

Moisture 4.4%  
 passing 1/4" 99.1%

Retained No. 10 = 101

" " 20 = 112 = 68.9%

" " 50 = 215 = 54.2%

passing " 50 =  $\frac{42}{470} = 8.8\%$

$$\begin{array}{r} 474 \overline{) 32700} \\ \underline{2844} \\ 4260 \\ \underline{3792} \\ 4680 \end{array}$$

$$\begin{array}{r} 4380 \\ 4302 \\ \hline 780 \end{array}$$

$$\frac{34}{170}$$

225 more cement

$$\begin{array}{r} 474 \overline{) 4206.0} \\ \underline{3792} \\ 4080 \end{array}$$

$$\begin{array}{r} 474 \overline{) 25700} \\ \underline{2370} \\ 2600 \\ \underline{1896} \\ 1040 \end{array}$$

75  
 960  
 930  
 1030  
 1200  
 1600

2 1/2" 100% 5-18-28

2" 99%

1" 43%

1/2" 7.5%

1/4" 1.9%

1/8" .6%

$$\begin{array}{r} 40 \\ 140 \overline{) 1500} \\ \underline{1400} \\ 100 \end{array}$$

$$\begin{array}{r} 7.5 \\ 300 \\ \underline{225} \\ 75 \end{array}$$

5-18-28

Moisture 3.6%

passing 1/4" 98%

Retained No. 10 = 129

" " 20 = 105 = 63.7%

" " 50 = 196 = 50.4%

passing " 50 =  $\frac{472}{472} = 8.9\%$

$$\begin{array}{r} 25 \\ 115 \\ 500 \overline{) 15000} \\ \underline{15000} \\ 500 \\ \underline{482} \\ 472 \\ \underline{472} \\ 0 \end{array}$$

$$\begin{array}{r} 48 \\ 472 \overline{) 47200} \\ \underline{4338} \\ 3820 \\ \underline{3856} \\ 64 \end{array}$$

5-14-28

mixture 4.8%

passing 7/4" 94.7%

Retained 710.10 = 105

" " 20 = 103 = 69.2%

" " 50 = 223 = 55.9%

passing " 50 = 40 = 8.5%

610  
580  
24 4.8  
2042 4000  
2000  
1000

1076  
421

94.7  
476 | 47100.0  
4484  
2260  
1904  
3560  
3212

69.2  
471 | 32600.0  
2876  
4340  
4239  
101

55.9  
471 | 26310.0  
2350  
2800  
2350  
4500

8.5  
471 | 4000.0  
3268  
2320

Wabasha & Water  
St. Paul, Corrugating

1200 Cement

388 + 50 RT. Cylinder

sand 104.5  
Rock 187  
Cement 1560

5-15-28

1440 Cement

120 Sand

241 Rock

5-17-28

2 1/2 " 100%

2 " 99%

1 " 38%

1/2 " 7.5%

1/4 " 1.7%

1/8 " .6%

4029  
38  
40 | 1500  
120  
300

36  
75  
40 | 3000  
280  
200

3900  
3775  
25

2142

2100 = 2060 stone

1366 = 1360 sand

100 100 98

5-15-28

Moisture 3.8%

passing 1/4" 98%

Retained No. 10 = 110

" " 20 = 98 = 66.6%

" " 50 = 217 = 54.9%

passing " 50 = 43 = 9.1%

610  
591  
19

500  
1900.6  
1500  
4000

98  
481 | 97300  
4329  
4010

666  
31 | 5000  
2898  
3120  
2839  
282  
547

473 | 26000.0  
2365  
2350  
1892  
458

40.0  
98.5  
11.0 = 9.1

40 | 200  
200

29  
40 | 11.50  
80  
43350

40 | 1.750  
160  
150

95  
40 | 3200  
360  
200

423 | 43000  
4257  
430

152  
2500 | 378,280 ✓  
2500  
12828

5-15-28

2 1/2" 100%

2" 98%

1" 43%

1/2" 9.2%

1/4" 18%

1/8" 16%

12500  
3280  
93

2500 | 233,620  
22500  
8620

111,180	4/28 - 28x
204,420	4/30 - 28 ✓ X
294,620	5-1-28 ✓
328,940	5-2-28 ✓
119,000	5-3-28 X
284,200	5-5-28 ✓
383,740	5-7-28 ✓
378,280	5-8-28 ✓
233,620	5-9-28

$\begin{array}{r} 2500 \overline{) 111,180} \\ \underline{10000} \\ 11180 \\ \underline{10000} \\ 1180 \end{array}$	$\begin{array}{r} 44 \\ \times \\ \hline 11180 \\ 10000 \\ \hline 11180 \end{array}$	$\begin{array}{r} 132 \\ 2500 \overline{) 328,940} \\ \underline{2500} \\ 7894 \\ \underline{7500} \\ 3940 \\ \underline{48} \end{array}$
---	--	---

$\begin{array}{r} 2500 \overline{) 204,420} \\ \underline{20000} \\ 4420 \end{array}$	$\begin{array}{r} 81 \\ \times \\ \hline 20000 \\ 4420 \\ \hline 204420 \end{array}$	$\begin{array}{r} 119 \\ 2500 \overline{) 119,000} \\ \underline{10000} \\ 19000 \\ \underline{20400} \end{array}$
---	--	--

$\begin{array}{r} 2500 \overline{) 294,620} \\ \underline{2500} \\ 4962 \\ \underline{2500} \\ 19620 \\ \underline{17500} \\ 2120 \end{array}$	$\begin{array}{r} 118 \\ \times \\ \hline 2500 \\ 4962 \\ \hline 294620 \end{array}$	$\begin{array}{r} 114 \\ 2500 \overline{) 284,200} \\ \underline{2500} \\ 3420 \\ \underline{2500} \\ 9200 \\ \underline{7500} \\ 1700 \\ \underline{153} \end{array}$
$\begin{array}{r} 2500 \overline{) 383,740} \\ \underline{2500} \\ 13374 \\ \underline{12500} \\ 8740 \end{array}$	$\begin{array}{r} 153 \\ \times \\ \hline 2500 \\ 13374 \\ \hline 383740 \end{array}$	$\begin{array}{r} 8740 \end{array}$



5-8-28

Moisture 5.4%  
Amount passing 1/4" 99.17%  
Retained 770.10 / 104

" " 20 = 104 = 68%

" " 50 = 215 = 54.8%

passing 50 = 42 = 8.9%

500  
27  
473  
4  
469

610  
583  
27  
54

500 | 2700.0  
2500  
2000

469 | 31900.0  
2814  
3760  
3752  
81

469 | 4200.0  
3752  
4480

473 | 46900.0  
4257  
4330  
4257  
730

469 | 25700.0  
2345  
4250  
1876  
3940

5-9-28

Moisture 5%  
passing 1/4" 99%  
Retained 770 10 = 106

" " 20 = 103 = 67.4%

" " 50 = 214 = 53.1%

passing 50 = 45 = 9.3%

610  
585  
25  
5  
500 | 2500  
475  
470  
98  
424 | 47000  
4275  
4250

103  
317  
317  
674  
470 | 31700  
2820  
3500  
3290  
2100

470 | 25900  
2350  
2400  
2350  
50  
93  
470 | 45000  
4330  
1700

Moisture 4.6%

(469)

passing 74 98.3%

retained 710- 10 129

" " 20 102 = 61.4%

" " 50 195 49.6%

passing " 50 38 8.1%

465

610  
587  
23

500 | 23000  
460  
2000  
3000

103  
195  
298

1040  
95  
1135

500  
23  
477  
469

469 | 29800.0  
2914  
660  
469  
1916

227  
1135

477 | 46900.  
4993  
3976  
3816  
1540

195  
38  
233  
496  
23300.0  
1876  
4540  
4221  
3190

469 | 3800.0  
3752  
480

21 | 2090  
189  
200  
194  
110  
105

5-5-28

29

40 | 12.50  
40 | 16.00  
40 | 10.00

40 | 4.00  
40 | 11.00  
40 | 1.70

2 1/2"	100%
2"	99%
1"	40%
1/2"	12%
1/4"	2.1%
1/8"	.6%

5-7-28

3 1/2"	100%
2 1/2"	99%
2"	44%
1"	9%
1/2"	2.3%
1/4"	.6%

40.0  
22.5  
17.5

44  
40 | 17.50  
160  
150  
.05  
40 | 2.00  
20.0  
10.28

5-8-28

2 1/2"	100%
2"	99%
1"	51%
1/2"	11.2%
1/4"	1.3%
1/8"	.6%

40 | 1.500  
1.22  
300  
01.2  
40 | 1.500  
40  
1.20  
40.0  
19.5  
20.5  
40.0  
35.5  
4.5

40 | 51.2  
20.500  
2.00  
50  
40 | 4.500  
40  
50  
40  
100

40 | 1.8  
1.500  
40  
100

40 | 1.500  
40  
1.500  
40  
1.500

4 Men and truck spreading  
 soil from station 151

Three men putting up signs  
 three men putting in Culv. at  
 186 +

Three men cutting trees at 22  
 station 300 - 303

5-5-28

	5.2			
	500   2600.0	610		500
	2500	584		26
% moisture	1000	26		484
		5.2%		468
% passing 1/4"		98.7%		
retained 70-10-148				
" 70-20-102			= 59.8%	
" 50-178			= 46.1%	
passing " 50-39			= 8.3%	
		468		

98.7				
474   46800.0	102	468	21700.0	46.1
4266	178		1872	
4140	280		2980	
3792	598		2908	
3480	28000		83720	
	2340		3900.0	
	4600		3744	
	4212		1560	
	3880			

$$\begin{array}{r} 3.8 \\ 500 \overline{) 1900.0} \\ \underline{1500} \\ 4000 \end{array}$$

$$\begin{array}{r} 10 \\ 591 \\ \underline{19} \end{array}$$

$$\begin{array}{r} 481 \\ \underline{6} \\ 475 \end{array}$$

5-2-28

weight of sand 481  
 moisture 3.8%  
 passing  $\frac{1}{4}$ " retained  
6 grams = 98.7%  
 weight sand 475  
 retained No. 10 = 107  
 " " 20 = 107 = 68.4 passing  
 " " 50 = 218 = 54.5 "  
 passing No. 50 = 40 = 8.4 "  

$$\underline{472}$$

$$\begin{array}{r} 98.7 \\ 481 \overline{) 47500.0} \\ \underline{4329} \\ 4210 \\ \underline{3848} \\ 3620 \end{array}$$

$$\begin{array}{r} 2\frac{1}{2}" \quad 100\% \\ 2" \quad 99\% \\ 1" \quad 39\% \\ \frac{1}{2}" \quad 25\% \checkmark \\ \frac{1}{4}" \quad 2.7\% \checkmark \\ \frac{1}{8}" \end{array}$$

5-2-28

$$\begin{array}{r} 69 \\ 40 \overline{) 2750} \\ \underline{240} \\ 350 \end{array}$$

$$\begin{array}{r} 700\% \\ 40 \overline{) 2800} \\ \underline{280} \\ 2520 \end{array}$$

$$\begin{array}{r} 25 \\ 40 \overline{) 1000} \\ \underline{80} \\ 2000 \\ \underline{1600} \\ 400 \\ \underline{400} \\ 0 \end{array}$$

$$\begin{array}{r} 35 \\ 40 \overline{) 1300} \\ \underline{120} \\ 200 \end{array}$$

$$\begin{array}{r} 40 \\ 27 \\ \underline{13} \end{array}$$

passing 5-2-28

2 1/2"	100%
2"	99%
1"	37%
1/2"	3.7%
1/4"	1.2%
1/8"	.6%

$$\begin{array}{r}
 99 \\
 40 \overline{) 39.50} \\
 \underline{360} \\
 350
 \end{array}$$

1/2  
25  
38.5  
39.5

$$\begin{array}{r}
 62 \\
 40 \overline{) 25.00} \\
 \underline{240} \\
 100
 \end{array}$$

$$\begin{array}{r}
 01.2 \\
 40 \overline{) .500} \\
 \underline{40} \\
 100
 \end{array}$$

$$\begin{array}{r}
 39.50 \\
 25.00 \\
 \hline
 14.50
 \end{array}$$

$$\begin{array}{r}
 00.6\% \\
 40 \overline{) 1.230} \\
 \underline{240}
 \end{array}$$

$$\begin{array}{r}
 36 \\
 40 \overline{) 14.50} \\
 \underline{120} \\
 250
 \end{array}$$

$$\begin{array}{r}
 40.0 \\
 37.1 \\
 \hline
 37.1\% \\
 40 \overline{) 15.00} \\
 \underline{120} \\
 300
 \end{array}$$

$$\begin{array}{r}
 40.0 \\
 38.5 \\
 \hline
 1.2 \\
 40 \overline{) 1.500} \\
 \underline{120} \\
 300
 \end{array}$$



# Standard Memorandum Book

Ruled \$ and Cts.	Ruled Faint	Ruled \$ and Cts. Indexed Through	Size	No. of Leaves
6310	6311	6310 $\frac{1}{2}$	5 $\frac{7}{8}$ x 3 $\frac{5}{8}$	48
6312	6313	6312 $\frac{1}{2}$	"	96
6316	6317	6316 $\frac{1}{2}$	6 $\frac{3}{8}$ x 4 $\frac{1}{8}$	48
6318	6319	6318 $\frac{1}{2}$	"	96
6320		6320 $\frac{1}{2}$	"	144
6322	6323	6322 $\frac{1}{2}$	7 $\frac{3}{8}$ x 4 $\frac{5}{8}$	48
6324	6325	6324 $\frac{1}{2}$	"	96
6326		6326 $\frac{1}{2}$	"	144
6328	6329	6328 $\frac{1}{2}$	8 $\frac{1}{8}$ x 5 $\frac{1}{8}$	48
6330	6331	6330 $\frac{1}{2}$	"	96
6332		6332 $\frac{1}{2}$	"	144

Specify by Number, the Book desired

Made in U. S. A.

B&PN<sup>o</sup> 6322

892 sacks - 7106 =

8 pcs.  $\frac{5}{8}$ " 31.5 ft Long.

24"  $\frac{1}{2}$ " 4 " "

4"  $\frac{1}{2}$ " 8 " "

Sin every 30 ft.

359.08 LBS. per 30 ft.

WT. PER. CU. FT. COMPACTED = WT. OF ROCK

$\div 21$

1325

1996

29

REINFORCING STEEL  
 COLUMN SPIRALS  
 SECURITY INSERTS  
 WIRE MESH  
 SYMONS COLUMN CLAMPS  
 SYMONS BAR TIES  
 UNIVERSAL FORM CLAMPS  
 BAR SUPPORTS AND SPACERS  
 REMOVABLE METAL FLOOR TILE

# T. F. McCORMICK

MANUFACTURERS AGENT

BUILDING SPECIALTIES

PIONEER BUILDING

PHONE GARFIELD 3658

ST. PAUL, MINN.

DISTRICT  
 SALES AGENT  
 AMERICAN SYSTEM OF  
 REINFORCING  
 National Concrete Metal  
 Forms Corporation  
 "D. & R." SYSTEM  
 FORMS FOR FIREPROOF  
 FLOORS

June 25, 1928.

Shipments of reinforcing steel for pavement  
 Fielding & Shepley work, exclusive of culverts and surface drains.

April 11, 1928	Car	CM&STP 303121 - 5/8" bars	27,024 lbs.
" 21, 1928	"	CM&STP 305876 - 1/2" "	43,770 "
" 25, 1928	"	NYC 346626 - 5/8" "	98,460 "
" 26, 1928	"	B/4 70617 - 5/8" "	112,430 "
May 24, 1928	"	NYC 329939 - 1/2" "	43,513# "
" 19, 1928	"	CM&STP 303879 - 5/8" "	36,383 "
" 26, 1928	"	NW 116423 - 5/8" "	<u>121,528</u> "
			483,108 lbs

483,108

483,108.0  
 189,319.9  
 293,788.1  
 27,024.1  
 266,764.1

189,319.9  
 4,200  
 193,519.9

483,108.0  
 193,519.9  
 289,588.1