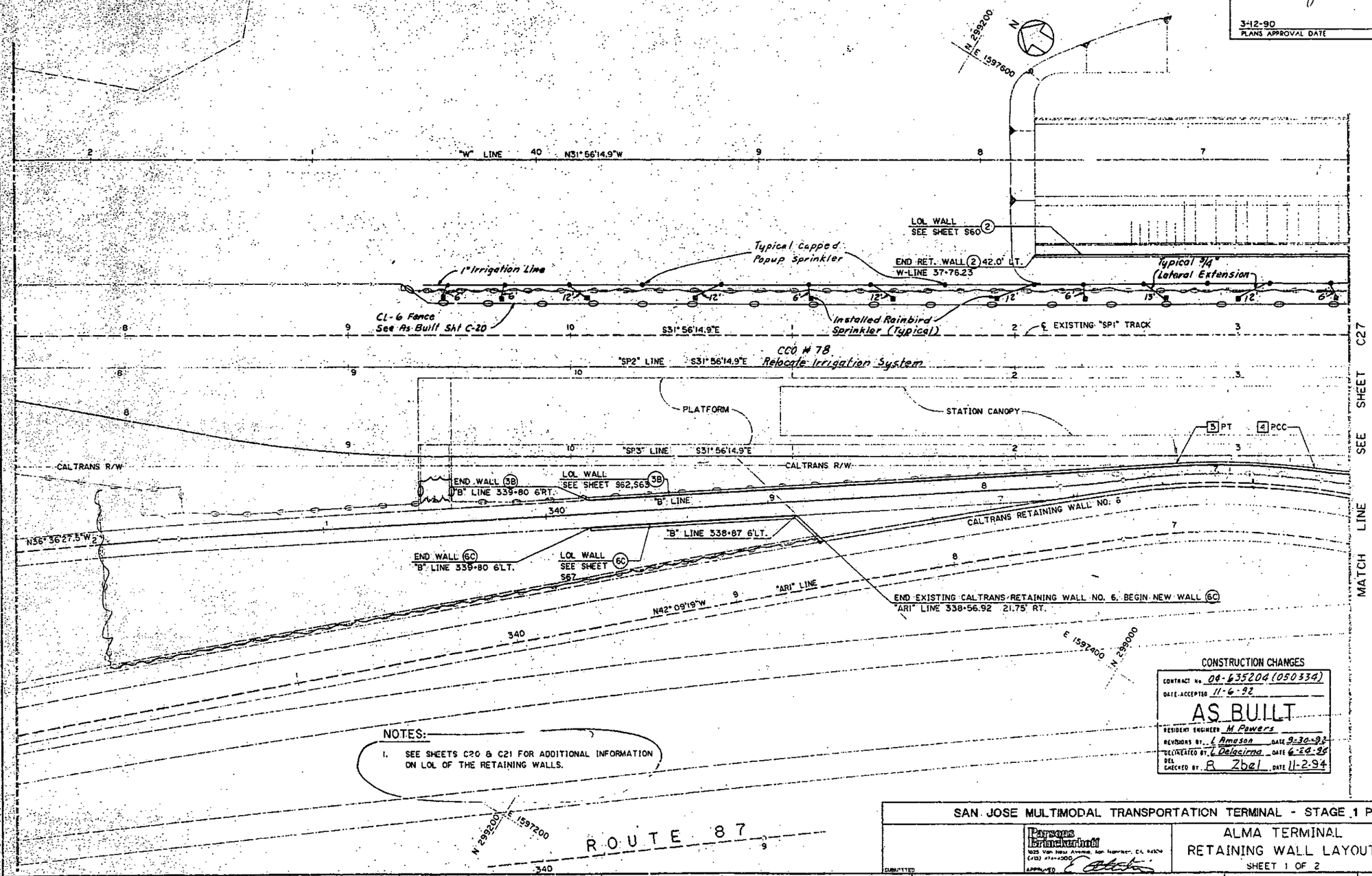
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	0	SJs	28	184

REGISTERED CIVIL ENGINEER

3-12-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
K.Y.R. CHOY
No. C34013
Exp. 6/30/91
CIVIL
STATE OF CALIFORNIA



NOTES:

1. SEE SHEETS C20 & C21 FOR ADDITIONAL INFORMATION ON LOL OF THE RETAINING WALLS.

CONSTRUCTION CHANGES

CONTRACT No. 04-635204 (050334)
DATE ACCEPTED 11-6-92
AS BUILT
RESIDENT ENGINEER M Powers
REVISIONS BY L Amason DATE 9-30-93
DELINEATED BY L Delacirna DATE 6-24-94
DEL CHECKED BY R Zbel DATE 11-2-94

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff
1025 Van Ness Avenue, San Francisco, CA 94109
(415) 474-4500
APPROVED

ALMA TERMINAL
RETAINING WALL LAYOUT
SHEET 1 OF 2

SCALE 1" = 20'
SHEET NO. - REV. C26

CU 04 111
EA 635200

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER
CALCULATED/DESIGNED BY RKC DATE 1/31/89 REVISED BY
CHECKED BY GJB 1/4/89 DATE REVISED

PC-SJ049_10_0028

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	0	SJs	29	184

REGISTERED CIVIL ENGINEER

3-12-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER K.Y.R. CHOY No. C34013 Exp. 6/30/91 CIVIL STATE OF CALIFORNIA

SPRR PL

"W" LINE

N31°56'14.9"W

N 298800 E 1597800

RET. WALL (2) 42.00'LT. "W" LINE 35+86.23

RET. WALL (1) 42.00'LT. "W" LINE 34+90.89

Typical Capped Popup Sprinkler

END RET. WALL (1) 42.00'LT. "W" LINE 32+90.89

1" Irrigation Lateral

LOL WALL (2) SEE SHT. S60

S58°03'45.1"W

LOL WALL (1) SEE SHT. S60

BEG. RET. WALL (1) 62.50' LT. "W" LINE 34+90.89

BEG. RET. WALL (2) 62.50'LT. "W" LINE 35+86.23

Typical Rainbird Sprinkler and 3/16" Lateral Extension

S31°56'14.9"E

CL-6 Fence See As Built Sht 21

CCO # 78 Relocate Irrigation System

"SP2" LINE S31°56'14.9"E

LOL WALL (3B) SEE SHT. S62, S63

BEGIN RET. WALL (3B) 5' RT. "B" LINE 335+96.14

BEGIN RET. WALL (3A) 5' RT. "B" LINE 334+88.80

CALTRANS N 298,839.73 POINT G1 E 1,597,676.97

LOL WALL (3A) SEE SHT. S61

STATION CANOPY

"SP3" LINE S31°56'14.9"E

CALTRANS R/W

"B" LINE

N27°56'13"W

LOL WALL (5A) SEE SHT. S65

BEG. RET. WALL (4A), (4B) 5.0' LT. "B" LINE 335+17.26

LOL WALL (4B) SEE SHT. S64

LOL WALL (4A) SEE SHT. S64

END RET. WALL (4A) 6.0'LT. "B" LINE 332+90.26

END RETAINING WALL (3A) 6' RT. "B" LINE 332+05

BEG. RET. WALL (5A), (5B) 5.0' LT. "B" LINE 335+46.60

LOL WALL (6A) SEE SHT. S66

LOL WALL (5B) SEE SHT. S65

MATCH LINE

"C" LINE

END RETAINING WALL, (4B) MATCH EXISTING WALL (APPROX. "C" LINE 76+25, 10.62' LT.)

BEGIN CALTRANS RET. WALL NO. 6 END RETAINING WALL (6A) "ARI" LINE 336+06 21.75' RT.

RETAINING WALL PT "ARI" LINE 334+33.43 21.75' RT.

END RET. WALL (5B) 3.0' RT. "C" LINE 76+38.16

"ARI" LINE

S15°11'17"W

END RET. WALL (5A) 4.5' LT. "B" LINE 336+26.00

N 298600 E 1597600

ROUTE 87

"G1" LINE

N31°19'05"W

EXISTING BRIDGE COLUMN (TYP.)

BEGIN RETAINING WALL (6A) "ARI" LINE 333+00 56.42' RT.

CONSTRUCTION CHANGES
CONTRACT No. 04-635204 (050334)
DATE ACCEPTED 11-6-92
AS BUILT
RESIDENT ENGINEER M. Powers
REVISIONS BY L. Amazon DATE 9-30-92
DELINEATED BY L. Delgadina DATE 6-22-94
DCL CHECKED BY R. Zbal DATE 11-2-94

N 298400 E 1597200

NOTES:

1. SEE STRUCTURAL DRAWINGS S40-S46 FOR DETAILS OF JUNCTIONS BETWEEN RETAINING WALLS 1, 2, 3A, 3B AND THE CONCOURSE.
2. SEE SHEETS C20 & C21 FOR ADDITIONAL LAYOUT INFORMATION ON LOL OF THE RETAINING WALLS.

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff
1625 Van Ness Avenue, San Francisco, CA. 94109
(415) 474-4900

APPROVED

ALMA TERMINAL
RETAINING WALL LAYOUT
SHEET 2 OF 2

SCALE 1" = 20'

SHEET NO. - REV. C27

SUBMITTED

CU 04 111 | EA 635200

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

PROJECT ENGINEER

CALCULATED BY RKC DATE 11/15
DESIGNED BY
CHECKED BY DATE REVISED BY

SEE SHEET C26

Gilbane

PC_SL049_10_0029

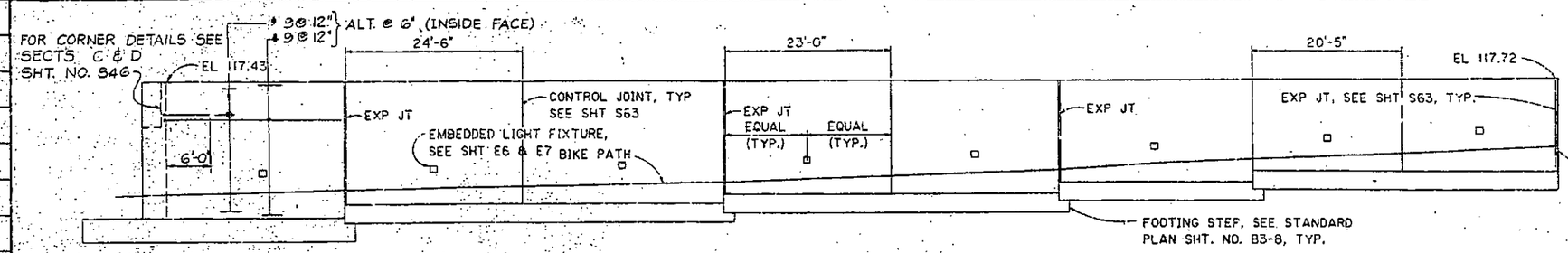
< 24

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	0	Sds	103	184

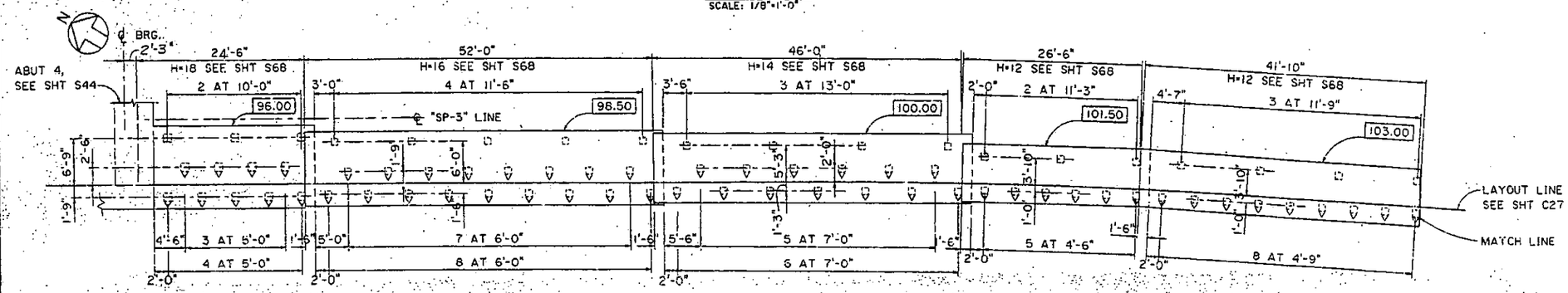
REGISTERED STRUCTURAL ENGINEER

3-12-90
PLANS APPROVAL DATE

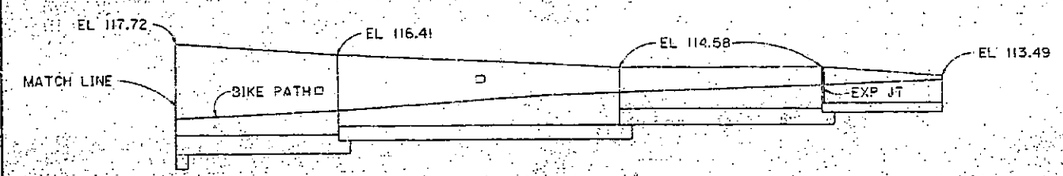
REGISTERED PROFESSIONAL ENGINEER RUDIE PIETERS No. S002005 Exp. 9/30/93 STRUCTURAL STATE OF CALIFORNIA



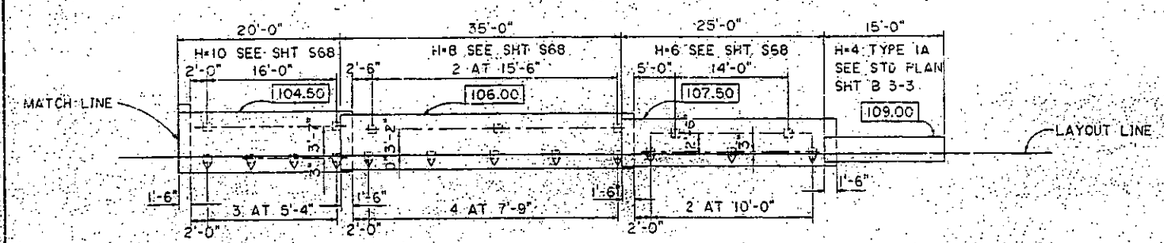
ELEVATION
SCALE: 1/8"=1'-0"



PLAN
SCALE: 1/8"=1'-0"



ELEVATION
SCALE: 1/8"=1'-0"



PLAN
SCALE: 1/8"=1'-0"

RETAINING WALL PILE DATA				
LOCATION		DESIGN LOAD	SPECIFIED TIP ELEV	PROBABLE TIP ELEV
WALL	HEIGHT			
3A	18	70 TON	36.00	31.00
3A	16	70 TON	38.50	33.50
3A	14	70 TON	40.00	35.00
3A	12	70 TON	41.50	36.50
3A	10	70 TON	44.50	39.50
3A	8	70 TON	46.00	41.00
3A	6	70 TON	47.50	42.50
3B	18 & SECT. A	70 TON	36.00	31.00
3B	16	70 TON	39.00	34.00
3B	14	70 TON	40.50	35.50
3B	12	70 TON	41.00	36.00
3B	10	70 TON	42.00	37.00
3B	8	70 TON	44.00	39.00
3B	6	70 TON	46.00	41.00
3B	4	70 TON	47.00	42.00

LEGEND:

- DENOTES VERTICAL PILES.
- DENOTES 1 : 3 BATTER PILES.
- DENOTES BOTTOM OF FOOTING ELEVATION.

NOTE:

RETAINING WALLS 3A AND 3B SHALL BE SUPPORTED BY 14-INCH SQUARE PRECAST PRESTRESSED CONCRETE PILES. FOR DETAILS SEE SHEET S24.

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff
1625 Van Ness Avenue, San Francisco, CA 94109
(415) 474-4500

SUBMITTED

APPROVED

ALMA TERMINAL
RETAINING WALL 3A

SCALE 1/8" = 1'-0"
SHEET NO. - REV. S61

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 04 111 EA 635200

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/DESIGNED BY | CHECKED BY | DATE | REVISED BY | DATE REVISED

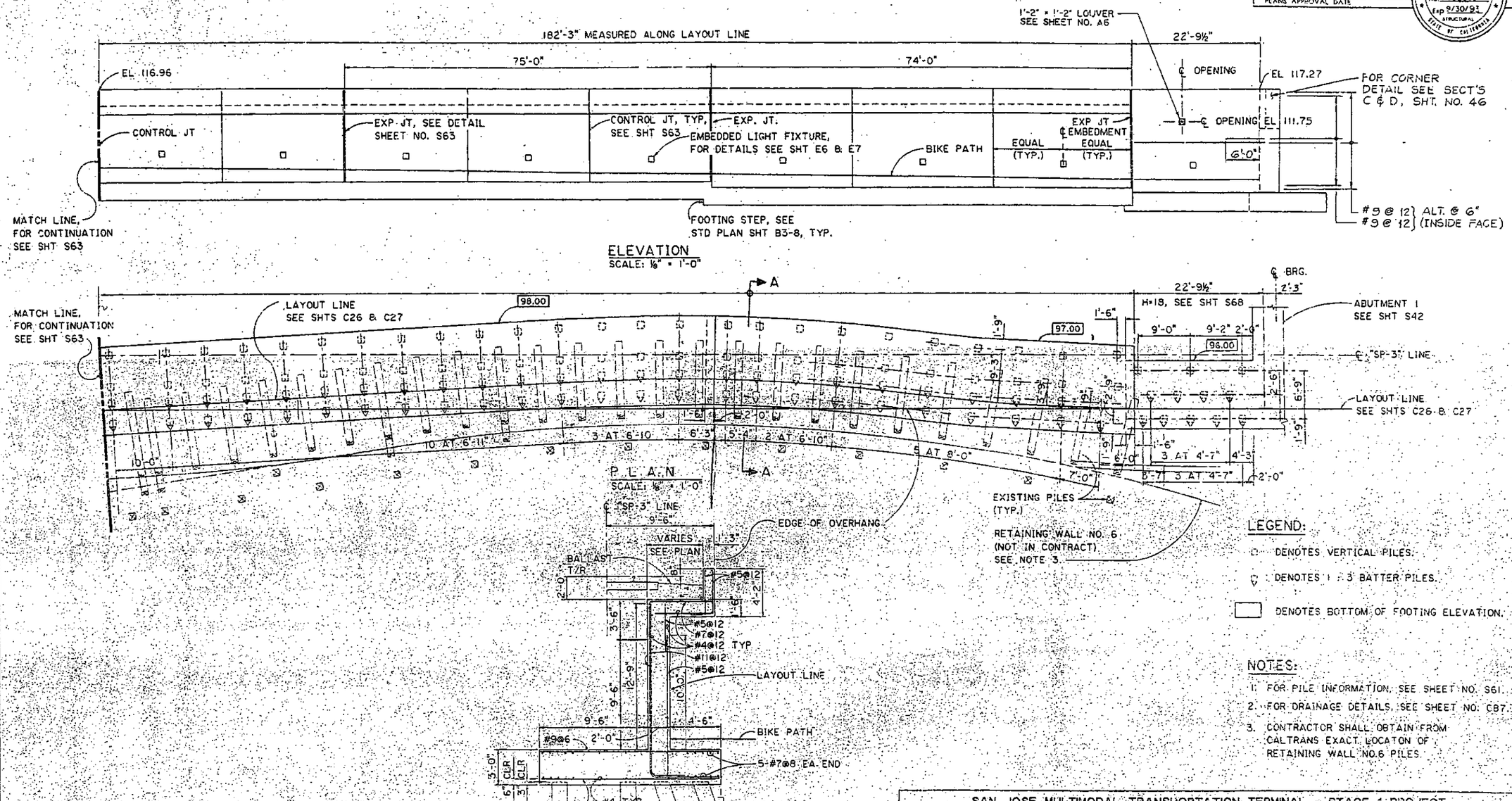
PC_ST_049_10_0103

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	0	SJs	104	154

REGISTERED STRUCTURAL ENGINEER

3-12-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RUDIE PIETERS No. S002005 Exp 9/30/93 STRUCTURAL STATE OF CALIFORNIA



LEGEND:

- □ DENOTES VERTICAL PILES.
- ▽ DENOTES 1 : 3 BATTER PILES.
- ▭ DENOTES BOTTOM OF FOOTING ELEVATION.

NOTES:

1. FOR PILE INFORMATION, SEE SHEET NO. S61.
2. FOR DRAINAGE DETAILS, SEE SHEET NO. C87.
3. CONTRACTOR SHALL OBTAIN FROM CALTRANS EXACT LOCATON OF RETAINING WALL NO.6 PILES.

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff
1635 Van Ness Avenue, San Francisco, CA 94109
(415) 474-4500

ALMA TERMINAL
RETAINING WALL 3B
SHEET 1

SCALE: AS NOTED
SHEET NO. REV.: S62

CU 04 111 EA 635200

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/DESIGNED BY: TBJ DATE: 4/4/89
CHECKED BY: MTG 4/11/89
REVISED BY
DATE REVISED

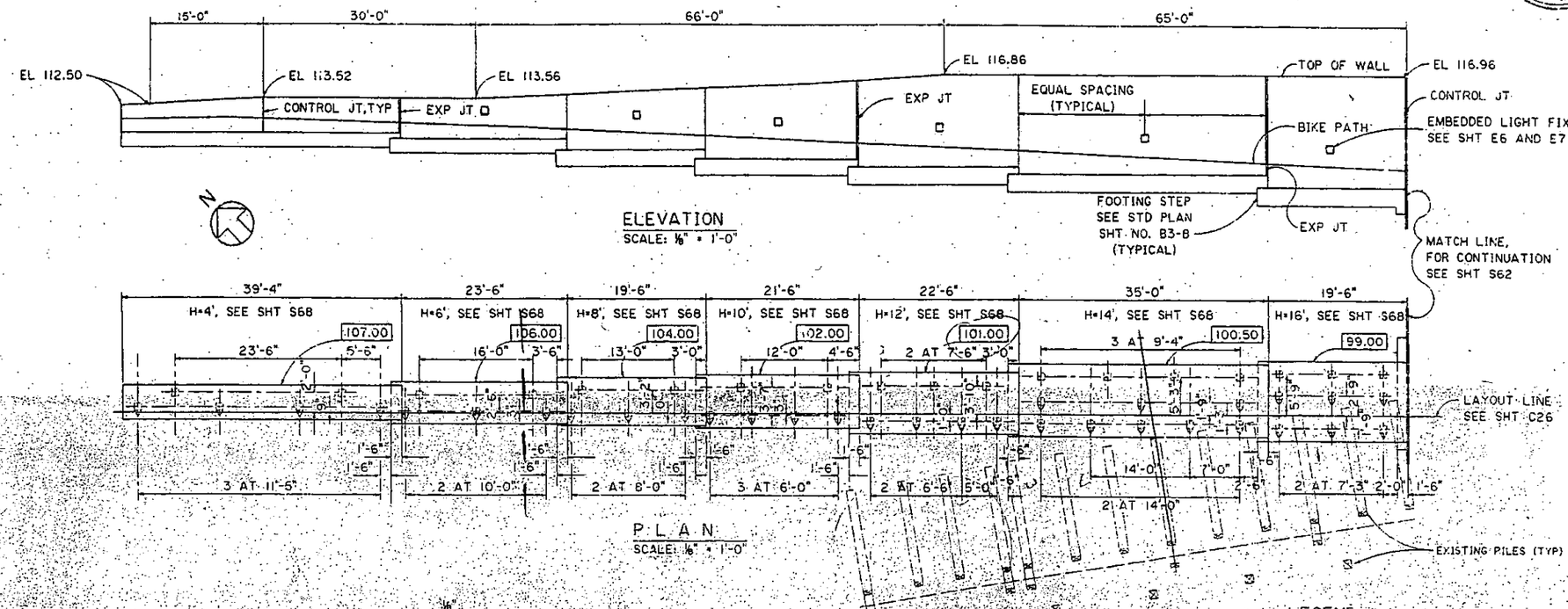
PC_ST_049_10_0104

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	0	SJs	105	164

REGISTERED STRUCTURAL ENGINEER

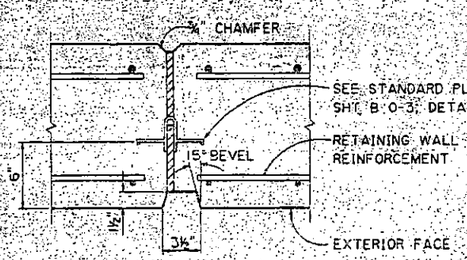
3-12-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUDIE PIETERS
No. S002005
Exp. 9/30/93
STATE OF CALIFORNIA

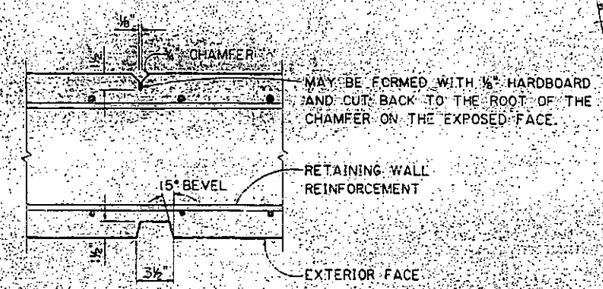


ELEVATION
SCALE: 1/8" = 1'-0"

PLAN
SCALE: 1/8" = 1'-0"



EXPANSION JOINT
SCALE: 2" = 1'-0"



CONTROL JOINT
SCALE: 2" = 1'-0"

LEGEND:

- DENOTES VERTICAL PILES.
- DENOTES 1 : 3 BATTER PILES.
- DENOTES BOTTOM OF FOOTING ELEVATION.

NOTES:

1. FOR PILE INFORMATION, SEE SHEET NO. S61.
2. FOR DRAINAGE DETAILS, SEE SHEET NO. C87.

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff
1625 Van Ness Avenue, San Francisco, CA 94109
(415) 474-4600
APPROVED

ALMA TERMINAL
RETAINING WALL 3B
SHEET 2

SCALE: AS NOTED
SHEET NO. REV. S63

CU 04 111
EA 635200

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/DESIGNED BY | DATE | REVISED BY
CHECKED BY | DATE REVISED

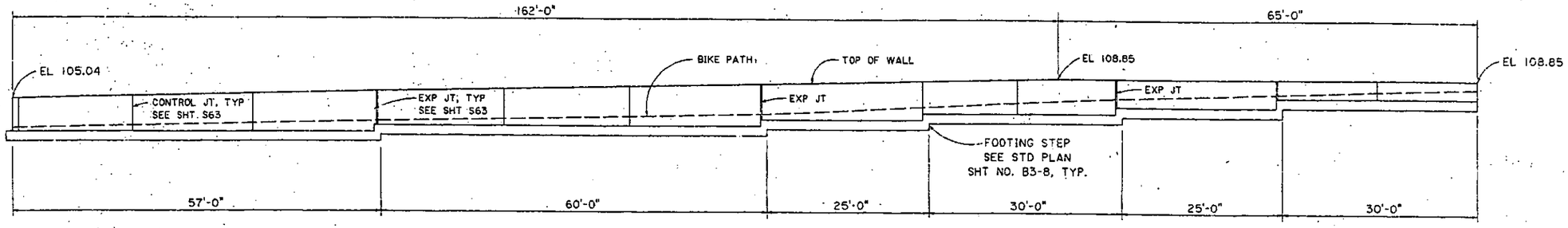
PC-ST-049-10-0105

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	0	SJs	106	184

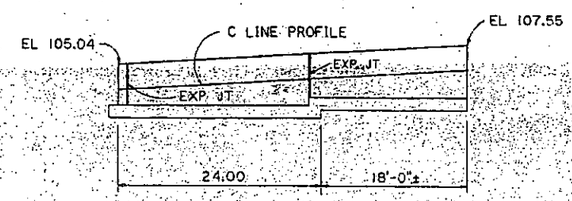
REGISTERED STRUCTURAL ENGINEER

3-12-90
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RUDIE PIETERS
No. S002005
Exp 9/30/93
STRUCTURAL
STATE OF CALIFORNIA

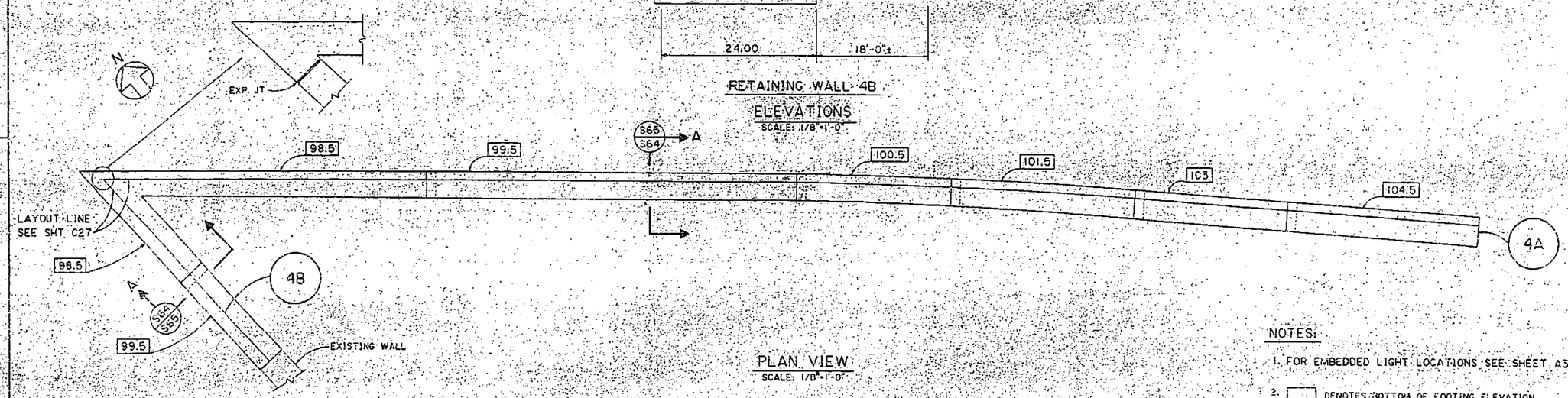


RETAINING WALL 4A



RETAINING WALL 4B

ELEVATIONS
SCALE: 1/8"=1'-0"



PLAN VIEW
SCALE: 1/8"=1'-0"

NOTES:

1. FOR EMBEDDED LIGHT LOCATIONS SEE SHEET A3.
2. ☐ DENOTES BOTTOM OF FOOTING ELEVATION.

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff
1625 Van Ness Avenue San Francisco, CA. 94109
(415) 474-4500

SUBMITTED
APPROVED

ALMA TERMINAL
RETAINING WALLS 4A & 4B

SCALE ½" = 1'-0"
SHEET NO. - REV. S64

CU 04 111
EA 635200

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/DESIGNED BY RJ DATE 9/31/89 REVISED BY
CHECKED BY MTG 9/31/89 DATE REVISED

PC_ST_049_10_0106

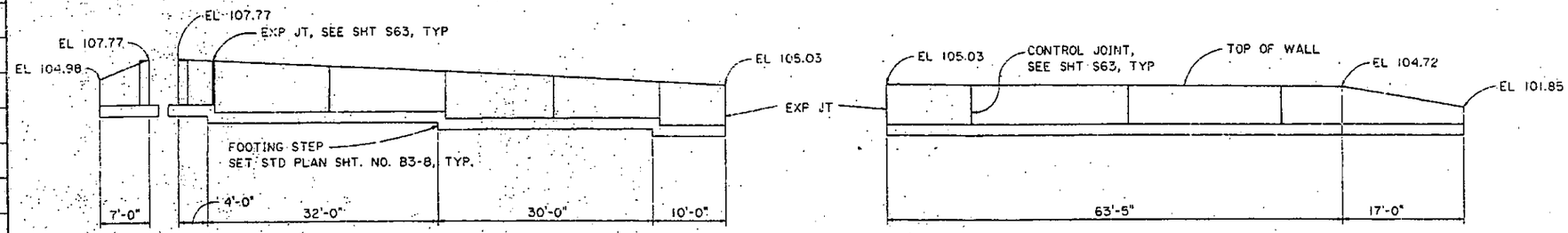
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	0	5.0s	107	164

REGISTERED STRUCTURAL ENGINEER

3-12-90

PLANS APPROVAL DATE

PROFESSIONAL ENGINEER — RUDIE PIETERS — No. S002005 — Exp. 9/30/93 — STRUCTURAL — STATE OF CALIFORNIA



RETAINING WALL (5B)

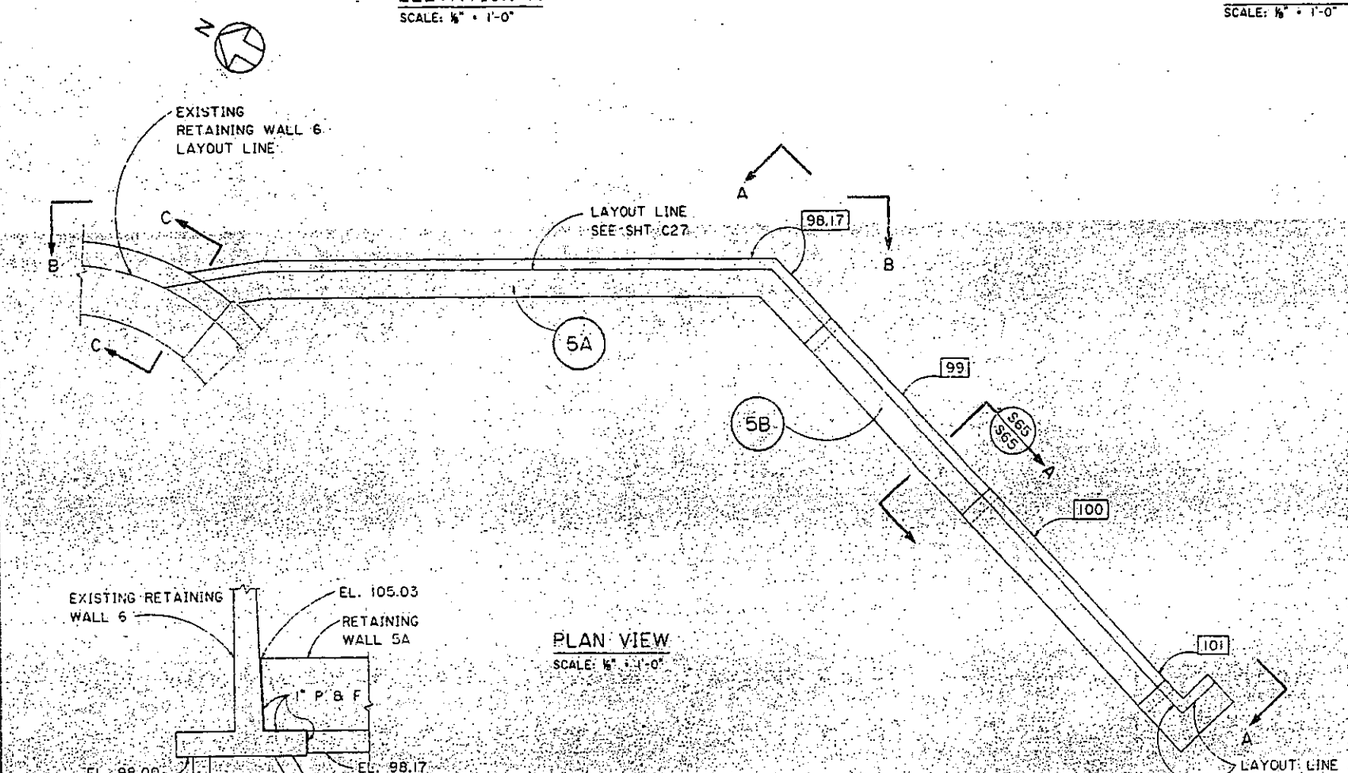
ELEVATION A

SCALE: ⅛" = 1'-0"

RETAINING WALL (5A)

ELEVATION B

SCALE: ⅛" = 1'-0"

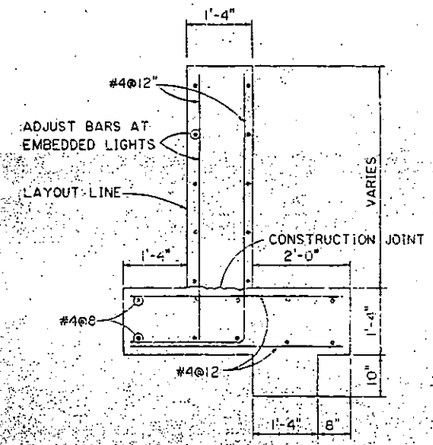


PLAN VIEW

SCALE: ⅛" = 1'-0"

SECTION C

SCALE: ¼" = 1'-0"



SECTION (S65 / S60, S64, S65) A

SCALE: ¾" = 1'-0"

NOTES:

1. FOR EMBEDDED LIGHT LOCATIONS SEE SHEET A3.
2. ▭ DENOTES BOTTOM OF FOOTING ELEVATION.

CALCULATED/DESIGNED BY	DATE	REVISED BY	DATE REVISED
RJ	4/1/88		
CHECKED BY			

PROJECT ENGINEER

STATE OF CALIFORNIA — DEPARTMENT OF TRANSPORTATION

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff — 1333 N. 1st Street, San Jose, CA 95112 — (408) 474-4000

SUBMITTED — APPROVED

ALMA TERMINAL

RETAINING WALLS 5A & 5B

SCALE: AS NOTED

SHEET NO. — REV.: S65

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 04-111 — EA 635200

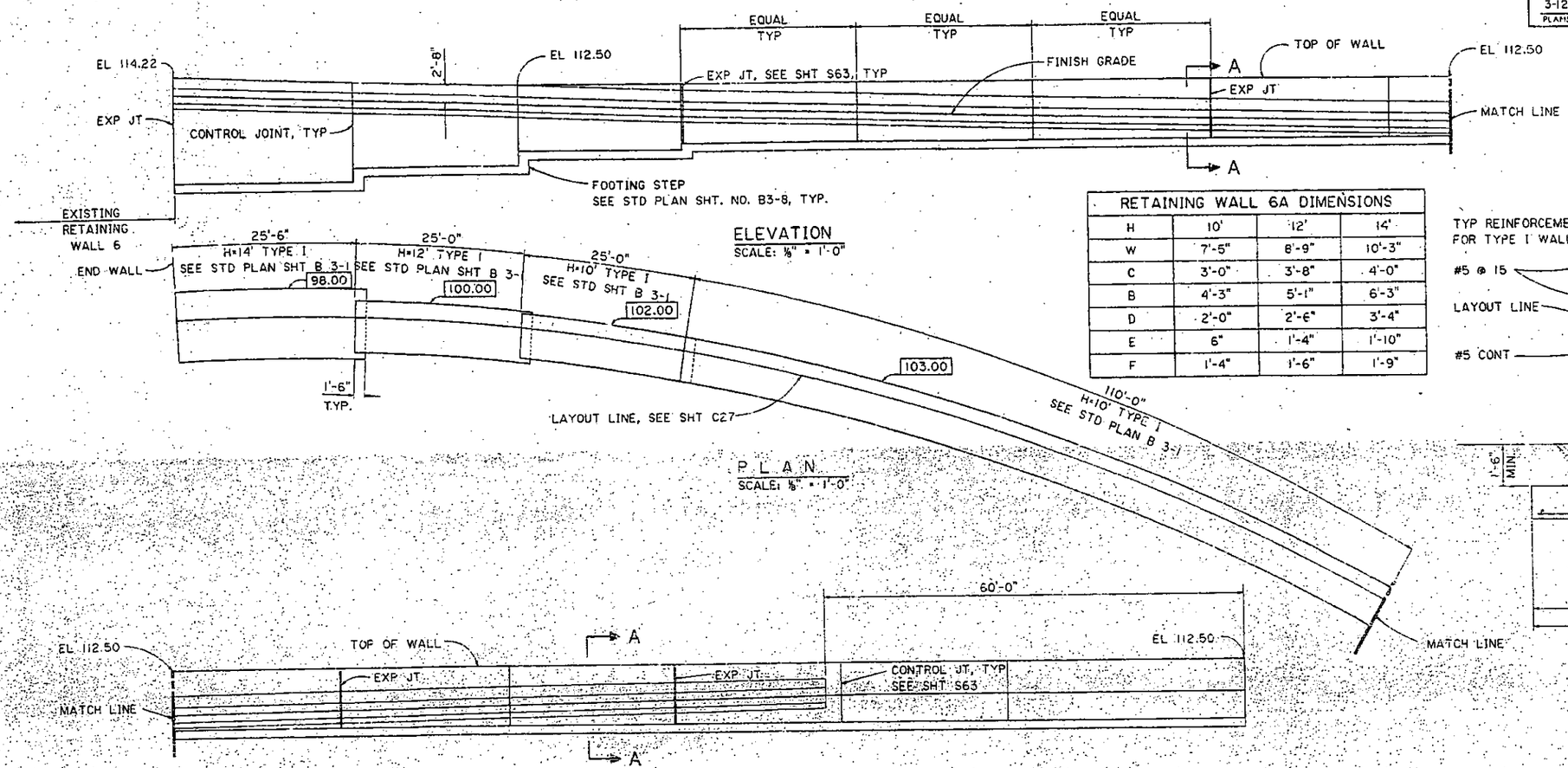
PC_ST_049_10_007

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	0	SJs	108	114

REGISTERED STRUCTURAL ENGINEER

3-12-90
PLANS APPROVAL DATE

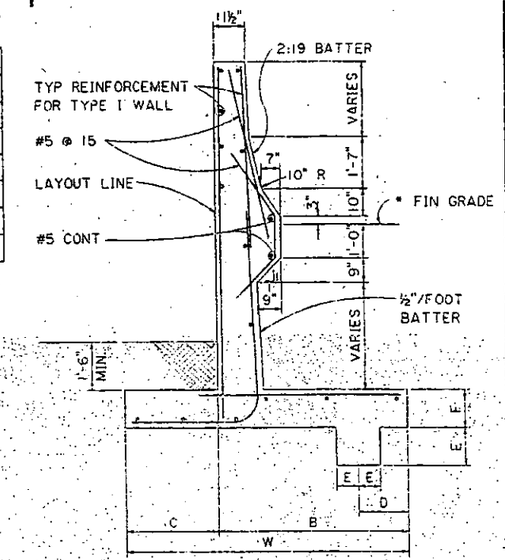
REGISTERED PROFESSIONAL ENGINEER
RUDIE PIETERS
No. S002005
Exp. 9-30-93
STRUCTURAL
STATE OF CALIFORNIA



ELEVATION
SCALE: 1/8" = 1'-0"

P L A N
SCALE: 1/8" = 1'-0"

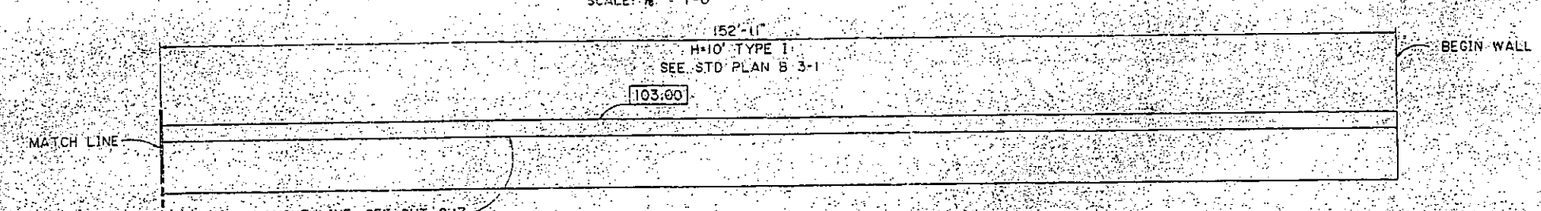
RETAINING WALL 6A DIMENSIONS			
H	10'	12'	14'
W	7'-5"	8'-9"	10'-3"
C	3'-0"	3'-8"	4'-0"
B	4'-3"	5'-1"	6'-3"
D	2'-0"	2'-6"	3'-4"
E	6"	1'-4"	1'-10"
F	1'-4"	1'-6"	1'-9"



SECTION A
SCALE: 1/2" = 1'-0"

* FINISH GRADE ELEVATIONS ALONG WALL SHALL BE PROVIDED BY THE ENGINEER.

ELEVATION
SCALE: 1/8" = 1'-0"



P L A N
SCALE: 1/8" = 1'-0"

NOTES:

1. WEAKENED PLANE OR CONTROL JOINTS AT 25' MAX.
2. EXPANSION JOINTS SHALL BE PLACED AT 75'-0" MAX.
3. RETAINING WALL TYPE I REINFORCING SHALL BE USED FOR WALLS AND FOOTINGS FOR THE DESIGN HEIGHTS INDICATED.
4. [ ] DENOTES BOTTOM OF FOOTING ELEVATION.

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff
1621 Fifth Avenue San Francisco, CA 94109
(415) 474-1500

ALMA TERMINAL
RETAINING WALL 6A

SCALE: AS NOTED
SHEET NO. - REV.: S66

SUBMITTED
APPROVED

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 04 III
EA. 635200

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/DESIGNED BY: RJ DATE 1/90
CHECKED BY: MG DATE 3/90
REVISED BY
DATE REVISED

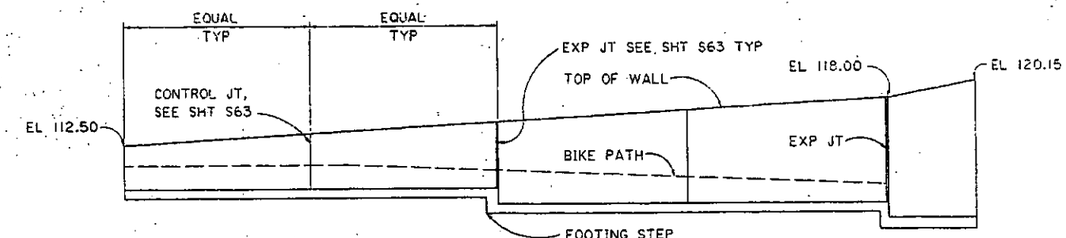
PC-ST-049-10.0108

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	0	SJs	109	164

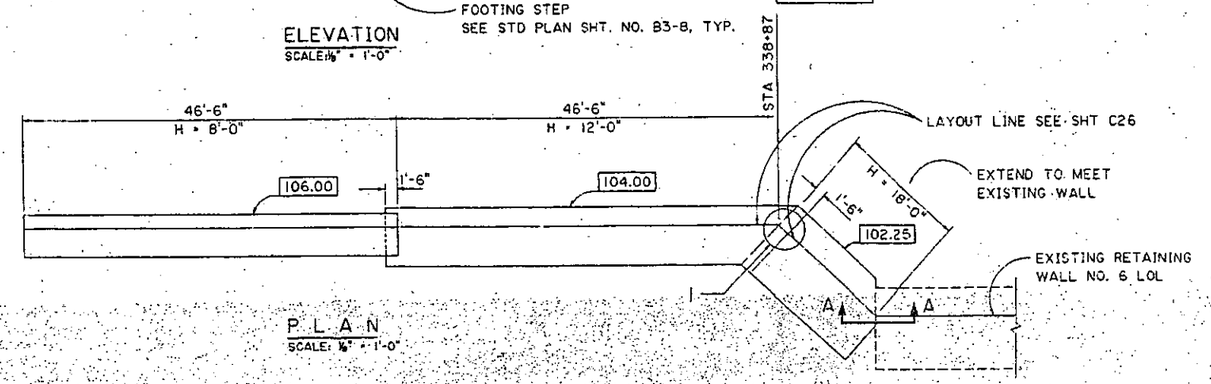
REGISTERED STRUCTURAL ENGINEER

3-12-90
PLANS APPROVAL DATE

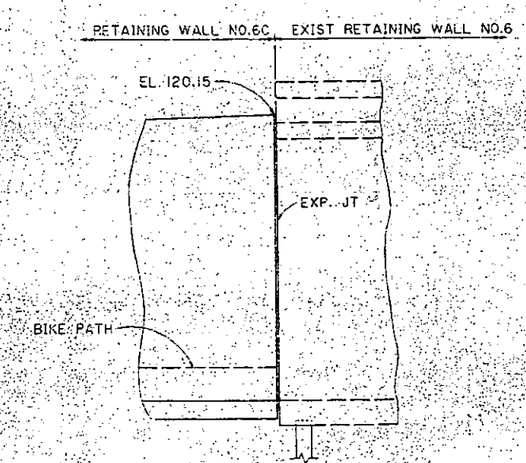
REGISTERED PROFESSIONAL ENGINEER
RUDIE PIETERS
No. S002005
Exp. 9-30-93
STRUCTURAL
STATE OF CALIFORNIA



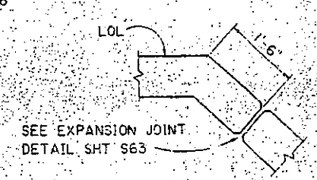
ELEVATION
SCALE: 1/8" = 1'-0"



PLAN
SCALE: 1/8" = 1'-0"



SECTION A
SCALE: 1/4" = 1'-0"



DETAIL 1
SCALE: 3/4" = 1'-0"

NOTES

1. FOR RETAINING WALL 6C DIMENSIONS AND REINFORCING SEE STANDARD PLAN SHT. B3-1.
2. FOR DRAINAGE DETAILS SEE SHT C87.
3. ☐ DENOTES BOTTOM OF FOOTING ELEVATION.

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff
1625 Van Ness Avenue, San Francisco, CA. 94107
(415) 477-4500

ALMA TERMINAL
RETAINING WALL 6C

SCALE: AS NOTED
SHEET NO. - REV.: S67

CU 04 III.
EA 635200

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/DESIGNED BY: TAJ
CHECKED BY: MTG
DATE: 4/11/89
REVISED BY:
DATE REVISED: 01/31/89

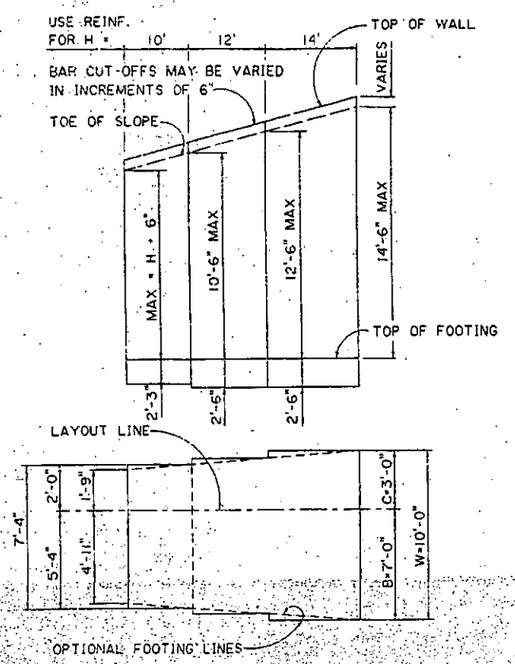
PC_ST_049_10_0109

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	0	SJs	110	184

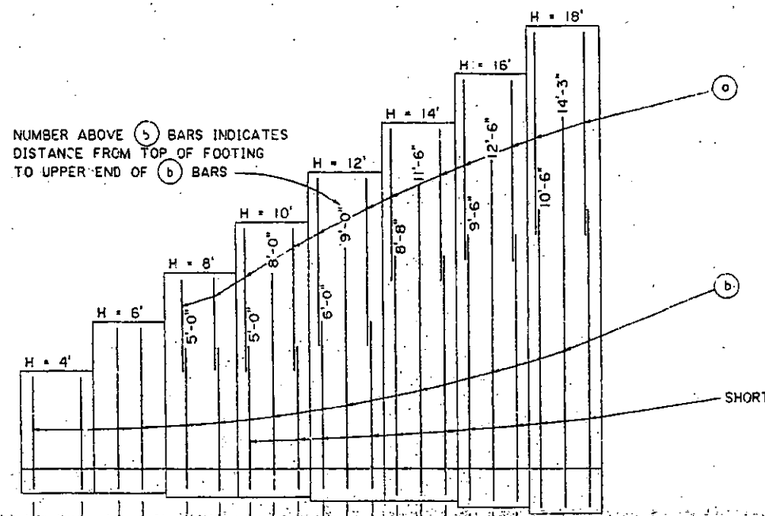
REGISTERED STRUCTURAL ENGINEER

3-12-90
PLANS APPROVAL DATE

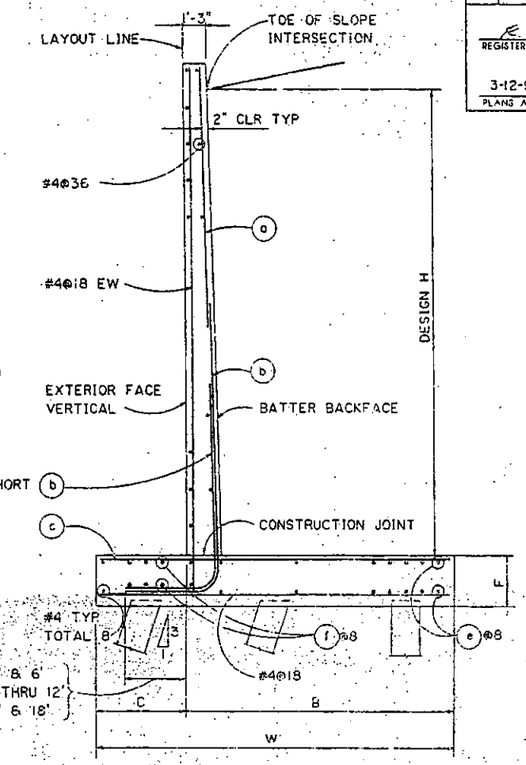
REGISTERED PROFESSIONAL ENGINEER — RUDIS PIETERS No. S002009 Exp. 9-30-93 STRUCTURAL — STATE OF CALIFORNIA



TYPICAL LAYOUT EXAMPLE



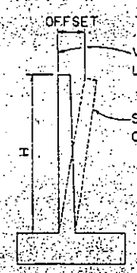
ELEVATION



FOOTING SECTION

TABLE OF REINFORCING STEEL DIMENSIONS AND SIZES

DESIGN H	4'	6'	8'	10'	12'	14'	16'	18'
W	4'-9"	5'-9"	6'-8"	7'-4"	8'-4"	10'-0"	11'-0"	12'-0"
C	1'-0"	1'-6"	1'-9"	2'-0"	2'-9"	3'-0"	3'-6"	3'-6"
B	3'-9"	4'-3"	4'-11"	5'-4"	5'-7"	7'-0"	7'-6"	8'-6"
F	2'-0"	2'-0"	2'-3"	2'-3"	2'-6"	2'-6"	2'-9"	3'-3"
BATTER	1/2 : 12	1/2 : 12	1/2 : 12	1/2 : 12	1/2 : 12	1/2 : 12	1/2 : 12	1/2 : 12
a BARS	-	-	#5@12	#5@14	#5@12	#8@16	#8@14	#8@14
b BARS	#5@18	#5@9	#7@12	#8@7	#9@6	#11@8	#11@7	#11@7
c BARS	#5@18	#5@9	#5@6	#7@7	#7@6	#8@8	#9@7	#8@7
TOTAL e BARS	10-#7	10-#7	10-#7	10-#7	10-#7	10-#7	10-#7	8-#7
TOTAL f BARS				6-#7	6-#7	6-#7	6-#7	4-#7



H (FEET)	OFFSET (INCH)
4	1/4
6	3/8
8	1/2
10	5/8
12	3/4
14	1
16	1-1/4
18	1-1/2
20	1-3/4

WALL OFFSET VALUES

NOTES:

1. DESIGN H MAY BE EXCEEDED BY 6" BEFORE GOING TO THE NEXT SIZE.
2. DESIGN DATA:
   EARTH = 120 pcf
   LL SURCHARGE = 9.5 ft (COOPER E 80)
   SEISMIC = 18x(H+F) psf

REVISED BY	DATE REVISED		
CALCULATED/DESIGNED BY RJ	DATE 4/4/88		
CHECKED BY MTG			

PROJECT ENGINEER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

SAN JOSE MULTIMODAL TRANSPORTATION TERMINAL - STAGE 1 PROJECT

Parsons Brinckerhoff — 1828 Van Ness Avenue, San Francisco, CA 94109 (415) 474-4900

SUBMITTED / APPROVED

ALMA TERMINAL
RETAINING WALLS 3A & 3B
REINFORCING DETAILS

SCALE: NO SCALE
SHEET NO. S68 REV.

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

CU 04 111 EA 635200

PC_ST_049_10_0110