Form 413 Rev. 1959

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT-OF-WAY LINE
PRESENT ROAD R/W LINE
LIMITED ACCESS
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
STEAM RAILROAD
ELECTRIC RAILROAD
RAILROAD RIGHT-OF-WAY LINE
CREEK
RAPIDS OR WATERFALL
DRY RUN
DRAINAGE DITCH
HIGH TENSION LINE
POWER POLE LINE
TELEPHONE OR TELEGRAPH LINE
TELEPHONE CONDUIT
GUARD RAIL
WIRE FENCE
RAILROAD SNOW FENCE
BOARD OR HIGHWAY SNOW FENCE
STONE WALL OR FENCE
GAS MAIN
WATER PIPE
SEWER PIPE
DRAIN TILE
GRAVEL PIT
SAND PIT
CLAY PIT
ROCK QUARRY
SPRINGS
MARSH

TIMBER
BRUSH
ORCHARD
ROCK LEDGE
SAND
EDGE OF CUT
TOE OF EMBANKMENT
CATCH BASIN
MANHOLE
DROP INLET
FIRE HYDRANT
ARC LAMP
OTHER LAMPS (State Kind)
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
CATTLE GUARD
OVERHEAD (Highway Over)
UNDERPASS (Highway Under)
ABUTMENT, WALL & PIER
BRIDGE
CULVERT
BUILDING (One Story Frame)
C-CONCRETE S-STONE T-TILE B-BRICK ST.-STUCCO
HEDGE
IRON PIPE
STONE MONUMENT
WOOD STAKE OR HUB
MEANDER CORNER

T.106N. R.24W. / 35 36 / 2 1 / R.24W. T.105N.

CENTER SECTION 35 T.106N. R.24W.

12 / 1 / 4 / 13

NOTE: SECTION NUMBERS READ FROM THE SOUTH

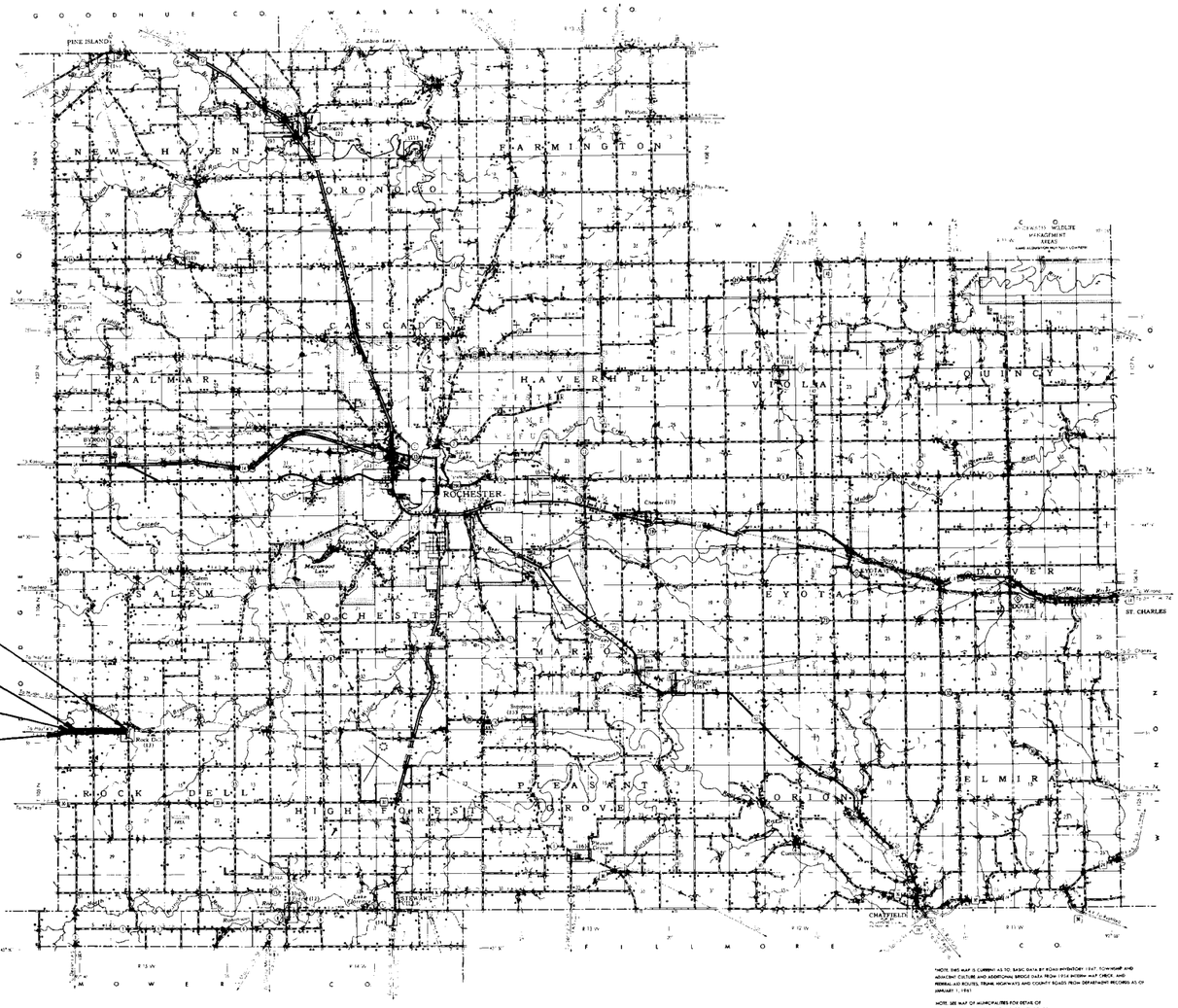
N

End S.P. 55-626-01 Sta. 111+64.43

Exception Bridge
Sta. 125+40

Exception Bridge
Sta. 126+00

Begin S.P. 55-626-01 Sta. 0+00



NOTE: THIS MAP IS CURRENT AS TO BASIC DATA BY ROAD INVENTORY 1961, TOWNSHIP AND ADJACENT CULTURE AND ADDITIONAL BRIDGE DATA FROM 1956 INTERIM MAP CHECK, AND FEDERAL AID ROUTES, TRUNK HIGHWAYS AND COUNTY ROADS FROM DEPARTMENT RECORDS AS OF JANUARY 1, 1961

NOTE: SEE MAP OF MUNICIPALITIES FOR DETAIL OF COUNTY STATE AID HIGHWAYS AND COUNTY ROADS.

STATE OF MINNESOTA

DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR Grading and Crushed Rock Wearing Course

County State Aid Highway No. 26

BETWEEN Dodge-Olmsted County Line AND Rockdell

From 7218.6' West of the SE Cor. Sec. 1 T105- To 1907' West of the SE Cor. 5 T105N-R15W
Give proper reference to Sections, Township and Range 16W.

GROSS LENGTH 1116443 FEET 2.1144 MILES
BRIDGES LENGTH 00 FEET 0.0 MILES
EXCEPTIONS LENGTH 60 FEET 0.0113 MILES
NET LENGTH 1110443 FEET 2.1031 MILES

MINN. PROJ. _____

SCALES
PLAN, 1 Inch=100 Feet
PROFILE, Horz. 1 Inch=100 Feet. Vert. 1 Inch= 40 Feet
WORKING PLANS: Horz. 1 Inch=100 Feet; Vert. 1 Inch=10 Feet; Cross-Section 1 Inch=10 Feet

LAYOUT
Scale, 1 Inch=10560 Feet

INDEX OF SHEETS

Sheet No. 1. Title Sheet & Layout Map
" No. 2. Est. Quantities & Typical Sec.
" No. 3. To 6. Plan & Profile
" No. 7. To 26. Cross Sections
" No. 26 To 28. Channel Change

Design Speed 55 M.P.H.
Projected ADT. 165

ALL FEDERAL, STATE AND LOCAL LAWS WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

I HEREBY CERTIFY THAT THIS PLAN 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.

G J Sullivan (COUNTY ENGINEER) DATE 2-8-63
Olmsted COUNTY REG. NO 1207

RECOMMENDED FOR APPROVAL Arnold Johnson 2/14/1963 DISTRICT ENGINEER D.E.

RECOMMENDED FOR APPROVAL J.B. McMillan Jr. 1963

APPROVED _____ 1962
P.S.E. STATE AID ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED

—SPECIFICATIONS—

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED MAY 1, 1959, AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON MARCH 26, 1959, SHALL GOVERN.

Minn. Proj. No. _____ State Proj. No. _____ State Aid Project No. 55-626-01

Olmsted County, Minnesota County Proj. No. _____ Plan No. _____ Sheet No. 1 of 28 Sheets

H. A. ROGERS CO. Minneapolis

FORM 129 C - 1 REV. '59

ESTIMATED QUANTITIES

SPECIFICATION NO.	ITEM	UNIT	MUNICIPAL	RURAL	TOTAL ESTIMATED QUANTITIES
2101.502	Clearing	Tree			127
2101.507	Grubbing	Tree			88
2104.501	Remove Portable Culverts	Linear Foot			250
2104.520	Remove Masonry-Concrete Arch Culvert (Sta. 60+60)	Structure			1
2104.520	Remove W33X24' Conc. Box Culvert (Sta. 81+30)	Structure			1
2105.501	Class A Excavation	Cu. Yard			81912
2108.511	Channel Excavation (Class A)	Cu. Yard			2508
2130.501	Water	M-Gallon			14
2252.527	Crushed Rock Wearing Course	Cu. Yard (V.M)			5616
2501.511-18"	F. & I. C.M.P. Culverts-18"	Linear Foot			328
2501.511-24"	F. & I. C.M.P. Culverts-24"	Linear Foot			68
2501.521-24"	F. & I. S.C.P. Culverts-24" Class 3	Linear Foot			52
2501.521-42"	F. & I. S.C.P. Culverts-42" Class 2	Linear Foot			74
2501.521-42"	F. & I. S.C.P. Culverts-42" Class 3	Linear Foot			40
2515.531-18"	F. & I. Metal Aprons for C.M.P.-18"	Apron			22
2515.531-24"	F. & I. Metal Aprons for C.M.P.-24"	Apron			4
2515.541-24"	F. & I. Conc. Aprons for S.C.P.-24"	Apron			2
2515.541-42"	F. & I. Conc. Aprons for S.C.P.-42"	Apron			4

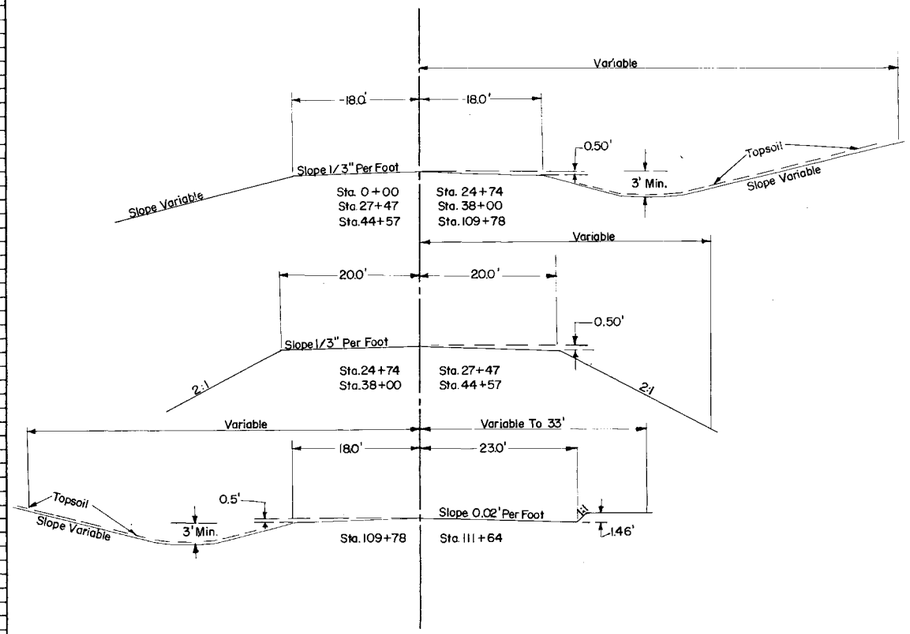
Item No. 2252.527 Includes 150 cu. yds. for Approaches and 150 cu. yds. for TWP. and County Roads

STANDARD DETAIL PLATES

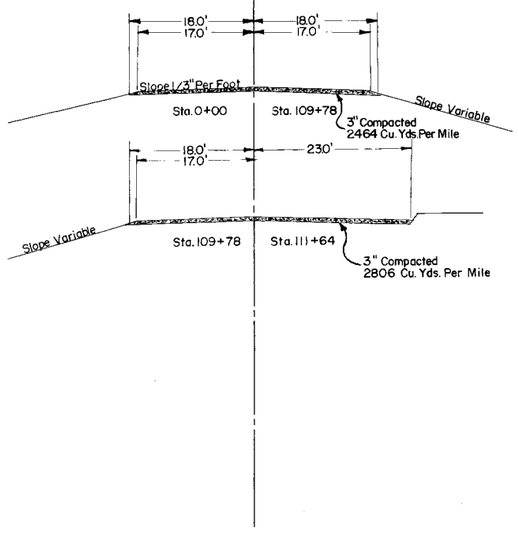
THE FOLLOWING STANDARD DETAIL PLATES, APPROVED BY THE BUREAU OF PUBLIC ROADS, SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
3000 B	Reinforced Concrete Pipe
3100 B & 3102A	Concrete Apron For Reinforced Concrete Pipe
3123 A	Metal Apron For C.M. Pipe

TYPICAL GRADING SECTIONS



TYPICAL BASE & SURFACE SECTIONS



SPECIAL DETAILS

Note: Material from the upper 1.0' of the natural topsoil, shall not be used in the upper 1.0' of the roadbed. Part of this material shall be uniformely spread on slopes and ditch bottoms, to a depth of 3". No payment in addition to the contract price for Class "A" Excavation, will be made for spreading the topsoil as above provided, nor will any undercutting made in excavation prior to placing the topsoil, be measured for payment.

Note: Corrugated metal and sectional concrete pipe culvert excavation will be considered incidental and will be under unit price for "Furnish and Install Culvert Pipe."

Note: Subgrade Treatment:
Excavate 1.0' below profile grade for compaction as shown on the plan and profile sheets. Excavation has been computed and is included in balanced quantities. Backfill with select material from R.O.W. Tapers shall be 50:1 in all cases.

Note: Place sectional concrete on Class "B" and Class "C" Bedding

Note: All dimensions and slopes shown on typical sections are approximate.

Minn. Project No. _____ S.A.P. 55-626-01
State Project No. _____

Olmsted County, Minn. Proj. No. _____ Plan No. _____ Sheet No. 2 of 28 Sheets

DAHMS PHOTO PRINT CO.
MPLS 1, MINN.

CSAH No. 26

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

PLAN — SURVEYED ___ PLOTTED ___ NOTE BOOK ___ NO. ___ — DRAWN ___ ALIGNMENT CHECKED ___ RT. OF WAY CHECKED ___ — BY ___ DATE ___

PROFILE — SURVEYED ___ PLOTTED ___ GRADES CHECKED ___ NOTE BOOK ___ NO. ___ — STRUCTURE NO. ___ CHKD ___ — BY ___ DATE ___

7+50 ℄ Culv (under old road)
Inpl 24"X 36' SCP
Remove
F.&I. 24"X 42' S.C.P. Class 3
F.&I. 2-24" Conc. Aprons
For S.C.P.
Place Ditch Block
Place Culv. on Class B Bedding

14+40 F.E. Lt
No Culv Inpl
F.&I. 18"X 28' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

22+30 F.E. Lt (old road)
Inpl 15"X 24' CMP
Remove
F.&I. 18"X 28' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

25+82 F.E. Lt (old road)
No Culv Inpl
No F.E. Req'd

Channel Change
SP. 55-626-02
Sta. 3+16 to 6+28

27+77 Bridge Lt (old road)
23' I Beam Span
18' Roadway Conc Slab
Bridge and Approachs to remain Inpl. as Temporary By-Pass

Begin S.A.P. 55-626-01
Sta. 0+00

P.C. 0+00

P.I. 2+90.16
Δ LT 11°34'
D 2°00'
T 290.16'
L 578.34'

P.T. 5+78.34

Dodge County
Olmsted County

N90°00'E

N78°26'E

Begin Blacktop Surface

Crushed Rock

Bridge Site

Channel Change

S 77° 31' E

River

P.I. 18+77.22
Δ RT 24°03'
D 3°00'
T 406.86'
L 801.67'

P.C. 14+70.36

Fork

P.T. 22+72.03

Channel Change 0+00 to 3+16 by grading operations SP.55-626-01

7+74 F.E. Rt
No Culv Inpl
No. Culv. Req'd

South

Zumbro

Corner Established By
Olmsted County Highway
Dept. Survey March 15, 1940

Cl. 10 Gl. 10 — Cl. 33 Gr. 12

B.M. Elev. 1176.62
Spk in P.P 33' Rt.
Sta. 0-80

B.M. Elev. 1172.03
Spk in P.P 15' Rt
Sta. 17+61

B.M. Elev. 1172.25
X in S.W. Corner
Abutement Bridge

Profile 75' Rt
Profile 75' Lf

Finished ℄ Grades

Present ℄ Grades

-0.2%

+0.3%

Inlet 71.8
Outlet 71.0

Elev. 73.7

Elev. 73.9

Elev. 74.56249

P.V.C. +00

P.V.T. +00

P.V.C. +20.83333

P.I. +00
Elev. 73.3
400' V.C.
M = 0.25

P.I. +20.83333
Elev. 75.76249
800' V.C.
M' = 2.4

EXC 756
EMB 321

EXC 2793
EMB 1857

EXC 30777
EMB 22002
Class "A" Channel Exc 2508 cu. yds.

Subgrade Treatment
Exc. 1.0' Below Profile Grade
Sta. 0+00 to Sta. 4+40

SUNDE, ERICKSON & MOE, INC.
CHARLES W. ERICKSON, ENGINEER, INC.

OLMSTED COUNTY, MINN.

State Proj. No. 55-626-01 Sheet No. 3 of 28 Sheets

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

PLAN — SURVEYED / PLOTTED / GRADES CHECKED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / NOTE BOOK NO. — BY — DATE

Sta. 31+25
Construct temporary connection to present roadway

P.I. 34+11.84
Δ Lt 12°30'
D 2°00'
T 313.75'
L 625.00'

P.C. 30+98.09

S77°31'E 30

End Blacktop Surface

48.36'

29.03'

59.8'

Impl 2"x2" Hub

TWP Rd +31

33+93 F.E. Lt.
Impl 15"X24' CMP
Remove
F.&I. 18"X28' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

P.T. 37+23.09

39+27 ℄ Culv.
Impl 48"X34' CMP
Remove
F.&I. 42" X 74' S.C.P. Class 2
F.&I. 2-42" Conc. Aprons
For S.C.P.
Place Culv. on Class C Bedding

N89°59'E

47+41 F.E. Lt.
Impl 15"X 24' CMP
Remove
F.&I. 18" X 32' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

P.O.T. 49+95.32

74.83'

91.28'

65.4'

34+31 TWP Rd Rt.
Impl 15"X30' CMP
Remove
F.&I. 18"X 36' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / ALIGNMENT CHECKED / STRUCTURE NOTATING CHKD — BY — DATE

B.M. Elev. 1172.25
X in SW Corner
Abutement Bridge

B.M. Elev. 1213.77
Spk in P.P. 125' Rt
Sta. 34+55

B.M. Elev. 1238.55
Spk in P.P. 32' Lt
Sta. 47+21

Profile 75' Rt
Profile 75' Lt

Elev. 42.35161

Elev. 39.15162

3.6 %

P.V.C. +87.09677

P.V.T. +87.09677

+2.7 %

Inlet 03.9
Outlet 02.5

Finished ℄ Grades

Present ℄ Grades

Elev. 86.56250

P.V.T. +20.83333

P.I. +87.09677
Elev. 53.15161
800' V.C.
M = 6.20

Subgrade Treatment
Exc. 1.0' Below Profile Grade
Sta. 46+60 to Sta. 61+00

EXC 17126
15208 cu. yds. for Balance 35+20 to 42+78
1918 cu. yds. to Sta. 62+00 to Sta. 82+00
EMB 10864

EXC 4545
EMB 2755

SINGLE PLAN & PROFILE - COTTED
CHARLES BRUNING COMPANY INC.

OLMSTED COUNTY, MINN.

State Proj. No. 55-626-01 Sheet No. 4 of 28 Sheets

FED ROAD DIST. NO.	STATE	FEDERAL PROJ. NO	FISCAL YEAR	SHEET No.	TOTAL SHEETS

60+60 TWP Rd Lt
No Culv Inpl
No Culv. Req'd

68+22 FE. Lt.
No Culv Inpl
F.&I. 18"X 28' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

81+30 ℄ Box Culv
Inpl W3X3X24'
Remove
F. & I. 42"X40' S.C.P. Class 3
F. & I. 2-42" Conc. Aprons
For S.C.P.
Place Culv. on Class C Bedding

85+65 FE. Lt
No Culv Inpl
F. & I. 18"X 28' C.M.P.
F. & I. 2-18" Metal Aprons
For C.M.P.

60+60 TWP Rd Rt
Inpl Conc Arch 16' Rise 20'Span X24'
Remove
F. & I. 24"X36' C.M.P.
F. & I. 2-24" Metal Aprons
For C.M.P.

68+22 FE. Rt
Inpl 24"X 18' CMP
Remove
F. & I. 24"X 32' C.M.P.
F. & I. 2-24" Metal Aprons
For C.M.P.

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
BY
DATE

B.M. Elev. 1228.81
Spk in P.P. 35' Rt.
Sta. 60+32

B.M. Elev. 1181.23
Spk in P.P. 38' Rt
Sta. 80+65

Finished ℄ Grades
Present ℄ Grades
Profile 75' Rt
Profile 75' Lt
3.5%
-2.0%
+5.1%
P.I. +00
Elev. 14.2
400' V.C.
M = 0.75
P.V.C. +00
Elev. 21.2
P.V.T. +00
Elev.
P.I. +29.5775
Elev. 77.6085
700' V.C.
M = 6.2125
P.V.C. +79.5775
Elev. 84.60845
P.V.T. +79.5775
Elev. 95.45845
P.V.C. +20.0
Elev. 97.52
Note: Sta. 62+00 to Sta. 82+00
Place 6" Select Material From Sta. 35+00 to Sta. 37+00
Inlet 782
Outlet 780
EXC 7704
EMB 4442
EXC 1255
EMB 840

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

SINGLE PLAN & PROFILE DOTTED
CHARLES BRUNS COMPANY, INC.

OLMSTED COUNTY, MINN.

State Proj. No. 55-626-01 Sheet No. 5 of 28 Sheets

FED. ROAD DIST. No.	STATE	FEDERAL PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

PLAN — SURVEYED — PLOTTED — DESIGN CHECKED — B.M.'s NOTED — STRUCTURE NO. — NOTE BOOK — DATE — BY

91+07 F.E. Lt.
No Culv. Inpl.
F.&I. 18"X 28' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

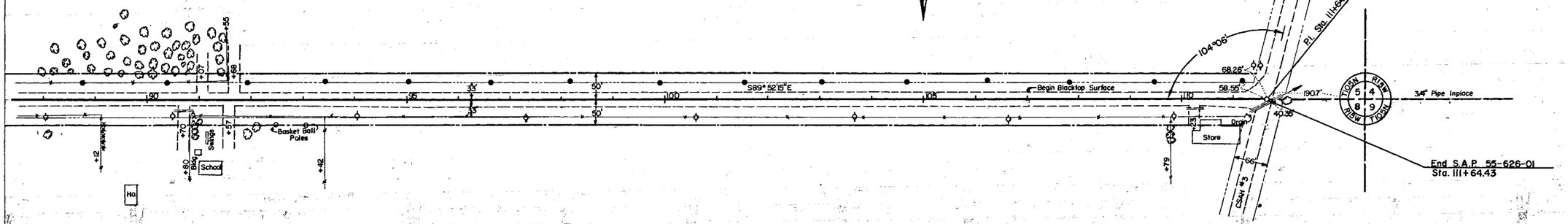
91+68 F.E. Lt.
No Culv. Inpl.
F.&I. 18"X 28' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

90+70 F.E. Rt.
Inpl 15"X24' CMP
Remove
F.&I. 18"X32' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

91+57 F.E. Rt.
No Culv. Inpl.
F.&I. 18"X 32' C.M.P.
F.&I. 2-18" Metal Aprons
For C.M.P.

110+23 F.E. Rt.
Inpl 24"X 36' CMP
Remove
No Culv. Req'd

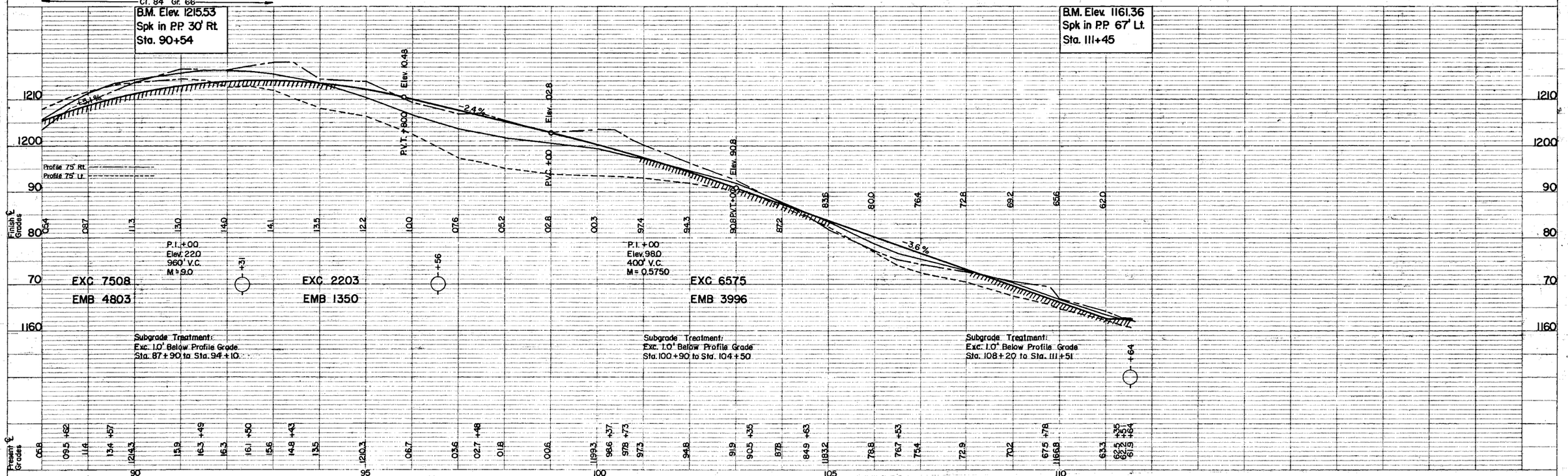
Intersection #3 &#26
Inpl 24"X66' SCP
Extend Inlet
F.&I. 24"X 10' S.C.P. Class 3



Cl. 84 Gr. 66

B.M. Elev. 1215.53
Spk in P.P. 30' Rt.
Sta. 90+54

B.M. Elev. 1161.36
Spk in P.P. 67' Lt.
Sta. 111+45



PROFILE — SURVEYED — PLOTTED — DESIGN CHECKED — B.M.'s NOTED — STRUCTURE NO. — NOTE BOOK — DATE — BY

SINGLE PLAN & PROFILE - DOTTED
CHARLES BRUNING COMPANY, INC.