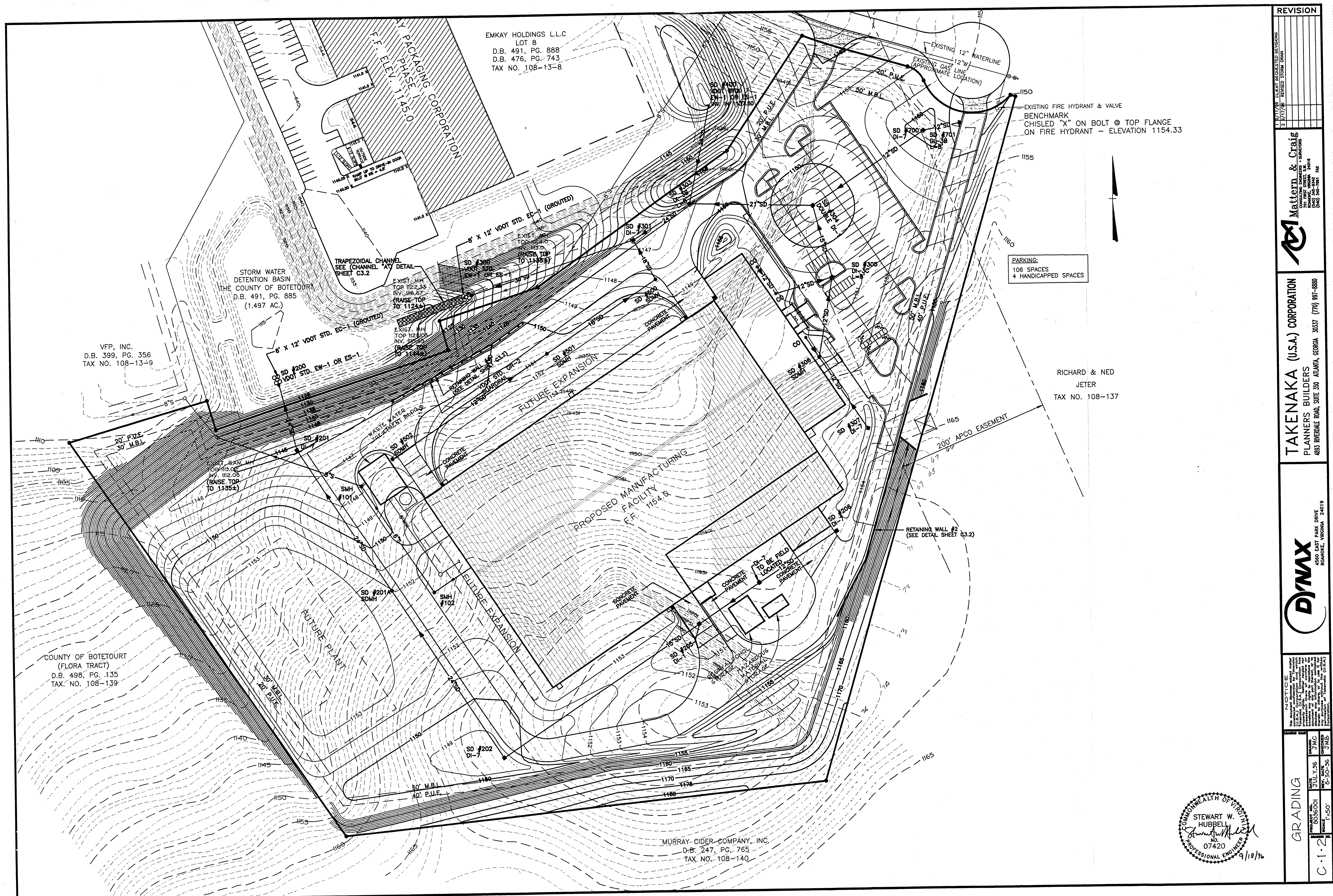


dwg15506.dwg Tue Sep 17 14:55:20 1996



EMKAY HOLDINGS L.L.C.
LOT 8
D.B. 491, PG. 888
D.B. 476, PG. 743
TAX NO. 108-13-8

STORM WATER
DETENTION BASIN
THE COUNTY OF BOTETOURT
D.B. 491, PG. 885
(1.497 AC.)

VFP, INC.
D.B. 399, PG. 356
TAX NO. 108-13-9

COUNTY OF BOTETOURT
(FLORA TRACT)
D.B. 498, PG. 135
TAX NO. 108-139

EXISTING 12" WATERLINE
EXISTING GAS LINE (APPROXIMATE LOCATION)
EXISTING FIRE HYDRANT & VALVE
BENCHMARK
CHISLED "X" ON BOLT @ TOP FLANGE
ON FIRE HYDRANT - ELEVATION 1154.33

PARKING:
106 SPACES
4 HANDICAPPED SPACES

RICHARD & NED
JETER
TAX NO. 108-137

MURRAY CIDER COMPANY, INC.
D.B. 247, PG. 765
TAX NO. 108-140

REVISION	
1	10/17/95 CLIENT REQUESTED REVISIONS
2	11/17/95 REVISED STORM DRAIN

Mattern & Craig
CONSULTING ENGINEERS - SURVEYORS
101 WEST BROAD STREET, SUITE 1815
PORTLAND, OREGON 97201
(503) 540-5442 FAX
(503) 540-5461 FAX

TAKENAKA (U.S.A.) CORPORATION
PLANNERS BUILDERS
4833 WINDHOLE ROAD, SUITE 350 ATLANTA, GEORGIA 30337 (770) 897-8800

DYNAX
4560 EAST PARK DRIVE
ROANOKE, VIRGINIA 24019

NOTICE

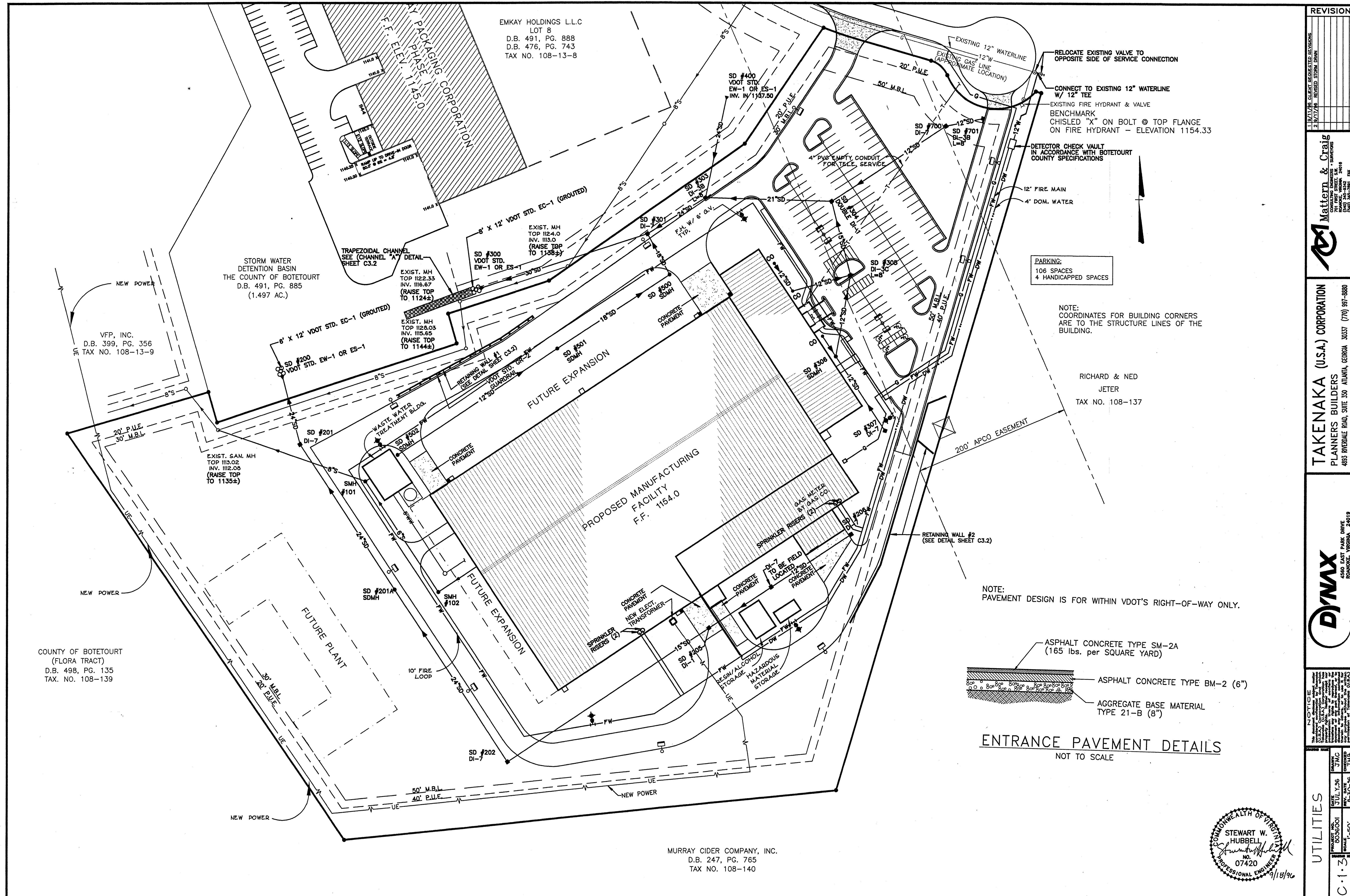
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GRADING	
DATE	JUL 1996
REV. DATE	8-30-96
DESIGNED BY	JMC
CHECKED BY	JMB

C-12

SCALE 1" = 50'

STEWART W. HUBBELL
PROFESSIONAL ENGINEER
9/18/96



REVISION	
1	11/17/96 CLIENT REQUESTED REVISIONS
2	2/9/97/98 REVISED STORM DRAIN

TAKENAKA (USA) CORPORATION
PLANNERS BUILDERS
4883 RIVERDALE ROAD, SUITE 350 ATLANTA, GEORGIA 30337 (770) 997-8880

DYNAX
4800 EAST PARK DRIVE
ROANOKE, VIRGINIA 24019

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DATE	BY	CHKD
7/1/96	JMC	JMC
8-30-96	JMC	JMC

UTILITIES

STEWART W. HUBBELL
Professional Engineer
No. 07420
9/18/96

LEGEND

- (TSD) TEMPORARY SLOPE DRAIN
- (SB) TEMPORARY SEDIMENT BASIN
- (IP) INLET PROTECTION
- (FD) FILL DIVERSION
- (PS) PERMANENT SEEDING
- (TS) TEMPORARY SEEDING
- (CE) CONSTRUCTION ENTRANCE
- (ST) TEMPORARY SEDIMENT TRAP
- (OP) OUTLET PROTECTION
- (SF) SILT FENCE
- (CD) CHECK DAM

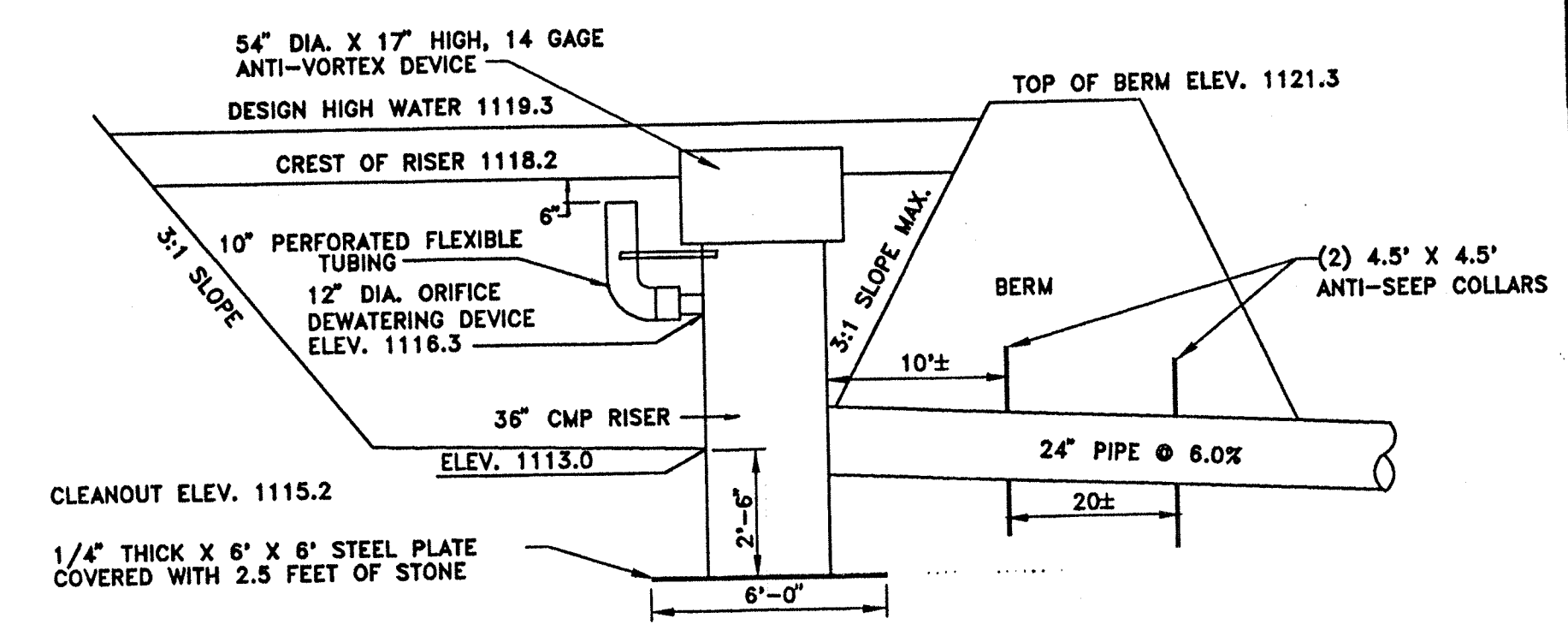
LEGEND

- ELECTRIAL LINE
- FIRE HYDRANT
- NATURAL GAS
- MANHOLE
- SANITARY SEWER
- STORM SEWER
- TELEPHONE LINE
- WATER LINE

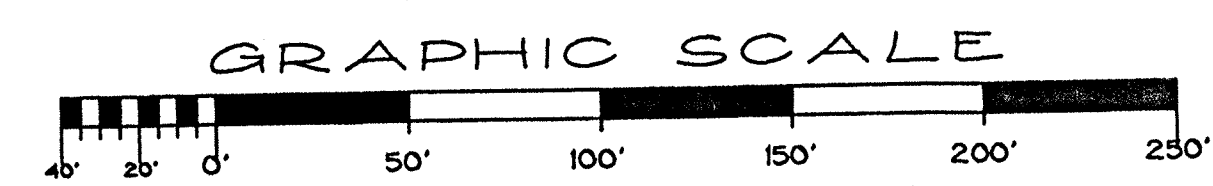
NOTE:
THIS SHEET IS AS ORIGINALLY
SUBMITTED AND APPROVED BY
BOTETOURT COUNTY AND IS TO BE
USED FOR CONSTRUCTION OF THE
TEMPORARY SEDIMENT BASIN ONLY.
REFER TO SHEET C1.5 & C1.6 FOR
REMAINING EROSION CONTROL MEASURES.

GENERAL NOTES FOR EROSION AND
SEDIMENT CONTROL MEASURES

1. TEMPORARY SEDIMENT BASIN IS SIZED TO HANDLE THE SEDIMENT-LADEN RUNOFF FROM AN AREA OF APPROXIMATELY 15.6 ACRES. THE CONTRACTOR SHALL TAKE ALL MEASURES TO DIVERT THE RUNOFF FROM THIS AREA TO THE BASIN DURING GRADING ACTIVITIES.
2. EACH TEMPORARY SEDIMENT TRAP IS DESIGNED TO CONTAIN THE RUNOFF FROM A MAXIMUM AREA OF 3 ACRES.
3. THIS DRAWING MAY NOT SHOW ALL EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO COMPLETE EACH PHASE OF THE PROJECT. DEPENDING ON HOW FILL ACTIVITIES ARE PERFORMED, THE CONTRACTOR SHALL TAKE ALL INTERMEDIATE MEASURES NECESSARY TO COMPLY WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK".



DESIGN ELEVATIONS FOR TEMPORARY SEDIMENT BASIN
N.T.S.



COMMONWEALTH OF VIRGINIA
STEWART W. HUBBELL
No. 07420
PROFESSIONAL ENGINEER
7/10/96

EMKAY HOLDINGS L.L.C.
LOT 8
D.B. 491, PG. 888
D.B. 476, PG. 743
TAX NO. 108-13-8

ARKAY PACKAGING CORPORATION
F.F. ELEV. 1145.5

VFP, INC.
D.B. 399, PG. 356
TAX NO. 108-13-9

COUNTY OF BOTETOURT
(FLORA TRACT)
D.B. 408, PG. 135
TAX NO. 108-139

MURRAY CIDER COMPANY, INC.
D.B. 247, PG. 765
TAX NO. 108-140

RICHARD & NED
JETER
TAX NO. 108-137

200' APCO
EASEMENT
DB 103 PG 403

PROPOSED MANUFACTURING
FACILITY
F.F. 1154.0

STORM WATER
DETENTION BASIN
THE COUNTY OF BOTETOURT
D.B. 491, PG. 885
(1.497 AC.)

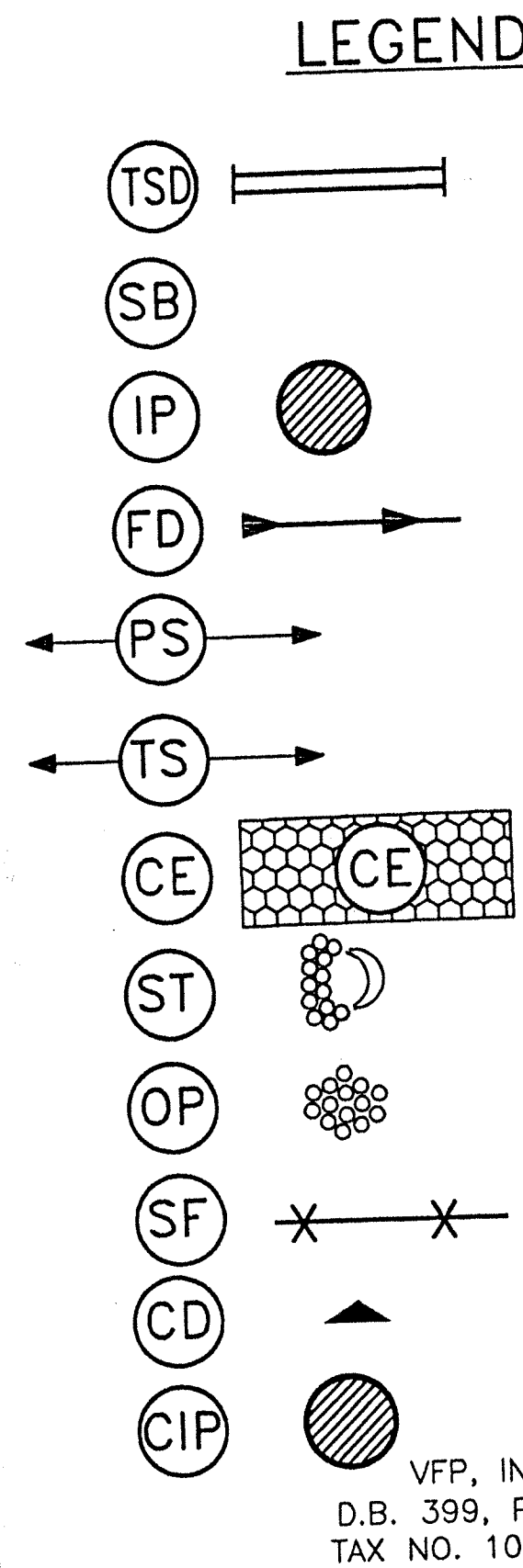
WASTE WATER
TREATMENT

FUTURE EXPANSION

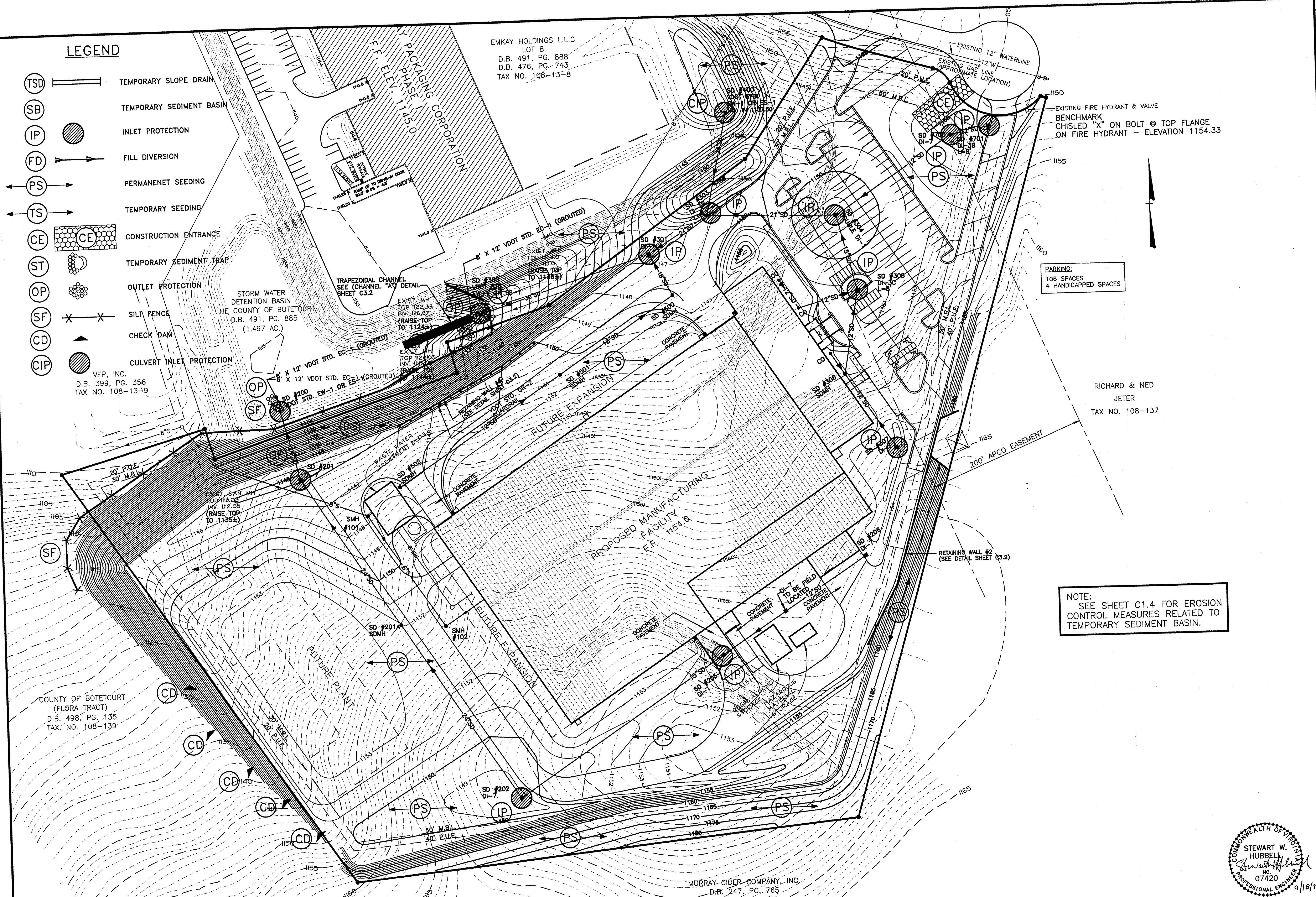
TOBACCO STOCKPILE

RUE

HICKORY



EMKAY HOLDINGS L.L.C.
LOT 8
D.B. 491, PG. 888
D.B. 476, PG. 743
TAX NO. 108-13-8



PARKING:
106 SPACES
4 HANDICAPPED SPACES

RICHARD & NED
JETER
TAX NO. 108-137

NOTE:
SEE SHEET C1.4 FOR EROSION
CONTROL MEASURES RELATED TO
TEMPORARY SEDIMENT BASIN.

MURRAY-CIDER COMPANY, INC.
D.B. 247, PG. 765
TAX NO. 108-140

REVISION	
1	10/1/96
2	10/1/96
3	10/1/96
4	10/1/96
5	10/1/96
6	10/1/96
7	10/1/96
8	10/1/96
9	10/1/96
10	10/1/96

TAKENAKA (USA) CORPORATION
PLANNERS BUILDERS
4833 INTERDUAL ROAD, SUITE 350 ATLANTA, GEORGIA 30337 (770) 997-8800

DYNAX
4560 EAST PARK DRIVE
ROANOKE, VIRGINIA 24019

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PROFESSIONAL ENGINEER
STEWART W. HUBBELL
NO. 07420
2/10/96

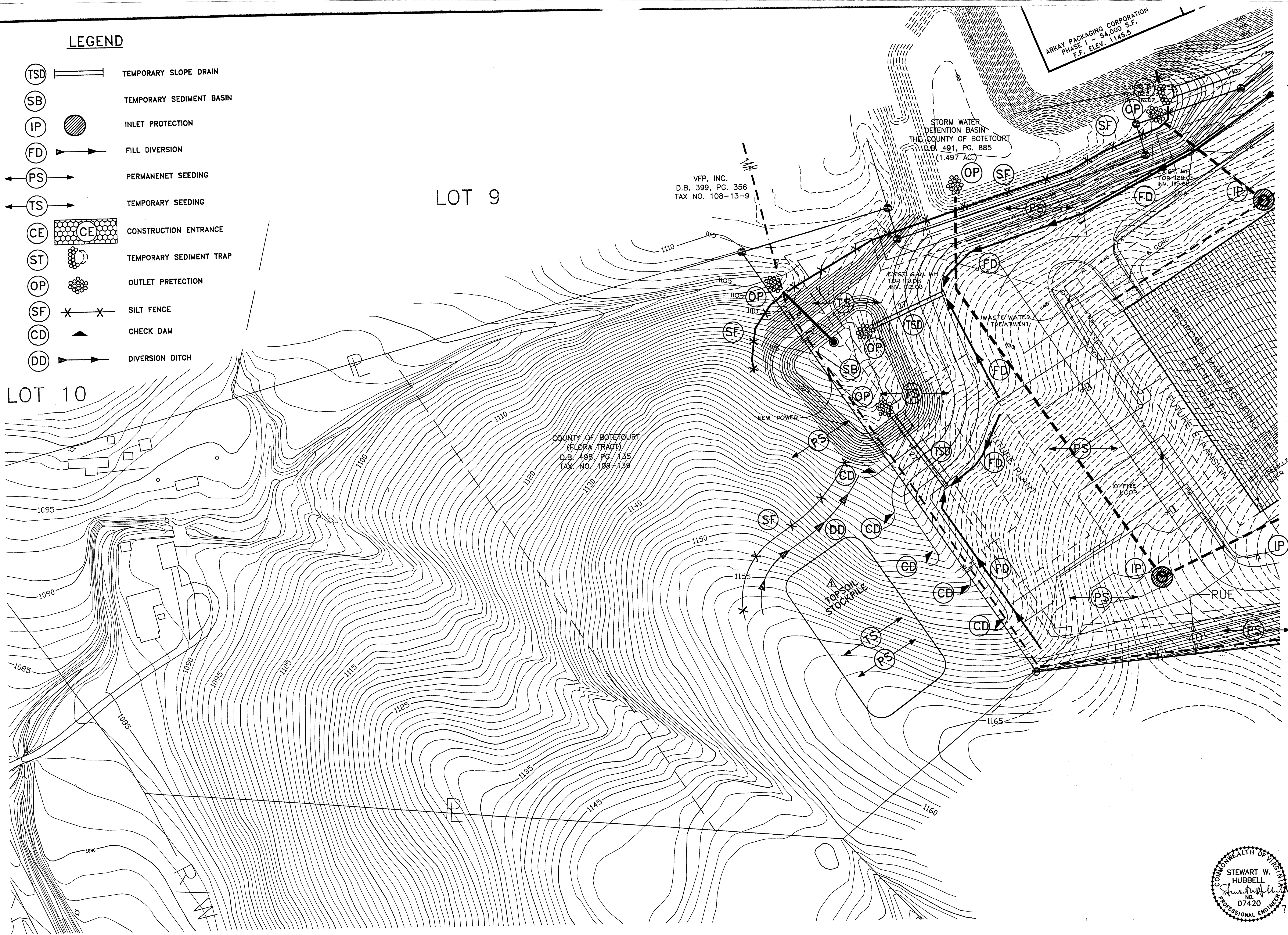
EROSION CONTROL PLAN
DATE: JULY, 96
PROJECT NO.: 8036001
SCALE: C-1.5

LEGEND

- (TSD) ——— TEMPORARY SLOPE DRAIN
- (SB) ——— TEMPORARY SEDIMENT BASIN
- (IP) ● INLET PROTECTION
- (FD) ——— FILL DIVERSION
- ← (PS) → PERMANENT SEEDING
- ← (TS) → TEMPORARY SEEDING
- (CE) [CE] CONSTRUCTION ENTRANCE
- (ST) [ST] TEMPORARY SEDIMENT TRAP
- (OP) ● OUTLET PROTECTION
- (SF) X X SILT FENCE
- (CD) ▲ CHECK DAM
- (DD) ——— DIVERSION DITCH

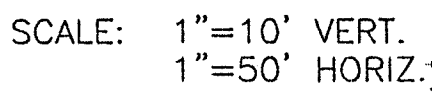
LOT 9

LOT 10



COMMONWEALTH OF VIRGINIA
 STEWART W. HUBBELL
 PROFESSIONAL ENGINEER
 NO. 07420
 7/10/96

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EROSION CONTROL PLAN	
PROJECT NO. 07420	DATE: JULY '96
DESIGNED BY: JMC	CHECKED BY: JMB
SCALE: 1" = 50'	DATE: 7/10/96
TAKENAKA (U.S.A.) CORPORATION PLANNERS BUILDERS 4855 RIVINGTON ROAD, SUITE 500 ATLANTA, GEORGIA 30337 (770) 997-8880	
Matthew & Craig CIVIL ENGINEERS 1000 WEST VIRGINIA AVE. SUITE 200 ROANOKE, VIRGINIA 24019 (800) 544-7888	



C.2.1	PROJECT NO. 8096001	DATE JULY '96	DRAWN DSG
	SCALE	REV. DATE	CHECKED

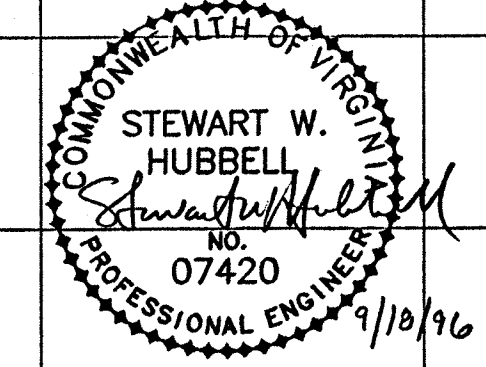
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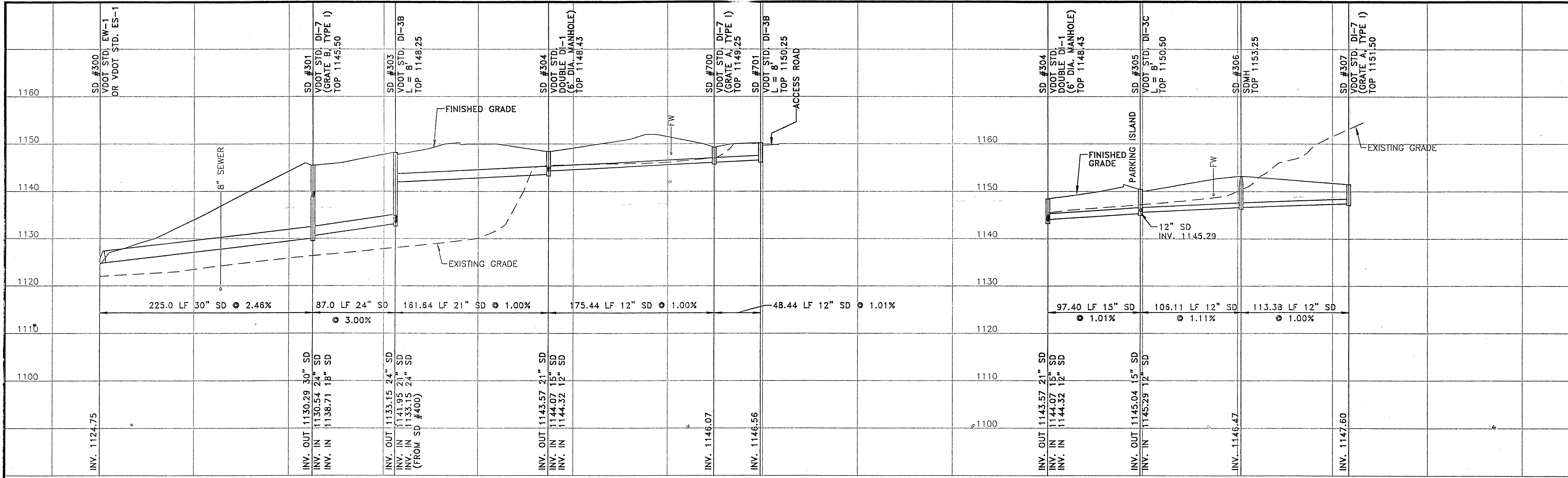
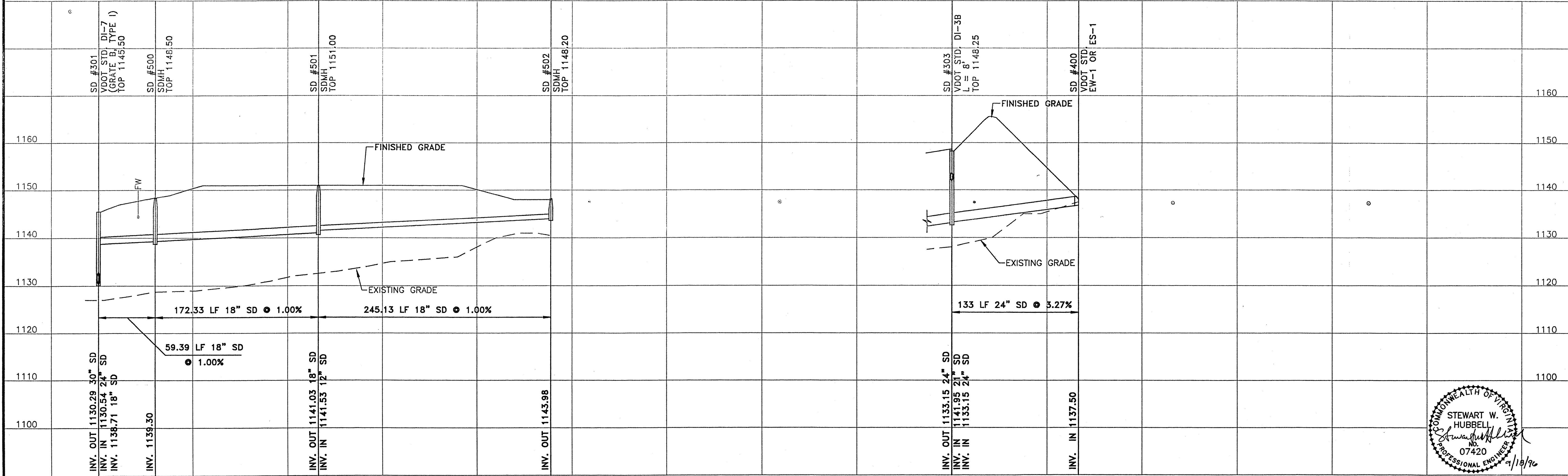
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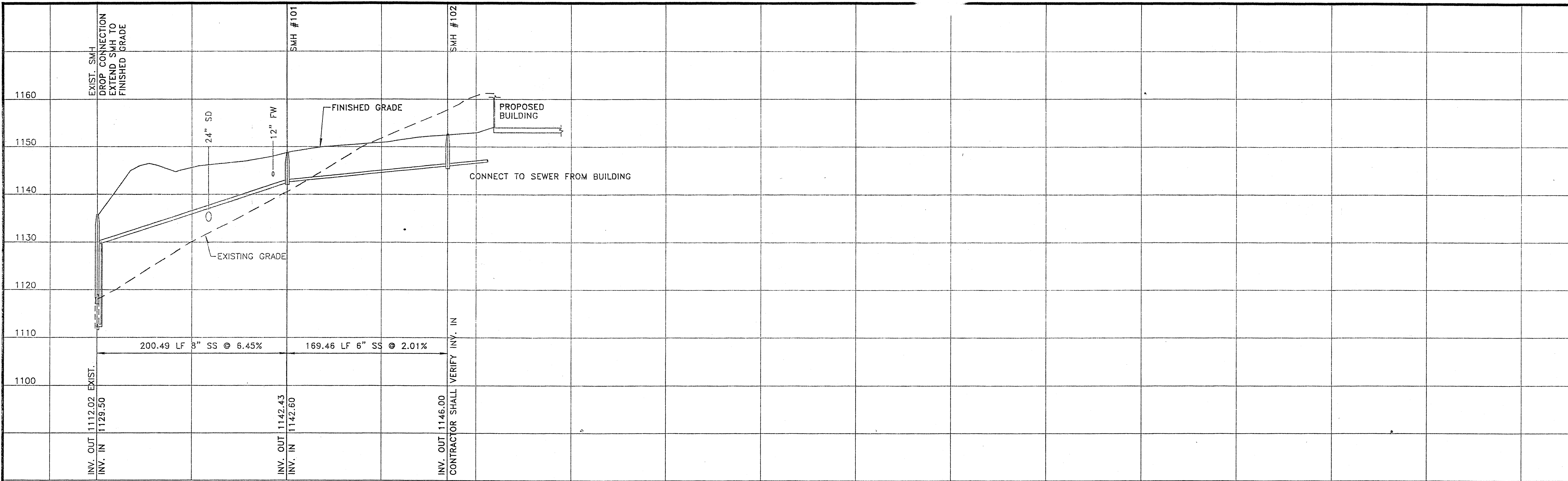
D'MAX
4560 EAST PARK DRIVE
ROANOKE, VIRGINIA 24019

TAKENAKA (U.S.A.) CORPORATION
PLANNERS BUILDERS
4803 RIVERDALE ROAD, SUITE 350 ATLANTA, GEORGIA 30357 (770) 997-8880

DM **Mattern & Craig**
CONSULTING ENGINEERS • SURVEYORS
701 FIRST STREET, S.W.
ROOM 2000
SEASIDE, CALIF. 94061
415/443-3131
415/443-3132 FAX

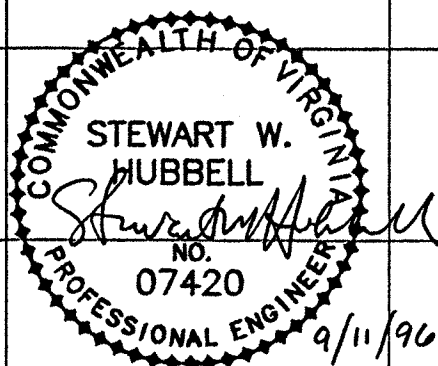
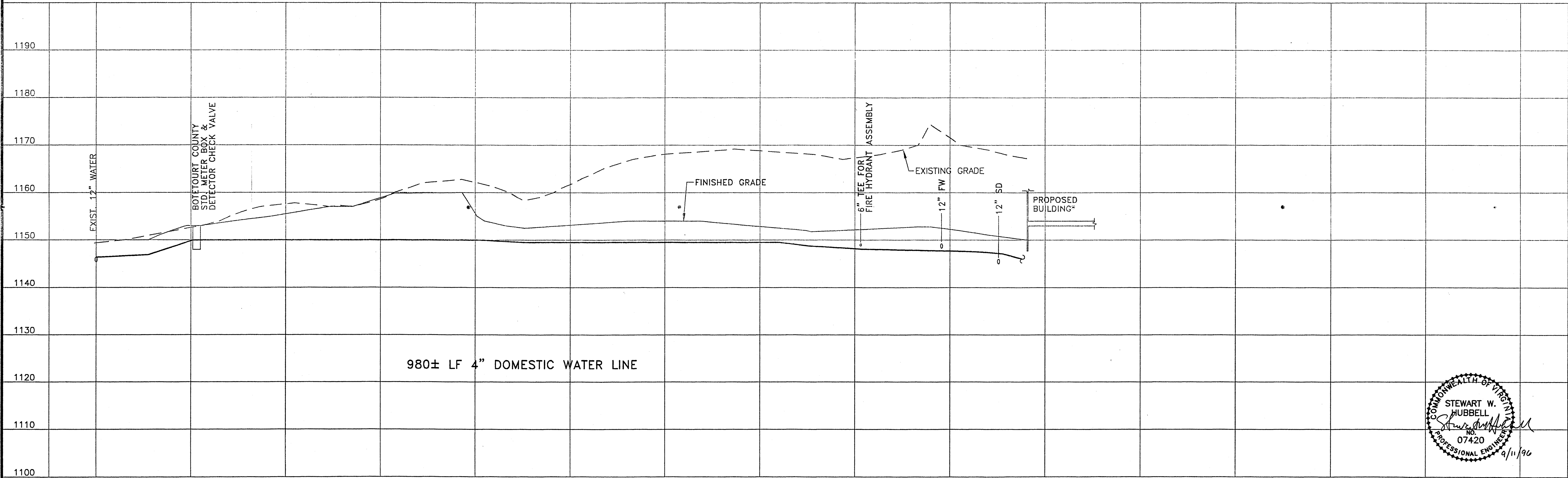
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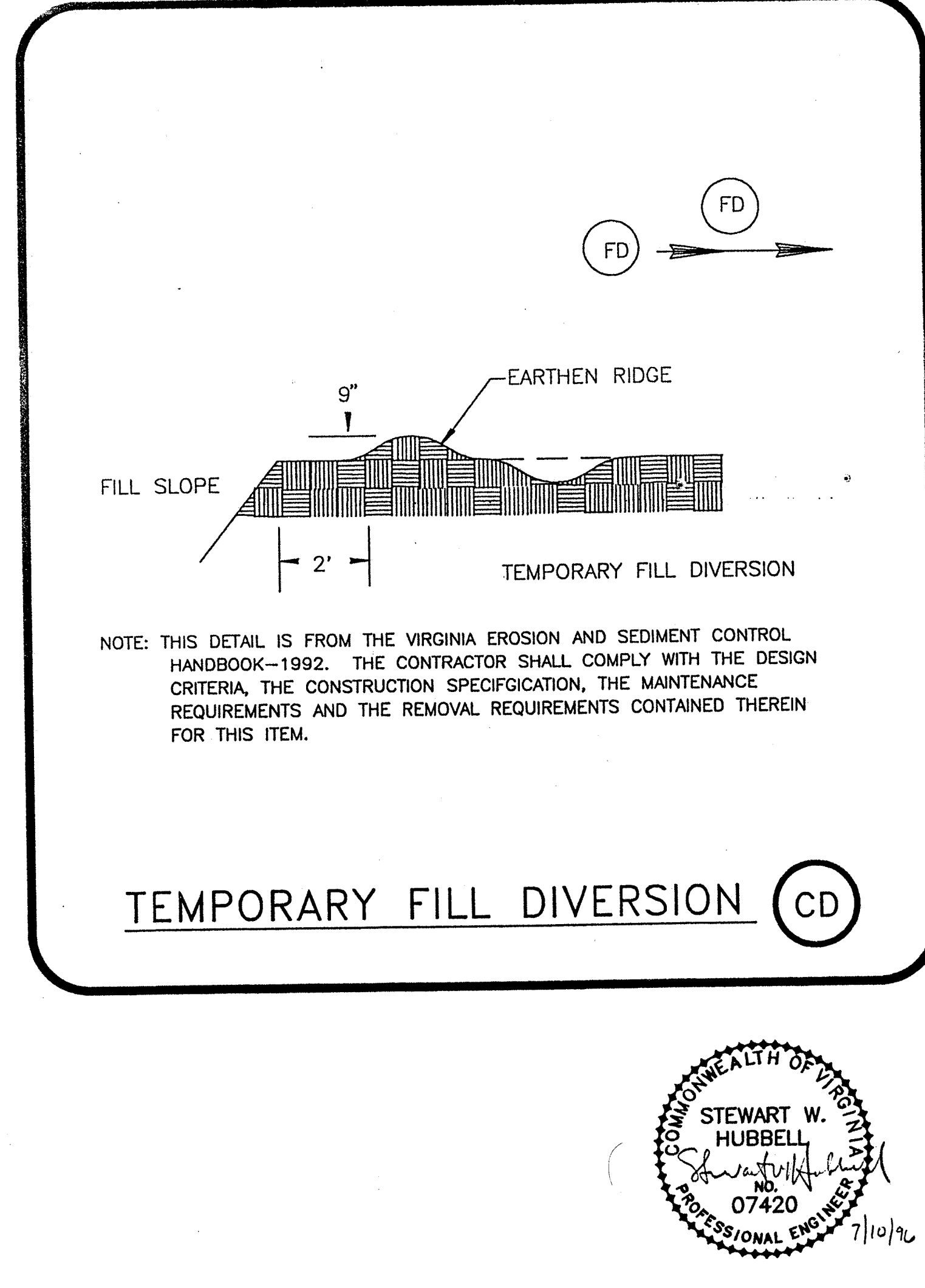
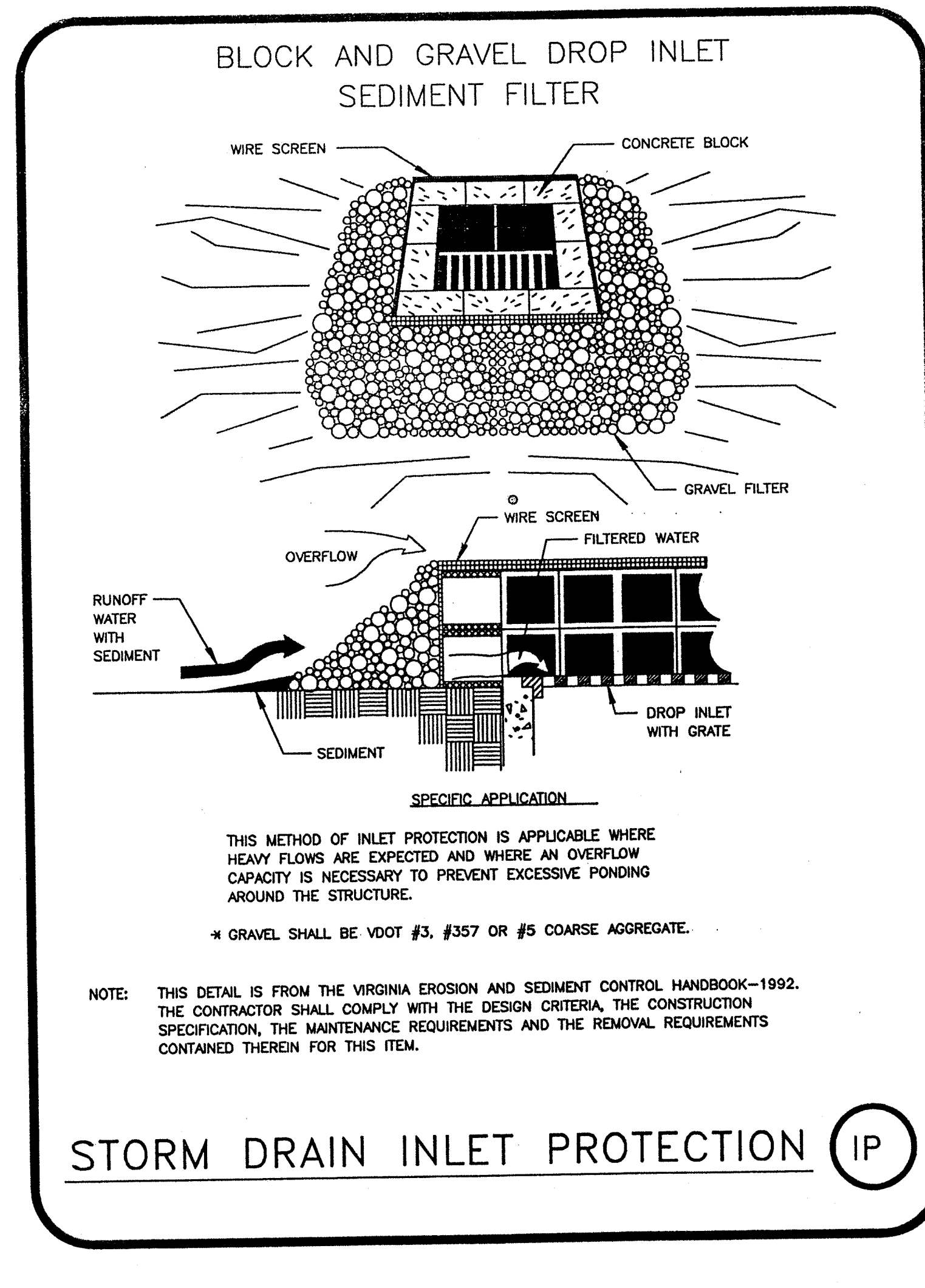
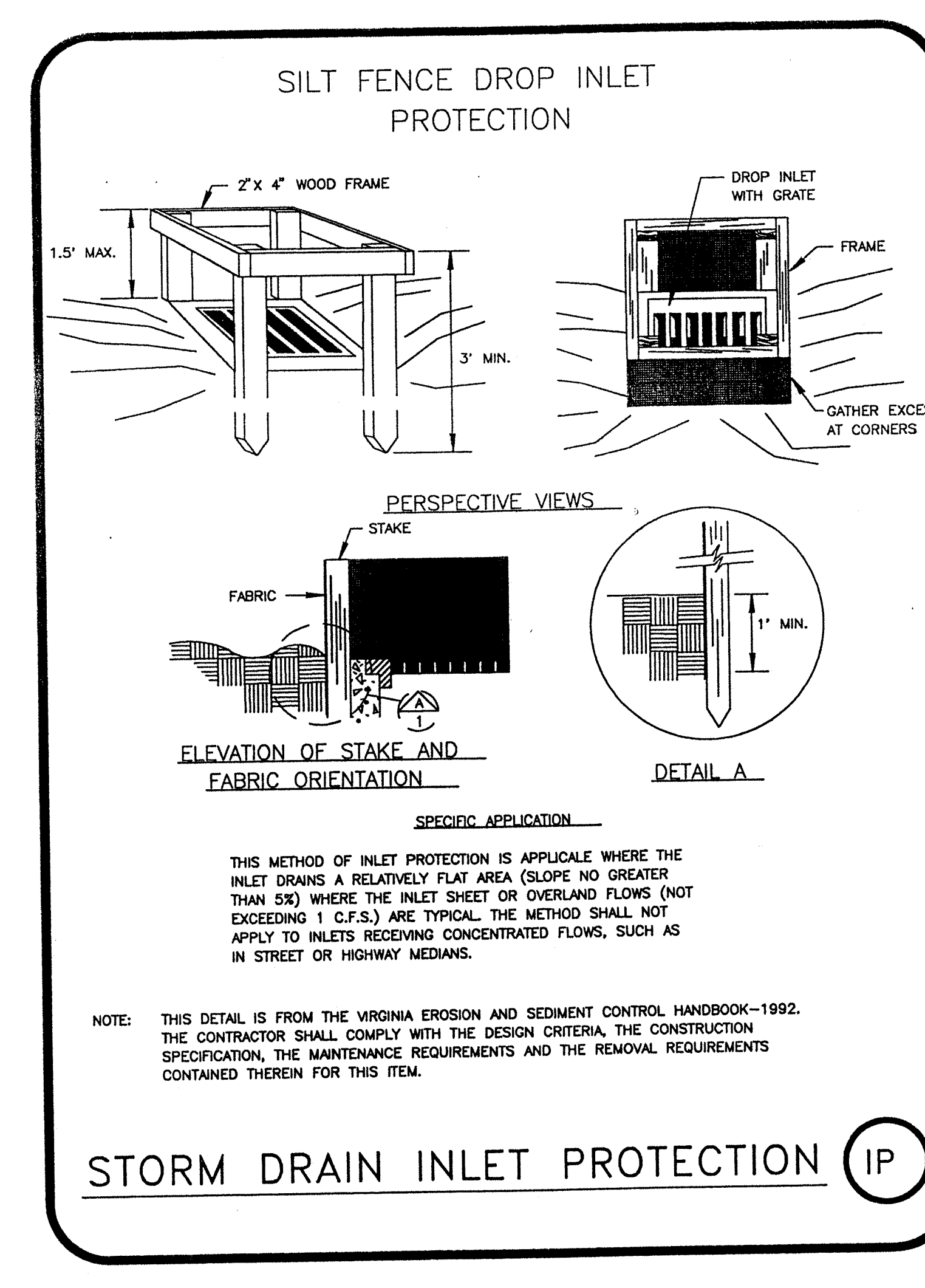
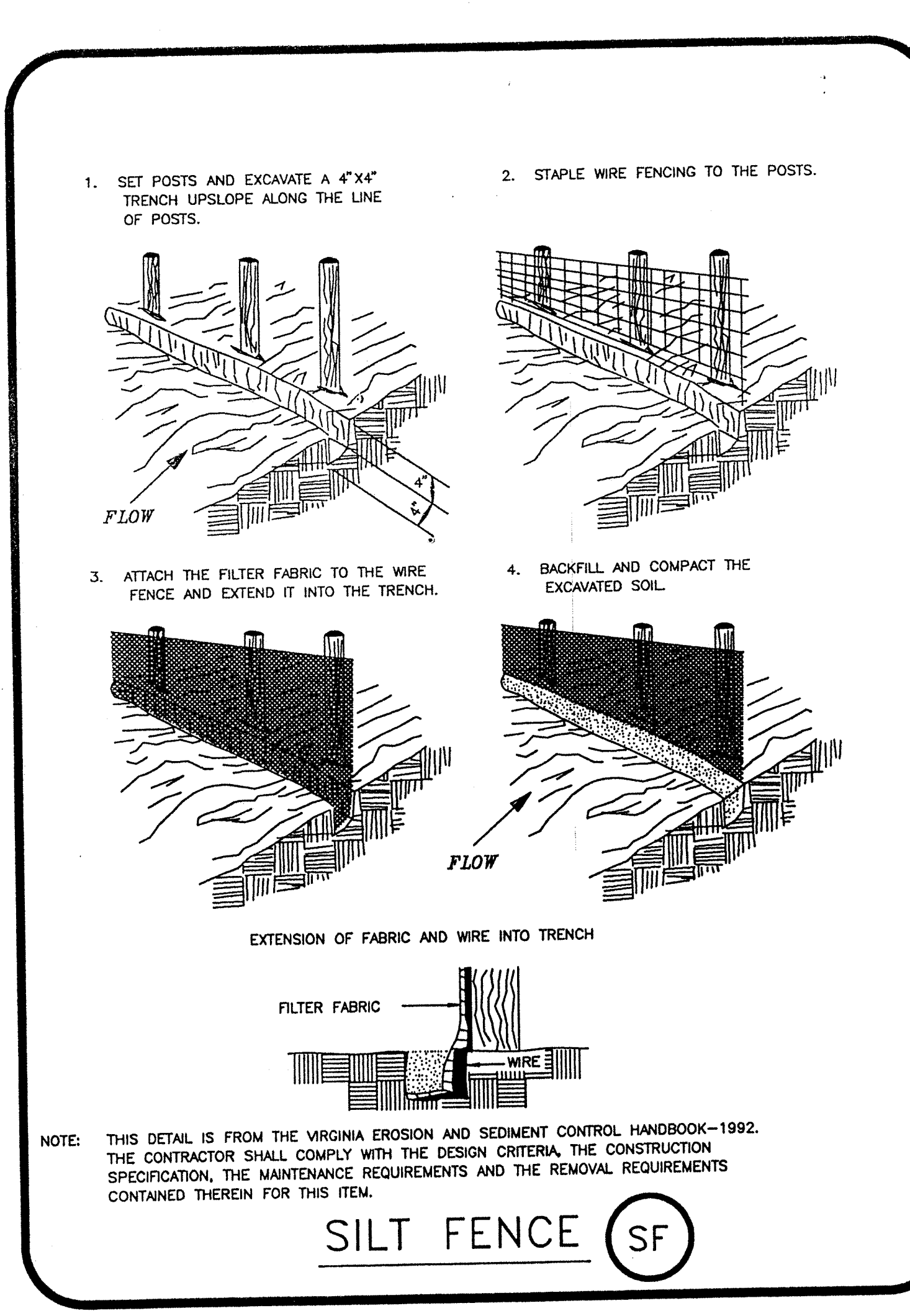
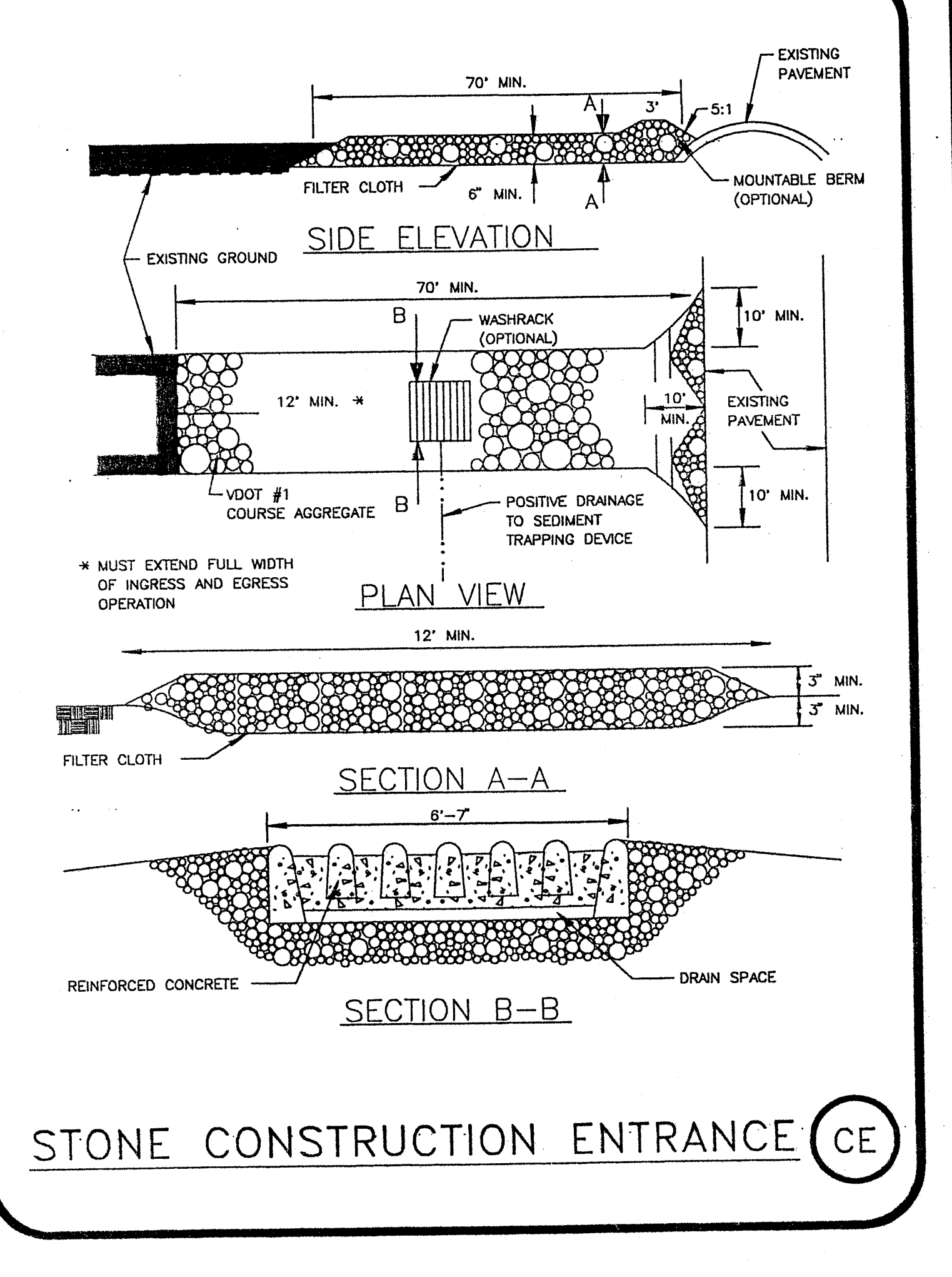
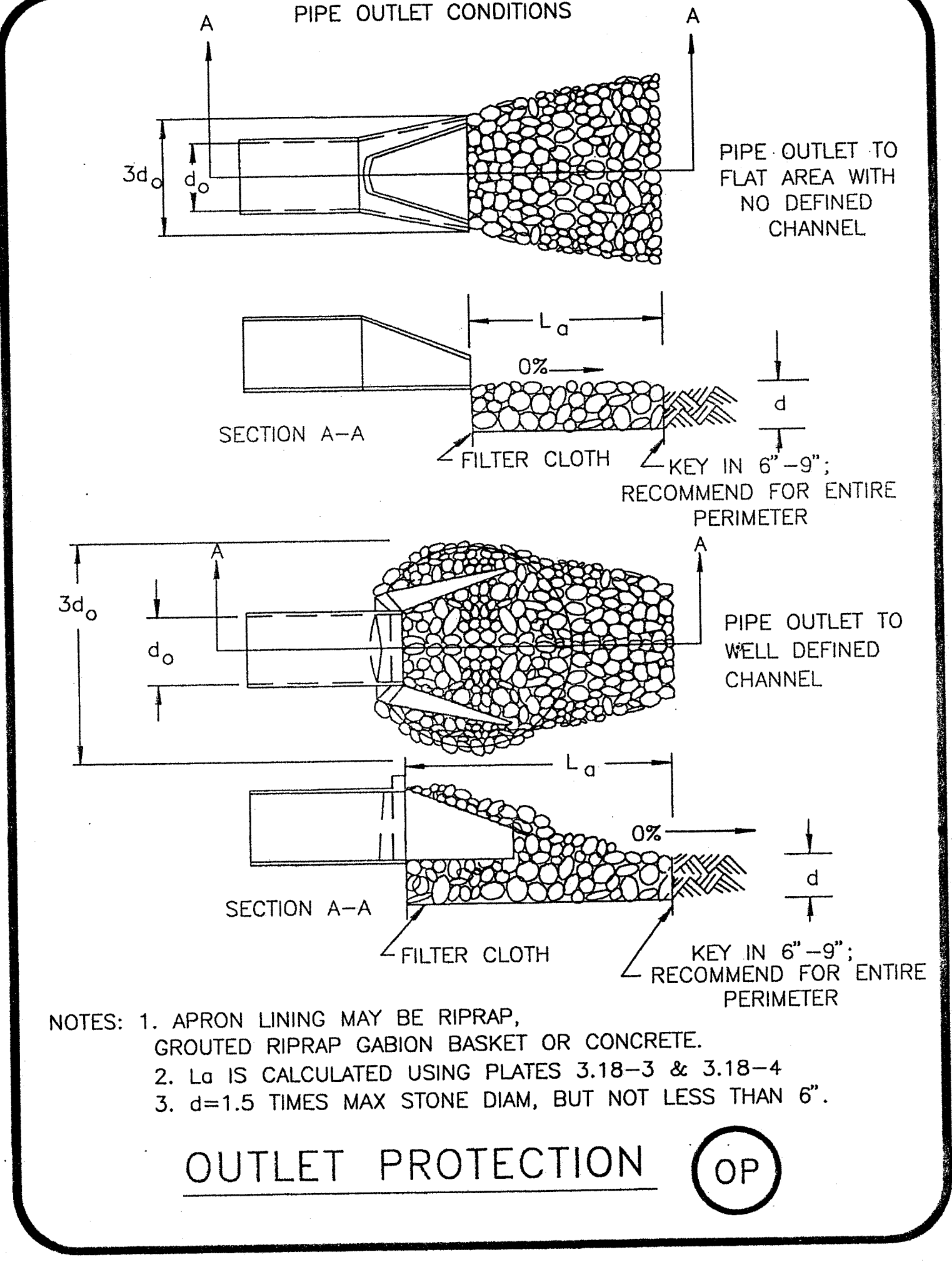
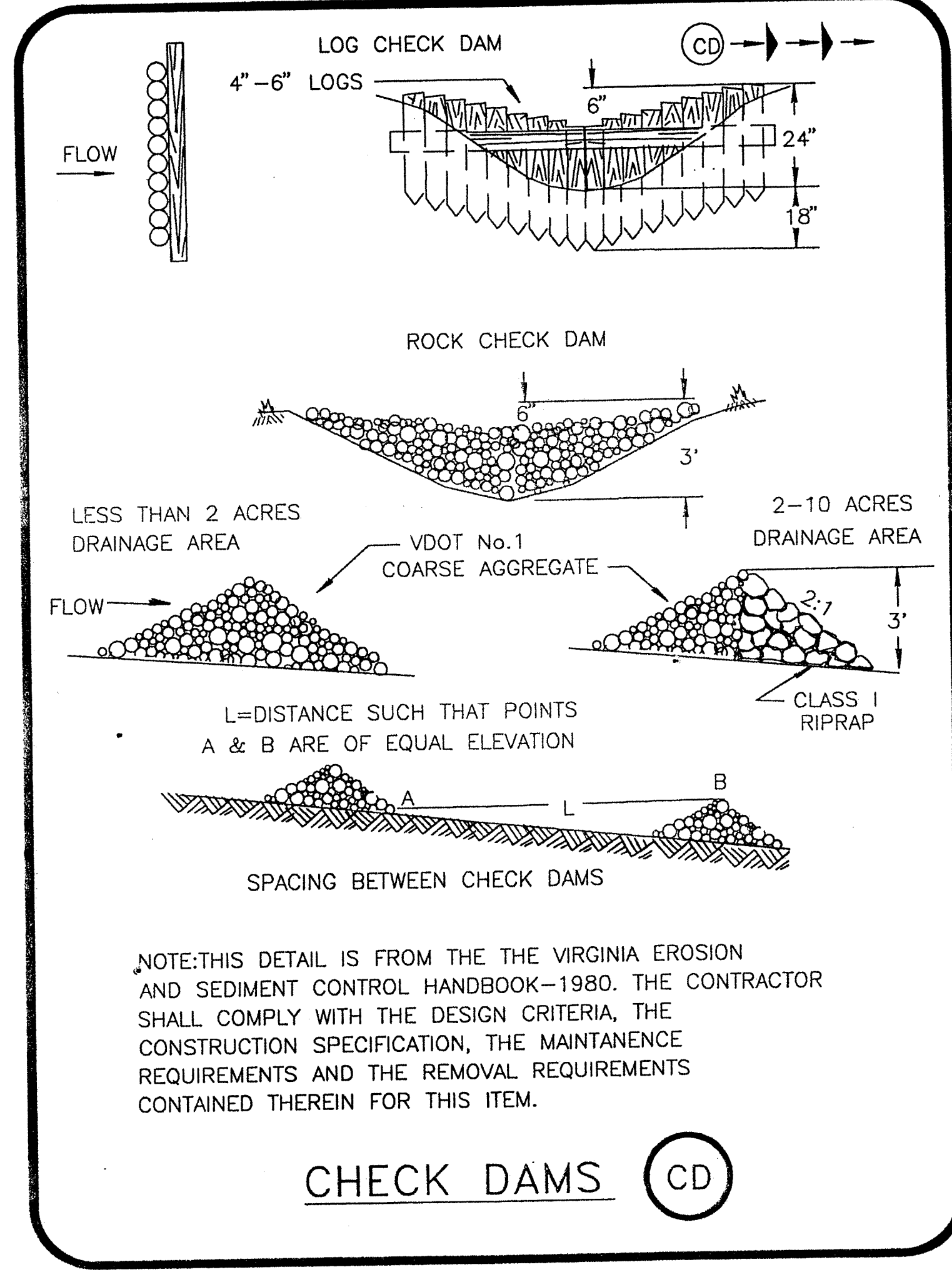
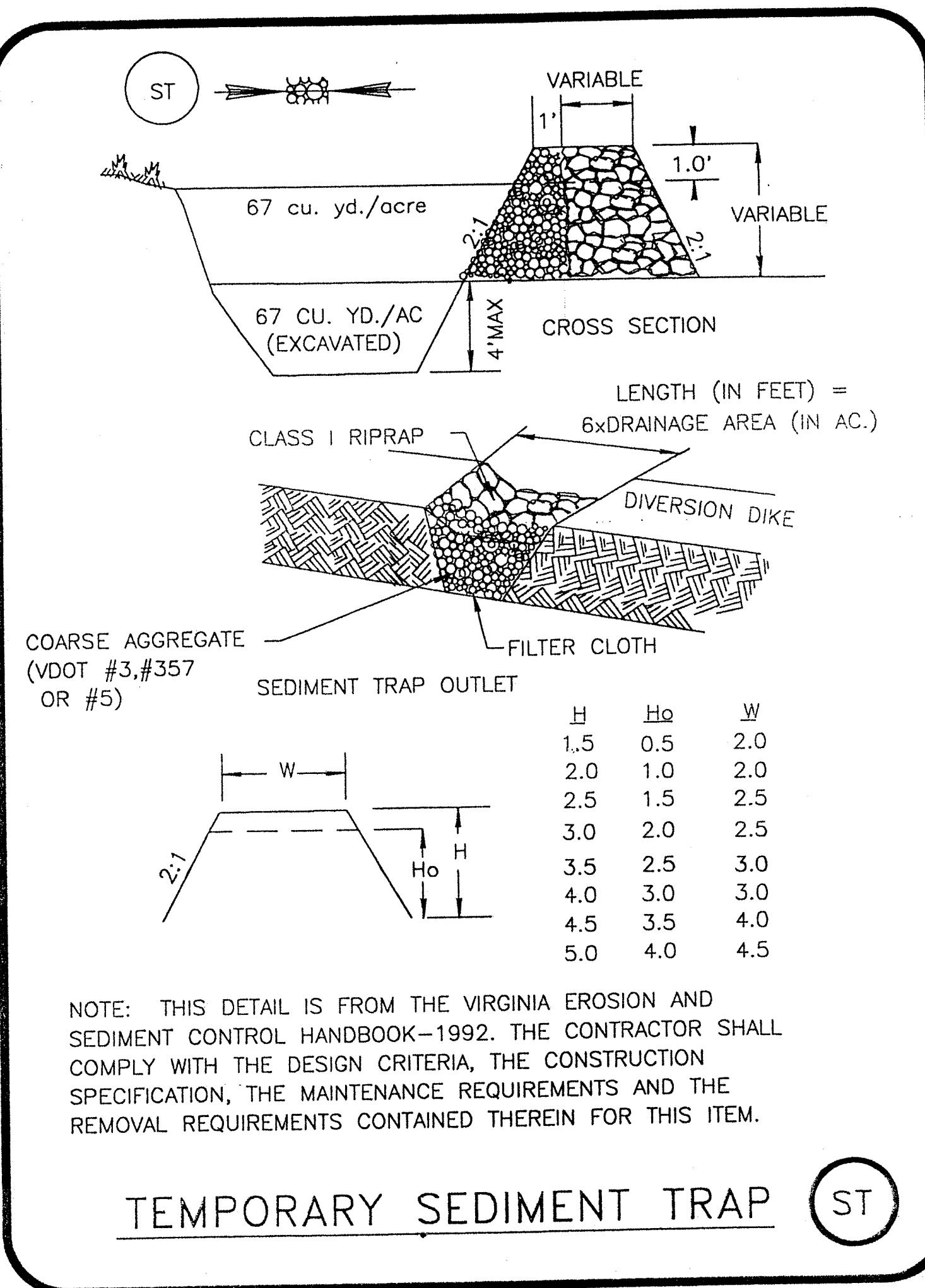


SANITARY SEWER PROFILE

SCALE: 1"=10' VERT.
1"=50' HORIZ.



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PROJECT NO. C-2-3		DATE JULY '96		DRAWN DSG		CHECKED JMS	
SCALE AS SHOWN		REV. DATE 8-30-96		REV. DATE 8-30-96		REV. DATE 8-30-96	
WATER & SEWER PROFILES		PROJECT NO. C-2-3		DATE JULY '96		DRAWN DSG	



APPROX. 250'

3:1 CUT SLOPE

VDOT STD. CLASS I RIPRAP
W/ GEOTEXTILE FABRIC PER
VDOT SPECIFICATIONS
(BOTH SIDES)

NOT USED

FILL SLOPE

3' MIN.
(BOTH SIDES)

1' MIN.
(BOTH SIDES)

EXTEND EC-3
AS SHOWN

LINE CHANNEL BOTTOM
WITH EC-3, TYPE B

TRAPEZOIDAL CHANNEL DETAIL (CHANNEL "B")

N.T.S.

LOCATION OF SIGN

2'

20'

13'

30"

6 1/2"

WHITE REFLECTIVE BACKGROUND MAT'L

GREEN 2" LETTERS & 3/8" BORDER

BLUE BACKGROUND

WHITE SYMBOL

12"

18"

6"

6"

RESERVED

PARKING

GREEN ARROW

PROPORTIONS

INTERNATIONAL SYMBOL OF ACCESSIBILITY

WHITE ON ASPHALT
BLUE ON CONCRETE

RETAINING WALL #1 DETAIL
SCALE 1" = 30'

CP #1000

RETAINING WALL (BY OTHERS)

CP #1001

CP #1002

CP #1003

CP #1004

CP #1005

CP #1006

CP #1007

CP #1008

ACCESS ROAD

APCO TOWER

200' APCO EASEMENT

COORDINATE LIST

POINT #	NORTHING	EASTING
CP #1000	803.3979	668.3881
CP #1001	876.7464	801.9663
CP #1002	905.6096	843.1436
CP #1003	803.1075	1372.4392
CP #1004	793.7415	1349.2600
CP #1005	747.1694	1335.6771
CP #1006	729.6942	1356.6380
CP #1007	587.2870	1289.0467
CP #1008	512.5640	1250.1183

TWO HANDICAPPED SYMBOLS REQUIRED IF APPROACHED FROM BOTH ENDS

6" YELLOW BORDER AND STRIPES AT 45°, 2' APART

WHITE OUTLINE

BLUE

WHITE

COMMONWEALTH OF VIRGINIA
STEWART W. HUBBELL

COORDINATE LIST		
POINT #	NORTHING	EASTING
CP #1000	803.3979	668.3881
CP #1001	876.7464	801.9663
CP #1002	905.6096	843.1436
CP #1003	803.1075	1372.4392
CP #1004	793.7415	1349.2600
CP #1005	747.1694	1335.6771
CP #1006	729.6942	1356.6380
CP #1007	587.2870	1289.0467
CP #1008	512.5640	1250.1183

COMMONWEALTH OF VIRGINIA
STEWART W. HUBBELL
Professional Engineer
NO. 07420

Mattern & Craig
CONSULTING ENGINEERS • SURVEYORS
701 FIRST STREET, S.W.
ROANOKE, VIRGINIA 24066
840/842-3842
840/842-7801 FAX

TTAKENAKA (U.S.A.) CORPORATION
PLANNERS BUILDERS
46893 RIVERDALE ROAD, SUITE 350 ATLANTA, GEORGIA 30337 (770) 997-8880

DYNEX
4560 EAST PARK DRIVE
ROANOKE, VIRGINIA 24019

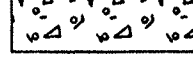
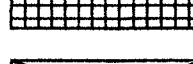
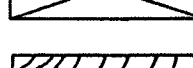
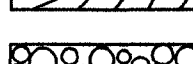
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DRAWING NO.	PROJECT NO.		DATE	DRAWN
	8036001			
C3.2	SCALE		REV. DATE	CHECKED
	AS SHOWN			
MISCELLANEOUS DETAILS			JMB	
DRAWING NAME			JMB	

FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR
FLEX	FLEXIBLE
FLG	FLANGE
FT	FOOT
FTG	FOOTING
FUT	FUTURE
GAL	GALLON
GALV	GALVINIZED
GAR	GARAGE
GND	GROUND
GR	GRAVEL
GOVT	GOVERNMENT
GPM	GALLONS PER MINUTE
GRTG	GRATING
GV	GAS VALVE
GW	GRAY WATER
H	HOT
HB	HOSE BIBB
HK	HOOK
HM	HOLLOW METAL
HOR, HORIZ	HORIZONTAL
HP	HORSE POWER
HPT	HIGH POINT
HYD	HYDRANT
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INV	INVERT
IP	IRON PIN
JT	JOINT
JB	JUNCTION BOX
L	LENGTH, LONG
LF	LINEAL FOOT
LG	LONG
LP	LIGHT POLE
LR	LONG RADIUS
LT	LEFT
LTG	LIGHTING
MACH	MACHINERY
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MAILBOX
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE, MOUNTING HEIGHT
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MO	MASONRY OPENING
MON	MONUMENT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MV	MUD VALVE
N & C	NAIL AND CAP
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTERS
OD	OUTSIDE DIAMETER
OPER	OPERATOR
OPNG	OPENING
OPP	OPPOSITE
PB	PAPER BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND
PER	PERIMETER
PERF	PERFORATED
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PLATE, PROPERTY LINE
PLYWD	PLYWOOD
POL	POINT ON LINE
PP	POWER POLE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	PRIVATE
R	RADIUS, RISER
RAS	RETURN ACTIVATED SLUDGE
RR	RAIL ROAD
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN, ROAD
RDCR	REDUCER

MATERIAL SYMBOLS

	METAL
	BRICK
	CONCRETE MASONRY
	CONCRETE
	GROUT OR FINISHED CONCRETE
	INSULATION (RIGID)
	WOOD BLOCKING
	FINISHED WOOD OR PLYWOOD
	GRAVEL OR STONE
	EARTH

[illegible]

COMMONWEALTH OF VIRGINIA
STEWART W. HUBBELL
Stewart W. Hubbell
NO. 07420
PROFESSIONAL ENGINEER
7/10/90