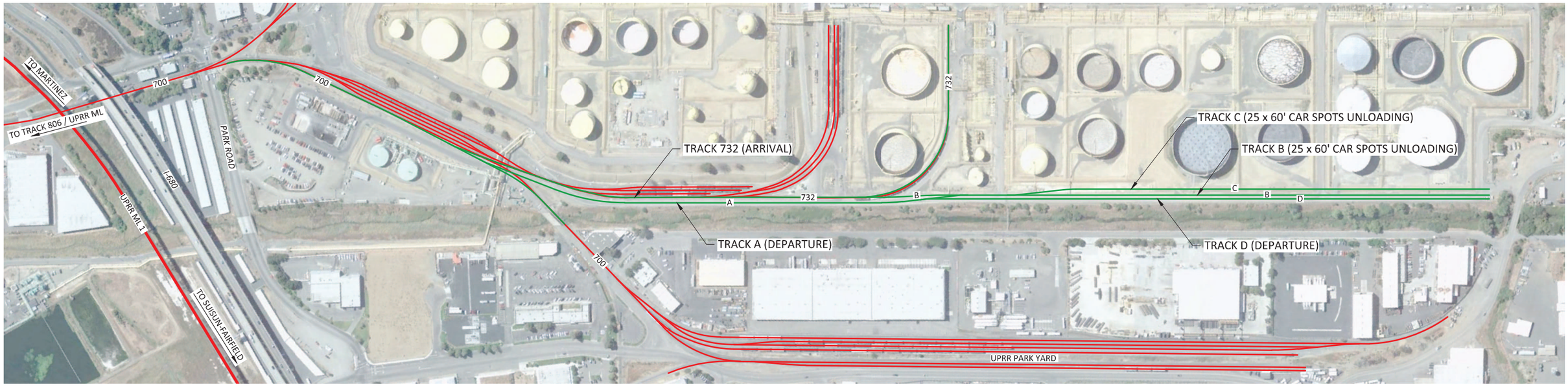


0 REFINERY NORTH 400

SCALE 1" = 400 FEET

TRACK LEGEND

Existing Track
Proposed Track

FOR INFORMATION ONLY NOT FOR CONSTRUCTION

VALERO ENERGY CORPORATION
BENICIA, CA
EXHIBIT 1: RAILROAD TRACK LAYOUT
OCTOBER 25, 2013

RAIL LAYOUT EXHIBIT 2013-10-23.DWG 10/25/13 10:30:06 COPYRIGHT Industrial Railways Company

MATCH LINE SEE DWG. 89412

CRUDE PIPING FROM TANK CAR UNLOADING TO CRUDE TANK FARM

EXIST. NEW

NEW 16" CRUDE PIPING TO CRUDE TANK FARM

4 EA. NEW 2" UTILITY LINES TO PUMP STATION

UTILITY WATER
POTABLE WATER
UTILITY AIR
STEAM

FLUE GAS SCRUBBER

AVENUE "E"

AVENUE "D"

AVENUE "D"

TO CRUDE TANK FARM

EXIST. 20"

NEW 16"

NEW 16"

6th. STREET

7th. STREET

8th. STREET

TRACK 732

ROAD

ROAD

9th. STREET

14th. STREET

1711

1732

1736

1737

1733

1730

1715

1713

1714

1712

1717

2401

1734

1805

1820

1735

1739

1720

1716

1719

1718

PROPERTY LINE

RELOCATED COMPRESSOR FACILITIES

NEW CONTAINMENT WALL 7'-0" HIGH

NEW CONTAINMENT WALL 7'-0" HIGH

CBR-M1 CBR-M2 CBR-M3 CBR-M4 CBR-M5 CBR-M6 CBR-M7 CBR-M8 CBR-M9 CBR-M10 CBR-M11 CBR-M12 CBR-M13

RELOCATED AVE. "A"

RELOCATED AVE. "A"

TRACK C

TRACK B

DEPART

TRACK 732

AVENUE "A"

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PG&E EASMENT 30' WIDE

NEW DEPARTURE TRACK

NEW DEPARTURE TRACK

A 89413

12"CEMENT MORTAR LINED FIREWATER PIPE W/MONITORS AND HYDRANTS. RELOCATED TO RUN ALONG SIDE OF CONTAINMENT WALL

D 89413

CUSTODY TRANSFER FACILITIES

FENCE LINE

SUBSTATION

EXIST 20" CO2 LINE IN 24" CASING

NEW TRACKS

CRUDE UNLOADING PUMP STATION 45'x57'

12" CEMENT MORTAR LINED FIREWATER PIPE W/ RELOCATED MONITOR

50'-0" 625'-0" 875'-0" 170'-0"

MATCH LINE SEE DWG. 89412

500' 400' 200' 0

SCALE

LEGEND:

GROUND WATER MONITORING WELLS

SEWER MANHOLES

NEW ASPHALT

REVISION RECORD					
K	01-08-16	ISSUED FOR PUBLIC	MDA		
REV.	DATE	DESCRIPTION	DWN	CKD	APD.

FOR INFORMATION PHONE:

DSN.	MDA	12-17-12
DWN.	MDA	12-17-12
CKD.		
APD.		
PROJ. ENG.		
STRESS APD.		
STRESS MODEL #		
MOC#		DATE SOC APD.
WO#	3588093	
T/A#		

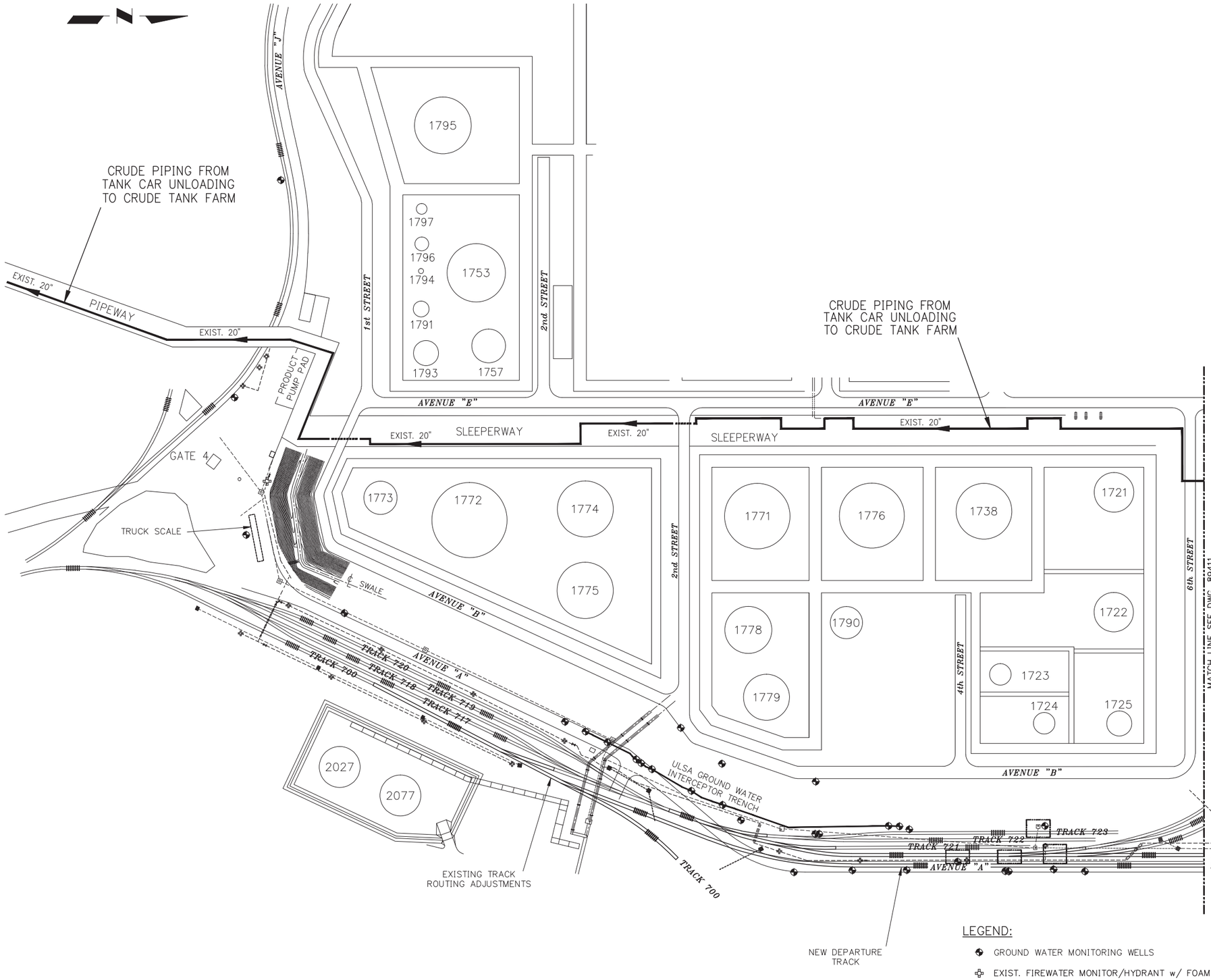
VALERO REFINING COMPANY-CALIFORNIA
BENICIA REFINERY

OIL MOVEMENTS LOWER TANK FIELD — UNIT 32 PLOT PLANS

MECHANICAL SCOPE OF WORK
RAIL CAR UNLOADING

SCALE	E.J.N. NO.	DRAWING NO.	REVISION
AS SHOWN		32-000-04D-89411	K
DATE 01-12-13			

(135)



REVISION RECORD					
G	01-08-16	ISSUE FOR PUBLIC	MDA		
REV.	DATE	DESCRIPTION	DWN	CKD	APD. / APD

FOR INFORMATION PHONE:

DSN.	MDA	01-11-13
DWN.	MDA	01-11-13
CKD.		
APD.		
PROJ. ENG.		
STRESS APD.		
STRESS MODEL #		
MOC#		DATE SOC APD.
WO#	3588093	
T/A#		

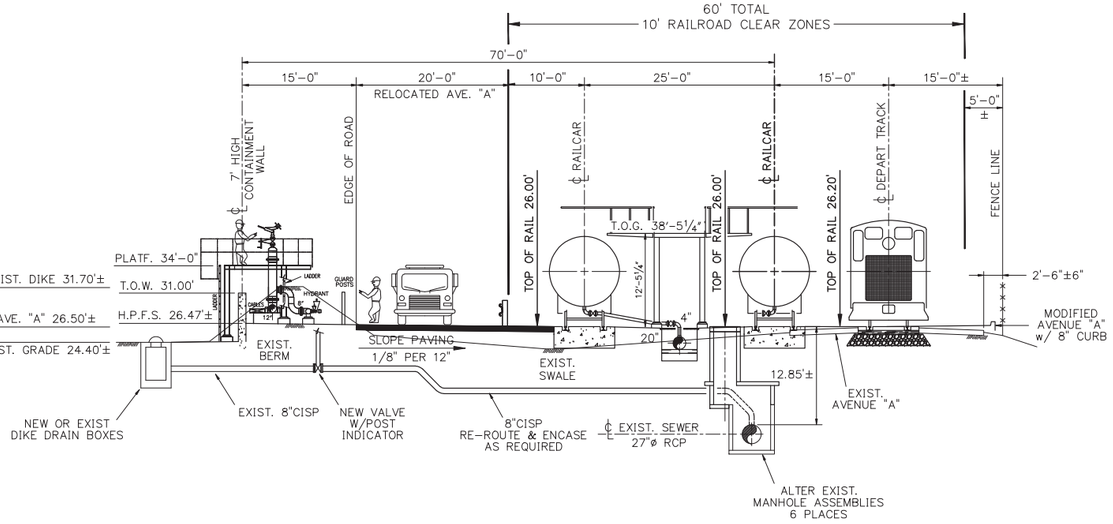
VALERO REFINING COMPANY–CALIFORNIA
BENICIA REFINERY

OIL MOVEMENTS

CRUDE BY RAIL OSBL
MECHANICAL SCOPE OF WORK
SOUTH AVENUE "A" TO GATE 4

UNIT 32

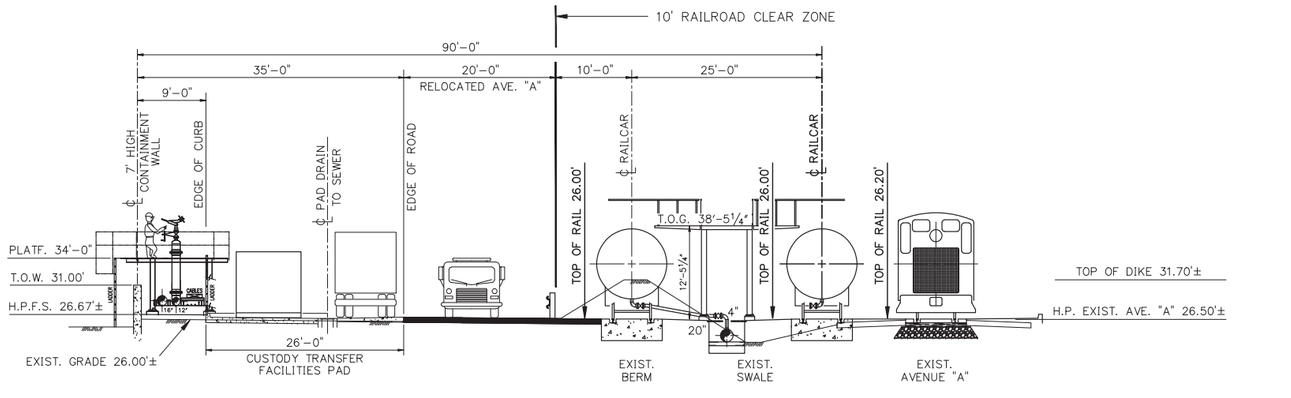
SCALE	E.J.N. NO.	DRAWING NO.	REVISION
AS SHOWN		32-000-04D-89412	G
DATE 01-12-13			



SECTION A–A

50' 40' 20' 0

SCALE



SECTION D–D

50' 40' 20' 0

SCALE

REVISION RECORD					
L	01-08-16	ISSUED FOR PUBLIC	MDA		
REV.	DATE	DESCRIPTION	DWN	CKD	APD

FOR INFORMATION PHONE:

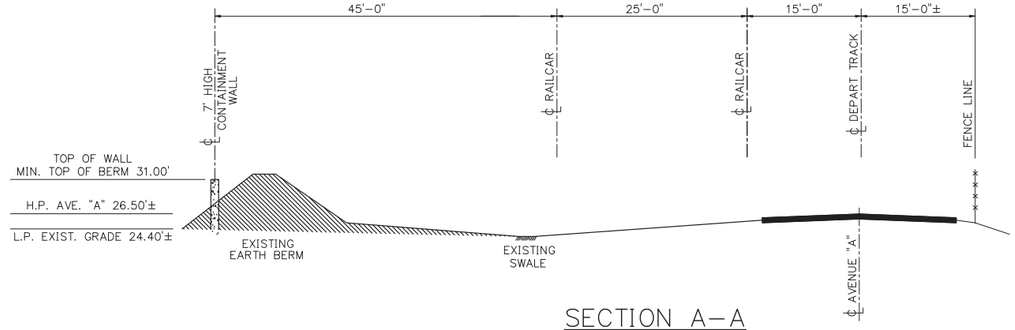
DSN.	MDA	12-17-12
DWN.	MDA	12-17-12
CKD.		
APD.		
PROJ. ENG.		
STRESS APD.		
STRESS MODEL #		
		DATE SOC APD.
MOC#		
WO#	3588093	
T/A#		

VALERO REFINING COMPANY–CALIFORNIA
BENICIA REFINERY

OIL MOVEMENTS
LOWER TANK FIELD
MECHANICAL SCOPE OF WORK - SECTIONS & DETAILS
RAIL CAR UNLOADING

CRUDE BY RAIL — UNIT 32 — PLOT PLANS

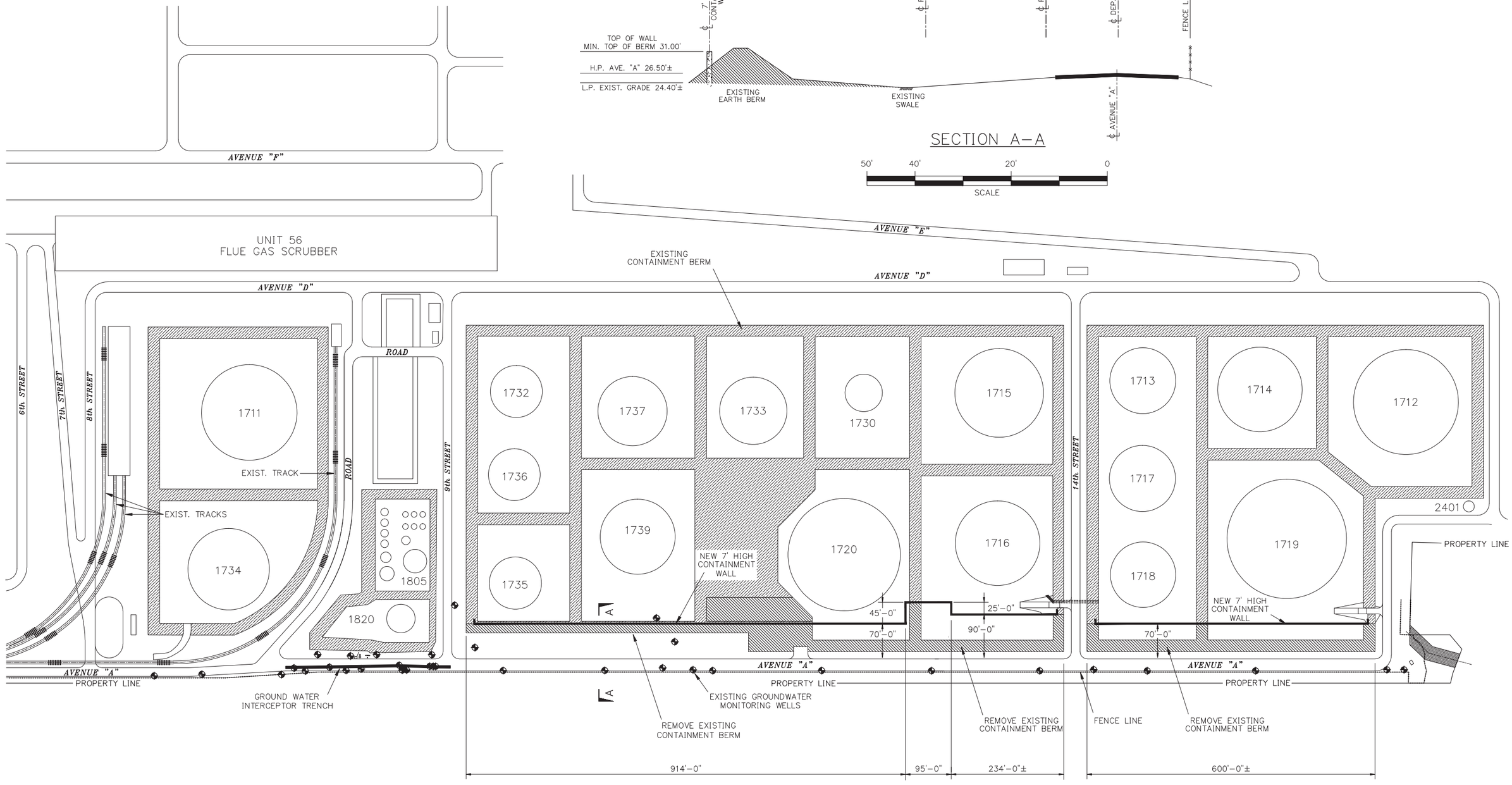
SCALE	E.J.N. NO.	DRAWING NO.	REVISION
AS SHOWN		32-000-04D-89413	L
DATE 01-14-13			



SECTION A–A

50' 40' 20' 0

SCALE



500' 400' 200' 0

SCALE

LEGEND:

- GROUND WATER MONITORING WELLS
- EXISTING CONTAINMENT BERMS
- EXISTING BERM TO BE REMOVED

FOR INFORMATION PHONE:

DSN.	MDA	01–07–13
DWN.	MDA	01–07–13
CKD.		
APD.		
PROJ. ENG.		
STRESS APD.		
STRESS MODEL #		DATE SOC APD.
MOC#		
WO#	3588093	
T/A#		

VALERO REFINING COMPANY–CALIFORNIA
BENICIA REFINERY

OIL MOVEMENTS
LOWER TANK FIELD
EXIST. PLOT PLAN – GROUND WATER & CONTAIN. BERMS
RAIL CAR UNLOADING

CRUDE BY RAIL — UNIT 32 PLOT PLANS

SCALE	E.J.N. NO.	DRAWING NO.	REVISION
AS SHOWN		32-000-04D-89416	J
DATE 01-14-13			

REVISION RECORD

REV.	DATE	DESCRIPTION	DWN	CKD	APD
J	01-08-16	ISSUED FOR PUBLIC	MDA		

DWG NO.	REFERENCE
SKD-2	CRUDE BY RAILCAR OVERALL LIGHTING DETAILS

FLUE GAS SCRUBBER

AVENUE "D"

AVENUE "D"

ROAD

ROAD

9th STREET

14th STREET

1711

1734

1820

1805

1732

1736

1735

1737

1739

1733

1730

1720

1715

1716

1713

1714

1712

1717

1718

1719

MONITOR STATIONS
SEE SECTION 'A-A' ON DWG. SKD-2

NEW CONTAINMENT WALL

A

B

RELOCATED AVENUE "A"

RELOCATED AVENUE "A"

TRACK C

TRACK B

DEPART

PROPERTY LINE

PROPERTY LINE

A

RAILCAR UNLOADING SECTION (TYP. FOR 25)
SEE DETAIL #1 AND SECTION 'A-A' ON DWG. SKD-2

B

CRUDE UNLOADING PUMP PAD AREA
SEE DETAIL #2 ON DWG. SKD-2

RAILCAR UNLOADING ROAD CROSSING
SEE SECTION 'B-B' ON DWG. SKD-2

FENCE LINE

ROAD
SLOPES

HPFS ROAD
EL. 21.5'

HPFS ROAD
EL. 26.5'

625'-0"

875'-0"

170'-0"

PLAN

SCALE: 1" = 75'-0"

DETAILS SHOWN ON SKD-2

500' 400' 200' 0

SCALE

LEGEND:

REV.	DATE	DESCRIPTION	DSN.	CKD.	APD.
D	12/31/15	ISSUED FOR PUBLIC	SAR		MSD
C	3/13/13	MODIFIED SECTION 'A-A', 'B-B' AND DETAIL #1 ON SKD-2 SHOWING REPLACEMENT OF FLUORESCENT TYPE LIGHT FIXTURES WITH FLOODLIGHT TYPE.	SAR		MSD
B	1/30/13	MODIFIED LIGHTING PLAN	SAR		MSD
A	1/4/13	CONCEPTUAL DRAWING	SAR		MSD

DSN.	SAR	1/4/13	FOR INFORMATION - PHONE
DWN.	SAR	1/4/13	
CKD.			
APD.			
APD.			

AR/WR
PS
DDR
DBASE

SGN

LIGHTING PLAN SKD-1 REV D.DWG
160107.1138
SAR

VALERO REFINING COMPANY-CALIFORNIA
BENICIA REFINERY

TANKAGE

UNIT 32
ELECTRICAL

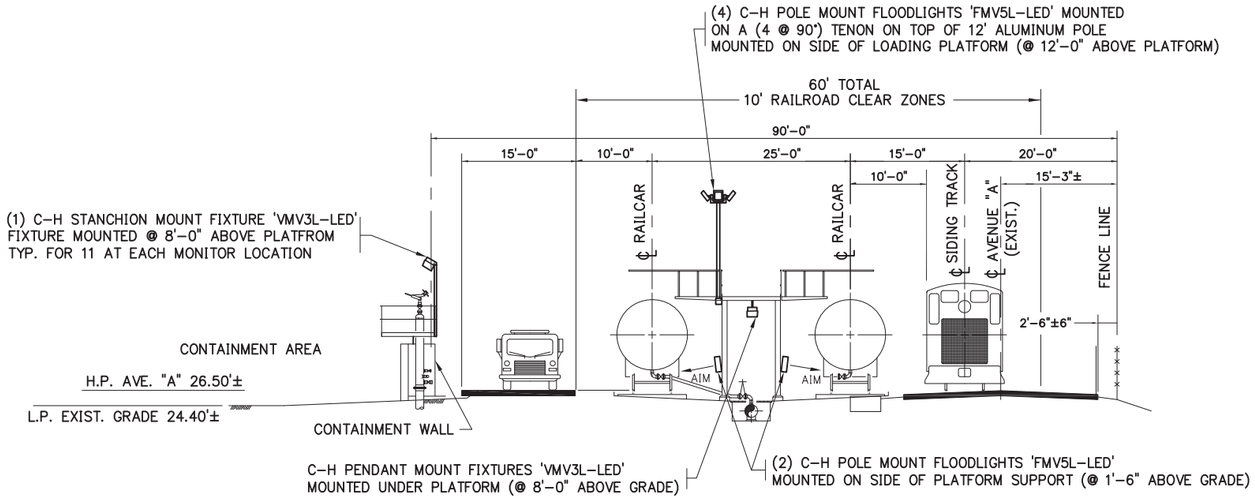
CRUDE BY RAILCAR

OVERALL LIGHTING

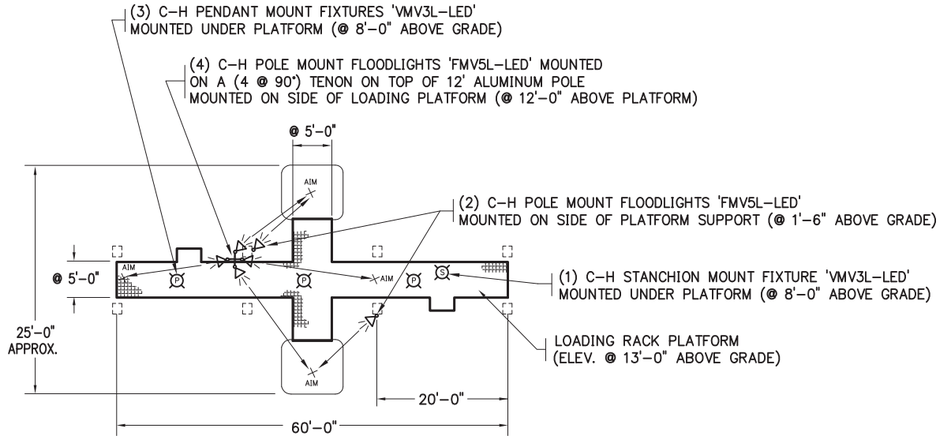
PLAN

SCALE	DRAWING NO.	REVISION
1" = 75'-0"	SKD-1	D
DATE 12/11/12		

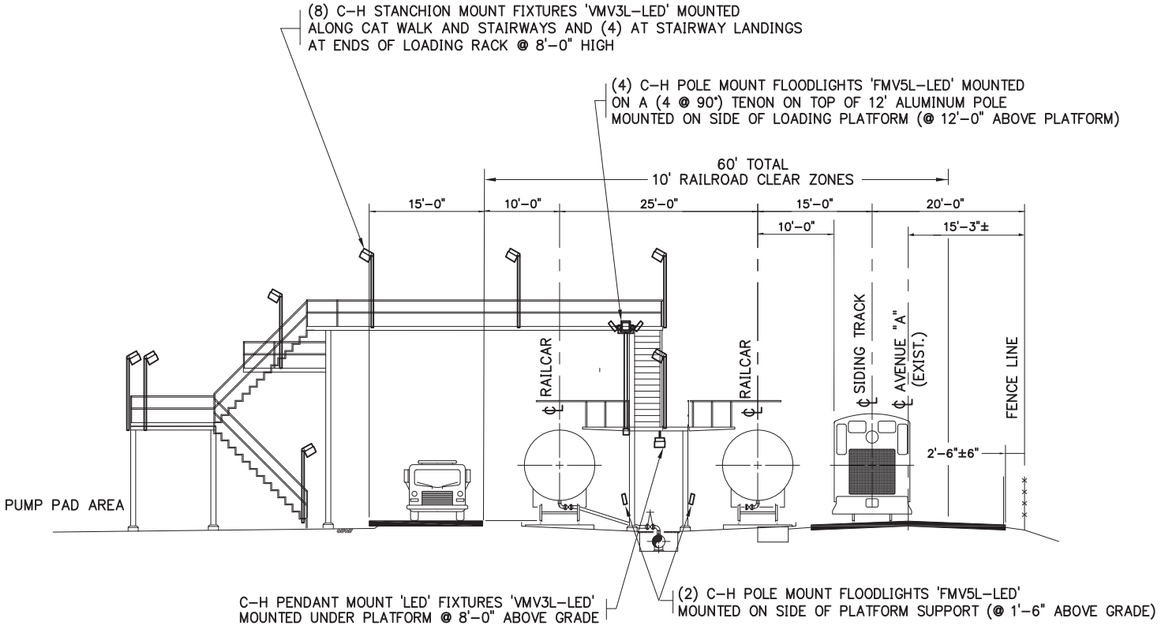
DWG NO.	REFERENCE
SKD-1	CRUDE BY RAILCAR OVERALL LIGHTING PLAN



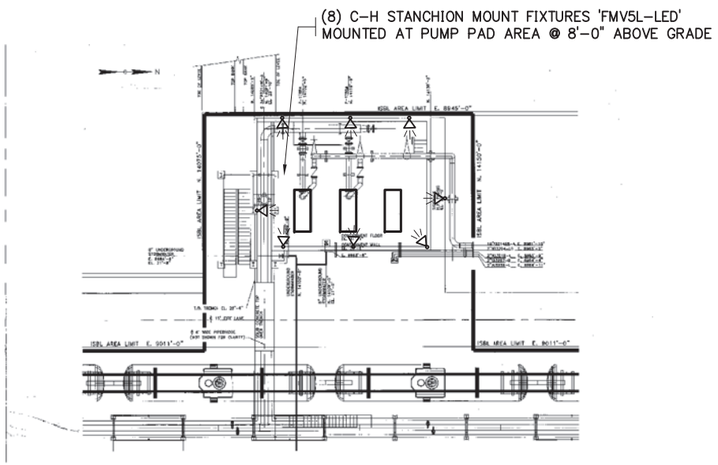
SECTION A-A
(NOT TO SCALE)



DETAIL 1
(NOT TO SCALE)
(TYP. FOR 25)



SECTION B-B
(NOT TO SCALE)



DETAIL 2
(NOT TO SCALE)

REV.	DATE	DESCRIPTION	DSN.	CKD.	APD.
D	12/31/15	ISSUED FOR PUBLIC	SAR		MSD
C	3/13/13	REPLACED FLUORESCENT WITH FLOODLIGHT FOR RAILCAR UNLOADING POINT ILLUMINATION	SAR		MSD
B	1/30/13	MODIFIED LIGHTING PLAN	SAR		MSD
A	1/4/13	CONCEPTUAL DRAWING	SAR		MSD

			FOR INFORMATION - PHONE	
DSN.	SAR	1/4/13		AR/MR
DWN.	SAR	1/4/13		PS
CKD.				DDR
APD.				
APD.				DBASE

VALERO REFINING COMPANY-CALIFORNIA
BENICIA REFINERY

TANKAGE — UNIT 32 ELECTRICAL

CRUDE BY RAILCAR
OVERALL LIGHTING
DETAILS

SCALE	AS NOTED	DRAWING NO.	REVISION
DATE	12/11/12	SKD-2	D

LIGHTING PLAN SKD-2 REV D.DWG 160107.1139 SAR SGN