NORTH MATCHLINE WITH DRAWING FR1

STORM MANHOLE 1
RIM EL. 1157.5
INV. EL. 1152.22

STORM MANHOLE 2
RIM EL. 1157.5
INV. EL. 1151.64

STORM MANHOLE 3
RIM EL. 1157.5
INV. EL. 1151.11

STORM MANHOLE 4
RIM EL. 1157.5
INV. EL. 1150.38

CHAIN LINK FENCE
SEE DETAIL THIS DWG.

WASH WATER
RATE CONTROLLER
VAULT "A"

30'-0"

12" STORM SEWER @ 0.5%

12"-45° BEND

12" @ 0.5%

12" CONC. HEADWALL
SEE DETAIL 5 DWG. FR1

VDOT STANDARD DROP INLET
w/ OPEN GRATE
RIM EL. 1154.80
INV. EL. 1152.30

VDOT STANDARD DROP INLET
w/ OPEN GRATE
RIM EL. 1155.80
INV. EL. 1153.30

VDOT STANDARD DROP INLET
w/ OPEN GRATE
RIM EL. 1156.50
INV. EL. 1154.00

INFLUENT MONITORING
MANHOLE NO. 2
OVERFLOW
INV. EL. 1156.50

DEPRESSION w/
12" RIP RAP
SLOPE TO DRAIN

DRAINAGE DITCH

PRESENT
1944 & 1954
FILTER BUILDING

DEPRESSION w/
12" RIP RAP
SLOPE TO DRAIN

INFLUENT MONITORING
MANHOLE NO. 1
OVERFLOW
INV. EL. 1156.50

PRES.
METAL
BLDG.

PRESENT 1944
PRETREATMENT PLANT

PRES.
1948
AERATION
BASINS

PRESENT 1954
PRETREATMENT PLANT

12 MGD
PRETREATMENT PLANT

GABIONS w/ 3" RIP RAP

R=100'-0"

GRAVEL DRAIN
SEE DETAIL DWG. PB1

HANDICAPPED
PARKING SIGN AND
PAVEMENT MARKING

FLASH MIX
BUILDING 1

FIRE LANE SIGN 1
SEE DETAIL THIS SHEET
(TYPICAL OF 4)

FLASH MIX
BUILDING 2

PRESENT PAVING
TO REMAIN
PAINT BASKETBALL
LINES

BACTERIOLOGICAL
LABORATORY

LOCKER ROOM

PRESENT
ADMINISTRATION
BUILDING

8 SPACES @ 9'-0" = 72'-0"

R=15'-0"

R=12'-0"

WASTEWATER DRAIN MANHOLE

16'-0" CANTILEVER
SLIDE GATE

GATE OPERATOR

KEY OPERATED
GATE CONTROL
POST MOUNTED

GRAVEL ROAD

PRES. GRAVEL ROAD

ONE WAY SIGN

CONCRETE RAMP
DEPRESSED CURB

BITUMINOUS PAVING

FIRE LANE

MONORAIL SUPPORT PIER
SEE DETAILS DWG. A9

BITUMINOUS PAVING

GRAVEL ROAD

5' WIDE CONC.
SIDEWALK

DEPRESSED
CURB

R=10'-0"
R=25'-0"

FIRE LANE
SIGN 1

FIRE LANE

6" CONC. CURB TYP.
SEE DETAIL THIS DWG.

CHEMICAL
BUILDING 1

CHEMICAL
BUILDING 2

AMMONIA TANKS w/ CONC. SUPPORTS
SEE DETAIL DWG. A11

16'-0" CANTILEVER
SLIDE GATE

GATE OPERATOR

R=40'-0"

R=22'-0"

KEY OPERATED
GATE CONTROL
POST MOUNTED

ENGINE GENERATOR

CONC. SIDEWALK

ONE WAY
ARROWS

INTERSECTION
OF ROAD ℄

KEY OPERATED
GATE CONTROL
POST MOUNTED

350' SIGHT DISTANCE
PRESENT POPPS ROAD

REDWOOD SIGN
SEE DET. THIS DWG.

28'-0" CANTILEVER
SLIDE GATE
GATE OPERATOR

18 SPACES @ 9'-0" = 72'-0"

CURB CUT TYP.

R=53'-0"

TYPE I PAVEMENT
~~6" THICK CONC. APRON FROM EDGE OF ROAD TO RADIUS~~

72' (TYP.)

350' SIGHT DISTANCE

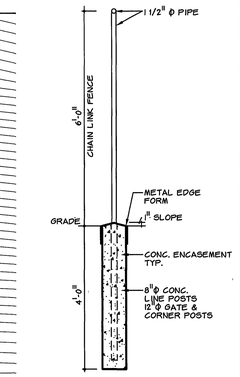
(3) CERCIS CANADENSIS (RED BUD) – MIN. 1" CAL.,
B&B – 4' DIA. MULCHED SAUCER

(2) LANDSCAPED EARTH BERMS – BERMS KIDNEY SHAPED 1 10'x20'x18" HT.
W/ (1) ZELKOVA SERRATA "GREEN VASE" (GREEN VASE ZELKOVA)
– MIN. 1" CAL., B&B AND (8) ILEX GLABRA "COMPACTA" (COMPACT INKBERRY)
– MIN. 18" HT. CONT. OR B&B @ 30" O.C. IN EACH BED. TOTAL 2 ZELKOVA &
16 INKBERRY – MULCH ENTIRE BED 4" DEEP W/DBL. SHREDDED HARDWOOD BARK.

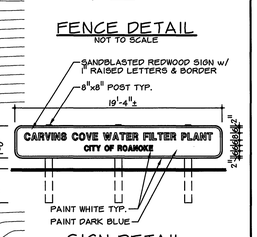
SOUTH MATCHLINE WITH DRAWING FR1

DRAWING OF RECORD
DATE: SEP 30 1997

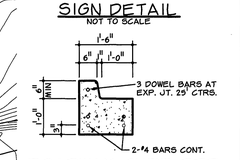
PARTIAL SITE PLAN
SCALE 0 15'-0" 30'-0" 60'-0"



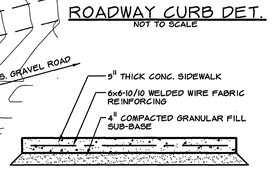
FENCE DETAIL
NOT TO SCALE



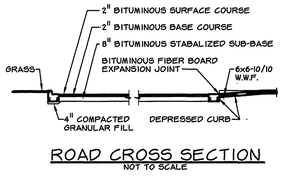
SIGN DETAIL
NOT TO SCALE



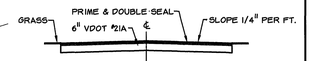
ROADWAY CURB DET.
NOT TO SCALE



CONCRETE SIDEWALK
NOT TO SCALE



ROAD CROSS SECTION
NOT TO SCALE



GRAVEL ROAD SECTION
NOT TO SCALE

FIRE LANE SIGN

MATTERN & CRAIG
CONSULTING ENGINEERS • SURVEYORS
ROANOKE VIRGINIA

ALVORD, BURDICK & HOWSON
ENGINEERS CHICAGO

DESIGNED:
DRAWN:
CHECKED:

COMMONWEALTH OF VIRGINIA
YA-TAI LIN
NO. 022786
PROFESSIONAL ENGINEER

REV.	DATE	DESCRIPTION	BY	APP.
1	12/10/92	ROANOKE CO. COMMENTS C.O. #1	WCB	SWH
2	1/21/93	ENTRANCE REVISIONS PER VDOT COMMENTS	WCB	SWH

CARVINS COVE FILTER PLANT IMPROVEMENTS – PHASE I
ROANOKE, VIRGINIA

TREATMENT PLANT
PARTIAL SITE PLAN

DATE APRIL 1992
COMM. NO. 9130
SHEET A1

PLAN NO. 6199