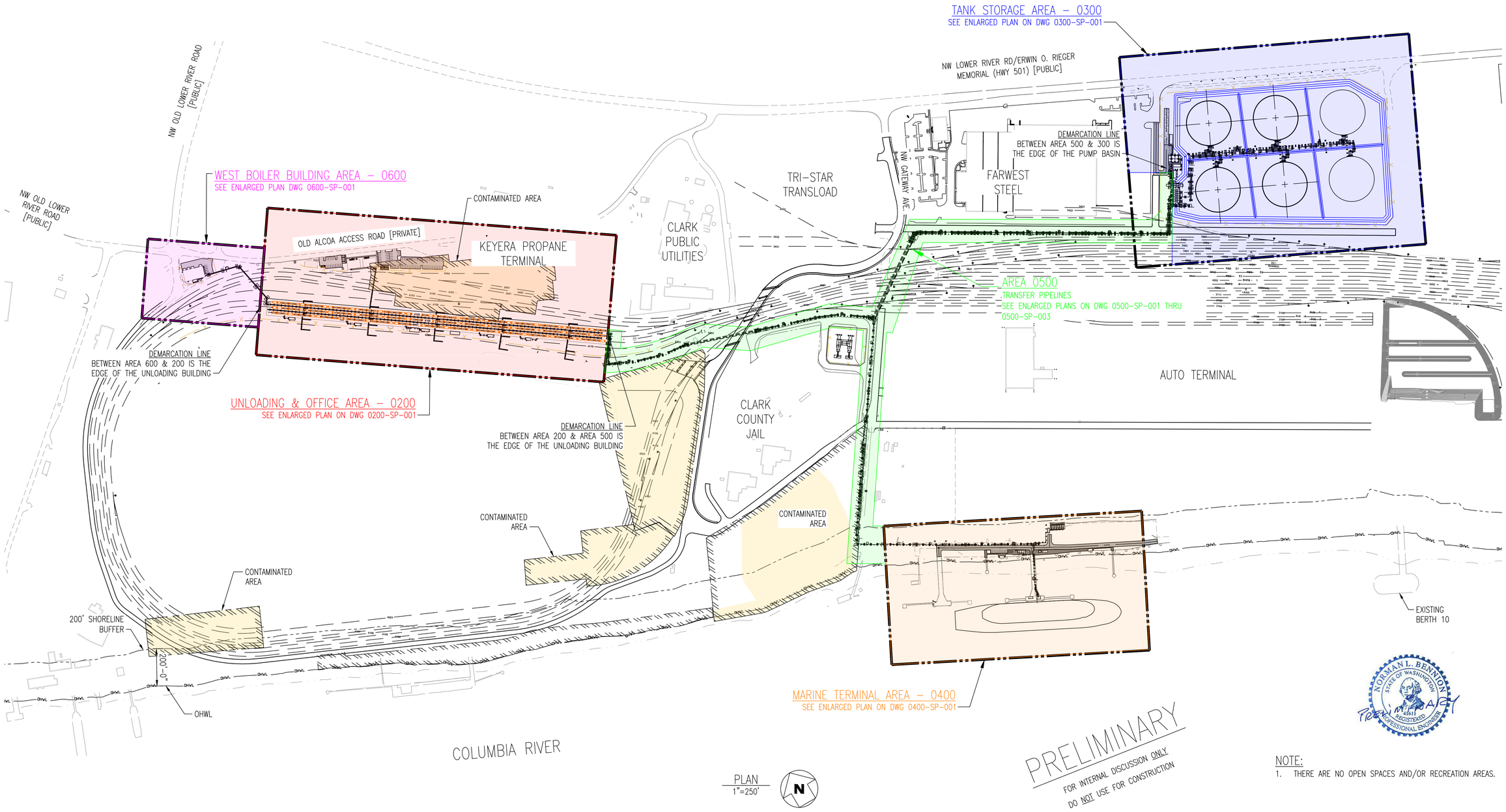
Operations Stormwater Pollution Prevention Plan

Vancouver Energy Terminal
EFSEC Application for Site Certification No. 2013-01
Docket No. EF131590

Appendix A
Site and Civil Drawings



PLAN
1"=250'

N

PRELIMINARY

FOR INTERNAL DISCUSSION ONLY

DO NOT USE FOR CONSTRUCTION

NORMAN L. BENNION — STATE OF WASHINGTON — 41611 — REGISTERED PROFESSIONAL ENGINEER

NOTE:

1. THERE ARE NO OPEN SPACES AND/OR RECREATION AREAS.

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

R&M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801)263-3419
13014

TESORO SAVAGE

THIS DRAWING CONTAINS PROPRIETARY AND PRIVILEGED INFORMATION OF TESORO SAVAGE PETROLEUM LLC AND SHALL NOT BE DISCLOSED OR USED FOR THE BENEFIT OF OTHERS WITHOUT PRIOR WRITTEN PERMISSION OF THE DRAWING OWNER.

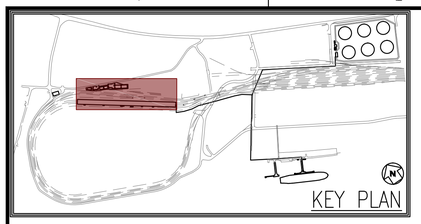
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

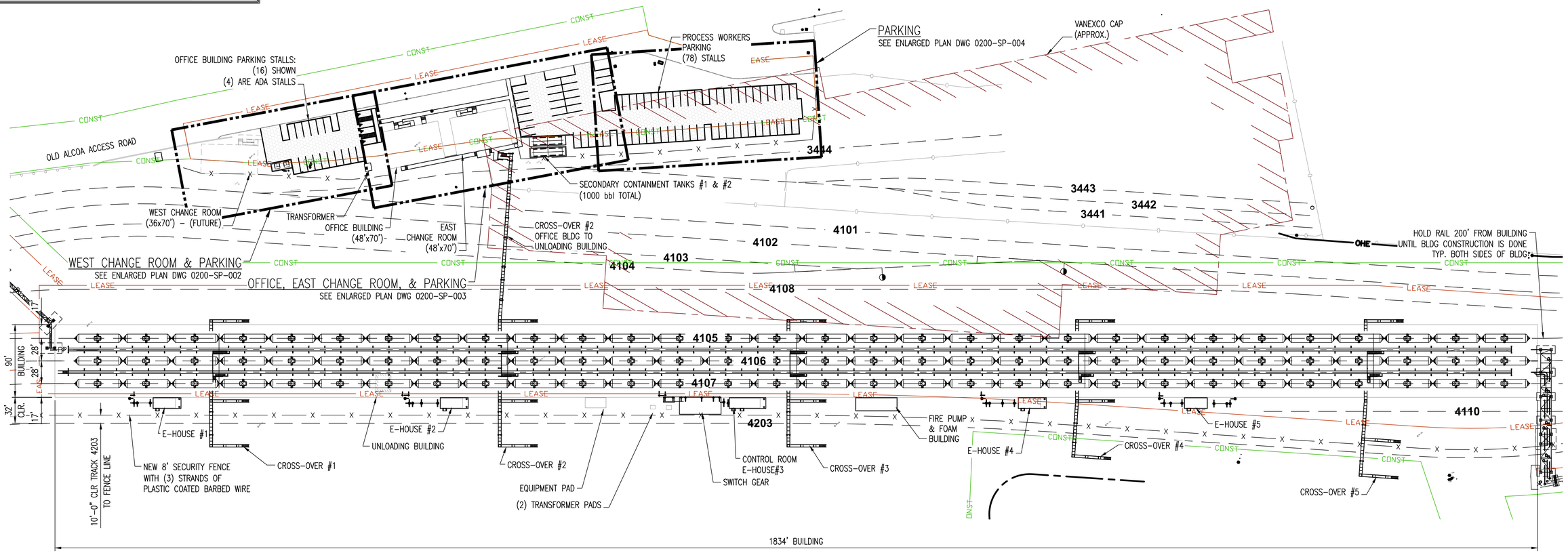
PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: OVERALL SITE PLAN

DESIGN:		START DATE:	05-06-13	SCALE:	1"=250'
DRAWN:	JBH	PRINT DATE:		PROJECT MANAGER:	DC
CHECKED:		APPROVED:		SIAAE:	24x36

DRAWING NUMBER	SHEET	REV.
0100-SP-001	1/1	HH





UNLOADING AREA – PLAN VIEW

1"=60'

N

NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. SEE DWG 0200-FD-001 BLDG FOUNDATIONS.

NORMAN L. BENNION STATE OF WASHINGTON 16611 REGISTERED PROFESSIONAL ENGINEER

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NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

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SALT LAKE CITY, UTAH
(801)263-3419
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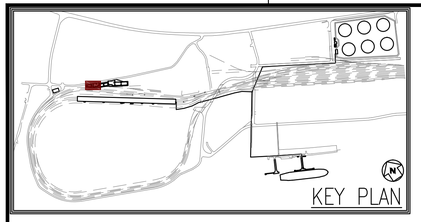
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

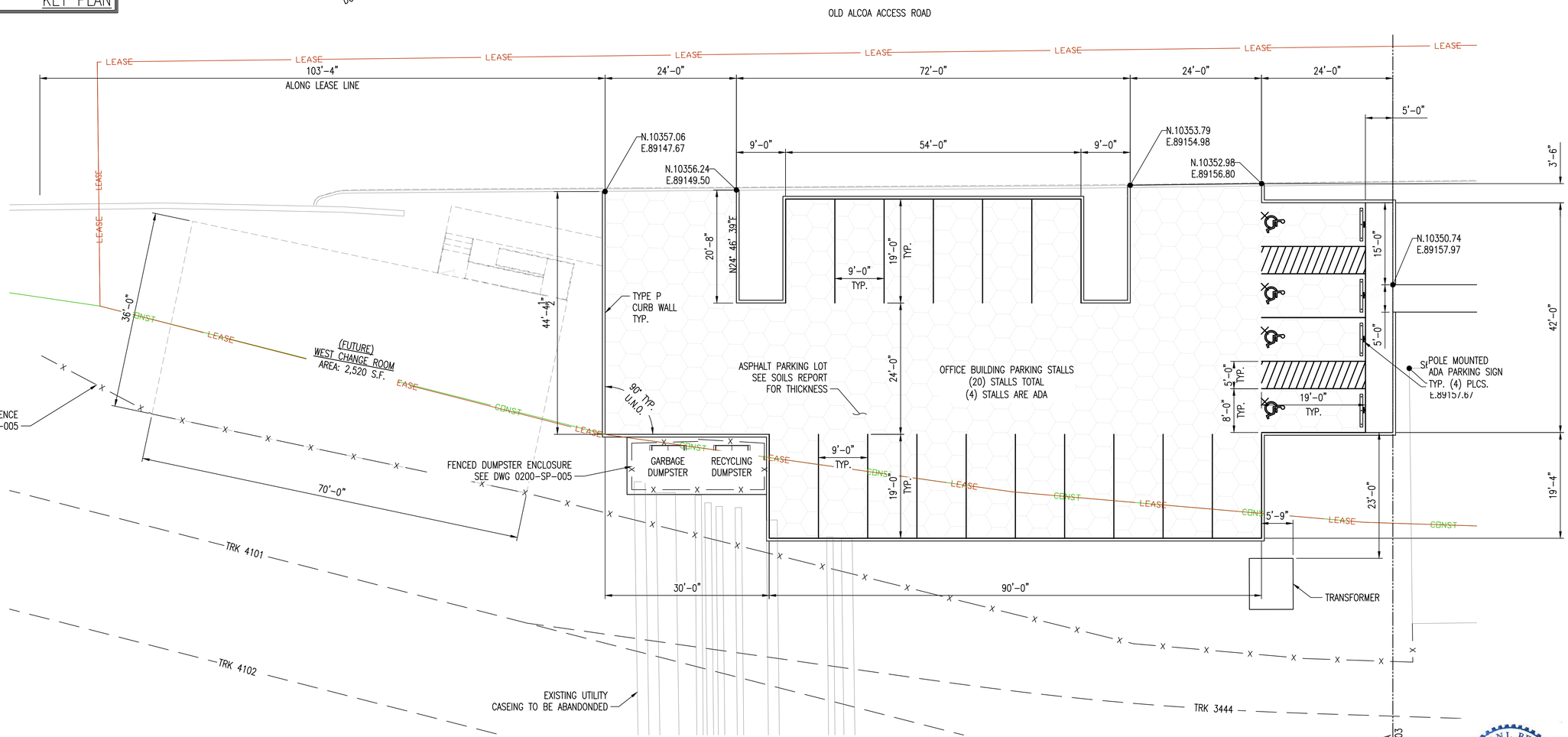
PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0200 UNLOADING AND OFFICE BLDGS
ENLARGED PLAN VIEW

DESIGN:		START DATE: 05-06-13		SCALE: AS SHOWN	
DRAWN: JBH		PRINT DATE:		PROJECT MANAGER: DC	
CHECKED:		APPROVED:		SIAE: 24x36	
DRAWING NUMBER				SHEET	REV.
0200-SP-001				1/1	HH



PRELIMINARY
FOR INTERNAL DISCUSSION ONLY
DO NOT USE FOR CONSTRUCTION



Know what's below. Call before you dig.

NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. SIDEWALK AND CURB WALL DETAILS SEE DWG 0200-SP-010.
4. FOR GRADING AND DRAINAGE SEE DWG 0200-CD-002 & 0200-CD-003.

36'x70' CHANGE ROOM AND OFFICE PARKING – PLAN VIEW
1"=10'

NORMAN L. BENNION
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

R&M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801)263-3419
13014

TESORO SAVAGE

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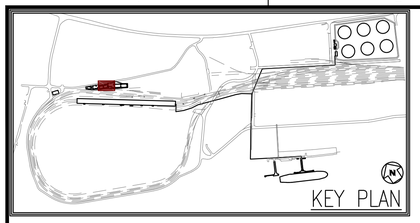
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0200 FUTURE BLDG & WEST PARKING LOT

DESIGN:		START DATE:	06-18-13	SCALE:	AS SHOWN
DRAWN:	MWD	PRINT DATE:		PROJECT MANAGER:	DC
CHECKED:		APPROVED:		SIAAE:	24x36
DRAWING NUMBER				SHEET	REV.
0200-SP-002				1/1	HH

13014 SITE PLAN 11-05-14



213'-2"

OLD ALCOA ACCESS ROAD

5'-0"

19'-0"

N.10345.73
E.89173.02

24'-0"
DRIVEWAY

38'-0"

24'-0"
DRIVEWAY

19'-0"

N.10344.91
E.89174.85

N.10342.80
E.89179.57

ADA PARKING &
ACCESS RAMP

N.10350.74
E.89157.97

15'-0"

5'-0"

11'-2"

23'-4"

5'-2"

52'-11"

11'-2"

42'-6"

20'-9½"

N24° 46' 39"E

10'-11¾" ±

11'-5¼"

90° TYP.
U.N.O.

TYPE P
CURB WALL
TYP.

11'-8¾"

12'-0¼"

27'-0"

19'-0"
TYP.

9'-0"
TYP.

63'-0"

45'-0"

PROCESS WORKERS PARKING
(73) STALLS TOTAL
(25) STALLS SHOWN THIS DWG

70'-0" BLDG

15'-0"

70'-0" BLDG

S65° 55' 02"E

N.10349.48
E.89157.67

ADA RAMP

S65° 55' 02"E

N.10346.59
E.89164.13

ADA RAMP

EAST CHANGE ROOM
AREA: 3,360 S.F.
FF ELEV. = 40.20'

54'-11¾"

46'-8" BLDG

OFFICE BUILDING
AREA: 3,360 S.F.
FF ELEV. = 40.20'

N.10340.79
E.89169.00

65'-2"

ASPHALT PARKING LOT
SEE SOILS REPORT
FOR THICKNESS

N.10338.06
E.89177.38

23'-8¾"

97.1°

90°

16'-6½"

24'-0"

EDGE OF
VANEXCO CAP

SECURITY FENCE
SEE DWG 0200-SP-005

EMPLOYEE
TURNSTILE

26'-10 11/16"

6'-7⅝"

S57° 13' 13"E

90.9°

9'-0"
TYP.

19'-0"
TYP.

21'-11"

84'-8"

21'-6"

5'-0"

5'-0"

5'-0"

S65° 55' 02"E

FIELD ROUTE SIDEWALK TO MATCH
UP WITH STAIR LANDING PAD

RRS

SECONDARY
CONTAINMENT TANK
TYP. (2) PLCS.

45'-0"

9'-0"

10'-10½" ±

TYPE P
CURB WALL
TYP.

TRK 3444

CROSS-OVER #1
OFFICE BLDG TO UNLOADING BLDG

SECURITY FENCE
SEE DWG 0200-SP-005

TRK 3442

MATCH LINE 0200 A-A
SEE DWG 0200-SP-002

MATCH LINE 0200 B-B
SEE DWG 0200-SP-004

NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. SIDEWALK AND CURB WALL DETAILS SEE DWG 0200-SP-010.
4. FOR GRADING AND DRAINAGE SEE DWG 0200-CD-002 & 0200-CD-003.

Know what's below.
Call before you dig.

OFFICE, CHANGE ROOM, AND PARKING – PLAN VIEW
1"=10'

PRELIMINARY
FOR INTERNAL DISCUSSION ONLY
DO NOT USE FOR CONSTRUCTION

NORMAN L. BENNION
STATE OF WASHINGTON
21681
REGISTERED
PROFESSIONAL ENGINEER

1"=10'
0 5' 10' 20' 30' 40'

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

R&M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801)263-3419
13014

TESORO SAVAGE

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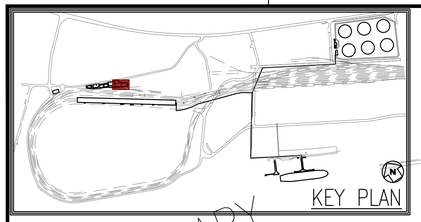
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0200 OFFICE BLDG
SITE PLAN

DESIGN:	START DATE: 06-18-13	SCALE:	AS SHOWN
DRAWN: MWD	PRINT DATE:	PROJECT MANAGER:	DC
CHECKED:	APPROVED:	SIAE:	24x36

DRAWING NUMBER	SHEET	REV.
0200-SP-003	1/1	HH



PRELIMINARY

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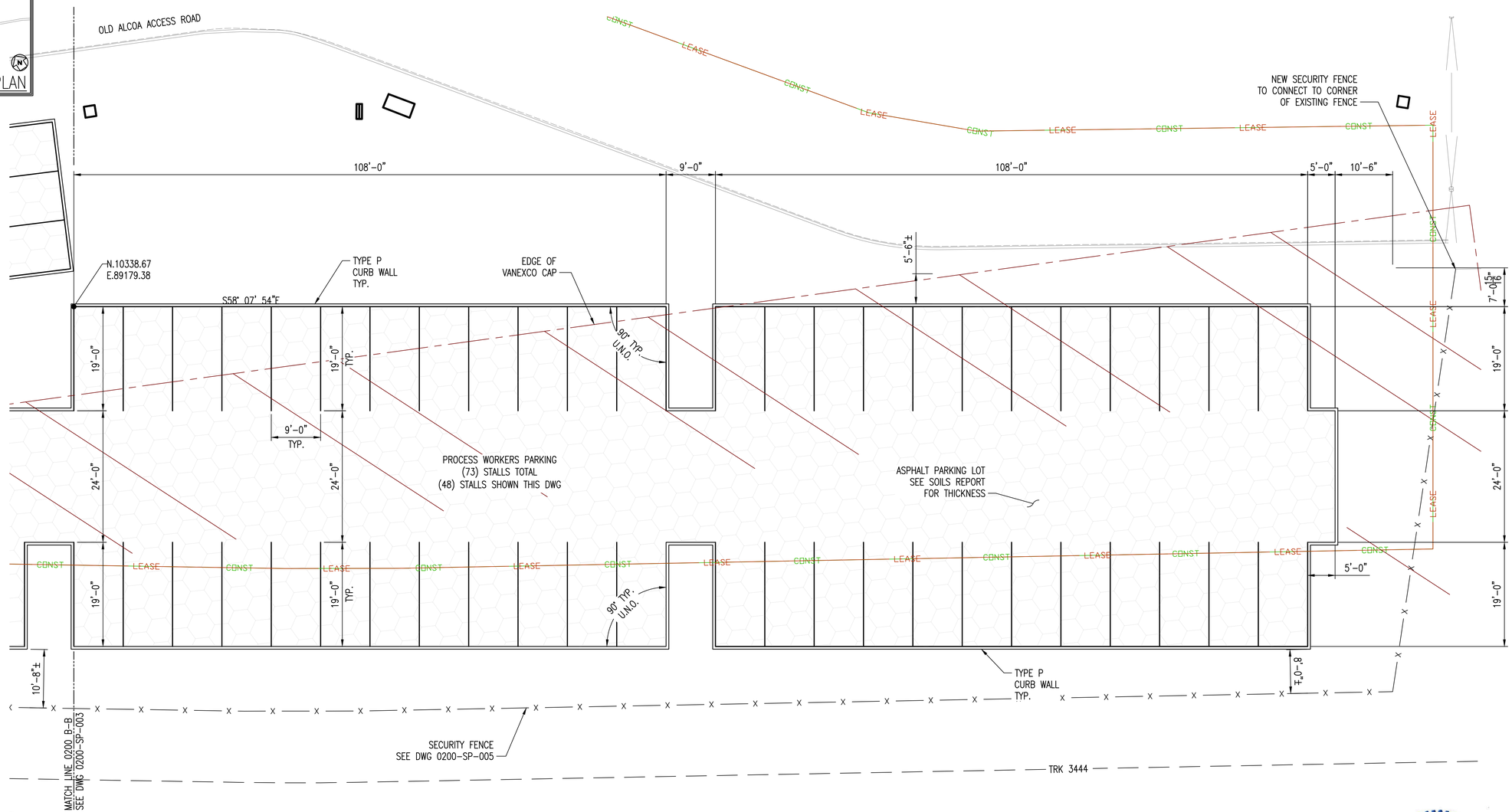
NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. SIDEWALK AND CURB WALL DETAILS SEE DWG 0200-SP-010.
4. FOR GRADING AND DRAINAGE SEE DWG 0200-CD-002 & 0200-CD-003.



PROCESS WORKERS PARKING – PLAN VIEW
1"=10'

1"=10' 0 5' 10' 20' 30' 40'

Know what's below. Call before you dig.

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

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CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

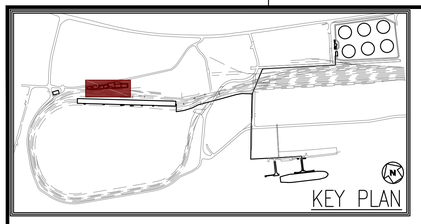
PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0200 OFFICE BLDG
EAST PARKING LOT

DESIGN:	START DATE: 06-18-13	SCALE:	AS SHOWN
DRAWN: MWD	PRINT DATE:	PROJECT MANAGER:	DC
CHECKED:	APPROVED:	SIAAE:	24x36

DRAWING NUMBER	SHEET	REV.
0200-SP-004	1/1	HH

NORMAN L. BENNION — STATE OF WASHINGTON — 41611 — REGISTERED PROFESSIONAL ENGINEER



PRELIMINARY

FOR INTERNAL DISCUSSION ONLY

DO NOT USE FOR CONSTRUCTION

CONNECT NEW SECURITY FENCE TO EXISTING FENCE AT LEASE LINE

N.10358.38 E.89138.83

N.10356.87 E.89139.99

N.10352.76 E.89146.14

(2) 12' SWING GATES

N.10353.41 E.89146.44

N.10352.56 E.89148.27

N.10351.92 E.89147.97

N.10353.39 E.89144.66

265± OF NEW SECURITY FENCE TO FOLLOW EDGE OF RAIL INSPECTION ROAD

42'± OF NEW 6' FENCE w/ SLATS TO PROVIDE A DUMPSTER ENCLOSURE

EXISTING UNDER RAIL PIPE SLEEVES TO BE ABANDONED

FENCE TO CONTINUE TO CORNER OF BUILD TYP.

7'-0"

15' OF NEW SECURITY FENCE BETWEEN CORNERS OF BLDGS

N.10347.43 E.89152.09

NEW SECURITY FENCE TO FOLLOW LEASE LINE FROM THIS POINT EAST

N.10345.39 E.89155.84

NEW SECURITY FENCE TO TURN & PROCEED TO CORNER OF OFFICE BLDG

6'± OF NEW SECURITY FENCE

N.10340.51 E.89168.41

EMPLOYEE SECURITY FENCE TURNSTILE

N.10338.94 E.89167.69

LEASE LINE

VANEXCO CAP

NEW SECURITY FENCE TO CONNECT WITH EXISTING FENCE CORNER

N.10328.07 E.89197.51

N.10331.17 E.89179.80

455'± OF NEW SECURITY FENCE TO FOLLOW LEASE LINE

N.10323.12 E.89193.31

LEASE

UD

SECURITY FENCE PLAN – OFFICE BLDG AREA

1"=25'

N

NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. ALL SECURITY FENCING TO FOLLOW WASHINGTON STATE DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS CHAIN LINK FENCE & GATES TO FOLLOW:
   - A. SECTION 9-16.1(1)
   - B. ALL POSTS, CAPS, FABRIC, AND HARDWARE SHALL BE BLACK POLYVINYL CHLORIDE (PVC) COATED GALVANIZED STEEL. BOLTS MAY BE PAINTED BLACK RUST RESISTANT PAINT AFTER ASSEMBLY OF THE FENCE.
   - C. SECTION 9-16.4(5)
   - D. ALL FENCE TIES WILL BE "SECURITY TIES" CAPABLE OF BEING WRAPPED COMPLETELY AROUND POSTS AND TIED IN BACK.
4. FENCING TO BE 8' TALL, U.N.O.
5. EXPOSED GALVANIZED PARTS ARE NOT ALLOWED ANYMORE, AS IT IS DIFFICULT TO COMPLY WITH THE STATE ALLOWABLE ZINC LEVELS IN STORM RUNOFF.

811 Know what's below. Call before you dig.

LEGEND

—— x —— FENCE

NORMAN L. BENNION — STATE OF WASHINGTON — 21611 — REGISTERED PROFESSIONAL ENGINEER

1"=10'

0 5' 10' 20' 30' 40'

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

R&M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801)263-3419
13014

TESORO SAVAGE

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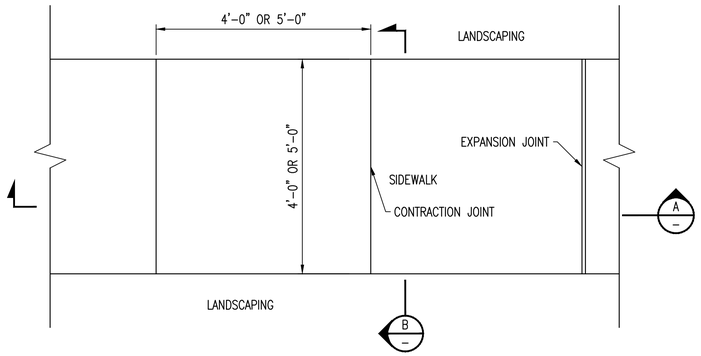
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

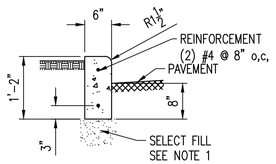
PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0200 OFFICE BUILDING
SECUTIRY FENCE PLAN

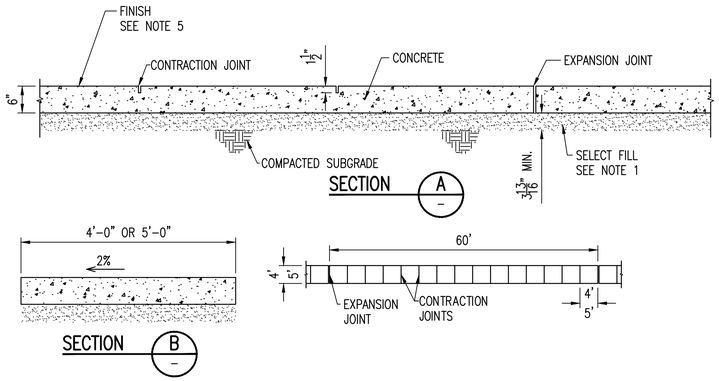
DESIGN:		START DATE: 06-18-13	SCALE: AS SHOWN
DRAWN: JBH		PRINT DATE:	PROJECT MANAGER: DC
CHECKED: JBH		APPROVED:	SIAE: 24x36

DRAWING NUMBER: 0200-SP-005 | SHEET: 1/1 | REV.: HH





TYPE P
CURB WALL SECTION
SCALE 1:16



TYPICAL SIDEWALK DETAILS

PRELIMINARY
FOR INTERNAL DISCUSSION ONLY
DO NOT USE FOR CONSTRUCTION

NORMAN L. BENNION
STATE OF WASHINGTON
21011
REGISTERED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

R&M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801)263-3419
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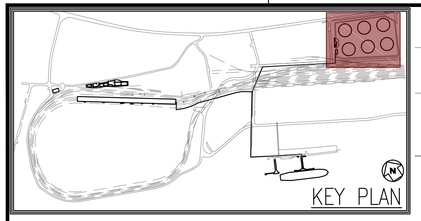
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: TYPICAL SITE PLAN DETAILS

DESIGN:	START DATE: 05-06-13	SCALE:	NTS
DRAWN: JBH	PRINT DATE:	PROJECT MANAGER:	DC
CHECKED:	APPROVED:	SIAAE:	24x36

DRAWING NUMBER	SHEET	REV.
0200-SP-010	1/1	HH



NW LOWER RIVER ROAD/ERWIN O. RIEGER MEMORIAL HIGHWAY (501) [PUBLIC]

6' HIGH CONTAINMENT BERM

9'-2"±

5'-0"±

5'-0"±

60' (60' MIN.)

Ø240'x48' TALL TYP.

120'-0" MIN. TYP.

TANK #1

TANK #2

FIRE PUMP, E-HOUSE, STORAGE BLDG, & PARKING
SEE ENLARGED PLAN DWG 0300-SP-002

FARWEST STEEL

SEE DWG 0300-SP-005 FOR ROAD DETAILS

INTERMEDIATE CONTAINMENT BERM TYP.

TANK #5 (FUTURE)

TANK #6 (FUTURE)

6' HIGH CONTAINMENT BERM

7'-9"±

NEW SECURITY FENCE TO FOLLOW LEASE LINE SEE DWG 0300-SP-004

120' MIN

DRAINAGE CATCH BASIN TYP. (6) PLCS

TANK #3

TANK#4

25'-0" NEW SECURITY ROLLING GATE

PUMP BASIN
SEE ENLARGED PLAN DWG 0300-SP-003

33'±

(3) TRANSFER PIPELINES: UNLOADING TO STORAGE AREA

(1) TRANSFER PIPELINE: STORAGE AREA TO MARINE TERMINAL

A 0300-SP-010

CONST

LEASE

NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. ALL SECURITY FENCING TO BE 8' TALL WITH 3 STRANDS OF PLASTIC COATED BARBED WIRE ON TOP. SEE DWG 0300-SP-004
4. ASPHALT PARKING LOT SEE SOILS REPORT FOR THICKNESS

PRELIMINARY

FOR INTERNAL DISCUSSION ONLY

DO NOT USE FOR CONSTRUCTION

STORAGE AREA – PLAN VIEW
1"=60'

N

1"=60' 0 30' 60' 120' 180' 240'

NORMAN L. BENNION STATE OF WASHINGTON 14611 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

R&M ENGINEERING CONSULTANTS
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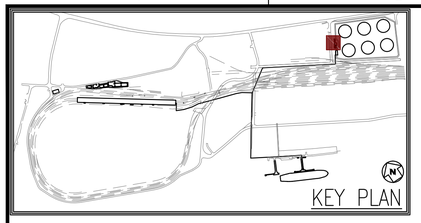
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0300 STORAGE
PLAN VIEW

DESIGN:	START DATE: 05-06-13	SCALE:	1"=60'
DRAWN: JBH	PRINT DATE:	PROJECT MANAGER:	DC
CHECKED:	APPROVED:	SIAAE:	24x36
DRAWING NUMBER		SHEET	REV.
0300-SP-001		1/1	HH



PRELIMINARY

FOR INTERNAL DISCUSSION ONLY

DO NOT USE FOR CONSTRUCTION

20'-0" BLDG

14'-0" BLDG

CABLE TRAY SUPPORT TYP.

CONTAINMENT BERM

10'-0" BLDG

AIR COMPRESSOR BLDG w/ SHED
FF. ELEV. = 32.25'

E HOUSE #2
AREA: 960 S.F.
T/CONC. = 32.00'

40'-0" BLDG

40'-0" BLDG

40'-0" BLDG

CATHODIC PROTECTION EQUIPMENT PAD

STORAGE BUILDING
AREA: 1,600 S.F.
FF ELEV. = 32.25'

E HOUSE #1
AREA: 960 S.F.
T/CONC. = 30.50'

14'-0" BLDG

WALKABLE GRAVEL SURFACE (2,150 FT² FOR AREA 0300)

WALKABLE GRAVEL SURFACE (2,150 FT² FOR AREA 0300)

50'-0" BLDG

FIRE PUMP & FOAM BUILDING
AREA: 750 S.F.
T/CONC. = 31.00'

15'-0" BLDG

19'-0"

14'-3"

METERING EQUIPMENT

(2) TRANSFORMERS

ELECTRICAL UTILITY

UTILITY SUB-STATION & TRANSFORMERS
T/CONC. 30.50'

5'-0"± TYP.

5'-0"

(5) SP. @ 9'-0" = 45'-0"

33'-6" RAMP

11'-11"

25'-0"

GRAVEL ROAD

ASPHALT ROAD

SEE DWG 0300-SP-005 FOR ROAD DETAILS

LEASE

NEW SECURITY FENCE TO FOLLOW LEASE LINE SEE DWG 0300-SP-004

25'-0" NEW SECURITY ROLLING GATE

MATCH LINE 0300 A-A SEE DWG 0300-SP-003

NOTES:

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2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. SEE DWG 0300-SP-004 FOR SECURITY FENCING DETAILS.
4. FOR LOCATION INFORMATION ON LOCATING BUILDING FOUNDATION, CONCRETE PADS, & CABLE TRAY SUPPORTS SEE FOUNDATION PLOT PLANS FOR AREA 0300 IN THE 0300-FD-XXX DRAWING SERIES.

811 Know what's below. Call before you dig.

1"=10'

0 5' 10' 20' 30' 40'

FIRE PUMP BLDG, STORAGE BLDG, E-HOUSE, & TRANSFORMERS – PLAN VIEW

1"=10'

NORMAN L. BENNION — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

R&M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801)263-3419
13014

TESORO SAVAGE

THIS DRAWING CONTAINS PROPRIETARY AND PRIVILEGED INFORMATION OF TESORO SAVAGE PETROLEUM LLC AND SHALL NOT BE DISCLOSED OR USED FOR THE BENEFIT OF OTHERS WITHOUT PRIOR WRITTEN PERMISSION OF THE DRAWING OWNER.

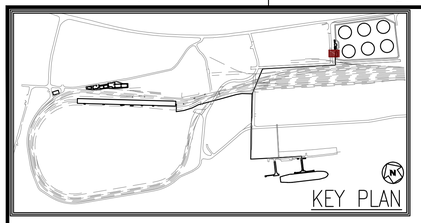
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

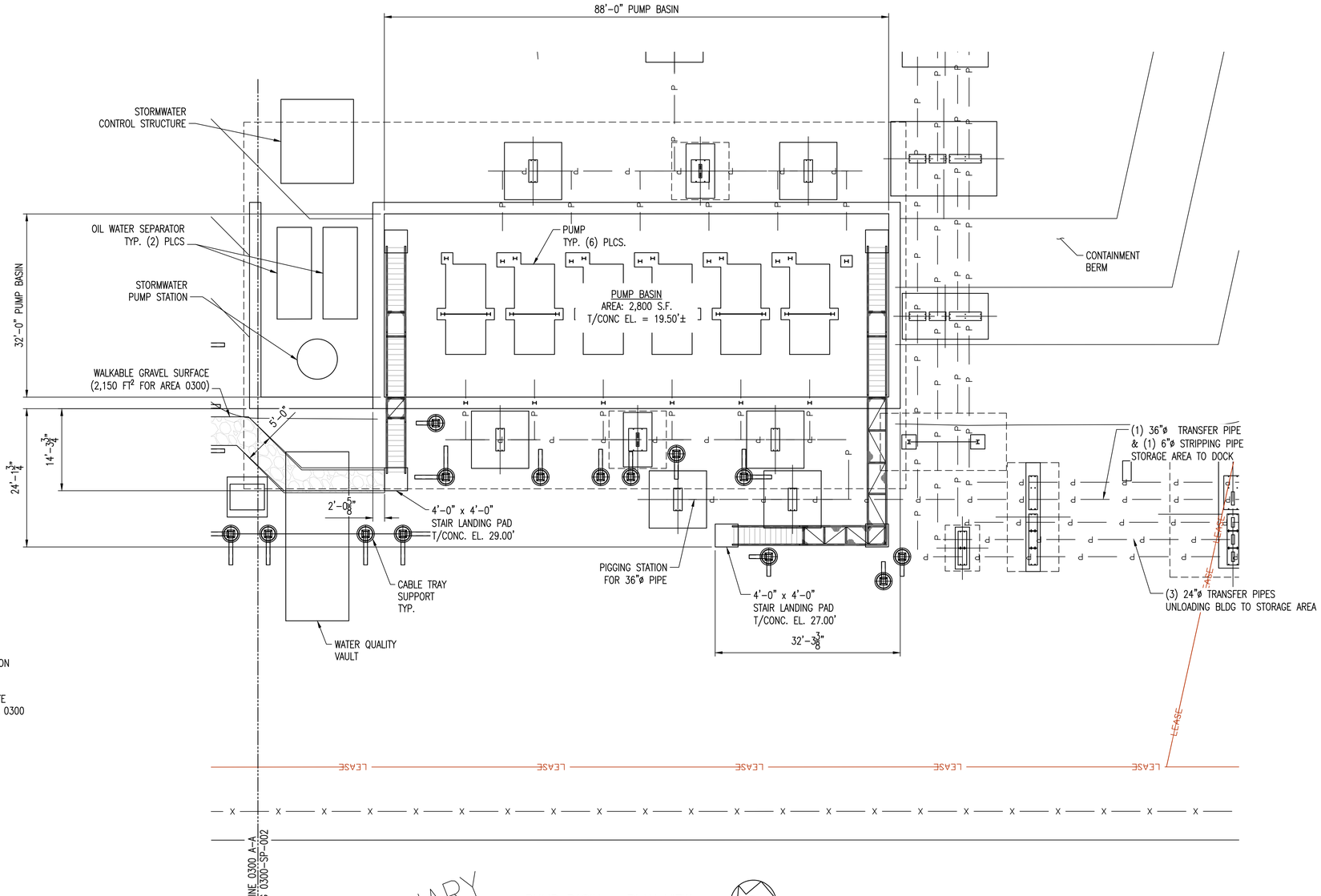
PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0300 STOARGE BUILDING, FIRE BLDG, & PARKING

DESIGN:	START DATE: 06-18-13	SCALE:	AS SHOWN
DRAWN: MWD	PRINT DATE:	PROJECT MANAGER:	DC
CHECKED:	APPROVED:	SIAAE:	24x36

DRAWING NUMBER	SHEET	REV.
0300-SP-002	1/1	HH





NOTES:

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PRELIMINARY

FOR INTERNAL DISCUSSION ONLY

DO NOT USE FOR CONSTRUCTION

PUMP BASIN – PLAN VIEW

1"=10'

Know what's below. Call before you dig.

1"=10' 0 5' 10' 20' 30' 40'

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

R&M ENGINEERING CONSULTANTS
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CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

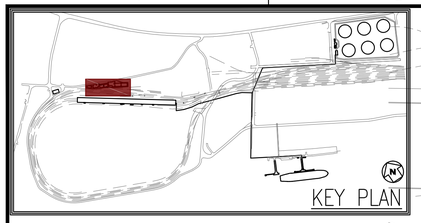
PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0300 STORAGE
PUMP BASIN ENLARGED PLAN VIEW

DESIGN:		START DATE:	06-18-13	SCALE:	AS SHOWN
DRAWN:	JBH	PRINT DATE:		PROJECT MANAGER:	DC
CHECKED:		APPROVED:		SIAAE:	24x36

DRAWING NUMBER	SHEET	REV.
0300-SP-003	1/1	HH

NORMAN L. BENNION STATE OF WASHINGTON 14611 REGISTERED PROFESSIONAL ENGINEER



NOTES:

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2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. ALL SECURITY FENCING TO FOLLOW WASHINGTON STATE DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS CHAIN LINK FENCE & GATES TO FOLLOW:
   - A. SECTION 9-16.1(1)
   - B. ALL POSTS, CAPS, FABRIC, AND HARDWARE SHALL BE BLACK POLYVINYL CHLORIDE (PVC) COATED GALVANIZED STEEL. BOLTS MAY BE PAINTED BLACK RUST RESISTANT PAINT AFTER ASSEMBLY OF THE FENCE.
   - C. SECTION 9-16.4(5)
   - D. ALL FENCE TIES WILL BE "SECURITY TIES" CAPABLE OF BEING WRAPPED COMPLETELY AROUND POSTS AND TIED IN BACK.
4. FENCING TO BE 8' TALL.
5. EXPOSED GALVANIZED PARTS ARE NOT ALLOWED ANYMORE, AS IT IS DIFFICULT TO COMPLY WITH THE STATE ALLOWABLE ZINC LEVELS IN STORM RUNOFF.

NORMAN L. BENNION — STATE OF WASHINGTON — 19611 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

FOR INTERNAL DISCUSSION ONLY

DO NOT USE FOR CONSTRUCTION

SECURITY FENCE PLAN – STORAGE AREA

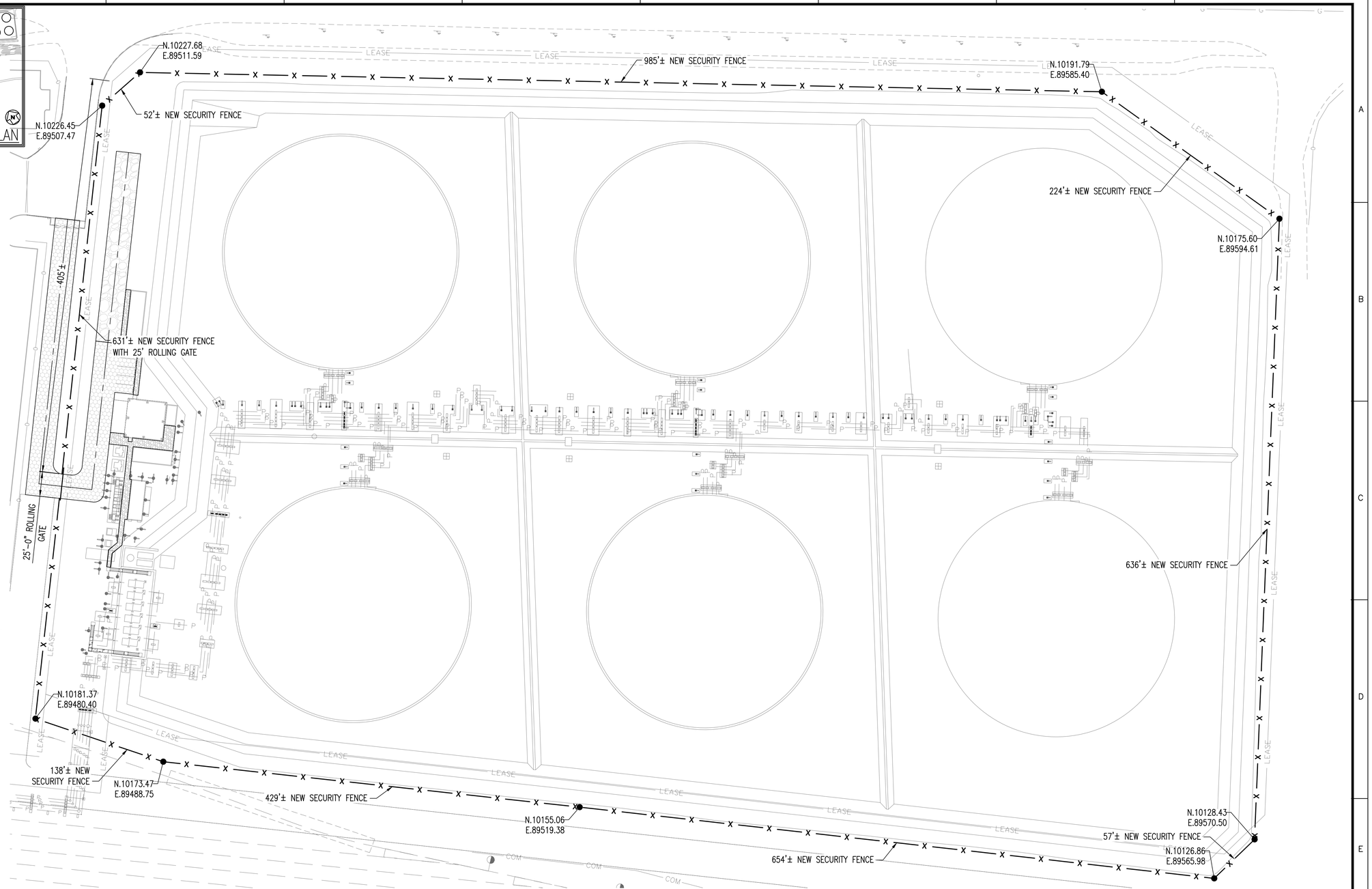
1"=50'

LEGEND

FENCE

1"=50' 0 25' 50' 100' 150' 200'

Know what's below. Call before you dig.



NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

1304 SITE PLAN 11-05-14

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TESORO SAVAGE

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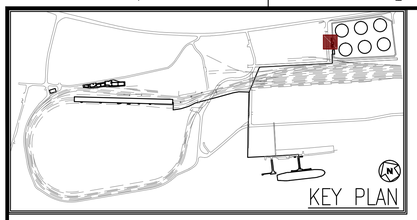
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

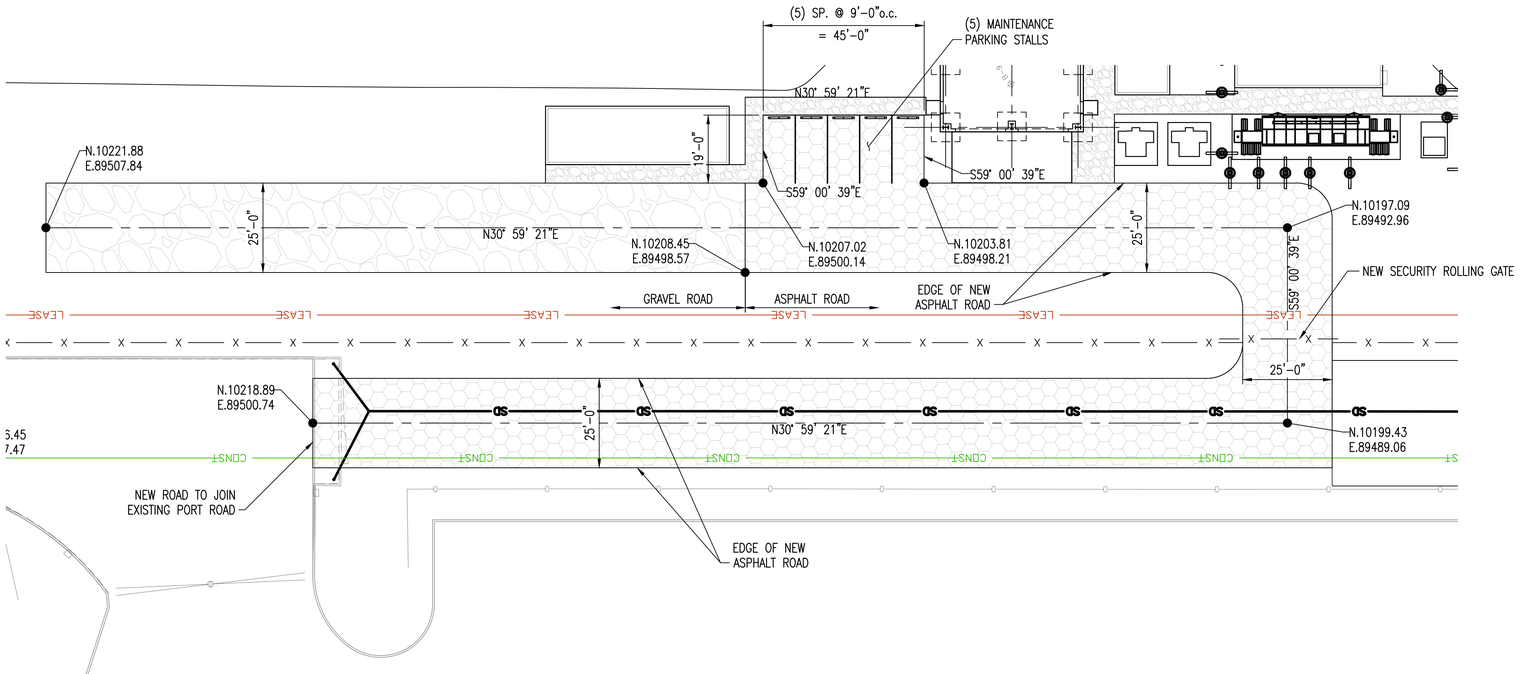
PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0300 STORAGE AREA
SECUTIRY FENCE PLAN

DESIGN:		START DATE: 06-18-13	SCALE: AS SHOWN
DRAWN: MWD		PRINT DATE:	PROJECT MANAGER: DC
CHECKED:		APPROVED:	SIAAE: 24x36

DRAWING NUMBER	SHEET	REV.
0300-SP-004	1/1	HH





PRELIMINARY

FOR INTERNAL DISCUSSION ONLY

DO NOT USE FOR CONSTRUCTION

STORAGE AREA – PLAN VIEW

1"=60'

NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. ALL SECURITY FENCING TO BE 8' TALL WITH 3 STRANDS OF PLASTIC COATED BARBED WIRE ON TOP. SEE DWG 0300-SP-004
4. ASPHALT PARKING LOT SEE SOILS REPORT FOR THICKNESS

1"=60' 0 30' 60' 120' 180' 240'

NORMAN L. BENNION STATE OF WASHINGTON 21611 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

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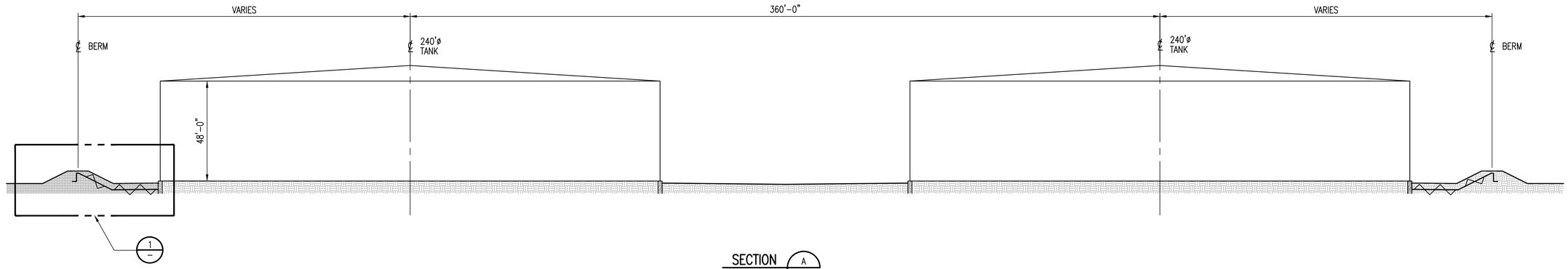
PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0300 STORAGE
ROADWAY PLAN VIEW

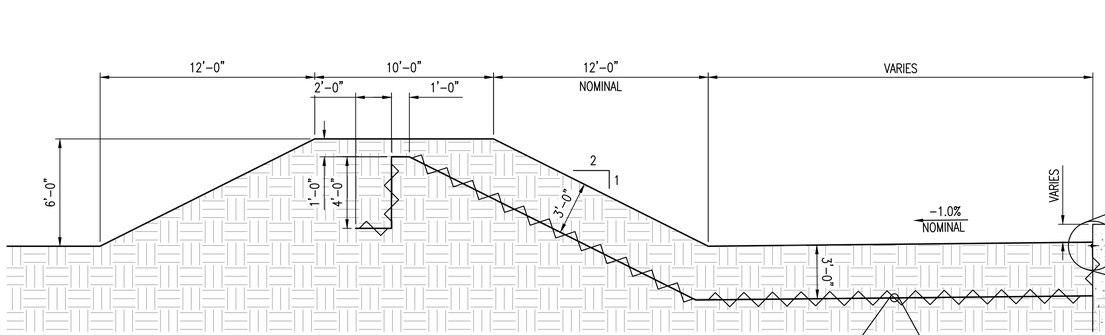
DESIGN:		START DATE: 11-05-14	SCALE: 1"=60'
DRAWN:	MWD	PRINT DATE:	PROJECT MANAGER: DC
CHECKED:		APPROVED:	SIAE: 24x36

DRAWING NUMBER	SHEET	REV.
0300-SP-005	1/1	HH

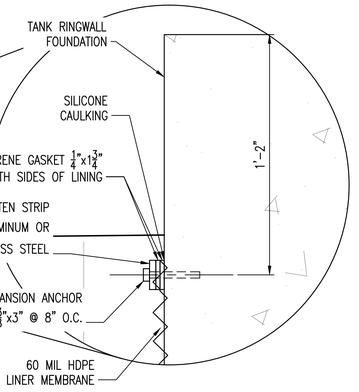
13014 SITE PLAN 11-05-14



SECTION A
NTS 0300-SP-001



DETAIL 1
NTS –



PRELIMINARY
DO NOT USE FOR CONSTRUCTION

NORMAN L. BENNION
STATE OF WASHINGTON
41661
REGISTERED PROFESSIONAL ENGINEER

3"=1'-0" 0 3" 6" 9" 1' 1'-3"

1"=25' 0 12.5' 25' 50' 75' 100'

NO.	DATE	REVISION	BY	CK'D	APP
HH	11-14-14	ISSUED FOR BID	NLB	–	–

0300-SP-010 REV HH

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(801)263-3419
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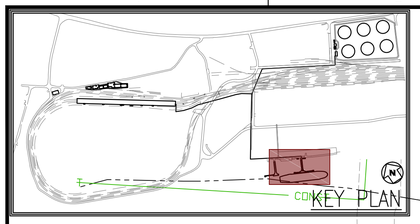
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0300 STORAGE AREA
HDPE LINING SECTION VIEW

DESIGN:		START DATE: 05-06-13	SCALE: AS NOTED
DRAWN:	DLB	PRINT DATE:	PROJECT MANAGER: DC
CHECKED:		APPROVED:	SIZE: 24x36

DRAWING NUMBER	SHEET	REV.
0300-SP-010	1/1	HH



PRELIMINARY
FOR INTERNAL DISCUSSION ONLY
DO NOT USE FOR CONSTRUCTION

MVCU – BLOWER PAD
(24'x10')
T/CONC = 31.00'

77'–0"
MVCU PAD

25'–0"
BLOWER PAD

10'–6"
BLOWER PAD

35'–9"
MVCU PAD

200' SHORELINE
BUFFER FROM OHWL

MARINE VAPOR CONTROL UNIT (MVCU):
(70'x32')
T/CONC. = 31.00'

(2) 12' SWING SECURITY
FENCE GATES

(2) TRANSFORMERS

N.10087.30
E.89346.44

(10) MAINTENANCE
PARKING STALLS

76'–7" CTR PIPE BRIDGE
TO EDGE OF ROAD

N.10086.73
E.89347.43

EDGE OF NEW
ASPHALT ROAD

WALKABLE GRAVEL
(9,800 FT² FOR AREA 0400)

ORDINARY
HIGH WATER
LINE

SHIP MOORING
DOLPHIN

TELESCOPING
WALKWAY

EXISTING
DOLPHIN

CONTROL ROOM/E-HOUSE
& STAIR TOWER:
AREA = 385SF
FF ELEV. = 34.00'
(32'x12')

FIRE PUMP & FOAM BUILDING:
AREA = 750SF
T/CONC. = 30.50'
(50'x15')

TRANSFER PIPELINE BRIDGE #5

MVCU: DOCK SAFETY UNIT
(5'x20')

STAIR GANGWAY
TOWER

HOSE TOWER

SHORELINE

ROTATING
TELESCOPING
WALKWAY

EXISTING
DOLPHIN

COLUMBIA RIVER

BERTH #14

BERTH #13

COLUMBIA RIVER

EXTREME LIMITS OF SHIP SIZES
TO BE SERVICED AT THIS FACILITY

MARINE TERMINAL – PLAN VIEW
1"=40'

0 20' 40' 80' 120' 160'
1"=40'

NORMAN L. BENNION
STATE OF WASHINGTON
16611
REGISTERED
PROFESSIONAL ENGINEER
PRELIMINARY

NOTES:

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3. 3.ALL SECURITY FENCING TO BE 8' TALL WITH 3 STRANDS OF PLASTIC COATED BARBED WIRE ON TOP.
4. FOR LOCATION INFORMATION ON LOCATING BUILDING FOUNDATION, CONCRETE PADS, & CABLE TRAY SUPPORTS SEE FOUNDATION PLOT PLANS FOR AREA 0400 IN THE 0400-FD-XXX DRAWING SERIES.
5. SEE DWG 0400-SP-002 FOR ROAD DETAILS.
6. FOR ASPHALT PARKING LOT DETAILS SEE SOILS REPORT THICKNESSES.

13014 SITE PLAN 11-05-14

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

R&M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801)263-3419
13014

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PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0400 MARINE TERMINAL
ENLARGED PLAN VIEW

DESIGN:		START DATE: 05-06-13		SCALE:	1"=40'
DRAWN:	JBH	PRINT DATE:		PROJECT MANAGER:	DC
CHECKED:		APPROVED:		SIAE:	24x36

DRAWING NUMBER	SHEET	REV.
0400-SP-001	1/1	HH

PRELIMINARY

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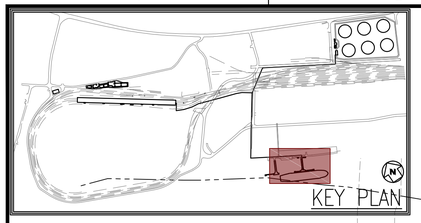

LEASE

N.10104.90
E.89319.38

N.10104.40
E.89320.21

EDGE OF NEW
ASPHALT ROAD

N.10093.15
E.89339.45

N.10091.80
E.89339.80

(10) MAINTENANCE
PARKING STALLS

N.10086.88
E.89350.37

N.10083.42
E.89355.90

N.10079.44
E.89363.01

N.10084.37
E.89365.99

20'-0"

NEW ROAD TO JOIN
EXISTING PORT ROAD

N59° 08' 41"W

N27° 17' 19"E

N.10099.42
E.89328.54

N60° 07' 19"W

N.10083.55
E.89355.68

N.10080.57
E.89360.85

S31° 05' 50"W

R20'-0"
TYP.

55'-4"

N.10075.00
E.89370.73

EDGE OF NEW
ASPHALT ROAD

N.10057.29
E.89405.95

N.10059.59
E.89400.55

WALKABLE GRAVEL
(9,800 FT² FOR AREA 0400)

24'-0"

N57° 50' 16"W

N27° 28' 25"E

N62° 20' 34"W

N59° 11' 27"W

N62° 39' 54"W

N66° 58' 56"W

N.10100.91
E.89318.40

22'-0"

12'-0"±

5'-0"±

19'-0"

(10) SP. @
9'-0"o.c. =90'-0"

N.10080.83
E.89354.55

N.10078.26
E.89365.26

WALKABLE GRAVEL
(9,800 FT² FOR AREA 0400)

24'-0" ROAD
TYP.

4'-0"±

NEW ROAD TO MATCH EXISTING
EDGE OF ASPHALT AT EXISTING GATE

COLUMBIA RIVER

BERTH #14

BERTH #13

COLUMBIA RIVER

EXTREME LIMITS OF SHIP SIZES
TO BE SERVICED AT THIS FACILITY

MARINE TERMINAL – PLAN VIEW
1"=40'

N

NORMAN L. BENNON
STATE OF WASHINGTON
21611
REGISTERED
PROFESSIONAL ENGINEER

NOTES:

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5. FOR ASPHALT PARKING LOT DETAILS SEE SOILS REPORT THICKNESSES.

0 20' 40' 80' 120' 160'
1"=40'

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

R&M ENGINEERING CONSULTANTS
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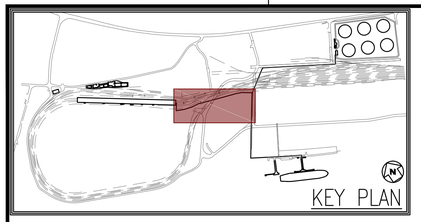
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0400 MARINE TERMINAL
ROADWAY PLAN VIEW

DESIGN:	START DATE: 05-06-13	SCALE:	1"=40'
DRAWN: JBH	PRINT DATE:	PROJECT MANAGER:	DC
CHECKED:	APPROVED:	SIAAE:	24x36

DRAWING NUMBER	SHEET	REV.
0400-SP-002	1/1	HH



CENTER OF TRACKS TYP.

GATEWAY AVE. OVERPASS

4107

4101

4109

4203

4203

395'± BURIED PIPELINE

LEASE

CONST

VAULT #3

SEE DWG 0500-SP-002 FOR PIPE ROUTE BEYOND THIS POINT

EXPANSION LOOP

FUTURE CLARK PUBLIC UTILITIES SUBSTATION

VAULT #2

395'± BURIED PIPELINE LOCATION

VAULT #1

GATEWAY AVE.

166'-6"± TRANSFER PIPELINE BRIDGE #1

PROOVING SYSTEM SEE FENCE DETAILS BELOW

OVERPASS TO INNERLOOP ACCESS ROAD

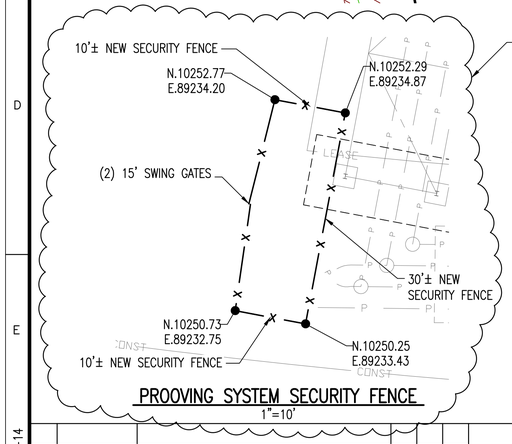
EXPANSION LOOP

NEW SUBARU GATE

SEE DWG 0500-SP-003 FOR PIPE ROUTE BEYOND THIS POINT

VAULT #5

CLARK COUNTY JAIL



PROOVING SYSTEM SECURITY FENCE

1"=10'

SECURITY FENCE NOTES:

1. ALL SECURITY FENCING TO FOLLOW WASHINGTON STATE DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS CHAIN LINK FENCE & GATES TO FOLLOW:
   - A. SECTION 9-16.1(1)
   - B. ALL POSTS, CAPS, FABRIC, AND HARDWARE SHALL BE BLACK POLYVINYL CHLORIDE (PVC) COATED GALVANIZED STEEL. BOLTS MAY BE PAINTED BLACK RUST RESISTANT PAINT AFTER ASSEMBLY OF THE FENCE.
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PIPE ROUTE – SECTION 1

1"=60'

N

NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED 06/21/13

NORMAN L. BENNION STATE OF WASHINGTON 21611 REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

FOR INTERNAL DISCUSSION ONLY

DO NOT USE FOR CONSTRUCTION

NO.	DATE	REVISION	BY	CK'D	APP
–	–	–	–	–	–
HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

R&M ENGINEERING CONSULTANTS
SALT LAKE CITY, UTAH
(801)263-3419
13014

TESORO SAVAGE

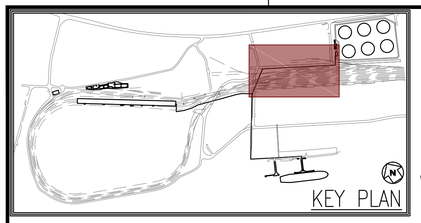
THIS DRAWING CONTAINS PROPRIETARY AND PRIVILEGED INFORMATION OF TESORO SAVAGE PETROLEUM LLC AND SHALL NOT BE DISCLOSED OR USED FOR THE BENEFIT OF OTHERS WITHOUT PRIOR WRITTEN PERMISSION OF THE DRAWING OWNER.

CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0500 TRANSFER PIPELINES
PLAN VIEW – SECTION 1

DESIGN:	START DATE: 06-07-13	SCALE:	AS SHOWN
DRAWN: JBH	PRINT DATE:	PROJECT MANAGER:	DC
CHECKED:	APPROVED:	SIAAE:	24x36
DRAWING NUMBER		SHEET	REV.
0500-SP-001		1/1	HH



GATEWAY AVE.

FAR WEST STEEL

44'-6" BOUNDARY TO CENTER OF PIPE

PIPES BEND SLIGHTLY AT THIS LOCATION

TRANSFER PIPELINE BRIDGE #2

EXPANSION LOOP TYP.

VAULT #4

24'-0"

NEW PIPELINE OVERPASS:
24' WIDE DRIVE THRU
14' CLEARANCE HEIGHT

473'-10" BURIED PIPELINES

VAULT #3

SEE DWG 0500-SP-001
FOR PIPE ROUTE BEYOND THIS POINT

CENTERLINE OF TRACK TYP.

CENTER OF RAILROAD

SEE ENLARDED VIEW THIS DWG

TRANSFER PIPELINE BRIDGE #3

N.10199.43
E.89489.06

S59° 00' 39"E

N.10197.09
E.89492.96

N.10190.11
E.89492.44

34'-7" BOUNDARY TO CENTER OF PIPE

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PIPE ROUTE – SECTION 2

1"=60'

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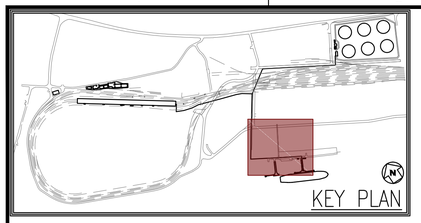
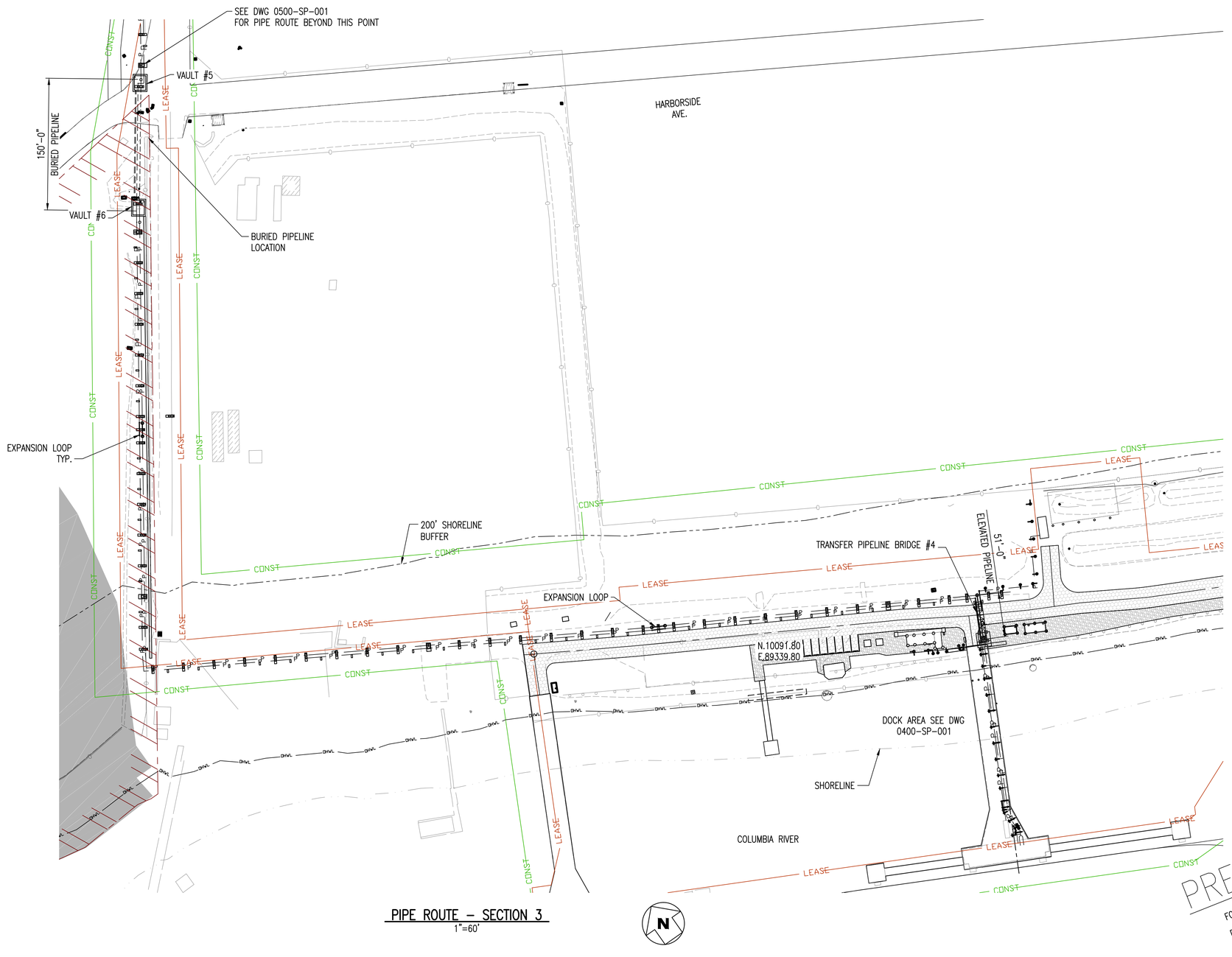
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0500 TRANSFER PIPELINES
PLAN VIEW – SECTION 2

DESIGN:	START DATE: 06-07-13	SCALE:	AS SHOWN
DRAWN: JBH	PRINT DATE:	PROJECT MANAGER:	DC
CHECKED:	APPROVED:	SIAAE:	24x36
DRAWING NUMBER		SHEET	REV.
0500-SP-002		1/1	HH





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2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED 06/21/13

LEGEND:

- LEASE LINE
- CONSTRUCTION LIMITS
- ENVIRO CAP

PIPE ROUTE – SECTION 3

1"=60'

NORMAN L. BENNION
STATE OF WASHINGTON
21611
REGISTERED
PROFESSIONAL ENGINEER

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–	–	–	–	–	–
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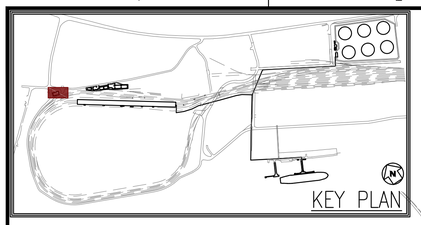
PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0500 TRANSFER PIPELINES
PLAN VIEW – SECTION 3

DESIGN:		START DATE: 06-07-13		SCALE:	AS SHOWN
DRAWN:	JBH	PRINT DATE:		PROJECT MANAGER:	DC
CHECKED:		APPROVED:		SIAAE:	24x36

DRAWING NUMBER	SHEET	REV.
0500-SP-003	1/1	HH

13014 SITE PLAN 11-05-14



PRELIMINARY

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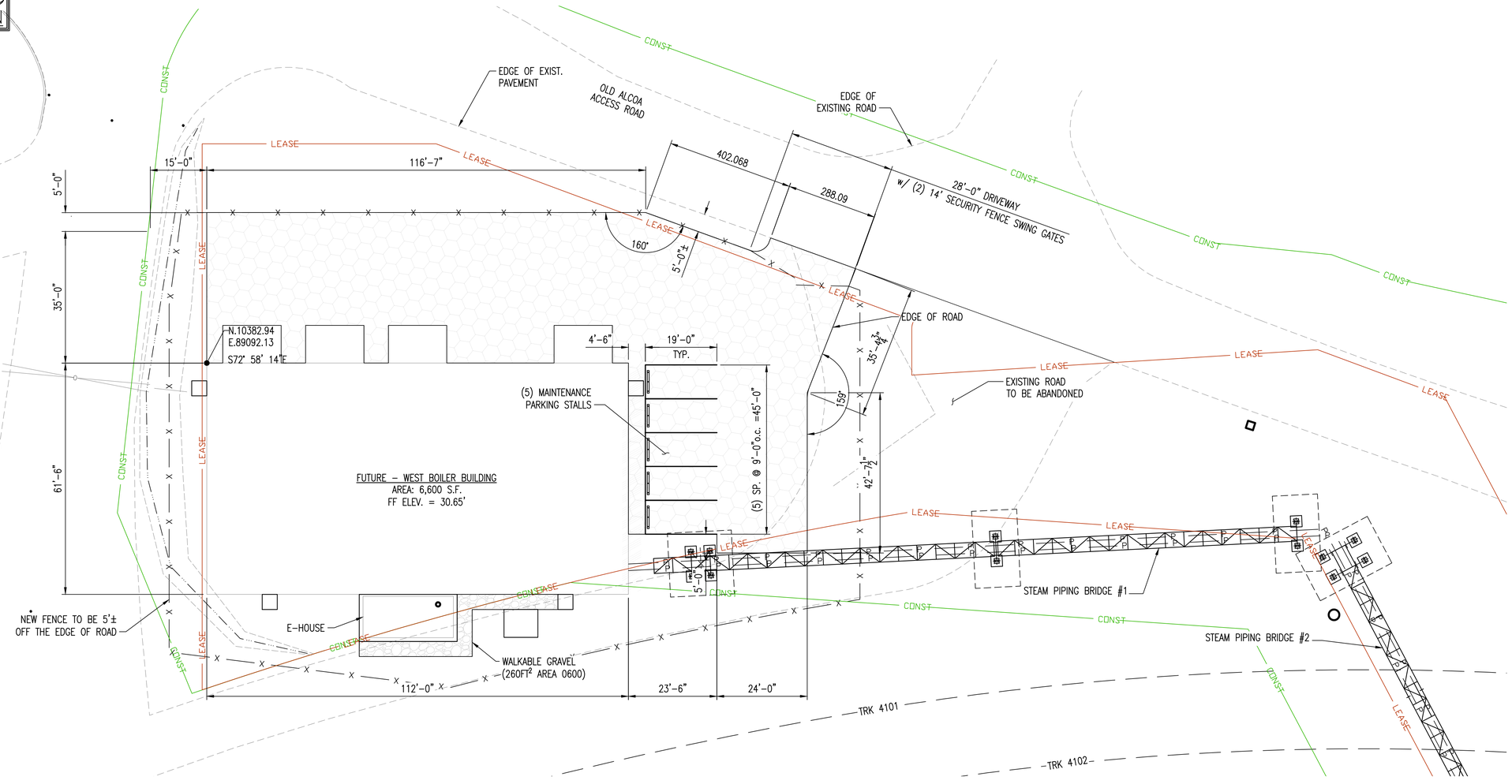
811 Know what's below. Call before you dig.



BOILER BUILDING – PLAN VIEW

1"=15'

N

NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. SEE DWG 0100-SP-013 FOR TYPICAL SITE PLAN DETAILS.
4. SEE DWG 0600-SP-002 FOR SECURITY FENCE DETAILS.

NORMAN L. BENNION — STATE OF WASHINGTON — 41611 — REGISTERED PROFESSIONAL ENGINEER

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HH	11-14-14	ISSUED FOR BID	NLB	–	–

13014 SITE PLAN 11-05-14

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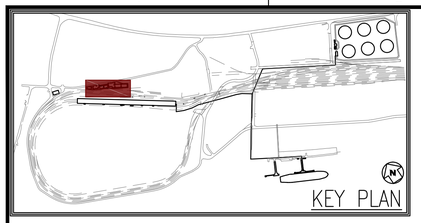
CUSTOMER: TESORO SAVAGE PETROLEUM TERMINAL LLC

PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0600 – BOILER BUILDING
ENLARGED PLAN VIEW

DESIGN:	START DATE: 06-18-13	SCALE:	AS SHOWN
DRAWN: MWD	PRINT DATE:	PROJECT MANAGER:	DC
CHECKED:	APPROVED:	SIAAE:	24x36

DRAWING NUMBER	SHEET	REV.
0600-SP-001	1/1	HH



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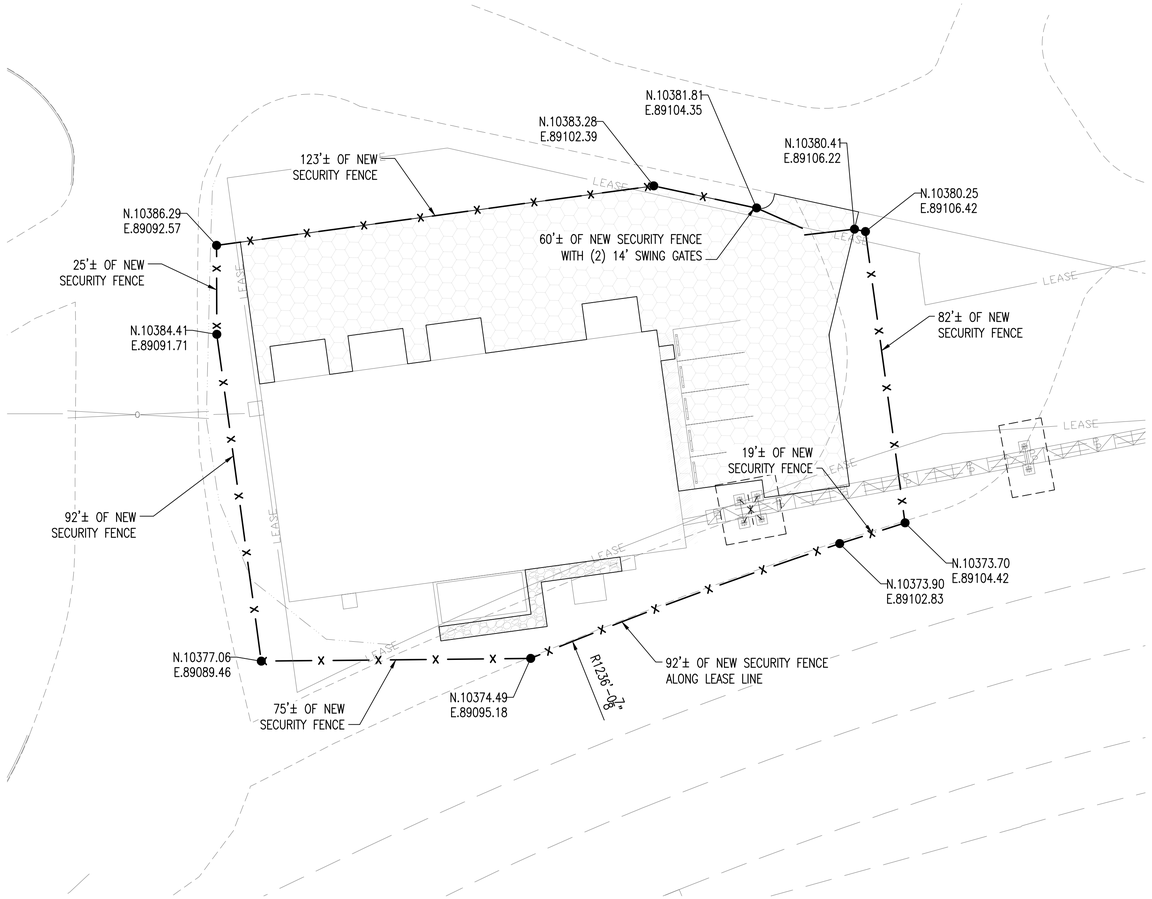

NOTES:

1. CONTRACTOR MUST CALL 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION
2. ALL SURVEY INFORMATION FROM MACKAY SPOSITO DATED JUN. 21, 2013
3. ALL SECURITY FENCING TO FOLLOW WASHINGTON STATE DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS CHAIN LINK FENCE & GATES TO FOLLOW:
   A. SECTION 9-16.1(1)
   B. ALL POSTS, CAPS, FABRIC, AND HARDWARE SHALL BE BLACK POLYVINYL CHLORIDE (PVC) COATED GALVANIZED STEEL. BOLTS MAY BE PAINTED BLACK RUST RESISTANT PAINT AFTER ASSEMBLY OF THE FENCE.
   C. SECTION 9-16.4(5)
   D. ALL FENCE TIES WILL BE "SECURITY TIES" CAPABLE OF BEING WRAPPED COMPLETELY AROUND POSTS AND TIED IN BACK.
4. FENCING TO BE 8' TALL.
5. EXPOSED GALVANIZED PARTS ARE NOT ALLOWED ANYMORE, AS IT IS DIFFICULT TO COMPLY WITH THE STATE ALLOWABLE ZINC LEVELS IN STORM RUNOFF.

Know what's **below.**
Call before you dig.

LEGEND

— x — FENCE

SECURITY FENCE PLAN – BIOLER BUILDING AREA
1"=20'

N

NORMAN L. BENNION
STATE OF WASHINGTON
21611
REGISTERED PROFESSIONAL ENGINEER

1"=20'
0 10' 20' 40' 60' 80'

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PROJECT: TESORO SAVAGE VANCOUVER ENERGY DISTRIBUTION TERMINAL
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 0600 BOILER BUILDING
SECUTIRY FENCE PLAN

DESIGN:		START DATE:	05-15-14	SCALE:	AS SHOWN
DRAWN:	JBH	PRINT DATE:		PROJECT MANAGER:	DC
CHECKED:		APPROVED:		SIAAE:	24x36

DRAWING NUMBER	SHEET	REV.
0600-SP-002	1/1	HH