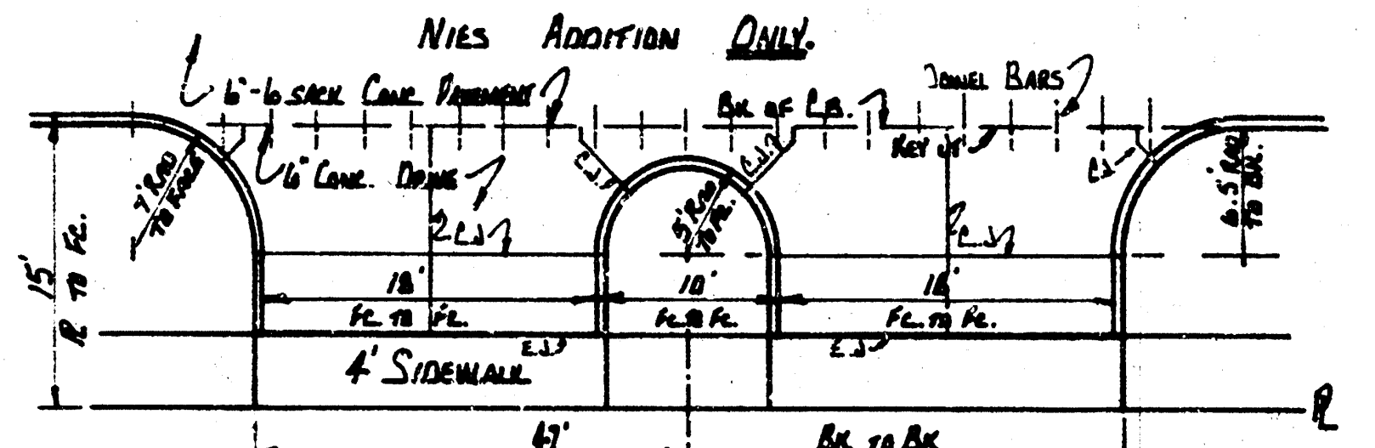
Survey: Krul Bk: DLK 137 & DLK 146
Plan: Ukena
Exc. Ukena
Checked: ______

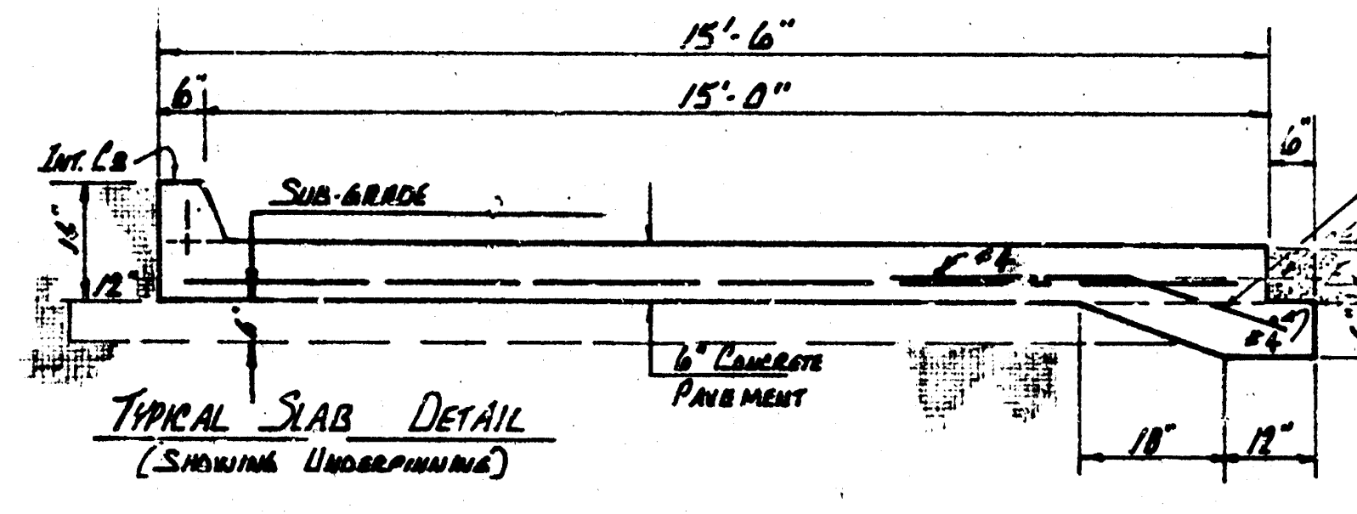
Typical Double Drive Detail

To be used on Lots 3.4.5 & 6
Nies Addition Only.


6"-6 sack Conc Pavement
Bk of C.B.
Dowel Bars
6" Conc. Drive
Key Jt
C.J.
E.J.
7' Rad to F.C.
5' Rad to F.C.
6.5' Rad to Bk.
15' ℄ to F.C.
18' Fc to Fc.
10' Fc to Fc.
18' Fc to Fc.
4' Sidewalk
47' Bk to Bk
Center of Lot
℄

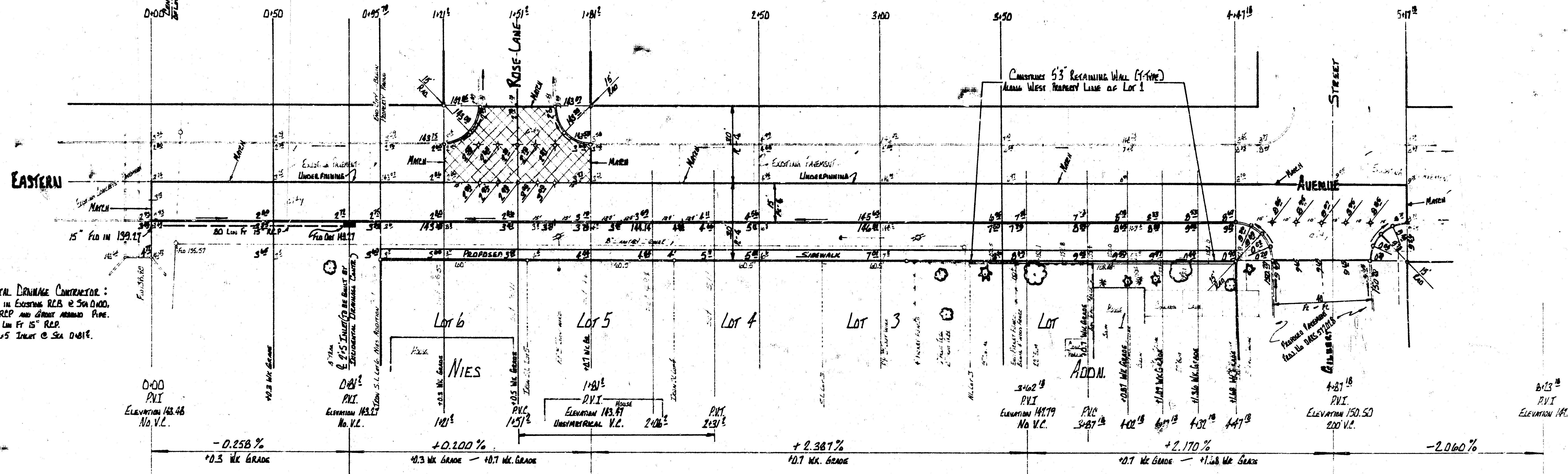
BM 148.94 "G" in Globe S-end ret. S.W. Cor. Gilbert & Eastern (2½ N of S end)
BM 143.11 "G" in Globe WL Eastern N-CB Rose Lane 1955

Scale 1"=10'


15'-6"
15'-0"
6"
6"
Int. C.B.
Sub-grade
18"
12"
#4 Bars - 4'-6" Long @ 4'-6" Ctrs (Field Bend)
Existing Steel
Existing Pavt.
#4
6" Concrete Pavement
6"
18"
12"

Typical Slab Detail
(Showing Underpinning)

Note: Bid item for Lin. Ft. Underpinning to include cost of concrete & Excav. Steel to be paid for by Lbs. of Reinf. Steel. Tie new steel to existing steel.


0+00
0+50
0+95.70
1+21
1+51
1+81
2+50
3+00
3+50
4+47.18
5+17.18
Rose Lane
Eastern
Avenue
Street
Gilbert
Match
Existing Easement Underpinning
Construct 5'3" Retaining Wall (T-Type) along West Property Line of Lot 1
Proposed Sidewalk
15" Flo in 139.27
Flo 135.57
Flo 138.80
80 Lin Ft 15" RCP
Lot 6
Lot 5
Lot 4
Lot 3
Lot 1
Nies
Addn.
0+00 P.V.I. Elevation 143.48 No V.C.
0+81 P.V.I. Elevation 143.27 No V.C.
1+21 P.V.C.
1+51 P.V.C.
1+81 P.V.I. Elevation 143.67 Unsymmetrical V.C.
2+06
2+31 P.V.T.
3+62 P.V.I. Elevation 143.79 No V.C.
4+87 P.V.I. Elevation 150.50 200 V.C.
5+13 P.V.I. Elevation 149.32
-0.258 %
+0.3 Wk Grade
+0.200 %
+0.3 Wk Grade — +0.7 Wk Grade
+2.387 %
+0.7 Wk Grade
+2.170 %
+0.7 Wk Grade — +1.68 Wk Grade
-2.060 %

Note to Incidental Drainage Contractor:
1. Knock hole in existing RCB @ Sta 0+00, Install 15" RCP and grout around pipe.
2. Install 80 Lin Ft 15" RCP.
3. Construct 2×5 Inlet @ Sta 0+81.

"Earthwork"

Excavation Property	Excavation City	Compacted Fill Property	Compacted Fill City
467.2 Cu Yds	189.2 Cu Yds	0.3 Cu Yds	0.7 Cu Yds
46.7 +10%	18.9 +10%	0.0 +10%	0.1 +10%
513.9 Total	208.1 Total	0.3 Total	0.8 Total

Cement & Lime Treated Subgrade 610 Sq Yds 360 Sq Yds.

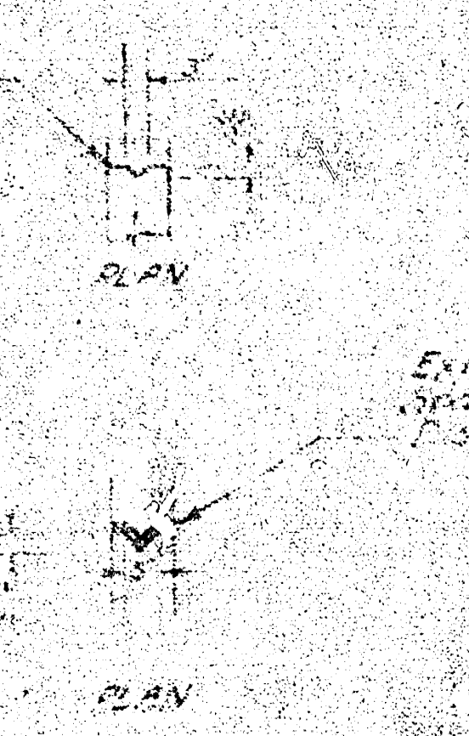
General Notes

1. Type of subgrade treatment shall be as determined by the Field Engineer. Subgrade treatment may consist of lime treatment, cement treatment, subgrade modification, or any combination of these.
2. Contractor to clear and grade parking for proposed sidewalk. Sidewalk to be built by "others"

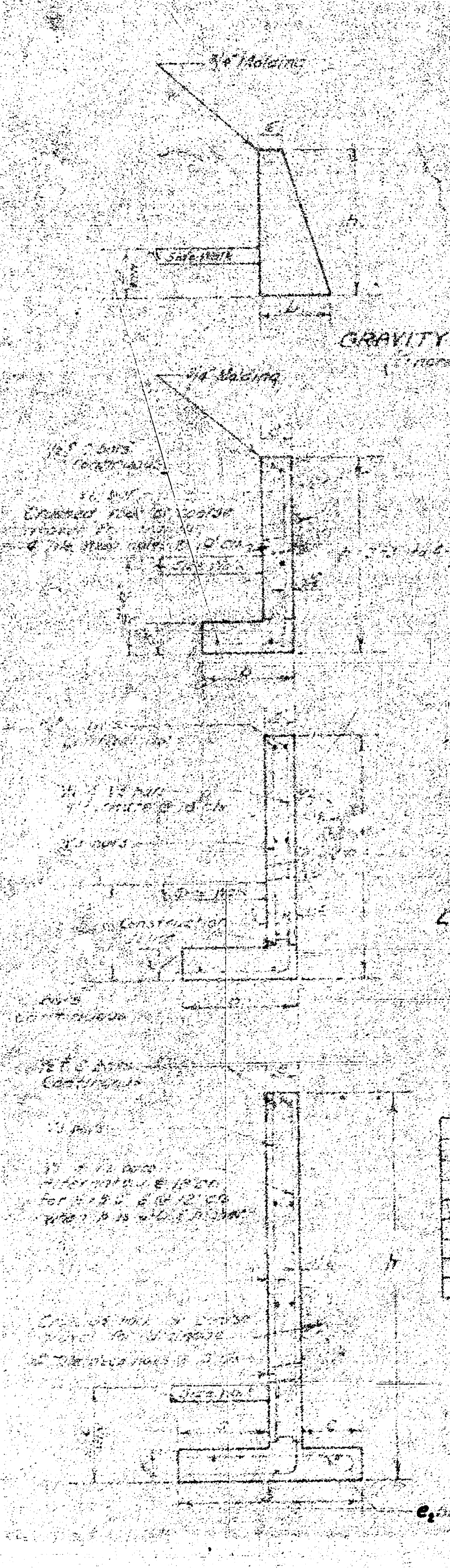
East ½ Eastern Avenue
95.7' S of SL Nies Addn — NL Gilbert St.
15' Concrete & Curb

R.W. Linn City Engineer
City of Wichita, Kansas
Project No DAK5 572028 Date: April 1973

Construct Tar Paper & Keyed Construction Joints @ 20' Intervals Discontinue Reinf. Steel in L & T-Type Walls



Expansion Joints @ 100' Maximum Spacing. 1" Premolded Expan. Jt. Material Discontinue Reinf. Steel



GRAVITY TYPE
(Concrete)

DIMENSIONS		Conc / Ft
h	b	Cu. Yds.
1'-9"	11"	.046
2'-0"	13"	.059
2'-3"	15"	.073
2'-6"	17"	.089
2'-9"	18½"	.104
3'-0"	20"	.120

L-TYPE WALLS
(Reinf. Concrete)

DIMENSIONS		PER LIN. FT OF WALL	
h	b	# Reinf. Steel	Cu Yds Conc
3'-3"	1'-6"	4.43	.101
3'-6"	2'-0"	4.76	.120
3'-9"	2'-0"	4.90	.126
4'-0"	2'-0"	5.00	.132
4'-6"	2'-6"	9.00	.13[illegible]
4'-9"	2'-9"	9.18	.16[illegible]
5'-0"	3'-0"	9.35	[illegible]

T-TYPE WALL
(Reinf. Concrete)

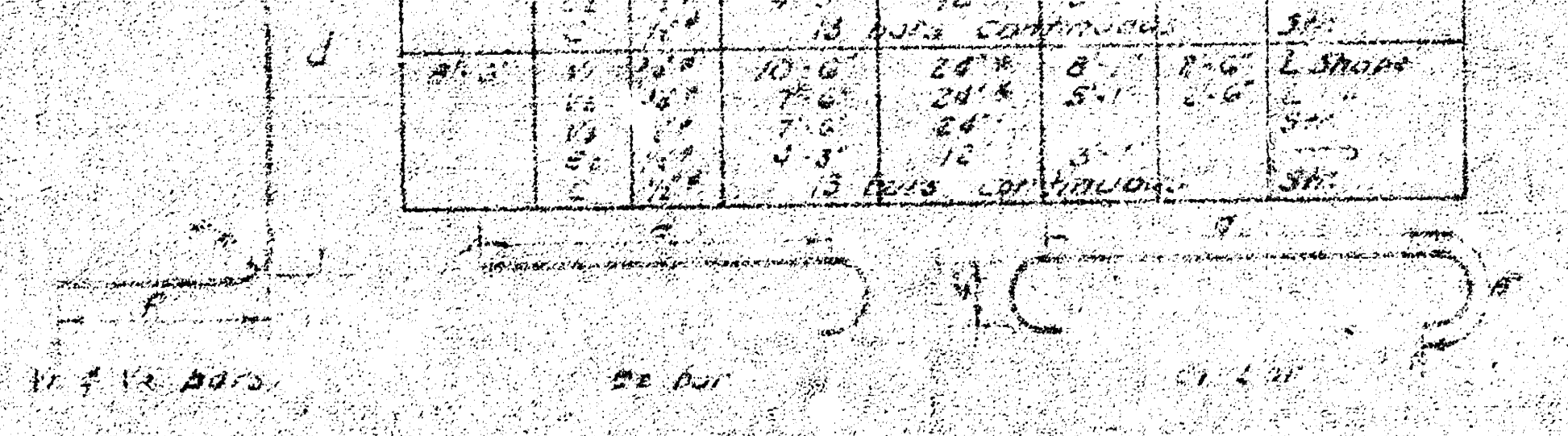
DIMENSIONS				PER LIN. FT OF WALL	
h	b	a	c	# Reinf. St.	Cu Yds Conc
5'-6"	2'-9"	1'-0"	1'-0"	[illegible]	.202
6'-0"	3'-3"	1'-3"	1'-3"	[illegible]	.223
6'-6"	3'-3"	1'-3"	1'-3"	[illegible]	.243
7'-0"	[illegible]	[illegible]	1'-3"	[illegible]	.275
7'-6"	4'-0"	2'-0"	1'-3"	25.13	.283
8'-0"	4'-6"	2'-0"	1'-3"	[illegible]	.303
8'-6"	5'-0"	2'-6"	1'-3"	[illegible]	.317

REINF. STEEL SCHEDULE – L-TYPE RET. WALLS

h	bar	size	Length	Spacing	d	f	Remarks
[illegible]	V1	½"#	[illegible]	[illegible]	[illegible]	1'-[illegible]	L Shape
	C	½"#	3 Horiz. bars continuous				Str.
[illegible]	V1	½"#	4'-3"	18"	[illegible]	[illegible]	L Shape
	C	½"#	3 Horiz. bars continuous				Str.
[illegible]	V1	½"#	5'-0"	18"	[illegible]	1'-9"	L Shape
	C	½"#	4 bars continuous				Str.
[illegible]	V1	½"#	5'-3"	[illegible]	[illegible]	[illegible]	L Shape
	C	½"#	4 bars continuous				Str.
[illegible]	V1	½"#	6'-3"	[illegible]	[illegible]	[illegible]	L Shape
	V2	½"#	5'-0"	36"*	[illegible]	[illegible]	L
	V3	½"#	[illegible]	[illegible]			Str.
	C	½"#	5 bars continuous				Str.
[illegible]	V1	½"#	[illegible]	[illegible]	[illegible]	[illegible]	L Shape
	V2	½"#	[illegible]	[illegible]			L
	V3	½"#	[illegible]	24"			Str.
	C	½"#	5 bars continuous				Str.
[illegible]	V1	½"#	6'-3"	36"*	[illegible]	[illegible]	L Shape
	V2	½"#	5'-[illegible]	36"*	[illegible]	[illegible]	L
	V3	½"#	3'-0"	24"			Str.
	C	½"#	6 bars continuous				Str.
*Alternate V1 & V2 @ 18" c/s							

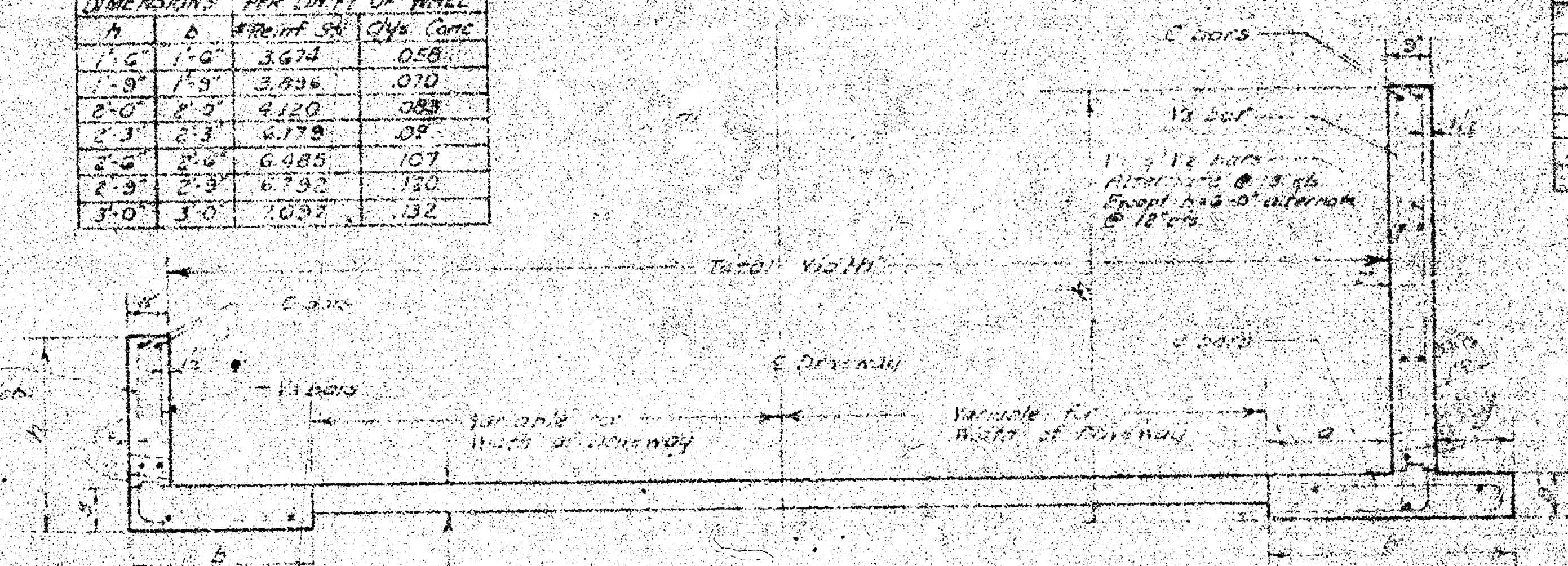
T-TYPE RETAINING WALL

h	bar	size	Length	Spacing	d	f	Remarks
5'-6"	V1	½"#	[illegible]	36"*	5'-[illegible]	1'-[illegible]	L Shape
	V2	½"#	4'-3"	36"*	3'-[illegible]	[illegible]	L
	V3	½"#	4'-6"	24"			Str.
	e2	½"#	3'-0"	18"	2'-2"		
	C	½"#	9 bars continuous				Str.
6'-0"	V1	½"#	7'-3"	24"*	[illegible]	1'-8"	L Shape
	V2	½"#	5'-0"	24"*	3'-3"	1'-8"	L
	V3	½"#	5'-0"	24"			Str.
	e2	½"#	3'-6"	18"	2'-0"		
	C	½"#	10 bars continuous				Str.
6'-6"	V1	½"#	7'-9"	24"*	6'-2"	1'-8"	L Shape
	V2	½"#	5'-0"	24"*	3'-[illegible]	1'-8"	L
	V3	½"#	5'-6"	24"			Str.
	e2	½"#	3'-6"	18"	2'-10"		
	C	½"#	10 bars continuous				Str.
7'-0"	V1	½"#	9'-0"	24"*	[illegible]	2'-6"	L Shape
	V2	½"#	6'-0"	24"*	3'-7"	2'-6"	L
	V3	½"#	6'-0"	24"			Str.
	e2	½"#	4'-3"	12"	3'-7"		
	C	½"#	12 bars continuous				Str.
7'-6"	V1	½"#	9'-6"	24"*	[illegible]	[illegible]	L Shape
	V2	½"#	6'-6"	24"*	4'-1"	2'-6"	L
	V3	½"#	6'-6"	24"			Str.
	e2	½"#	4'-3"	12"	3'-[illegible]		
	C	½"#	13 bars continuous				Str.
8'-0"	V1	½"#	10'-0"	24"*	[illegible]	2'-6"	L Shape
	V2	½"#	7'-0"	24"*	[illegible]	2'-6"	L
	V3	½"#	7'-0"	24"			Str.
	e2	½"#	4'-3"	12"	3'-[illegible]		
	C	½"#	13 bars continuous				Str.
8'-6"	V1	½"#	10'-6"	24"*	8'-[illegible]	2'-6"	L Shape
	V2	½"#	7'-6"	24"*	5'-1"	2'-6"	L
	V3	½"#	7'-6"	24"			Str.
	e2	½"#	4'-3"	12"	3'-[illegible]		
	C	½"#	13 bars continuous				Str.



L1-TYPE RETAINING WALL FOR DRIVEWAYS

DIMENSIONS		PER LIN. FT OF WALL	
h	b	# Reinf. St.	C/Ys Conc
1'-6"	1'-6"	3.674	.058
1'-9"	1'-9"	3.896	.070
2'-0"	2'-0"	4.120	.083
2'-3"	2'-3"	6.179	.09
2'-6"	2'-6"	6.485	.107
2'-9"	2'-9"	6.792	.120
3'-0"	3'-0"	7.057	.132


C bars
V2 bar
V1 & V2 bars Alternate @ 18" c/s Except h=6'-0" alternate @ 12" c/s
Total Width
V1 & V2 bars Alternate @ 18" c/s
C bars
V3 bars
℄ Driveway
Variable for Width of Driveway
Variable for Width of Driveway
e2 bars
h
b
a
9"

T1-TYPE RETAINING WALL FOR DRIVEWAYS

DIMENSIONS				PER LIN. FT WALL	
h	b	a	c	# Reinf. St.	C/Ys Conc
3'-6"	3'-3"	1'-3"	1'-3"	9.213	.159
4'-0"	3'-9"	1'-6"	1'-6"	9.809	.185
4'-6"	4'-0"	1'-9"	1'-6"	11.085	.206
5'-0"	4'-3"	2'-0"	1'-6"	11.658	.226
5'-6"	4'-6"	2'-3"	1'-6"	12.867	.247
6'-0"	4'-9"	2'-6"	1'-6"	14.147	.266

REINF. STEEL SCHEDULE
L1-TYPE RETAINING WALL FOR DRIVEWAYS

h	bar	size	Length	Spacing	d	f	Remarks
1'-6"	V1	½"#	2'-3"	18"	1'-1"	1'-3"	L Shape
	C	½"#	4 Horiz. bars continuous				Straight
1'-9"	V1	½"#	2'-9"	18"	1'-4"	1'-6"	L Shape
	C	½"#	4 Horiz. bars continuous				Str.
2'-0"	V1	½"#	3'-3"	18"	1'-7"	1'-9"	L Shape
	C	½"#	4 bars continuous				Str.
2'-3"	V1	½"#	3'-3"	36"*	1'-10"	2'-0"	L Shape
	V2	½"#	3'-0"	36"*	1'-1"	2'-0"	L
	V3	½"#	2'-0"	24"			Str.
	C	½"#	6 Horiz. bars continuous				"
2'-6"	V1	½"#	4'-3"	36"*	2'-[illegible]	2'-3"	L Shape
	V2	½"#	3'-[illegible]	36"*	1'-4"	2'-3"	L
	V3	½"#	3'-3"	24"			Str.
	C	½"#	6 bars continuous				
2'-9"	V1	½"#	4'-9"	36"*	2'-4"	2'-6"	L Shape
	V2	½"#	4'-0"	36"*	1'-7"	2'-6"	L
	V3	½"#	2'-6"	24"			Str.
	C	½"#	6 bars continuous				
3'-0"	V1	½"#	5'-3"	36"*	2'-7"	2'-9"	L Shape
	V2	½"#	4'-6"	36"*	1'-10"	2'-9"	L
	V3	½"#	2'-9"	24"			Str.
	C	½"#	6 bars continuous				
*Alternate V1 & V2 @ 18" c/s							

Weep Holes

T1-TYPE RETAINING WALL FOR DRIVEWAYS

h	bar	size	Length	Spacing	d	f	Remarks
3'-6"	V1	½"#	5'-0"	36"*	3'-5"	1'-8"	L Shape
	V2	½"#	3'-6"	36"*	1'-11"	1'-8"	L
	V3	½"#	[illegible]	24"			Str.
	e2	½"#	3'-6"	18"	2'-10"		
	C	½"#	7 bars continuous				Str.
4'-0"	V1	½"#	5'-6"	36"*	3'-8"	1'-11"	L Shape
	V2	½"#	4'-3"	36"*	2'-5"	1'-11"	L
	V3	½"#	3'-9"	24"			Str.
	e2	½"#	3'-10"	18"	3'-2"		
	C	½"#	7 bars continuous				Str.
4'-6"	V1	½"#	6'-3"	36"*	4'-2"	2'-2"	L Shape
	V2	½"#	5'-0"	36"*	2'-11"	2'-2"	L
	V3	½"#	4'-3"	24"			Str.
	e2	½"#	4'-1"	18"	3'-5"		
	C	½"#	8 bars continuous				Str.
5'-0"	V1	½"#	7'-0"	36"*	4'-8"	2'-5"	L Shape
	V2	½"#	5'-2"	36"*	3'-5"	2'-5"	L
	V3	½"#	4'-9"	24"			Str.
	e2	½"#	4'-4"	18"	3'-8"		
	C	½"#	8 bars continuous				Str.
5'-6"	V1	½"#	7'-9"	36"*	5'-2"	2'-8"	L Shape
	V2	½"#	6'-0"	36"*	3'-5"	2'-8"	L
	V3	½"#	5'-3"	24"			Str.
	e2	½"#	4'-7"	18"	3'-11"		
	C	½"#	9 bars continuous				Str.
6'-0"	V1	½"#	8'-6"	24"*	5'-8"	2'-11"	L Shape
	V2	½"#	6'-3"	24"*	3'-11"	2'-11"	L
	V3	½"#	5'-3"	24"			Str.
	e2	½"#	[illegible]	18"	4'-2"		
	C	½"#	10 bars continuous				Str.
*Alternate V1 & V2 bars							

NOTE: All excavation for retaining walls shall be included in the bid price per lin. ft. of retaining wall. The 4" Tile weep holes & crushed rock or coarse gravel for drainage shall be included in the bid price per lin. ft. of retaining wall.

ALL REINF. ST. FOR RETAINING WALL SHALL BE INCLUDED IN THE BID PRICE OF LIN. FT. RETAINING WALL

SCHEDULE OF MEASUREMENT FOR RETAINING WALLS

Gravity-Type			L-Type			T-Type		
h		Average	h		Average	h		Average
From	To	Height	From	To	Height	From	To	Height
1'-6"	2'-0"	1'-9"	3'-0"	3'-6"	3'-3"	5'-0"	5'-6"	5'-3"
2'-0"	2'-6"	2'-3"	3'-6"	4'-0"	3'-9"	5'-6"	6'-0"	5'-9"
2'-6"	3'-0"	2'-9"	4'-0"	4'-6"	4'-3"	6'-0"	6'-6"	6'-3"
			4'-6"	5'-0"	4'-9"	6'-6"	7'-0"	6'-9"
						7'-0"	7'-6"	7'-3"
						7'-6"	8'-0"	7'-9"

L1-Type			T1-Type		
h		Average	h		Average
From	To	Height	From	To	Height
1'-6"	2'-0"	1'-9"	3'-6"	4'-0"	3'-9"
2'-0"	2'-6"	2'-3"	4'-0"	4'-6"	4'-3"
2'-6"	3'-0"	2'-9"	4'-6"	5'-0"	4'-9"
			5'-0"	5'-6"	5'-3"
			5'-6"	6'-0"	5'-9"

NOTE: The [illegible] Engineer shall final measure retaining walls prior to back fill operations.

11 8 5 TL-Engr. 1-14-[illegible] ⑱