# ELEMENTARY SCHOOL ACCESS STREET

193RD STREET

GRAVEL ROAD

PROPOSED SCHOOL ENTRANCES WITH B612 CONC. CURB & GUTTER (BY OTHERS)

36' F-F

CONSTRUCT CONC. VALLEY GUTTER & 2 TRIANGULAR SECTIONS AS SHOWN

MH#3
G.L. ~~910.72~~ 910.68 16' F-F

CB#1
G.L. ~~914.55~~ 914.57
INV. ~~910.95~~ 911.02

MH#4
G.L. ~~914.55~~ 914.62
~~36~~ 34 L.F. 15" RCP CL.3 @ 0.60% 1.76

CB#2 917.27
G.L. 917.20

58 L.F. 18" RCP CL.3 @ ~~3.20%~~ 3.03
(52'+6'F.E.=24') INV. ~~904.50~~ 904.37

24 L.F. 18" RCP CL.3 @ 1.00%
(18'+6'F.E.=24') INV. ~~903.90~~ 903.92

~~24~~ 27 L.F. 15" RCP CL.3 @ ~~0.60%~~ 1.22 (18'+6'F.E.=24')
INV. ~~905.00~~ 904.92

MH#2
G.L. ~~908.25~~
NE INV. ~~904.86~~
W INV. ~~904.76~~ 904.59

~~36~~ 34 L.F. 15" RCP CL.3 @ ~~1.20%~~ 1.61

MH#1
G.L. 908.25
E INV. ~~904.33~~ 904.04
SW INV. ~~904.13~~

STA.1+00 32'R [2]

92 L.F. 15" RCP CL.3 @ ~~0.32%~~ 0.18
(80'+6'F.E.+6'F.E.=92')
E INV. ~~914.20~~ 914.08
W INV. ~~913.91~~

NOTES:
END CONC. CURB & GUTTER AT C.S.A.H. NO. 1 RADIUS POINTS WITH 2' TAPER SECTION.

MATCH PROPOSED B612 CONC. CURB & GUTTER AT SCHOOL PROPERTY LINE WITH 4' TRANSITION. VERIFY LOCATIONS & ELEVATIONS WITH FINAL SITE PLAN PRIOR TO CONSTRUCTION.

SEE SHEET 9 & 10 FOR SIGNING & STRIPING AT INTERSECTIONS WITH C.S.A.H. NO. 1.

APPROX. 80 L.F. OVERFLOW DITCH GRADING REQ'D
(4' BOTTOM, 4:1 MAX. SIDE SLOPES)

APPROX. 540 L.F. DITCH GRADING REQ'D
(4' BOTTOM @ 0.72%, 4:1 MAX. SIDE SLOPES)

SEE SHEET 10

SEE SHEET 9

66 L.F. 15" RCP CL.3 @ 1.00% (54'+6'F.E.+6'F.E.=66')
E INV. 905.00
W INV. 904.34

80 L.F. 18" RCP CL.3 @ 2.00% (68'+6'F.E.+6'F.E.=80')
E INV. ~~910.00~~ 910.06
W INV. ~~908.50~~ 908.48

INV. 905.2 = INV. 905.8

EXISTING 10" WATERMAIN

C.S.A.H. NO. 1

EXISTING BUILDING

BITUMINOUS

CHAINLINK FENCE

WATER ELEV. 902.6

EXISTING DRAINAGE EASEMENT

GAS MARKER

SIGN

DTB

DEB

PP

BB

TC913.54 TC913.32 TC911.50 TC911.90 TC912.53 TC914.40 TC915.58 TC915.32 TC918.00 TC917.57 TC918.40 TC912.13 TC917.46 TC918.45 TC910.98 TC910.64 TC912.74 TC912.64 TC920.51 TC920.51

R=20' R=30' R=50' R=40'

4 TREES 3" TREE 12" TREE

8+00 7+00 6+00 5+00 4+00

PT = 3+21.02 PC = 2+38.34 PT = 1+78.38 PC = 0+83.70

9.00 10.00 11.00 12.00

3.00

0.50 1.96

STA.1+00 32'R [2]

## RECORD PLAN APRIL 1993

| 925 | 920 | 915 | 910 | 905 | 900 |
|---|---|---|---|---|---|

913.52 913.27 913.12 912.74 911.64 910.43 909.56 909.04 908.85 909.01 909.51 910.18 910.08 911.51 911.78 912.24 912.82 913.40 913.98 914.57 914.62 915.16 915.73 916.31 916.89 917.47 918.00 918.04 917.27 918.48 918.92 919.36 919.80 920.24 920.69 920.95 921.40

50' VC M=0.28' | 150' VC M=1.54'

+1.00% TAN. GR. +5.52% -2.68% -1.16% 0.88%

EXISTING ℄ PROFILE

FINISHED ℄ GRADE

325 330 L.F. 18" RCP CL.3 @ 1.20%

1.32

261 264 L.F. 15" RCP CL.3 @ 1.20%

1.28

E INV. 906.47 906.13
S INV. 906.37

MH#4
E&S INV. 910.65
W INV. 910.43 910.42

W INV. ~~913.82~~ 913.77

+20 ℄ C.S.A.H. NO. 1 | +00 MATCH EXISTING BITUMINOUS | +75 EVC | +65 18" CULVERT | +50 PVI = 913.02 | +25 RVC | +50 PVI = 907.5 | +25 MH#3 & CB#1 | +75 BVC | +30 MH#2 | 9 +80 ℄ ACCESS STREET GB | +00 MH#4 & CB#1 | +54 ℄ 193RD STREET GB | +36 CB#2 | +50 15" CULVERT | +20 MATCH EXISTING BITUMINOUS | +00 ℄ C.S.A.H. NO. 1

13 12 11 10 9 8 7 6 5 4 3 2 1 0

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Virgil S. Hawkins
DATE 9/12/91 REG. NO. 19941


CONSULTING ENGINEERS
Maier Stewart & Associates Inc.
1959 SLOAN PLACE (612)774-6021 ST. PAUL, MINNESOTA 55117


| REVISIONS | DATE | DESCRIPTION |
|---|---|---|
| | | |

DESIGNED GG
CHECKED TJM
DRAWN GG
GRAPHIC SCALE
HORIZ. 50
VERT. 5

CITY OF ELK RIVER
STREET & STORM SEWER CONSTRUCTION
ELEMENTARY SCHOOL ACCESS

DATE AUG. 1991 | SHEET 8 OF 14 SHEETS | PROJECT NO. 230-125

ER125-8


DRAWING NUMBER
SIRCO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 6592
PERSONAL USE OF PART ON THIS SIZE
DRAWING NUMBER
MEADO.92
8