BINDING EDGE

PORT OF TACOMA

EB-1 PAVEMENT AND RESTROOM BUILDING
PROJECT NO. 201105.01
CONTRACT NO. 071907

PORT COMMISSIONERS:

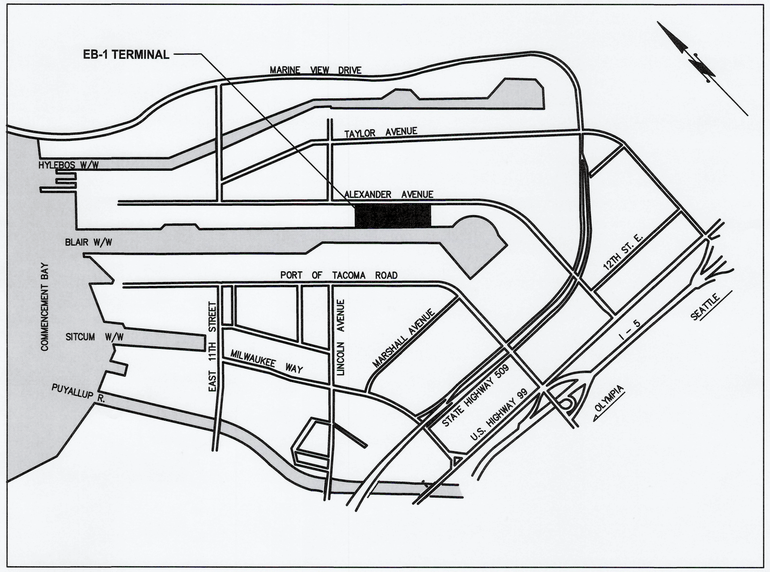
DON MEYER
KRISTIN ANG
RICHARD P. MARZANO
DEANNA KELLER
JOHN McCARTHY

PORT STAFF:

JOHN WOLFE
CEO NWSA

THAIS HOWARD, PE
Director of Engineering

NORMAN GILBERT, PE
Project Manager



SITE NOTES

PARCEL: 0321354035
PARCEL AREA: 94.62 ACRES
PROJECT AREA: 3.77 ACRES

PARCEL LEGAL TAX DESCRIPTION:

SECTION 35 TOWNSHIP 21 RANGE 03 QUARTER 43 POR OF SE LY SWLY OF ALEXANDER AVE EXC POR LY W/IN TR 18 & 19 OF PORT OF TACOMA ASSESSORS TRACTS TOG/W FOLL COM AT INTER OF LINCOLN AVE & ALEXANDER AVE TH S 45 DEG 53 MIN 41 SEC E 1519.21 FT TH S 44 DEG 6 MIN 19 SEC W 60 FT TO SLY MAR OF ALEXANDER AVE TH S 45 DEG 53 MIN 41 SEC E 769.96 FT TO POB TH S 44 DEG 6 MIN 19 SEC W 297.29 FT TH S 15 DEG 20 MIN W 178.56 FT TH S 44 DEG 06 MIN 19 SEC W 381.92 FT TH S 45 DEG 53 MIN 41 SEC E 515.50 FT TH N 44 DEG 6 MIN 19 SEC E 770 FT TO SLY MAR OF ALEXANDER AVE TH N 45 DEG 53 MIN 41 SEC W 669.25 FT TO POB APPROVED COMB BY CY OF TAC CED DEPT 8/27/12 COMB OF 4-034 & 4-028 SEG 2013-0219 DX01/31/13DX

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26	E5.0 ELECTRICAL DETAILS

OWNER

PORT OF TACOMA
ONE SITCUM PLAZA,
TACOMA, WA 98421
PHONE: 253-383-5841

PROJECT MANAGER:
NORM GILBERT, P.E.
NGILBERT@PORTOFTACOMA.COM

CIVIL ENGINEER

KPFF CONSULTING ENGINEERS
2407 N 31ST STREET
TACOMA, WA 98407
PHONE: 253-396-0150

POINT OF CONTACT:
BILL ARMOUR, P.E. LEED AP
BILL.ARMOUR@KPFF.COM

RELATED PERMITS

SITE DEVELOPMENT PERMITS: SEE SDEV 23-0067

WORK ORDER PERMIT: SEE WO23-0093

BUILDING PERMIT: SEE BLDCN23-0053

ELECTRICAL AND PLUMBING PERMITS: TO BE SUBMITTED BY THE CONTRACTOR DURING CONSTRUCTION

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kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (1837)(253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

ALDER KINGSLEY
STATE OF WASHINGTON
SEAN E. KINGSLEY
12/4/23

APPROVED:		TJH	11/21/2023
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12/7/23		SEK	11/21/2023
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PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA WA, 98401-1837		

EB-1 PAVEMENT AND RESTROOM BUILDINGS
COVER SHEET

6695
G1.0
1 OF 26

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36
M. ID:	201105.01	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	
PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS SHOWN	

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BINDING EDGE

ABBREVIATIONS

#	NUMBER
Ø	DIAMETER
@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ACP	ASBESTOS CONCRETE PIPE OR ASPHALTIC CONCRETE PAVEMENT
ADDL	ADDITIONAL
ADJ	ADJACENT
ADMIN	ADMINISTRATION
AGGR	AGGREGATE
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APP or APPVD	APPROVED
APPROX	APPROXIMATE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AREA	AMERICAN RAILWAY ENGINEERING ASSOCIATION
AREMA	AMERICAN RAILWAY ENGINEERING MAINTENANCE OF WAY ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATB	ASHPALT TREATED BASE
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BFO	BURIED FIBER OPTIC
BLDG	BUILDING
BM	BENCH MARK or BEAM
BMP or BMP'S	BEST MANAGEMENT PRACTICES
BNDRY	BOUNDARY
BNSF	BURLINGTON NORTHERN SANTA FE
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BRG	BEARING
BRZ	BRONZE
BTW or BTWN	BETWEEN
BV	BALL VALVE
CY	CONTAINER YARD OR CUBIC YARD
C/L	CENTERLINE
CAB	CRUSHED AGGREGATE BASE
CB	CATCH BASIN
CC	CENTER TO CENTER
CFS	CUBIC FEET PER SECOND
CIP	CAST IRON PIPE
CL	CENTER LINE or CLASS
CLF	CHAIN LINK FENCE
CLR	CLEAR or CLEARANCE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COT	CITY OF TACOMA
CONC	CONCRETE
CONT	CONTINUE or CONTINUOUS
CONT'D	CONTINUED
COORD	COORDINATE
COUP	COUPLING
CPP	CORRUGATED PLASTIC PIPE
CPT	CONE PENETROMETER TEST
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSBC	CRUSHED SURFACING BASE COURSE
CSG	CASING
CSTC	CRUSHED SURFACING TOP COURSE
CTB	CEMENT TREATED BASE
CTR	CENTER
Dc	DEGREE OF CURVATURE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DWY	DRIVEWAY
E	EAST or EASTING
EA	EACH
EG	EXISTING GRADE
EL or ELEV ELEC or ELECT	ELEVATION ELECTRICAL
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
EQ	EQUAL
ES	ELECTRICAL SUBSTATION or EACH SIDE
ETC	ET CETERA
EX or EXIST EXP	EXISTING
JT	EXPANSION JOINT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FIN	FINISH
FL	FLOW LINE OR FLANGE
FLGD	FLANGED JOINT
FM	FORCE MAIN
FND	FOUNDATION
FS	FINISHED SURFACE
FSM	FIRE SERVICE METER
FT	FOOT, FEET
G	GAS
GIS	GEOGRAPHIC INFORMATION SYSTEM
GPS	GLOBAL POSITIONING SYSTEM
GV	GATE VALVE
H or HORIZ	HORIZONTAL
HAZMAT	HAZARDOUS MATERIALS
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORZ	HORIZONTAL
HP	HIGH POINT
HSSD	HIGH STRENGTH STORM DRAIN
HT	HEIGHT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INCL	INCLUDE
IR	INDUSTRIAL REMEDIATION
JB	JUNCTION BOX
JS	JUNCTION STRUCTURE
JT	JOINT
KIP(S)	KILOPOUND(S)
L	LENGTH
LAT	LATERAL
LB	POUND
LF	LINEAL FOOT
LH	LEFT HAND
LIN	LINEAL or LINEAR
LOL	LAYOUT LINE
LT	LIGHT
MAX	MAXIMUM
MEP	MATCH EX PAVEMENT
MH	MANHOLE
MHHW	MEAN HIGHER HIGH WATER
MHW	MEAN HIGH WATER
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MLLW	MEAN LOWER LOW WATER
MLW	MEAN LOW WATER
MSP	MANUAL OF STANDARD PRACTICE
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH or NORTHING
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OD	OUTSIDE DIAMETER
OVH	OVERHEAD
OHWL	ORDINARY HIGH WATER LINE
P/L or PL	PROPERTY LINE
PB	PULL BOX
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PERF	PERFORATED
PERP	PERPENDICULAR
PG	PERFORMANCE GRADE
PI	POINT OF INTERSECTION
PJ	PUSH-ON JOINT
PNT	POINT
POT	PORT OF TACOMA
PP	POWER POLE
PR	PRESSURE RATING
PRESS RED	PRESSURE REDUCER
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PRVS	PRESSURE RELIEF VALVE
PSF	POUNDS PER SQUARE FOOT
PS	POINT OF SWITCH
PSI	POUNDS PER SQUARE INCH
PT	POINT or POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R	RIDGE OR RADIUS
R/W OR ROW	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REF	REFERENCE
REINF	REINFORCE OR REINFORCING
REQ'D	REQUIRED
RH	RIGHT HAND
RP	RADIUS POINT
RR	RAILROAD
RT.	RIGHT
S	SLOPE OR SOUTH
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SDMH	STORM DRAIN MANHOLE
SE	SOUTH-EAST
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQ	SQUARE
SQFT	SQUARE FEET
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
STL	STEEL
SW	SOUTHWEST
SYM	SYMMETRIC or SYMBOL
T/R or TOR	TOP OF RAIL
TB	THRUST BLOCK
TBM	TEMPORARY BENCH MARK
TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
TF	TRACK FEET
T&B	TOP AND BOTTOM
TO	TURNOUT
TOB	TOP OF BANK
TOS	TOE OF SLOPE
TOP	TOP OF PIPE
TOR	TOP OF RAIL
TPU	TACOMA PUBLIC UTILITIES
TW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UV	ULTRA-VIOLET
V	VERTICAL
VAR	VARIABLE or VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WATER, WEST, WIDTH
W/	WITH
W/O	WITHOUT
WHS	WELDED HEADED STUD
WM	WATER METER
WWAY	WALKWAY
XO	CROSSOVER
XS	EXTRA STRONG

GENERAL NOTES:

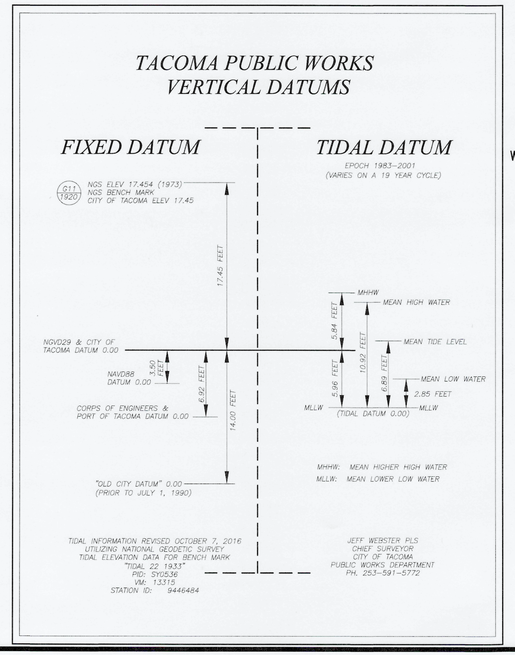
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS, CITY OF TACOMA STANDARDS, AREMA, TACOMA RAIL, AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS 2022.
2. BEFORE ANY CONSTRUCTION MAY BEGIN, THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE PORT AND CITY OF TACOMA PERMIT DEPARTMENT AND INSPECTION STAFF.
3. A COPY OF THESE APPROVED PLANS AND ALL AMENDMENTS SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS IF NECESSARY BEFORE INITIATING OFF-SITE WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, SPOTTERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND OF THE CONTRACTOR. ANY WORK WITHIN THE TRAVELLED RIGHT OF WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING TEMPORARY TRAFFIC CONTROL PLANS, PERMITTING, AND COORDINATION TO PROVIDE ADEQUATE TEMPORARY TRAFFIC CONTROL ACCORDING TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND WSDOT STANDARD PLANS.
6. PRIOR TO THE START OF EXCAVATION, THE CONTRACTOR SHALL CALL 1-800-424-555 FOR UTILITY LOCATES AND COORDINATE UTILITY WORK WITH THE UTILITY SERVICE PROVIDER.
7. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM CONDITIONS. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
8. TACOMA WATER FACILITIES MUST REMAIN ACCESSIBLE AT ALL TIMES. ANY DAMAGES TO TACOMA WATER FACILITIES WILL BE REPAIRED BY TACOMA WATER CREWS AT THE EXPENSE OF THE CONTRACTOR.
9. CONTRACTOR SHALL OBTAIN SIDE SEWER CONNECTION PERMITS THROUGH CITY OF TACOMA SITE DEVELOPMENT. CONTACT (253) 591-5760 OR TACOMAPERMITS.ORG. SEPARATE PERMITS ARE REQUIRED FOR EACH CONNECTION.
10. CHANGES OR REVISIONS TO THE ORIGINALLY APPROVED PERMIT SUBMITTAL SHALL BE SUBMITTED TO THE CITY PRIOR TO CONSTRUCTION.
11. THE APPLICANT SHALL SUBMIT RECORD DRAWINGS ("AS-BUILTS") TO THE CITY WHEN THE PROJECT IS COMPLETED.
12. THE ENGINEER OF RECORD SHALL PROVIDE AN ENGINEER'S CERTIFICATION TO THE CITY OF TACOMA AFTER FACILITY INSTALLATION AND PRIOR TO PERMIT FINAL INSPECTION AND/OR CLOSEOUT.
13. FROM OCTOBER 1 THROUGH APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UN-WORKED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS.

HORIZONTAL DATUM:

1. WASHINGTON STATE COORDINATE SYSTEM, SOUTH ZONE, NAD83-2011. REFER TO SHEETS G1.3-G1.5 FOR ADDITIONAL INFORMATION.

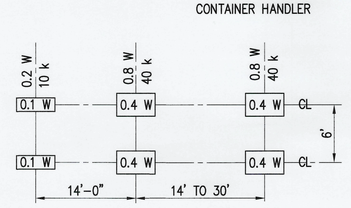
VERTICAL DATUM:

1. PORT OF TACOMA - MLLW 1983-2001 EPOCH REFER TO SHEETS G1.3-G1.5 FOR MONUMENT LOCATIONS AND ADDITIONAL INFORMATION.



DESIGN LOADING CRITERIA:

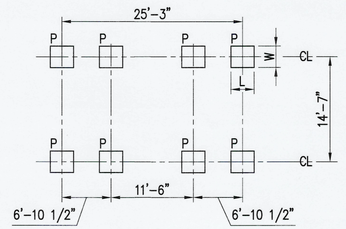
CONCENTRATED LIVE LOADS:
HS25 TRUCK
STRADDLE CARRIER
CONTAINER HANDLER



W = COMBINED WEIGHT ON THE FIRST TWO AXLES WHICH IS THE SAME AS FOR THE CORRESPONDING H TRUCK.

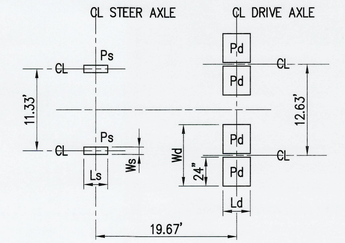
HS25 TRUCK = (1.25 x HS20)

NOTE: ADD 10% IMPACT TO ABOVE LOADS



P = 30.4 k (INCLUDES 10% IMPACT)
W = 10.24"
L = 20.24"
q = 145 psi

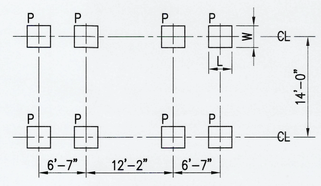
KALMAR CSC 340 STRADDLE CARRIER



Ps = 16 k (INCLUDES 10% IMPACT)
Ws = 20"
Ls = 6.1"
qs = 131 psi

Pd = 62 k (INCLUDES 10% IMPACT)
Wd = 51"
Ld = 23"
qd = 112 psi

TAYLOR "BIG RED" THDC-976 CONTAINER HANDLER



P = 35 k (INCLUDES 10% IMPACT)
W = 18"
L = 19.5"
q = 100 psi

NOELL SC544 STRADDLE CARRIER

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-3841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 | Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

MADE KLINSLEY WASHINGTON REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON 12/4/23

TJH	11/21/2023		
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TACOMA WA, 98401-1837

DRAWING SCALE: AS SHOWN

EB-1 PAVEMENT AND RESTROOM BUILDINGS

GENERAL NOTES AND ABBREVIATIONS

TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	
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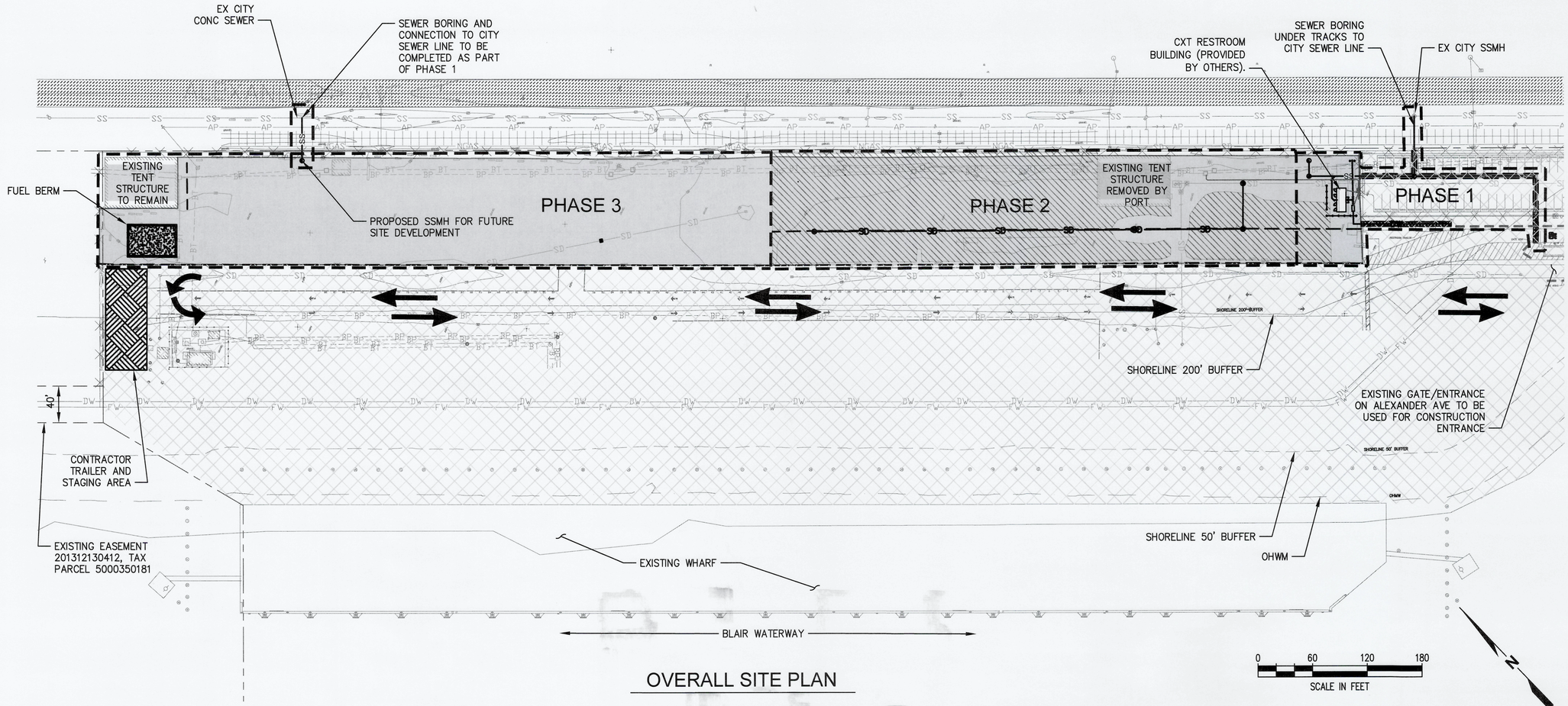
2 OF 26

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BINDING EDGE



OVERALL SITE PLAN

LEGEND

- PARCEL BOUNDARY
- SHORELINE 200' BUFFER
- SHORELINE 50' BUFFER
- OHWM
- LIMITS OF WORK / PHASE BOUNDARY
- CONTRACTOR TRAILER AND STAGING AREA
- EXISTING TERMINAL PAVEMENT
- PROPOSED PAVEMENT
- REMOVE EXISTING PAVEMENT AND REPAVE
- SS — PROPOSED SANITARY SEWER
- SD — PROPOSED STORM DRAIN
- DW — PROPOSED DOMESTIC WATER
- CONSTRUCTION ACCESS ROUTE THROUGH TERMINAL

NOTES

1. SITE PLAN INFORMATION TAKEN FROM SURVEY PERFORMED BY KPFF IN MAY AND DECEMBER 2020, AND AS-BUILT INFORMATION FROM PREVIOUS SITE PROJECTS. SEE SHEETS G1.3–G1.5.
2. ALL EXISTING FEATURES TO REMAIN UNLESS NOTED OTHERWISE.

PHASING AND SEQUENCING NOTES

1. PHASE 1 WORK SHALL CONSIST OF COMPLETION OF THE WORK WITHIN THE PHASE 1 AREA NOTED ON THE PLANS. THIS SHALL INCLUDE DEMOLITION, GRADING, PAVING, INSTALLATION OF UTILITIES AND THE RESTROOM BUILDING. FOLLOWING COMPLETION OF THE PHASE 1 WORK, THE PHASE 1 AREA SHALL BE TURNED OVER TO THE PORT FOR FULL USAGE OF THE AREA.
2. PHASE 2 WORK SHALL CONSIST OF COMPLETION OF THE WORK WITHIN THE PHASE 2 AREA NOTED ON THE PLANS. THIS SHALL INCLUDE DEMOLITION, GRADING, PAVING, AND INSTALLATION OF STORM DRAIN UTILITIES. FOLLOWING COMPLETION OF THE PHASE 2 WORK, THE PHASE 2 AREA SHALL BE TURNED OVER TO THE PORT FOR FULL USAGE OF THE AREA.
3. PHASE 3 WORK SHALL CONSIST OF COMPLETION OF THE WORK WITHIN THE PHASE 3 AREA NOTED ON THE PLANS. THIS SHALL INCLUDE DEMOLITION, GRADING, PAVING, AND INSTALLATION OF STORM DRAIN UTILITIES. FOLLOWING COMPLETION OF THE PHASE 3 WORK, THE PHASE 3 AREA SHALL BE TURNED OVER TO THE PORT FOR FULL USAGE OF THE AREA.
4. CONTRACTOR SHALL MAINTAIN DAILY COORDINATION WITH THE PORT AND TENANT, AND NOT INFRINGE ON TERMINAL ACTIVITIES.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

STATE OF WASHINGTON — ANDREW INGSLEY — 21009 — REGISTERED PROFESSIONAL ENGINEER — 12/4/23

APPROVED:
DIRECTOR/ENG. DATE

TJH	11/21/2023		
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EB-1 PAVEMENT AND RESTROOM BUILDINGS

GENERAL SITE AND PHASING PLAN

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6695

G1.2

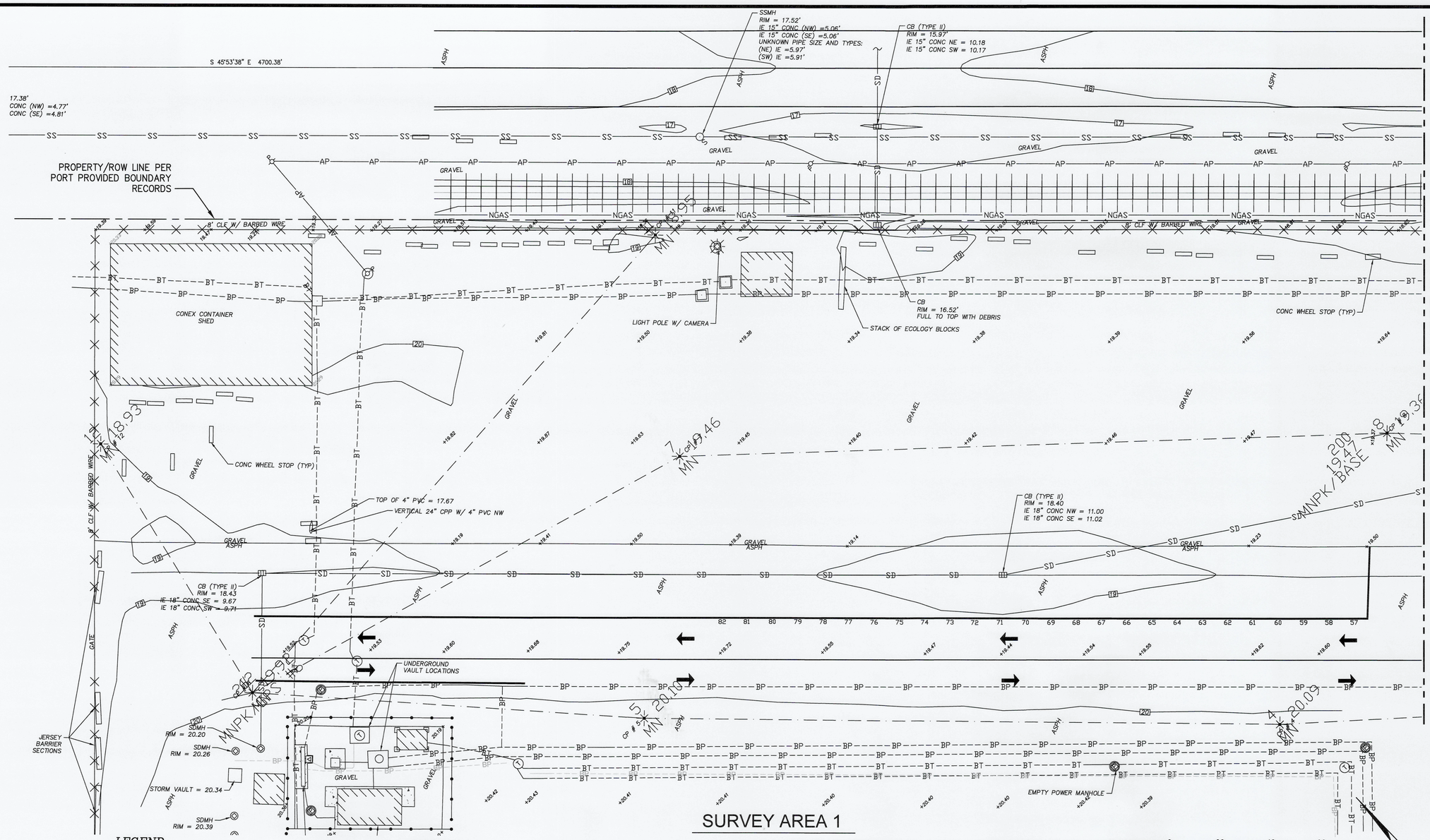
3 OF 26

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BINDING EDGE



SURVEY AREA 1

LEGEND

- FOUND MOUNUMENT
- CONTROL POINTS
- SIGN AS NOTED
- SERVICE POLE
- POWER MANHOLE
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS VAULT
- TRANSFORMER
- POWER VAULT
- LIGHT POLE
- BOLLARD
- WATER METER
- FIRE HYDRANT
- WATER VALVE
- SANITARY SEWER MAN HOLE
- STORM DRAIN MANHOLE
- CATCH BASIN
- EDGE OF PAVEMENT
- FENCE AS NOTED
- SANITARY SEWER
- STORM DRAIN
- WATER LINE
- UNDERGROUND POWER
- ABOVE GROUND POWER
- UNDERGROUND COMMUNICATIONS
- GAS LINE
- RAILROAD TRACKS
- CONCRETE HATCH
- BUILDING HATCH

BASIS OF MERIDIAN:
WASHINGTON STATE PLANE COORDINATE, NAD 83/91, SOUTH ZONE 4602, N45°53'38"W BETWEEN FOUND MONUMENTS NUMBER 119 AND 120 ON PARAMETRIX SURVEY OF THE PORT OF TACOMA WEYERHAEUSER CHIP FACILITY SHEETS 1 AND 2.

VERTICAL DATUM:
MLLW 19.39' @ TIDE 22 1933, HELD BENCHMARK # 119 ELEVATION 18.07' FROM PARAMETRIX SURVEY OF THE PORT OF TACOMA WEYERHAEUSER CHIP FACILITY, SHEETS 1 AND 2.

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ALL WORK PERFORMED DURING THE COURSE OF THIS SURVEY MEETS OR EXCEEDS THE STANDARDS AS SET FORTH IN WAC 332-130-090.

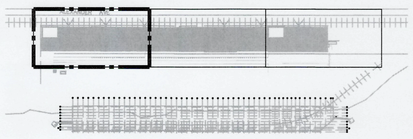
SURVEY COMPLETED IN MAY OF 2020.

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	708273.271	1173847.816	19.89	MN
2	708489.968	1173620.814	19.89	MN
3	708745.863	1173354.460	19.71	MN
4	708887.676	1173192.256	20.08	MN
5	709064.404	1173013.098	20.09	MN
6	709179.236	1172908.390	19.90	MN
7	709128.572	1173094.801	19.46	MN
202	710993.715	1171390.395	16.11	MNPK/GPS #120
208	707722.308	1174765.518	18.07	MNSB/GPS #119

JEROME F. CHAPMAN — STATE OF WASHINGTON — 45779 — REGISTERED PROFESSIONAL LAND SURVEYOR

kpff
612 Woodland Square Loop SE,
Suite 100
Lacey, WA 98503
360.292.7230
www.kpff.com

0 20 40 60
SCALE IN FEET



KEY PLAN

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

STATE OF WASHINGTON — JEROME F. CHAPMAN — 45779 — REGISTERED PROFESSIONAL LAND SURVEYOR — 12/4/23

APPROVED: Mike Ward 12/12/23
DIRECTOR ENG. DATE

TJH 11/21/2023	
CHECKED BY DATE	
SEK 11/21/2023	
PROJ. ENGR DATE	
PRINTED BY: thelbig Nov 21, 2023	
PORT ADDRESS: ONE SITCUM PLAZA	
TACOMA, WA. 98401-1837	

EB-1 PAVEMENT AND RESTROOM BUILDINGS
SURVEY AREA 1

CONT/CONS: 071907	TOWNSHIP: 21N	SECTION: 36	6695
M. ID: 201105.01	DAT-HRZ: W83-SF	RANGE: 3E	VERT: PORT OF TACOMA BM#
PHASE: BID SET	PARCEL: 0321354035	DRAWING SCALE: AS SHOWN	

G1.3
4 OF 26

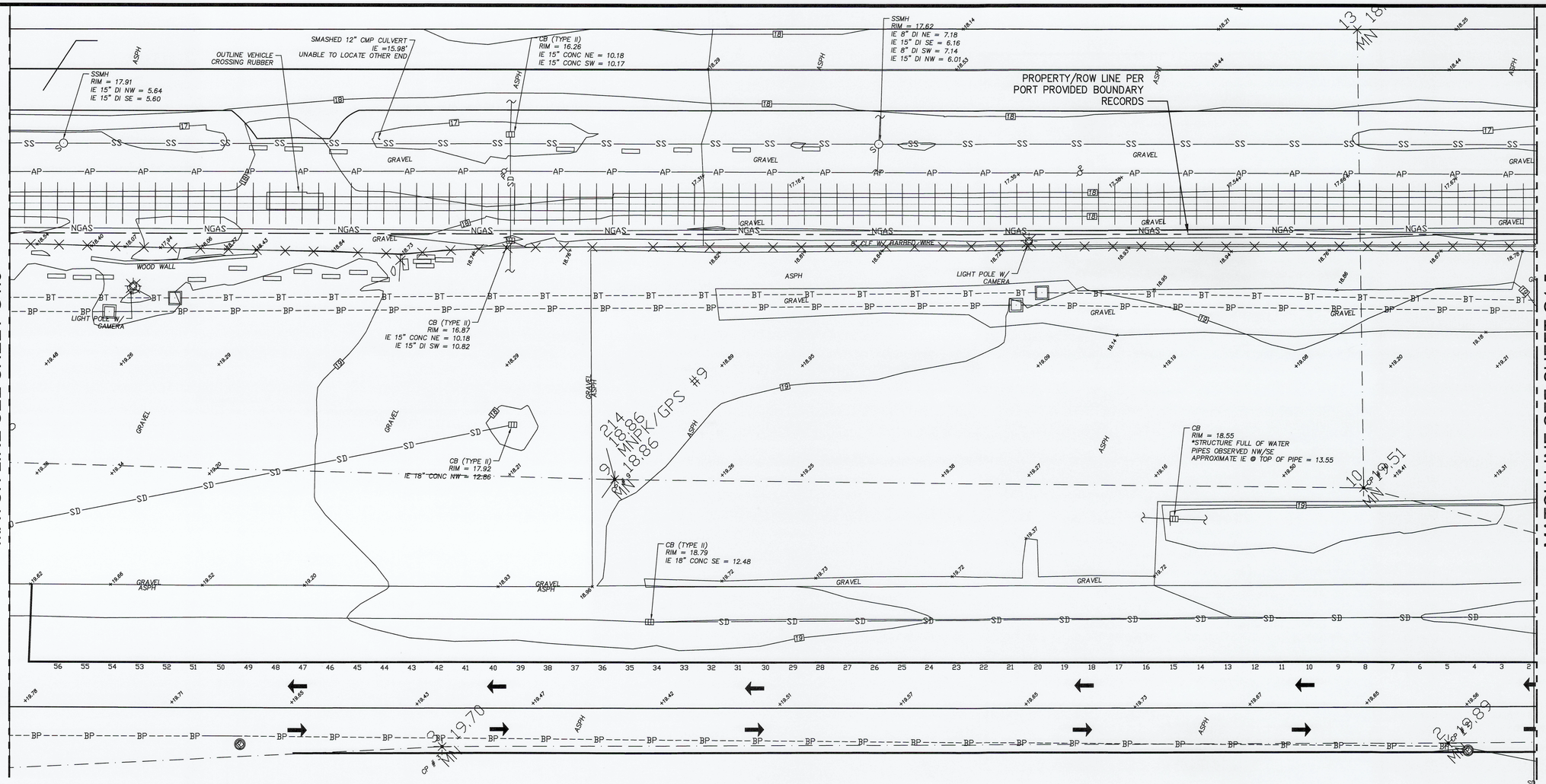
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PORT OF TACOMA FILE: X:\TAC\20\2020000070 POT EB1 Paving & Restroom\KPFF Design\Drawings\SURVEY SHEETS

BINDING EDGE

MATCH LINE SEE SHEET G1.3

MATCH LINE SEE SHEET G1.5



SURVEY AREA 2

LEGEND

- FOUND MOUNUMENT
- CONTROL POINTS
- SIGN AS NOTED
- SERVICE POLE
- POWER MANHOLE
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS VAULT
- TRANSFORMER
- POWER VAULT
- LIGHT POLE
- BOLLARD
- WATER METER
- FIRE HYDRANT
- WATER VALVE
- SANITARY SEWER MAN HOLE
- STORM DRAIN MANHOLE
- CATCH BASIN
- EDGE OF PAVEMENT
- FENCE AS NOTED
- SANITARY SEWER
- STORM DRAIN
- WATER LINE
- UNDERGROUND POWER
- ABOVE GROUND POWER
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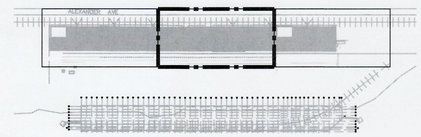
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208	707722.308	1174765.518	18.07	MNSB/GPS #119

0 20 40 60
SCALE IN FEET

JEROME F. CHAPMAN
STATE OF WASHINGTON
45770
REGISTERED
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kpff
612 Woodland Square Loop SE,
Suite 100
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KEY PLAN

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2407 North 31st Street, Suite 100
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MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED:
DIRECTOR ENG. DATE 12/6/23

PRINTED BY: thelbig Nov 21, 2023
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA WA. 98401-1837

DRAWING SCALE: AS SHOWN

TJH 11/21/2023
CHECKED BY DATE
SEK 11/21/2023
PROJ. ENGR DATE

TOWNSHIP: 21N
RANGE: 3E
SECTION: 36
DAT-HRZ: W83-SF
VERT: PORT OF TACOMA BM#
PARCEL: 0321354035
DRAWING SCALE: AS SHOWN

CONT/CONS: 071907
M. ID: 201105.01
PHASE: BID SET

6695

G1.4
5 OF 26

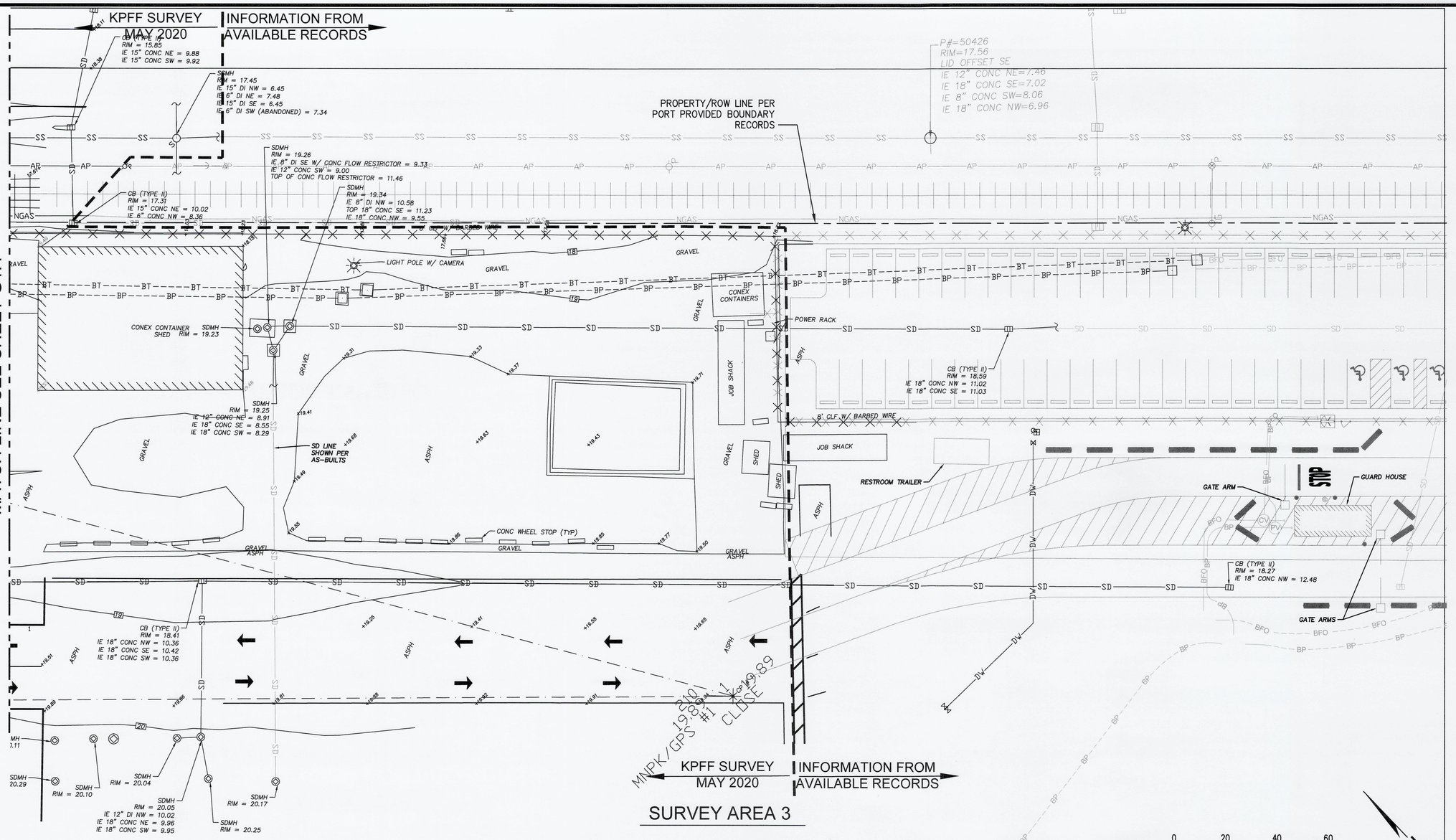
EB-1 PAVEMENT AND RESTROOM BUILDINGS
SURVEY AREA 2

12/4/23

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BINDING EDGE



LEGEND

- FOUND MOUNUMENT
- CONTROL POINTS
- SIGN AS NOTED
- SERVICE POLE
- POWER MANHOLE
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS VAULT
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MARK:	REVISION:	BY:	APPR:	DATE:

JEROME F. CHAPMAN — STATE OF WASHINGTON — 45779 — REGISTERED PROFESSIONAL LAND SURVEYOR — 12/4/23

TJH	11/21/2023	APPROVED:	
CHECKED BY	DATE	DIRECTOR ENG.	DATE
SEK	11/21/2023		12/15/23
PROJ. ENGR	DATE	PRINTED BY:	thelbig Nov 21, 2023
PORT OF TACOMA BM##		PORT ADDRESS:	ONE SITCUM PLAZA
DRAWING SCALE:	AS SHOWN		TACOMA WA, 98401-1837

EB-1 PAVEMENT AND RESTROOM BUILDINGS
SURVEY AREA 3

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E
M. ID:	201105.01	DAT-HRZ: W83-SF	VERT:
PHASE:	BID SET	PARCEL: 0321354035	

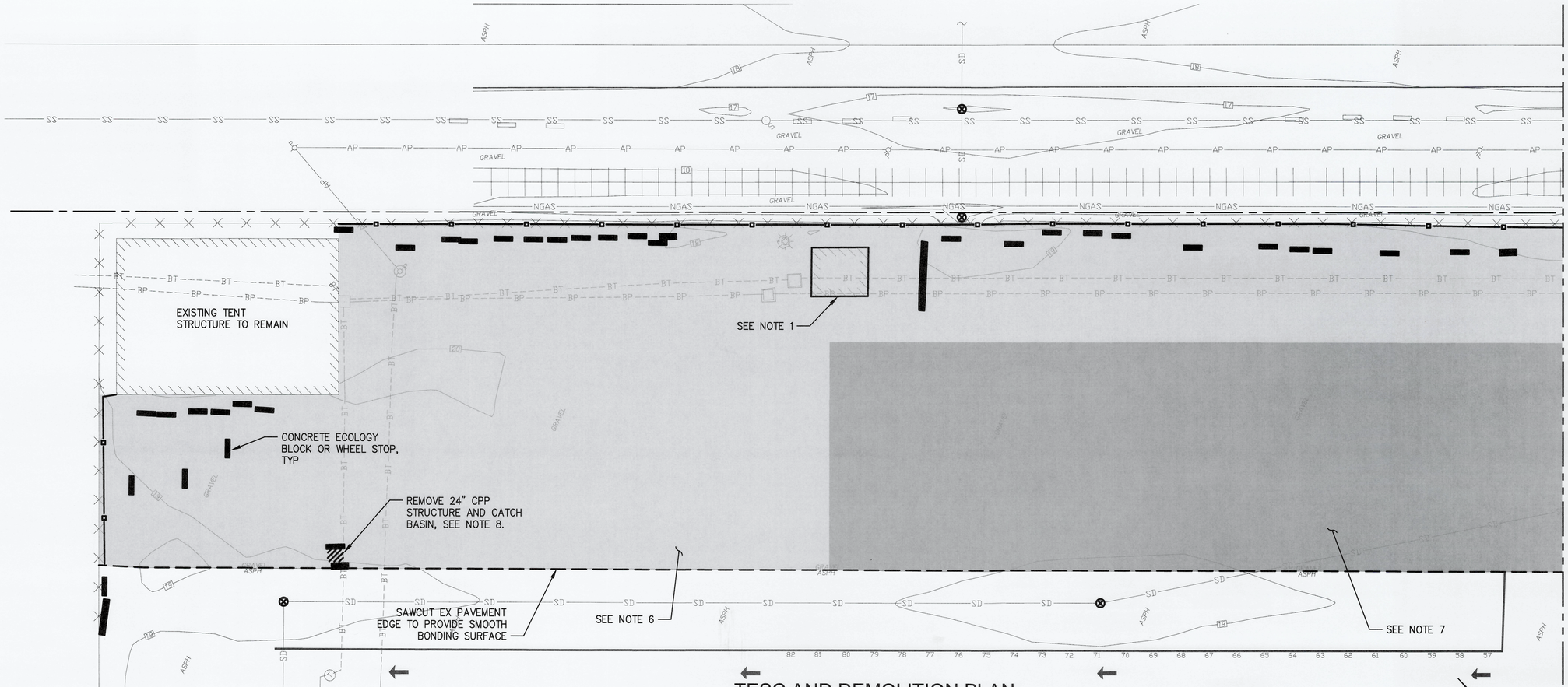
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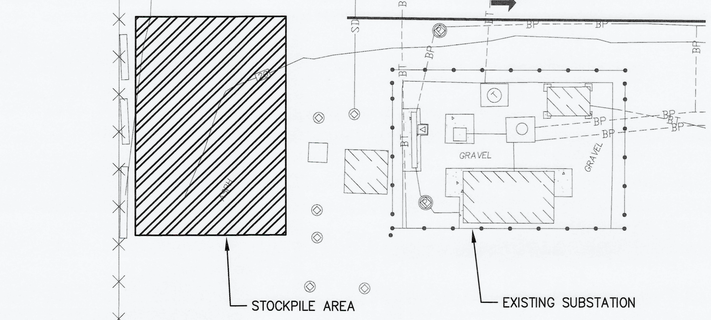
6695
G1.5
6 OF 26

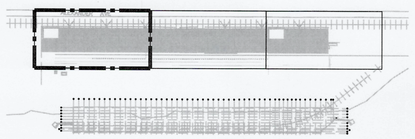
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BINDING EDGE







KEY PLAN

TESC AND DEMOLITION PLAN

LEGEND

- EX PROPERTY/ROW LINE
- REMOVE EXISTING HMA. SEE NOTE 5.
- REMOVE EXISTING CSBC MATERIAL. SEE NOTE 6.
- REMOVE EXISTING ATB AND CSBC. SEE NOTE 7.
- REMOVE EXISTING HMA. SEE C1.2 FOR HMA REPLACEMENT
- REMOVE AND STOCKPILE CONCRETE ECOLOGY BLOCK OR WHEEL STOP FOR REINSTALLATION
- CONCRETE ECOLOGY BLOCK AND WHEEL STOP STOCKPILE LOCATION
- INLET PROTECTION, SEE DETAIL 1 ON SHEET D1.3
- REMOVE UTILITY STRUCTURE
- REMOVE STORM DRAIN PIPE
- REMOVE SANITARY SEWER PIPE
- REMOVE AND RELOCATE BURIED POWER (SEE ELECTRICAL)
- REMOVE AND RELOCATE BURIED COMMUNICATIONS (SEE ELECTRICAL)
- STRAW WATTLE, SEE DETAIL 2 ON SHEET D1.3
- SAWCUT PAVEMENT

0 20 40 60
SCALE IN FEET

N

NOTES

1. STRUCTURE TO BE RELOCATED BY THE PORT.
2. ALL UTILITIES AND SITE FEATURES TO BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
3. CATCH BASIN TO BE REMOVED. NEW CATCH BASIN TO BE INSTALLED AS SHOWN ON SHEET C1.1.
4. CONTRACTOR TO LOCATE WATER LINE FROM END OF AS-BUILT PIPE TO EX TRAILERS.
5. CONTRACTOR TO ASSUME AREA CONSISTS OF 2" OF HMA OVER 2" OF CSBC MATERIAL. CONTRACTOR SHALL STOCKPILE CSBC MATERIAL FOR REUSE AS BASE MATERIAL. CONTRACTOR TO DEMOLISH HMA AND DISPOSE OFFSITE.
6. CONTRACTOR TO ASSUME AREA CONSISTS OF 4" OF CSBC MATERIAL. CONTRACTOR TO STOCKPILE CSBC MATERIAL FOR REUSE AS BASE MATERIAL.
7. CONTRACTOR TO ASSUME AREA CONSISTS OF 2" OF CSBC MATERIAL OVER 3" OF ASPHALT TREATED BASE. CONTRACTOR TO STOCKPILE CSBC MATERIAL FOR REUSE AS BASE MATERIAL. CONTRACTOR TO DEMOLISH ATB AND DISPOSE OFFSITE.
8. 24" CCP SUMP STRUCTURE AND CATCH BASIN SHALL BE REMOVED. STRUCTURES ARE NOT CONNECTED TO ANY SEWER OR STORM INFRASTRUCTURE. CONTRACTOR SHALL NOTIFY THE PORT IMMEDIATELY IF CONNECTING INFRASTRUCTURE IS DISCOVERED IN THE FIELD.

Port of Tacoma
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kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
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CONT/CONS:	071907
M. ID:	201105.01
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DAT-HRZ:	W83-SF
VERT:	PORT OF TACOMA BM#
PARCEL:	0321354035
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	12/4/23

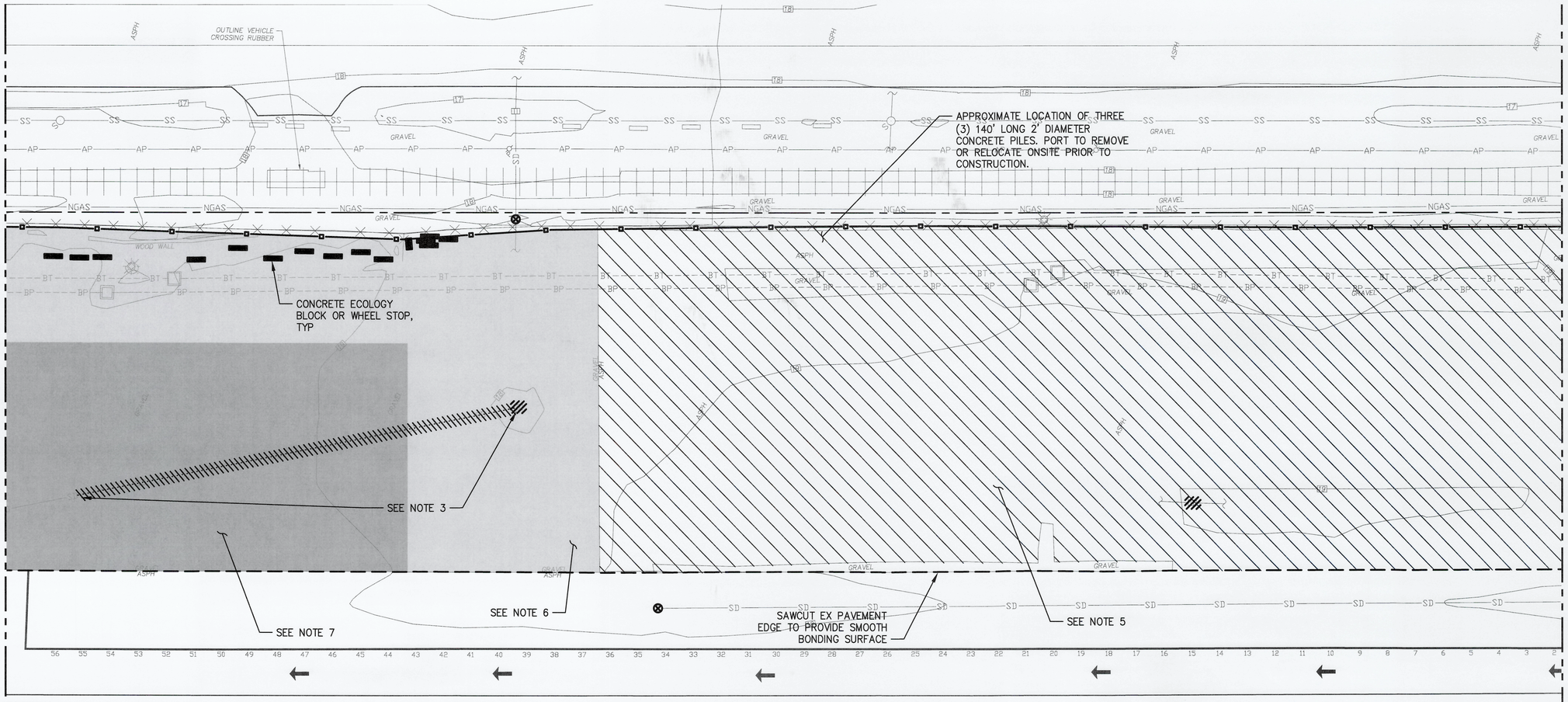
EB-1 PAVEMENT AND RESTROOM BUILDINGS
TESC AND DEMOLITION PLAN
AREA 1

6695
D1.0
7 OF 26

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BINDING EDGE



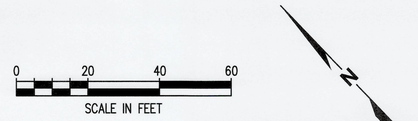
LEGEND

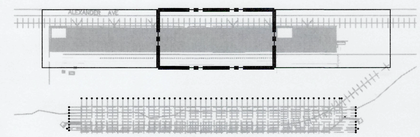
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- SAWCUT PAVEMENT

TESC AND DEMOLITION PLAN

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Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

MARK:	REVISION:	BY:	APPR:	DATE:

APPROVED: 12/5/23
DIRECTOR ENG. DATE

TJH	11/21/2023		
CHECKED BY	DATE		
SEK	11/21/2023		
PROJ. ENGR	DATE		
PRINTED BY:	thellbig Nov 21, 2023		
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA WA 98401-1837		

EB-1 PAVEMENT AND RESTROOM BUILDINGS

TESC AND DEMOLITION PLAN
AREA 2

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E
M. ID:	201105.01	DAT–HRZ: W83-SF	VERT:
PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS SHOWN

SECTION: 36
PORT OF TACOMA BM##

6695
D1.1
8 OF 26

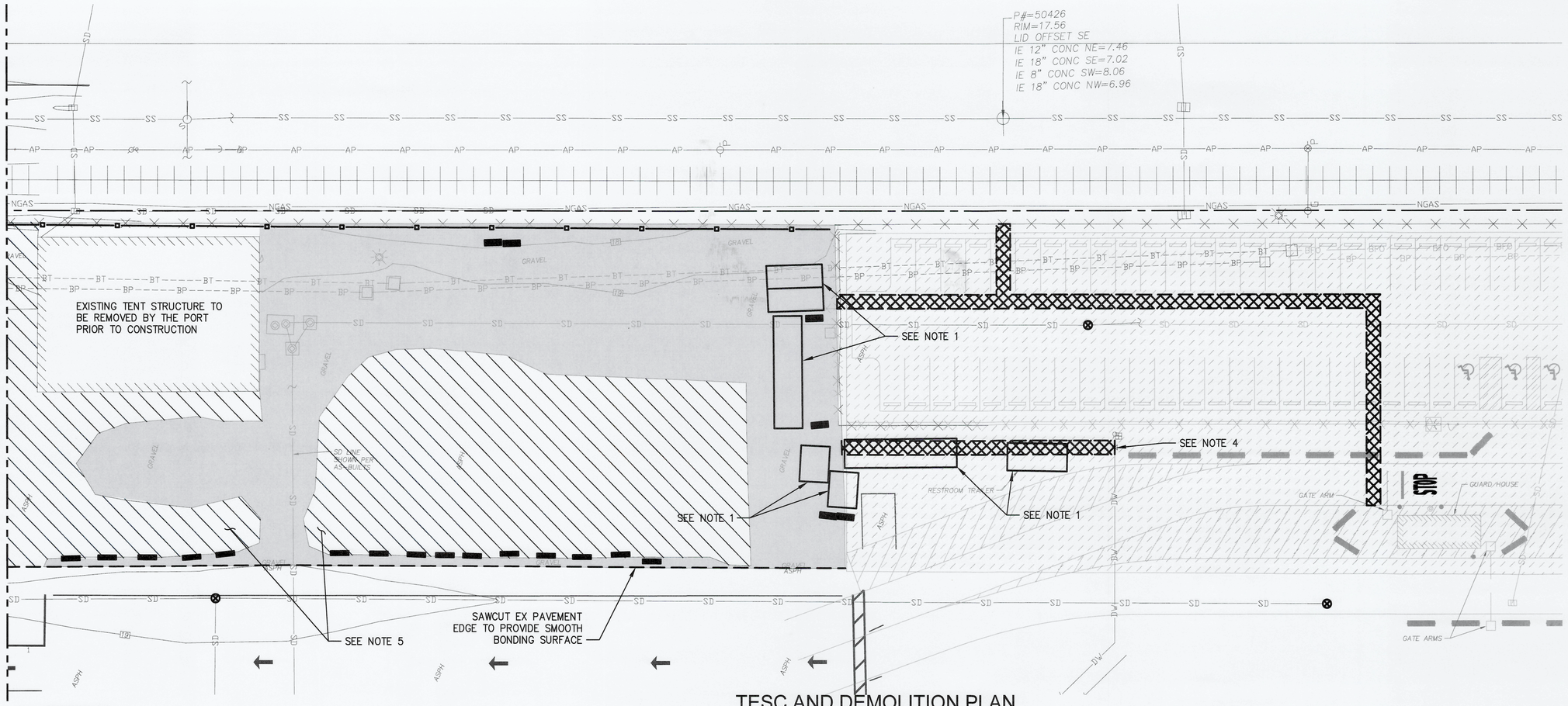
12/4/23

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BINDING EDGE

MATCH LINE SEE SHEET D1.1



TESC AND DEMOLITION PLAN

LEGEND

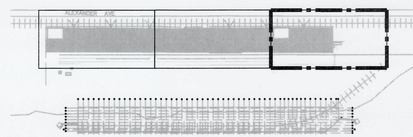
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- REMOVE EXISTING HMA. SEE NOTE 5.
- REMOVE EXISTING CSBC MATERIAL. SEE NOTE 6.
- REMOVE EXISTING ATB AND CSBC. SEE NOTE 7.
- REMOVE EXISTING HMA. SEE C1.2 FOR HMA REPLACEMENT
- REMOVE AND STOCKPILE CONCRETE ECOLOGY BLOCK OR WHEEL STOP FOR REINSTALLATION
- CONCRETE ECOLOGY BLOCK AND WHEEL STOP STOCKPILE LOCATION
- INLET PROTECTION, SEE DETAIL 1 ON SHEET D1.3
- REMOVE UTILITY STRUCTURE
- REMOVE STORM DRAIN PIPE
- REMOVE SANITARY SEWER PIPE
- REMOVE AND RELOCATE BURIED POWER (SEE ELECTRICAL)
- REMOVE AND RELOCATE BURIED COMMUNICATIONS (SEE ELECTRICAL)
- STRAW WATTLE, SEE DETAIL 2 ON SHEET D1.3
- SAWCUT PAVEMENT

NOTES

1. STRUCTURE TO BE RELOCATED BY THE PORT.
2. ALL UTILITIES AND SITE FEATURES TO BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.
3. CATCH BASIN TO BE REMOVED. NEW CATCH BASIN TO BE INSTALLED AS SHOWN ON SHEET C1.1.
4. CONTRACTOR TO LOCATE WATER LINE FROM END OF AS-BUILT PIPE TO EX TRAILERS.
5. CONTRACTOR TO ASSUME AREA CONSISTS OF 2" OF HMA OVER 2" OF CSBC MATERIAL. CONTRACTOR SHALL STOCKPILE CSBC MATERIAL FOR REUSE AS BASE MATERIAL. CONTRACTOR TO DEMOLISH HMA AND DISPOSE OFFSITE.
6. CONTRACTOR TO ASSUME AREA CONSISTS OF 4" OF CSBC MATERIAL. CONTRACTOR TO STOCKPILE CSBC MATERIAL FOR REUSE AS BASE MATERIAL.
7. CONTRACTOR TO ASSUME AREA CONSISTS OF 2" OF CSBC MATERIAL OVER 3" OF ASPHALT TREATED BASE. CONTRACTOR TO STOCKPILE CSBC MATERIAL FOR REUSE AS BASE MATERIAL. CONTRACTOR TO DEMOLISH ATB AND DISPOSE OFFSITE.
8. 24" CCP SUMP STRUCTURE AND CATCH BASIN SHALL BE REMOVED. STRUCTURES ARE NOT CONNECTED TO ANY SEWER OR STORM INFRASTRUCTURE. CONTRACTOR SHALL NOTIFY THE PORT IMMEDIATELY IF CONNECTING INFRASTRUCTURE IS DISCOVERED IN THE FIELD.

0 20 40 60
SCALE IN FEET

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KEY PLAN

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kpff
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(253) 396-0150 Fax: (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

WADE KRUESLER STATE OF WASHINGTON 22708 REGISTERED PROFESSIONAL ENGINEER
12/4/23

APPROVED:
DIRECTOR ENG. DATE

TJH	11/21/2023		
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	TACOMA WA, 98401-1837		
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EB-1 PAVEMENT AND RESTROOM BUILDINGS

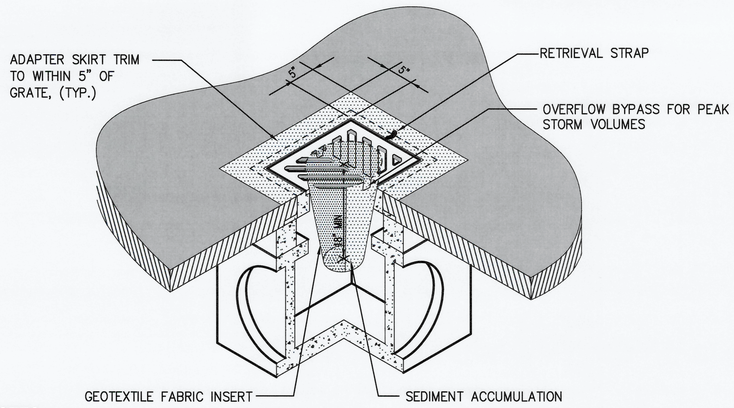
TESC AND DEMOLITION PLAN
AREA 3

TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	
VERT: PORT OF TACOMA BM##			
PARCEL: 0321354035			

6695
D1.2
9 OF 26

CONT/CONS:	071907
M. ID:	201105.01
PHASE:	BID SET

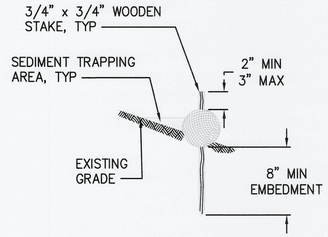
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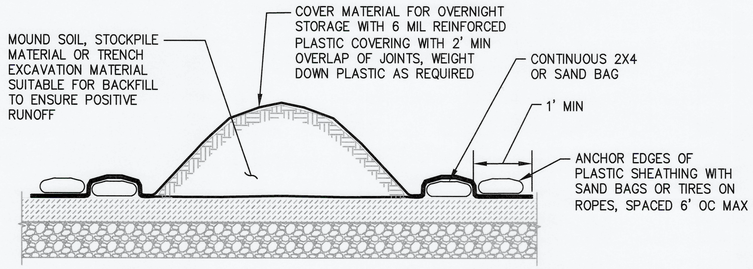
NOTES:

1. INSERT SHALL BE INSTALLED IN ALL LOCATIONS SHOWN ON THE PLANS.
2. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN IT IS 1/3 FULL.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING INTO APPROPRIATE DISPOSAL LOCATION, AND REINSERTING IT INTO THE CATCH BASIN.
4. PROVIDE INLET PROTECTION ON ALL CATCH BASINS WITHIN 500' DOWNSTREAM OF DISTURBANCE.

1 D1.0–D1.2 **INLET PROTECTION DETAIL** NTS



2 D1.0–D1.2 **STRAW WATTLE DETAIL** NTS



NOTES:

1. RIPS AND TEARS IN THE PLASTIC SHEETING SHALL BE REPAIRED IN A TIMELY MANNER.
2. SOIL, STOCKPILE MATERIAL, AND TRENCH EXCAVATION MATERIAL SUITABLE FOR BACKFILL SHALL BE STOCKPILED AT NO MORE THAN 1 TO 1 SLOPE AND THE TOE OF THE STOCKPILE SHALL BE NO CLOSER THAN 2' FROM THE EDGE OF EXCAVATION. STOCKPILES HEIGHT SHALL NOT EXCEED 10'.

3 **TEMPORARY STOCKPILE DETAIL** NTS

EROSION & SEDIMENT CONTROL NOTES:

1. THE IMPLEMENTATION OF THESE EROSION AND SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM OR ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT–LADEN WATER DO NOT LEAVE THE SITE.
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
6. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
7. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT–LADEN WATER INTO THE DOWNSTREAM SYSTEM.
8. CONTRACTOR SHALL IMPLEMENT BMP'S AS NECESSARY TO ENSURE CONSTRUCTION ROUTE THROUGH TERMINAL REMAINS FREE OF DIRT AND DEBRIS.
9. CONTRACTOR SHALL PROVIDE A 24–HOUR CONTACT PERSON (FILL–IN INFORMATION BELOW):

NAME: _____

PHONE: _____

EMAIL: _____

DEMOLITION NOTES:

1. CONTRACTOR SHALL DEMOLISH HMA AND ATB MATERIAL AND DISPOSE OFFSITE.
2. DEMOLISHED MATERIALS NOT NOTED FOR REUSE SHALL BE DISPOSED OF AT CONTRACTOR'S EXPENSE.

Port of Tacoma
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kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

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EB-1 PAVEMENT AND RESTROOM BUILDINGS

TESC AND DEMOLITION DETAILS AND NOTES

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36
M. ID:	201105.01	DAT–HRZ: W83–SF	VERT: PORT OF TACOMA BM#	
PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS SHOWN	

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D1.3

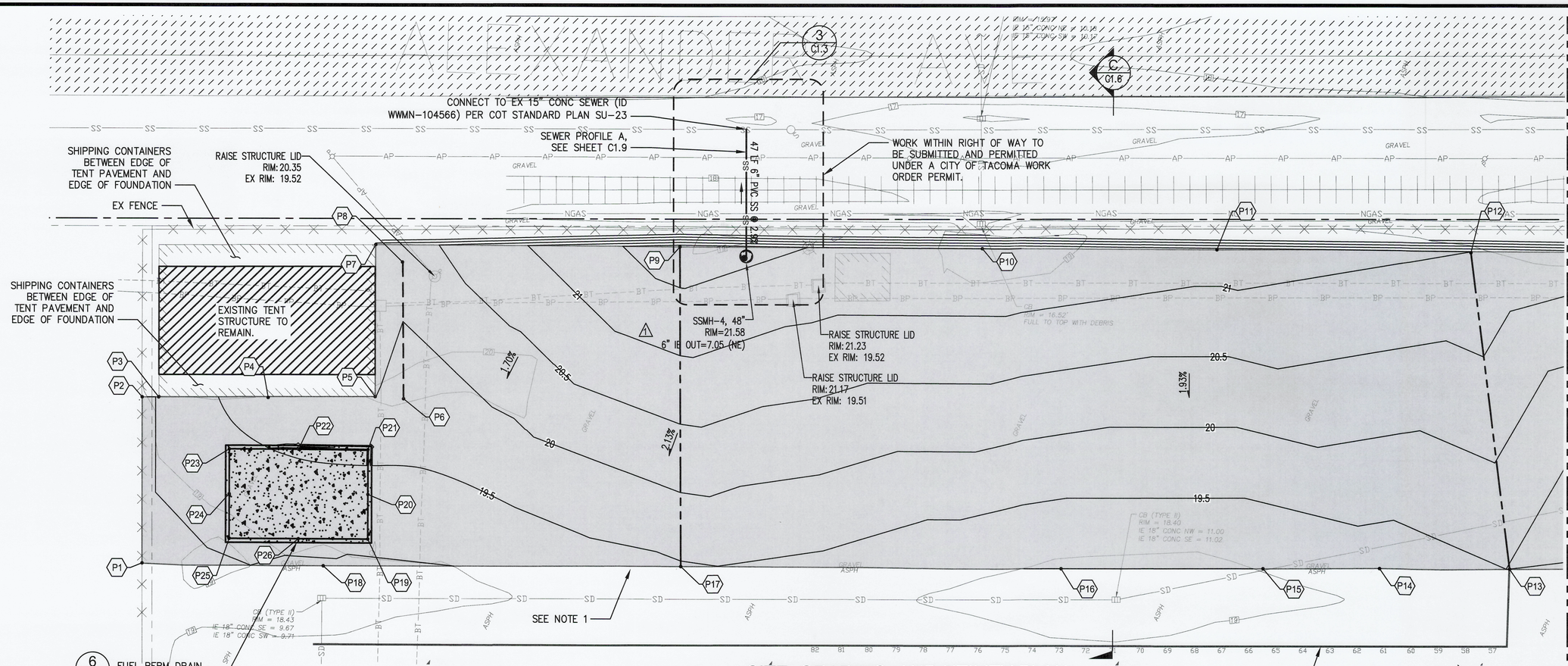
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BINDING EDGE

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BINDING EDGE



SITE, GRADING, AND UTILITY PLAN

MATCH LINE SEE SHEET C1.1

0 20 40 60
SCALE IN FEET

N

PAVING AND GRADING CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P1	709265.69	1172904.90	18.72	MATCH EX
P2	709309.41	1172947.35	18.90	MATCH EX
P3	709305.17	1172951.76	19.19	TOP CONC FND
P4	709276.83	1172980.72	19.75	TOP CONC FND
P5	709249.63	1173009.40	20.00	TOP CONC FND
P6	709241.79	1173016.40	19.80	FL
P7	709289.72	1173048.49	20.29	TOP CONC FND
P8	709278.28	1173051.14	20.15	FL
P9	709211.21	1173128.80	21.80	R, EP
P10	709133.05	1173208.64	21.50	EP
P11	709072.38	1173270.46	21.26	EP
P12	709006.37	1173337.12	20.99	R, EP
P13	708912.95	1173266.52	19.50	R, MATCH EX

PAVING AND GRADING CONTROL POINTS

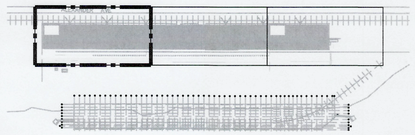
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P14	708946.47	1173232.18	19.23	MATCH EX
P15	708976.38	1173201.19	19.02	MATCH EX
P16	709028.25	1173147.62	19.00	MATCH EX
P17	709126.57	1173047.26	19.46	R, MATCH EX
P18	709218.35	1172952.37	18.90	MATCH EX
P19	709214.01	1172971.06	19.10	INTERIOR BASE CURB
P20	709225.75	1172982.52	19.15	INTERIOR BASE CURB
P21	709237.50	1172993.98	19.20	INTERIOR BASE CURB
P22	709255.42	1172975.62	19.20	INTERIOR BASE CURB
P23	709273.33	1172957.25	19.20	INTERIOR BASE CURB
P24	709261.59	1172945.79	19.15	INTERIOR BASE CURB
P25	709249.84	1172934.33	19.10	INTERIOR BASE CURB
P26	709231.92	1172952.69	19.00	INTERIOR BASE CURB

LEGEND

- EXISTING PROPERTY/ROW LINE
- PROPOSED PAVEMENT, SEE DETAIL 1 ON C1.4
- LIGHT DUTY PAVEMENT, SEE DETAIL 2 ON C1.4
- HEAVY DUTY PAVEMENT, SEE DETAIL 3 ON C1.4
- CONCRETE FUEL PAD WITH BERM, SEE DETAILS 6 AND 7 ON C1.4
- TENT STRUCTURE PAVEMENT, SEE DETAIL 9 ON C1.4
- FINISH GRADE CONTOUR
- RIDGELINE
- FLOWLINE
- SS — SANITARY SEWER
- BOLLARDS
- DW — DOMESTIC WATER
- GATE VALVE
- SD — STORM DRAIN
- ACCESSIBLE ROUTE OF TRAVEL

NOTES

1. SOUTHERN EDGE OF PAVEMENT SHALL MATCH EXISTING GRADE AND PAVEMENT.
2. SEE SHEET E1.0 FOR ELECTRICAL PLAN.
3. TYPE 1 CATCH BASINS SHALL BE INSTALLED PER WSDOT STANDARD DETAIL B-5.20-03
4. TYPE 2 CATCH BASINS SHALL BE INSTALLED PER WSDOT STANDARD DETAIL B-10.20-02
5. TENT STRUCTURE PAVEMENT SHALL MATCH PROPOSED PAVEMENT AND TOP OF TENT FOUNDATION GRADES.



KEY PLAN

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P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:
1	COT SDEV REV 1	ECM		

MARK KINSLEY HARRINGTON — STATE OF WASHINGTON — 22798 — REGISTERED PROFESSIONAL ENGINEER — 12/4/23

APPROVED:
DIRECTOR ENG. DATE 12/13/23

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EB-1 PAVEMENT AND RESTROOM BUILDINGS
SITE, GRADING, AND UTILITY PLANS
AREA 1

TOWNSHIP:	21N	SECTION:	36
RANGE:	3E		
VERT:	PORT OF TACOMA BM#		
DAT-HRZ:	W83-SF		
PARCEL:	0321354035		

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C1.0
11 OF 26

CONT/CONS:	071907
M. ID:	201105.01
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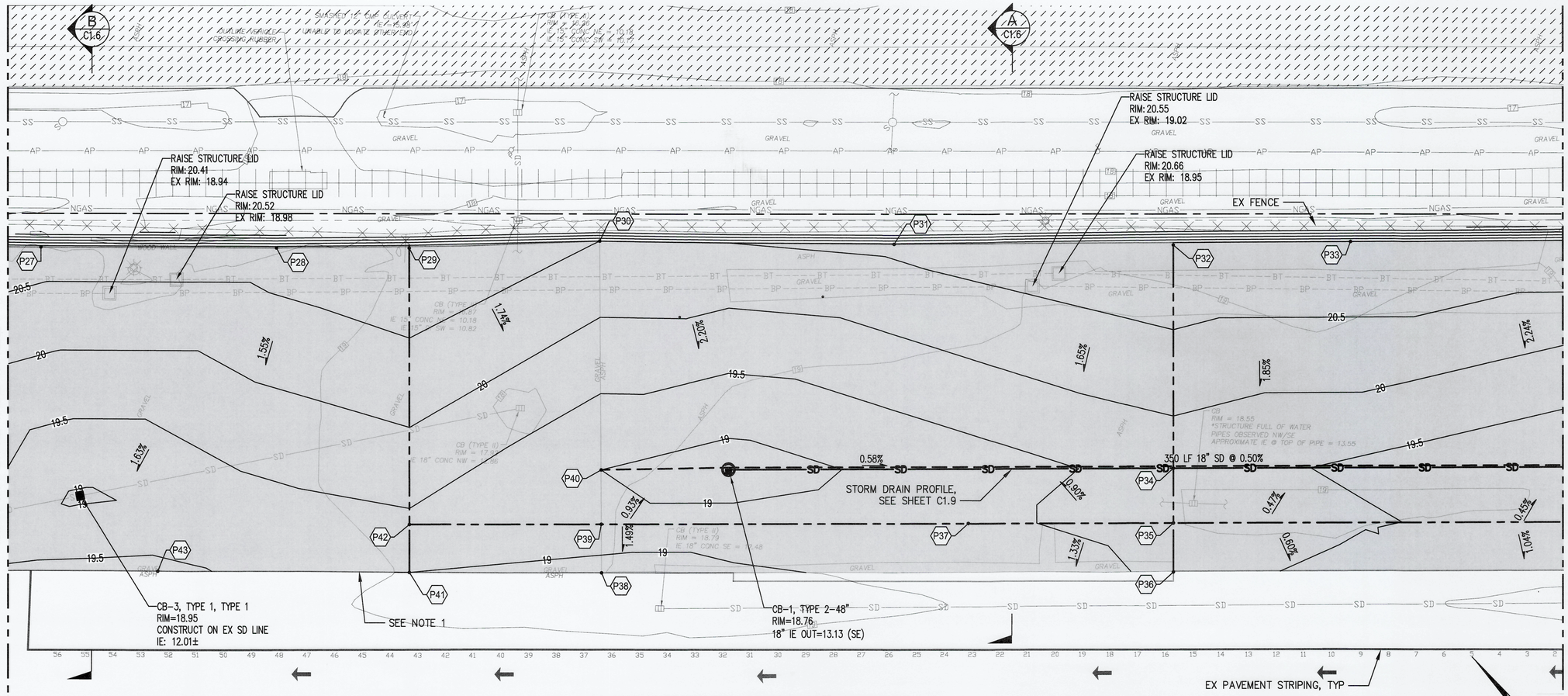
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BINDING EDGE

MATCH LINE SEE SHEET C1.0

MATCH LINE SEE SHEET C1.2



SITE, GRADING, AND UTILITY PLAN

PAVING AND GRADING CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P27	708974.00	1173370.69	20.75	EP
P28	708914.59	1173431.58	20.75	EP
P29	708881.24	1173465.97	21.00	R, EP
P30	708835.39	1173517.12	20.50	EP
P31	708760.70	1173592.65	20.60	EP
P32	708690.35	1173664.69	20.99	R, EP
P33	708646.71	1173711.47	21.00	EP
P34	708632.77	1173608.88	19.70	R
P35	708618.62	1173595.17	19.70	R
P36	708606.02	1173582.96	19.70	R
P37	708670.00	1173542.00	19.40	R
P38	708749.34	1173434.58	18.91	MATCH EX

PAVING AND GRADING CONTROL POINTS

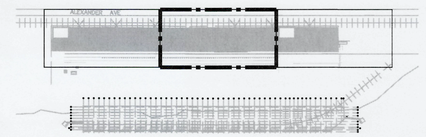
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P39	708761.90	1173446.62	19.15	R
P40	708775.97	1173460.20	19.00	FL
P41	708797.54	1173384.85	19.00	R, MATCH EX
P42	708809.89	1173396.81	19.45	R
P43	708861.04	1173319.87	19.59	MATCH EX

LEGEND

- EXISTING PROPERTY/ROW LINE
- PROPOSED PAVEMENT, SEE DETAIL 1 ON C1.4
- LIGHT DUTY PAVEMENT, SEE DETAIL 2 ON C1.4
- HEAVY DUTY PAVEMENT, SEE DETAIL 3 ON C1.4
- CONCRETE FUEL PAD WITH BERM, SEE DETAILS 6 AND 7 ON C1.4
- TENT STRUCTURE PAVEMENT, SEE DETAIL 9 ON C1.4
- FINISH GRADE CONTOUR
- RIDGELINE
- FLOWLINE
- SANITARY SEWER
- BOLLARDS
- DOMESTIC WATER
- GATE VALVE
- STORM DRAIN
- ACCESSIBLE ROUTE OF TRAVEL

NOTES

1. SOUTHERN EDGE OF PAVEMENT SHALL MATCH EXISTING GRADE AND PAVEMENT.
2. SEE SHEET E1.0 FOR ELECTRICAL PLAN.
3. TYPE 1 CATCH BASINS SHALL BE INSTALLED PER WSDOT STANDARD DETAIL B-5.20-03
4. TYPE 2 CATCH BASINS SHALL BE INSTALLED PER WSDOT STANDARD DETAIL B-10.20-02
5. TENT STRUCTURE PAVEMENT SHALL MATCH PROPOSED PAVEMENT AND TOP OF TENT FOUNDATION GRADES.



KEY PLAN

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

WAYNE KLINGLER
STATE OF WASHINGTON
20798
REGISTERED PROFESSIONAL ENGINEER
12/4/23

APPROVED:
DIRECTOR ENG. DATE

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PARCEL: 0321354035			

EB-1 PAVEMENT AND RESTROOM BUILDINGS

SITE, GRADING, AND UTILITY PLANS
AREA 2

6695

C1.1
12 OF 26

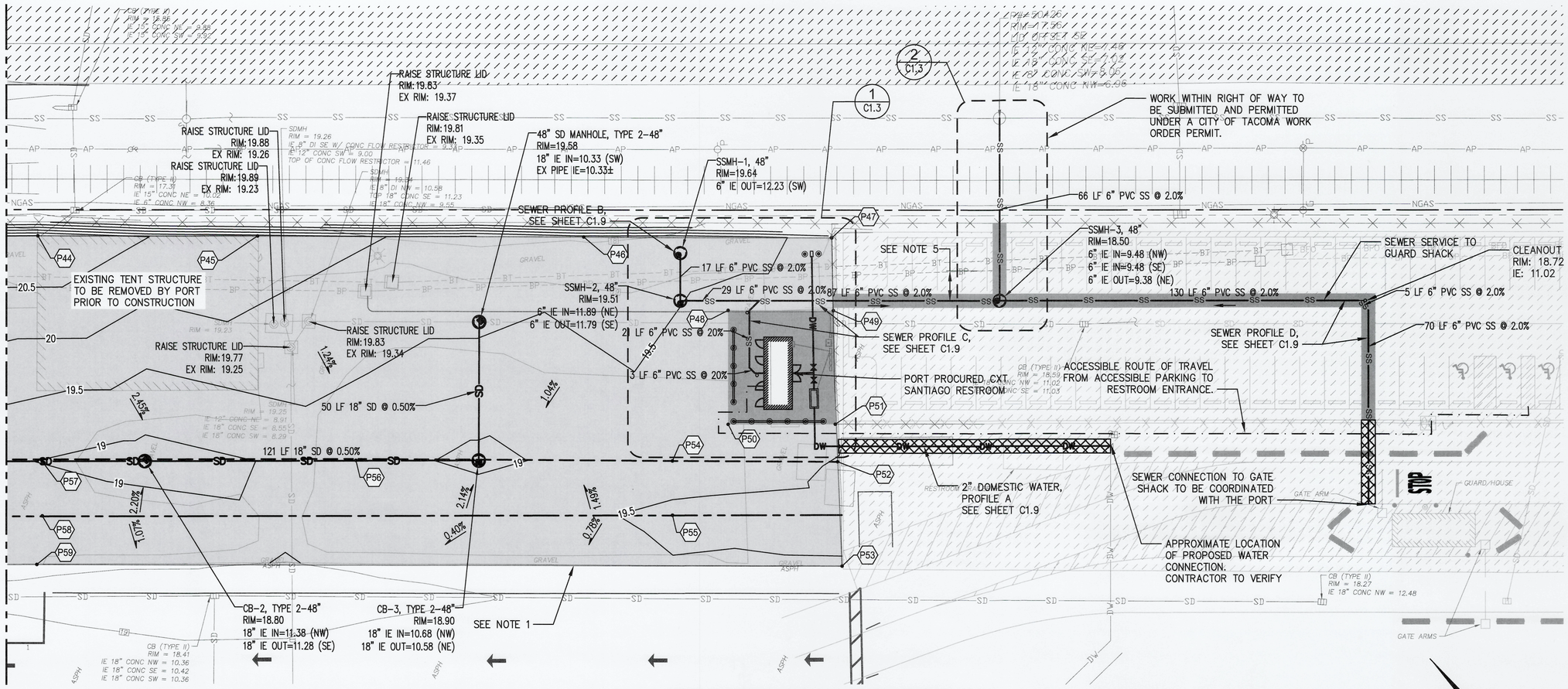
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BINDING EDGE

MATCH LINE SEE SHEET C1.1



SITE, GRADING, AND UTILITY PLAN

0 20 40 60
SCALE IN FEET

N

PAVING AND GRADING CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P44	708586.60	1173774.25	21.00	EP
P45	708531.18	1173831.30	20.16	EP
P46	708448.86	1173915.82	19.70	EP
P47	708386.31	1173980.00	19.15	EP
P48	708393.70	1173934.94	19.40	LT PVMT BNDRY
P49	708367.13	1173962.20	19.34	EP, LT PVMT BNDRY
P50	708364.18	1173906.32	19.40	LT PVMT BNDRY
P51	708337.23	1173934.19	19.36	EP. LT PVMT BNDRY
P52	708326.90	1173925.35	19.52	MATCH EX
P53	708298.84	1173900.41	19.46	MATCH EX
P54	708368.70	1173882.65	19.30	FL
P55	708354.64	1173869.07	19.58	RL

PAVING AND GRADING CONTROL POINTS

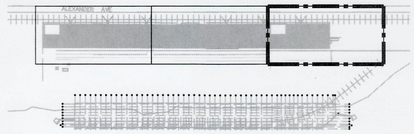
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
P56	708448.38	1173800.56	19.18	FL
P57	708526.98	1173718.63	18.99	FL
P58	708512.91	1173705.05	19.34	R
P59	708501.76	1173691.51	19.15	MATCH EX

LEGEND

- EXISTING PROPERTY/ROW LINE
- PROPOSED PAVEMENT, SEE DETAIL 1 ON C1.4
- LIGHT DUTY PAVEMENT, SEE DETAIL 2 ON C1.4
- HEAVY DUTY PAVEMENT, SEE DETAIL 3 ON C1.4
- CONCRETE FUEL PAD WITH BERM, SEE DETAILS 6 AND 7 ON C1.4
- TENT STRUCTURE PAVEMENT, SEE DETAIL 9 ON C1.4
- FINISH GRADE CONTOUR
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- GATE VALVE
- STORM DRAIN
- ACCESSIBLE ROUTE OF TRAVEL

NOTES

1. SOUTHERN EDGE OF PAVEMENT SHALL MATCH EXISTING GRADE AND PAVEMENT.
2. SEE SHEET E1.0 FOR ELECTRICAL PLAN.
3. TYPE 1 CATCH BASINS SHALL BE INSTALLED PER WSDOT STANDARD DETAIL B-5.20-03
4. TYPE 2 CATCH BASINS SHALL BE INSTALLED PER WSDOT STANDARD DETAIL B-10.20-02
5. LIMITED DISTANCE BETWEEN STORM DRAIN LINE AND BURIED POWER. CONTRACTOR TO LOCATE JACKING PIT TO NOT IMPACT BURIED POWER. TEMPORARY REMOVAL AND REPLACEMENT OF STORM DRAIN WILL BE PERMITTED OR CONTRACTOR MAY LOCATE JACKING PIT SOUTH OF STORM DRAIN TO AVOID IMPACT TO STORM DRAIN LINE.



KEY PLAN

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
2407 North 31st Street, Suite 100
Tacoma, Washington 98407
(253) 396-0150 Fax (253) 396-0162

MARK:	REVISION:	BY:	APPR:	DATE:

WADE KINGSLEY SEVERSON STATE OF WASHINGTON 22009 REGISTERED PROFESSIONAL ENGINEER 12/4/23

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TACOMA WA

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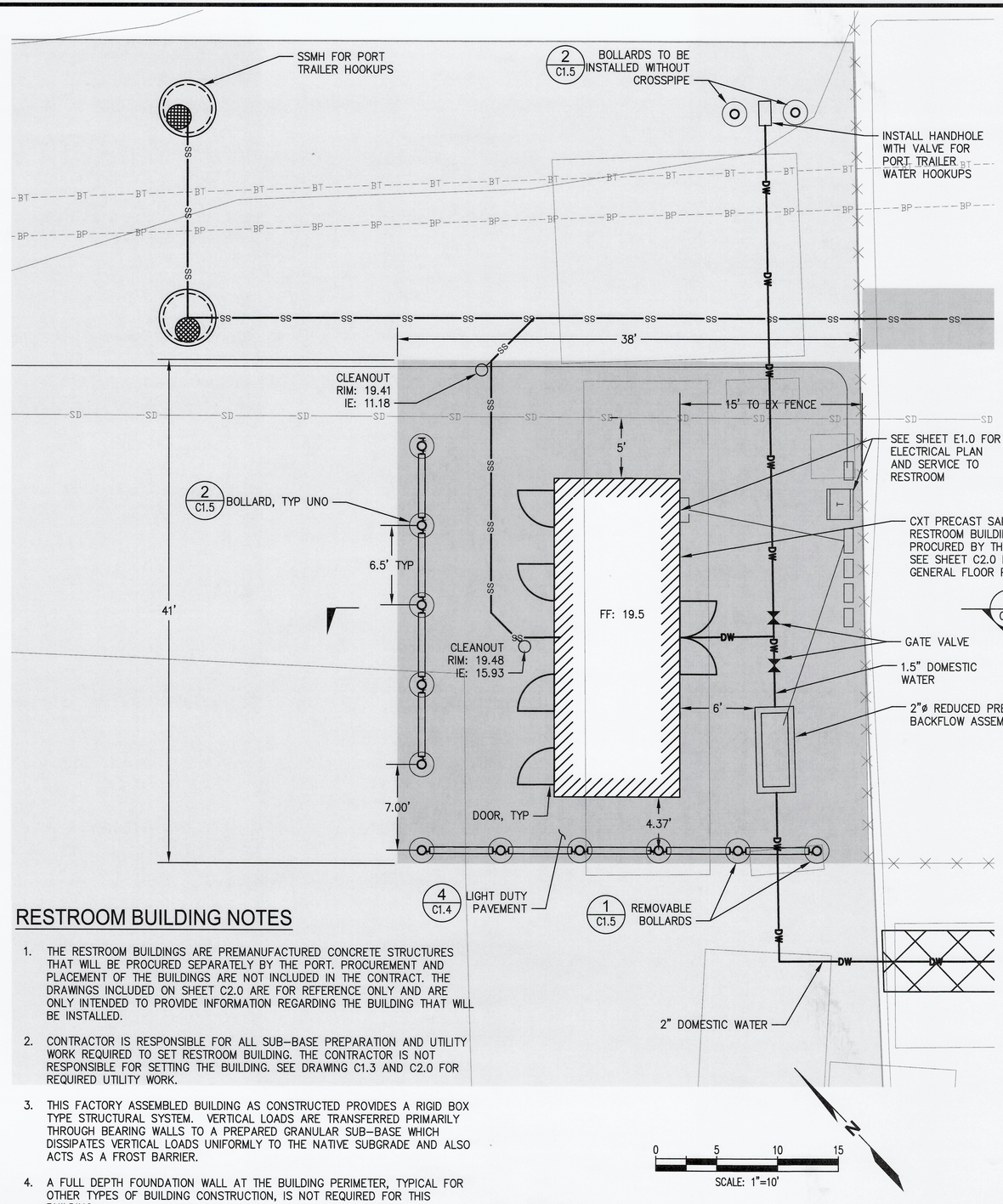
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PARCEL: 0321354035

EB-1 PAVEMENT AND RESTROOM BUILDINGS

SITE, GRADING, AND UTILITY PLANS
AREA 3

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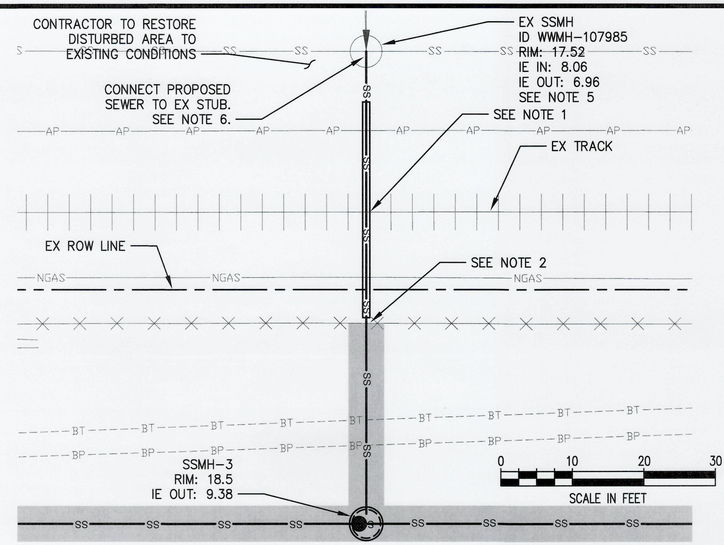
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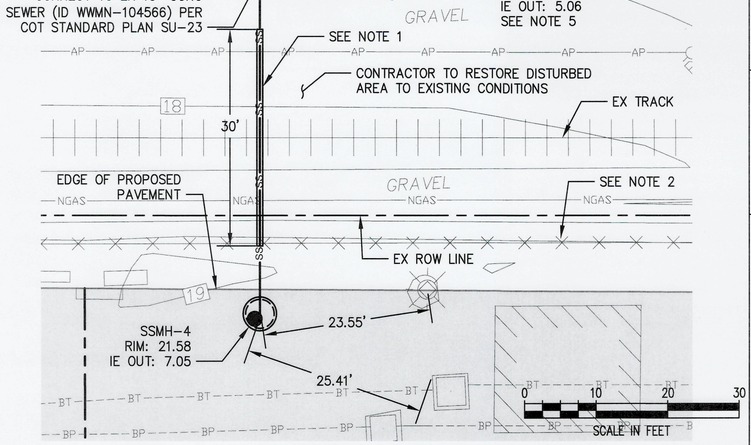
1 C1.3 RESTROOM BUILDING ENLARGED PLAN
SCALE: 1"=5'

RESTROOM BUILDING NOTES

1. THE RESTROOM BUILDINGS ARE PREMANUFACTURED CONCRETE STRUCTURES THAT WILL BE PROCURED SEPARATELY BY THE PORT. PROCUREMENT AND PLACEMENT OF THE BUILDINGS ARE NOT INCLUDED IN THE CONTRACT. THE DRAWINGS INCLUDED ON SHEET C2.0 ARE FOR REFERENCE ONLY AND ARE ONLY INTENDED TO PROVIDE INFORMATION REGARDING THE BUILDING THAT WILL BE INSTALLED.
2. CONTRACTOR IS RESPONSIBLE FOR ALL SUB-BASE PREPARATION AND UTILITY WORK REQUIRED TO SET RESTROOM BUILDING. THE CONTRACTOR IS NOT RESPONSIBLE FOR SETTING THE BUILDING. SEE DRAWING C1.3 AND C2.0 FOR REQUIRED UTILITY WORK.
3. THIS FACTORY ASSEMBLED BUILDING AS CONSTRUCTED PROVIDES A RIGID BOX TYPE STRUCTURAL SYSTEM. VERTICAL LOADS ARE TRANSFERRED PRIMARILY THROUGH BEARING WALLS TO A PREPARED GRANULAR SUB-BASE WHICH DISSIPATES VERTICAL LOADS UNIFORMLY TO THE NATIVE SUBGRADE AND ALSO ACTS AS A FROST BARRIER.
4. A FULL DEPTH FOUNDATION WALL AT THE BUILDING PERIMETER, TYPICAL FOR OTHER TYPES OF BUILDING CONSTRUCTION, IS NOT REQUIRED FOR THIS BUILDING.



2 C1.2 SOUTH SEWER ROW WORK PLAN
SCALE: 1"=10'



3 C1.0 NORTH SEWER ROW WORK PLAN
SCALE: 1"=10'

SEWER ROW WORK NOTES

1. CONTRACTOR TO JACK AND BORE UNDERNEATH EXISTING TRACK TO INSTALL 6 INCH SEWER LINE WITH 10" CASING PER DETAIL 3 ON SHEET C1.8.
2. CONTRACTOR TO REMOVE AND REPLACE EXISTING CHAIN LINK FENCE AS NECESSARY TO INSTALL SEWER PIPE.
3. CONTRACTOR TO SUBMIT A BORING AND JACKING PLAN TO BE APPROVED BY THE ENGINEER AND TACOMA RAIL PRIOR TO BEGINNING WORK.
4. CONTRACTOR SHALL COORDINATE ALL SCHEDULING AND SEQUENCING OF WORK WITHIN THE CITY ROW WITH TACOMA RAIL AND THE CITY OF TACOMA.
5. CONTRACTOR SHALL PROVIDE DEWATERING SYSTEMS AS REQUIRED DURING PIPE INSTALLATIONS.
6. CONNECTION OF PROPOSED 6" SEWER TO EXISTING 8" STUB SHALL BE CONSTRUCTED USING A FERNCO, ROMAC, OR APPROVED EQUAL WATERTIGHT ADAPTER COUPLING.

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EB-1 PAVEMENT AND RESTROOM BUILDINGS

RESTROOM BUILDING AND SEWER ROW WORK ENLARGED PLAN

TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	
DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM##		
PARCEL: 0321354035	DRAWING SCALE: AS SHOWN		

6695

C1.3

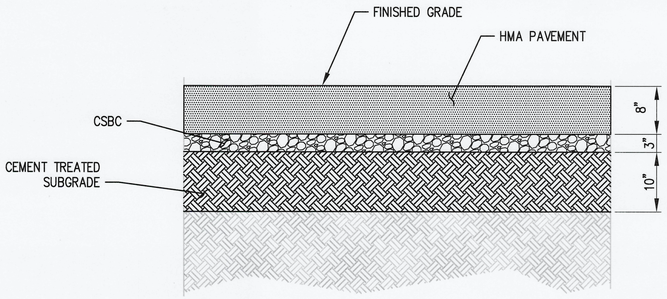
14 OF 26

CONT/CONS:	071907
M. ID:	201105.01
PHASE:	BID SET

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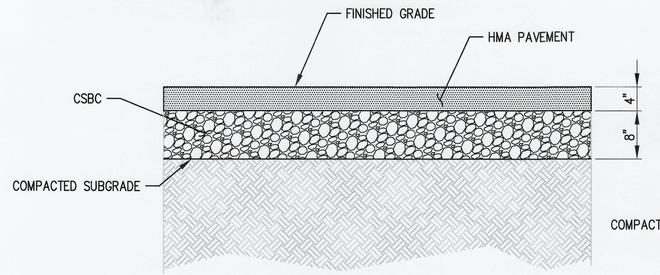
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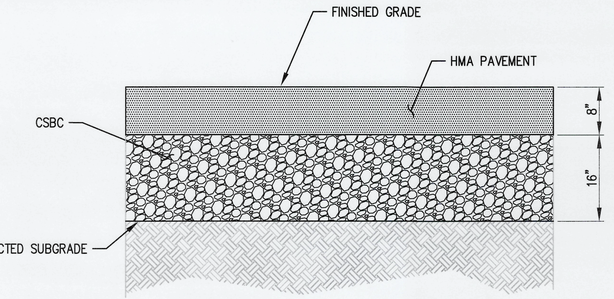
1 STANDARD HMA PAVEMENT

C1.0, C1.1, C1.2, C1.3 SCALE: 1"=1'



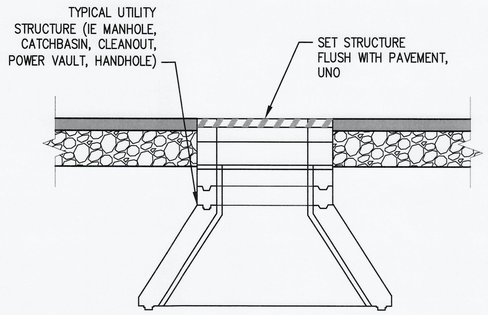
2 LIGHT DUTY HMA PAVEMENT

C1.2, C1.3 SCALE: 1"=1'



3 HEAVY DUTY HMA PAVEMENT

C1.2, C1.3 SCALE: 1"=1'

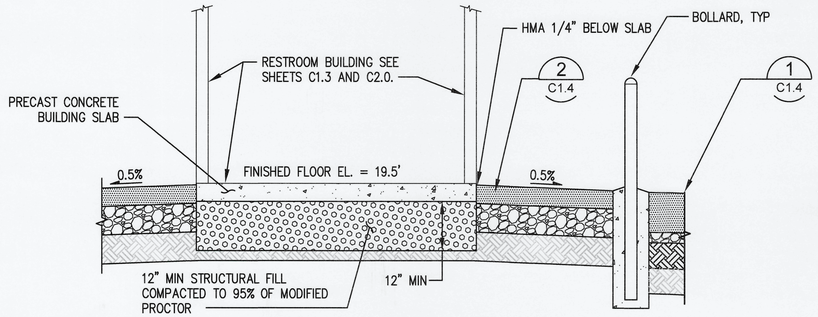


NOTES

1. CONTRACTOR TO REMOVE LID, ADD CONCRETE RISER RINGS, THEN REPLACE LID.

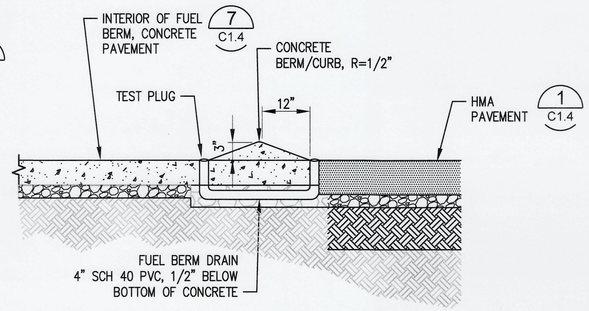
4 STRUCTURE LID ADJUSTMENT

C1.0, C1.2, C1.3 NTS



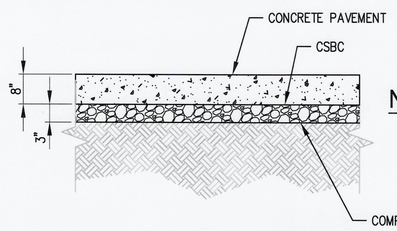
RESTROOM BUILDING GRADING SECTION

5 C1.3 NTS



6 FUEL BERM

C1.0, C1.4 NTS

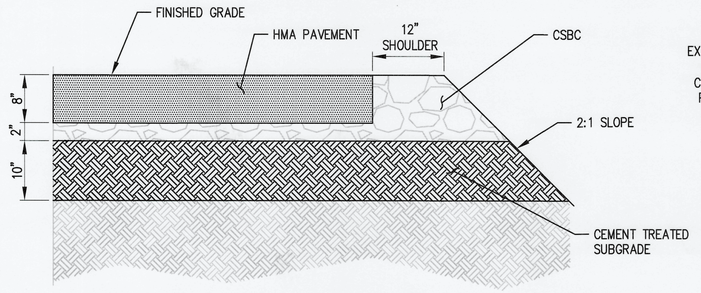


NOTES

1. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD PLAN A-40.10-03.

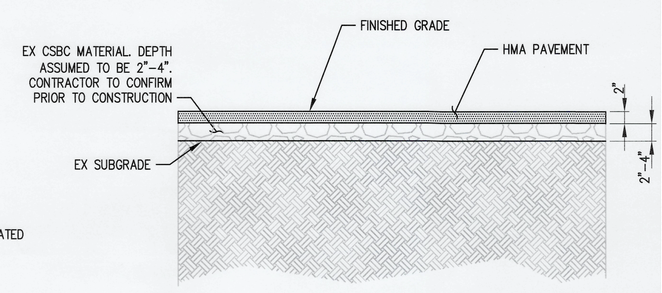
7 CONCRETE PAVEMENT

C1.0, C1.4 SCALE: 1"=1'



8 PAVEMENT SHOULDER DETAIL

C1.6 SCALE: 1"=1'



TENT STRUCTURE HMA PAVEMENT

9 C1.0 SCALE: 1"=1'

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kpff
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DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM##		
PARCEL: 0321394035	DRAWING SCALE: AS SHOWN		
CONT/CONS: 071907			
M. ID: 2011105.01			
PHASE: BID SET			

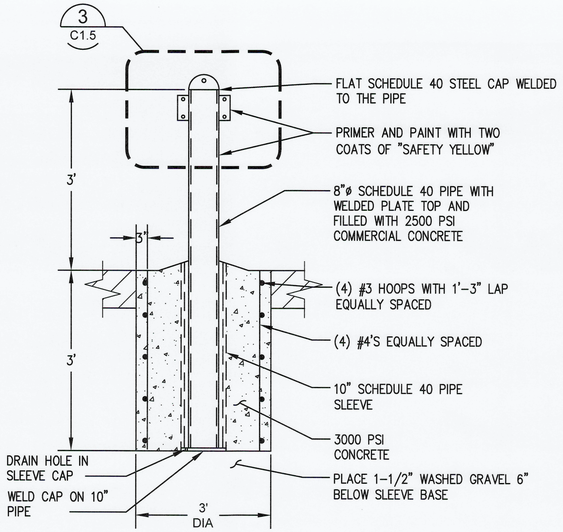
EB-1 PAVEMENT AND RESTROOM BUILDINGS

GRADING AND PAVING DETAILS

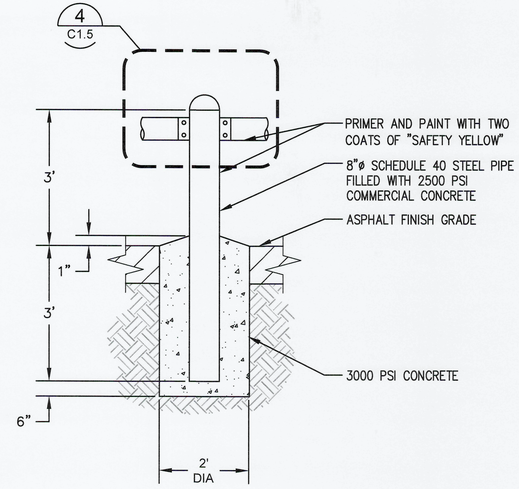
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C1.4

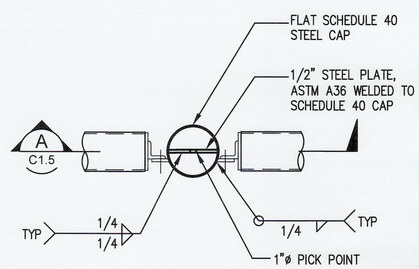
15 OF 26

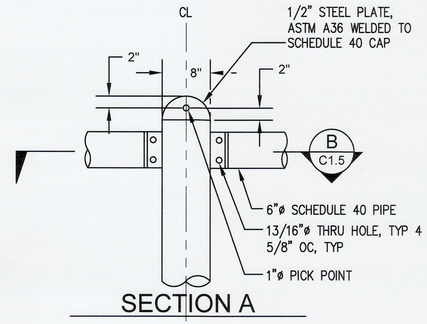


1 C1.3 REMOVABLE TRAFFIC BOLLARD WITH BOLTED GUARD RAIL
NTS

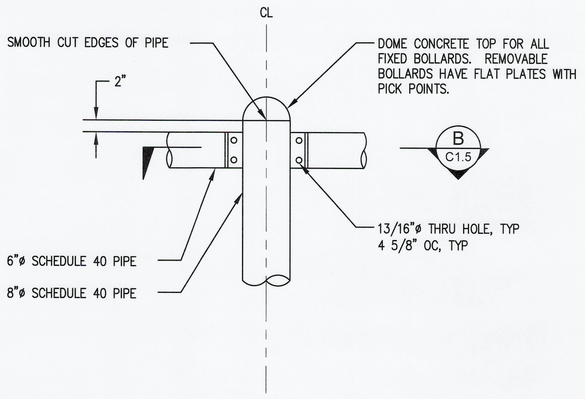


2 C1.3 3' FIXED TRAFFIC BOLLARD WITH BOLTED GUARD RAIL
NTS

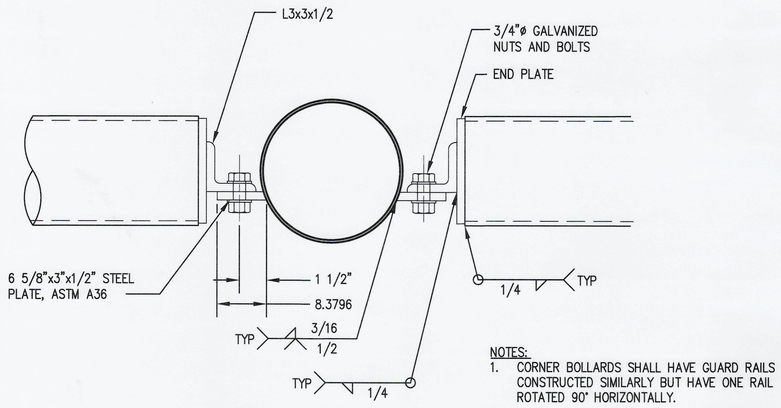




3 C1.3 REMOVABLE BOLLARD CAP
NTS



4 C1.5 BOLTED GUARD RAIL
NTS



NOTES:
1. CORNER BOLLARDS SHALL HAVE GUARD RAILS CONSTRUCTED SIMILARLY BUT HAVE ONE RAIL ROTATED 90° HORIZONTALLY.

B C1.5 BOLTED GUARD RAIL SECTION
NTS

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C1.5

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EB-1 PAVEMENT AND RESTROOM BUILDINGS

SITE FEATURE DETAILS

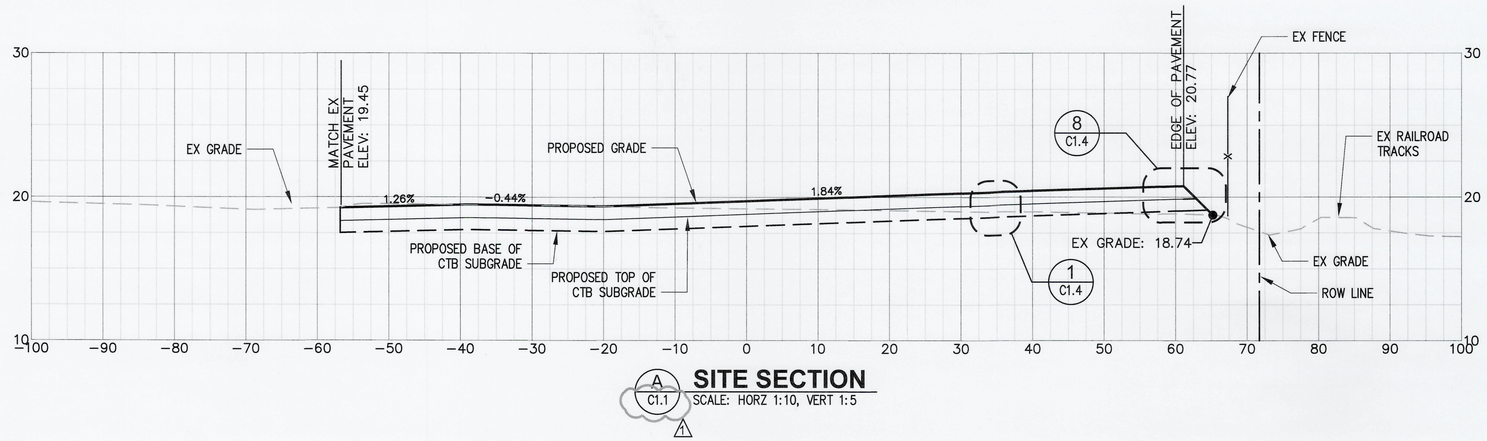
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M. ID:	201105.01	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#
PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS SHOWN

SECTION: 36

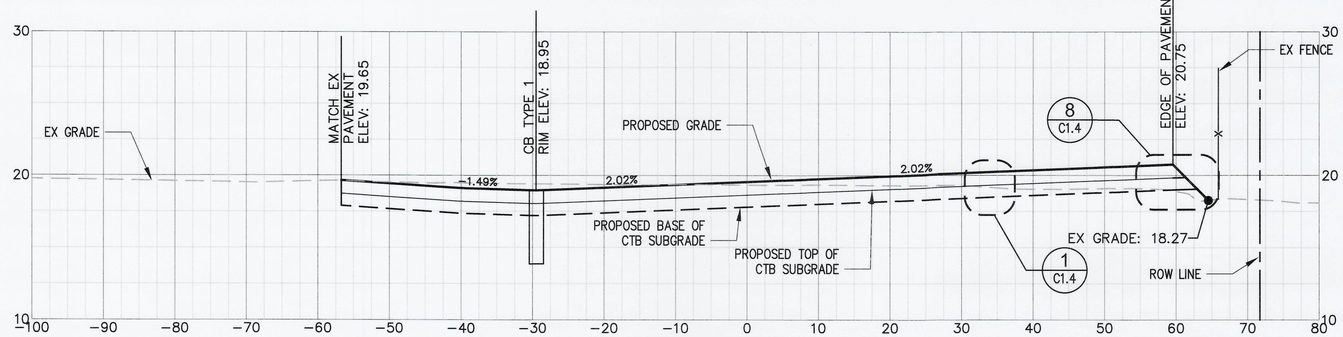
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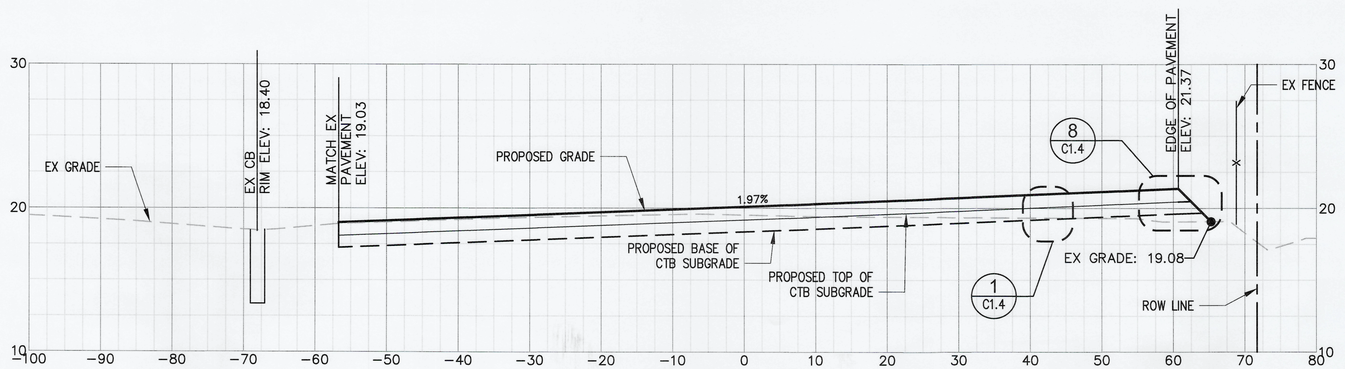
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A C1.1 **SITE SECTION**
SCALE: HORZ 1:10, VERT 1:5



B C1.1 **SITE SECTION**
SCALE: HORZ 1:10, VERT 1:5



C C1.0 **SITE SECTION**
SCALE: HORZ 1:10, VERT 1:5

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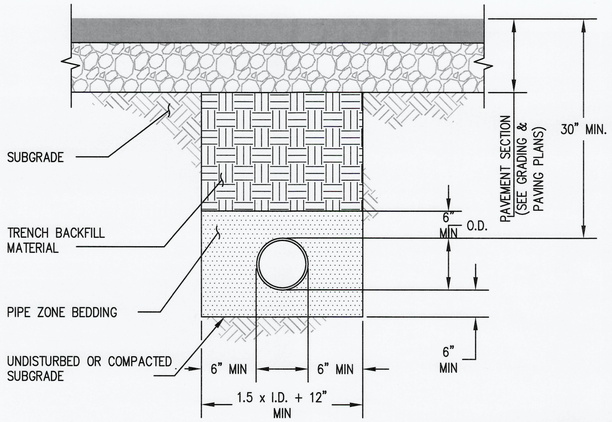
C1.6
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EB-1 PAVEMENT AND RESTROOM BUILDINGS
SITE SECTIONS

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E
M. ID:	201105.01	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM##
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SECTION: 36

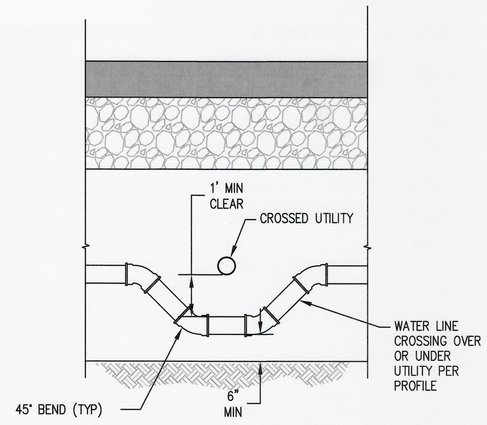
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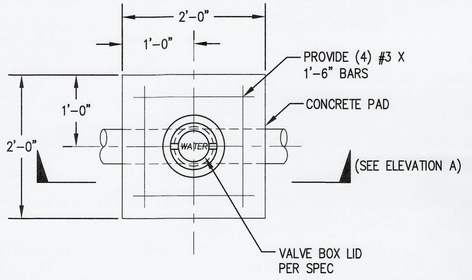
NOTES:

1. CONTRACTOR SHALL PROVIDE DEWATERING SYSTEMS AS REQUIRED DURING PIPE INSTALLATIONS.
2. SEWER PIPE WITHIN THE CITY ROW SHALL BE INSTALLED PER CITY OF TACOMA SU-16. SEE WO DRAWINGS FOR SEWER INSTALLATION WITHIN THE CITY ROW.

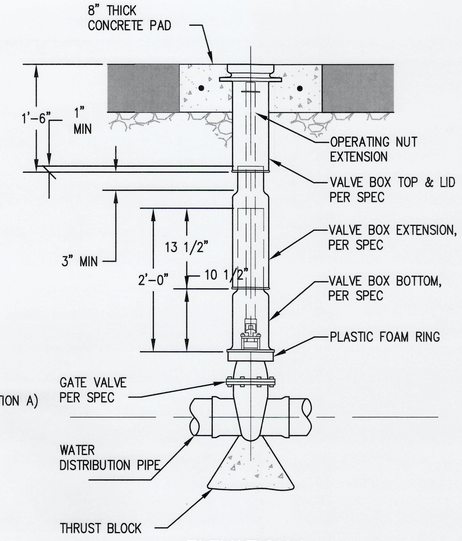
1 WATER AND SEWER PIPE BEDDING
C1.7 NTS



2 UTILITY CROSSING
C1.7 NTS

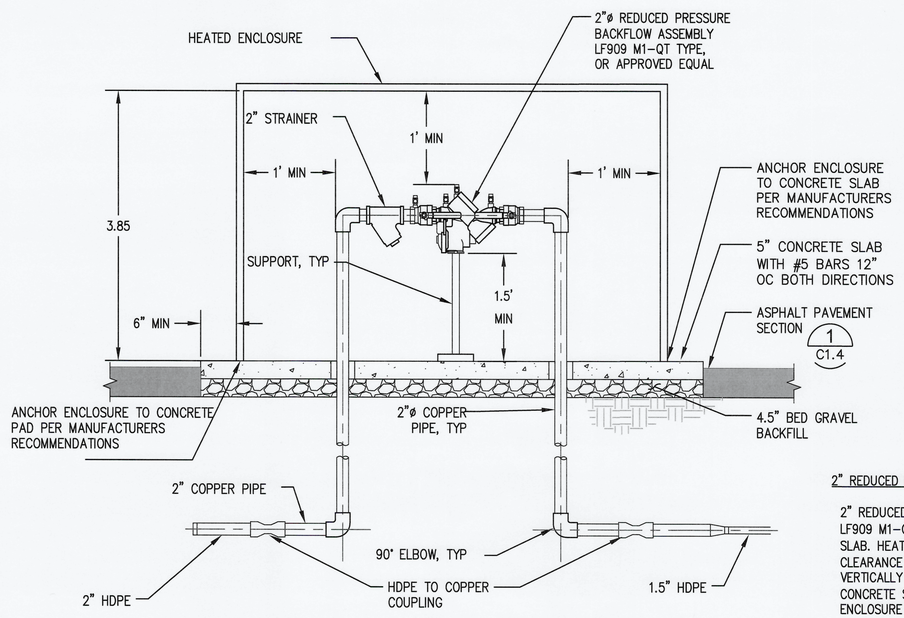


PLAN

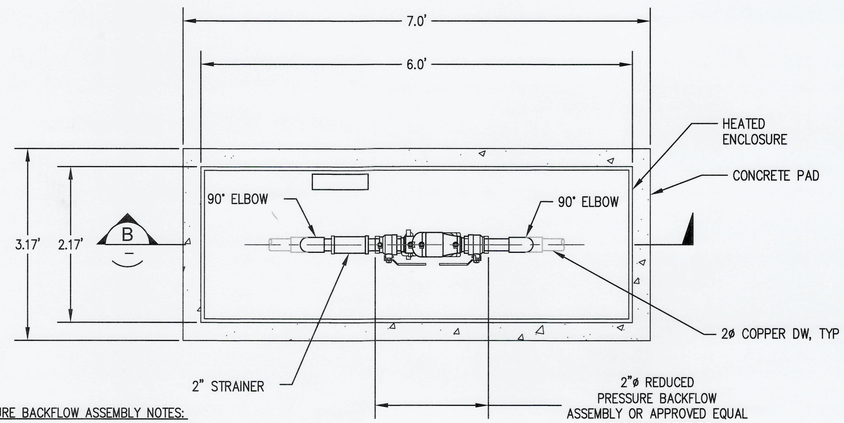


ELEVATION A

3 GATE VALVE/VALVE BOX
C1.7 NTS



SECTION B



PLAN

2" REDUCED PRESSURE BACKFLOW ASSEMBLY NOTES:

2" REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE LF909 M1-QT AND SHALL BE 1.5' MIN ABOVE CONCRETE SLAB. HEATED ENCLOSURE SHALL HAVE 1' MIN CLEARANCE HORIZONTALLY AND 1' MIN CLEARANCE VERTICALLY FROM BACKFLOW ASSEMBLY AND PIPES. CONCRETE SLAB SHALL PROVIDE 6" FROM HEATED ENCLOSURE TO EDGE OF SLAB.

4 2" Ø REDUCED PRESSURE BACKFLOW ASSEMBLY
C1.3 NTS

BINDING EDGE

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ALEXANDER KINGSLEY BARNES — STATE OF WASHINGTON — 21009 — REGISTERED PROFESSIONAL ENGINEER — 12/4/23

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C1.7

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EB-1 PAVEMENT AND RESTROOM BUILDINGS

UTILITY DETAILS

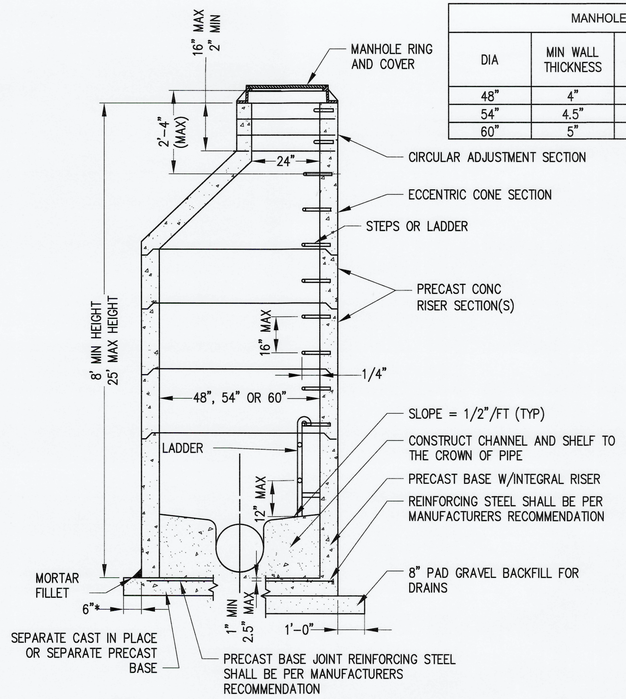
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PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS SHOWN

SECTION: 36

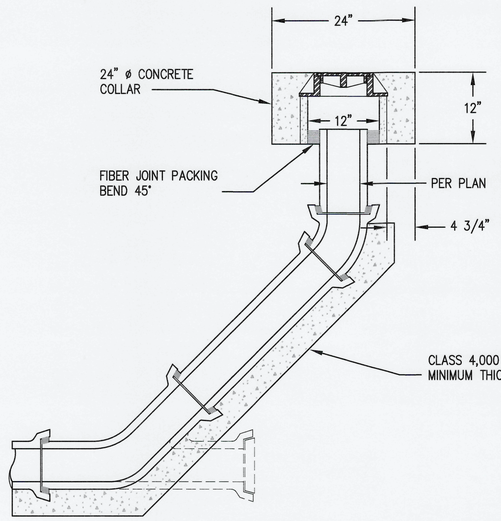
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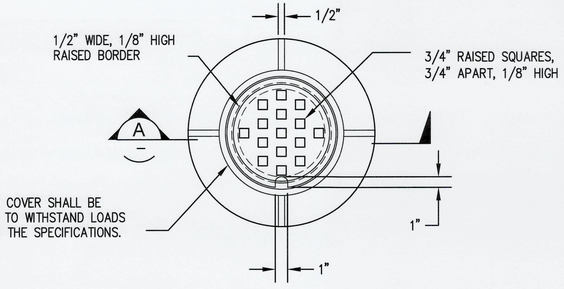
BINDING EDGE

MANHOLE DIMENSIONS TABLE				
DIA	MIN WALL THICKNESS	MIN BASE THICKNESS	MAX KNOCKOUT SIZE	MIN DIST BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"

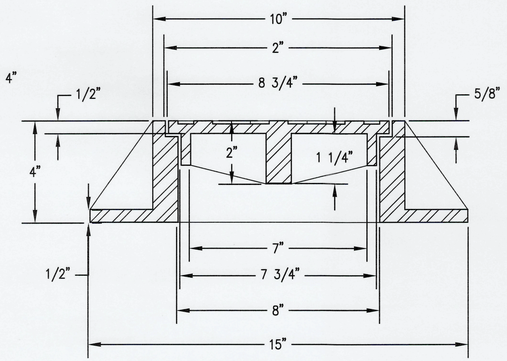


1 C1.2 **SANITARY SEWER MANHOLE**
NTS



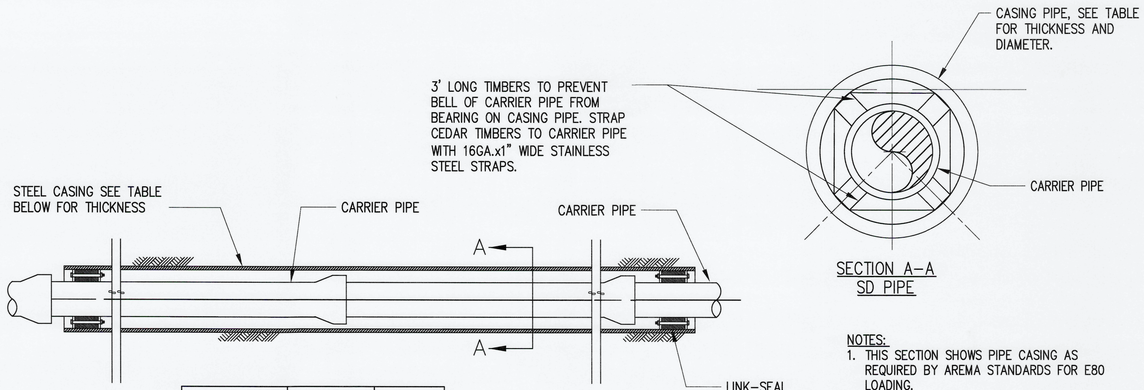


PLAN



SECTION A

2 C1.3 **SANITARY CLEANOUT**
NTS



SECTION A–A
SD PIPE

CARRIER PIPE SIZE (NOMINAL)	CASING SIZE (NOMINAL)	LINK-SEAL SIZE NO.
1-1/4"	3-1/4"	LS-275-C
6"	10"	LS-475-C
8"	16"	LS-475-C
10"	18"	LS-400-C
12"	20"	LS-400-C
18"	30"	LS-500-C

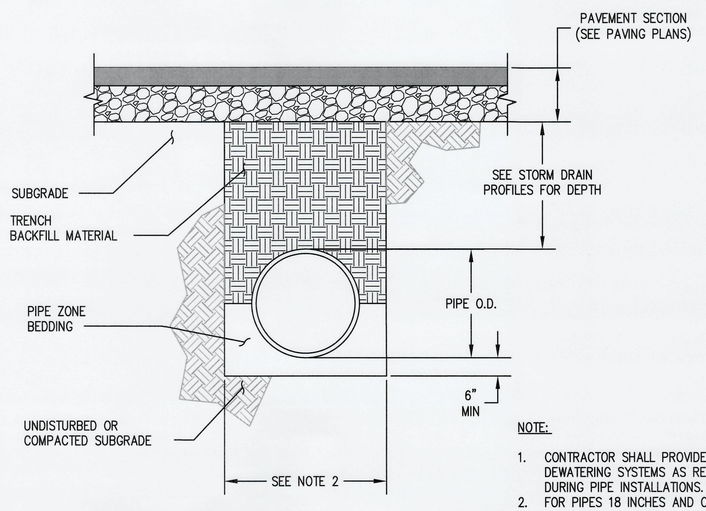
MINIMUM THICKNESS FOR CASING PIPE	DIAMETER OF CASING PIPE
1/4" (0.25")	12" OR LESS
5/16" (0.3125")	OVER 12"-18"
11/32" (0.344")	20" & 22"

NOTES:
1. THIS SECTION SHOWS PIPE CASING AS REQUIRED BY AREMA STANDARDS FOR E80 LOADING.
2. CASING SHALL EXTEND 15' BEYOND THE CENTERLINE OF THE TRACKS.

CASING:
SIZE AND MINIMUM THICKNESS OF CASING SHALL BE AS SHOWN ON THE CONTRACT DRAWINGS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE THICKNESS CONSISTENT WITH HIS OPERATION.

CASING SEAL:
MINIMUM 3/16" THICK, SHEET TYPE SYNTHETIC RUBBER WITH STAINLESS STEEL BANDS.

3 C1.3, C1.9 **PIPE CASING**
NTS



NOTE:
1. CONTRACTOR SHALL PROVIDE DEWATERING SYSTEMS AS REQUIRED DURING PIPE INSTALLATIONS.
2. FOR PIPES 18 INCHES AND OVER, TRENCH WIDTH = (1.5 x I.D.) + 18 INCHES.

4 C1.8 **TYPICAL STORM DRAINAGE TRENCH DETAIL**
NTS

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kpff
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Tacoma, Washington 98407
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PORT ADDRESS:	ONE SITCUM PLAZA TACOMA WA, 98401-1837		
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PARCEL:	0321354035		

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EB-1 PAVEMENT AND RESTROOM BUILDINGS
UTILITY DETAILS

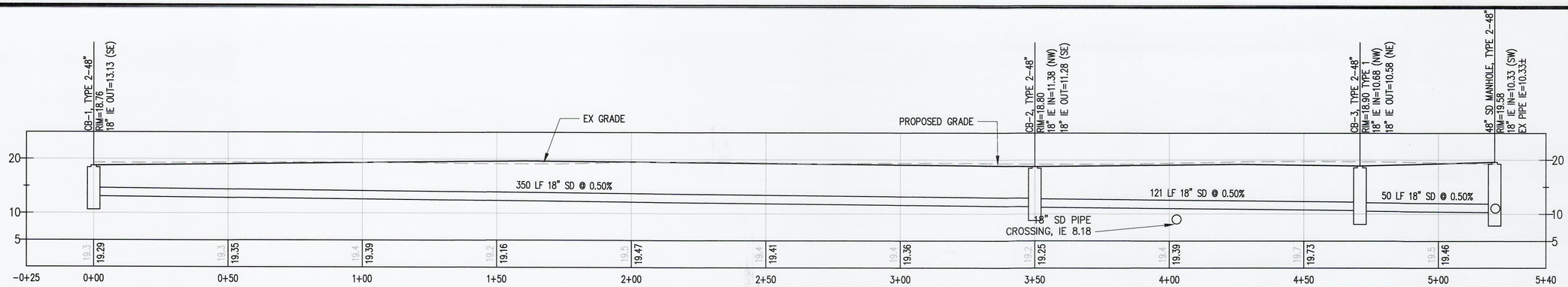
TOWNSHIP:	21N	RANGE:	3E
SECTION:	36		
DAT-HRZ:	W83-SF	VERT:	PORT OF TACOMA BM#

CONT/CONS:	071907
M. ID:	201105.01
PHASE:	BID SET

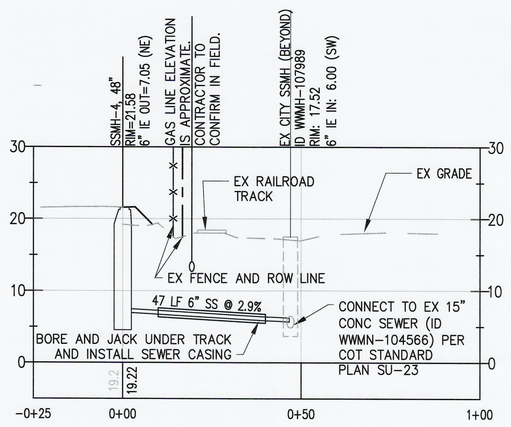
6695
C1.8
19 OF 26

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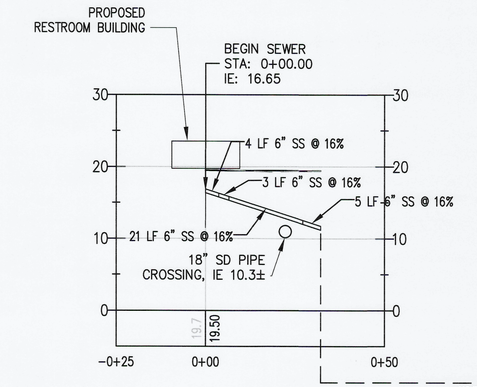
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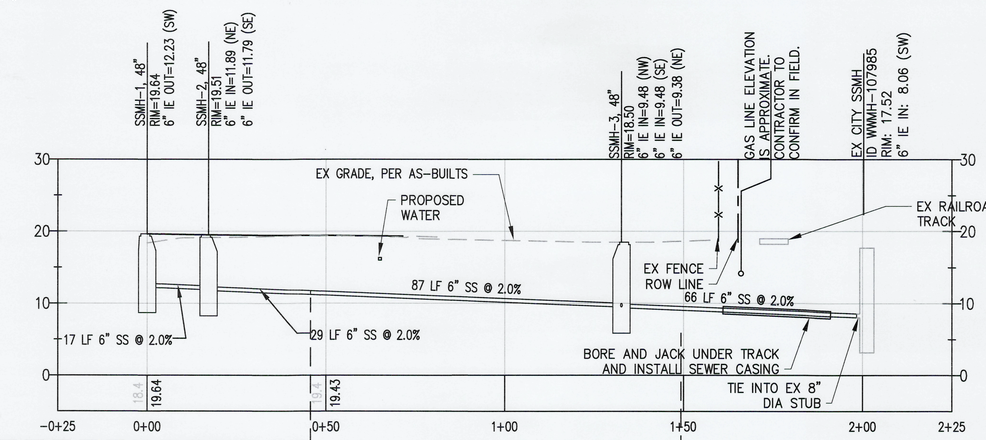
1 C1.9 **STORM DRAIN PROFILE**
SCALE: HORZ: 1:20 VERT 1:10



2 C1.0 **SANITARY SEWER PROFILE A**
SCALE: HORZ: 1:20 VERT 1:10



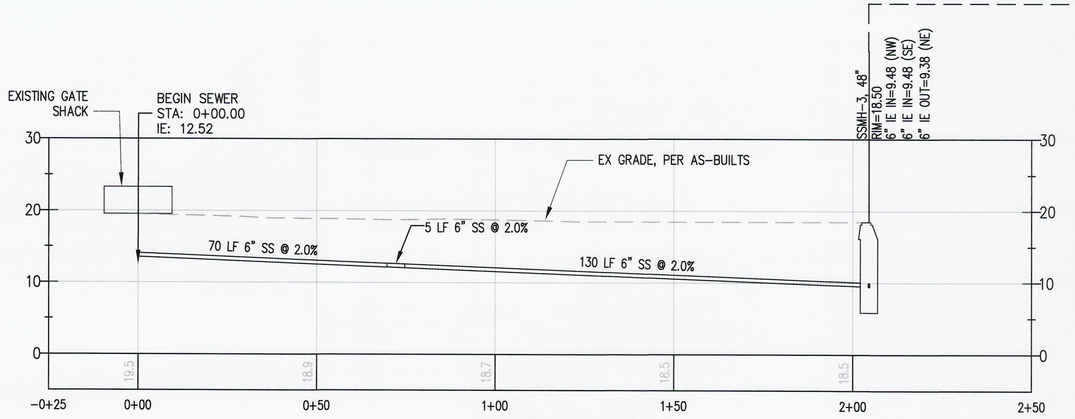
3 C1.2 **SANITARY SEWER PROFILE B**
SCALE: HORZ: 1:20 VERT 1:10



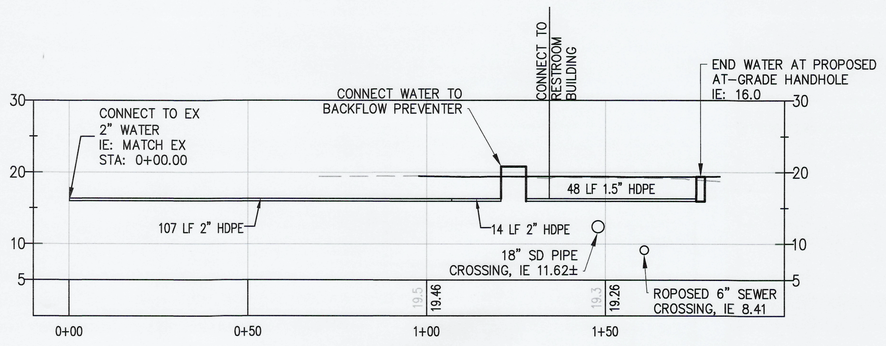
WYE INTO PROFILE C SANITARY SEWER, IE: 10.18

4 C1.2 **SANITARY SEWER PROFILE C**
SCALE: HORZ: 1:20 VERT 1:10

SAME STRUCTURE



5 C1.2 **SANITARY SEWER PROFILE D**
SCALE: HORZ: 1:20 VERT 1:10



6 C1.2 **DOMESTIC WATER PROFILE A**
SCALE: HORZ: 1:20 VERT 1:10

BINDING EDGE

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PROJ. ENGR	11/21/2023	

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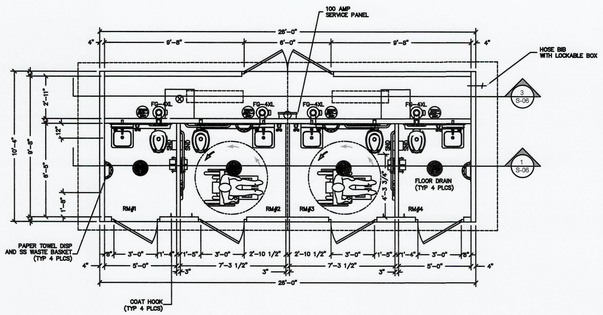
EB-1 PAVEMENT AND RESTROOM BUILDINGS
UTILITY PROFILES

TOWNSHIP: 21N	RANGE: 3E	SECTION: 36	
DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#		
PARCEL: 0321354035	DRAWING SCALE: AS SHOWN		

6695
C1.9
20 OF 26

CONT/CONS: 071907
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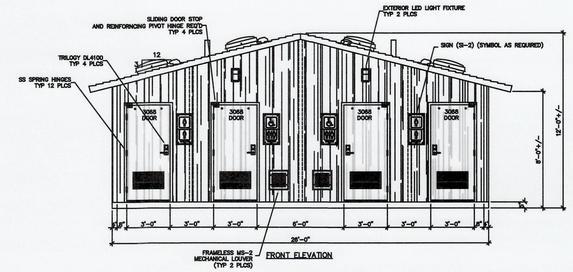
MARINE PACKAGE

LBFoster CXT® Products

FLOOR PLAN

S-03

1 SANTIAGO FLOOR PLAN
C2.0 NTS



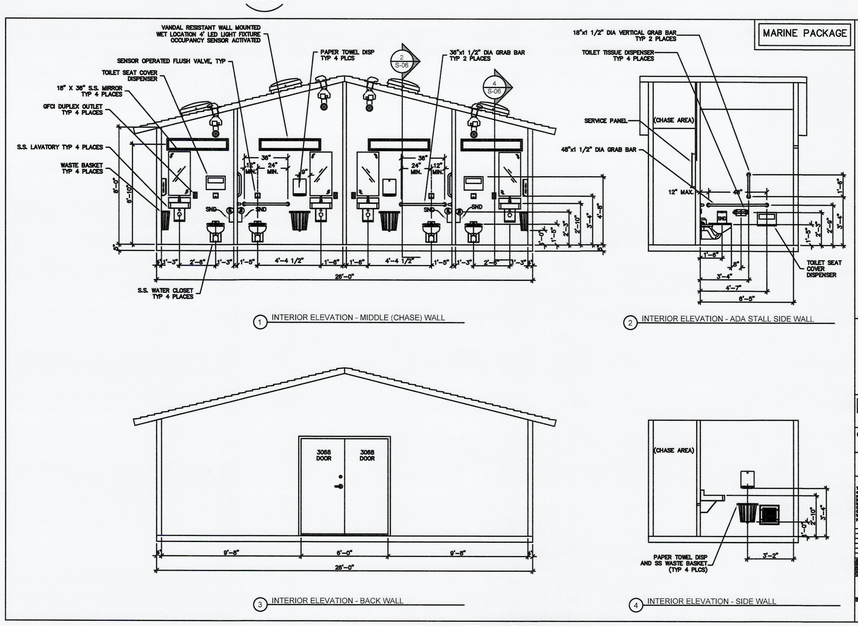
MARINE PACKAGE

LBFoster CXT® Products

BUILDING ELEVATIONS

S-04

2 SANTIAGO ELEVATIONS
C2.0 NTS



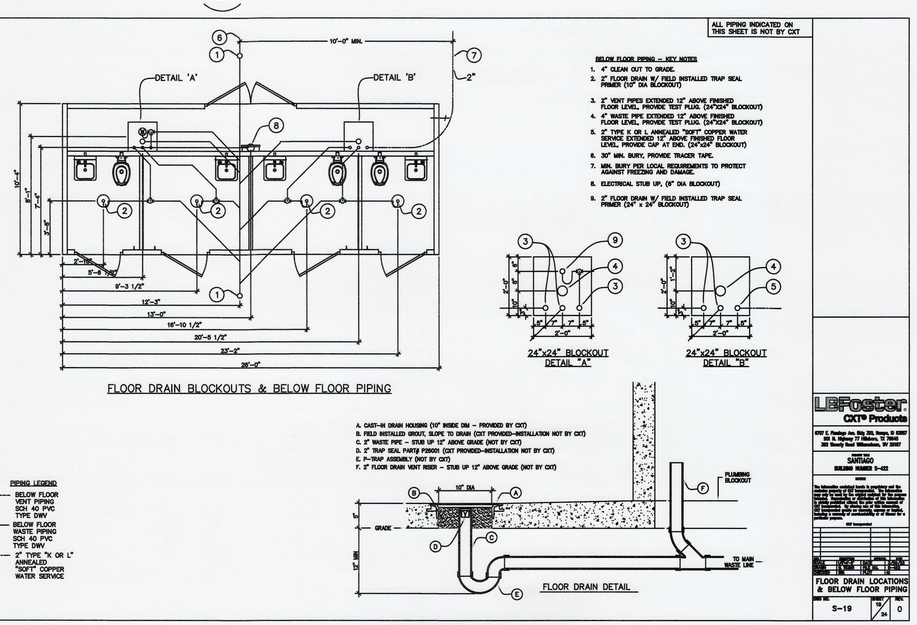
MARINE PACKAGE

LBFoster CXT® Products

BUILDING INTERIOR ELEVATIONS

S-06

3 SANTIAGO INTERIOR ELEVATIONS
C2.0 NTS



LBFoster CXT® Products

FLOOR DRAIN LOCATIONS & BELOW FLOOR PIPING

S-19

4 SANTIAGO FIELD STUB UP LOCATIONS
C2.0 NTS

NOTES:
1. THE RESTROOM BUILDINGS WILL BE PROCURED SEPARATELY BY THE PORT. PROCUREMENT AND PLACEMENT OF THE BUILDINGS ARE NOT INCLUDED IN THE CONTRACT. THIS DRAWING IS INCLUDED FOR REFERENCE ONLY AND IS ONLY INTENDED TO PROVIDE INFORMATION REGARDING THE BUILDING THAT WILL BE INSTALLED BY THE PORT.
2. CONTRACTOR IS RESPONSIBLE FOR ALL SUB–BASE PREPARATION AND UTILITY WORK REQUIRED TO SET RESTROOM BUILDING. THE CONTRACTOR IS NOT RESPONSIBLE FOR SETTING THE BUILDING. SEE DRAWING C1.3 FOR REQUIRED UTILITY WORK.

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C2.0
21 OF 26

EB-1 PAVEMENT AND RESTROOM BUILDINGS

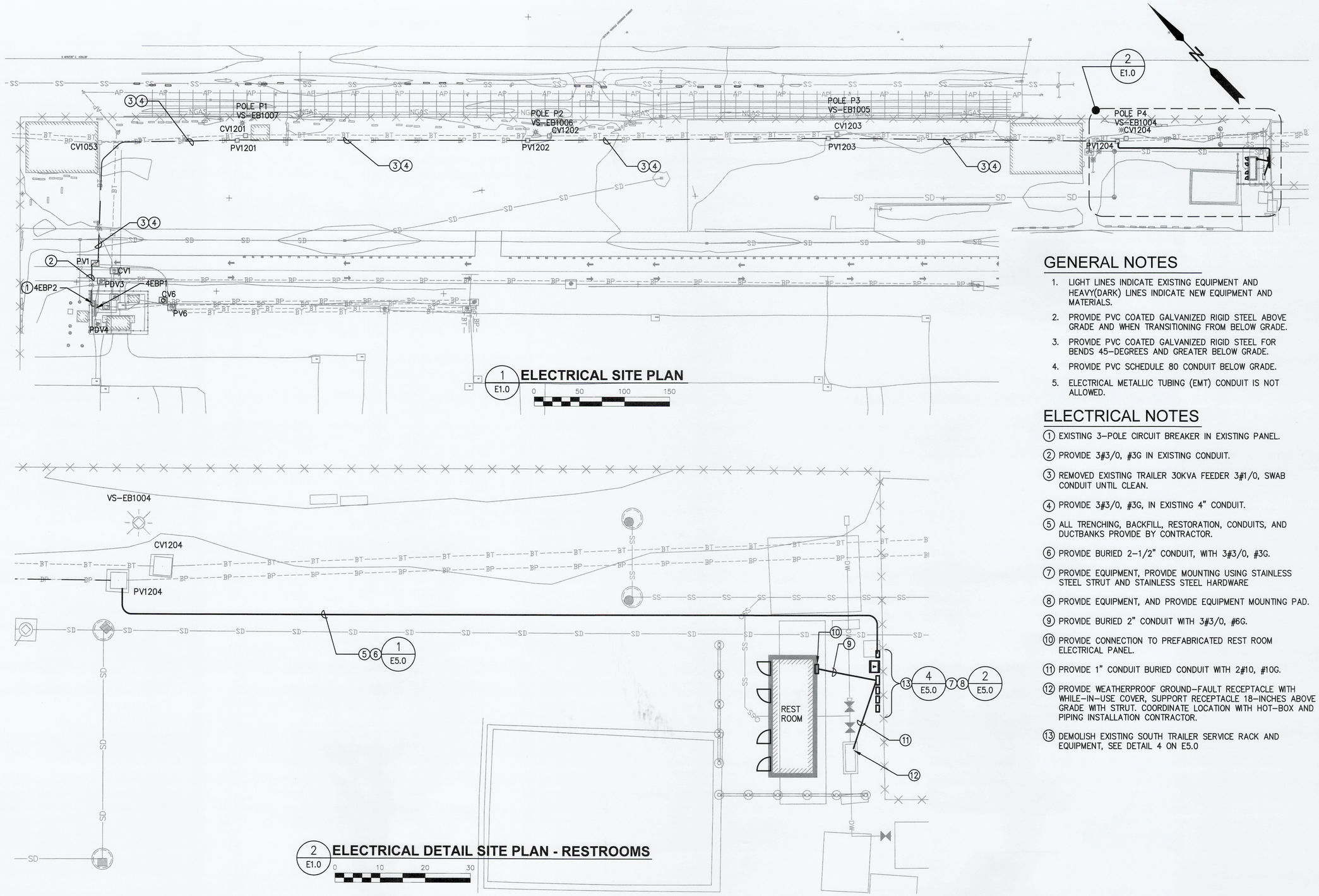
RESTROOM BUILDING DETAILS

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E
M. ID:	201105.01	DAT–HRZ: W83–SF	VERT: PORT OF TACOMA BM#
PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS SHOWN

SECTION: 36

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BINDING EDGE



1 E1.0 **ELECTRICAL SITE PLAN**

0 50 100 150

2 E1.0 **ELECTRICAL DETAIL SITE PLAN - RESTROOMS**

0 10 20 30

GENERAL NOTES

1. LIGHT LINES INDICATE EXISTING EQUIPMENT AND HEAVY(DARK) LINES INDICATE NEW EQUIPMENT AND MATERIALS.
2. PROVIDE PVC COATED GALVANIZED RIGID STEEL ABOVE GRADE AND WHEN TRANSITIONING FROM BELOW GRADE.
3. PROVIDE PVC COATED GALVANIZED RIGID STEEL FOR BENDS 45–DEGREES AND GREATER BELOW GRADE.
4. PROVIDE PVC SCHEDULE 80 CONDUIT BELOW GRADE.
5. ELECTRICAL METALLIC TUBING (EMT) CONDUIT IS NOT ALLOWED.

ELECTRICAL NOTES

(1) EXISTING 3–POLE CIRCUIT BREAKER IN EXISTING PANEL.

(2) PROVIDE 3#3/0, #3G IN EXISTING CONDUIT.

(3) REMOVED EXISTING TRAILER 30KVA FEEDER 3#1/0, SWAB CONDUIT UNTIL CLEAN.

(4) PROVIDE 3#3/0, #3G, IN EXISTING 4" CONDUIT.

(5) ALL TRENCHING, BACKFILL, RESTORATION, CONDUITS, AND DUCTBANKS PROVIDE BY CONTRACTOR.

(6) PROVIDE BURIED 2–1/2" CONDUIT, WITH 3#3/0, #3G.

(7) PROVIDE EQUIPMENT, PROVIDE MOUNTING USING STAINLESS STEEL STRUT AND STAINLESS STEEL HARDWARE

(8) PROVIDE EQUIPMENT, AND PROVIDE EQUIPMENT MOUNTING PAD.

(9) PROVIDE BURIED 2" CONDUIT WITH 3#3/0, #6G.

(10) PROVIDE CONNECTION TO PREFABRICATED REST ROOM ELECTRICAL PANEL.

(11) PROVIDE 1" CONDUIT BURIED CONDUIT WITH 2#10, #10G.

(12) PROVIDE WEATHERPROOF GROUND–FAULT RECEPTACLE WITH WHILE–IN–USE COVER, SUPPORT RECEPTACLE 18–INCHES ABOVE GRADE WITH STRUT. COORDINATE LOCATION WITH HOT–BOX AND PIPING INSTALLATION CONTRACTOR.

(13) DEMOLISH EXISTING SOUTH TRAILER SERVICE RACK AND EQUIPMENT, SEE DETAIL 4 ON E5.0

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff
ELCON ASSOCIATES, INC
A KPFF COMPANY - CIVIL ENGINEERS
10900 DARTMOUTH ROAD, SUITE 330
BURTT, WA 98168
TEL: (206) 343-3020
FAX: (206) 343-3005

MARK:	REVISION:	BY:	APPR:	DATE:

SCOTT A. BARTHOLOMEW — STATE OF WASHINGTON — 21645 — REGISTERED PROFESSIONAL ENGINEER — 11/30/23

APPROVED:

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EB-1 PAVEMENT AND RESTROOM BUILDINGS

ELECTRICAL SITE PLAN 1

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E
M. ID:	201105.01	DAT–HRZ: WB3–SF	VERT: PORT OF TACOMA BM#
PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS NOTED

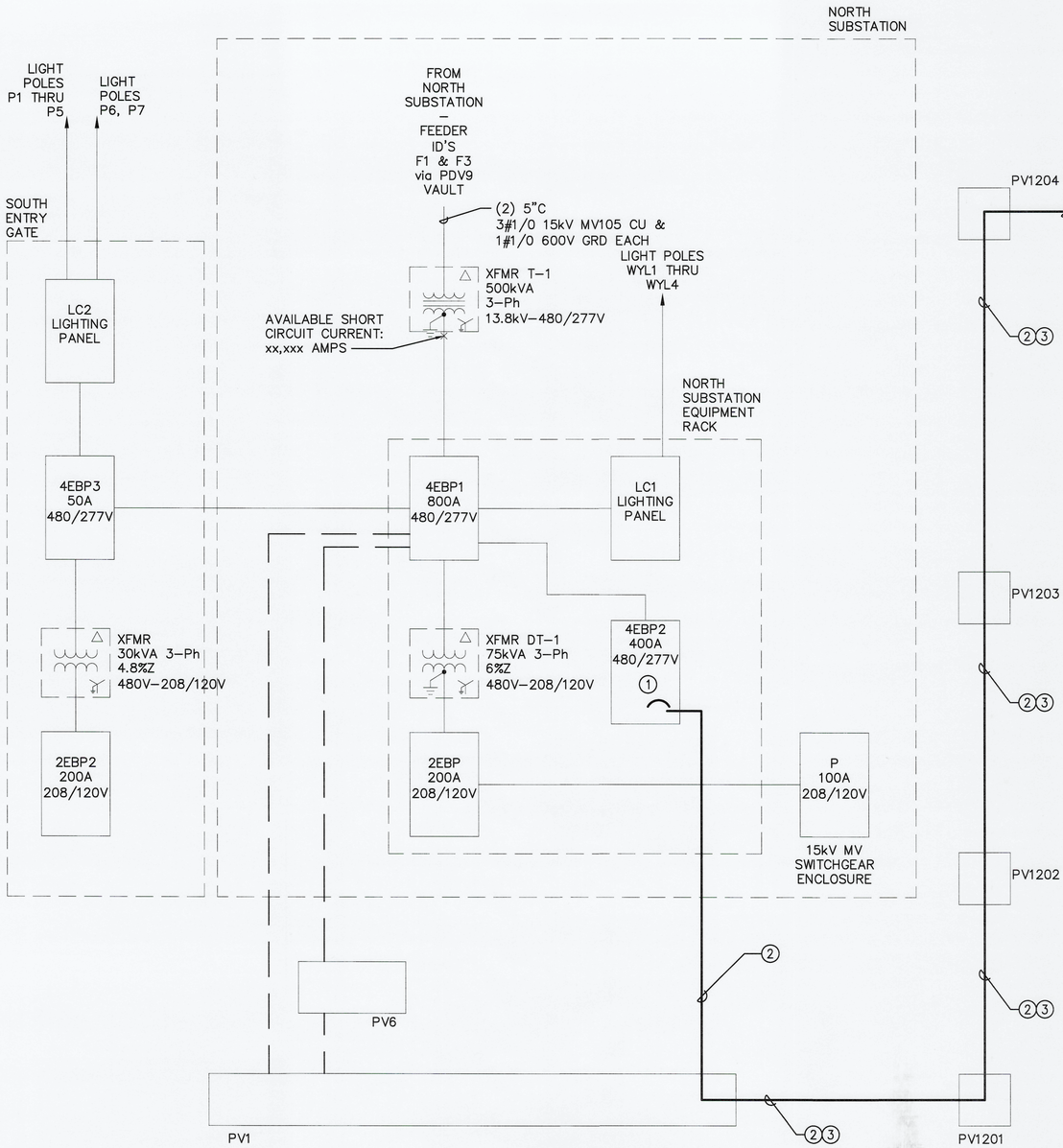
SECTION: 36

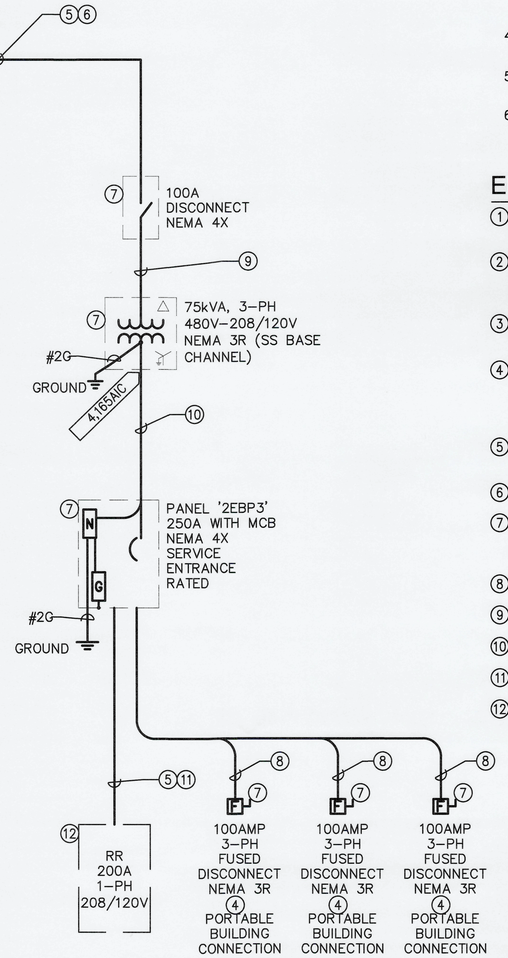
E1.0
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BINDING EDGE





GENERAL NOTES

1. LIGHT LINES INDICATE EXISTING EQUIPMENT AND HEAVY(DARK) LINES INDICATE NEW EQUIPMENT AND MATERIALS.
2. PROVIDE PVC COATED GALVANIZED RIGID STEEL ABOVE GRADE AND WHEN TRANSITIONING FROM BELOW GRADE.
3. PROVIDE PVC COATED GALVANIZED RIGID STEEL FOR BENDS 45–DEGREES AND GREATER BELOW GRADE.
4. PROVIDE PVC SCHEDULE 80 CONDUIT BELOW GRADE.
5. ELECTRICAL METALLIC TUBING (EMT) CONDUIT IS NOT ALLOWED.
6. SEE E4.1 AND E4.2 FOR PANEL SCHEDULES.

ELECTRICAL NOTES

1. EXISTING 3–POLE CIRCUIT BREAKER IN EXISTING PANEL. SEE E4.1 FOR PANEL SCHEDULE, FOR SIZE.
2. REMOVE EXISTING 3#1/0 SOUTH TRAILER FEEDER TO 30KVA TRANSFORMER, CONDUIT TO BE SWABBED CLEAN BEFORE PULLING NEW FEEDER
3. PROVIDE 3#3/0, #3G IN EXISTING 4" CONDUIT, SWAB CONDUIT UNTIL CLEAN.
4. PROVIDE NEMA 4X FUSED 3–PHASE DISCONNECT WITH NEUTRAL BUS AND GROUND BUS. SIZE FUSES TO TRAILER SERVICE SIZE, LOAD BALANCE PHASES TO PROVIDE EVEN LOADING BETWEEN PHASES ON PANEL '2EBP3'.
5. ALL TRENCHING, BACKFILL, CONDUITS, AND DUCTBANKS PROVIDE BY CONTRACTOR.
6. PROVIDE BURIED 2–1/2" CONDUIT, WITH 3#3/0, #3G.
7. PROVIDE EQUIPMENT, PROVIDE MOUNTING USING STAINLESS STEEL STRUT AND STAINLESS STEEL HARDWARE, AND EQUIPMENT MOUNTING PAD. SEE E5.0 DETAIL 2.
8. PROVIDE 1–1/2" CONDUIT WITH 4#2, #8G.
9. PROVIDE 1–1/4" CONDUIT WITH 3#1, #6G.
10. PROVIDE 3" CONDUIT WITH 4#350KCM.
11. PROVIDE BURIED 2" CONDUIT WITH 3#3/0, #6G.
12. PROVIDE CONNECTION TO PREFABRICATED REST ROOM ELECTRICAL PANEL.

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837

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KPFF
EI-CON ASSOCIATES, INC
ENGINEERS - CONSULTANTS
10900 OHREY TRAEGER ROAD, SUITE 300
ANCHORAGE, ALASKA 99515
TEL (206) 343-6022
FAX (206) 343-6023

SCOTT A. RAPACKE — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — 11/30/23

DKS	4/12/2022
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SAB	4/13/2022
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APPROVED:

EB-1 PAVEMENT AND RESTROOM BUILDINGS

ONE LINE DIAGRAM

E4.0
23 OF 26

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E
M. ID:	201105.01	DAT–HRZ: W83–SF	VERT: PORT OF TACOMA BM#
PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS NOTED

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BINDING EDGE

PANELBOARD 4EBP1 — 600 A BUS — SECTIONS: 1 — SURFACE MOUNTED
480/ 277V 3 PHASE 4 WIRE — 600 A MCB — LUGS: SINGLE — NEMA: 3R/12 SS
LOCATION: SITE SUBSTATION — 42,000 AIC — FEED: via 500kVA — NUMBER OF POLES: 48

	CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE	CKT	
			NOT USABLE			73.1	219.28	400 / 3	PANEL 4EBP2	SF		
			NOT USABLE			73.1		---	---- SUB FEED			
			NOT USABLE			73.1		---	---- BACK SIDE OF RACK			
	1	MC	TVSS/SPD	30 / 2	0.05	0.0		60 / 3			2	
	3		----	---		0.0		---	----		4	
	5		----			0.0		---	----		6	
	7	MC	COMM POLE WCP1	30 / 2	5.00	3.0	0.50	20 / 1	HEATER	EH	8	
	9		----	---		2.5		20 / 1			10	
	11					0.0		20 / 1			12	
	13	LI	WHARF LITES WYL1 & WYL2	100 / 3	35.20	11.8	0.10	20 / 2	LIGHTING CONTACTOR PANEL 'LC1'	MC	14	
	15		----	---		11.8		---	---- LITING CTRL		16	
	17		----	---		11.7					18	
	19	LI	WHARF LITES WYL3 & WYL4	100 / 3	35.20	11.7					20	
	21		----	---		19.2	15.00	60 / 2	COMM POLES WCP2 THRU	MC	22	
	23		----	---		19.2		---	---- WCP4		24	
	25	SF	PANEL 4EBP3	200 / 3	40.00	13.3		/ 3	250AMP MAX		26	2
	27		---- SUB FEED	---		13.3		---	250AMP MAX		28	
	29		---- BY ENTRY GATE	---		13.3		---	250AMP MAX		30	
	31	LI	YARD LITES 1 THRU 4	100 / 3	17.60	5.9	0.01	30 / 3	METER	MC	32	
	33		----	---		5.9		---	----		34	
	35		----	---		5.9		---	----		36	
	37	LI	SEC LITES 1 THRU 4	60 / 3	5.00	11.9	30.80	100 / 3	PANEL 2EBP	SF	38	
	39		----	---		11.9		---	---- SUB FEED		40	
	41		----	---		11.9		---	---- VIA 75KVA XFMR		42	
						130.8 137.8 135.2			CALCULATED LOAD	432.0 KVA		
									MAXIMUM AMPS PER PHASE	534.4 AMPS		

NOTES:
1. EXISTING PANEL
2. SPACE FOR 250AMP FRAME CIRCUIT BREAKER.

PANELBOARD 4EBP3 — 50 A BUS — SECTIONS: 1 — SURFACE MOUNTED
480/ 277V 3 PHASE 4 WIRE — 50 A MCB — LUGS: SINGLE — NEMA: 1
LOCATION: ENTRY GATE — 10,000 AIC — FEED: 4EBP1 — NUMBER OF POLES: 42

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE	CKT
		MAIN MAIN	50 / 3		0.0			NOT USEABLE		
		MAIN	---		0.0			NOT USEABLE		
		MAIN MAIN	---		0.0			NOT USEABLE		
1		GUARD SHELTER	30 / 2		0.0		30 / 2	POLE 6,7		2
3		----	---		0.0		---	----		4
5		POLE 1,2,3,4,5,6,7	30 / 2		0.0		30 / 2	POLE 5 CAMERA		6
7		----	---		0.0		---	----		8
9		OFF	20 / 1		0.0		20 / 1	OFF		10
11		OFF	20 / 1		0.0		20 / 1	OFF		12
13		POWER TO XFMRS	30 / 2		0.0		50 / 3	PANEL 2EBP2 via		14
15		POLES 1,2,3,4,5 CAMERAS	---		0.0		---	30kVA XMFR		16
17		OFF	20 / 1		0.0		---			18
19					0.0					20
21					0.0					22
23					0.0					24
25					0.0					26
27					0.0					28
29					0.0					30
31					0.0					32
33					0.0					34
35					0.0					36
					0.0 0.0 0.0			CALCULATED LOAD	0.0 KVA	
								MAXIMUM AMPS PER PHASE	0.0 AMPS	

NOTES:
1. EXISTING PANEL

PANELBOARD 4EBP2 — 400 A BUS — SECTIONS: 1 — SURFACE MOUNTED
480/ 277V 3 PHASE 4 WIRE — 400 A MCB — LUGS: SINGLE — NEMA: 3R/12 SS
LOCATION: SITE SUBSTATION — 42,000 AIC — FEED: via 4EBP1 — NUMBER OF POLES: 42

	CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE	CKT	
2	1	MN	REC CRANE MAINTENANCE	200 / 3	100.00	33.3		200 / 3	REC CRANE MAINTENANCE	NO	2	2
	3		---- NON-COINCIDENTAL	---		33.3		---	---- NON-COINCIDENTAL		4	
	5		---- OFF	---		33.3		---	---- OFF		6	
2	7	NO	REC CRANE MAINTENANCE	200 / 3		33.3	100.00	200 / 3	REC CRANE MAINTENANCE	NO	8	2
	9		---- NON-COINCIDENTAL	---		33.3		---	---- NON-COINCIDENTAL		10	
	11		---- OFF	---		33.3		---	---- OFF		12	
3	13	SF	**PANEL 2EBP3**	100 / 3	**70.00**	29.1	17.43	40 / 3	SOUTHEND CAPSTAN	MO	14	
	15		**---- SUB FEED**	---		29.1		---	---- 15HP		16	
	17		**---- VIA 75KVA XFMR**	---		29.1		---	----		18	
	19	SF	NORTHEND CAPSTAN	30 / 2	5.00	2.5	0.05	30 / 3	TVSS (SPD)	MC	20	
	21		---- PWR ZONE OFF	---		2.5		---	----		22	
	23		OFF	20 / 1		0.0		---	----		24	
	25	MO	NORTHEND CAPSTAN	40 / 3	17.43	8.3	5.00	30 / 2	SOUTHEND CAPSTAN	SF	26	
	27		---- 15HP	---		8.3		---	---- PWR ZONE		28	
	29		---- OFF	---		5.8					30	
	31		125AMP MAX			0.0			125AMP MAX		32	
	33		125AMP MAX			0.0			125AMP MAX		34	
	35		125AMP MAX			0.0			125AMP MAX		36	
	37		125AMP MAX			0.0			125AMP MAX		38	
	39		125AMP MAX			0.0			125AMP MAX		40	
	41		125AMP MAX			0.0			125AMP MAX		42	
						106.6 106.6 101.6			CALCULATED LOAD	219.3 KVA		
									MAXIMUM AMPS PER PHASE	269.9 AMPS		

NOTES:
1. EXISTING PANEL
2. NON-COINCIDENTAL LOADS
3. **EXISTING 'SOUTHEND TRAILER' CIRCUIT (30kVA) TRANSFORMER, RE-USE CIRCUIT BREAKER FOR NEW 75kVA TRAILER CIRCUIT.**

PANELBOARD 2EBP — 200 A BUS — SECTIONS: 1 — SURFACE MOUNTED
208/ 120V 3 PHASE 4 WIRE — 200 A MCB — LUGS: SINGLE — NEMA: 3R/12 SS
LOCATION: SITE SUBSTATION — 10,000 AIC — FEED: 4EBP1 via 75kVA — NUMBER OF POLES: 42

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE	CKT
1	RE	WHARF RECPT #1	20 / 1	0.18	1.2	2.00	20 / 2	WHARF RECPT #1	RE	2
3	RE	WHARF RECPT #2	20 / 1	0.18	1.2		---	----		4
5	RE	WHARF RECPT #3	20 / 1	0.18	0.3	0.10	20 / 1	CRANE CONTACTOR CTRL	MC	6
7	RE	WHARF RECPT #4	20 / 1	0.18	1.2	2.00	20 / 2	WHARF RECPT #2	RE	8
9	RE	WATER VAULT RECPT #1	20 / 1	0.25	1.3		---	----		10
11		GFI-30	20 / 1		0.0		20 / 1			12
13	RE	WATER VAULT RECPT #3	20 / 1	0.25	0.8	0.50	20 / 1	PANEL HEATER	EH	14
15			40 / 2		1.0	2.00	20 / 2	WHARF RECPT #3	RE	16
17			---		1.0		---	----		18
19		GFI-30	20 / 1		1.0	2.00	20 / 2	WHARF RECPT #4	RE	20
21	RE	WATER VAULT RECPT #4	20 / 1	0.25	1.3		---	----		22
23		GFI-30	20 / 1		0.2	0.18	20 / 1	RECPT	RE	24
25	SF	GUARD SHACK	80 / 2		0.1	0.10	15 / 1	CRANE CONTACTOR CTRL	MN	26
27		---- VIA PV1?	---		0.1	0.10	15 / 1	CRANE CONTACTOR CTRL	MN	28
29	LI	DOCK LIGHT	20 / 1		0.1	0.10	15 / 1	CRANE CONTACTOR CTRL	MN	30
31	MC	TVSS (SPD)	30 / 3	0.05	0.0		100 / 3	TRAILER PLUG	SF	32
33		----	---		0.0		---	---- VIA PV1?		34
35		----	---		0.0		---	----		36
37	MC	COMM HUT	100 / 2	10.00	5.0		100 / 3	PANEL 'P' -- MV HUT HOUSE PWR	SF	38
39		----	---		5.0		---	---- SUB FEED		40
41	MC	L.V. LIGHT CONTROL	20 / 1	0.05	0.1		---	----		42
					9.2 9.8 1.6			CALCULATED LOAD	23.2 KVA	
								MAXIMUM AMPS PER PHASE	92.1 AMPS	

NOTES:
1. EXISTING PANEL

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Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401-1837

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SCOTT A. BARKHOSKE — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — 11/30/23

DKS 4/12/2022
CHECKED BY DATE
SAB 4/13/2022
PROJ. ENGR DATE

APPROVED: [signature] 12/6/23
DIRECTOR ENG. DATE

EB-1 PAVEMENT AND RESTROOM BUILDINGS

PANEL SCHEDULE

E4.1
24 OF 26

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E
M. ID:	201105.01	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#
PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS NOTED

PRINTED BY: scot Nov 30, 2023 — SECTION: 36
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

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BINDING EDGE

PANELBOARD 2EBP2 — 200 A BUS — SECTIONS: 1 — SURFACE MOUNTED
208/ 120V 3 PHASE 4 WIRE — 200 A MCB — LUGS: SINGLE — NEMA: 1
LOCATION: ENTRY GATE — 22,000 AIC — FEED: 4EBP3 via 30kVA — NUMBER OF POLES: 30

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE	CKT
1	LI	LIGHTS, ENCLOSURE	20/1	0.20	0.4	0.18	20/1	RECEPT, BETWEEN PNLS	RE	2
3	RE	RECEPT, BETWEEN PNLS	20/1	0.18	0.5	0.36	20/1	RECEPT, RACK	RE	4
5		OFF	20/1		0.0		20/1	OFF		6
7		OFF	20/1		0.0		20/1	OFF		8
9		OFF	20/1		0.0		20/1	OFF		10
11		OFF	20/1		0.0		20/1	OFF		12
13		OFF	20/1		0.0		20/1	OFF		14
15		OFF	50/2		0.0		20/1	LC2	MC	16
17			---		0.0		100/2			18
19					0.0		---			20
21					0.0					22
23					0.0					24
25					0.0					26
27					0.0					28
29					0.0					30
					0.4 0.5 0.0			CALCULATED LOAD 1.0 KVA		
								MAXIMUM AMPS PER PHASE 4.5 AMPS		

NOTES:
1. EXISTING PANEL

PANELBOARD 2EBP3 — 250 A BUS — SECTIONS: 1 — SURFACE MOUNTED
208/ 120V 3 PHASE 4 WIRE — 250 A MCB — LUGS: SINGLE — NEMA: 4X (SS)
LOCATION: ENTRY TRAILERS/RESTRm — 22,000 AIC — FEED: 4EBP3 via 75kVA — NUMBER OF POLES: 30

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE	CKT	
1	SF	TRAILER, NORTH PORTABLE	100/3	10.00	3.3		20/1			2	
3		---- FUSED DISCONNECT	---		3.5	0.18	20/1	RECPT, EQUIP RACK	RE	4	
5		----	---		3.5	0.18	20/1	RECPT, HOT BOX	RE	6	2
7	SF	TRAILER, NORTH PORTABLE	100/3	10.00	4.8	3.00	20/2	CONEX TENT	SF	8	3
9		---- FUSED DISCONNECT	---		4.8		---	---- CONEX TENT		10	
11		----	---		4.8	3.00	20/2	RR TRAILER 3R02	SF	12	3
13	SF	TRAILER, NORTH PORTABLE	100/3	10.00	4.8		---	---- NORTH		14	
15		---- FUSED DISCONNECT	---		4.8	3.00	20/2	RR TRAILER 3R05	SF	16	3
17		----	---		4.8		---	---- SOUTH		18	
19	SF	REST-ROOM BLDG	200/2	20.00	10.0		20/2			20	
21		----	---		10.0		---			22	
23					0.0					24	
25					0.0	0.05	30/3	SURGE PROTECTION DEVICE	MC	26	2
27					0.0		---	---- (SPD)		28	
29					0.0		---	----		30	
					23.0 23.2 13.2			CALCULATED LOAD 59.4 KVA			
								MAXIMUM AMPS PER PHASE 193.3 AMPS			

NOTES:
1. PROVIDE SERVICE ENTRANCE RATED PANEL
2. PROVIDE 125KA SURGE PROTECTION DEVICE, MINUMUM.
3. TRANSFER CIRCUIT FROM PANEL 'TRLR'

PANELBOARD TRLR — 100 A BUS — SECTIONS: 1 — SURFACE MOUNTED
208/ 120V 1 PHASE 3 WIRE — 100 A MCB — LUGS: SINGLE — NEMA: 3R
LOCATION: SOUTH TRAILER — 10,000 AIC — FEED: via 30kVA XFMR — NUMBER OF POLES: 20

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD	KVA	C.B.	SERVES	TYPE	CKT	
		MAIN CB MAIN CB	100/2		0.0			NOT USEABLE			
		---- MAIN CB	---		0.0			NOT USEABLE			
1	SF	CONEX TENT	20/2	3.00	3.0	3.00	20/2	RR TRAILER 3R02	SF	2	2
3		---- CONEX TENT	---		3.0		---	---- NORTH		4	
5		OFF	20/1		1.5	3.00	20/2	RR TRAILER 3R05	SF	6	2
7		OFF	20/1		1.5		---	---- SOUTH		8	
9					0.0		20/1	OFF		10	
11					0.0					12	
13					0.0					14	
15					0.0					16	
					4.5 4.5			CALCULATED LOAD 9.0 KVA			
								MAXIMUM AMPS PER PHASE 43.3 AMPS			

NOTES:
1. EXISTING, TO BE DEMOLISHED
2. TRANSFER CIRCUIT TO PANEL '2EBP3'

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SCOTT A. BARTHOLOMEW — STATE OF WASHINGTON — 19155 — REGISTERED PROFESSIONAL ENGINEER — 11/30/25

APPROVED: DIRECTOR ENG. DATE

DKS 4/12/2022 DRAWN BY DATE
SAB 4/13/2022 CHECKED BY DATE
PROJ. ENGR DATE
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PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

EB-1 PAVEMENT AND RESTROOM BUILDINGS

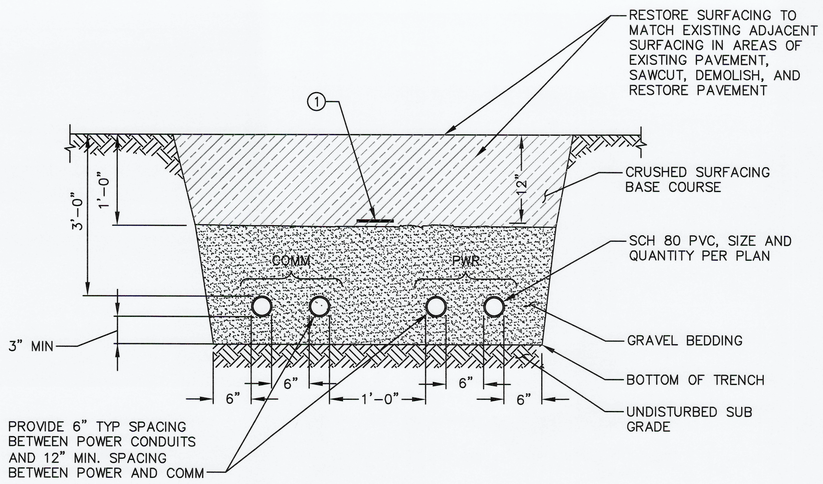
PANEL SCHEDULE

E4.2 — 25 OF 26

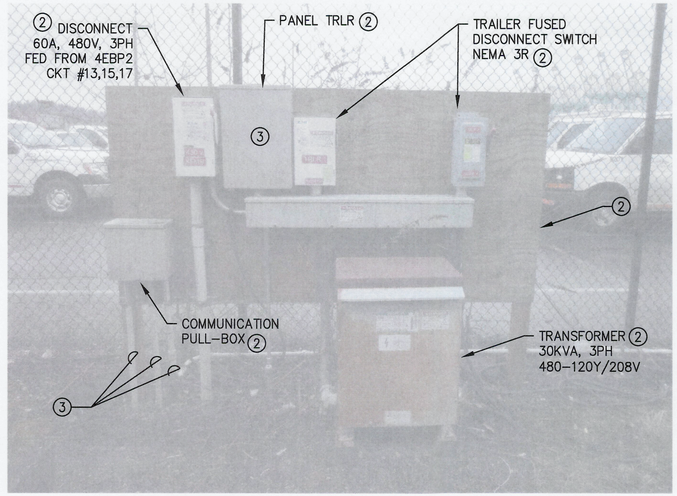
CONT/CONS: 071907 — TOWNSHIP: 21N — RANGE: 3E — SECTION: 36
M. ID: 201105.01 — DAT-HRZ: W83-SF — VERT: PORT OF TACOMA BM#
PHASE: BID SET — PARCEL: 0321354035 — DRAWING SCALE: AS NOTED

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1 DETAIL DIRECT BURIED CONDUIT
E1.0 SCALE: NTS



EXISTING SOUTHEND TRAILER SERVICE
NO SCALE
4 / E1.0

GENERAL NOTES

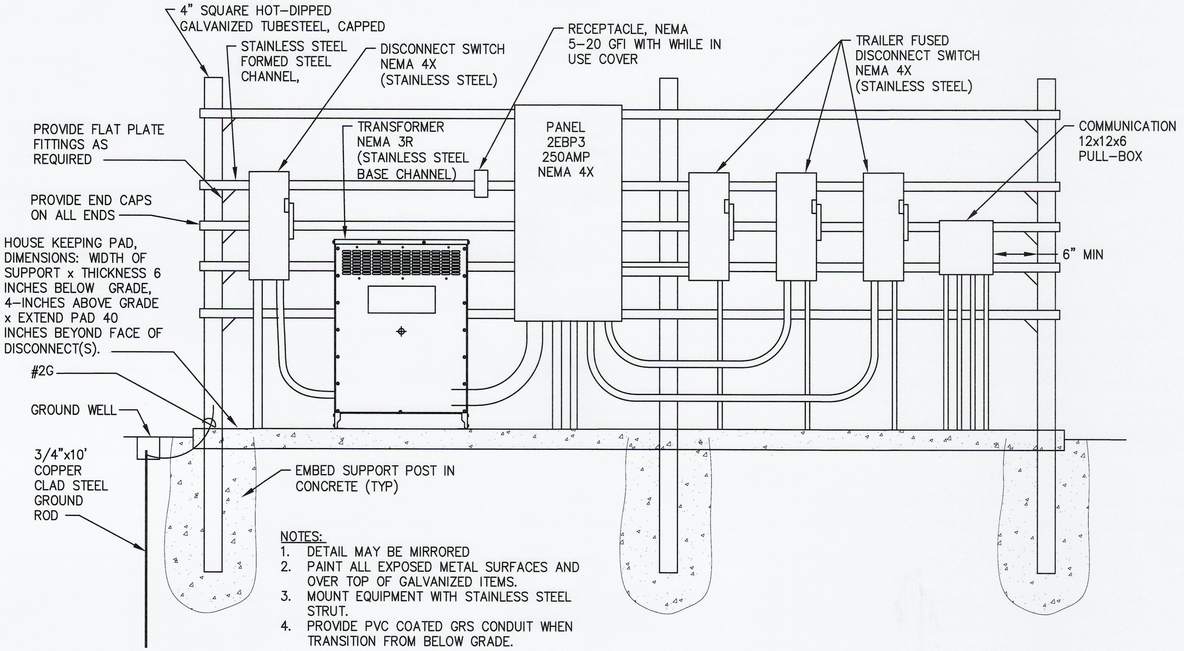
1. PROVIDE PVC COATED GALVANIZED RIGID STEEL ABOVE GRADE AND WHEN TRANSITIONING FROM BELOW GRADE.
2. PROVIDE PVC COATED GALVANIZED RIGID STEEL FOR BENDS 45-DEGREES AND GREATER BELOW GRADE.
3. PROVIDE PVC SCHEDULE 80 CONDUIT BELOW GRADE.
4. ELECTRICAL METALLIC TUBING (EMT) CONDUIT IS NOT ALLOWED.
5. ALL CONDUITS ENTERING OR LEAVING HANDHOLES SHALL BE PROVIDED WITH END BELLS. PROVIDE REMOVABLE FOAM FILL IN ALL EMPTY CONDUIT OPENINGS. PROVIDE PULL STRINGS IN ALL CONDUITS. CONTRACTOR SHALL PROVIDE CONDUIT LABELS FOR ALL CONDUITS ENTERING OR LEAVING HANDHOLES. PROVIDE PHENOLIC LABEL ATTACHED TO VAULT WALL WITH TWO 2) PLASTIC INSERTS AND STAINLESS STEEL SCREWS ADJACENT TO EACH CONDUIT. PHENOLIC SHALL HAVE CONDUIT ID ENGRAVED AS INDICATED ON PLAN.
6. CONTRACTOR SHALL PROVIDE CONDUCTOR IDENTIFICATION (ID) LABELS FOR ALL CONDUCTORS AND CABLES WITHIN HANDHOLE.
7. STRUCTURAL FRAMING, PAD, FOUNDATIONS, AND CONNECTIONS TO EQUIPMENT SHOWN ON THIS ELEVATION ARE FOR REFERENCE ONLY. CONTRACTOR SHALL SUBMIT DESIGN DETAILS, INCLUDING STAMPED AND SIGNED SHOP DRAWINGS AND CALCULATIONS, PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF WASHINGTON TO THE PORT FOR REVIEW AND APPROVAL

ELECTRICAL NOTES

(1) INSTALL 6-INCH WIDE DETECTABLE UNDERGROUND MARKING TAPE, RED-COLOR, REEF INDUSTRIES "SENTR LINE", OR PRO-LINE SAFETY, OR APPROVED EQUAL. INSTALL 12-INCHES ABOVE DIRECT BURIED CONDUITS. TAPE TO BE PRINTED WITH "CAUTION ELECTRICAL LINE BURIED BELOW".

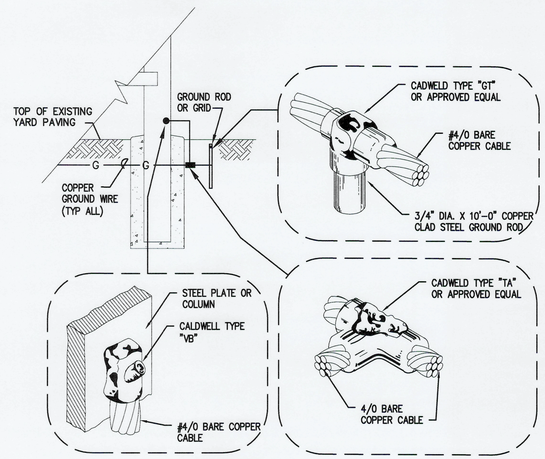
(2) DEMOLISH EXISTING SOUTHEND TRAILER SERVICE; BACKBOARD & SUPPORT, DISCONNECTS, TRANSFORMER, PANEL BOARD, COMMUNICATION PULL-BOX, AND GUTTER.

(3) RELOCATE COMMUNICATION CONDUITS, COMMUNICATION CABLES, AND ELECTRICAL CIRCUITS TO NEW EQUIPMENT RACK.



NOTES:
1. DETAIL MAY BE MIRRORED
2. PAINT ALL EXPOSED METAL SURFACES AND OVER TOP OF GALVANIZED ITEMS.
3. MOUNT EQUIPMENT WITH STAINLESS STEEL STRUT.
4. PROVIDE PVC COATED GRS CONDUIT WHEN TRANSITION FROM BELOW GRADE.

ELECTRICAL COMPONENT MOUNTING DETAIL
NO SCALE
2 / E1.0



TYPICAL GROUNDING DETAILS
NO SCALE
3 / E5.0

BINDING EDGE

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ENGINEERS - CONSULTANTS
18360 CHRISTENSEN ROAD, SUITE 330
SEATTLE, WASHINGTON 98188
TEL (206) 243-4022
FAX (206) 243-4060

SCOTT A. BARTOSSEK — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 11/30/23

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APPROVED: Mary Hunt 6/9/23
DIRECTOR ENG. DATE

EB-1 PAVEMENT AND RESTROOM BUILDINGS
ELECTRICAL DETAILS

E5.0
26 OF 26

CONT/CONS:	071907	TOWNSHIP: 21N	RANGE: 3E	SECTION: 36
M. ID:	201105.01	DAT-HRZ: W83-SF	VERT: PORT OF TACOMA BM#	
PHASE:	BID SET	PARCEL: 0321354035	DRAWING SCALE: AS NOTED	

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