

**FINAL CLOSURE PLAN
LOPEZ CANYON SANITARY LANDFILL
LAKE VIEW TERRACE, CALIFORNIA**

**VOLUME III OF IV
PARTIAL CLOSURE PLAN
(DRAWINGS)**

Prepared for

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1 February 1994

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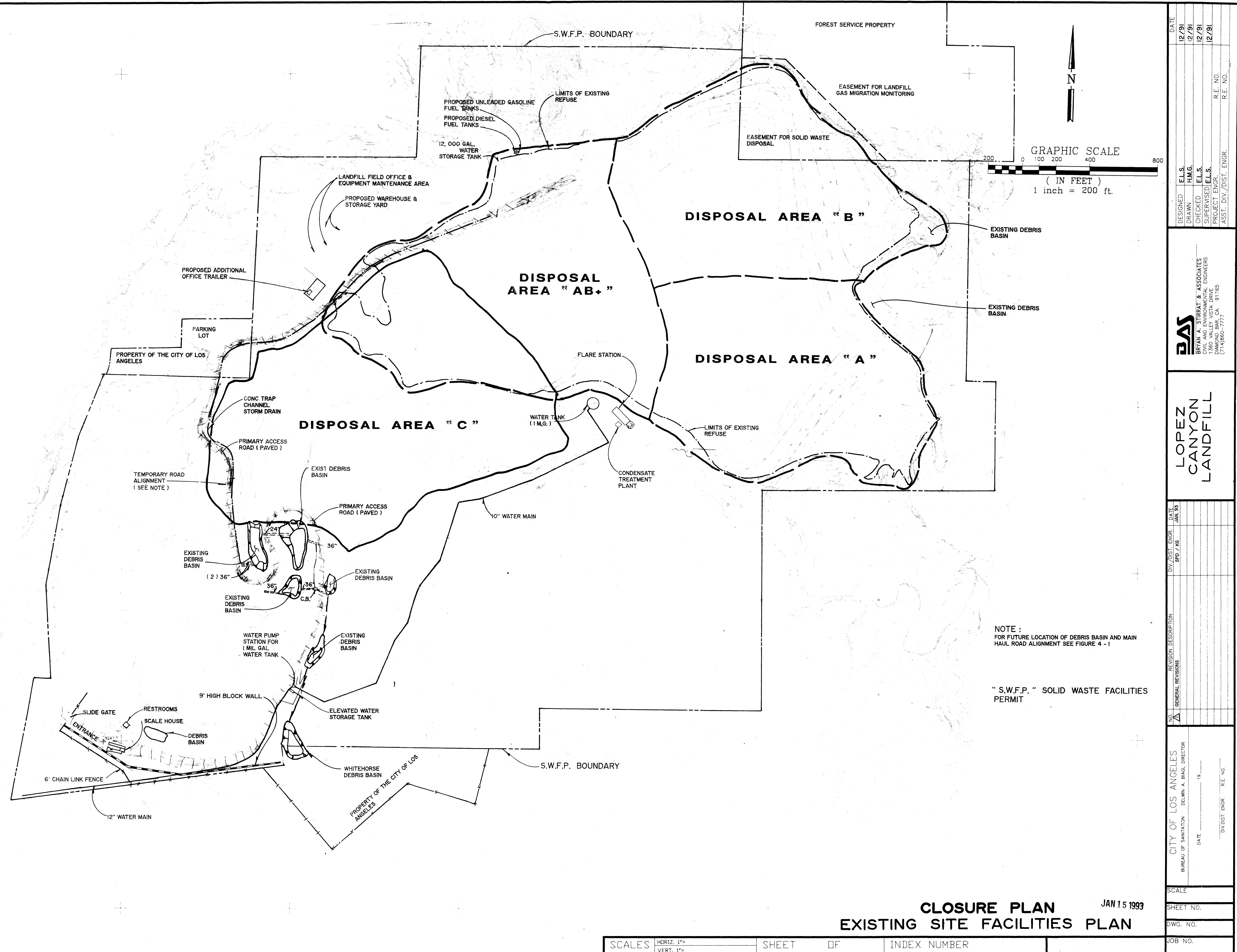
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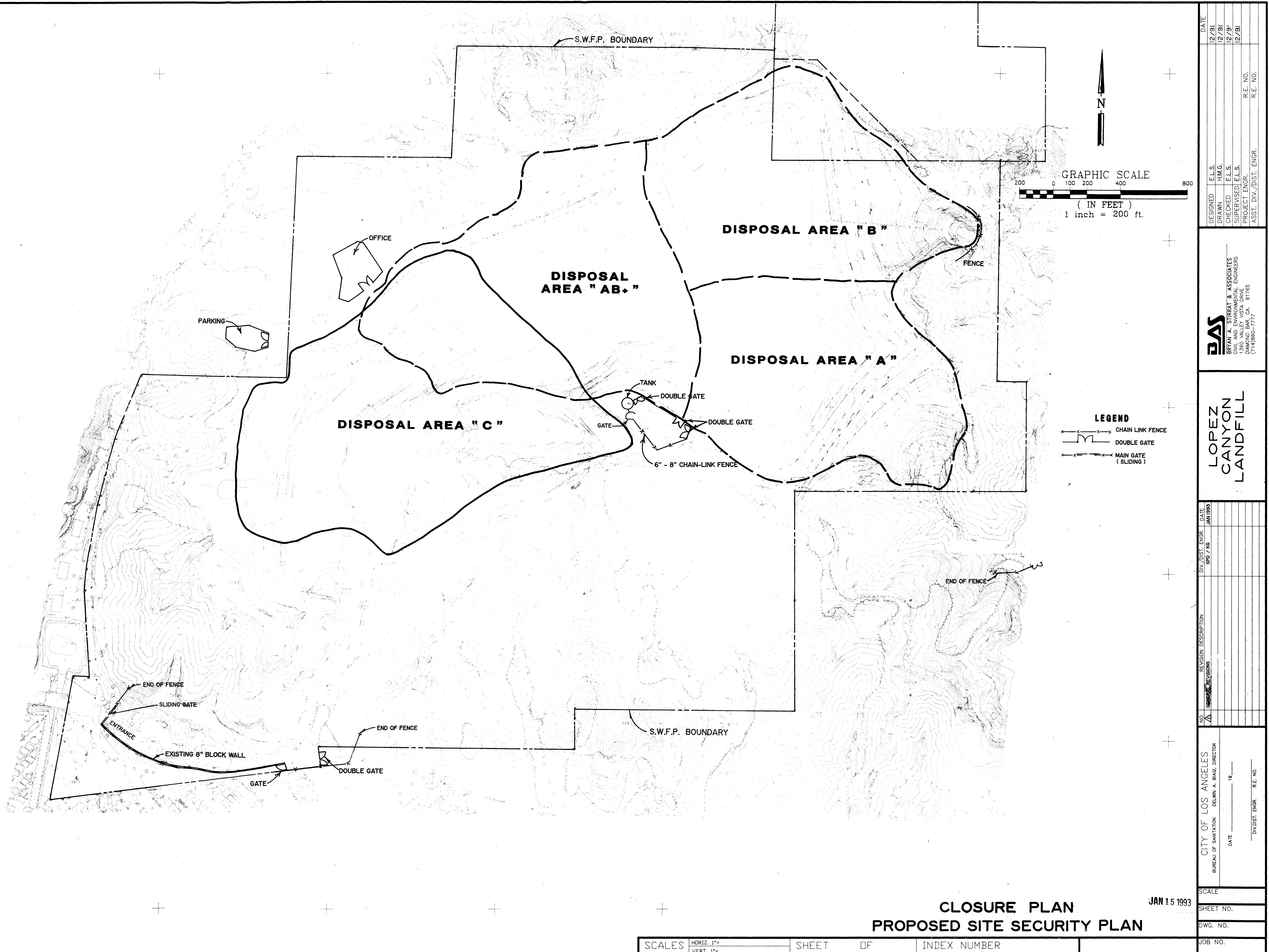
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DATE
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 PROJECT ENGR.
 ASST. DIV./DIST. ENGR.
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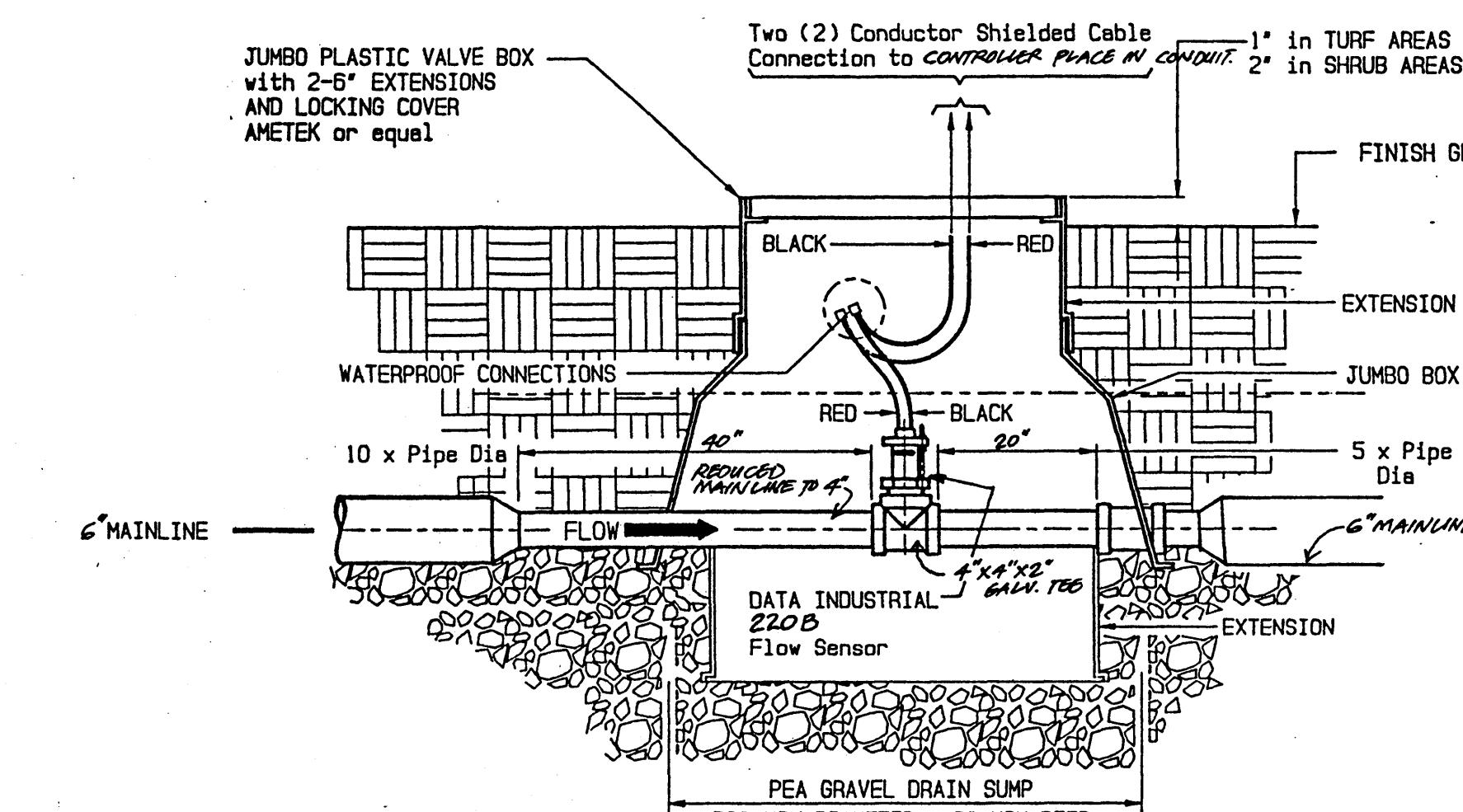


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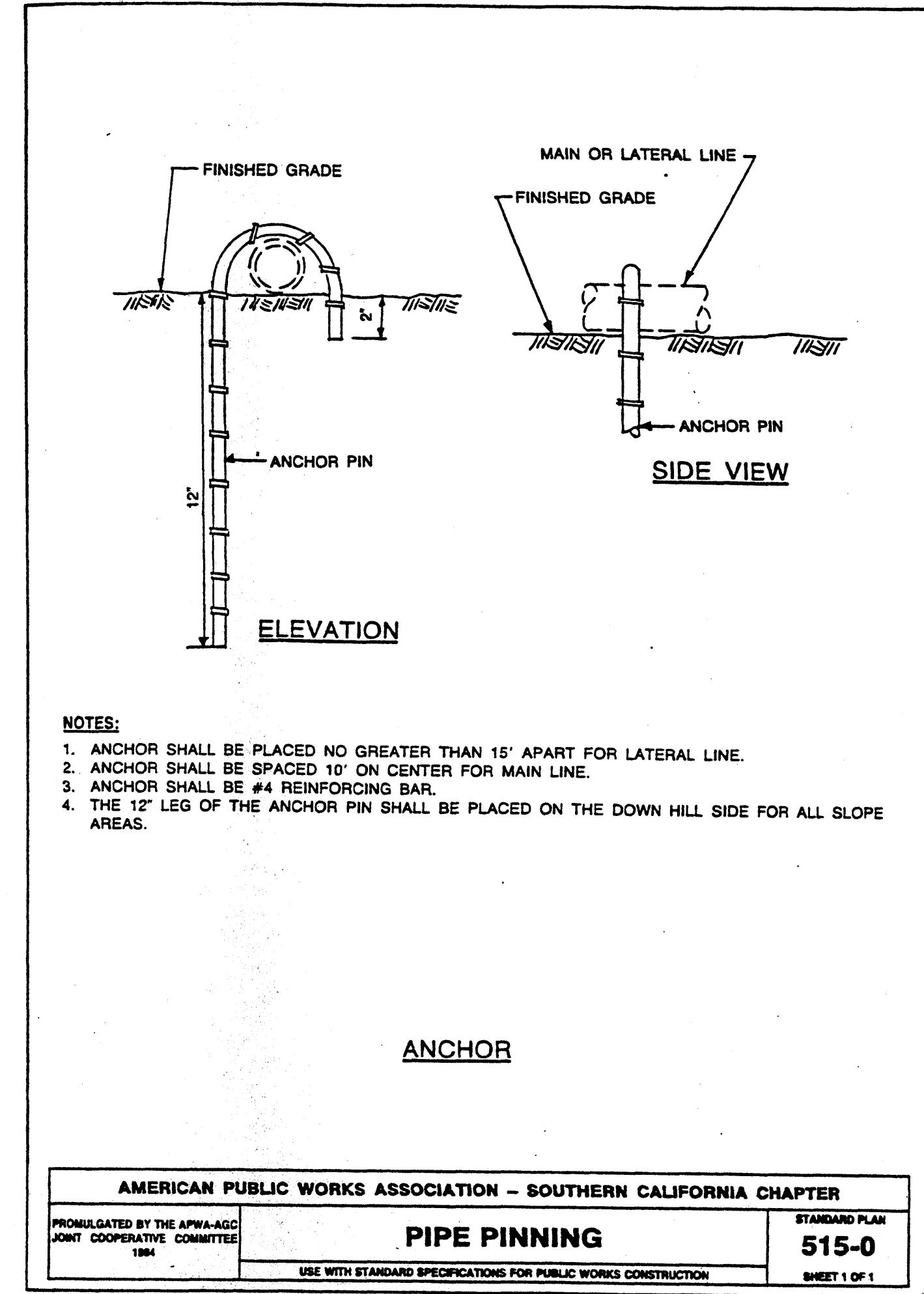
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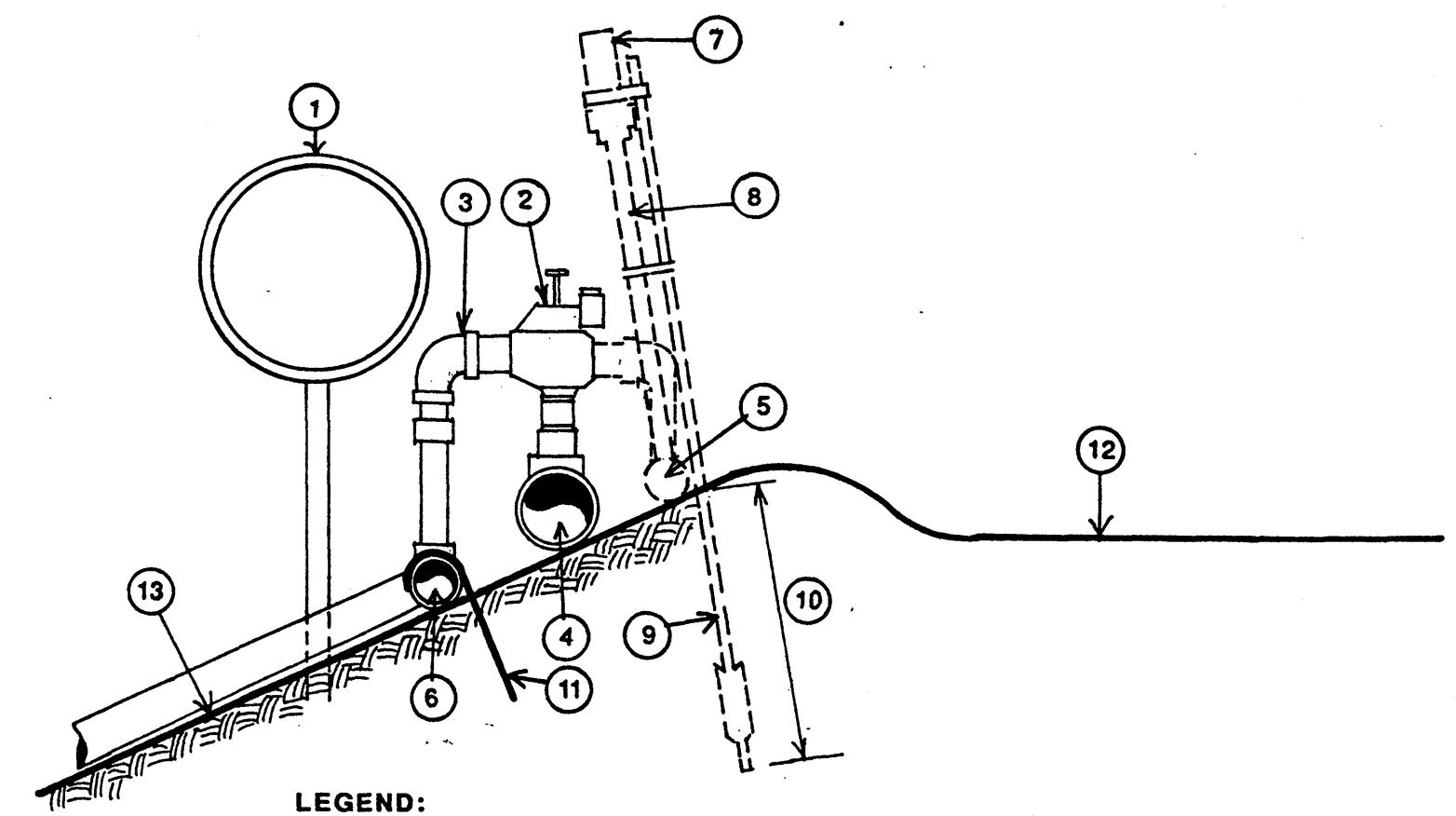
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N.T.S.



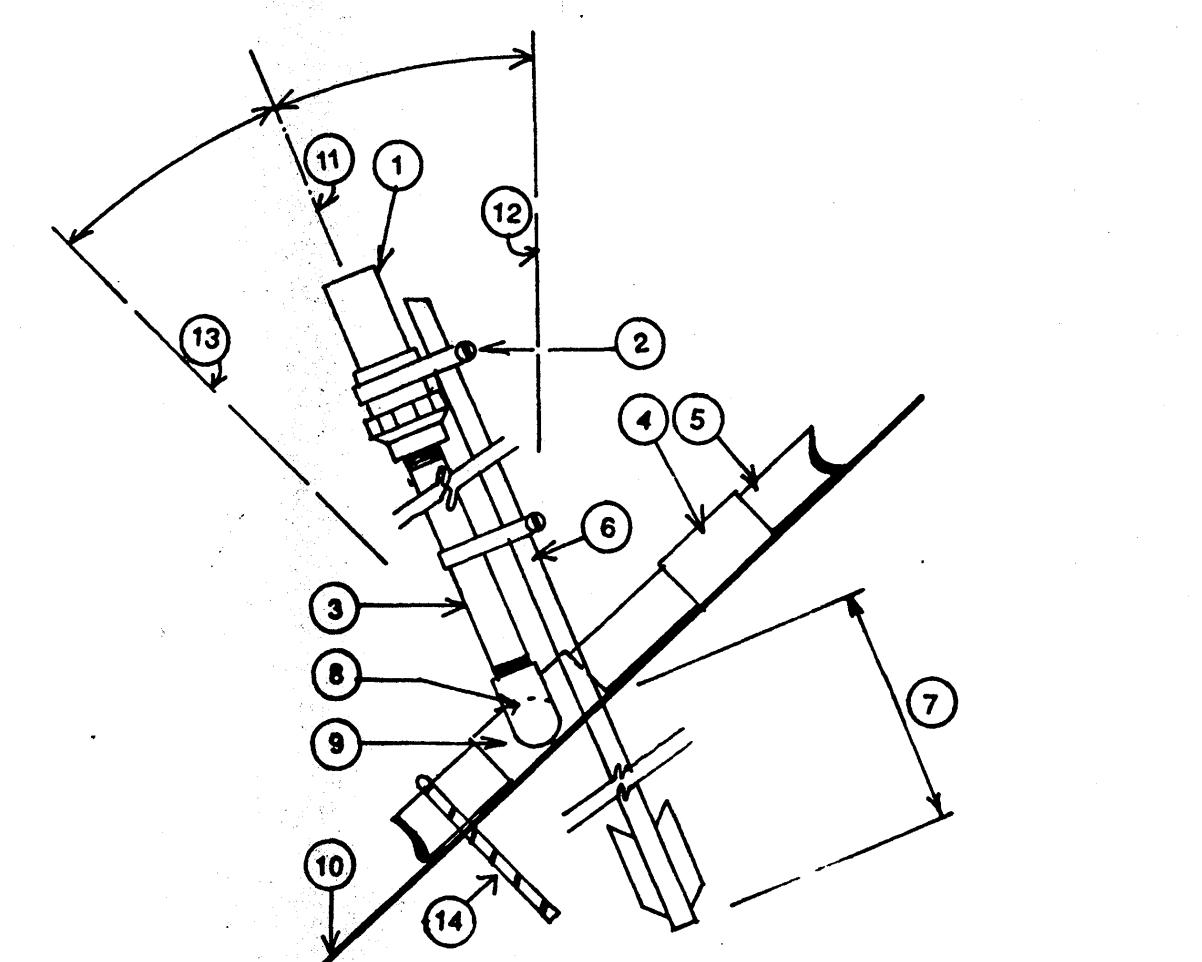
AMERICAN PUBLIC WORKS ASSOCIATION - SOUTHERN CALIFORNIA CHAPTER
PUBLISHED BY THE AMERICAN JOINT COOPERATIVE COMMITTEE
1984 STANDARD PLAN
515-0
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

PIPE PINNING

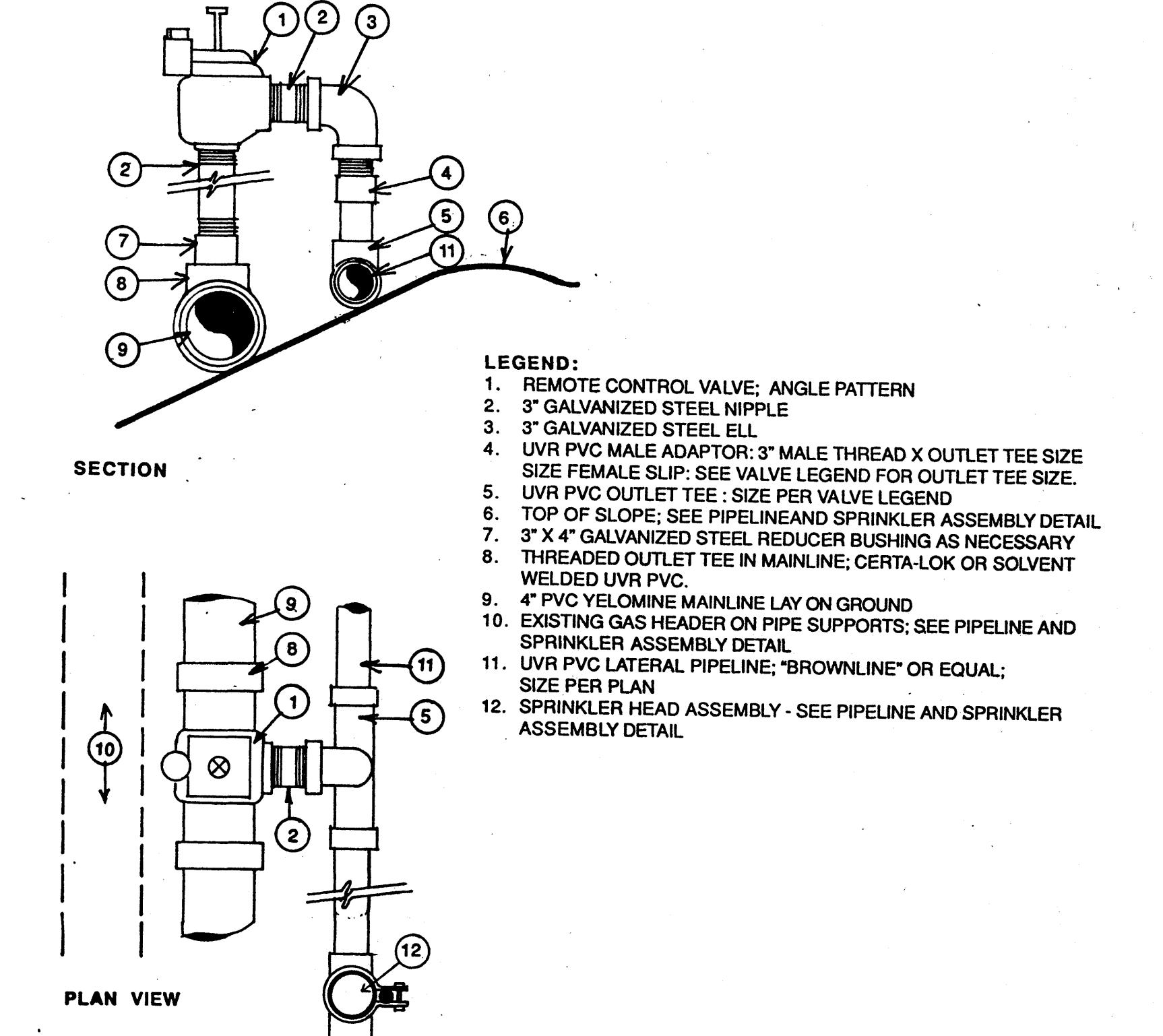
SHEET 1 OF 1



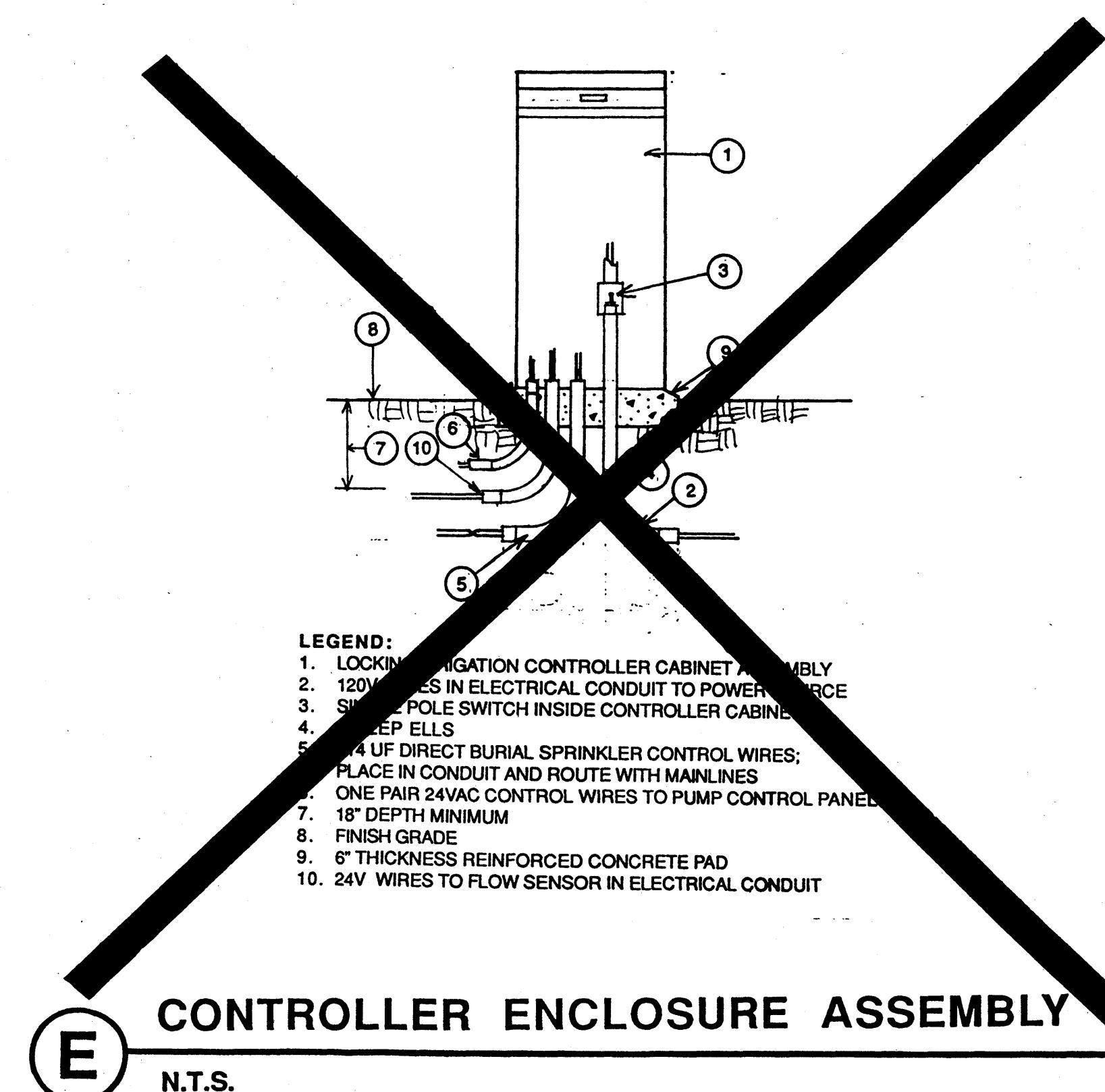
B PIPELINE & SPRINKLER ASSEMBLY



C SPRINKLER HEAD ASSEMBLY
ON SLOPE N.T.S.



A REMOTE CONTROL VALVE ASSEMBLY
N.T.S.



E CONTROLLER ENCLOSURE ASSEMBLY
N.T.S.

BAS
 RYAN A. STIBBART & ASSOCIATES
 CIVIL AND ENVIRONMENTAL ENGINEERS
 1350 VALLEY VISTA DRIVE
 DIAMOND BAR, CA 91765

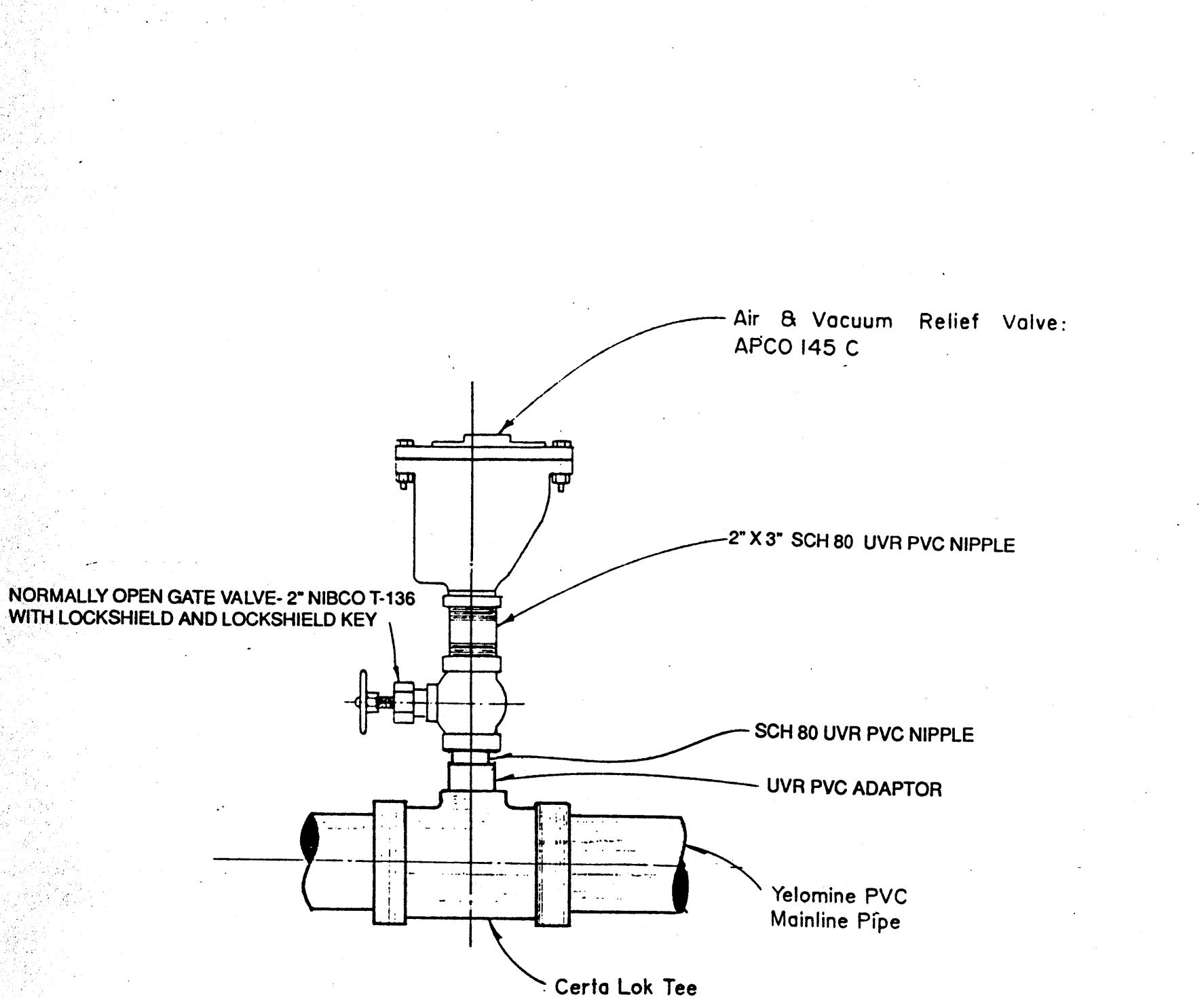
LOPEZ CANYON LANDFILL

DESIGNED	TB
DRAWN	W/TB
CHECKED	CA/
SUPERVISED	
PROJECT ENGR.	RE. NO.
ASST. DIV.	RE. NO.
DATE	11/7/91

NOTICE TO CONTRACTORS

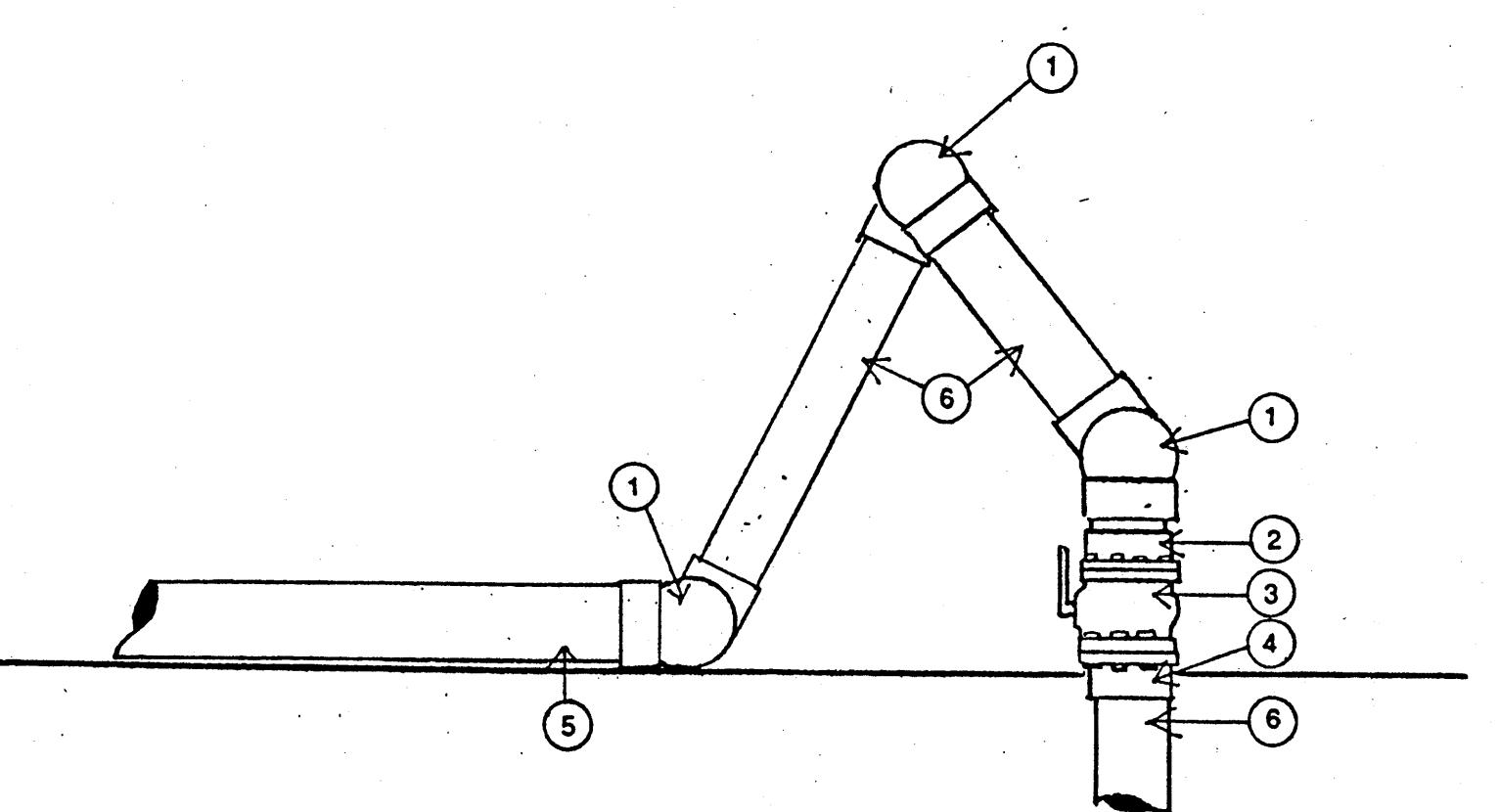
- SPECIFICATIONS:**
All work listed on these plans to be performed under contract shall, except as otherwise stated or provided for herein, be constructed in accordance with "Standard Specifications for Public Works Construction", 1988 Edition, with current supplements, section 212 and 308 and any other pertinent sections, and Standard Plan S-610-15.
- WORK CALLED FOR:**
This improvement consists of work called for only on these plans.
- STANDARD PLANS FOR THIS PROJECT:**
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION -1988 EDITION
- INSPECTIONS:**
All work shown in these plans is subject to inspection during construction. Call (818) 376-6962 24 hours prior to commencing any work.
The Contractor shall notify the Bureau of Sanitation, telephone (818) 376-6962 at least 48 hours prior to the inspections required so a representative can be present.
- APPROVALS:**
a. Plant material approval per Section 212-1.4.
b. Location and placement of plant material per Section 308-5.6.
c. Testing of main and lateral irrigation lines per Section 308-5.6.
d. Irrigation coverage test per Section 308-5.6.

- IRRIGATION PIPE:**
All pressurized lines, all risers, and all couplings shall be new P.V.C. Pipe, Schedule 80 as per Section 212-2.1 and/or as otherwise noted on the plans. Non-pressure lines shall be Schedule 40 P.V.C.
- ELECTRICAL GENERAL:**
All wiring shall be color coded for easy identification. The common wire color shall be white. All 120 volt wires shall be placed in a galvanized steel electric conduit and installed according to all codes and regulations applicable at the time of installation.
- ELECTRICAL CONDUIT:**
All rigid metal conduit shall be threaded, bushed and packing shall be placed on the ends to protect the wiring. All P.V.C. conduit shall be reamed, bushed and have packing placed on the ends of the conduit.
- AS-BUILT PLANS:**
A set of As-Built plans shall be given to the Bureau of Sanitation (818) 376-6962 when the work is terminated. The project will not be closed until these plans have been given to the Bureau.
- SERVICES:**
Electrical and water services will be provided by the City.
- Pipeline Trenching:**
Pressurized mainlines shall be trenched to a depth of 18 inches with electrical conduit below the mainline. Non-pressure laterals shall be trenched to a depth of 12 inches. Backfill and compaction per standard specifications.
- DAMAGE RESPONSIBILITY:**
The Contractor shall be responsible for the repair or replacement of all existing improvements which are not designated for removal which are damaged or removed as a result of the Contractor's operation.



F MASTER VALVE DETAIL

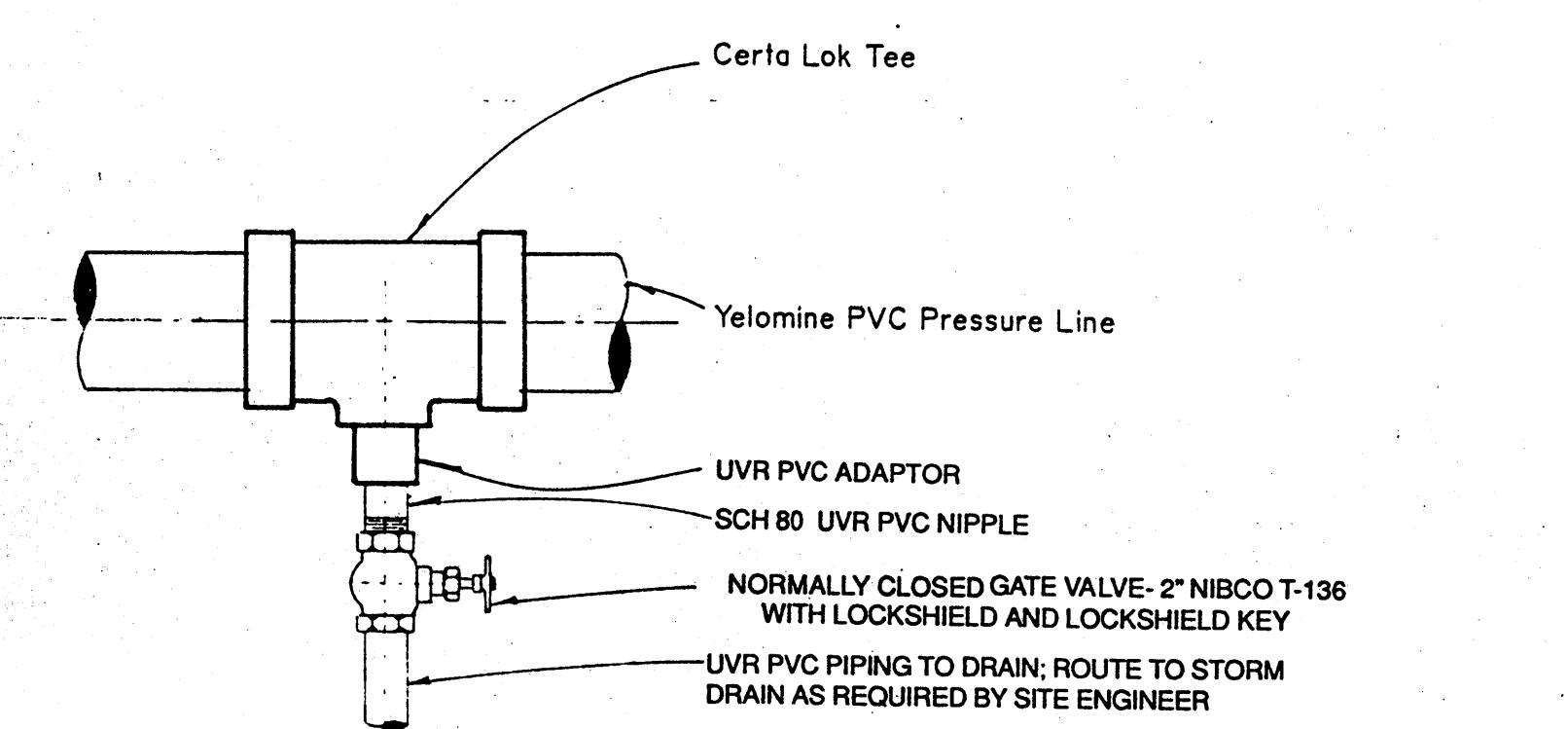
N.T.S.



E MAINLINE SWING JOINT AND ISOLATION VALVE ASSEMBLY

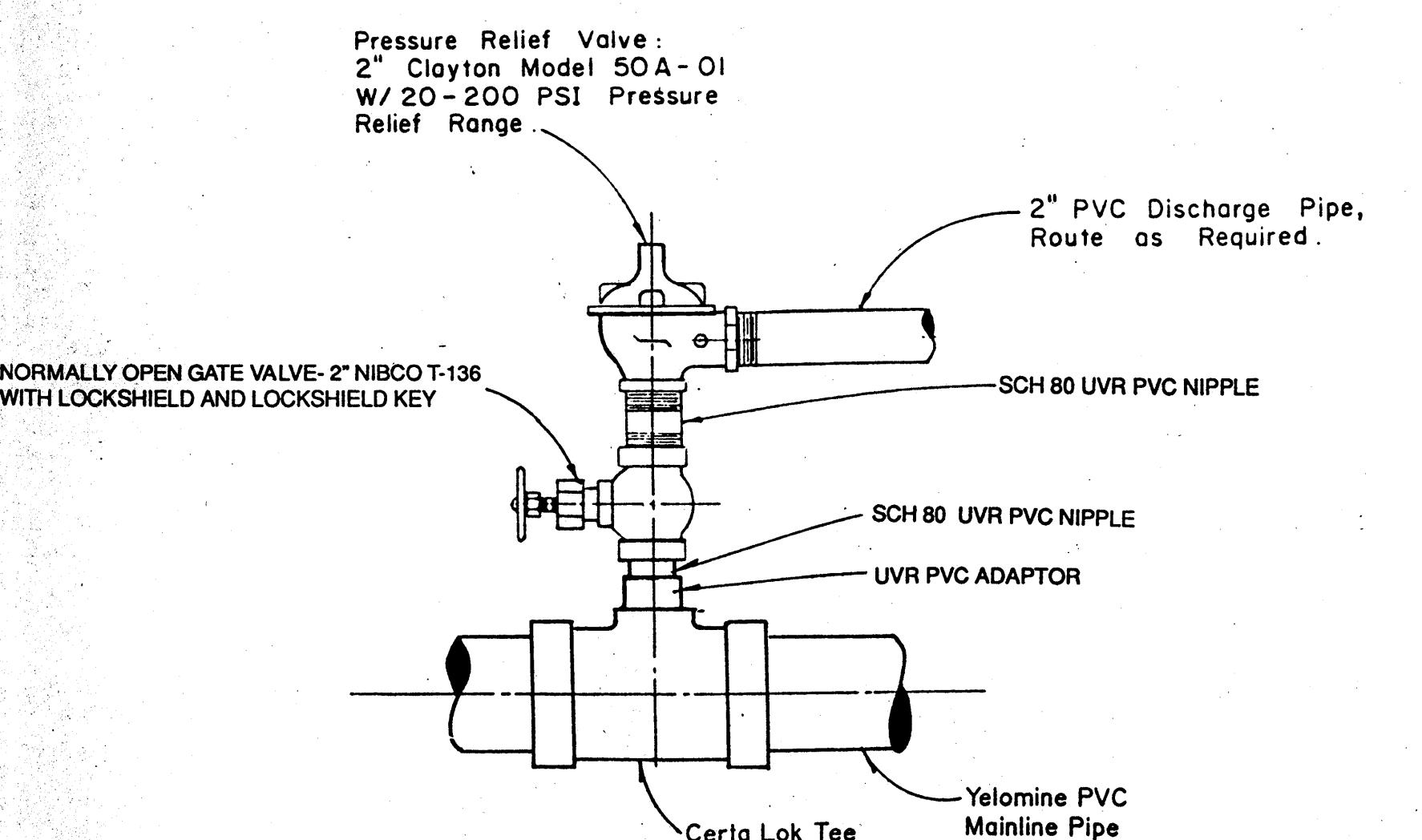
C AIR AND VACUUM RELIEF ASSEMBLY

N.T.S.



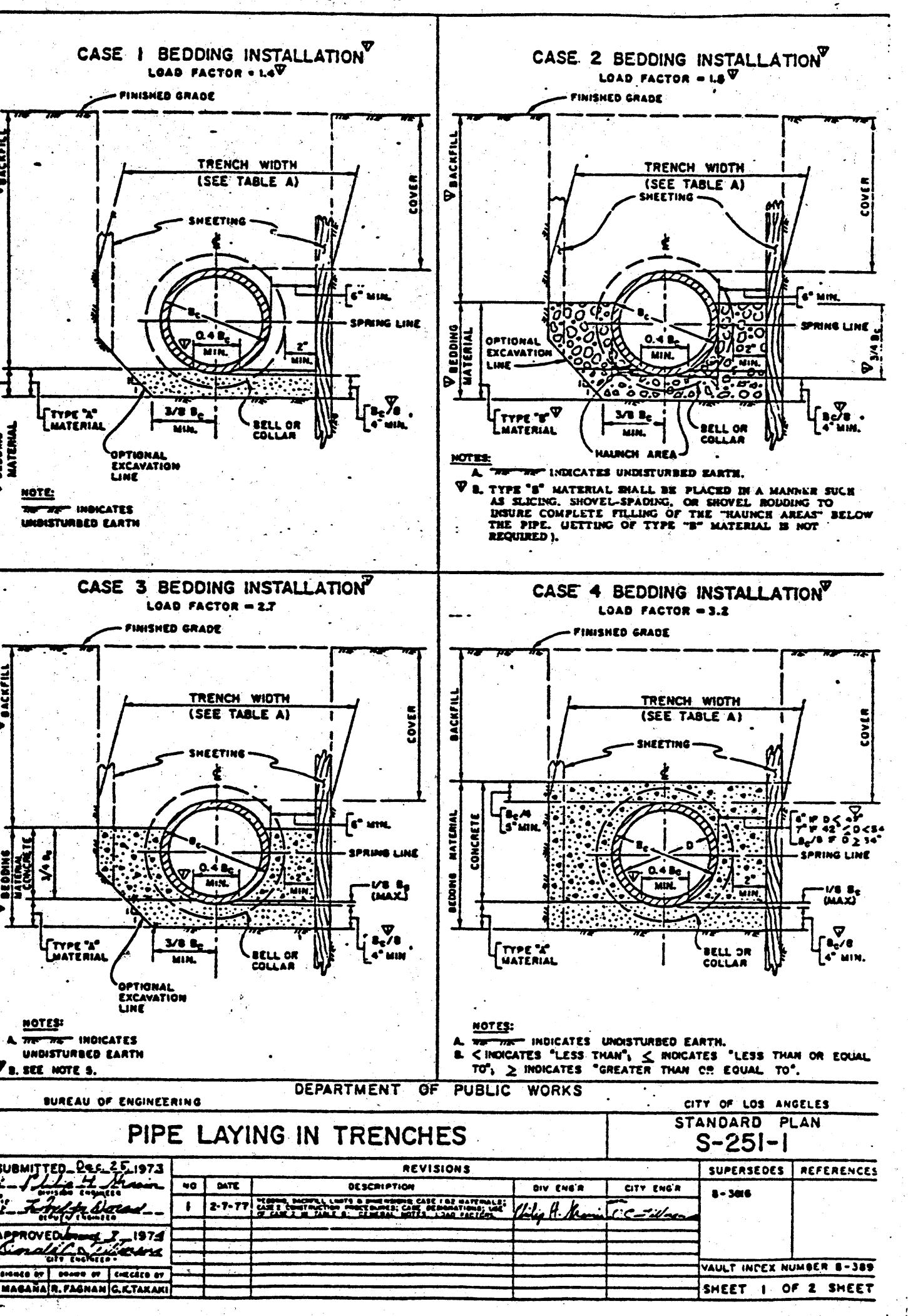
B BLOW-OFF ASSEMBLY

N.T.S.



A PRESSURE RELIEF VALVE ASSEMBLY

N.T.S.



D

AMERICAN PUBLIC WORKS ASSOCIATION - SOUTHERN CALIFORNIA CHAPTER

PRINCIPAL COORDINATOR: JEFFREY M. HARRIS

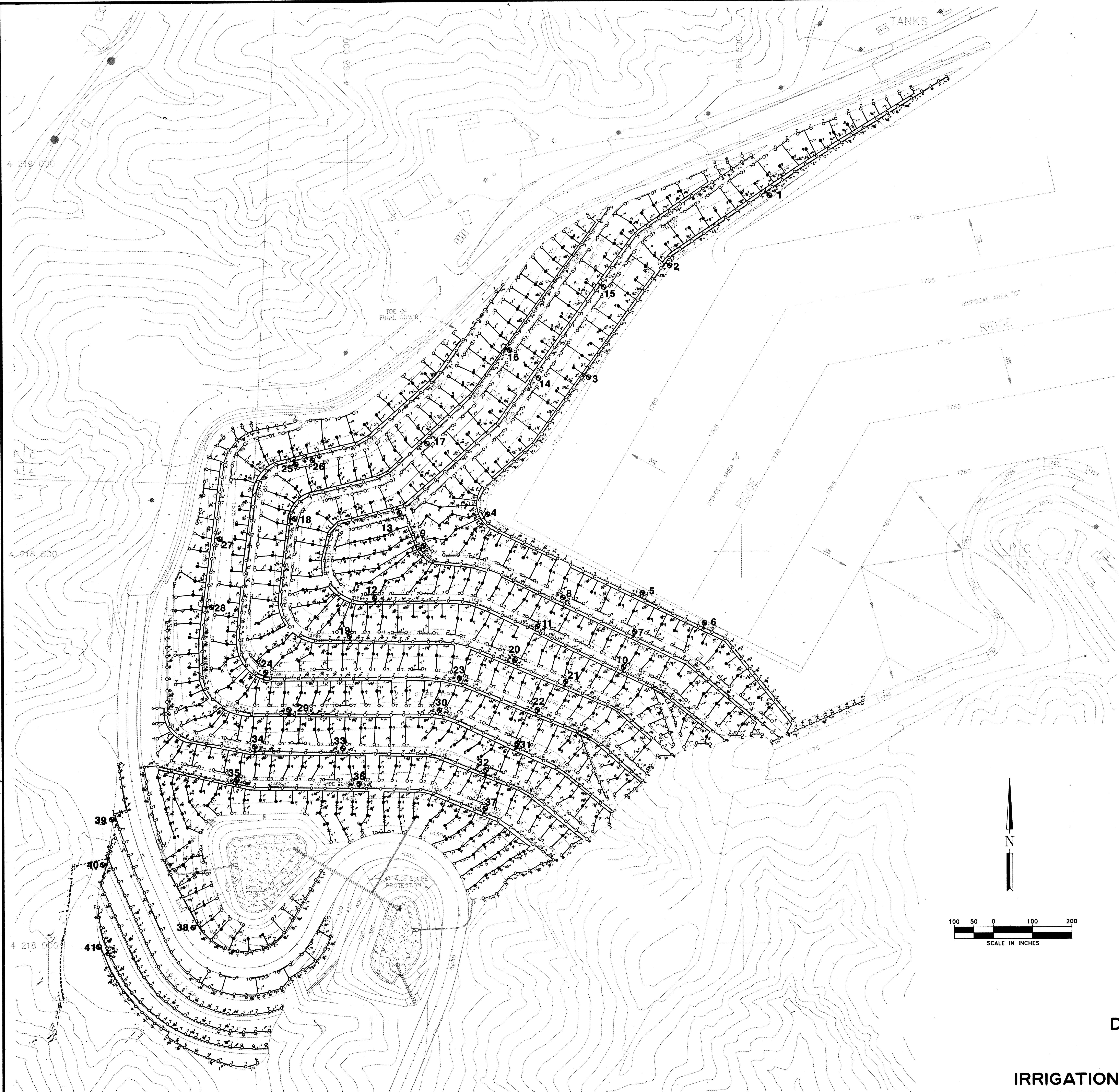
APPROVED: 1978

STANDARD PLAN: 508-0

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

SHEET 1 OF 2 SHEET

G



LATERAL LINE

SYMBOL	DESCRIPTION	MANUFACTURER / PART NUMBER	REMARKS
—	LATERAL PIPE ON SLOPE SURFACE	UVR PVC "BROWNLIN" OR EQUAL SCH 40 PV	SEE DETAILS AND SPECS.
—	IN-LINE SPRING LOADED CHECK VALVE - LINE SIZE	K.B.I. KC-2040S WITH 5 LB. SPRING	SEE SPECS
—	IN-LINE SWING CHECK VALVE	K.B.I. KSC-2040S	SEE SPECS
○	REMOTE CONTROL VALVE		SEE VALVE LEGEND

SPRINKLER HEAD LEGEND

SYMBOL	DESCRIPTION	MANUF. & PART #	NOZZLE	GPM	RAD.	PSI
○	ADJUSTABLE ARC ROTOR	HUNTER PGS-ADJ-C00-V	1	0.70	18-31	50
○			2	1.00	20-31	50
○			3	1.40	22-32	50
○			4	1.70	23-34	50
○			5	2.10	23-34	50
○			6	2.70	25-36	50
○			7	3.40	28-38	50
○			8	4.20	30-39	50
○			9	5.50	38-41	50
●	FULL CIRCLE ROTOR	HUNTER PGS-360-C00-V	1	0.70	18-31	50
●			2	1.00	20-31	50
●			3	1.40	22-32	50
●			4	1.70	23-34	50
●			5	2.10	23-34	50
●			6	2.70	25-36	50
●			7	3.40	28-38	50
●			8	4.20	30-39	50
●			9	5.50	38-41	50

BAS

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1350 VALLEY VISTA DRIVE
DAVISON BARR, CA 91765
(714) 560-7777

**LOPEZ
CANYON
LANDFILL**

CITY OF LOS ANGELES	REVISION DESCRIPTION	DIV/DIST. ENGR.	DATE
BUREAU OF SANITATION			
DELWINN A. BAGI, DIRECTOR			
DATE _____	19		

SCALE
1" = 100'

SHEET NO.

DWG. NO.

JOB NO.

DISPOSAL AREA "C" CLOSURE PLAN

IRRIGATION HEAD & LATERAL LINE PLAN

SCALES

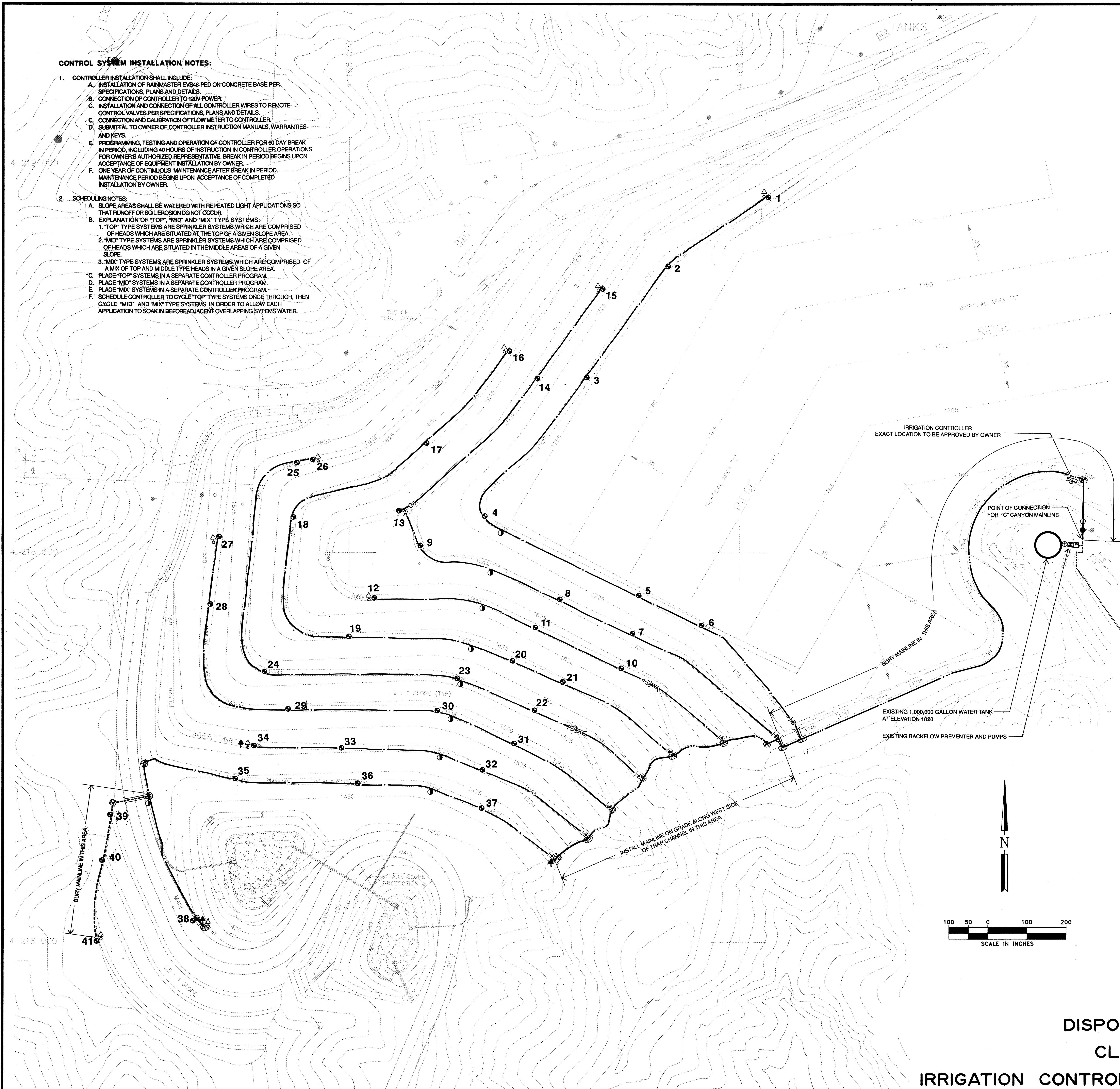
HORIZ. 1" = 100'
VERT. 1"

INDEX NUMBER

SHEET

OF

JAN 15 1993


EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER & PART NUMBER	REMARKS
■	REDUCED PRESSURE TYPE BACKFLOW PREVENTION ASSEMBLY	FEBCO 825 - 6"	
□	BOOSTER PUMP	CONSTANTFLO D300BP210P2-40-0-BP-KM	
●	MASTER VALVE	6" BERMAD 420-55 WITH 24V AC SOLENOID	SEE DETAIL
◎	GATE VALVE	6" NIBCO F-819 FLANGED	
○	REMOTE CONTROL SPRINKLER CONTROL VALVE	RAINBIRD EAV 300MFC	SEE DETAIL
△	AIR & VACUUM RELIEF COMBINATION VALVE	APCO 145C	SEE DETAIL
▲	PRESSURE RELIEF VALVE	2" CLAYTON MODEL 50A-01 WITH 20-200 PSI RELIEF RANGE	SEE DETAIL
○	BLOW OFF VALVE / DRAIN VALVE	2" NIBCO T136	SEE DETAIL
◆	MAINLINE SWING JOINT ASSEMBLY	PVC YELOMINE PRESSURE PIPE CERTA-LOK FITTINGS, NO VALVE	SEE DETAIL
○	MAINLINE SWING JOINT ASSEMBLY WITH ISOLATION VALVE	CERTA-LOK MANIFOLD ISOLATION VALVE WITH ISOLATION FLANGE TO YELOMINE	SEE DETAIL
○	FLOW SENSOR	DATA INDUSTRIAL 2200-1000 INSTALL ON 2" FTPI TEE ON MAINLINE	SEE DETAIL
—	PERMANENT MAINLINE	6" GALVANIZED STEEL	SEE DETAIL
—	EXISTING MAINLINE	4" CLASS 250 CERTA-LOK FITTINGS	SEE DETAIL
—	YELOMINE PVC PRESSURE LINE	4" YELOMINE PVC PRESSURE LINE SOLVENT WELD FITTINGS	SEE DETAIL
—	BURIED PVC PRESSURE LINE	SOLVENT WELD FITTINGS RAINMASTER EV-SEN CIRCUIT BOARD	SEE DETAIL
—	IRRIGATION CONTROLLER	PLACE IN SCH. 40 SLEEVE WITH EV-SEN CIRCUIT BOARD	SEE SPECS.
—	CONTROL WIRING IN CONDUIT	DATA INDUSTRIAL 2200-1000 PLACE IN SCH. 40 SLEEVE BENEATH ACCESS ROADS	SEE SPECS.
—	SCHEDULE 40 SLEEVE	SLEEVE PRESSURE LINES BENEATH ACCESS ROADS	
—	CONCRETE THRUST BLOCK	SEE DETAIL	

BAS
BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1380 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
(714)966-7777

LOPEZ CANYON LANDFILL

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE
SUPERVISED BY DATE
PROJECT ENGR.
ASST. DIV./DIST. ENGR.

SCALE: 1"- 100'
SHEET NO. _____
DWG. NO. _____

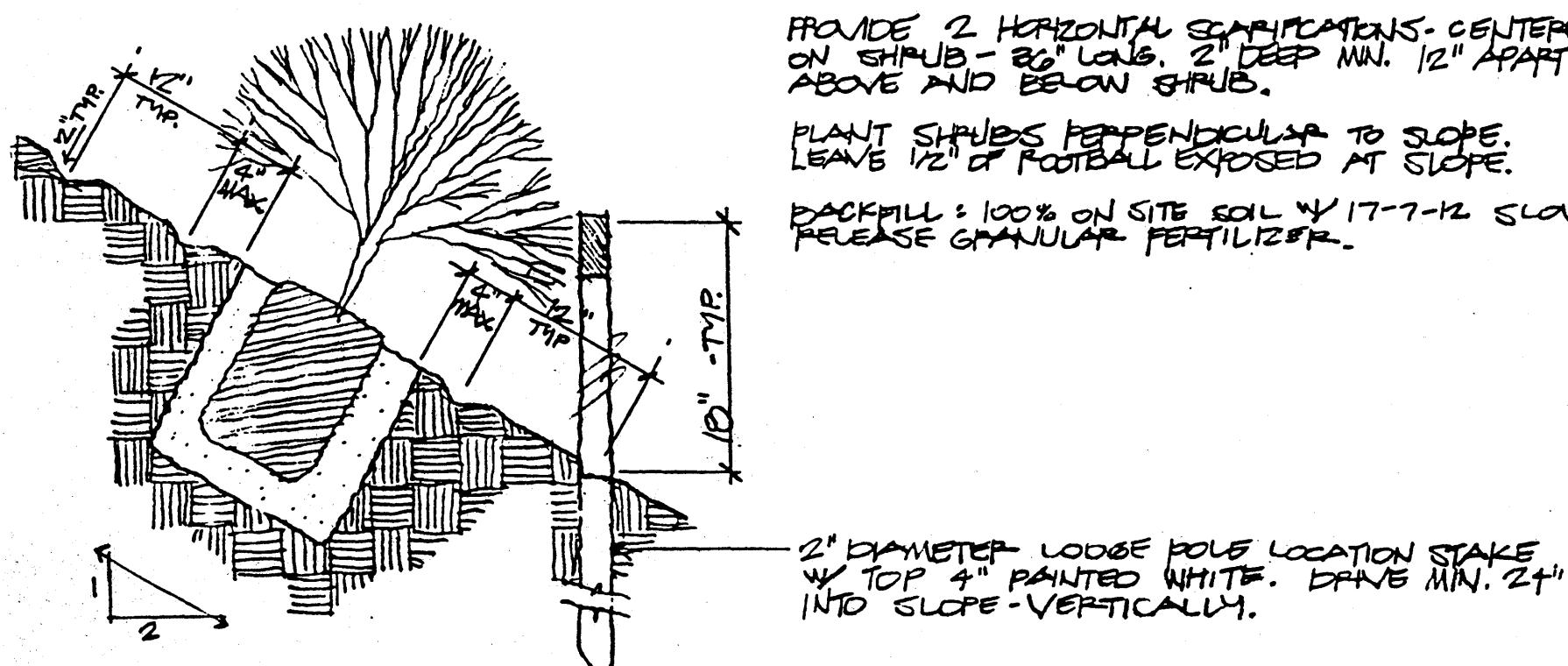
JOB NO. _____

VALVE LEGEND

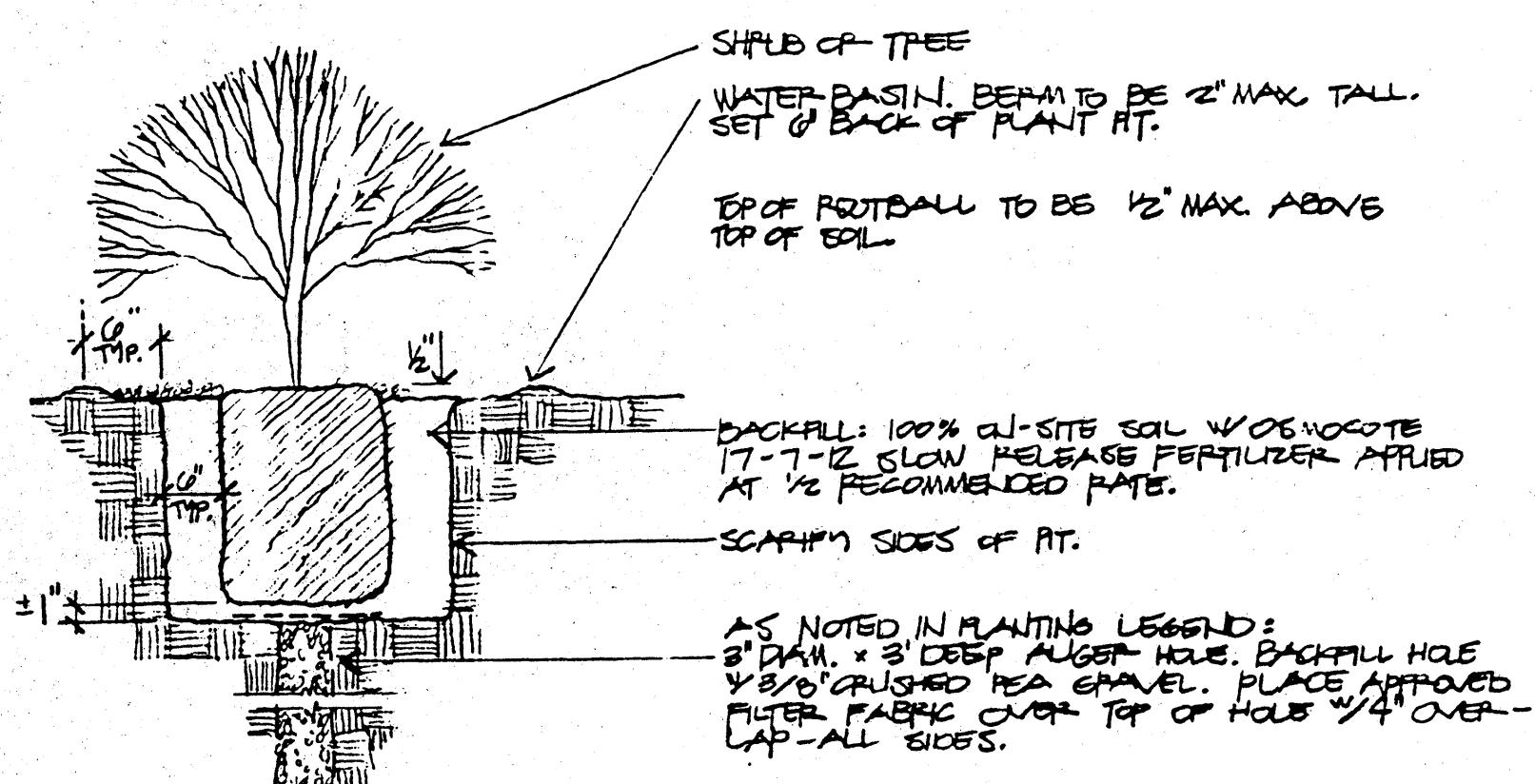
VALVE NO.	SYSTEM TYPE	GPM	OUTLET SIZE	HIGHEST HEAD ELEVATION	STATIC VALVE	DISTANCE TO TANK	MAIN PRESS. PSI	MIN. PSI REQUIRED	PSI BOOST
1	MID/BOT	167.6	4"	1745	32.3	3,455 lin. ft.	34.6	38.0	-50.0
2	TOP	165.6	4"	1760	25.8	3,155 lin. ft.	31.6	38.0	93.8 psi
3	MID/BOT	167.0	4"	1745	32.3	2,795 lin. ft.	28.0	38.0	83.7 psi
4	MID/BOT	176.3	4"	1730	38.7	2,335 lin. ft.	23.4	38.0	72.7 psi
5	TOP	166.8	3"	1755	28.0	1,985 lin. ft.	19.0	38.0	79.0 psi
6	MID/BOT	176.3	4"	1730	30.1	1,785 lin. ft.	16.0	38.0	75.0 psi
7	MID/BOT	182.0	4"	1726	40.4	1,075 lin. ft.	19.8	38.0	50.0
8	TOP	127.2	3"	1735	36.6	2,075 lin. ft.	20.8	38.0	72.2 psi
9	MID/BOT	180.7	4"	1695	53.8	2,475 lin. ft.	24.8	38.0	50.0
10	MID/BOT	139.9	3"	1667	65.8	1,905 lin. ft.	19.1	38.0	41.3 psi
11	TOP	111.5	3"	1695	53.8	2,145 lin. ft.	21.5	38.0	55.7 psi
12	MID/BOT	168.0	4"	1662	67.9	2,945 lin. ft.	25.5	38.0	45.5 psi
13	TOP	190.3	4"	1662	67.9	2,995 lin. ft.	28.0	38.0	46.0 psi
14	MID/BOT	160.0	4"	1700	51.0	3,035 lin. ft.	21.0	38.0	50.0 psi
15	MID/BOT	172.5	4"	1700	51.6	3,205 lin. ft.	34.0	38.0	70.4 psi
16	MID/BOT	171.8	4"	1660	68.8	3,780 lin. ft.	37.8	38.0	50.0
17	TOP	145.5	3"	1680	60.2	3,450 lin. ft.	34.5	38.0	62.3 psi
18	MID/BOT	174.1	4"	1643	76.1	3,050 lin. ft.	30.5	38.0	42.4 psi
19	MID/BOT	132.2	3"	1620	86.0	2,620 lin. ft.	28.2	38.0	28.2 psi
20	TOP	104.0	3"	1635	79.6	2,165 lin. ft.	21.7	38.0	30.1 psi
21	MID/BOT	132.0	3"	1625	85.9	2,365 lin. ft.	20.8	38.0	24.6 psi
22	MID/BOT	172.4	4"	1655	101.1	2,135 lin. ft.	31.4	38.0	50.0 psi
23	TOP	104.7	3"	1601	94.2	2,365 lin. ft.	22.7	38.0	17.5 psi
24	MID/BOT	169.4	4"	1580	103.2	2,805 lin. ft.	28.9	38.0	50.0
25	MID/BOT	174.1	4"	1605	92.5	3,485 lin. ft.	34.9	38.0	30.4 psi
26	TOP	127.2	3"	1627	83.0	3,535 lin. ft.	35.4	38.0	50.0
27	TOP	97.5	3"	1570	107.5	3,050 lin. ft.	34.4	38.0	14.9 psi
28	MID/BOT	132.0	3"	1550	116.1	3,260 lin. ft.	32.6	38.0	4.5 psi
29	MID/BOT	132.0	3"	1550	114.0	2,885 lin. ft.	28.8	38.0	2.6 psi
30	TOP	102.0	3"	1550	111.0	2,750 lin. ft.	34.5	38.0	0.0 psi
31	MID/BOT	132.8	3"	1545	118.3	2,210 lin. ft.	22.1	38.0	50.0
32	MID/BOT	134.1	3"	1500	137.6	2,380 lin. ft.	23.8	38.0	0.0 psi
33	TOP	135.9	3"	1520	129.0	2,760 lin. ft.	27.6	38.0	0.0 psi
34	MID/BOT	138.9	3"	1500	137.6	2,970 lin. ft.	29.7	38.0	0.0 psi
35	MID/BOT	201.4	4"	1485	144.1	3,040 lin. ft.	30.4	38.0	50.0
36	MID/BOT	148.2	4"	1490	147.0	2,770 lin. ft.	27.7	38.0	50.0
37	MID/BOT	148.4	4"	1475	148.4	2,770 lin. ft.	23.7	38.0	50.0
38	MX	160.1	3"	1475	148.4	2,770 lin. ft.	23.7	38.0	50.0
39	MX	136.2	3"	1490	141.9	3,480 lin. ft.	34.8	38.0	50.0
40	MX	142.3	3"	1525	126.9	3,500 lin. ft.	35.0	38.0	50.0
41	MX	102.4	3"	1545	118.3	3,705 lin. ft.	37.1	38.0	50.0

GENERAL NOTES:

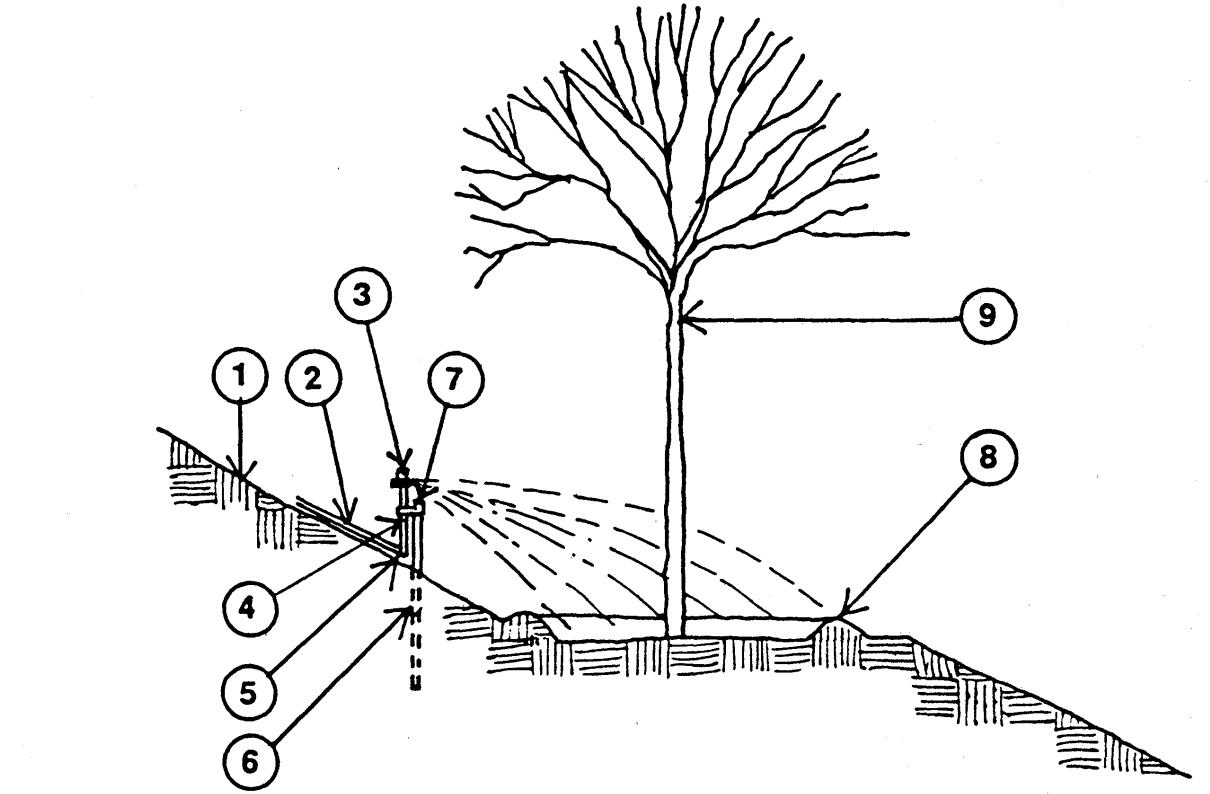
1. PLACE ALL CONTROLLER WIRES IN PVC CLASS 180 UVR CONDUIT AND ROUTE ALONGSIDE MAINLINES WHERE MAINLINES ARE BURIED OR SLEEVED BEHIND ROADWAYS, ALSO BURY AND SLEEVE CONTROLLER WIRES.
2. USE CERTA-LOK RESTRAINED JOINT FITTINGS WHEREVER POSSIBLE ON ABOVE GRADE YELOMINE PIPE RUNS (FOR LATER DISASSEMBLY), WHERE CONDITIONS REQUIRE CUTTING YELOMINE PIPE, SOLVENT WELD UVR PVC FITTINGS MAY BE USED.
3. PLACE THRUST BLOCKS AS NECESSARY, AND WHERE INDICATED ON PLANS.
4. REFER TO 'NOTICE TO CONTRACTORS' FOR ADDITIONAL SPECIFICATIONS.



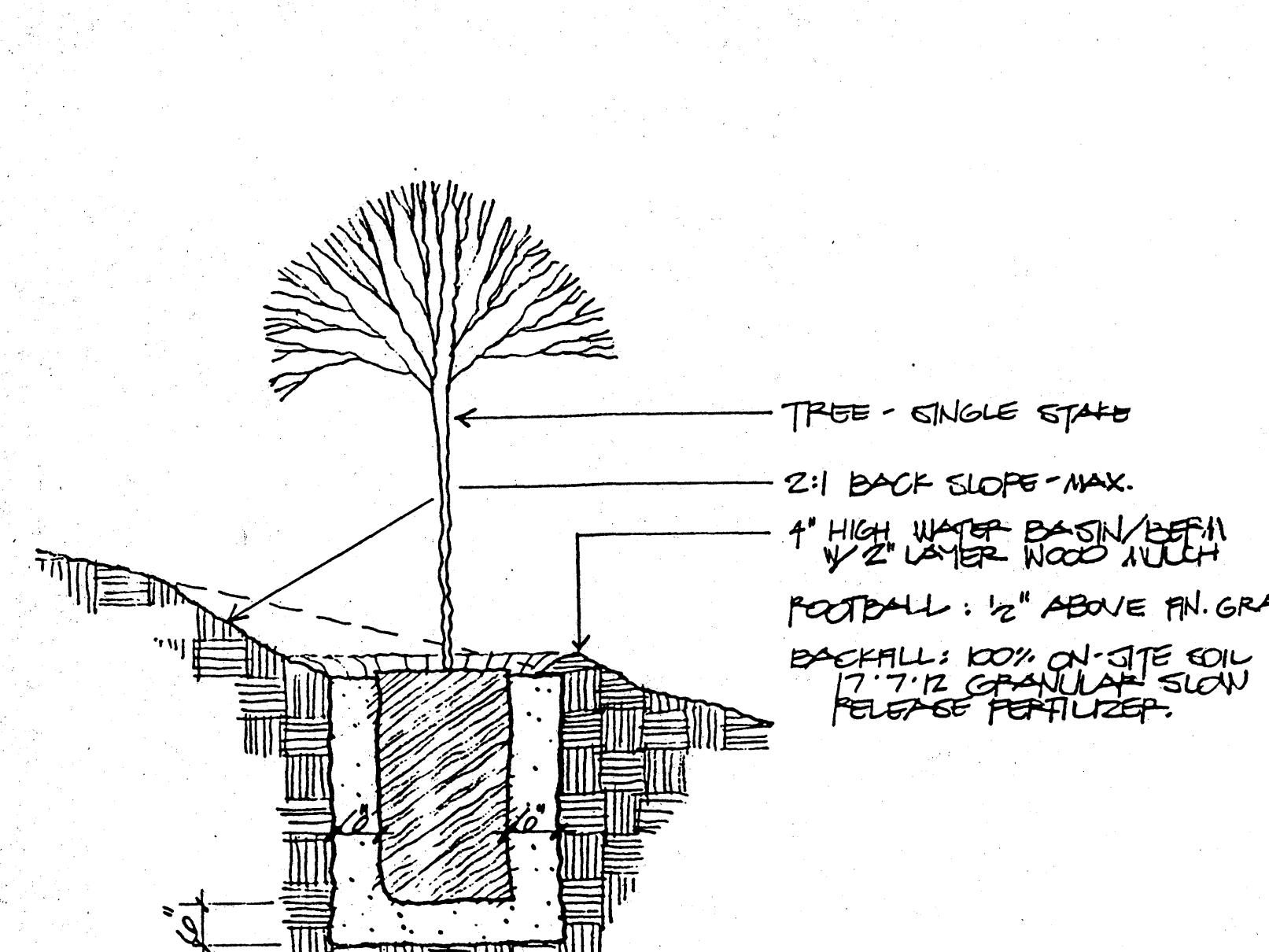
T NATIVE SHRUB PLANTING
For 2:1 Slopes N.T.S.



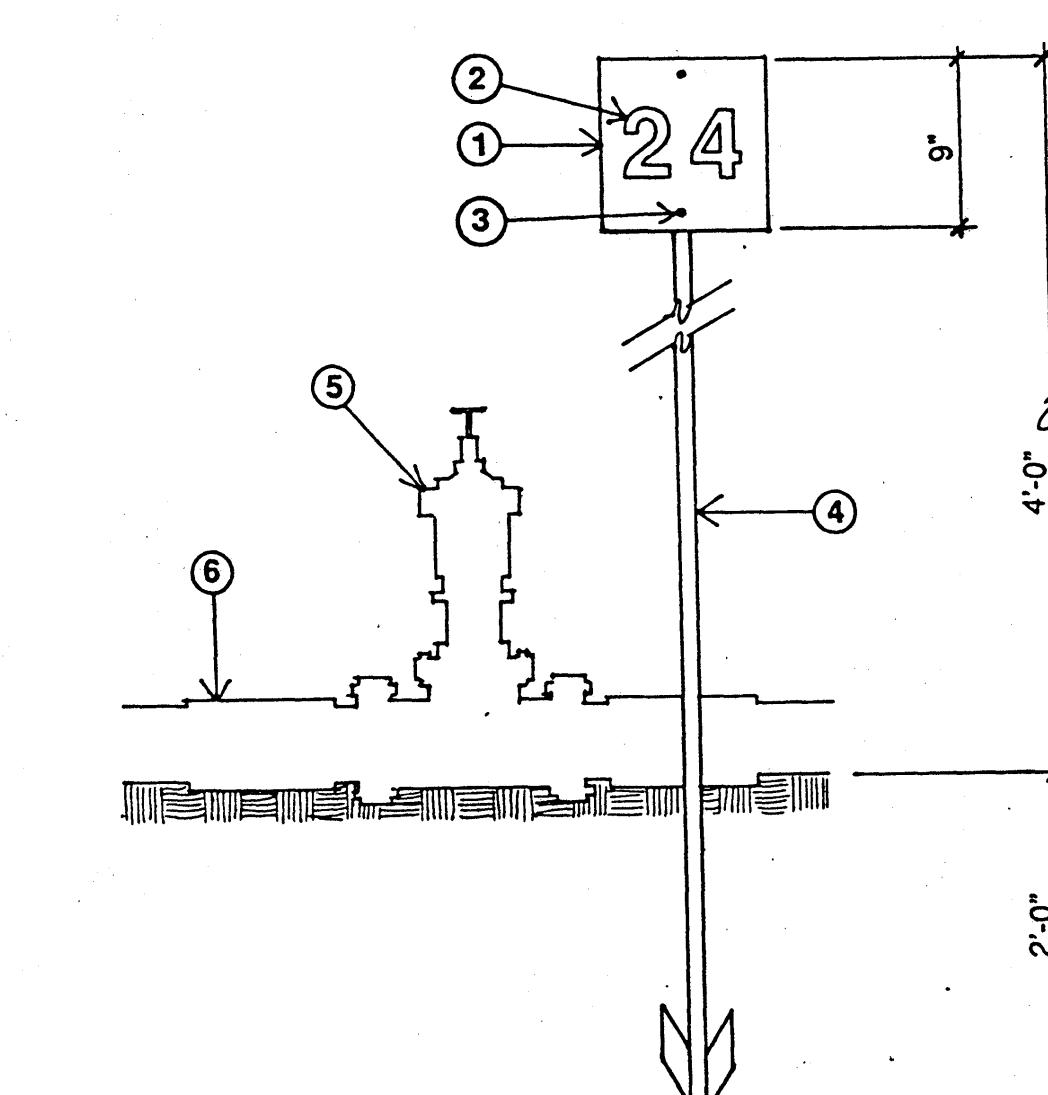
U NATIVE TREE/ SHRUB PLANTING
N.T.S.



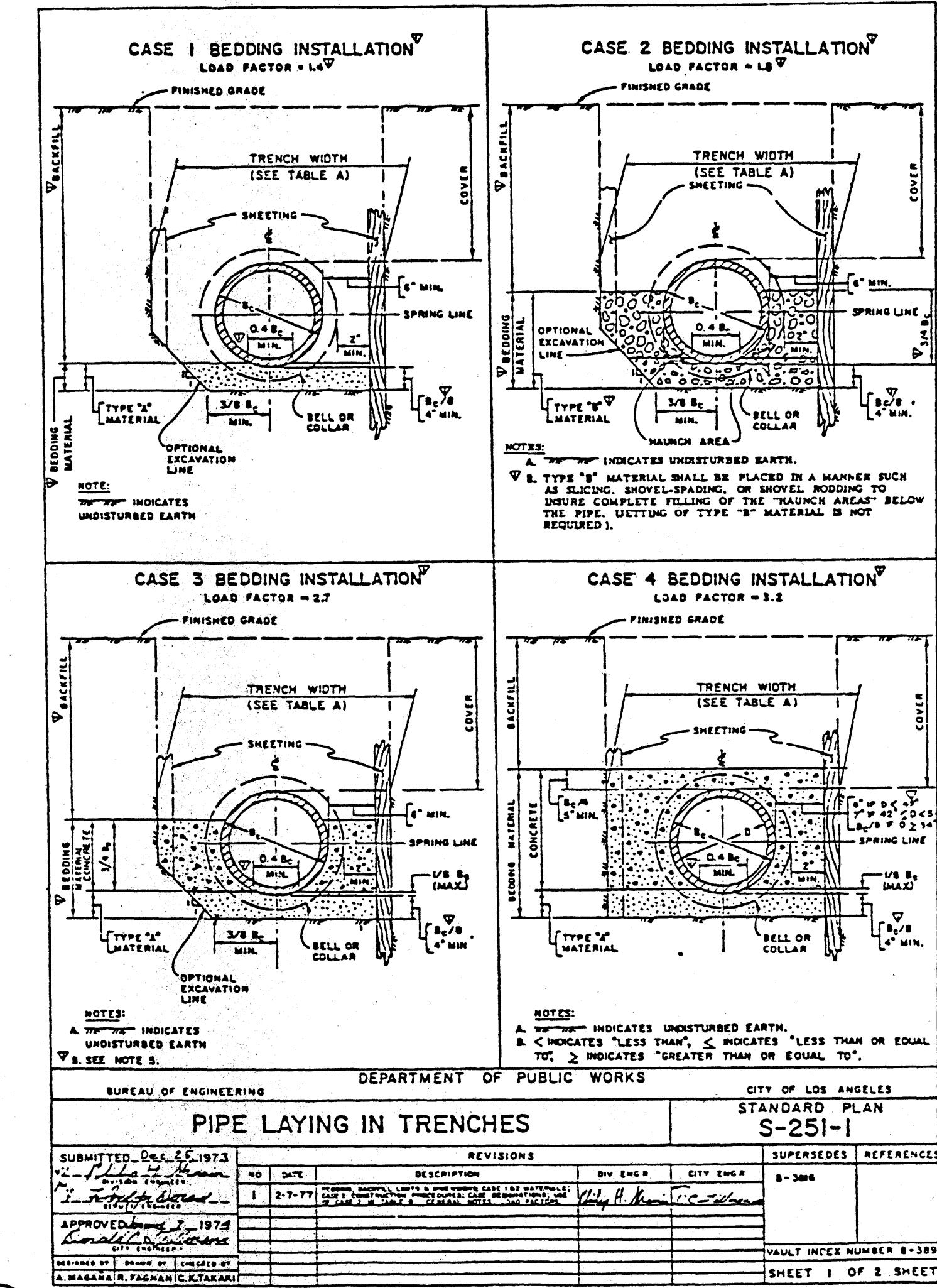
R SPRAY HEAD
NOT TO SCALE



V NATIVE TREE PLANTING
For 4:1 Slope & Less N.T.S.

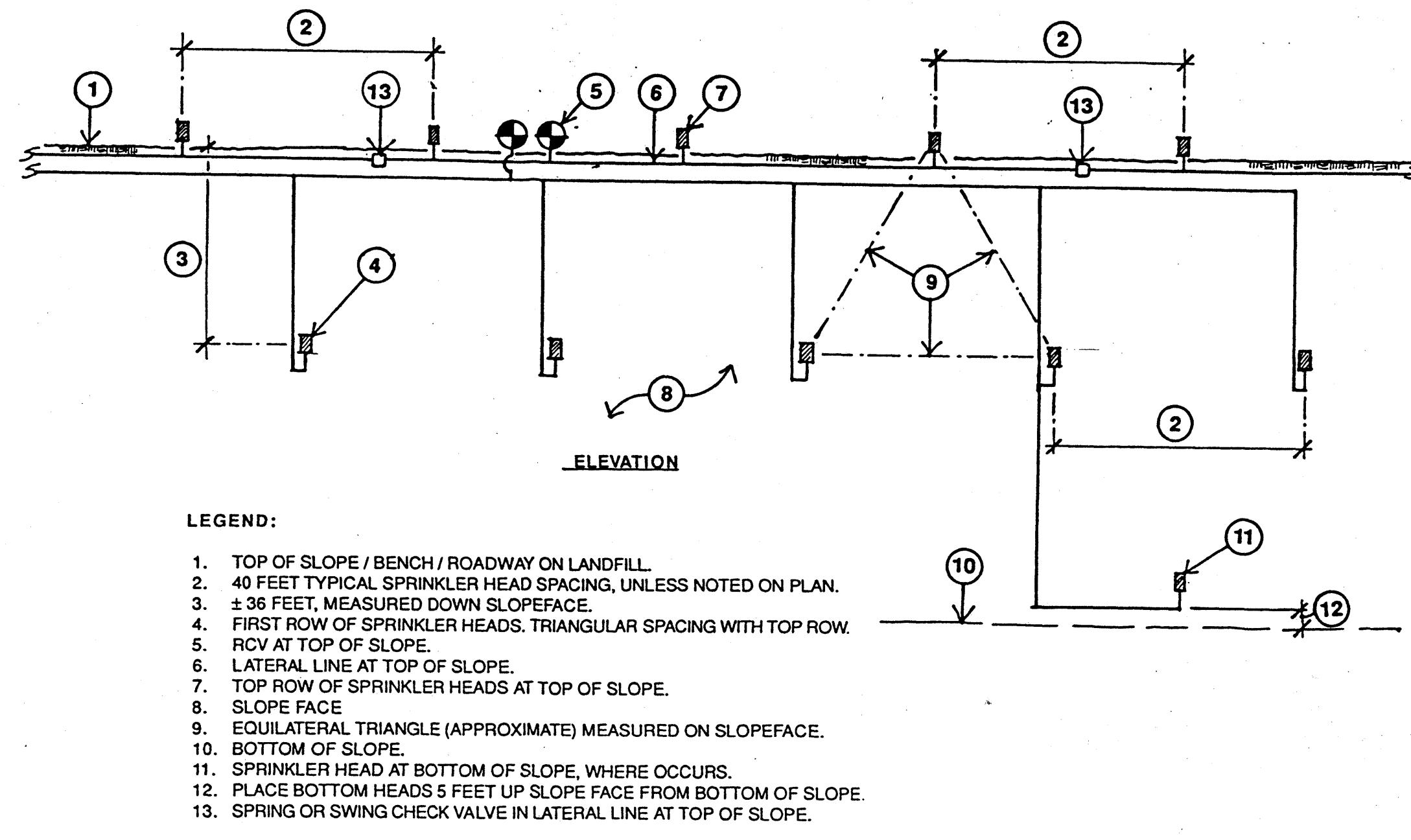


S R.C.V IDENTIFICATION SIGN
NOT TO SCALE

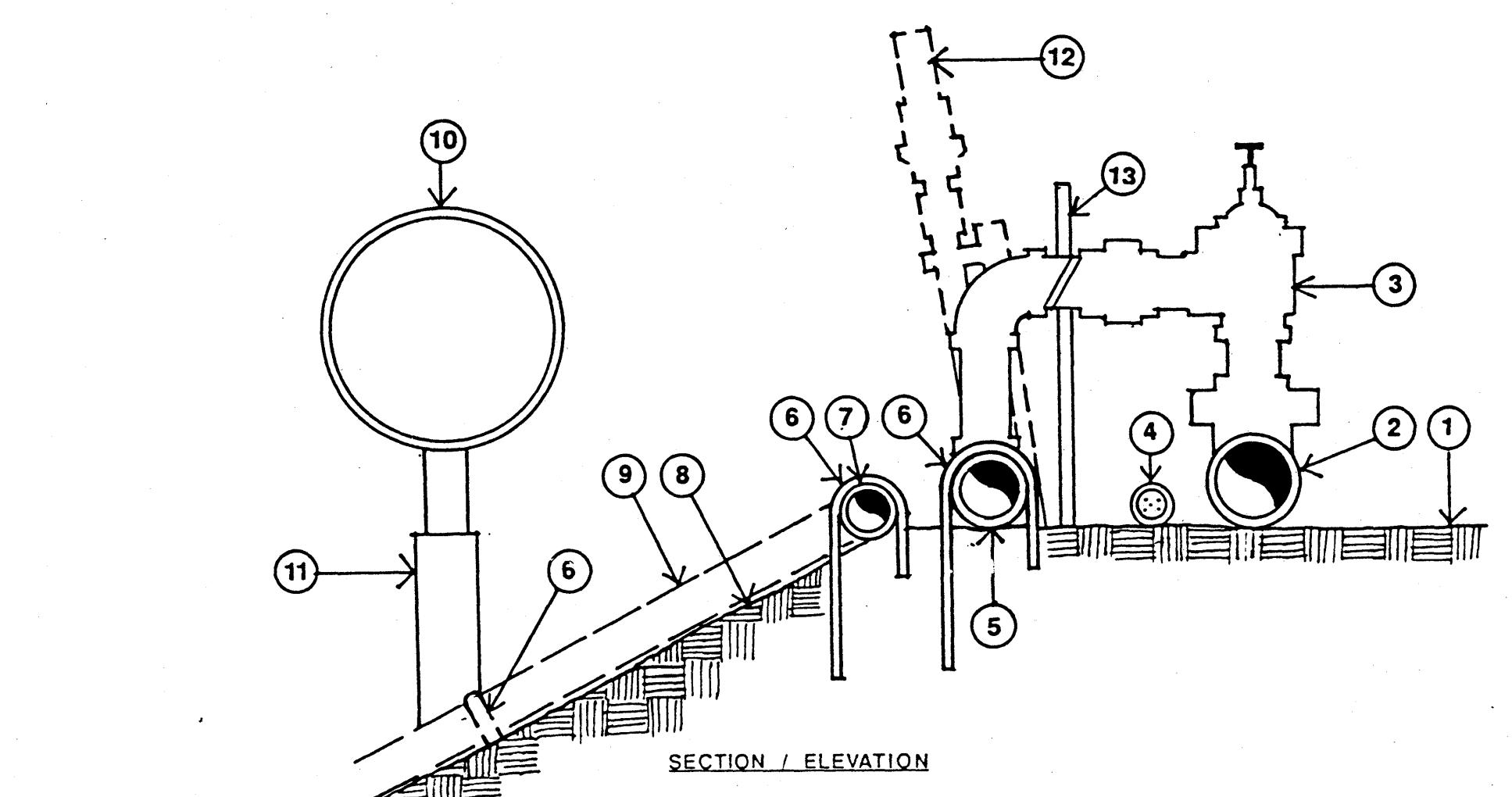


P PIPE LAYING IN TRENCHES

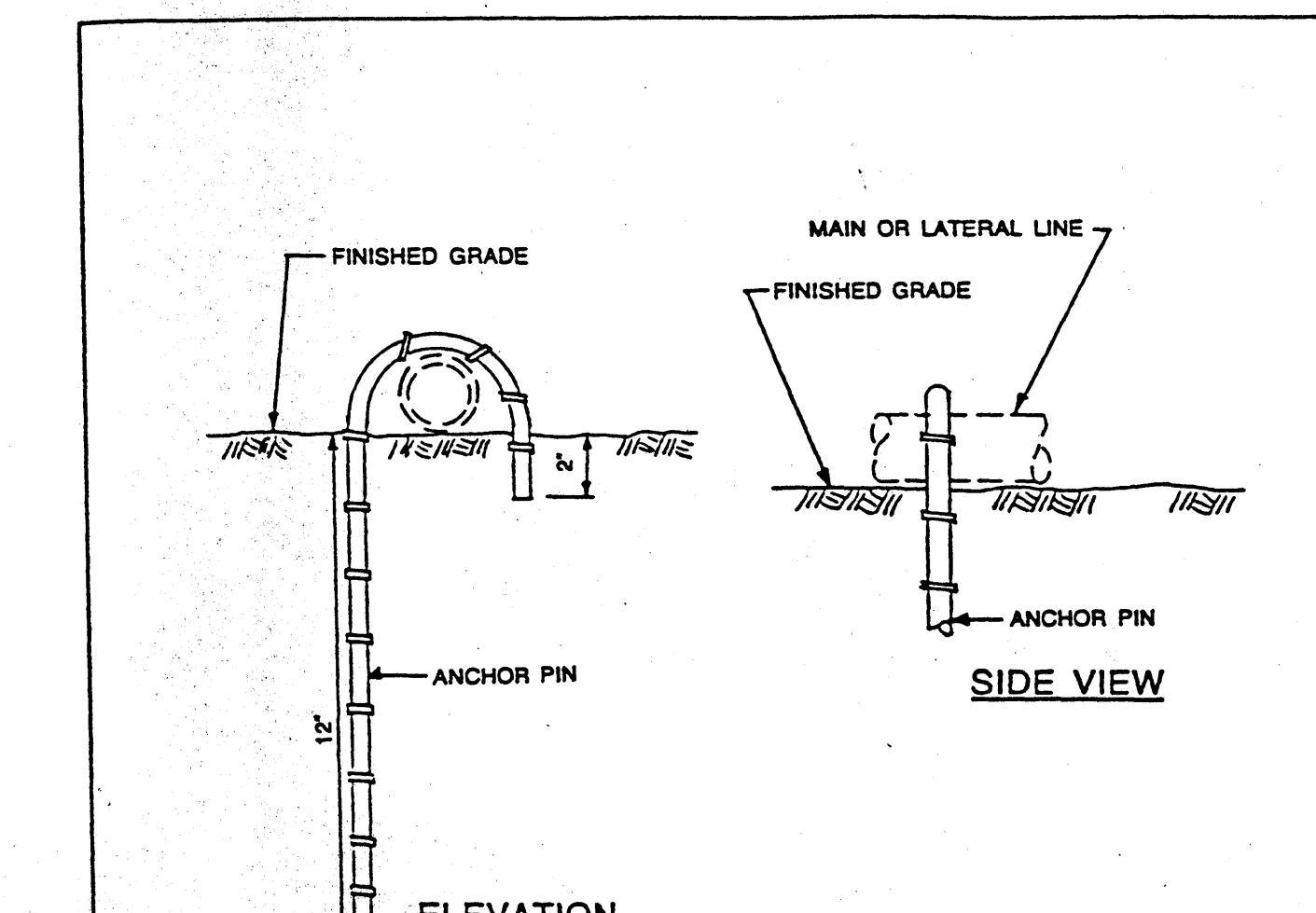
**AMERICAN PUBLIC WORKS ASSOCIATION - SOUTHERN CALIFORNIA CHAPTER
PIPE PINNING STANDARD PLAN 515-0 SHEET 1 OF 1**



M SPRINKLER HEAD LAYOUT ON SLOPEFACE
NOT TO SCALE



N PIPELINE POSITIONING ON LANDFILL BENCH
NOT TO SCALE



**AMERICAN PUBLIC WORKS ASSOCIATION - SOUTHERN CALIFORNIA CHAPTER
PIPE PINNING STANDARD PLAN 515-0 SHEET 1 OF 1**

IRRIGATION & PLANTING DETAILS

DATE			
DESIGNED	CHECKED	SUPERVISED	PROJECT ENGR.
BRYAN A. STURRAT & ASSOCIATES	CIVIL AND ENVIRONMENTAL ENGINEERS	ASST. DIV./DIST. ENGR.	R.E. NO.
1350 VALLEY VISTA DRIVE	DAILOID BAR, CA	91765	(714) 661-7775

BAS

LOPEZ CANYON LANDFILL

DIV./DIST. ENGR. DATE	REVISION DESCRIPTION
DATE	CITY OF LOS ANGELES BUREAU OF SANITATION DEBLIN A. BING, DIRECTOR
DATE	SCALESHEET NO. L-5
DWG. NO. 0268-0117-E-56-02-CD	JOB NO.

JAN 15 1993

DATE _____

DESIGNED	DRAWN	CHECKED	SUPERVISED	PROJECT ENGR.	R.E. NO.
AST. DIV./DIST. ENGR.					

BAS
BRYAN A. STIRBAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
(714) 860-7777

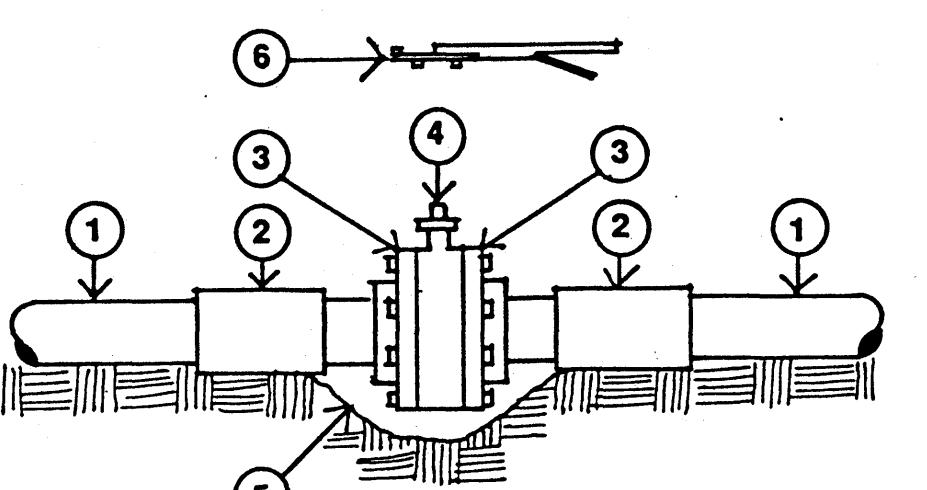
CITY OF LOS ANGELES
BUREAU OF SANITATION DELINN A. BLACK, DIRECTOR

DATE 19

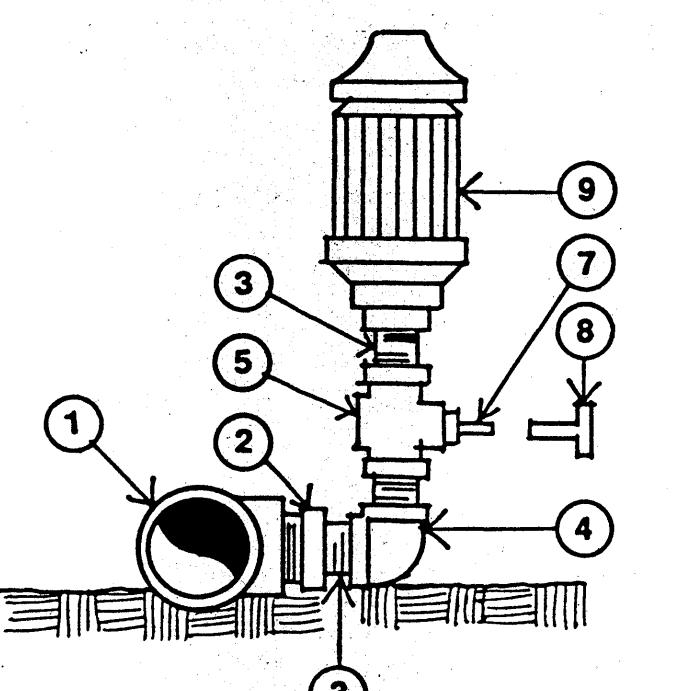
SCALE

DWG. NO. 9288-0117-E-56-011-CO

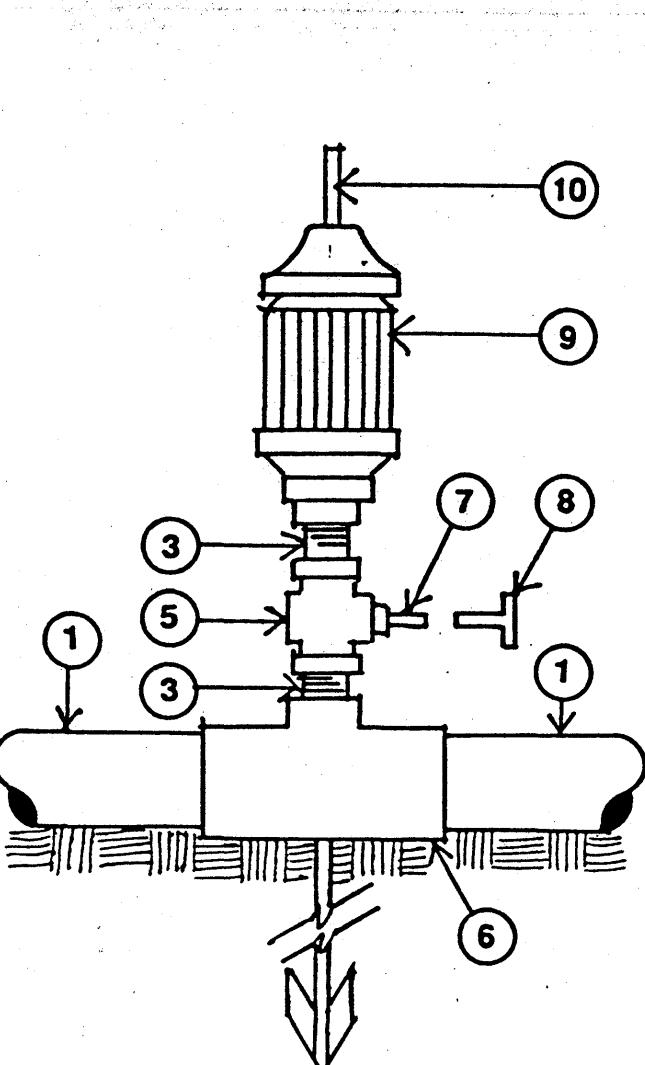
JOB NO. JAN 15 1993



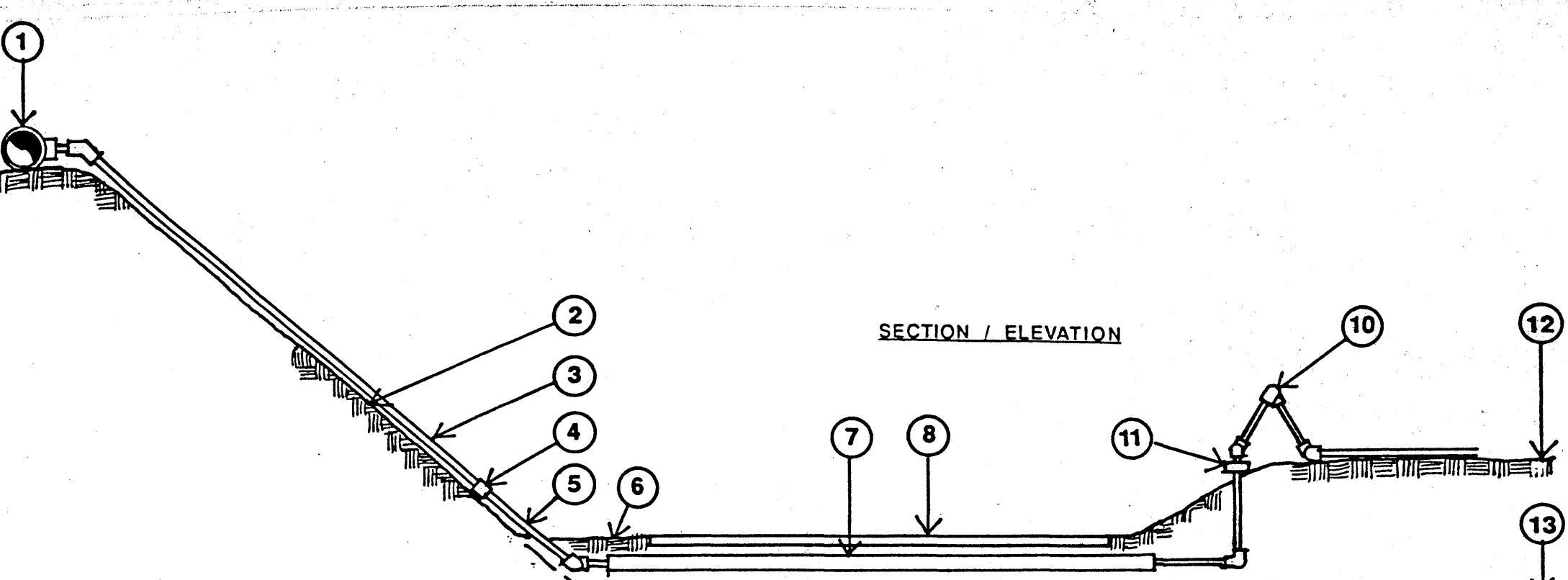
G ISOLATION VALVE
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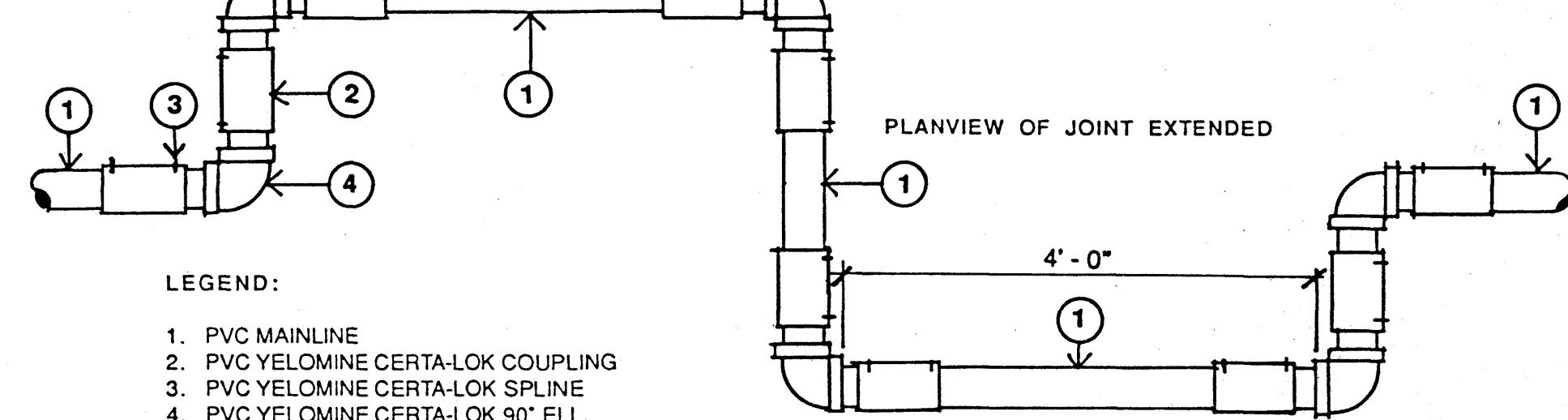
H MAINLINE DISCONNECT
NOT TO SCALE



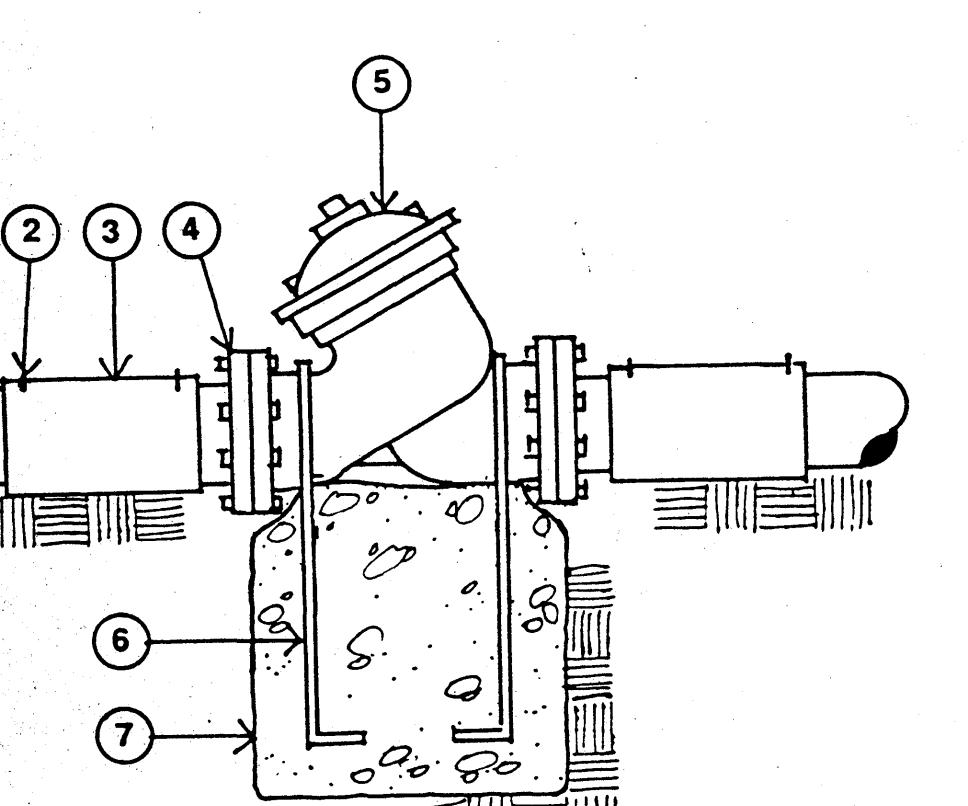
I REMOTE CONTROL VALVE ASSEMBLY
NOT TO SCALE



J MAINLINE SWING JOINT WI. ISOLATION VALVE
NOT TO SCALE



K MAINLINE POINT OF CONNECTION DETAIL
NOT TO SCALE

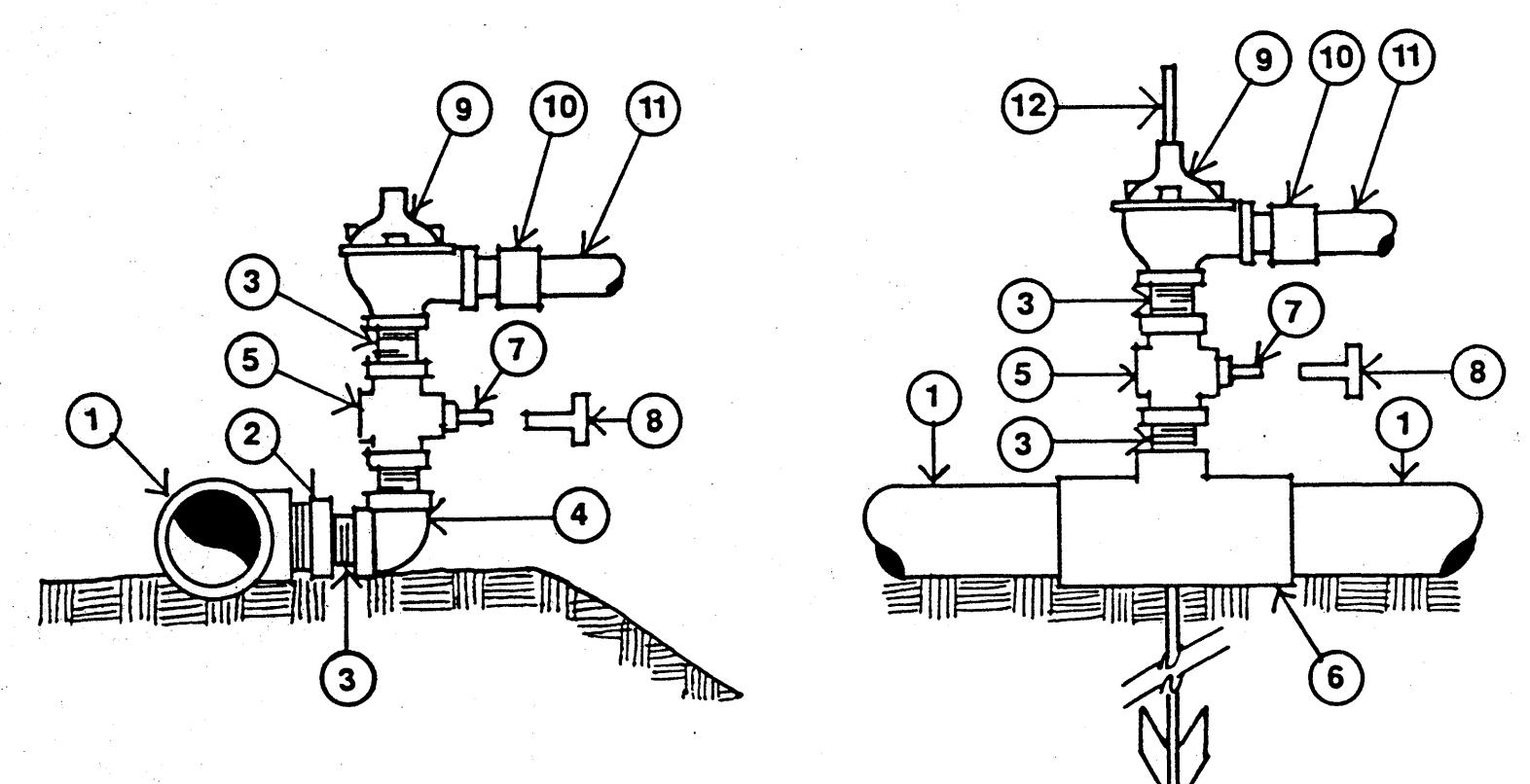


L PRESSURE RELIEF ASSEMBLY
NOT TO SCALE

M PRESSURE REDUCING VALVE ASSY.
NOT TO SCALE

N MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

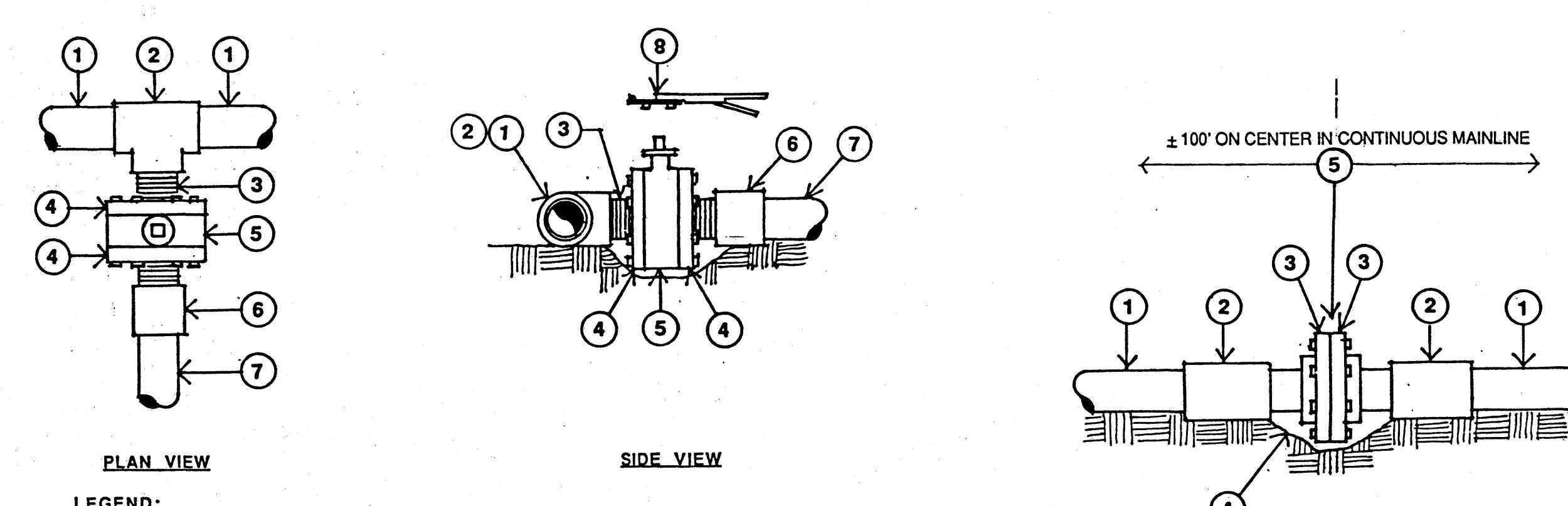
O IRIGATION DETAILS



P PRESSURE REDUCING VALVE ASSY.
NOT TO SCALE

Q MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

R IRIGATION DETAILS



S MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

T IRIGATION DETAILS

U MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

V IRIGATION DETAILS

W MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

X IRIGATION DETAILS

Y MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

Z IRIGATION DETAILS

AIR & VACUUM RELEASE ASSEMBLY
NOT TO SCALE

B PRESSURE REDUCING VALVE ASSY.
NOT TO SCALE

C MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

D IRIGATION DETAILS

E MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

F IRIGATION DETAILS

G MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

H IRIGATION DETAILS

I MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

J IRIGATION DETAILS

K MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

L IRIGATION DETAILS

M MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

N IRIGATION DETAILS

O MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

P IRIGATION DETAILS

Q MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

R IRIGATION DETAILS

S MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

T IRIGATION DETAILS

U MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

V IRIGATION DETAILS

W MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

X IRIGATION DETAILS

Y MAINLINE SWING JOINT ASSEMBLY
NOT TO SCALE

Z IRIGATION DETAILS

INSTALLATION NOTES:

DISASSEMBLY:

- CAREFULLY DISASSEMBLE YELMINE MAINLINE AND STORE PIPE AND FITTINGS FOR SUBSEQUENT USE. PREPARE INVENTORY OF EACH TYPE OF PIPE OR FITTING. USE CARE WHEN HANDLING PIPE, NOT TO DAMAGE GROoved ENDS. SUBMIT COPY OF INVENTORY TO SITE ENGINEER.
- CAREFULLY DISASSEMBLE EACH TYPE OF VALVE ASSEMBLY. INVENTORY, BOX, AND STORE EACH TYPE OF FITTING OR VALVE FOR SUBSEQUENT USE. SUBMIT COPY OF INVENTORY TO SITE ENGINEER. DISCARD DAMAGED OR UNUSED MATERIALS.
- CAREFULLY DISASSEMBLE SPRINKLER HEAD ASSEMBLY. INVENTORY, BOX, AND STORE EACH TYPE OF SPRINKLER HEAD AND FITTING FOR SUBSEQUENT USE. SUBMIT COPY OF INVENTORY TO SITE ENGINEER. DISCARD DAMAGED OR UNUSED MATERIALS.
- SALVAGE AND STORE OTHER FITTINGS OR EQUIPMENT. SOLVENT WELDED PVC FITTINGS SHALL BE CUT OUT OR REMOVED. SHORT PIECES OF LATERAL PIPE (LESS THAN 10' LENGTH) MAY BE DISCARDED.
- EXISTING FENCE STAKE STABILIZERS SHALL BE LEFT IN PLACE.
- RCV CONTROL WIRING AND CONDUIT SHALL BE REMOVED AND DISCARDED.

PRESSURE SYSTEMS:

- REUSE SALVAGED YELMINE MAINLINE AND CERTA-LOK FITTINGS. IF ADDITIONAL PIPE OR FITTINGS ARE REQUIRED, PROVIDE AND INSTALL AS SPECIFIED IN PLANS AND DETAILS.
- USE CERTA-LOK RESTRAINED JOINT FITTINGS WHEREVER POSSIBLE ON ABOVE GRADE YELMINE MAINLINE PIPE RUNS. WHERE CONDITIONS REQUIRE CUTTING YELMINE PIPE, SOLVENT WELD SCH 80 PVC FITTINGS MAY BE USED.
- SLEEVE ALL BURIED PVC PIPELINES.
- PLACE THRUSS BLOCKS WHERE INDICATED ON PLANS, AND AS CONDITIONS WARRANT. REINFORCE VARIOUS TRENCHES AND ASSEMBLIES TO CONSTRUCT ASSEMBLIES ACCORDING TO PLANS AND DETAILS.
- MAINTAIN EXISTING LATERAL SYSTEMS #1 THROUGH #7 ABOVE BENCH 7 IN PLACE DURING CONSTRUCTION. RECONSTRUCT THESE VALVES ACCORDING TO RCV ASSEMBLY DETAILS.
- PLATE ALL CONTROLLER WIRES IN PVC SCH 40 UVR CONDUIT AND ROUTE ALONGSIDE MAINLINES. EACH RCV STATION WIRE MUST BE COLOR CODED. WHERE MAINLINES ARE BURIED OR SLEEVED BEneath ROADWAYS, ALSO BURY AND SLEEVE CONTROLLER WIRES.
- UPON COMPLETION OF INSTALLATION, TURN OVER ANY UNUSED MATERIALS TO SITE ENGINEER.

LATERAL SYSTEMS:

- REUSE SALVAGED ROTOR SPRINKLER HEADS IF ADDITIONAL HEADS ARE NECESSARY. PROVIDE AND INSTALL HEAD TYPE SPECIFIED IN EQUIPMENT LEGEND.
- REUSE SALVAGED LATERAL PIPE AND FITTINGS. IF ADDITIONAL EQUIPMENT IS NECESSARY, PROVIDE AND INSTALL AS SPECIFIED IN EQUIPMENT LEGEND.
- UPON COMPLETION OF INSTALLATION, TURN OVER ANY UNUSED MATERIALS TO SITE ENGINEER.

TESTING AND OPERATION:

- COMPLETE CONSTRUCTION OF SYSTEM AND MAKE ALL NECESSARY HYDRAULIC ADJUSTMENTS.
- MAKE ALL NECESSARY CONNECTIONS BETWEEN RCV'S AND IRRIGATION CONTROLLER LOCATED AT FLARE STATION. ASSIST SITE ENGINEER IN PROGRAMMING CONTROLLER.
- SCHEDULING NOTES: SLOPE AREAS SHALL BE WATERED WITH REPEATED LIGHT APPLICATIONS SO THAT RUNOFF OR SOIL EROSION DO NOT OCCUR. RCV'S MAY BE GROUPED BY TYPE IN PROGRAMS TO CYCLE AND SOAK AT DIFFERENT TIMES FROM ADJACENT AREA TYPES.
- IN ADDITION TO REQUIRED INSPECTIONS, PERFORM A COMPLETE OPERATION DEMONSTRATION OF ENTIRE SYSTEM FOR SITE ENGINEER.



IRRIGATION HEAD & LATERAL LINE PLAN

SPRINKLER HEAD LEGEND

SYMBOL	DESCRIPTION	MANUF. & PART#	NOZZLE	GPM	RADIUS	PSI	REMARKS	DET.
O*	ADJUSTABLE ARC ROTOR	HUNTER PGS-ADV-00	4	1.7	23'-34'	50	REUSE HEADS	M,N,O
O*	"	"	6	2.7	25'-36'	50	FROM INTERIM	M,N,O
O*	"	"	7	3.4	28'-38'	50	SYSTEMS	M,N,O
O*	"	"	8	4.2	30'-39'	50	M,N,O	M,N,O
O*	"	"	9	5.5	38'-41'	50	M,N,O	M,N,O
●*	FULL CIRCLE ROTOR	HUNTER PGS-36V-00	4	1.7	23'-34'	50	M,N,O	M,N,O
●*	"	"	6	2.7	25'-36'	50	M,N,O	M,N,O
●*	"	"	7	3.4	28'-38'	50	M,N,O	M,N,O
●*	"	"	8	4.2	30'-39'	50	M,N,O	M,N,O
●*	"	"	9	5.5	38'-41'	50	M,N,O	M,N,O
▲	SPRAY HEAD	TORO 10-HLA PCD.25	10-HLA	.25	3'	50	INSTALL ON RISERS PER DETAIL	R

EQUIPMENT LEGEND

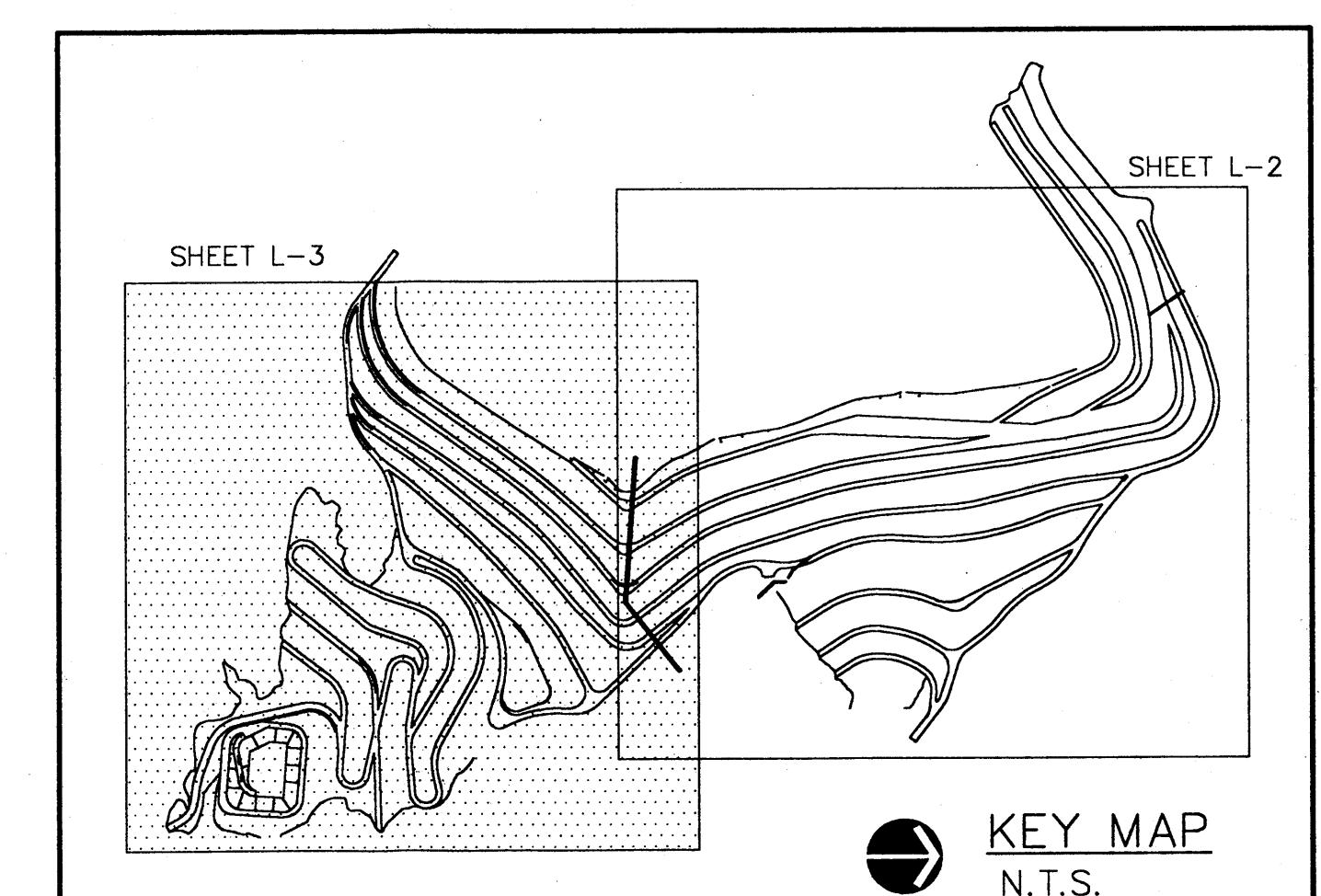
SYMBOL	DESCRIPTION	MANUF. & PART#	REMARKS	DET.
—	UVR PVC LATERAL LINE	BROWNLINE OR EQUAL	RUN ON SURFACE, SEE SPECS'	M,N,O,Q
=====	Pipeline SleeviNG	SCH 40 PVC	SLeeVE PIPELINES UNDER ROADWAYS	A
-N-	IN-LINE SPRING LOADED CHECK VALVE, LINE SIZE SEE CHART BELOW	SEE CHART BELOW	USE WHERE FLOW OF WATER IS DOWNHILL	M
-O-	IN-LINE SWING CHECK VALVE	FLOW CONTROL INC. 1520 SERIES	USE WHERE FLOW OF WATER IS UPHILL	M
●	VALVE, LINE SIZE	EXISTING		F
●	REMOTE CONTROL VALVE	EXISTING		

IN-LINE SPRING CHECK VALVES

DESCRIPTION	LINE SIZE	MANUFACTURER	PART NO.	PSI RANGE	REMARKS
ADJUSTABLE SPRING SPRING CHECK VALVE	1"	FLOW CONTROL INC.	1205-10	0-14	THREADED PVC SOLVENT WELD PVC
ADJUSTABLE SPRING SPRING CHECK VALVE	1 1/4"	FLOW CONTROL INC.	1205-12	0-14	THREADED PVC
ADJUSTABLE SPRING SPRING CHECK VALVE	1 1/2"	FLOW CONTROL INC.	1205-15	0-14	THREADED PVC
ADJUSTABLE SPRING SPRING CHECK VALVE	2"	FLOW CONTROL INC.	1205-20	0-14	THREADED PVC
ADJUSTABLE SPRING SPRING CHECK VALVE	2 1/2"	FLOW CONTROL INC.	1205-25	0-14	THREADED PVC
ADJUSTABLE HYDRAULIC CHECK VALVE	3"	RAIN FOR RENT (805)525-3306	3"-430Q,0-30	0-30	THREADED METAL

VALVE SCHEDULE

VALVE NUMBER	GPM	ELEV.
10	104.5	1725
12	154.0	1767
17	135.0	1660
27	131.6	1645
28	119.5	1535
29	101.7	1620
30	126.5	1605
31	115.5	1597
32	114.0	1570
33	89.2	1575
34	121.0	1558
35	105.8	1545
36	54.9	1547
37	77.0	1525
38	134.7	1495
39	109.8	1505
40	65.9	1472
41	134.7	1465
42	74.2	1445
43	112.7	1445
44	111.7	1435
45	119.5	1440
46	2.3	1470
47	5.0	1525
48	7.5	1445



CALVIN R. ABE & ASSOCIATES INC.
LANDSCAPE ARCHITECTS
BUREAU OF SANITATION DELWIN A. BAGI, DIRECTOR
SUITE G - LA, CA 90034
S 10 E 88 0 448
FAX 204-2644
R.L.A. 2023
SCALE 1"=60'-0"
SHEET NO. L-3
DWG. NO. 0228-0117-E-56-010-CD
JOB NO. JN15 1993

DESIGNED	TB
DRAWN	KH
CHECKED	TB
SUPERVIS ED	
PROJECT ENGR.	
ASST. DIV./DIST. ENGR.	
RE. NO.	
RE. NO.	

DATE	
DIV/DIST. ENGR.	
REVISION DESCRIPTION	
DIV/DIST. ENGR.	
DATE	
DIV/DIST. ENGR.	
DATE	

LOPEZ
CANYON
LANDFILL

BRYAN A. STURAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA 91765
(714)560-7777

INSTALLATION NOTES:

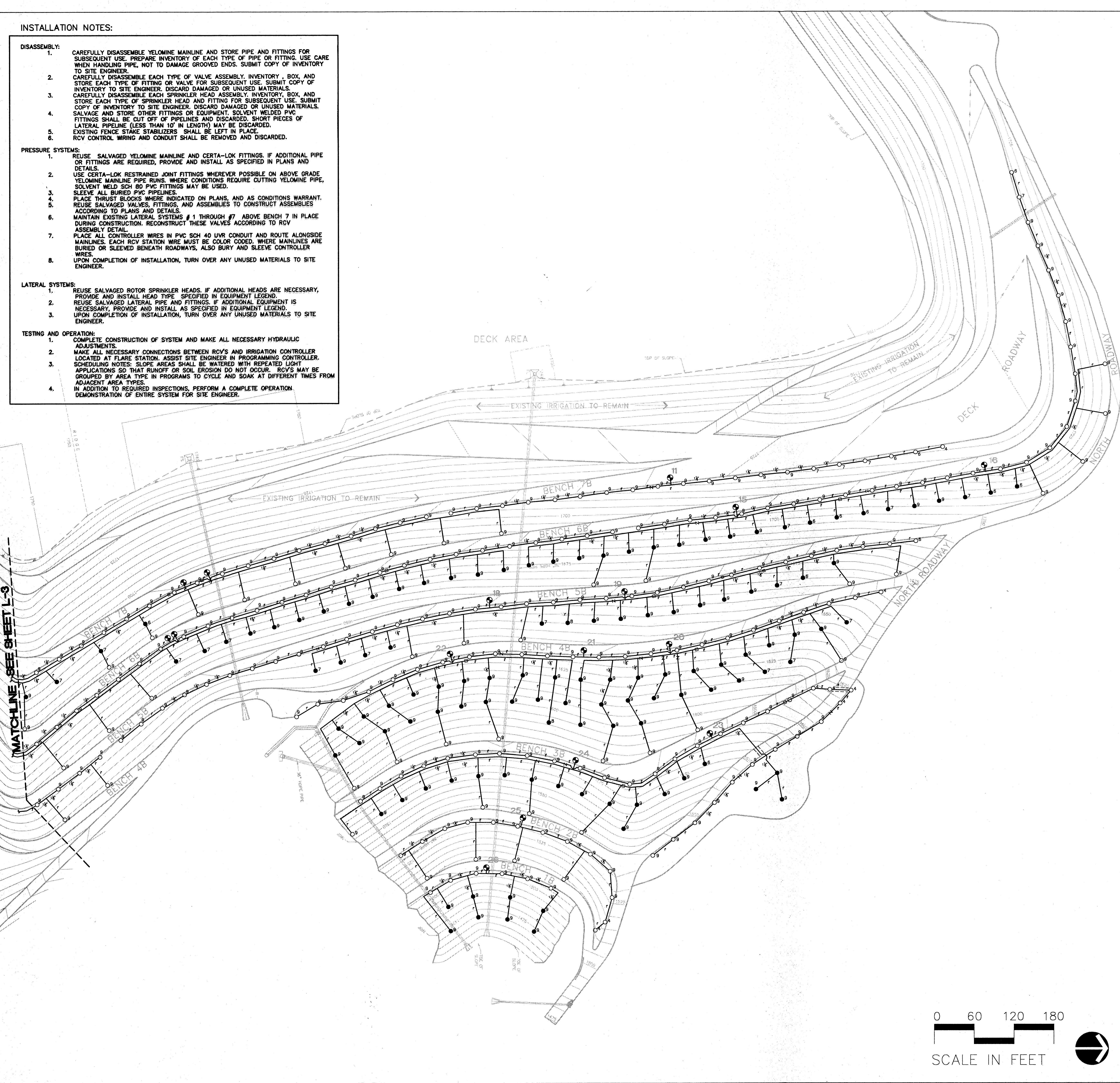
- DISASSEMBLY:**
- CAREFULLY DISASSEMBLE YELLOMINE MAINLINE AND STORE PIPE AND FITTINGS FOR SUBSEQUENT USE. PREPARE INVENTORY OF EACH TYPE OF PIPE OR FITTING. USE CARE WHEN HANDLING PIPE, NOT TO DAMAGE GROoved ENDS. SUBMIT COPY OF INVENTORY TO SITE ENGINEER.
 - CAREFULLY DISASSEMBLE EACH TYPE OF VALVE ASSEMBLY, INVENTORY, BOX, AND STORE EACH TYPE OF FITTING OR VALVE FOR SUBSEQUENT USE. SUBMIT COPY OF INVENTORY TO SITE ENGINEER. DISCARD DAMAGED OR UNUSED MATERIALS.
 - CAREFULLY DISASSEMBLE EACH SPRINKLER HEAD ASSEMBLY, INVENTORY, BOX, AND STORE EACH TYPE OF SPRINKLER HEAD AND FITTING FOR SUBSEQUENT USE. SUBMIT COPY OF INVENTORY TO SITE ENGINEER. DISCARD DAMAGED OR UNUSED MATERIALS.
 - SALVAGE AND STORE OTHER FITTINGS OR EQUIPMENT. SOLVENT WELDED PVC FITTINGS SHALL BE CUT OFF OF PIPELINES AND DISCARDED. SHORT PIECES OF LATERAL PIPELINE (LESS THAN 10' IN LENGTH) MAY BE DISCARDED.
 - EXISTING FENCE STAKE STABILIZERS SHALL BE LEFT IN PLACE.
 - RCV CONTROL WIRING AND CONDUIT SHALL BE REMOVED AND DISCARDED.

- PRESSURE SYSTEMS:**
- REUSE SALVAGED YELLOMINE MAINLINE AND CERTA-LOK FITTINGS. IF ADDITIONAL PIPE OR FITTINGS ARE REQUIRED, PROVIDE AND INSTALL AS SPECIFIED IN PLANS AND DETAILS.
 - USE CERTA-LOK RESTRIINED JOINT FITTINGS WHEREVER POSSIBLE ON ABOVE GRADE YELLOMINE MAINLINE PIPE RUNS. WHERE CONDITIONS REQUIRE CUTTING YELLOMINE PIPE, SOLVENT WELD REPAIR FITTINGS MAY BE USED.
 - SEE PLANS FOR BURIED PVC PIPELINES.
 - PLACE THRUST BLOCKS WHERE INDICATED ON PLANS, AND AS CONDITIONS WARRANT.
 - REUSE SALVAGED VALVES, FITTINGS, AND ASSEMBLIES TO CONSTRUCT ASSEMBLIES ACCORDING TO PLANS AND DETAILS.
 - MATERIALS FOR LATERAL SYSTEMS #1 THROUGH #7 ABOVE BENCH 7 IN PLACE DURING CONSTRUCTION. RECONSTRUCT THESE VALVES ACCORDING TO RV
 - ASSEMBLY DETAIL.
 - PLACE ALL CONTROLLER WIRES IN PVC SCH 40 UVR CONDUIT AND ROUTE ALONGSIDE MAINLINES. EACH RCV STATION WIRE MUST BE COLOR CODED. WHERE MAINLINES ARE BURIED OR SLEEVED BEHIND ROADWAYS, ALSO BURY AND SLEEVE CONTROLLER WIRES.
 - UPON COMPLETION OF INSTALLATION, TURN OVER ANY UNUSED MATERIALS TO SITE ENGINEER.

- LATERAL SYSTEMS:**
- REUSE SALVAGED ROTOR SPRINKLER HEADS IF ADDITIONAL HEADS ARE NECESSARY. PROVIDE AND INSTALL HEAVY TYPE SPRINKLER HEADS AS SPECIFIED IN EQUIPMENT LEGEND.
 - REFLECT EXISTING LATERAL PIPE LINES AND FITTINGS. IF ADDITIONAL EQUIPMENT IS NECESSARY, PROVIDE AND INSTALL AS SPECIFIED IN EQUIPMENT LEGEND.
 - UPON COMPLETION OF INSTALLATION, TURN OVER ANY UNUSED MATERIALS TO SITE ENGINEER.

- TESTING AND OPERATION:**
- COMPLETE CONSTRUCTION OF SYSTEM AND MAKE ALL NECESSARY HYDRAULIC ADJUSTMENTS.
 - MAKE ALL NECESSARY CONNECTIONS BETWEEN RCV'S AND IRRIGATION CONTROLLER. LOAD ALL PROGRAMS INTO THE COMPUTER AND PROGRAMMING CONTROLLER. SCHEDULING NOTES: SLOPE AREAS SHALL BE WATERED WITH REPEATED LIGHT APPLICATIONS SO THAT RUNOFF OR SOIL EROSION DO NOT OCCUR. RCV'S MAY BE GROUPED BY AREA TYPE IN PROGRAMS TO CYCLE AND SOAK AT DIFFERENT TIMES FROM ADJACENT AREA TYPES.
 - IN ADDITION TO REQUIRED INSPECTIONS, PERFORM A COMPLETE OPERATION DEMONSTRATION OF ENTIRE SYSTEM FOR SITE ENGINEER.

MATCHLINE SEE SHEET L-3



IRRIGATION HEAD & LATERAL LINE PLAN

SPRINKLER HEAD LEGEND

SYMBOL	DESCRIPTION	MANUF. & PART#	NOZZLE	GPM	RADIUS	PSI	REMARKS	DET.
O ⁴	ADJUSTABLE ARC ROTOR	HUNTER PGS-ADV-00	4	1.7	23-34	50	REUSE HEADS M,N,O	
O ⁶	"	"	6	2.7	25-36	50	FROM INTERIM M,N,O	
O ⁷	"	"	7	3.4	28-38	50	SYSTEMS M,N,O	
O ⁸	"	"	8	4.2	30-39	50	M,N,O	
O ⁹	"	"	9	5.5	38-41	50	M,N,O	
● ⁴	FULL CIRCLE ROTOR	HUNTER PGS-36V-00	4	1.7	23-34	50	M,N,O	
● ⁶	"	"	6	2.7	25-36	50	M,N,O	
● ⁷	"	"	7	3.4	28-38	50	M,N,O	
● ⁸	"	"	8	4.2	30-39	50	M,N,O	
● ⁹	"	"	9	5.5	38-41	50	M,N,O	
▲	SPRAY HEAD	TORO 10-HLA PCD.25	10-HLA	.25	3'	50	INSTALL ON RISERS PER DETAIL	R

EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MANUF. & PART#	REMARKS	DET.
—	UVR PVC LATERAL LINE		RUN ON SURFACE, SEE SPECS*	M,N,C,Q
=====	PIPELINE SLEEVING	SCH 40 PVC	SLEEVE PIPELINES UNDER ROADWAYS	A
—	IN-LINE SPRING LOADED CHECK VALVE, LINE SIZE	SEE CHART BELOW	USE WHERE FLOW OF WATER IS DOWNHILL	M
—	IN-LINE SWING CHECK VALVE, LINE SIZE	FLOW CONTROL INC.	USE WHERE FLOW OF WATER IS UPHILL	M
●	REMOTE CONTROL VALVE	T520 SERIES	EXISTING	F

BAS
BRYAN A. STURRA & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DAVISON, MI 48131
(218)386-7777

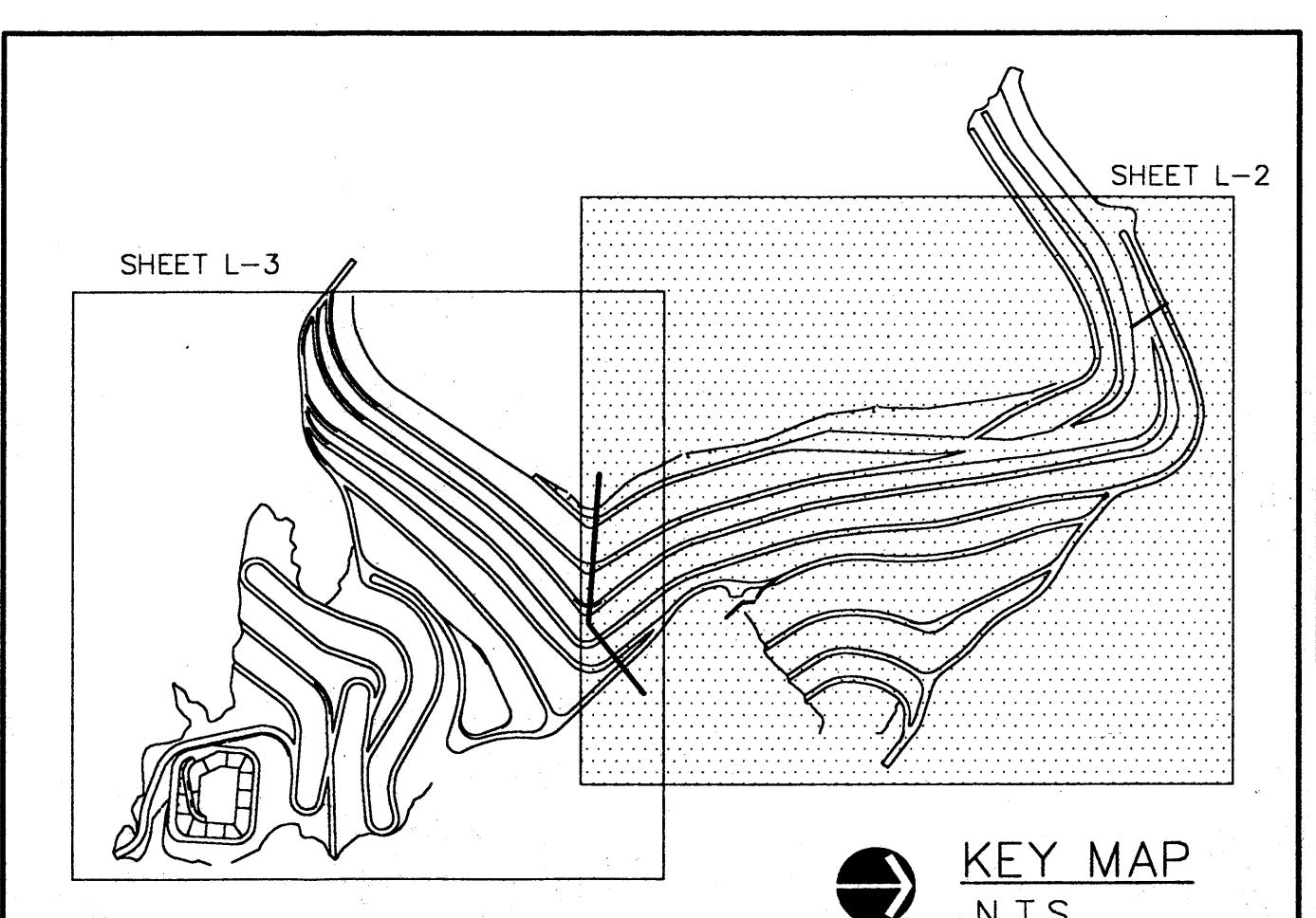
LOPEZ CANYON LANDFILL

IN-LINE SPRING CHECK VALVES

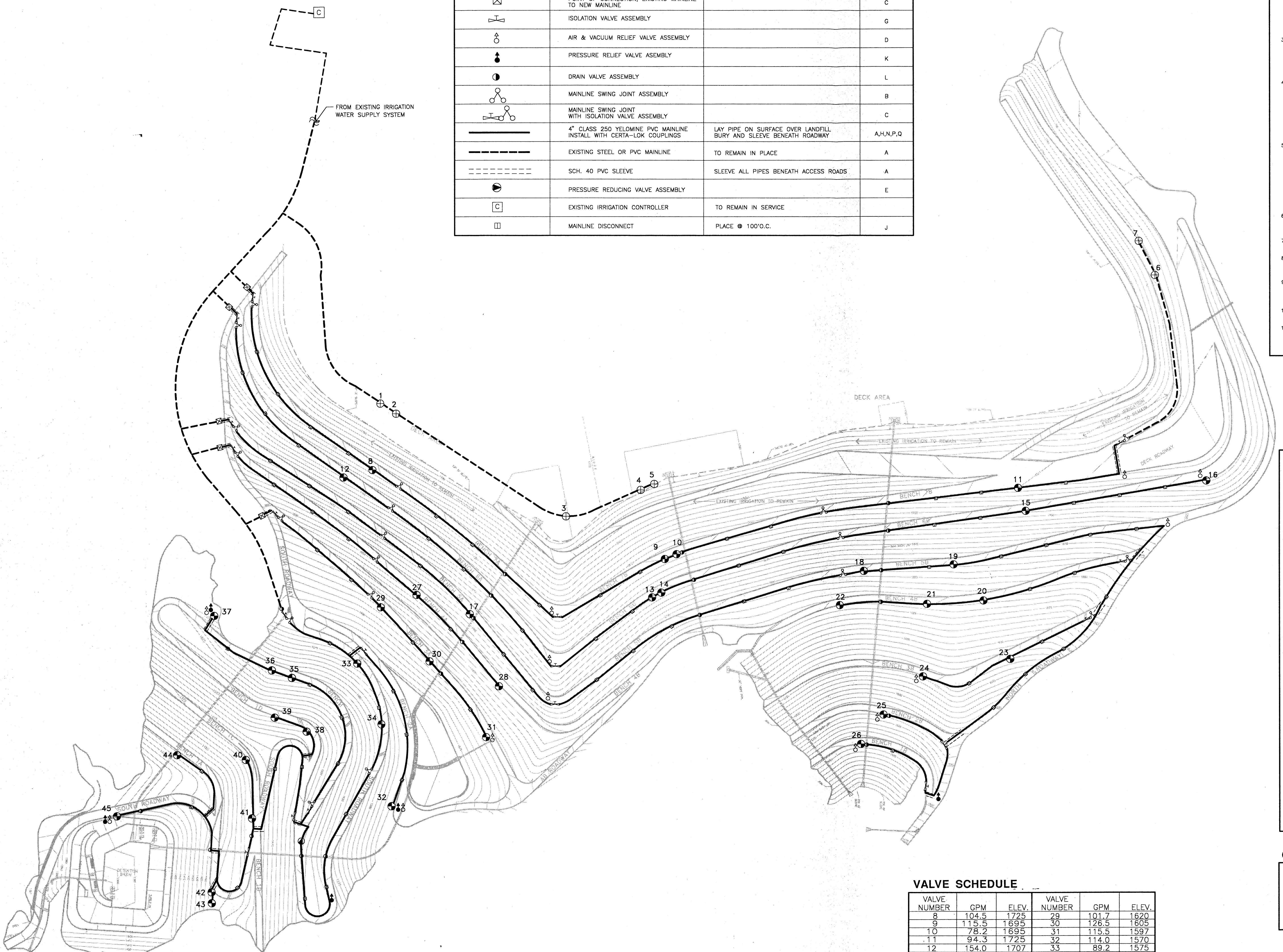
DESCRIPTION	LINE SIZE	MANUFACTURER	PART NO.	PSI RANGE	REMARKS
ADJUSTABLE SPRING SPRING CHECK VALVE	1"	FLOW CONTROL INC.	1205-10	0-14	THREADED PVC SOLVENT WELD PVC
ADJUSTABLE SPRING SPRING CHECK VALVE	1 1/4"	FLOW CONTROL INC.	1205-12	0-14	THREADED PVC
ADJUSTABLE SPRING SPRING CHECK VALVE	1 1/2"	FLOW CONTROL INC.	1205-15	0-14	THREADED PVC
ADJUSTABLE SPRING SPRING CHECK VALVE	2"	FLOW CONTROL INC.	1205-20	0-14	THREADED PVC
ADJUSTABLE SPRING SPRING CHECK VALVE	2 1/2"	FLOW CONTROL INC.	1205-25	0-14	THREADED PVC
ADJUSTABLE HYDRAULIC CHECK VALVE	3"	RAIN FOR RENT (805)525-3306	3"-430Q,0-30	0-30	THREADED METAL

VALVE SCHEDULE

VALVE NUMBER	GPM	ELEV.
9	115.5	1695
10	78.2	1695
11	94.3	1725
13	114.0	1725
14	109.2	1725
15	122.7	1705
16	149.1	1726
18	178.7	1655
19	100.2	1660
20	136.7	1638
21	128.2	1634
22	130.1	1620
23	160.5	1590
24	115.2	1747
25	85.9	1530
26	77.0	1505



CITY OF LOS ANGELES	NO.	REVISION DESCRIPTION	DIV/BST. ENGR.	DATE
BUREAU OF SANITATION	DELWIN A. BIAGI, DIRECTOR			
CALVIN R. ABE & ASSOCIATES INC.				
LANDSCAPE ARCHITECTS				
3221 HUTCHINSON AVE				
SUITE G - LA, CA 90034				
310.830.0448				
FAX 204.2664				
R.L.A. 2023				
SCALE	1"-60'-0"			
SHEET NO.	L-2			
DIVID. ENGR.	R.E. NO.			
DWG. NO.	0258-011-E-56-003-D			
JOB NO.	JAN 15 1993			



EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	REMARKS	DETAIL/REF
⊕	EXISTING REMOTE CONTROL VALVE	RECONSTRUCT PER RCV DETAIL MAINTAIN LATERAL SYSTEM IN PLACE	F
●	REMOTE CONTROL VALVE ASSEMBLY		F
☒	POINT OF CONNECTION, EXISTING MAINLINE TO NEW MAINLINE		C
□	ISOLATION VALVE ASSEMBLY		G
△	AIR & VACUUM RELIEF VALVE ASSEMBLY		D
♦	PRESSURE RELIEF VALVE ASSEMBLY		K
○	DRAIN VALVE ASSEMBLY		L
○○	MAINLINE SWING JOINT ASSEMBLY		B
○○○	MAINLINE SWING JOINT WITH ISOLATION VALVE ASSEMBLY		C
—	4" CLASS 250 YELOMINE PVC MAINLINE INSTALL WITH CERTA-LOK COUPLINGS	LAY PIPE ON SURFACE OVER LANDFILL BURY AND SLEEVE BEHNEC ROADWAY	A,H,N,P,Q
—	EXISTING STEEL OR PVC MAINLINE	TO REMAIN IN PLACE	A
—	SCH. 40 PVC SLEEVE	SLEEVE ALL PIPES BEHNEC ACCESS ROADS	A
●	PRESSURE REDUCING VALVE ASSEMBLY		E
C	EXISTING IRRIGATION CONTROLLER	TO REMAIN IN SERVICE	
□	MAINLINE DISCONNECT	PLACE @ 100' C.	J

NOTICE TO CONTRACTORS

1. SPECIFICATIONS:
a. All work detailed on these plans to be performed under contract shall except as otherwise stated or provided for herein, be constructed in accordance with "Standards Specifications for Public Works Construction", 1988 Edition, with current supplements section 212 and 308 and any other pertinent sections, and Standard Plan S-010-15.
b. In addition, Specifications SECTION 02441 IRRIGATION, are hereby incorporated into and made a part of these specifications and their provisions shall be carried out by the Contractor.
2. WORK CALLED FOR:
This improvement consists of:
• DISASSEMBLY AND STORAGE OF EXISTING IRRIGATION EQUIPMENT.
• REASSEMBLY AND INSTALLATION OF REUSABLE IRRIGATION EQUIPMENT.
• INSTALLATION OF NEW IRRIGATION EQUIPMENT.
• TESTING, OPERATION AND MAINTENANCE PERIOD.
3. STANDARD PLANS FOR THIS PROJECT:
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION - 1988 EDITION
S-010-15 - to contractors comprehensive (Bureau of Engineering Standards)
508-6-1 Thrust Blocks for Plastic Pipe
S-251-1 Pipe Laying in Trenches (Case 1)
4. INSPECTIONS:
All work shown in these plans is subject to inspection during construction. Call (818) 376-6862 24 hours prior to inspection. The Contractor shall notify the Bureau of Sanitation by telephone (818) 376-6862 at least 48 hours prior to the inspections required below, so a representative can be present.
a. Testing of man and lateral irrigation lines per Section 308-5.
b. Irrigation coverage test per Section 308-5.6.
c. Plant material approval per Section 212-1.4.
d. Location and placement of plant material per Section 308-5.6.
5. APPROVALS:
a. The Contractor shall contact the Bureau of Contract Administration (phone 213-485-3011) and the Bureau of Sanitation (818) 376-6862 for a preconstruction meeting prior to start of work.
b. The Contractor shall furnish installation instruction sheets from the manufacturer for pipe installation and other irrigation devices to the Engineer. All guarantees, warranties, and instruction sheets for irrigation equipment shall be placed in a binder and given to the Engineer to be forwarded to the Bureau of Sanitation.
c. The Contractor shall submit, in triplicate, to the Site Engineer, for approval, a complete list, by brand name and supplier, of irrigation equipment and landscape materials to be installed on the job.
No material shall be purchased or moved on site until the product list has been approved.
6. IRRIGATION PIPE:
All pressurized lines, all risers, and all fittings shall be new P.V.C. Pipe, Schedule 80 as per Section 212-2.1 and/or as otherwise noted on the plans. Non-pressure lines shall be Schedule 40 P.V.C.
7. ELECTRICAL GENERAL:
All remote control valve piping shall be color coded for easy identification. The common wire color shall be white.
8. ELECTRICAL CONDUIT:
All rigid metal conduit shall be threaded, bushed and packing shall be placed on the ends to protect the wiring. All P.V.C. conduit shall be reamed, bushed and packing placed on the ends of the conduit.
9. AS-BUILT PLANS:
A set of As-Built plans shall be given to the Bureau of Sanitation (818) 376-6862 when the work is completed. This set will not be closed until these plans have been given to the Bureau.
All rigid metal conduit shall be threaded, bushed and packing shall be placed on the ends to protect the wiring.
10. SERVICES:
Electrical and water services will be provided by the City.
11. DAMAGE RESPONSIBILITY:
The Contractor shall be responsible for the repair or replacement of all existing improvements which are not designated for removal which are damaged or removed as a result of the Contractor's operation.

INSTALLATION NOTES

DISASSEMBLY:

- CAREFULLY DISASSEMBLE YELOMINE MAINLINE AND STORE PIPE AND FITTINGS FOR SUBSEQUENT USE. PREPARE INVENTORY OF EACH TYPE OF PIPE OR FITTING. USE CARE WHEN HANDLING PIPE, NOT TO DAMAGE GROOVED ENDS. SUBMIT COPY OF INVENTORY TO SITE ENGINEER.
- CAREFULLY DISASSEMBLE EACH TYPE OF VALVE ASSEMBLY. INVENTORY, BOX, AND STORE EACH TYPE OF FITTING OR VALVE FOR SUBSEQUENT USE. SUBMIT COPY OF INVENTORY TO SITE ENGINEER. DISCARD DAMAGED OR UNUSED MATERIALS.
- CAREFULLY DISASSEMBLE EACH TYPE OF SPRINKLER HEAD AND FITTING FOR SUBSEQUENT USE. SUBMIT COPY OF INVENTORY TO SITE ENGINEER. DISCARD DAMAGED OR UNUSED MATERIALS.
- SAVE AND STORE OTHER FITTINGS OR EQUIPMENT. SOLVENT WELDED PVC FITTINGS MAY BE CUT AND USED AS NEEDED. SMALL SHOT PIECES OF LATERAL PIPELINE (LESS THAN 10' IN LENGTH) MAY BE DISCARDED.
- RCV CONTROL WIRING AND CONDUIT SHALL BE REMOVED AND DISCARDED.

PRESSURE SYSTEMS:

- REUSE SALVAGED YELOMINE MAINLINE AND CERTA-LOK FITTINGS. IF ADDITIONAL PIPE OR FITTINGS ARE REQUIRED, PROVIDE AND INSTALL AS SPECIFIED IN PLANS AND DETAILS.
- USE CERTA-LOK RESTRAINED JOINT FITTINGS WHEREVER POSSIBLE ON ABOVE GRADE YELOMINE MAINLINE PIPE RUNS. WHERE CONDITIONS REQUIRE CUTTING YELOMINE PIPE, SOLVENT WELDING IS THE PREFERRED PROCESS. DO NOT USE SCAFFOLDING TO SUPPORT THE PIPE.
- SEEVE ALL BURIED PVC PIPELINES.
- PLACE THRUST BLOCKS WHERE INDICATED ON PLANS, AND AS CONDITIONS WARRANT. REUSE SALVAGED VALVES, FITTINGS, AND ASSEMBLIES TO CONSTRUCT ASSEMBLIES ACCORDING TO PLANS AND DETAILS.
- MANTAIN EXISTING LATERAL SYSTEMS #1 THROUGH #7 ABOVE BENCH 7 IN PLACE DURING CONSTRUCTION. RECONSTRUCT THESE VALVES ACCORDING TO RCV ASSEMBLY DETAIL.
- PLACE RCV CONTROLLER WIRES IN PVC SCH 40 UVR CONDUIT AND ROUTE ALONGSIDE MAINLINES. EACH RCV STATION WIRE MUST BE COLOR CODED, WHERE MAINLINES ARE BURIED OR SLEEVED BEHNEC ROADWAYS, ALSO BURY AND SLEEVE CONTROLLER WIRES.
- UPON COMPLETION OF INSTALLATION, TURN OVER ANY UNUSED MATERIALS TO SITE ENGINEER.

LATERAL SYSTEMS:

- REUSE SALVAGED ROTOR SPRINKLER HEADS. IF ADDITIONAL HEADS ARE NECESSARY, PROVIDE AND INSTALL HEAD TYPE SPECIFIED IN EQUIPMENT LEGEND.
- REUSE SALVAGED LATERAL PIPE AND FITTINGS. IF ADDITIONAL EQUIPMENT IS NECESSARY, PROVIDE AND INSTALL AS SPECIFIED IN EQUIPMENT LEGEND.
- UPON COMPLETION OF INSTALLATION, TURN OVER ANY UNUSED MATERIALS TO SITE ENGINEER.


TESTING AND OPERATION:

- COMPLETE CONSTRUCTION OF SYSTEM AND MAKE ALL NECESSARY HYDRAULIC ADJUSTMENTS.
- MAKE ALL NECESSARY CONNECTIONS BETWEEN RCV'S AND IRRIGATION CONTROLLER LOCATED AT FLARE STATION. ASSIST SITE ENGINEER IN PROGRAMMING CONTROLLER.
- SCHEDULING NOTES: SLOPE AREAS SHALL BE WATERED WITH REPEATED LIGHT APPLICATIONS SO THAT RUNOFF OR SOIL EROSION DO NOT OCCUR. RCV'S MAY BE PROGRAMMED SEPARATELY IN PROGRAMS TO CYCLE AND SOAK AT DIFFERENT TIMES FROM ADJACENT AREA TYPES.
- IN ADDITION TO REQUIRED INSPECTIONS, PERFORM A COMPLETE OPERATION DEMONSTRATION OF ENTIRE SYSTEM FOR SITE ENGINEER.

GENERAL NOTES

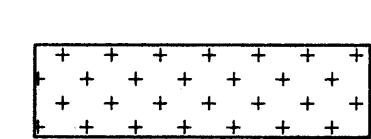
- EXISTING TEMPORARY IRRIGATION SYSTEMS SHALL BE CAREFULLY DISASSEMBLED. REUSABLE MATERIALS SHALL BE INVENTORIED AND STORED AT A LOCATION TO BE PROVIDED BY THE CITY AT THE LANDFILL SITE.
- UPON COMPLETION OF GRADE CONSTRUCTION, AS SCHEDULED BY THE CITY'S REPRESENTATIVE, INSTALLATION OF IRRIGATION SYSTEMS SHALL BEGIN. THE IRRIGATION CONTRACTOR SHALL USE THE INVENTORY OF REUSABLE EQUIPMENT AND NEW EQUIPMENT PROVIDED BY THE CITY TO CONDUCT THE WORK. BIDS FOR THIS WORK SHALL INCLUDE THE DISASSEMBLY, TRANSPORT, INVENTORYING, AND REASSEMBLY OF USED EQUIPMENT FOR THIS WORK.

DATE	DESIGNED	TB
	DRAWN	JT
	CHECKED	TB
	SUPERVISED	
	PROJECT ENGR.	
	AST. DIV./DIST. ENGR.	
CIVIL AND ENVIRONMENTAL ENGINEERS		
1360 VALLEY VISTA DRIVE		
DIAMOND BAR, CA. 91765		
CIVIL & ENVIRONMENTAL ENGINEERS		
1360 VALLEY VISTA DRIVE		
DIAMOND BAR, CA. 91765		
NO.	REV/SYST. DESCRIPT.	DATE
CITY OF LOS ANGELES		
BUREAU OF SANITATION DELMIN A. BAGG, DIRECTOR		
DATE		
DWG. NO. 9258-0117 E-56-008-CO		
SCALE 1"-100'		
SHEET NO. 1		
DWG. NO. 9258-0117 E-56-008-CO		
JOB NO. JAN 15 1993		





GRAPHIC LEGEND



APPLY HYDROSEED MIX AS NOTED BELOW

HYDROSEED NOTES

THE HYDROSEED OPERATION WILL BE PERFORMED IN TWO STEPS:

STEP ONE

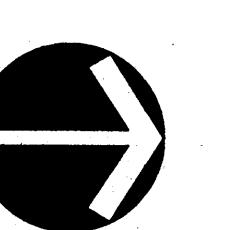
SEED	RATE	PURITY	GERMINATION
ARTEMISIA CALIFORNICA - SAGE BRUSH	3	15	60
CASSIA ARTEMISIODES - FEATHERY CASSIA	2	55	70
ENCELIA CALIFORNICA - BUSH SUNFLOWER	2	40	60
ENCELIA FARINOSA - BRITTLE BUSH	4	40	60
ERIGONUM ARBOREUM - ASH - LEAF BUCKWHEAT	6	50	10
LOTUS SCOPARIUS - DEEPEEDED	6	40	60
MIMULUS LONGIFLORUS - MONKEYFLOWER	3	5	70
PENSTEMON SPECTABILIS - PENSTEMON	4	70	50
SALVIA APIANA - WHITE SAGE	4	65	50
SALVIA MELLIFERA - BLACK SAGE	4	75	70
SALVIA LEUCOPHYLLA - PURPLE SAGE	3	75	80
TRIFOLIUM HIRTUM - INOCULATED HYCON CLOVER	15	95	80
VULGARIS PALLIDUS - ZORRO FESCUE	8	85	80
APPROVED MULCH FERTILIZER, BEST, OR EQUAL 16-20-0	700 250	--	--

STEP TWO

MULCH ACTIVATED HYDROBLEND, LANDTECH, OR EQUAL BINDER/TACKIFIER	700 3000 60
---	-------------------

CONTRACTOR SHALL AVOID SPRAYING HYDROSEED SLURRY ON EXISTING OR NEWLY PLANTED SHRUBS AND TREES AND ALL SITE EQUIPMENT. AVOID SPRAYING SLURRY IN TREE PLANTING BASINS.

0 100 200 300



SCALE IN FEET

HYDROSEED PLANTING PLAN

BAS

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA. 91765
(714) 386-7777

**LOPEZ
CANYON
LANDFILL**

NO. _____ REVISION DESCRIPTION _____ DIV./DIST. ENGR. _____ DATE _____

CITY OF LOS ANGELES
BUREAU OF SANITATION
DELMINA A. BIGI, DIRECTOR
DATE _____ 19____

DIV./DIST. ENGR. R.E. NO. _____

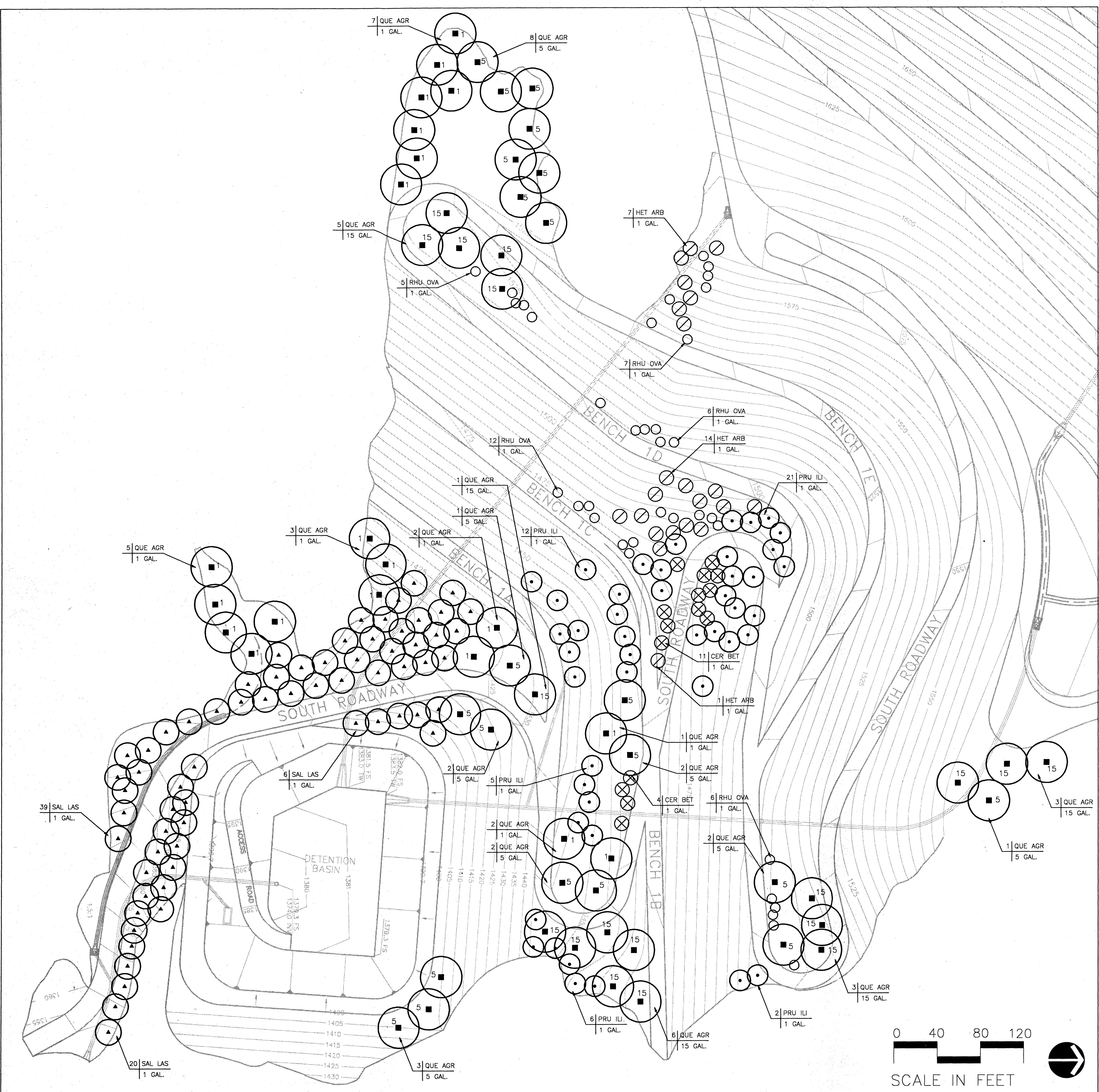
CALVIN R. ABE
& ASSOCIATES INC.

LANDSCAPE ARCHITECTS
3221 HUTCHISON AVE
SUITE G - LA, CA 90034
310.838.0448
FAX 204.2664
R L A 2 0 2 3

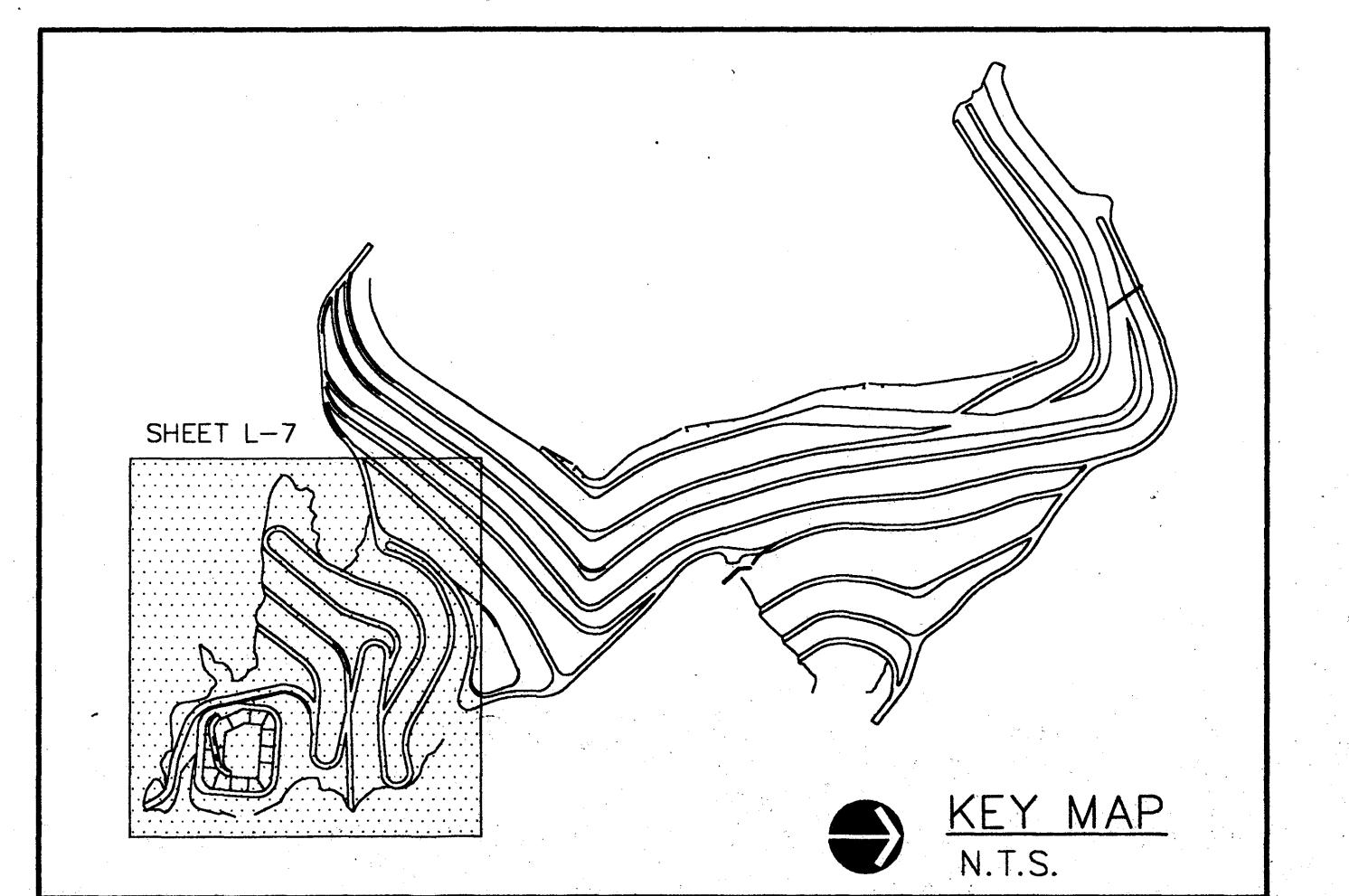
SCALE
1"=100'
SHEET NO.
L-6
DWG. NO.
0258-017-E-55-001-CO

JAN 15 1993

JOB NO.



JAN 15 1993



BAS
BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA. 91765
(714)860-7777

LOPEZ CANYON LANDFILL

CITY OF LOS ANGELES	NO.	REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE
BUREAU OF SANITATION DELWIN A. BUGI, DIRECTOR				

DATE	19
DIV./DIST. ENGR.	R.E. NO.
CALVIN R. ABE & ASSOCIATES INC.	
Landscape Architects	SCALE: 1"=40'-0"
3221 HUTCHISON AVE	Sheet No. L-7
Suite 6 - LA, CA 90034	Dwg. No. 0258-0117-E-55-002-C0
310.838.0448	Job No. JAN 15 1993
FAX 204.2664	
R.L.A. 2023	

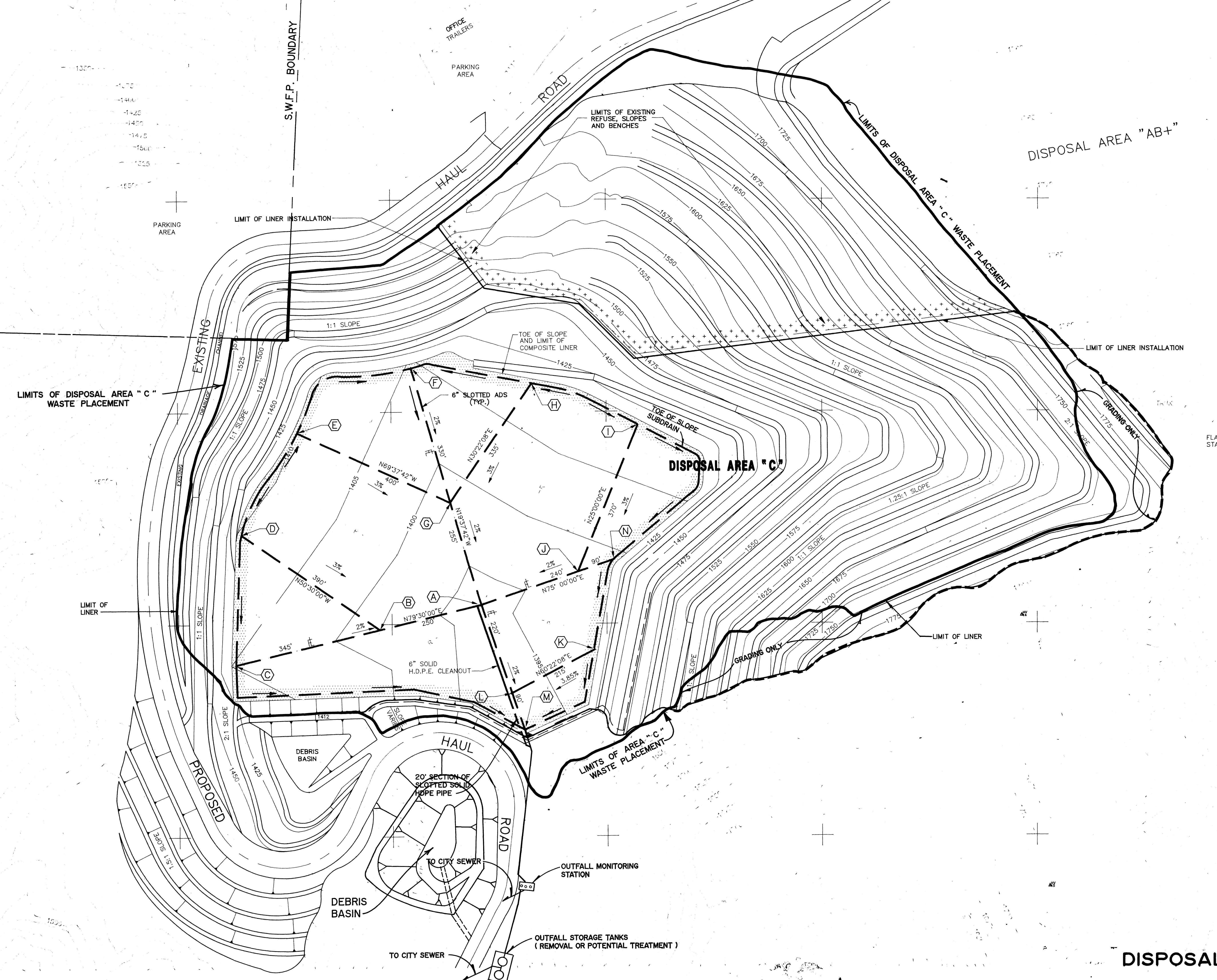
N 4,220,000
E 4,167,500

E 4,167,500

E 4,168,000

E 4,168,500

E 4,169,500

100 50 0 100 200
SCALE IN INCHES

STANDARD ABBREVIATIONS AND LEGEND

R RIDGE	R	EXISTING CONTOUR	1400	LIMIT OF COMPOSITE LINER	[dotted line]
FL FLOW LINE	— — —	PROPOSED SUB-GRADE OF LINER CONTOUR	1450	LIMIT OF EXISTING REFUSE	+ + + + +
		DIR. OF FLOW AND RATE OF SLOPE	3%		

DISPOSAL AREA "C" CLOSURE PLAN JAN 15 1993

SCALE AS SHOWN SHEET NO. 19

DWG. NO. DWG-9035-1026

JOB NO. 9035-1026

G:\DWG\LOPEZ\9035CL1 10-22-91 CJG

PROPOSED SUBDRAIN COLLECTION SYSTEM

SCALE 1" = 100' SHEET 0F INDEX NUMBER

BAS
BRYAN A. STIRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA.
(714)961-7777

LOPEZ CANYON LANDFILL

CITY OF LOS ANGELES	NO. REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE
BUREAU OF SANITATION DELANN A. BIAGI, DIRECTOR	1 NO. GENERAL REVISIONS	SPD / KG JAN 1993	

SCALE	AS SHOWN	SHEET NO.
		19

DWG. NO.

JOB NO.

N 4,220,000

E 4,167,500

E 4,168,000

E 4,168,500

E 4,169,000

E 4,169,500

100 50 0 100 200
SCALE IN INCHES

N

N 4,219,500

PARKING AREA

LIMIT OF LINER

LIMITS OF EXISTING REFUSE, SLOPES AND BENCHES

LIMITS OF DISPOSAL AREA "C" WASTE PLACEMENT

DISPOSAL AREA "AB+"

100 50 0 100 200
SCALE IN INCHES

N

N 4,219,000

EXISTING

CHANNEL

TO BE REMOVED

LIMIT OF LINER INSTALLATION

DISPOSAL AREA "C"

100 50 0 100 200
SCALE IN INCHES

N

N 4,218,500

PROPOSED

SUB-GRADE

TO CITY SEWER

OUTFALL MONITORING STATION

DISPOSAL AREA "C"

100 50 0 100 200
SCALE IN INCHES

N

N 4,218,000

DEBRIS BASIN

HAUL ROAD

OUTFALL STORAGE TANKS (REMOVAL OR POTENTIAL TREATMENT)

DISPOSAL AREA "C"

N

STANDARD ABBREVIATIONS AND LEGEND

R RIDGE
F FLOW LINE

EXISTING CONTOUR
PROPOSED SUB-GRADE
OF LINER CONTOUR

LIMIT OF COMPOSITE LINER
LIMIT OF EXISTING REFUSE

DIR. OF FLOW AND
RATE OF SLOPE

3% →

3%

3%

SCALE

1" = 100'

SHEET

OF

INDEX NUMBER

PROPOSED LEACHATE COLLECTION AND REMOVAL SYSTEM

JAN 15 1993

BAS

LOPEZ CANYON LANDFILL

DIV/DIST. ENGR. DATE
SPD / KG JAN 93

GENERAL REVISION DESCRIPTION
NO. ZA

CITY OF LOS ANGELES
BUREAU OF SANITATION DELWIN A. BAG, DIRECTOR
DATE 19


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DWG. NO.
DIVISION: RE. NO.


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9035-1026


DATE 10-91
DESIGNED M.J.B.
DRAWN D.L.L. & C.J.G.
CHECKED J.A.I.
SUPERVISED E.L.S.
PROJECT ENGR. R.E. NO.
ASST. DIV./DIST. ENGR. R.E. NO.


**CLOSURE PLAN : SURFACE WATER SAMPLING &
GROUNDWATER MONITORING WELL LOCATION MAP**

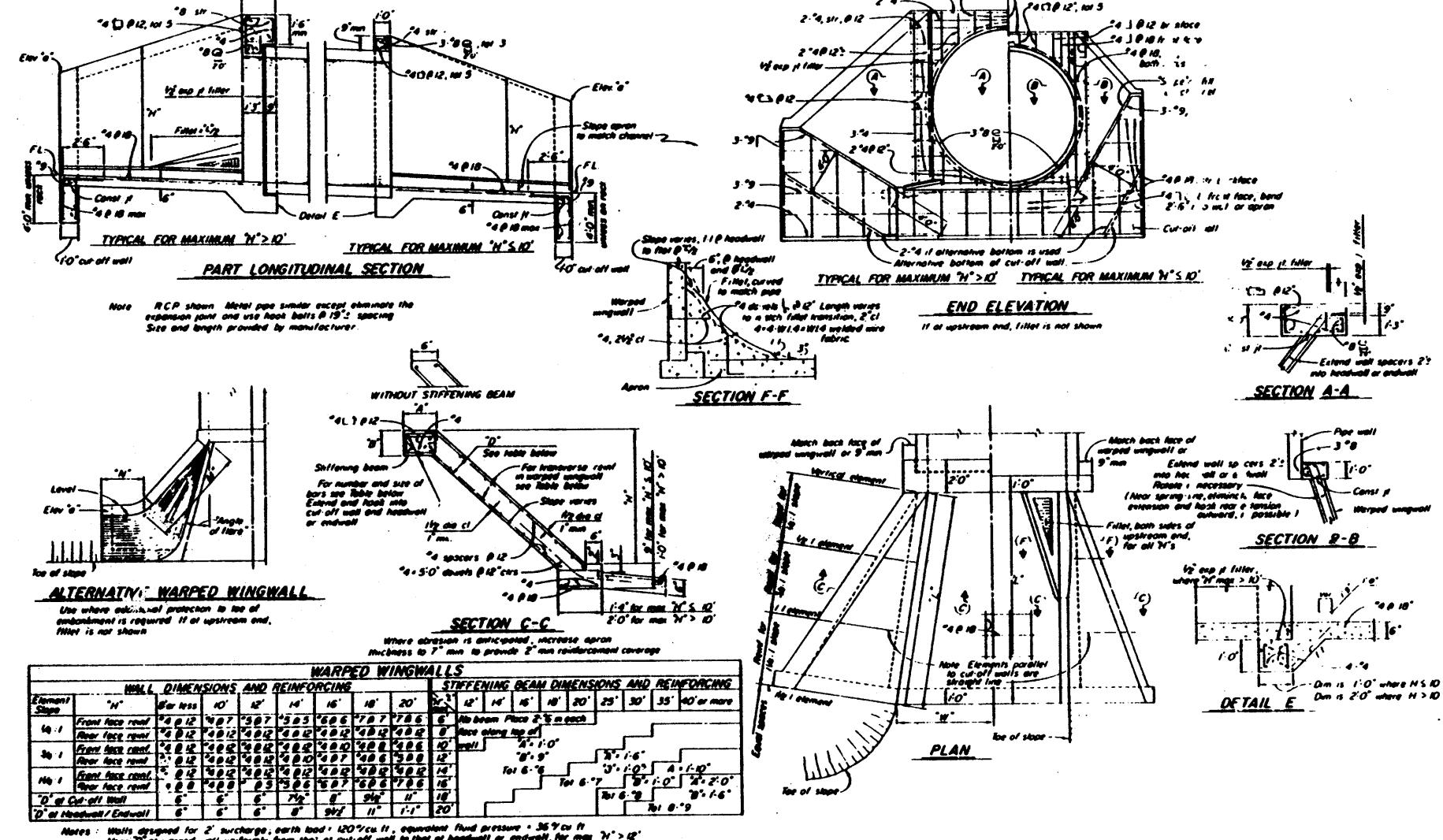
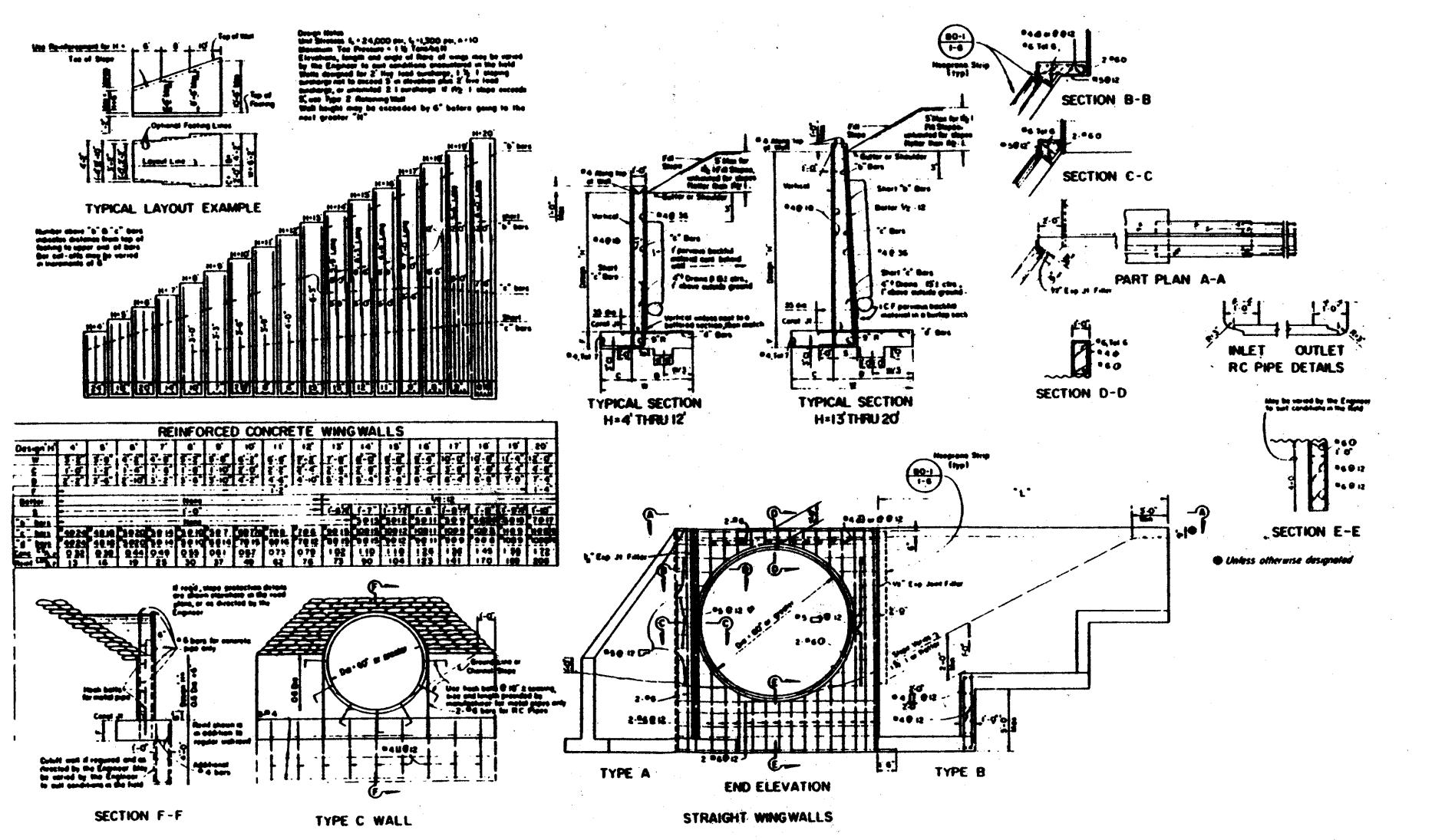
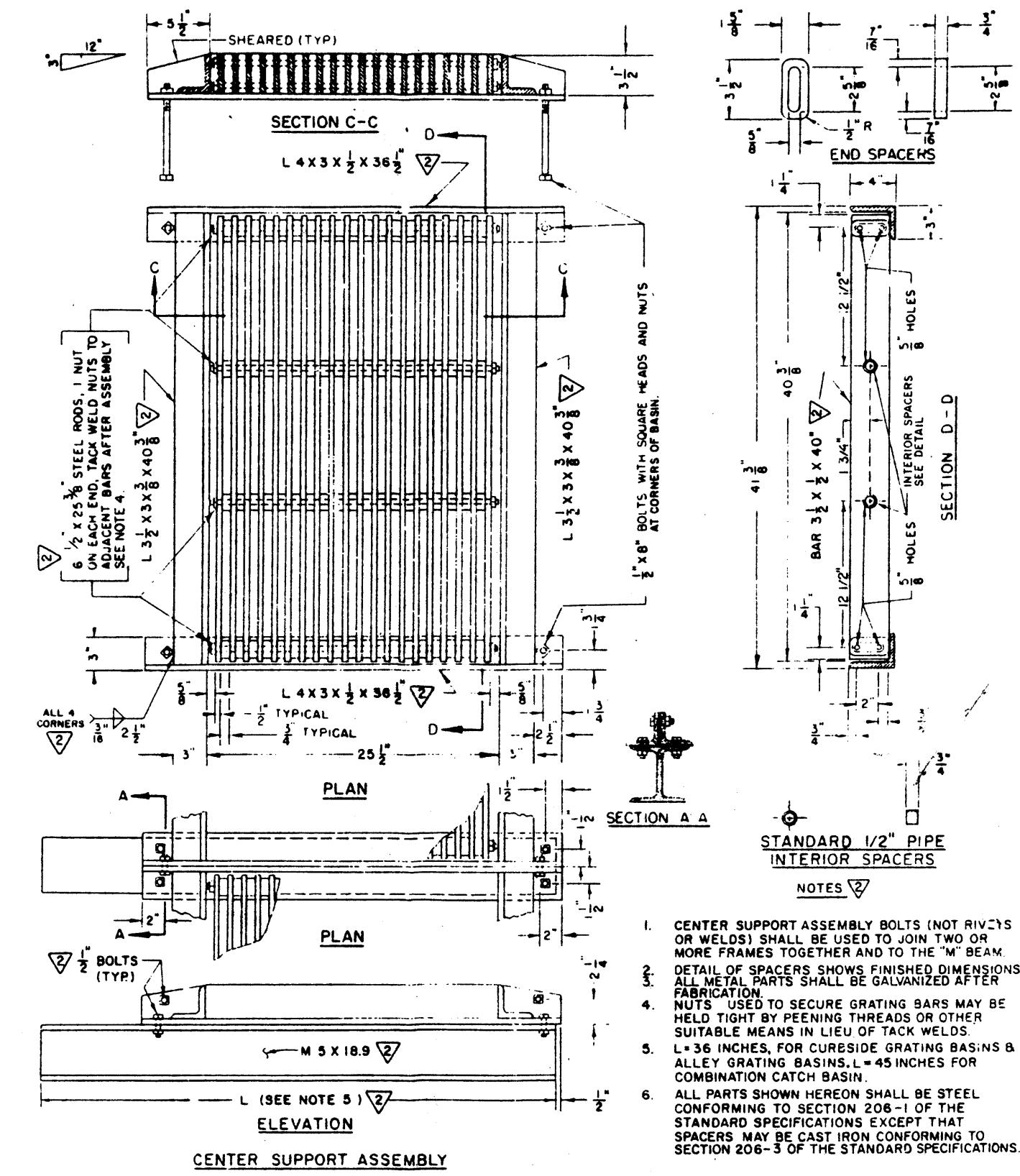
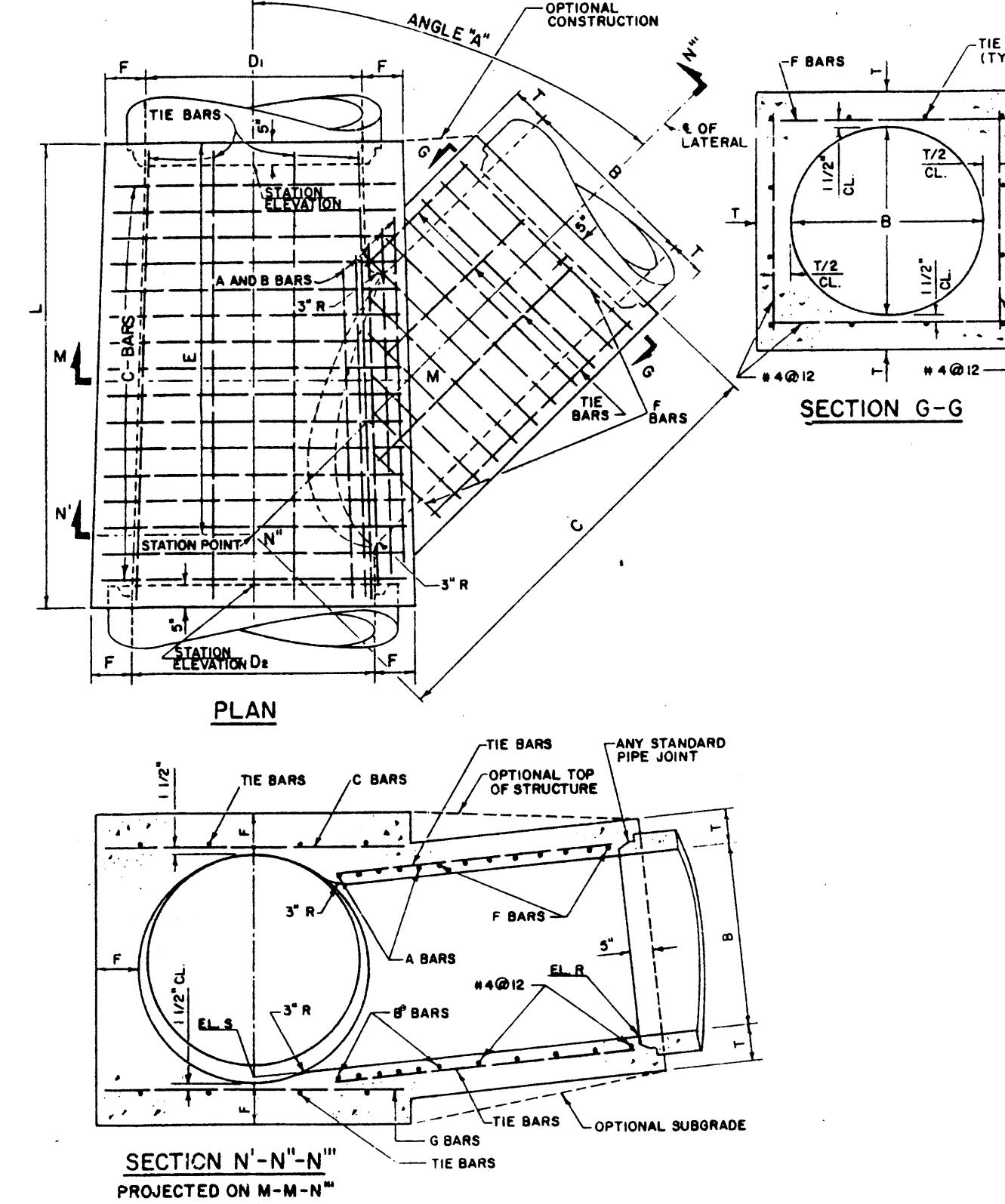
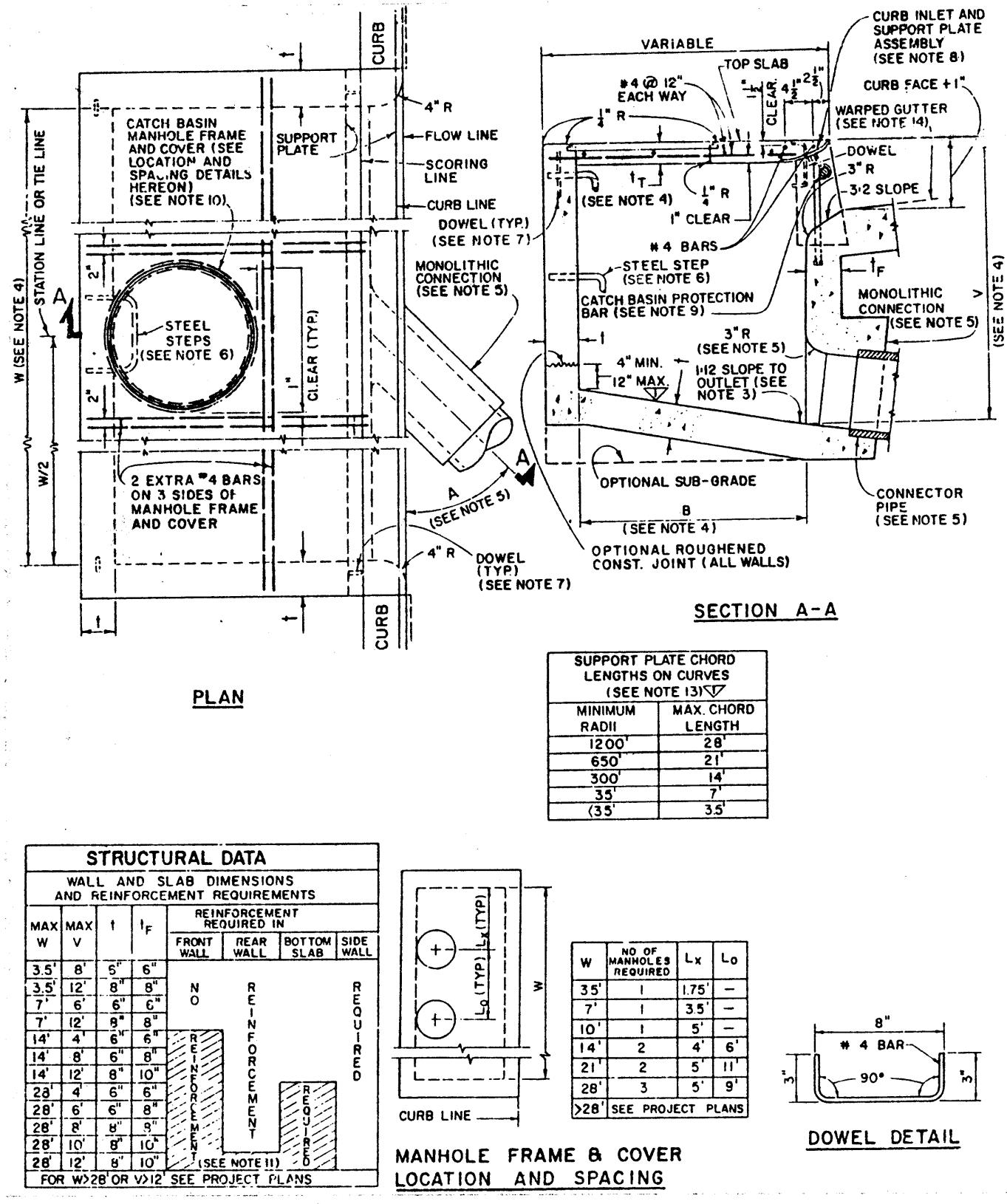
JAN 15 1993











BAS

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DAMONIC BAY, CA
91765

LOPEZ CANYON LANDFILL

CITY OF LOS ANGELES	GENERAL REVISIONS	REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE
BUREAU OF SANITATION DEWYN A. BURG DIRECTOR			SPD / KG	JAN 93

DATE _____
DIV./DIST. ENGR. R.E. NO. _____

JAN 15 1993

SCALE
NOT TO SCALE

SHEET NO. _____

DWG. NO. _____

JOB NO.
9258-108

**CLOSURE PLAN
DRAINAGE DETAILS**

SCALES HORIZ. 1'= _____ VERT. 1'= _____ SHEET OF INDEX NUMBER

DATE
6/11/92
DRAWN
J.M.
CHECKED
E.L.S.
SUPERVISED
PROJECT ENGR.
ASS'T. DIV./DIST. ENGR.
R.E. NO.
R.E. NO.

BAS

BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 VALLEY VISTA DRIVE
DIAMOND BAR, CA. 91765
(714) 965-7777

LOPEZ CANYON LANDFILL

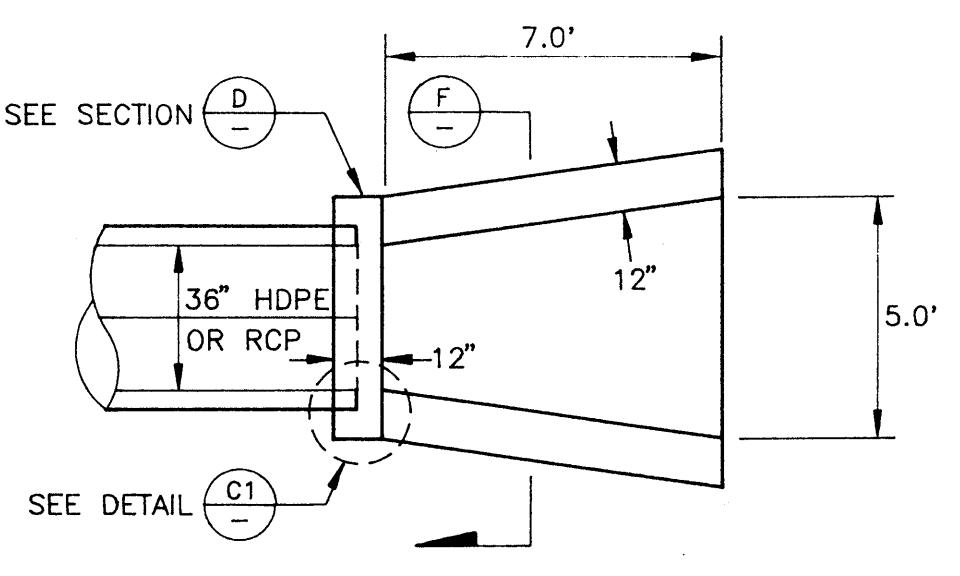
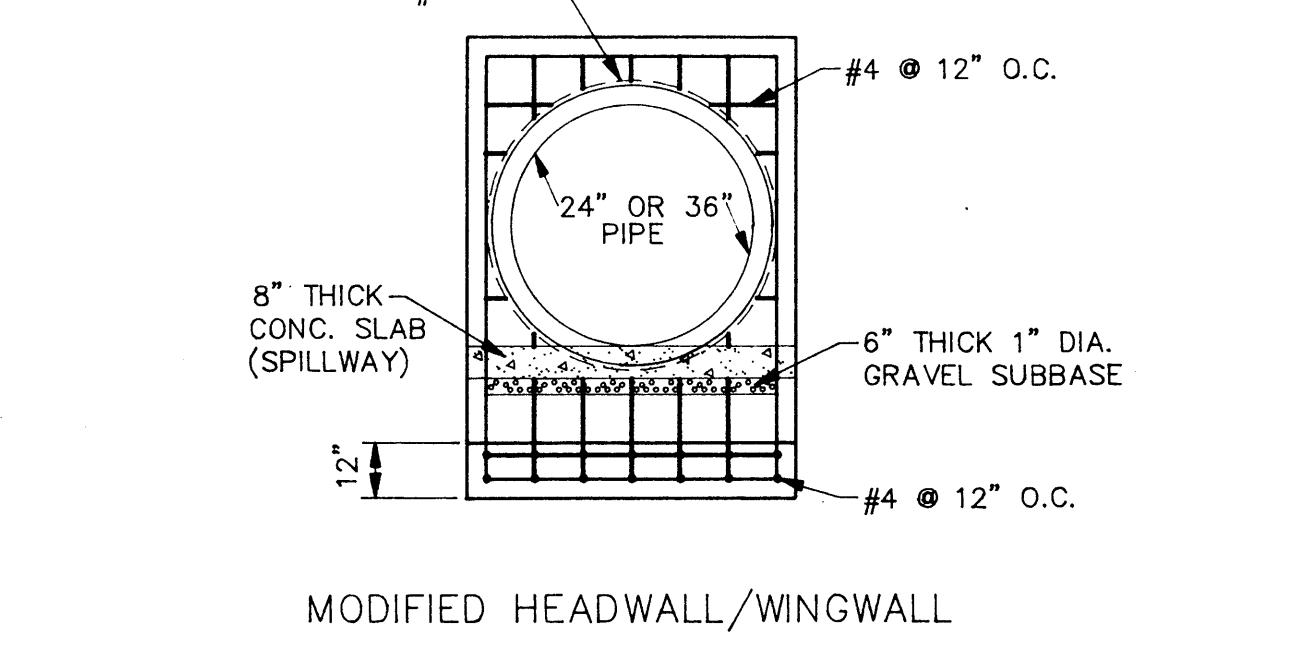
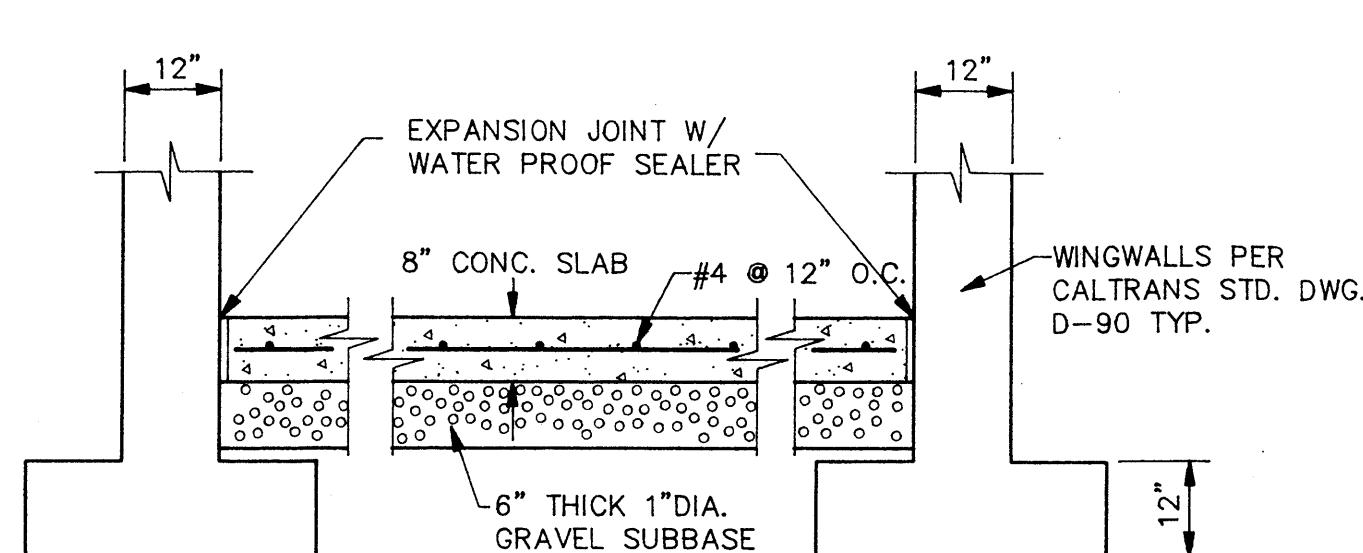
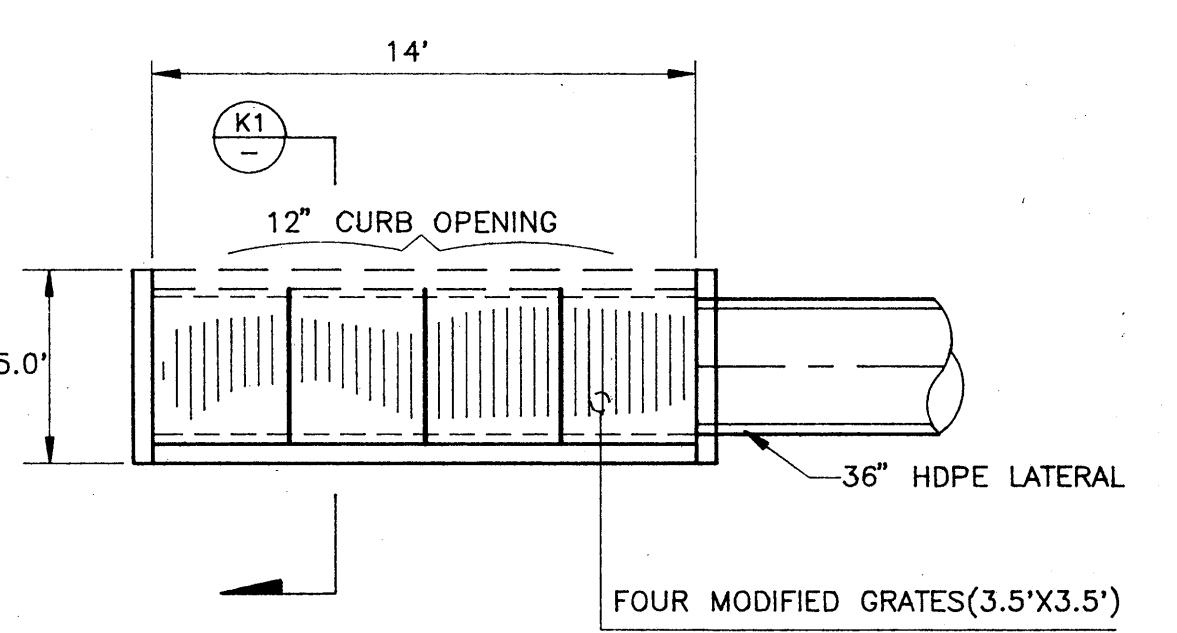
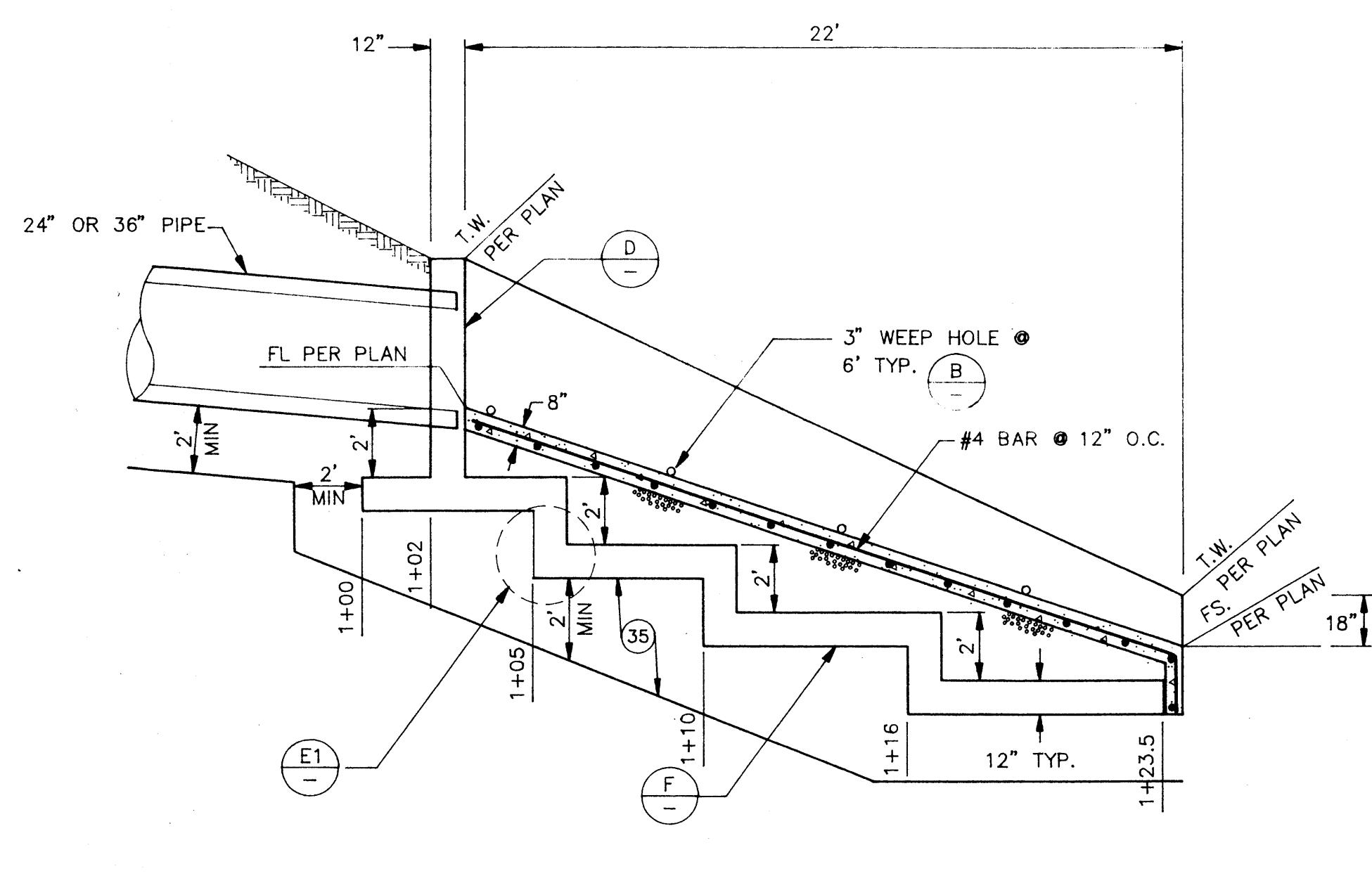
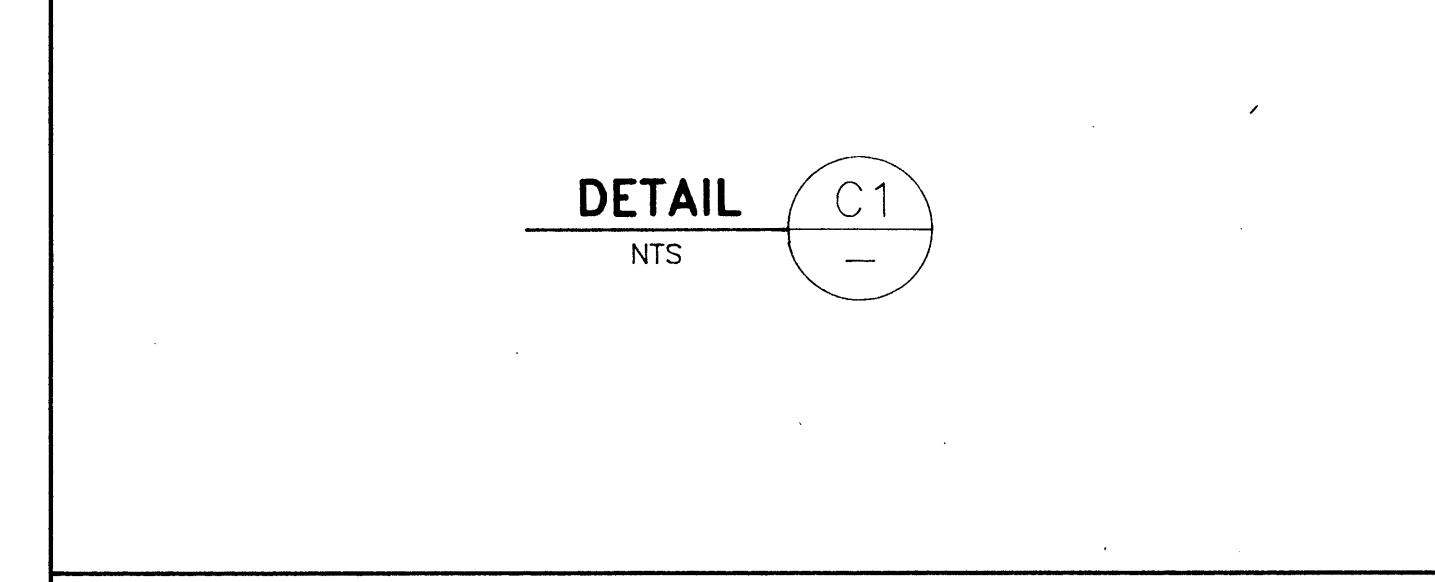
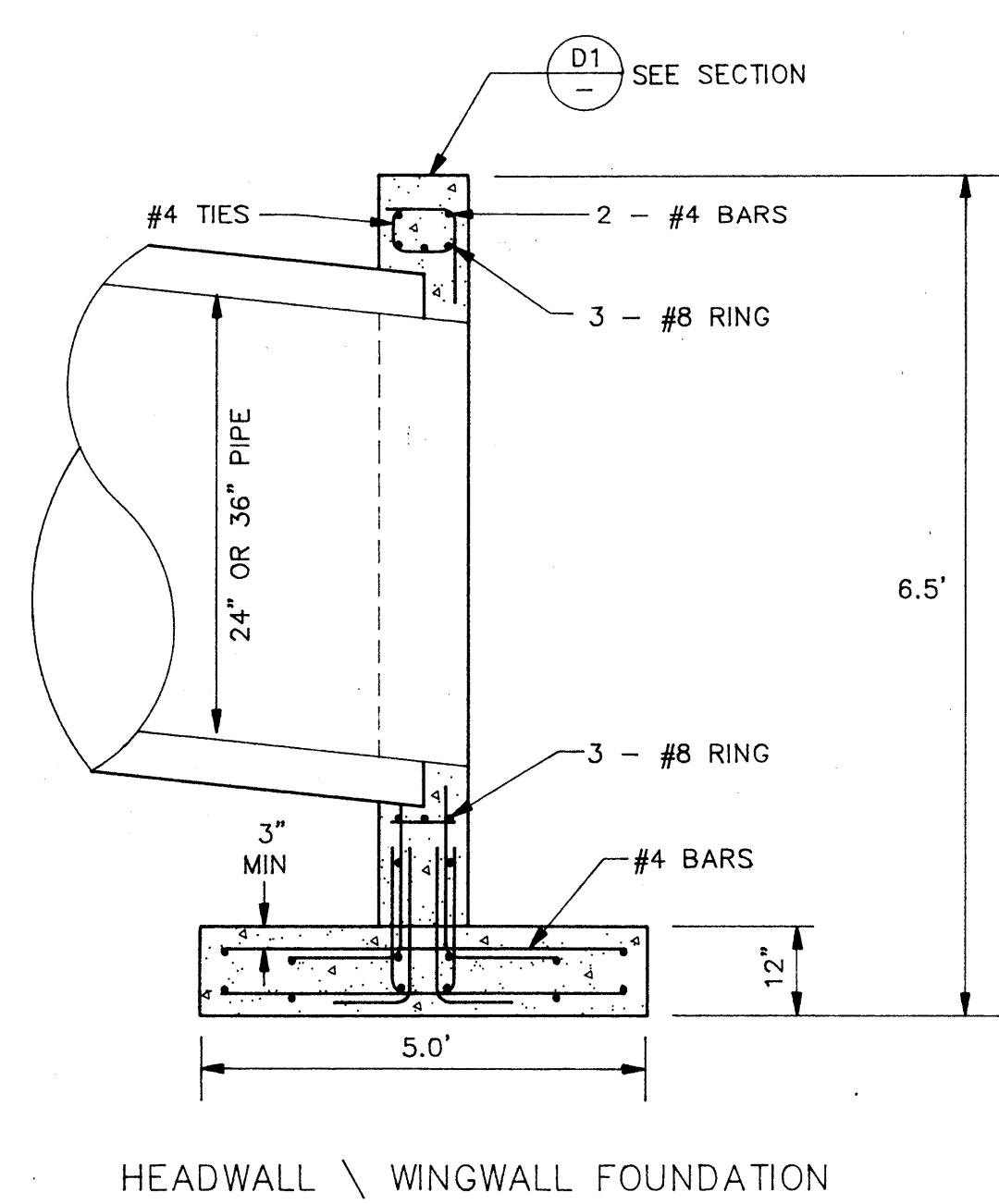
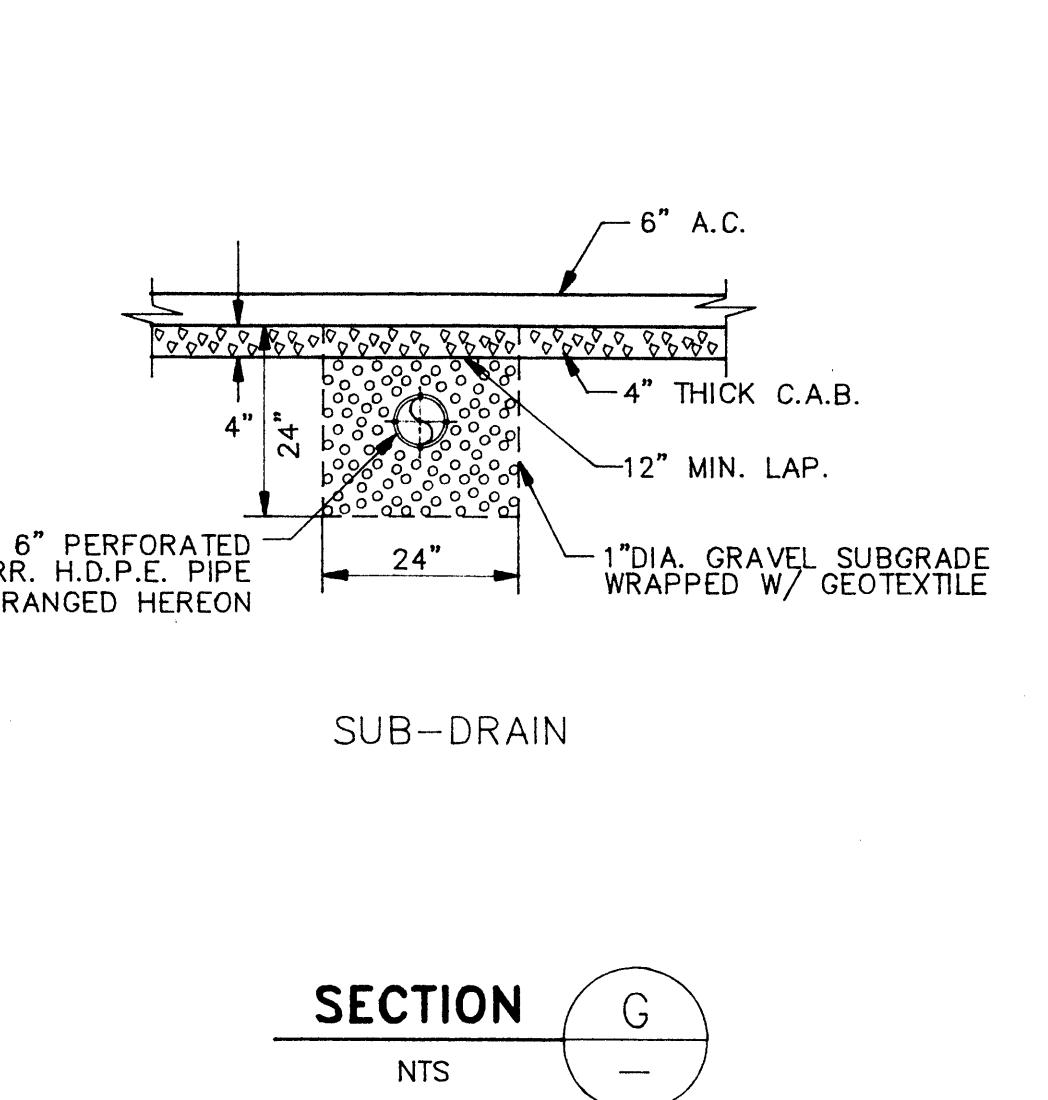
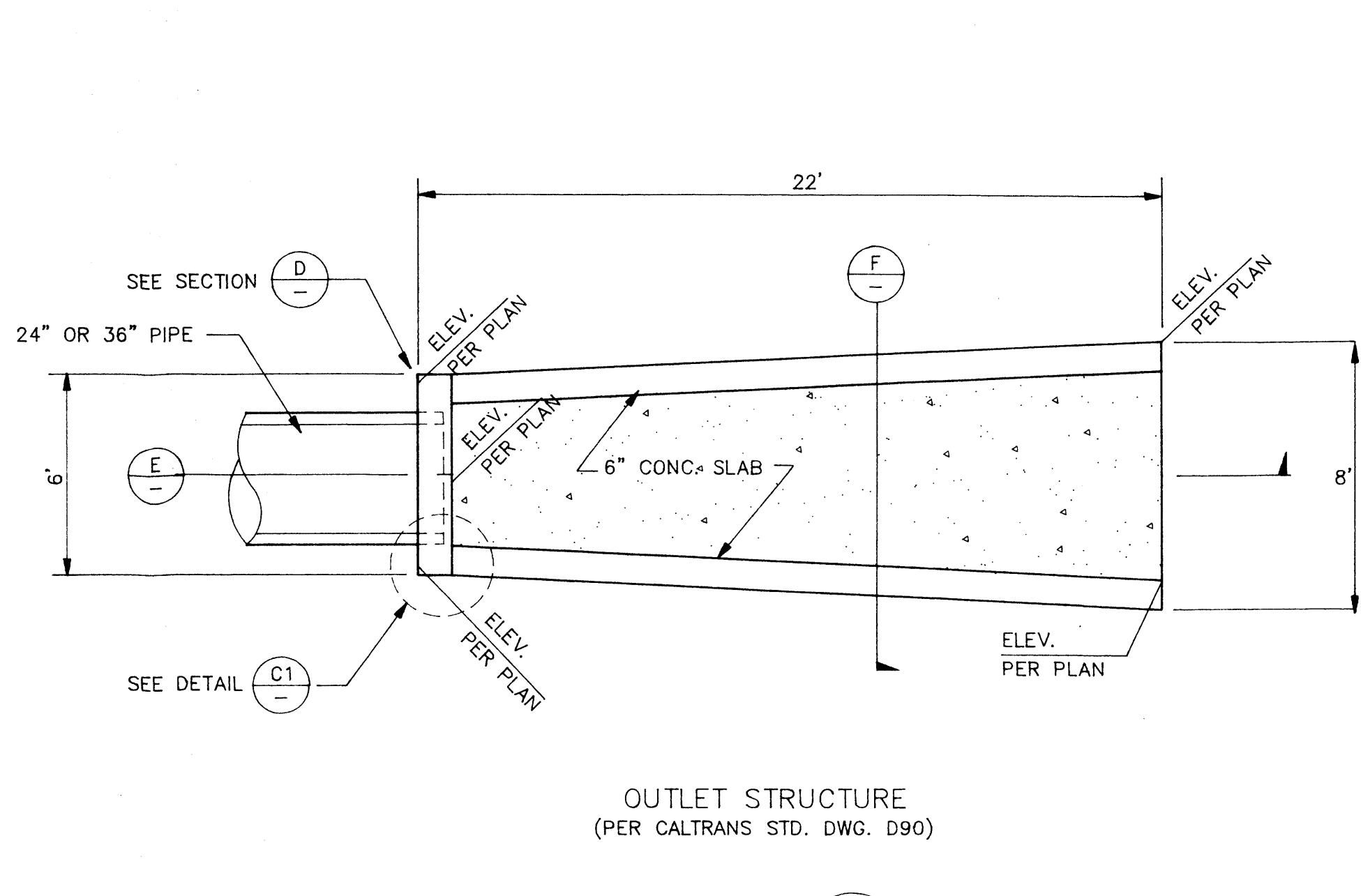
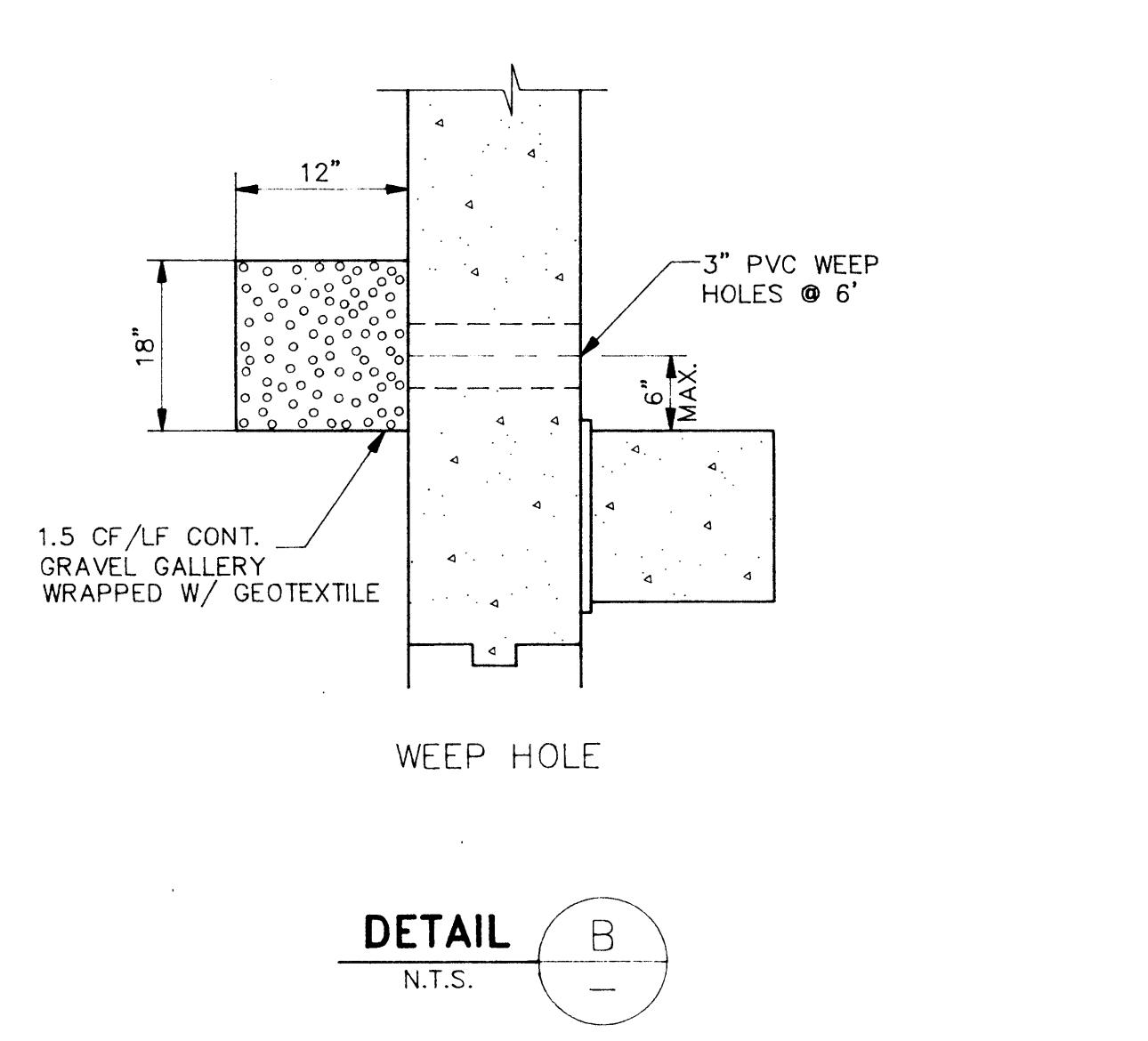
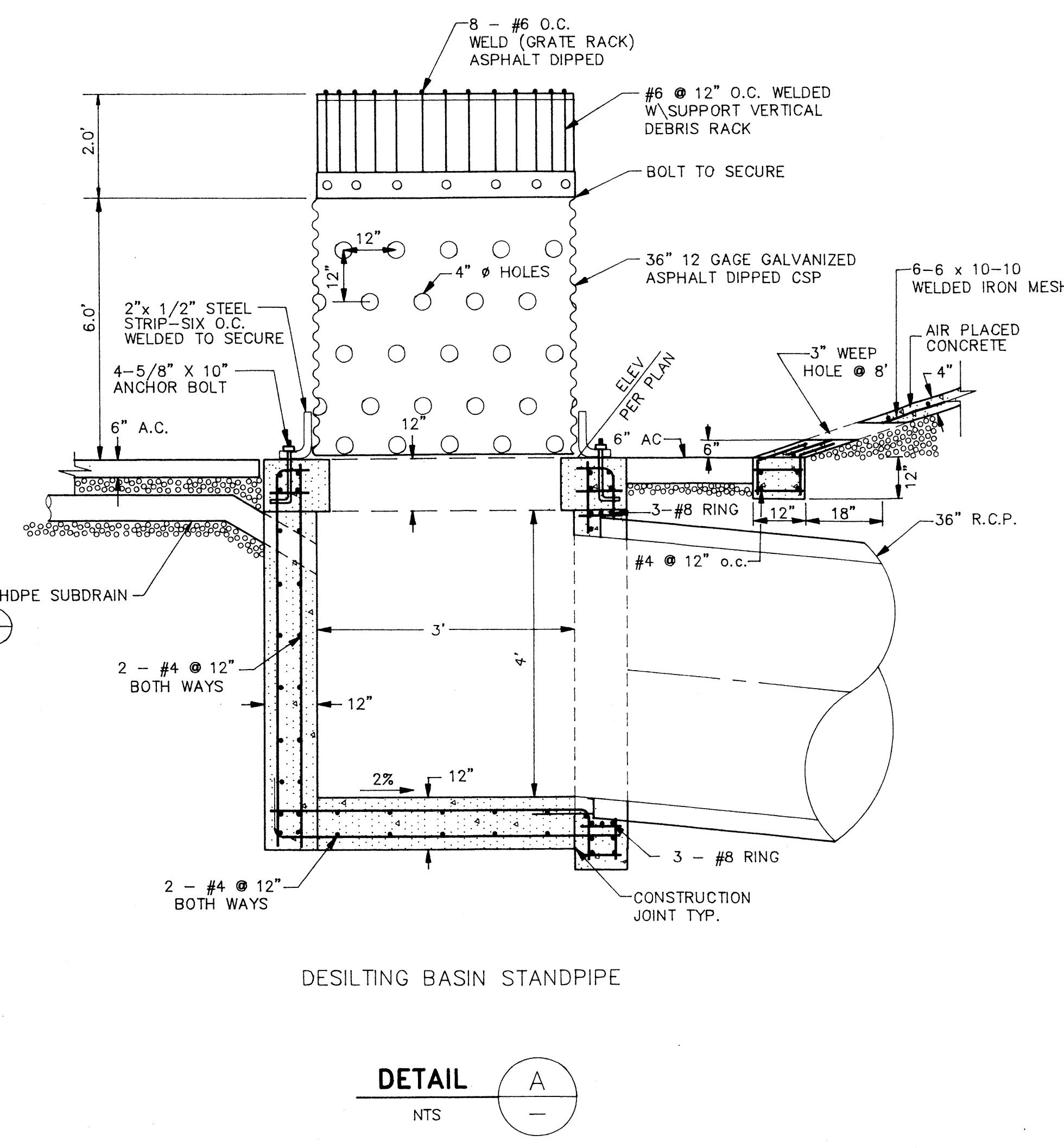
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SHEET NO.
DWG. NO.
JOB NO.
9258-108


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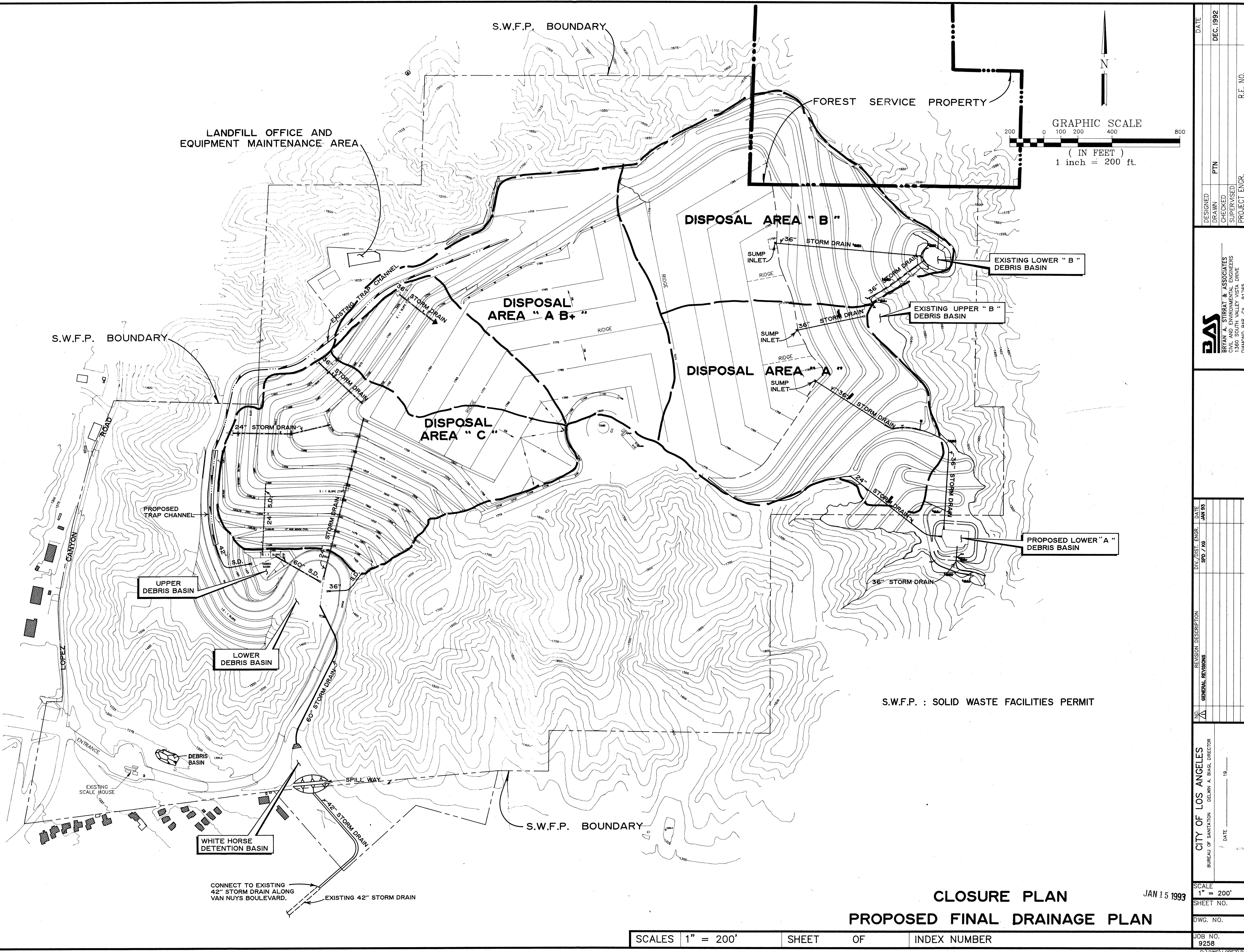
JAN 15 1993

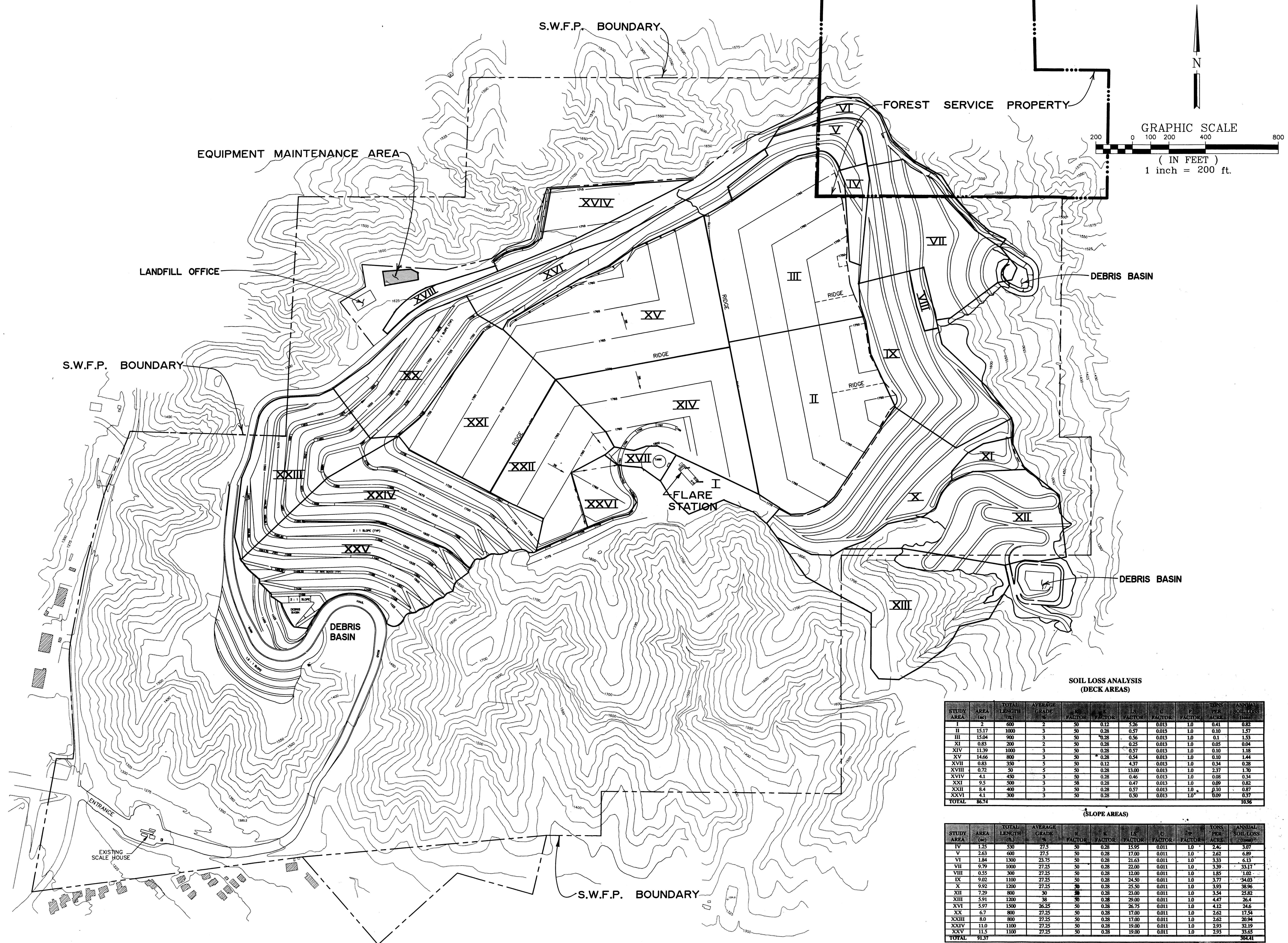
CLOSURE PLAN DRAINAGE DETAILS



DATE
6/19/92
6/19/92
7/14/92







DATE DEC. 92
DESIGNED BY PTN
DRAWN BY
CHECKED BY
SUPERVISED BY
PROJECT ENGR.
ASST. DIV./DIST. ENGR.
R.E. NO.
R.E. NO.

BAS
BRYAN A. SIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
350 SOUTH VALLEY WAY DRIVE
DIAMOND BAR, CA 91765

LOPEZ CANYON LANDFILL

NO.	GENERAL REVISION	DESCRIPTION	DATE	SPD / KG
			JAN 1993	

CITY OF LOS ANGELES
BUREAU OF SANITATION DELWIN A. BAGI, DIRECTOR
DATE 19
DIVISION ENGR. R.E. NO.

SCALE 1" = 200'
SHEET NO.
DWG. NO.
JOB NO.
9258
11-24-92

CLOSURE PLAN SOIL LOSS ANALYSIS PLAN

JAN 15 1993

SCALES 1" = 200' SHEET OF INDEX NUMBER

LOPEZ CANYON
FINAL CLOSURE 100-YEAR HYDROLOGY STUDY
HEC-1 RUNOFF SUMMARY TABLE

Canyon Slope "A"	Sub Area Name	Sub Area Acres	Sum Area Acres	Sub Area Runoff CFS	Sum Runoff CFS
1AA	9.2	9.2	30	30	30
2AA	11.4	20.6	39	69	
3AA	7.3	27.9	24	93	
4AA	8.8	8.8	29	29	
5AA	2.2	11.0	8	37	
6AA		38.9		130	

Canyon Slope "B"	Sub Area Name	Sub Area Acres	Sum Area Acres	Sub Area Runoff CFS	Sum Runoff CFS
1BB	12.0	12.1	38	38	38
2BB	12.4	24.5	43	81	
3BB	7.8	32.3	26	107	
4BB	2.0	9.0	28	28	
5BB	8.7	17.7	31	59	
6BB		50.0		165	

Canyon Area "C"	Sub Area Name	Sub Area Acres	Sum Area Acres	Sub Area Runoff CFS	Sum Runoff CFS
1A	13.6	13.6	41	41	41
2A	13.0	26.6	48	89	
3A	4.6	31.2	16	105	
4B	9.5	9.5	30	30	
5B	6.7	16.2	19	49	
6AB		47.4		154	
7A	2.5	49.9	7	161	
8A	2.6	52.5	8	169	
9C	8.0	8.0	27	27	
10AC		60.5		196	
11A	8.2	68.7	29	225	
12D	11.0	11.0	39	39	
13D	11.5	22.5	39	78	
14AD		91.2		303	
15A	4.2	95.4	13	316	
16E	12.3	12.3	41	41	
17E	5.1	17.4	17	58	
18E	8.4	25.8	29	87	
19E	5.1	30.9	18	105	
20AE		126.3		421	
21A	14.7	141.0	53	474	
22A	3.3	144.3	10	484	

S.W.F.P. BOUNDARY

FOREST SERVICE PROPERTY

N

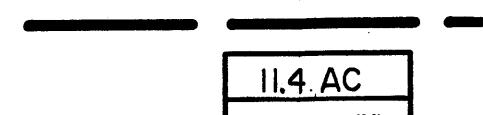
GRAPHIC SCALE
(IN FEET)
1 inch = 200 ft.

DATE	DEC / 1992
DESIGNED	A.C.R.
DRAWN	H.M.G.
CHECKED	
SUPERVISED	
PROJECT ENGR.	R.E. NO.
ASST. DIV.	R.E. NO.
DIST. ENGR.	

BAS
BRYAN A. STIBRAY & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 SOUTH VALLEY VISTA DRIVE
DIAMOND BAR, CA. 91765

LOPEZ
CANYON
LANDFILL

- CRITERIA
 * LOS ANGELES COUNTY HYDROLOGY MANUAL (1982)
 * 100- YEAR HYDROLOGY
 * SOIL GROUP ROMONA CLAY (FINAL COVER)
 * RAINFALL ZONE "L"
 * USED COMPUTER PROGRAM HEC - I

LEGEND
 DRAINAGE TRIBUTARY AREA
 SUB - AREA BOUNDARY
 AREA IN ACRES AND SQUARE MILES
 SUB - AREA NODE DESCRIPTION
 CONFLUENCE OF STREAMS
RUNOFF Q100 IN C.F.S.

GENERAL REVISIONS	SPD / KG	DATE
	JAN 15 1993	

GENERAL REVISIONS	SPD / KG	DATE
	19	

GENERAL REVISIONS	SPD / KG	DATE

GENERAL REVISIONS	SPD / KG	DATE

GENERAL REVISIONS	SPD / KG	DATE

GENERAL REVISIONS	SPD / KG	DATE

11-24-92

CLOSURE PLAN
100 - YEAR FINAL CLOSURE HYDROLOGY MAP

SCALES 1" = 200' SHEET OF INDEX NUMBER

JAN 15 1993

SCALE
1" = 200'

SHEET NO.

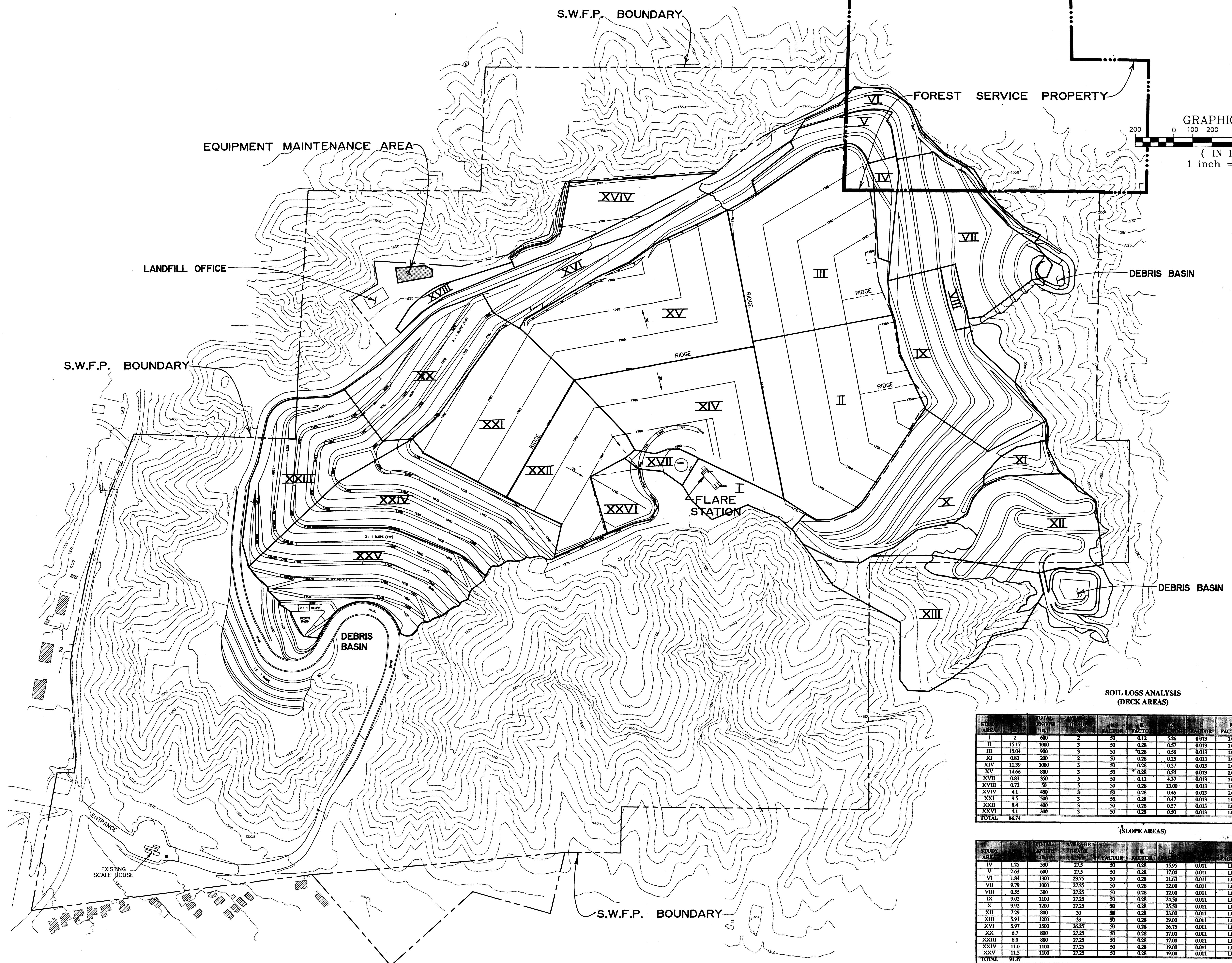
DWG. NO.

INDEX NUMBER

JOHN

9258

G:\DWG\LOPEZ\BIGJOHN



**CLOSURE PLAN JAN 15 1993
SOIL LOSS ANALYSIS PLAN**

SCALES 1" = 200' SHEET OF INDEX NUMBER

DESIGNED	DATE
DRAWN	DEC. 92
CHECKED	PTN
SUPERVISED	
PROJECT ENGR.	
ASST. DIV./INST. ENGR.	
R.E. NO.	
R.E. NO.	



BRYAN A. SIRRAT & ASSOCIATES

CIVIL AND ENVIRONMENTAL ENGINEERS

1360 SOUTH VALLEY VISTA DRIVE

DIAMOND BAR, CA. 91765

LOPEZ CANYON LANDFILL

**SOIL LOSS ANALYSIS
(DECK AREAS)**

STUDY AREA	AREA (ac)	TOTAL LENGTH (ft)	AVERAGE GRADE %	R FACTOR	K FACTOR	Ls FACTOR	C FACTOR	P FACTOR	TONS PER ACRE	ANNUAL SOIL LOSS (ton/yr)
I	2	600	2	50	0.12	0.26	0.013	1.0	0.41	0.82
II	15.17	900	3	50	0.28	0.57	0.013	1.0	0.10	1.57
III	15.04	900	3	50	0.28	0.56	0.013	1.0	0.1	1.53
IV	1.25	200	2	50	0.28	0.25	0.013	1.0	0.05	0.04
V	1.59	100	3	50	0.28	0.26	0.013	1.0	0.10	1.18
VI	14.66	900	3	50	0.28	0.54	0.013	1.0	0.10	1.44
VII	0.83	350	5	50	0.12	0.57	0.013	1.0	0.24	0.70
VIII	0.72	50	5	50	0.28	1.00	0.013	1.0	2.27	1.70
XIV	4.1	450	3	50	0.28	0.46	0.013	1.0	0.08	0.34
XI	9.5	500	3	50	0.28	0.47	0.013	1.0	0.09	0.82
XII	8.4	400	3	50	0.28	0.57	0.013	1.0	0.10	0.87
XXVI	4.1	300	3	50	0.28	0.50	0.013	1.0	0.09	0.37
TOTAL	86.74									16.96

(SLOPE AREAS)

STUDY AREA	AREA (ac)	TOTAL LENGTH (ft)	AVERAGE GRADE %	R FACTOR	K FACTOR	Ls FACTOR	C FACTOR	P FACTOR	TONS PER ACRE	ANNUAL SOIL LOSS (ton/yr)
IV	1.25	330	27.5	50	0.28	1.55	0.011	1.0	2.46	3.07
V	2.2	600	27.5	50	0.28	1.70	0.011	1.0	2.62	6.89
VI	1.84	1000	27.5	50	0.28	2.13	0.011	1.0	3.33	6.13
VII	0.79	1000	27.5	50	0.28	2.00	0.011	1.0	3.27	11.02
VIII	0.55	300	27.5	50	0.28	1.20	0.011	1.0	1.35	1.12
IX	9.02	1100	27.5	50	0.28	2.49	0.011	1.0	3.77	24.03
X	9.92	1200	27.5	50	0.28	2.50	0.011	1.0	3.93	38.96
XII	7.29	800	30	50	0.28	2.00	0.011	1.0	3.54	25.82
XIII	5.91	1200	38	50	0.28	2.00	0.011	1.0	4.47	26.4
XVI	5.97	1500	26.25	50	0.28	26.75	0.011	1.0	4.12	24.6
XX	6.7	800	27.25	50	0.28	17.00	0.011	1.0	2.62	17.54
XXI	5.01	800	27.25	50	0.28	17.00	0.011	1.0	2.62	20.94
XXIV	11.0	1000	27.25	50	0.28	19.00	0.011	1.0	2.93	32.19
XXV	11.5	1100	27.25	50	0.28	19.00	0.011	1.0	2.93	33.65
TOTAL	91.37									304.41

SCALE
1" = 200'


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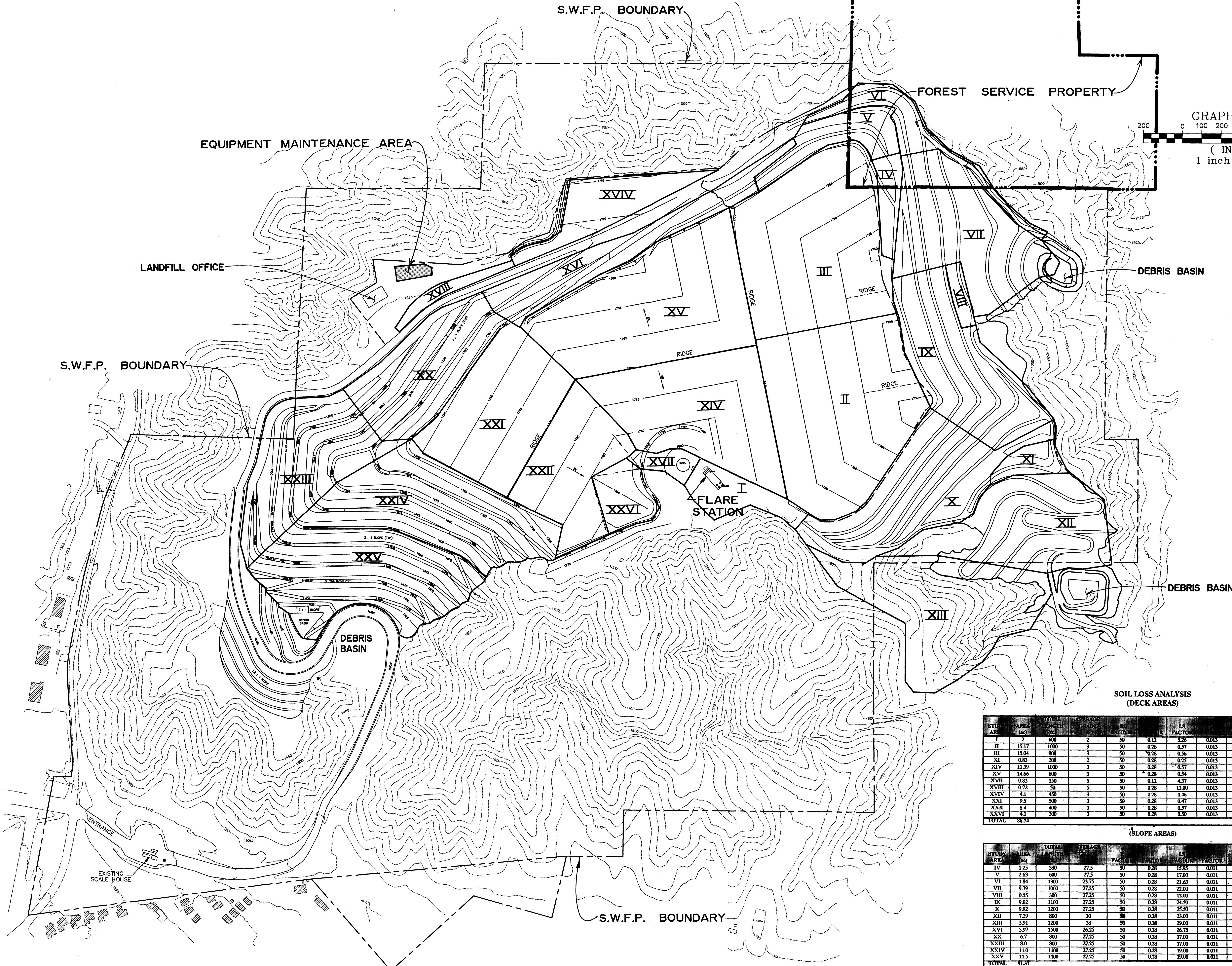
DWG. NO.

JOB NO.

9258

G:\DWG\LOPEZ\BIG.JOH





CLOSURE PLAN JAN 15 1993
SOIL LOSS ANALYSIS PLAN

SCALES 1" = 200' SHEET OF INDEX NUMBER

DATE DEC 92
DRAWN PTN
CHECKED
SUPERVISED
PROJECT ENGR.
ASST. DIV./DIST. ENGR.
R.E. NO.
R.E. NO.
BAS
BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 SOUTH VALLEY VISTA DRIVE
DIAMOND BAR, CA. 91765

LOPEZ CANYON LANDFILL

NO.	GENERAL REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE
		SPD / KG	JAN 93

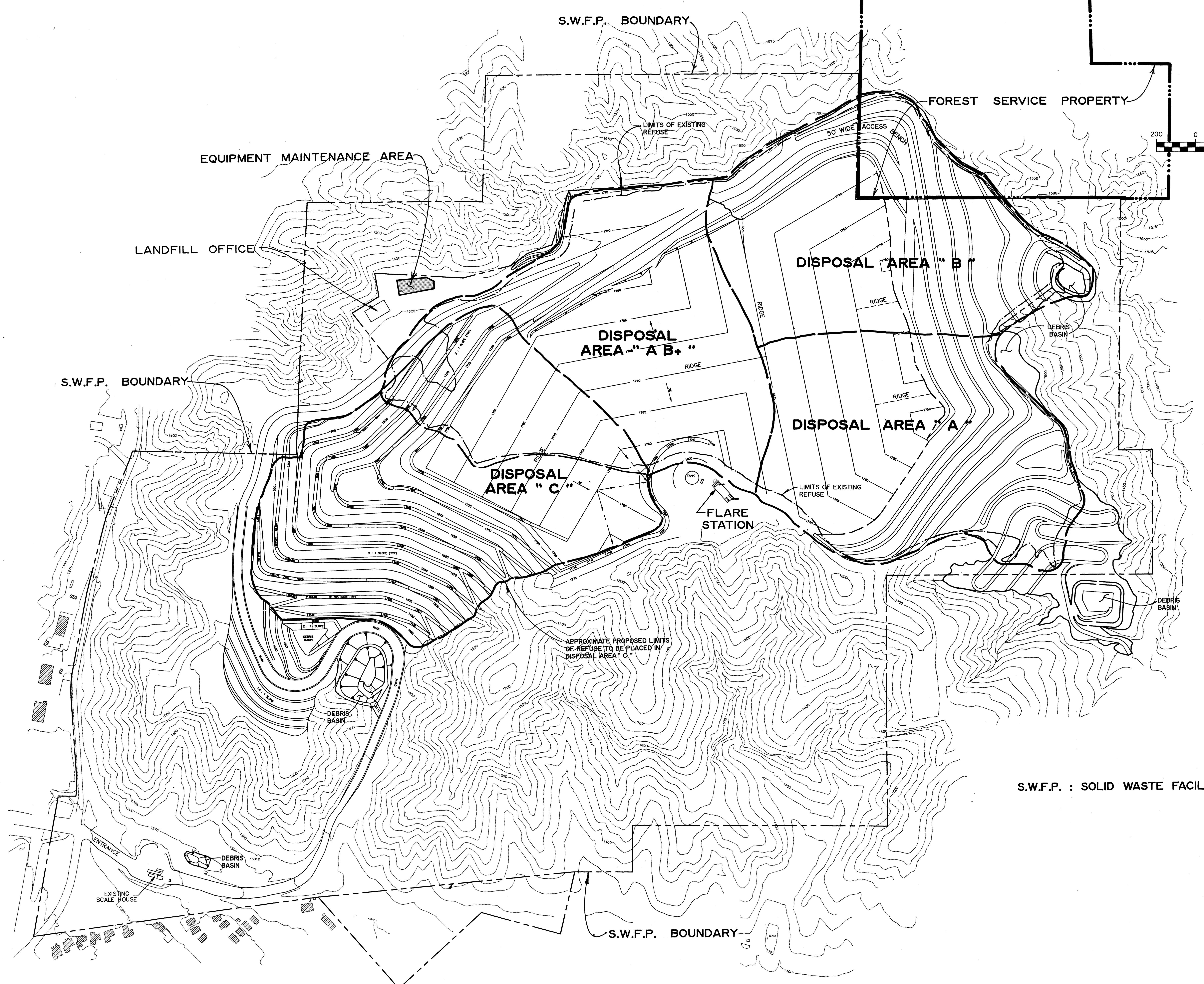
CITY OF LOS ANGELES	BUREAU OF SANITATION	DELWIN A. BIAGI, DIRECTOR	DATE
			19

SCALE 1" = 200'	SHEET NO.

DWG. NO.
9258

JOB NO.
9258

11-24-92



CLOSURE PLAN
PROPOSED FINAL GRADING PLAN

JAN 15 1993

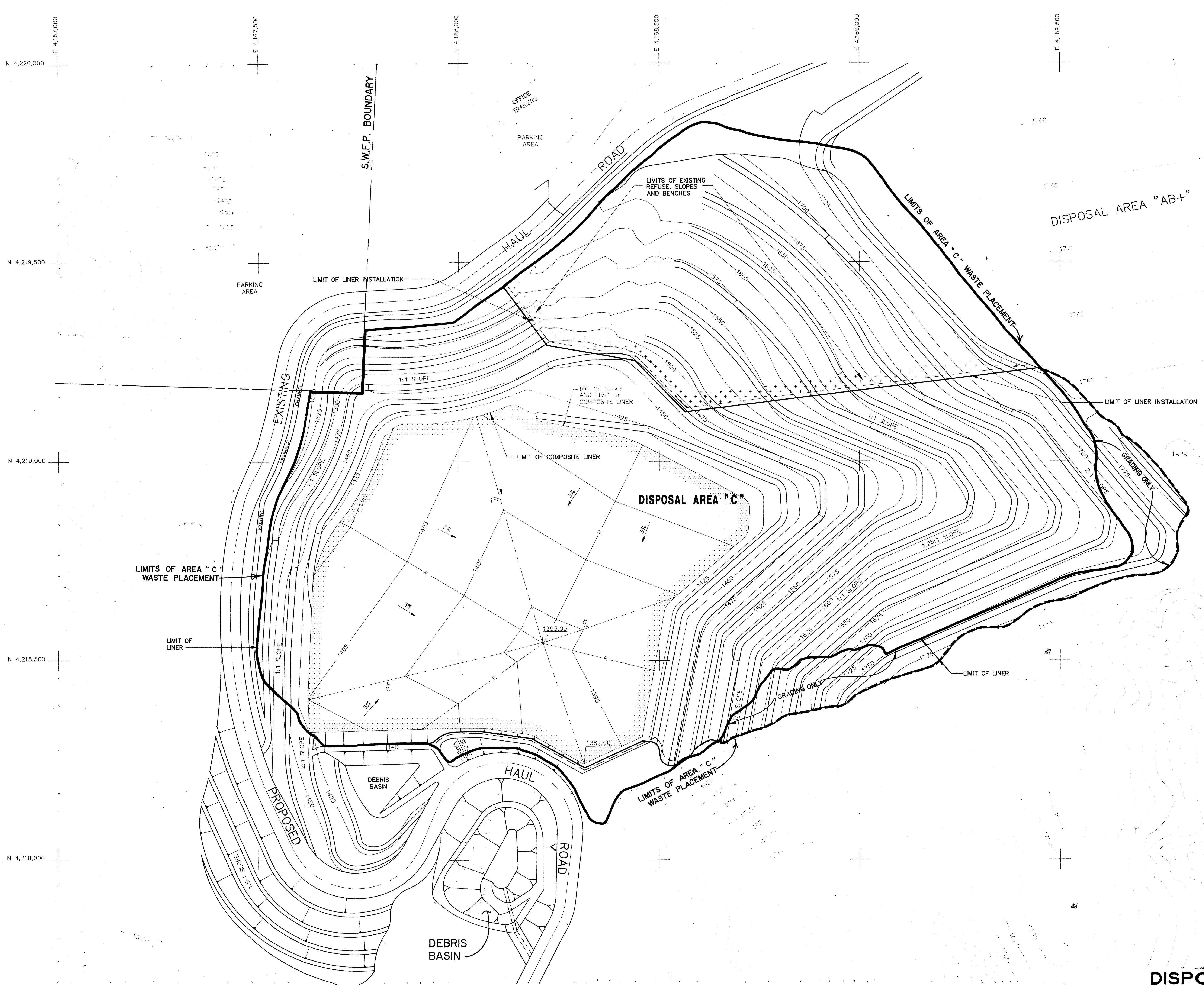
SCALE 1" = 200'
SHEET NO.
DWG. NO.
INDEX NUMBER

DATE	DEC. / 1992
DESIGNED	H.M.G.
DRAWN	
CHECKED	
SUPERVISED	
PROJECT ENGR.	R.E. NO.
ASST. DIV./DIST. ENGR.	R.E. NO.

BAS
BRYAN A. STIRRAT & ASSOCIATES
CIVIL AND ENVIRONMENTAL ENGINEERS
1360 SOUTH VALLEY VISTA DRIVE
DIAMOND BAR, CA
91765

**LOPEZ
CANYON
LANDFILL**

GENERAL REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE
	SPD / KG	JAN 93
NO.	GENERAL REVISIONS	
CITY OF LOS ANGELES		
BUREAU OF SANITATION	DELWIN A. BIGI, DIRECTOR	
DATE	19	
DIV./DIST. ENGR.	R.E. NO.	




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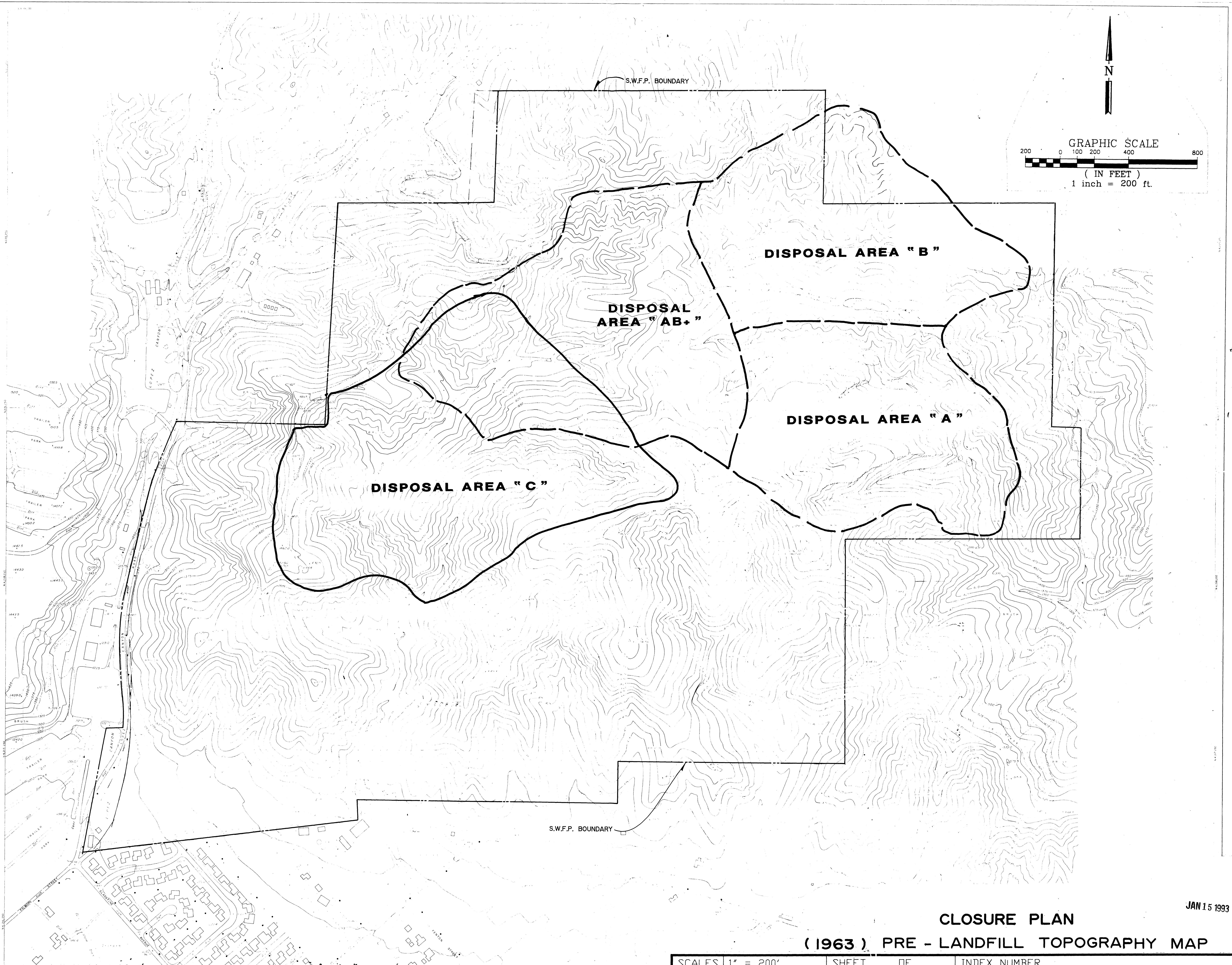
DATE	
DRAWN	M.J.B.
CHECKED	D.L.L. & C.J.G.
SUPERVISED	J.A.I.
PROJECT ENGR.	E.L.S.
ASST. DIV./DIST. ENGR.	R.E. NO.
RE. NO.	



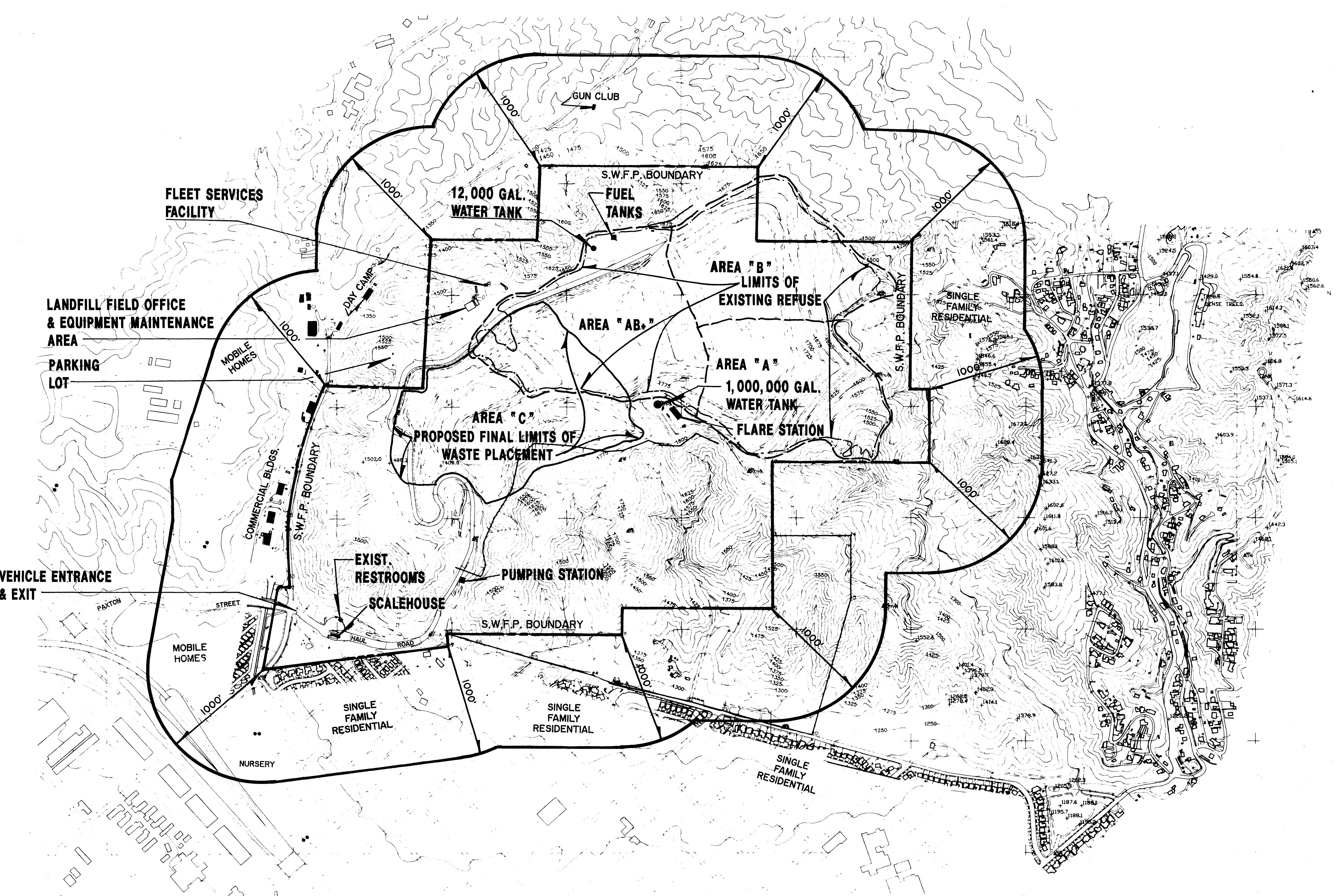
LOPEZ CANYON LANDFILL

CITY OF LOS ANGELES	GENERAL NOTES	REVISION DESCRIPTION	DIV./DISP. ENGR.	DATE
BUREAU OF SANITATION	DELINN A. BIASI, DIRECTOR		SPD / KG	JAN 93
DATE 19				
DISP/ENGR. R.E. NO.				
SCALE	AS SHOWN	SHEET NO.		
SHEET NO.				
DWG. NO.				
JOB NO.	9035-1026			





DESIGNED	E.L.S.	DATE	
DRAWN	H.M.G.	12/93	
CHECKED	E.L.S.	12/93	
SUPERVISED	E.L.S.	12/93	
PROJECT ENGR.	R.E. NO.		
ASST. DIV./DIST. ENGR.	R.E. NO.		
BAI		BRYAN A. STURATT & ASSOCIATES	
		CIVIL AND ENVIRONMENTAL ENGINEERS	
		1360 SOUTH VALLEY VISTA DRIVE	
		DIAMOND BAR, CA 91765	



GRAPHIC SCALE
 500 0 250 500 1000 2000
 (IN FEET)
 1 inch = 500 ft.

BAS
 BRYAN A. STRATTON & ASSOCIATES
 CIVIL AND ENVIRONMENTAL ENGINEERS
 1560 VALLEY VISTA DRIVE
 DIAMOND BAR, CA. 91765
 (714) 860-7777

LOPEZ CANYON LANDFILL

REVISION DESCRIPTION: JAN 93
 SP'D / KG: JAN 93
 GEN'L. REVISIONS: JAN 93

CITY: LOS ANGELES
 HIRING AGENT: LEWIN A. BAGLIO, DIRECTOR
 DIVISION: JAN 93
 DIV'D. ENGR. REC'D.: 19

FILE'D.
 SHEET NO.:
 DWG. NO.:
 RIB. NO.:
 INT'L. N. NO.:
 JUN 15 1993

TOTAL ACREAGE UNDER SOLID
 WASTE FACILITY PERMIT (S.W.F.P.)
 (INCLUDES SEVEN ACRE PARCEL
 LEASED FROM THE U.S. FOREST
 SERVICE)

= 399 ACRES

CLOSURE PLAN
1000' RADIUS MAP