

Appendix G

PORT OF TACOMA

ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL

PROJECT DESCRIPTION PROJECT NO. 101585.01 CONTRACT NO. 072077

PORT COMMISSIONERS:

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CONSULTANT:

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PROJECT ENGINEER: TREVOR LOUVIERE

DRAWING LIST			
SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
G1.0	1	Cover Sheet	0
G1.1	2	General Notes, Legend and Abbreviations	0
G2.0	3	Existing Site Conditions	0
G2.1	4	Existing Conditions - Subsurface Utilities 1	0
G2.2	5	Existing Conditions - Subsurface Utilities 2	0
G2.3	6	Existing Conditions - Subsurface Utilities 3	0
G2.4	7	Existing Conditions - Subsurface Utilities 4	0
D1.0	8	Temporary Erosion and Sediment Control (TESC) Plan	0
D1.1	9	TESC Details	0
D2.0	10	Demolition Plan	0
C1.0	11	Containment Wall Alignment Plan	0
C1.1	12	Containment Wall Profile	0
C1.2	13	Containment Wall Profile	0
C1.3	14	Containment Wall Details	0
C1.4	15	Restoration Plan	0



MARK:	REVISION:	BY:	DATE:

**Preliminary
30% Design**

D.HAWK	09/20/24
CHECKED BY	DATE
T.LOUVIERE	09/20/24
PROJ. ENGR	DATE
PRINTED BY: kbeyley	Oct 04, 2024
PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	

APPROVED: [Signature]

ARKEMA MANUFACTURING AREA INTERIM ACTION -
CONTAINMENT WALL
COVER SHEET

TOWNSHIP: [] SECTION: []
RANGE: []
DATE-HRZ: WA83-SF VERT: MLLW 19.39 @ Tide 22 1933
PARCEL: [] DRAWING SCALE: AS NOTED

6697
G1.0
SH # 1 OF #15

CONT/CONS: []
M. ID: 101585.01
PHASE: []

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PORT OF TACOMA FILE: P:\Port of Tacoma Arkema Site\CAD\Figures\101585.01 - Arkema Manufacturing Area Interim Action\101585.01 - 01G.1.0 (COVER SHEET)

BINDING EDGE

GENERAL PROJECT NOTES

- THE LOCATIONS OF ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTING UTILITY LOCATIONS PRIOR TO SUBSURFACE WORK. TO LOCATE UTILITIES, CALL THE UNDERGROUND LOCATE LINE AT 1-811-424-5555 OR 811.
- THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING FEATURES, ELEVATIONS, AND PROPERTY LINES SHOWN. IF DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- WHERE CONFLICTS OCCUR BETWEEN EXISTING FEATURES AND THE PLACEMENT OF NEW FACILITIES, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR, AND WILL BE RESOLVED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR FOR THIS PROJECT SHALL MAINTAIN A CLEAN, LEGIBLE SET OF THESE PLANS AND NOTE ALL DEVIATIONS THEREON. UPON COMPLETION OF THE CONSTRUCTION, SURVEYED, STAMPED AS-BUILTS SHALL BE PROVIDED TO THE ENGINEER FOR THE PREPARATION OF RECORD DRAWINGS. THE ENGINEER SHALL SUBMIT RECORD DRAWINGS TO THE CITY OF TACOMA UPON COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL COORDINATE ACTIVITIES WITH THE CITY OF TACOMA AND THE ENGINEER A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF THE BEGINNING OF WORK. THE CONTRACTOR SHALL PREPARE, SUBMIT, AND OBTAIN TRAFFIC CONTROL PERMITS FROM THE CITY PRIOR TO EXECUTING THE WORK. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE UNIMPEDED ENGINEER ACCESS THROUGHOUT THE DURATION OF THE PROJECT.
- AT ALL TIMES THE CONTRACTOR SHALL MAINTAIN SIGNS, BARRICADES, FENCING, OR OTHER MEASURES TO ENSURE CONTINUOUS PROTECTION OF THE PUBLIC AND TO PREVENT UNAUTHORIZED ENTRY INTO THE CONSTRUCTION AREA. CONTRACTOR SHALL PROVIDE ON-SITE SECURITY PERSONNEL, MINIMUM OF ONE PERSON, DURING OFF-HOURS THROUGHOUT THE DURATION OF THE PROJECT.
- DAMAGE TO ANY PROPERTY, INCLUDING BUT NOT LIMITED TO, BUILDINGS, UTILITIES, VEHICLES, FENCING, OR LANDSCAPING, AS A RESULT OF THE CONTRACTOR'S ACTIVITIES WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- SITE SOIL AND GROUNDWATER IMPACTED WITH ARSENIC.

PRE-CONSTRUCTION SUBMITTALS

- CONTRACTOR SHALL SUBMIT WORK PLAN DISCUSSING PROJECT APPROACH, SEQUENCING (IF APPROPRIATE), SCHEDULE, ANY SUBCONTRACTORS, EQUIPMENT TO BE USED, AND OTHER RELEVANT INFORMATION TO COMPLETE THE WORK.
- SITE-SPECIFIC HEALTH AND SAFETY PLAN DISCUSSING THE PROJECT SPECIFIC CONTROL ZONES, PROCEDURES, MONITORING, EMERGENCY RESPONSE TO SPILLS, ROUTE TO HOSPITAL, ETC. HASP MUST BE AT LEAST AS STRINGENT AS THE ENGINEER'S HASP.
- SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN DISCUSSING THE PROPOSED PRACTICES FOR SPILL MANAGEMENT AND RESPONSE TO SPILLS. PROVIDE A DRAWING WITH THE LOCATION OF SPILL KITS, ETC.
- PROVIDE THE SOURCE OF BORROW MATERIAL AND SAMPLES FOR CHEMICAL ANALYSIS AT LEAST TWO WEEKS PRIOR TO IMPORT TO THE SITE. BORROW MATERIALS MUST NOT EXCEED APPLICABLE MODEL TOXICS CONTROL ACT CLEANUP LEVELS.
- RELEVANT CERTIFICATIONS FOR ALL SITE WORKERS, E.G. 40-HOUR HAZWOPER, ETC.

CONSTRUCTION SUBMITTALS

- CHAIN OF CUSTODY AND LABORATORY RESULTS FOR SAMPLES COLLECTED, THESE INCLUDE BUT ARE NOT LIMITED TO, PERSONAL MONITORING SAMPLES, MATERIAL TESTING RESULTS, ETC.
- VENDOR SPECIFICATION SHEETS AND SHOP DRAWINGS FOR MATERIALS AND PRODUCTS RELATED TO THE PROJECT.

POST-CONSTRUCTION SUBMITTALS

- ANY DOCUMENTATION ON THE PROJECT THAT WAS NOT PREVIOUSLY SUBMITTED, E.G. TRUCK SCALE TICKETS FOR IMPORTED MATERIALS.

HEALTH & SAFETY

- CONTRACTOR SHALL PREPARE AND SUBMIT A SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP) THAT IS AT LEAST AS STRINGENT AS THE ENGINEER'S HASP. ALL APPLICABLE CERTIFICATIONS SHALL BE INCLUDED AS PART OF THE HASP.
- ALL PERSONNEL WORKING ON THE PROJECT MUST HAVE 40-HOUR HAZWOPER TRAINING, BE CURRENT WITH 8-HOUR REFRESHERS, AND PARTICIPATE IN A MEDICAL MONITORING PROGRAM.
- ASSIGN A SITE SAFETY OFFICER FOR THE PROJECT THAT HAS THE AUTHORITY TO SHUT THE PROJECT DOWN. SAFETY OFFICER MAY HAVE OTHER DUTIES ON SITE, SO LONG AS IT DOES NOT TAKE AWAY FROM THEIR PRIMARY ROLE AS THE SAFETY OFFICER.
- PROVIDE SAFETY DATA SHEETS (SDS) FOR ALL MATERIALS BROUGHT ONTO THE SITE. THESE MAY BE INCORPORATED INTO THE HASP TO COMPLETE THE WORK.

SURVEY NOTES - SEE SHEET G2.0

- SITE SURVEY TITLED "EXISTING TOPOGRAPHIC SURVEY FOR: PORT OF TACOMA", COMPLETED BY SITTS & HILL ENGINEERING & SURVEYING, INC., 4815 CENTER ST, TACOMA WA 98409 DATED APRIL 4, 2024.
- COORDINATES ARE REFERENCED TO WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
- ELEVATIONS SHOWN ARE REFERENCED TO NAD 83/2011.
- SURVEY BENCHMARKS:

HORIZONTAL DATUM

P.O.T. MONUMENT #178
 DESCRIPTION: LEAD AND TACK FOUND IN THE NORTHEAST GUTTER OF TAYLOR WAY.
PUBLISHED COORDINATES
 N:709882.76
 E:1175405.11

P.O.T. MONUMENT #DD'

DESCRIPTION: 3" SURFACE BRASS MONUMENT WITH PUNCH AND "TACOMA PUBLIC WORKS" FOUND IN CENTERLINE OF LINCOLN AVE, APPROX. 260' SOUTHWEST OF CENTERLINE INTERSECTION WITH TAYLOR WAY.
PUBLISHED COORDINATES
 N:712137.47
 E:1172517.33

VERTICAL DATUM

MLLW (PER PORT OF TACOMA SURVEY CONTROL MAP, DATED 2016)
 P.O.T. MONUMENT #178
 DESCRIPTION: LEAD AND TACK FOUND IN THE NORTHEAST GUTTER OF TAYLOR WAY.
PUBLISHED COORDINATES
 N:709882.76
 E:1175405.11
 MLLW ELEV.: 15.73
 TO CONVERT TO NGVD29 VALUES, REDUCE ALL ELEVATIONS BY 5.96 FEET (-5.96)
 TO CONVERT TO NAVD88 VALUES, REDUCE ALL ELEVATIONS BY 2.46 FEET (-2.46)

- FLOOD HAZARD AREAS - DESCRIBE IF APPROPRIATE
- THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL BENCH MARKS, PROPERTY LINE REFERENCES (E.G., PINS, PIPES, MONUMENTS), REFERENCE POINTS, STAKES AND ANY OTHER SURVEY REFERENCE.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY SURVEY MONUMENTS NOTED OR ENCOUNTERED IN THE FIELD. ANY DISTURBANCE SHALL BE REPAIRED BY CONTRACTOR AT NO EXPENSE TO THE OWNER OR ENGINEER. STANDARDS OF PRACTICE REQUIRE THAT "THE HORIZONTAL POSITION OF PHYSICAL FEATURES MUST BE PLOTTED TO 1/20TH INCH OF FINAL MAP SCALE". DIMENSIONS "SNAPPED" FROM THE ELECTRONIC VERSION OF THIS MAP SHOULD BE CONSIDERED TO BE NO MORE ACCURATE THAN 1/20TH OF THE MAP SCALE NOTED. CRITICAL CLEARANCE DIMENSIONS MUST BE FIELD CHECKED.

CONSTRUCTION WATER MANAGEMENT

- WATER THAT COMES INTO CONTACT WITH CONTAMINATED SOILS OR MATERIALS TO BE PROPERLY CONTAINED AND TREATED PRIOR TO DISCHARGE.
- WATER THAT DOES NOT COME INTO CONTACT WITH CONTAMINATED SOILS OR MATERIALS CAN BE DIRECTED TO PERIMETER DRAINAGES.

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) NOTES

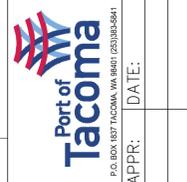
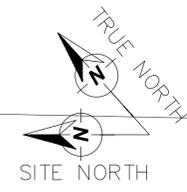
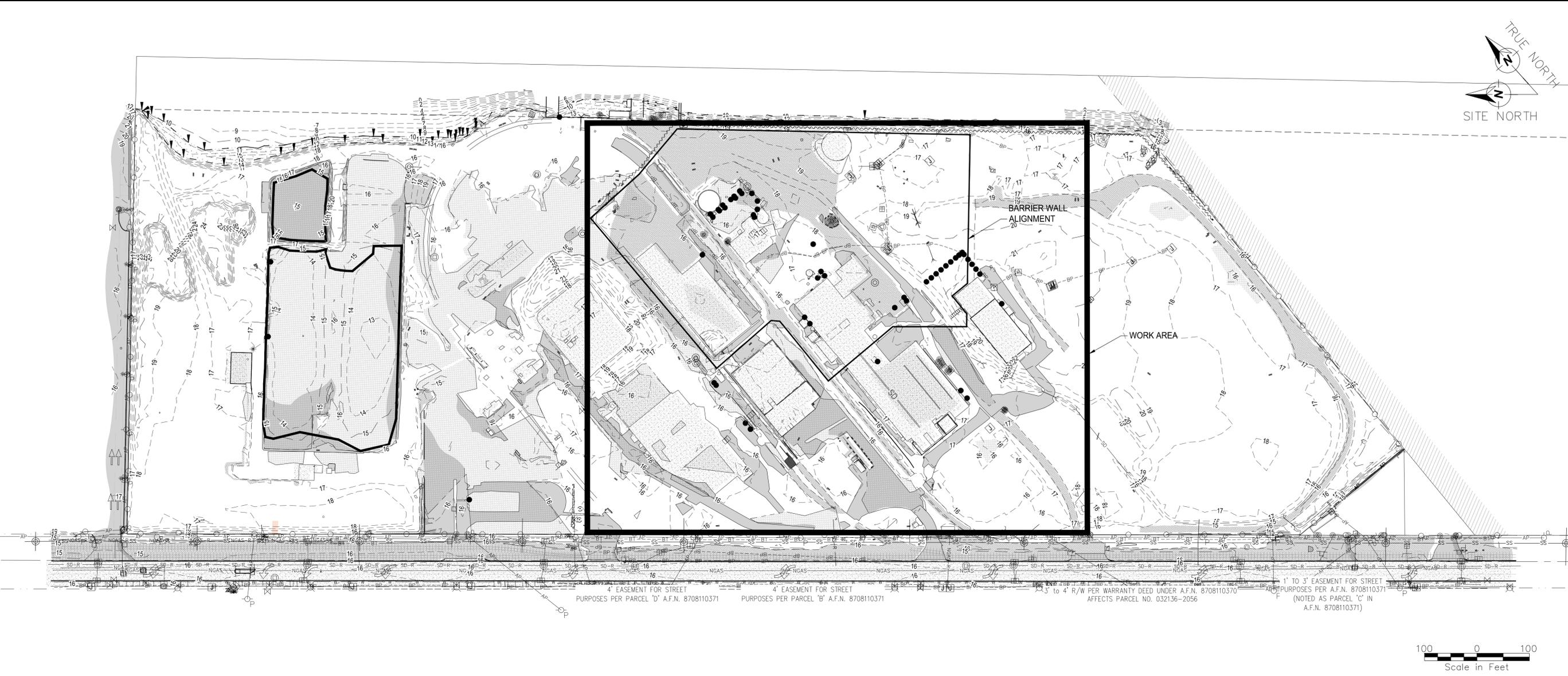
SEE SHEET D1.0

ACRONYM LIST

- TESC Temporary Erosion and Sedimentation Control
- CESCL Certified Erosion and Sediment Control Lead
- CPESC Certified Professional in Erosion and Sediment Control
- ESC Erosion and Sediment Control

6697	ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL GENERAL NOTES	APPROVED: D.HAWK 09/20/24	Part of Tacoma <small>P.O. BOX 1837 TACOMA, WA 98401 (203)834-5441</small>
G1.1 SH #2 OF #15	Preliminary 30% Design	CHECKED BY: T.LOUVERE DATE: 09/20/24	APPR: [DATE]:
CONT/CONS:	TOWNSHIP: [SECTION]:	PROJ. ENGR DATE	BY:
M. ID:	RANGE: MLLW 19.39' @ Tide 22 1933	PRINTED BY: kbepley Oct 04, 2024	REVISION:
PHASE:	VERT: WA83-SF	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	MARK:
	PARCEL: [DRAWING SCALE: AS NOTED]		

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DATE:	
APPR:	
BY:	
REVISION:	
MARK:	

Preliminary 30% Design

APPROVED:	D.HAWK	09/20/24
CHECKED BY	T.LOUVERE	09/20/24
DATE		
PROJ. ENGR		
DATE		
DIRECTOR ENG. DATE	kbeyley	Oct 04, 2024
PRINTED BY:		
PORT ADDRESS:	ONE SITCUM PLAZA	
	TACOMA, WA 98401-1837	

4' EASEMENT FOR STREET PURPOSES PER PARCEL 'D' A.F.N. 8708110371
 4' EASEMENT FOR STREET PURPOSES PER PARCEL 'B' A.F.N. 8708110371
 1' TO 3' EASEMENT FOR STREET PURPOSES PER A.F.N. 8708110371 (NOTED AS PARCEL 'C' IN A.F.N. 8708110371)
 3' to 4' R/W PER WARRANTY DEED UNDER A.F.N. 8708110370 AFFECTS PARCEL NO. 032136-2056



LEGEND

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> ○ SANITARY SEWER MANHOLE ○ UTILITY CLEAN OUT ⊕ STORM MANHOLE ⊕ STORM CATCH BASIN — STORM CULVERT ⊕ WATER MANHOLE ⊕ WATER VALVE ⊕ WATER METER ⊕ FIRE HYDRANT ⊕ IRRIGATION CONTROL VALVE ⊕ GAS VALVE ⊕ GAS RISER ⊕ POWER METER ⊕ POWER CABINET ○ UTILITY POLE ○ UTILITY POLE WITH DROP(S) ○ GUY ANCHOR ⊕ JUNCTION BOX ⊕ POWER VAULT ⊕ LIGHT POLE ⊕ TELECOM RISER ⊕ TELECOM VAULT ⊕ TELECOM JUNCTION BOX ⊕ UTILITY VAULT ⊕ UTILITY MANHOLE ⊕ UNKNOWN STAND PIPE ⊕ UNKNOWN VALVE ⊕ UNKNOWN RISER ● COLUMN FOUNDATION ● BOLLARD | <ul style="list-style-type: none"> — PARCEL LINE — ROAD CENTERLINE — RIGHT OF WAY LINE — EASEMENT LINE — SD — STORM DRAIN LINE — SD-R — RECORD STORM LINE — SS — SANITARY SEWER LINE — SS-R — RECORD SANITARY LINE — W — BURIED WATER LINE — W-R — RECORD WATER LINE — NGAS — BURIED GAS LINE — NGAS-R — RECORD GAS LINE — BP — BURIED POWER LINE — BP-R — RECORD BURIED POWER — AP — OVERHEAD POWER LINE — BT — BURIED TELECOM LINE — BT-R — RECORD TELECOM LINE ○ CHAIN LINK FENCE — RAILROAD TRACKS — WETLAND DELINEATION — 2004 POND MAPPING LIMITS — SHEARWALL/SHEET PILE WALL PER 2004 MAPPING □ SIGN ⊕ MAILBOX ⊕ ECOLOGY BLOCK ⊕ RAILROAD SWITCH ⊕ MONITORING WELL TPN TAX PARCEL NUMBER — X.X.N.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE 25 SCHED. B EXCEPTION NUMBER | <ul style="list-style-type: none"> ASPHALT SURFACE CONCRETE SURFACE GRAVEL SURFACE RIP-RAP SURFACE AREA OF STANDING WATER/ICE AT TIME OF SURVEY WETLAND AREA EASEMENT |
|---|---|--|

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011
 (PER PORT OF TACOMA SURVEY CONTROL MAP - 2016)

P.O.T. MONUMENT #178
 DESCRIPTION: LEAD AND TACK FOUND IN THE NORTHEAST GUTTER OF TAYLOR WAY.
 PUBLISHED COORDINATES
 N:70982.76
 E:1175405.11

P.O.T. MONUMENT #179
 DESCRIPTION: 3" SURFACE BRASS MONUMENT WITH PUNCH AND "TACOMA PUBLIC WORKS" FOUND IN CENTERLINE OF LINCOLN AVE. APPROX. 260' SOUTHWEST OF CENTERLINE INTERSECTION WITH TAYLOR WAY.
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MLLW (PER PORT OF TACOMA SURVEY CONTROL MAP, DATED 2016)

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 MLLW ELEV.: 15.73

TO CONVERT TO NAVD83 VALUES, REDUCE ALL ELEVATIONS BY 5.96 FEET (-5.96)

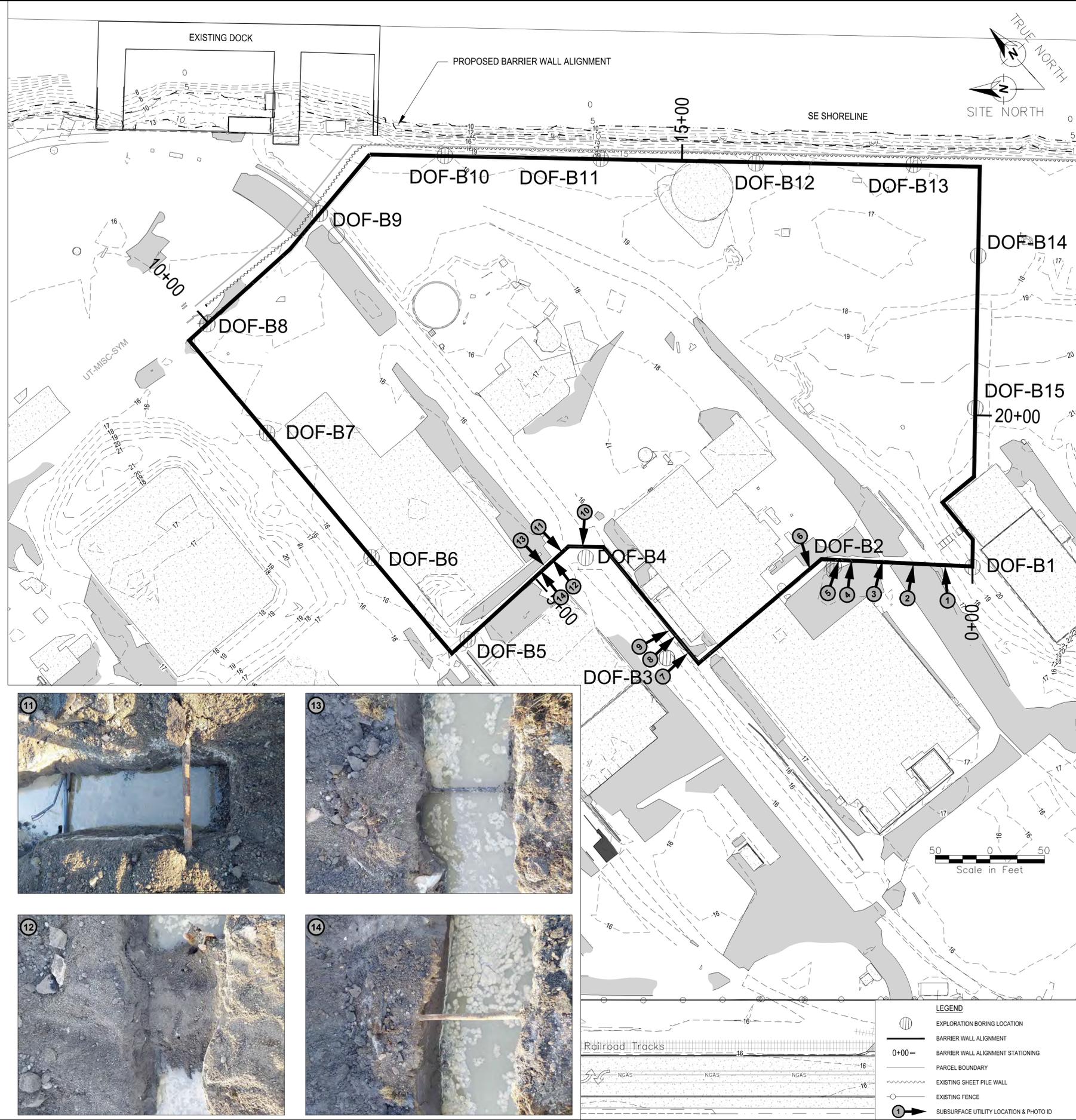
TO CONVERT TO NAVD88 VALUES, REDUCE ALL ELEVATIONS BY 2.46 FEET (-2.46)

SITE DATA

TAX PARCEL NO. 0321351053
 ADDRESS: 2901 TAYLOR WAY

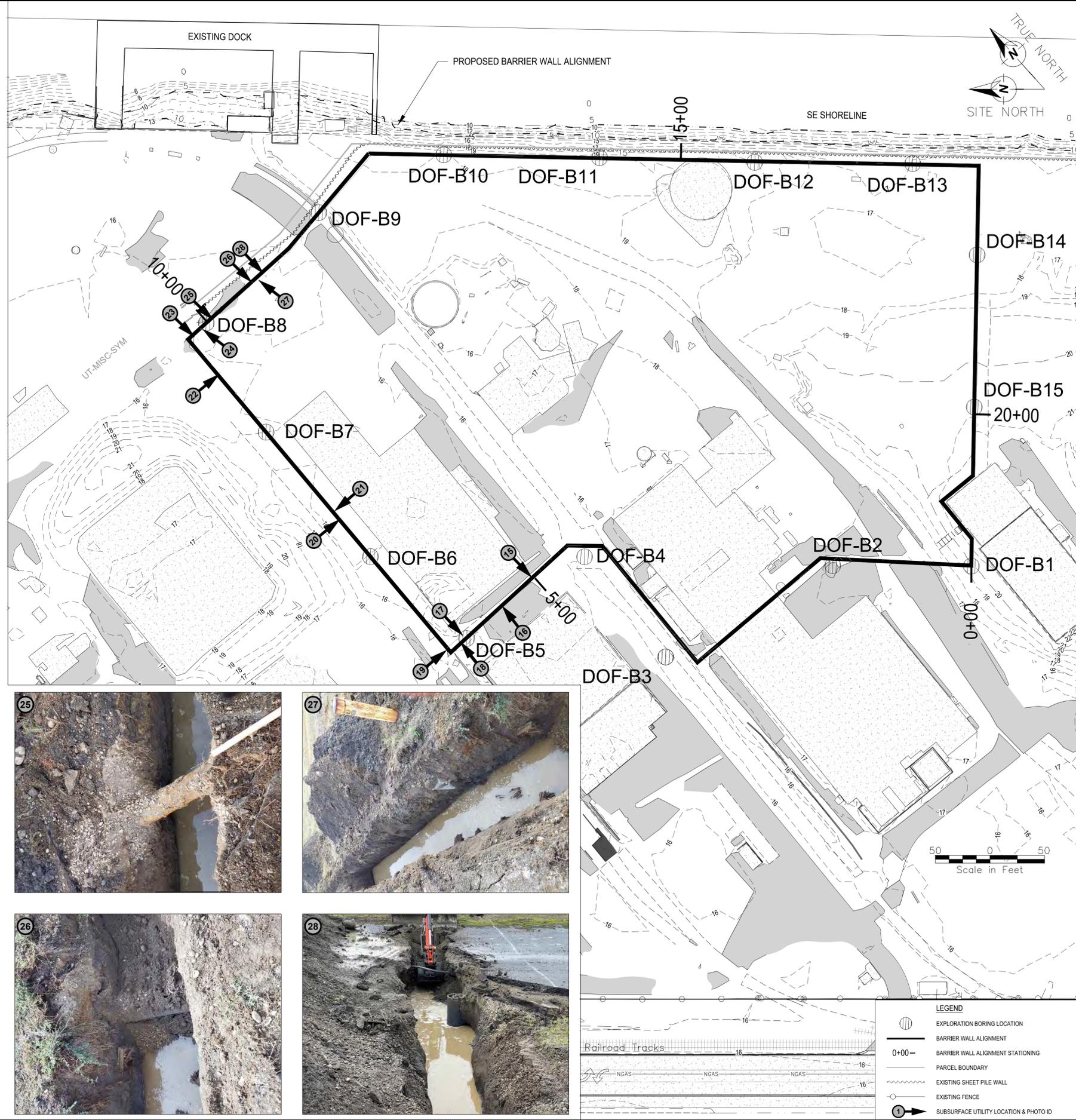
6697	ARKEMA MANUFACTURING AREA INTERIM ACTION -		
	CONTAINMENT WALL		
EXISTING SITE CONDITIONS			
CONT/CONS:	TOWNSHIP:	RANGE:	SECTION:
M. ID:	DAT-HRZ:	WA-83-SF	VERT: MLLW 19.39 @ Tide 22 1933
PHASE:	PARCEL:	DRAWING SCALE: AS NOTED	

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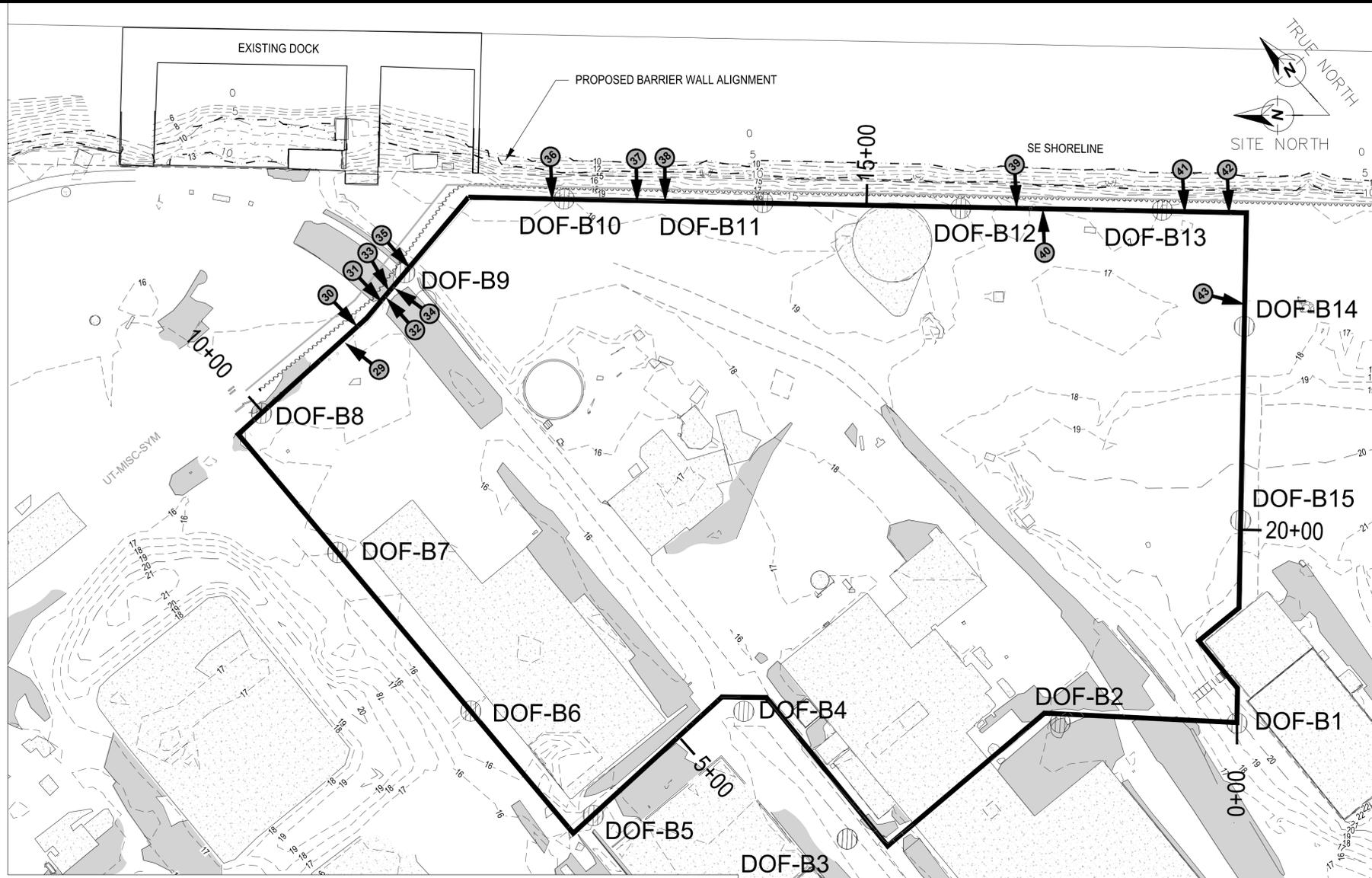
<p>6697</p> <p>G2.1</p> <p>SH #4 OF #15</p>	<p>ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL</p> <p>EXISTING CONDITIONS</p> <p>SUBSURFACE UTILITIES 1</p>		<p>APPROVED:</p> <p>D. HAWK 09/20/24</p>
	<p>CONTR/CONS:</p> <p>M. ID:</p> <p>PHASE:</p>	<p>TOWNSHIP:</p> <p>DAT-HRZ:</p> <p>PARCEL:</p>	<p>RANGE:</p> <p>SECTION:</p> <p>VERT:</p> <p>DRAWING SCALE:</p>
<p>Preliminary</p> <p>30% Design</p>		<p>MARK:</p> <p>REVISION:</p>	<p>BY:</p> <p>APPR:</p> <p>DATE:</p>

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<p>6697</p> <p>G2.2</p> <p>SH #5 OF #15</p>	<p>ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL EXISTING CONDITIONS SUBSURFACE UTILITIES 2</p>		<p>APPROVED:</p> <p>D. HAWK 09/20/24</p>
	<p>CONTR/CONS:</p> <p>M. ID:</p> <p>PHASE:</p>	<p>TOWNSHIP:</p> <p>DAT-HRZ:</p> <p>PARCEL:</p>	<p>RANGE:</p> <p>SECTION:</p> <p>VERT:</p>
<p>Port of Tacoma</p> <p>P.O. BOX 1837 TACOMA, WA 98401-1837</p>		<p>DATE:</p> <p>APPR:</p> <p>BY:</p> <p>REVISION:</p> <p>MARK:</p>	<p>Preliminary</p> <p>30% Design</p>

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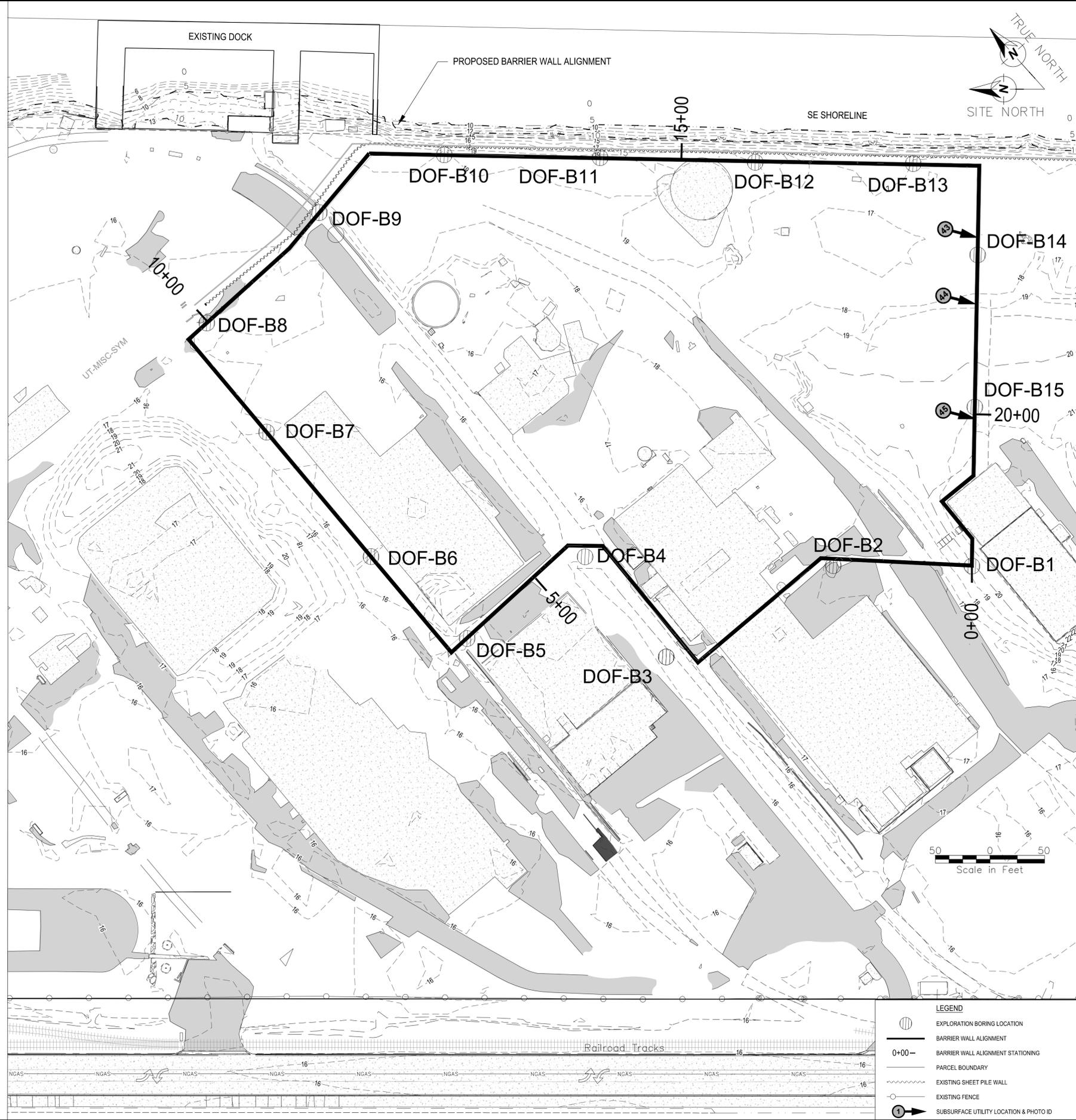
LEGEND

- EXPLORATION BORING LOCATION
- BARRIER WALL ALIGNMENT
- BARRIER WALL ALIGNMENT STATIONING
- PARCEL BOUNDARY
- EXISTING SHEET PILE WALL
- EXISTING FENCE
- SUBSURFACE UTILITY LOCATION & PHOTO ID

Scale in Feet

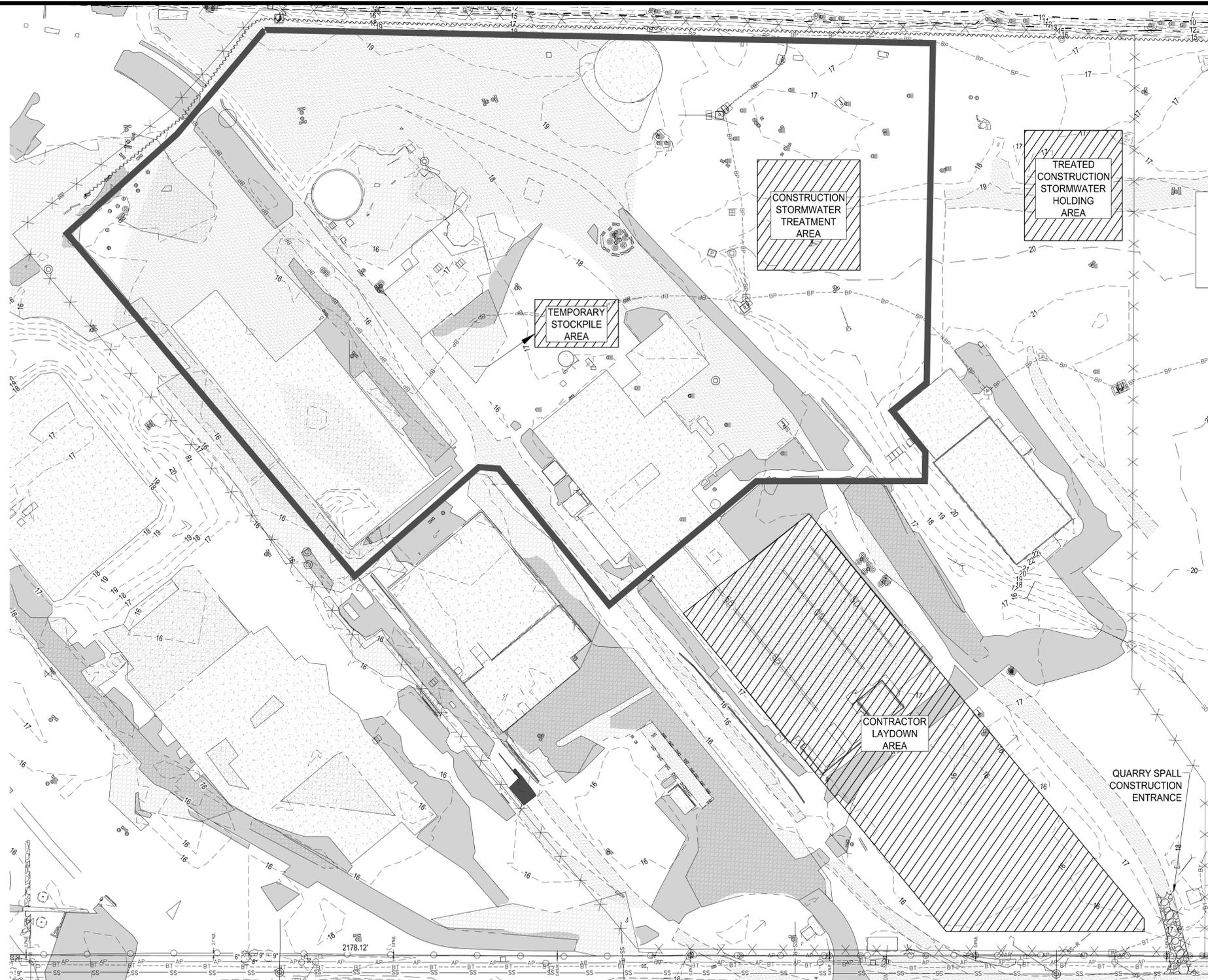
0 50 50

<p>6697</p> <p>G2.3</p> <p>SH #6 OF #15</p>	<p>ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL EXISTING CONDITIONS SUBSURFACE UTILITIES 3</p>		<p>APPROVED:</p> <p>D. HAWK 09/20/24</p>
	<p>CONTR/CONS:</p> <p>M. ID:</p> <p>PHASE:</p>	<p>TOWNSHIP:</p> <p>DAT-HRZ:</p> <p>PARCEL:</p>	<p>RANGE:</p> <p>SECTION:</p> <p>VERT:</p> <p>DRAWING SCALE:</p>
<p>6697</p>		<p>Preliminary 30% Design</p>	
<p>101585.01</p>		<p>DATE:</p>	



<p>6697</p> <p>G2.4</p> <p>SH #7 OF #15</p>	<p>ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL EXISTING CONDITIONS SUBSURFACE UTILITIES 4</p>		<p>APPROVED:</p> <p>D. HAWK 09/20/24</p>
	<p>CONT/CONS: 101585.01</p> <p>PHASE:</p>	<p>TOWNSHIP: WA.83-SF</p> <p>DAT-HRZ: 19.39 @ Tide 22 1933</p> <p>PARCEL: DRAWING SCALE: AS NOTED</p>	<p>DIRECTOR ENG. DATE: kbeyley Oct 04, 2024</p> <p>PRINTED BY: kbeyley Oct 04, 2024</p> <p>PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837</p>
<p>Preliminary 30% Design</p>		<p>MARK: REVISION:</p>	<p>DATE: 09/20/24</p> <p>DATE: 09/20/24</p>
<p>BY: APPR:</p>		<p>REVISION:</p>	<p>DATE: 09/20/24</p> <p>DATE: 09/20/24</p>

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TEMPORARY EROSION AND SEDIMENT CONTROL (TESC)

- 1. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED. VEGETATION/LANDSCAPING IS ESTABLISHED AND THE ENTIRE SITE IS STABILIZED.
2. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION DURING THE CONSTRUCTION PERIOD. NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. THE FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED PRIOR TO AND/OR 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 TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. TESC 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 CESCL, CPESC, OR ESC LEAD SHALL BE IDENTIFIED IN THE SWPPP AND SHALL BE ONSITE OR ON-CALL AT ALL TIMES.
6. THE CESCL, CPESC, OR ESC LEAD MUST BE KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL AND HAVE THE SKILLS TO ASSESS:
A. SITE CONDITIONS AND CONSTRUCTION ACTIVITIES THAT COULD IMPACT THE QUALITY OF STORMWATER.
B. EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES USED TO CONTROL QUALITY OF STORMWATER DISCHARGES.
7. THE CESCL, CPESC, OR ESC LEAD MUST EXAMINE STORMWATER VISUALLY FOR THE PRESENCE OF SUSPENDED SEDIMENT, TURBIDITY, DISCOLORATION, AND OIL SHEEN AND EVALUATE THE EFFECTIVENESS OF BMPs TO DETERMINE IF IT IS NECESSARY TO INSTALL, MAINTAIN, OR REPAIR BMPs.
8. THE CESCL, CPESC, OR ESC LEAD MUST INSPECT ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. ALL BMPs, AND ALL STORMWATER DISCHARGE POINTS AT LEAST ONCE EVERY CALENDAR WEEK AND WITHIN 24 HOURS OF ANY DISCHARGE FROM THE SITE. (INDIVIDUAL DISCHARGE EVENTS THAT LAST MORE THAN ONE DAY DO NOT REQUIRE DAILY INSPECTIONS). THE CESCL OR INSPECTOR MAY REDUCE THE INSPECTION FREQUENCY FOR TEMPORARY STABILIZED, INACTIVE AREAS TO ONCE EVERY CALENDAR MONTH.
9. CONSTRUCTION SITE OPERATORS MUST CORRECT ANY PROBLEMS IDENTIFIED BY THE CESCL, CPESC, OR ESC LEAD BY:
A. REVIEWING THE SWPPP FOR COMPLIANCE WITH THE CONSTRUCTION SWPPP ELEMENTS AND MAKING APPROPRIATE REVISIONS WITHIN 7 DAYS OF THE INSPECTION.
B. FULLY IMPLEMENT AND MAINTAIN APPROPRIATE SOURCE CONTROL AND/OR TREATMENT BMPs AS SOON AS POSSIBLE BUT CORRECTING THE PROBLEM WITHIN 10 DAYS.
C. DOCUMENTING BMP IMPLEMENTATION AND MAINTENANCE IN THE SITE LOG BOOK.
10. SAMPLING AND ANALYSIS OF THE STORMWATER DISCHARGES FROM A CONSTRUCTION SITE MAY BE NECESSARY ON A CASE-BY-CASE BASIS TO ENSURE COMPLIANCE WITH STANDARDS. ECOLOGY OR THE CITY WILL ESTABLISH THESE MONITORING AND ASSOCIATED REPORTING REQUIREMENTS.
11. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN SEDIMENT TRAP.
12. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSIDE DRAINAGE SYSTEM.
13. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
14. POLLUTION PREVENTION NOTES
1. EQUIPMENT LUBRICATION AND FUELING OPERATIONS SHALL OCCUR AT APPROVED LOCATIONS.
2. PREVENT OILS AND FUELS FROM CONTACTING EXISTING SITE SURFACE WITH PROPER CONTAINMENT DEVICES.
3. ACCESS TO CONSTRUCTION IS VIA GRAVEL AND ASPHALT ROADS. MAINTAIN ACCESS ROADS INCLUDING BUT NOT LIMITED TO SWEEPING AND PLACEMENT OF ADDITIONAL GRAVEL AS NEEDED. THE INTENT IS TO PREVENT DIRT AND DEBRIS FROM VEHICLES AND EQUIPMENT FROM BEING DEPOSITED ON CITY OWNED STREETS.
4. SPILL CLEANUP PROCEDURES SHALL BE POSTED ON-SITE. IN CASE OF A SPILL THAT MAY ENTER GROUNDWATER, SURFACE WATER, OR STORM DRAIN SYSTEM, CONTACT WASHINGTON STATE EMERGENCY MANAGEMENT DIVISION AT (800) 258-5990 AND THE NATIONAL RESPONSE CENTER AT (800) 424-8802. SPILLS SHALL BE CLEANED UP IMMEDIATELY AND CONTAINED MATERIAL DISPOSED OF PROPERLY.
5. THE CONTRACTOR SHALL PREVENT ALL MATERIAL USED OR GENERATED ON-SITE FROM ENTERING THE STORM DRAINAGE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE CONTAINMENT SEPARATION AT ALL TIMES. ALL STORMWATER POLLUTION PREVENTION MEASURES SHALL BE COORDINATED WITH ENGINEER REPRESENTATIVE TO ENSURE COMPLIANCE WITH APPLICABLE STORMWATER PERMITS. CONTACT ANITA FICHTHORNE AT (253) 830-5379 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION.
6. THE CONTRACTOR SHALL CONDUCT A DAILY STORMWATER/ENVIRONMENTAL INSPECTION OF THE CONSTRUCTION SITE. SCOPE OF THE INSPECTION SHALL BE COORDINATED WITH THE ENGINEER REPRESENTATIVE CONTACT ANITA FICHTHORNE AT (253) 830-5379.
7. THE CONTRACTOR SHALL FOLLOW ALL ENVIRONMENTAL AND OTHER REQUIREMENTS AS DEFINED IN THE PROJECT SWPPP.
8. THE CONTRACTOR SHALL SUBMIT DOCUMENTATION SUPPORTING THE CURRENT CERTIFICATION OF THE CONTRACTOR'S DESIGNATED CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL). THE DOCUMENT SHALL CONTAIN AT A MINIMUM THE FOLLOWING INFORMATION: NAME, CESCL NUMBER, AND EXPIRATION DATE.
15. STOCKPILE NOTES
1. STOCKPILES SHALL BE STABILIZED (WITH PLASTIC COVERING OR OTHER APPROVED DEVICE) DAILY BETWEEN NOVEMBER 1 AND MARCH 31 AND IN ADVANCE OF ANY RAIN EVENT.
2. IN ANY SEASON, SEDIMENT LEACHING FROM A STOCKPILE MUST BE PREVENTED.
16. CATCH BASIN PROTECTION NOTES
1. CATCH BASIN INSERTS SHALL BE PROVIDED IN THE CATCH BASINS NOTED ON THE PLANS AS PART OF MOBILIZATION AND PRIOR TO GROUND DISTURBANCE ACTIVITIES. CATCH BASIN INSERTS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND SHALL REMAIN IN SERVICE UNTIL FINAL SITE STABILIZATION.
2. CATCH BASIN INSERTS SHALL BE BOWHEAD STREAMGUARD CATCH BASIN INSERT #3003, ADVANCED ENVIRONMENTAL SOLUTIONS, OR EQUIVALENT AS APPROVED BY THE ENGINEER. IF AN EQUIVALENT IS PROPOSED, THE ENGINEER SHALL BE PROVIDED INFORMATION FOR REVIEW 1 WEEK PRIOR TO PROPOSED INSTALLATION.
3. CATCH BASIN INSERTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. CATCH BASIN INSERTS SHALL BE REMOVED FOLLOWING COMPLETION OF CONSTRUCTION AND STABILIZATION OF ALL DISTURBED AREAS.
17. CONSTRUCTION ENTRANCE NOTES
1. MATERIAL SHALL BE 1/2 INCH TO 3/4 INCH QUARRY SPALLS AND MAY BE TOP-DRESSED WITH 1/2 INCH TO 3/4 INCH ROCK. (STATE STANDARD SPECIFICATIONS, SECTION 8-15)
2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 50-FEET WIDE FOR THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA. THE ENTRANCE GATE MAY BE NARROWER THAN 50 FEET.
3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
4. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF PRIOR TO THE VEHICLE ENTERING THE PAVED STREET. THE WASHING SHALL OCCUR ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO AN AREA WITHIN THE SILT FENCE OR THROUGH THE SILT FENCE.
18. SILT FENCE NOTES
1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POSTS.
2. POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. THIS TRENCH SHALL BE BACKFILLED WITH WASHED GRAVEL.
4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG. THE WIRES OR HOG RINGS, THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
7. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SILT FENCES WILL BE INSTALLED PARALLEL TO ANY SLOPE CONTOURS.
10. DO NOT INSTALL BELOW AN OUTLET OF A PIPE OR WEIR.
11. DO NOT DRIVE OVER OR FILL OVER SILT FENCES.
12. PLACE 1-FOOT OF 3/4-INCH TO 1-1/2-INCH WASHED ROCK OR PEA GRAVEL ON BOTH SIDES OF THE FENCE TO CREATE A BEVEL AT THE BASE OF THE SILT FENCE.
13. FABRIC SHALL COVER BOTTOM OF 6 INCH X 6 INCH TRENCH AND EXTEND BEYOND THE LIMITS OF THE GRAVEL IN ORDER TO MAINTAIN AN EXCESS OVERLAP OF 2 INCH MINIMUM AS SHOWN IN TYPICAL CROSS-SECTION (DETAIL 2 ON SHEET D1.1).

LEGEND

- Sanitary Sewer Manhole, Utility Clean Out, Storm Manhole, Storm Catch Basin, Storm Culvert, Water Manhole, Water Valve, Water Meter, Fire Hydrant, Irrigation Control Valve, Gas Valve, Gas Riser, Power Meter, Power Cabinet, Utility Pole, Storm Pole with Dropps, GUY Anchor, Junction Box, Power Vault, Tax Parcel Number, Distance and Direction of Noted Object from Property Line, SCHED. B EXCEPTION NUMBER, Light Pole, Telecom Riser, Telecom Vault, Telecom Junction Box, Utility Vault, Utility Manhole, Unknown Stand Pipe, Unknown Valve, Unknown Riser, Column, Bollard, Sign, Mailbox, Ecology Block, Railroad Switch, Monitoring Well, Parcel Line, Road Centerline, Right of Way Line, Easement Line, Storm Drain Line, Record Storm Line, Sanitary Sewer Line, Record Sanitary Line, Buried Water Line, Record Water Line, Buried Gas Line, Record Gas Line, Buried Power Line, Record Buried Power, Overhead Power Line, Buried Telecom Line, Record Telecom Line, Chain Link Fence, Asphalt Surface, Concrete Surface, Gravel Surface, Rip-Rap Surface, Area of Standing Water/Ice at Time of Survey, Wetland Area, Easement, Silt Fence, Barrier Wall Alignment, Shearwall/Sheet Pile Wall per 2004 Mapping, Railroad Tracks, Wetland Delineation

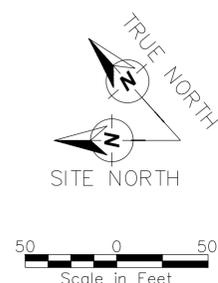


Table with columns: MARK, REVISION, BY, APPR, DATE. Contains revision history information.

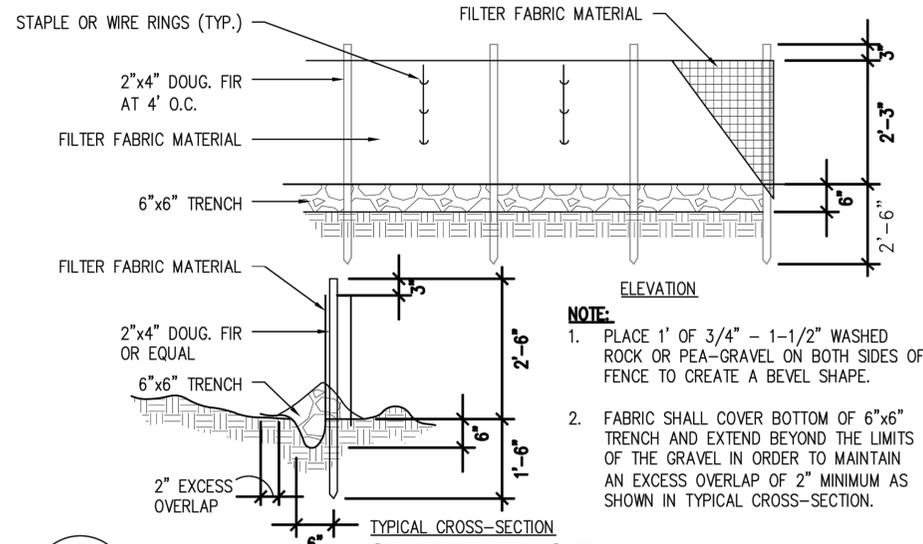
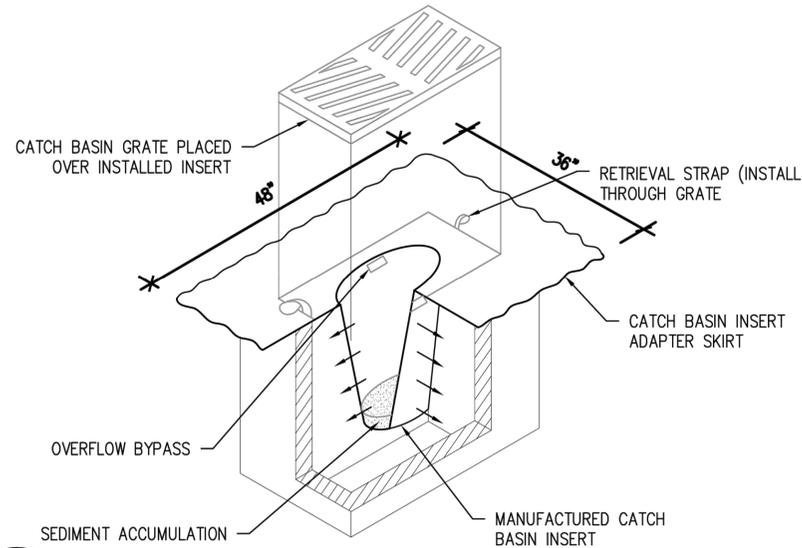
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Table with columns: CHECKED BY, DATE, PRINTED BY, DATE, DIRECTOR ENG. DATE. Includes names and dates for project review.

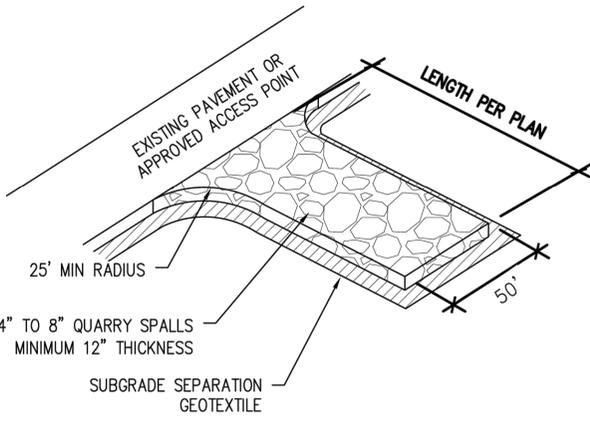
ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLAN

Table with columns: CONT/CONS, SH # OF #15, TOWNSHIP, RANGE, SECTION, DAT-HRZ, VERT, PHASE. Includes project identification and mapping details.

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- NOTES:**
1. DRIVEWAY SHALL MEET REQUIREMENTS OF THE CITY OF TACOMA.
 2. IT IS RECOMMENDED THAT THE ENTRANCE IS CROWNED SO THAT RUNOFF DRAINS OFF THE PAD.
 3. RECYCLED CONCRETE CEMENT OR ASPHALT RUBBLE CANNOT BE USED FOR QUARRY SPALLS.
 4. NON-WOVEN SEPARATION GEOTEXTILE SHALL COMPLY WITH WSDOT STANDARD SPECIFICATIONS 9-33.2(1), TABLE 3.
 5. QUARRY SPALLS SHALL COMPLY WITH WSDOT STANDARD SPECIFICATIONS 9-13.1(1) AND 9-13.1(5).



1
D1.1-8
CATCH BASIN PROTECTION
SCALE: NTS

2
D1.1-8
SILT FENCE
SCALE: NTS

3
D1.1-8
TESC CONSTRUCTION ENTRANCE
SCALE: NTS

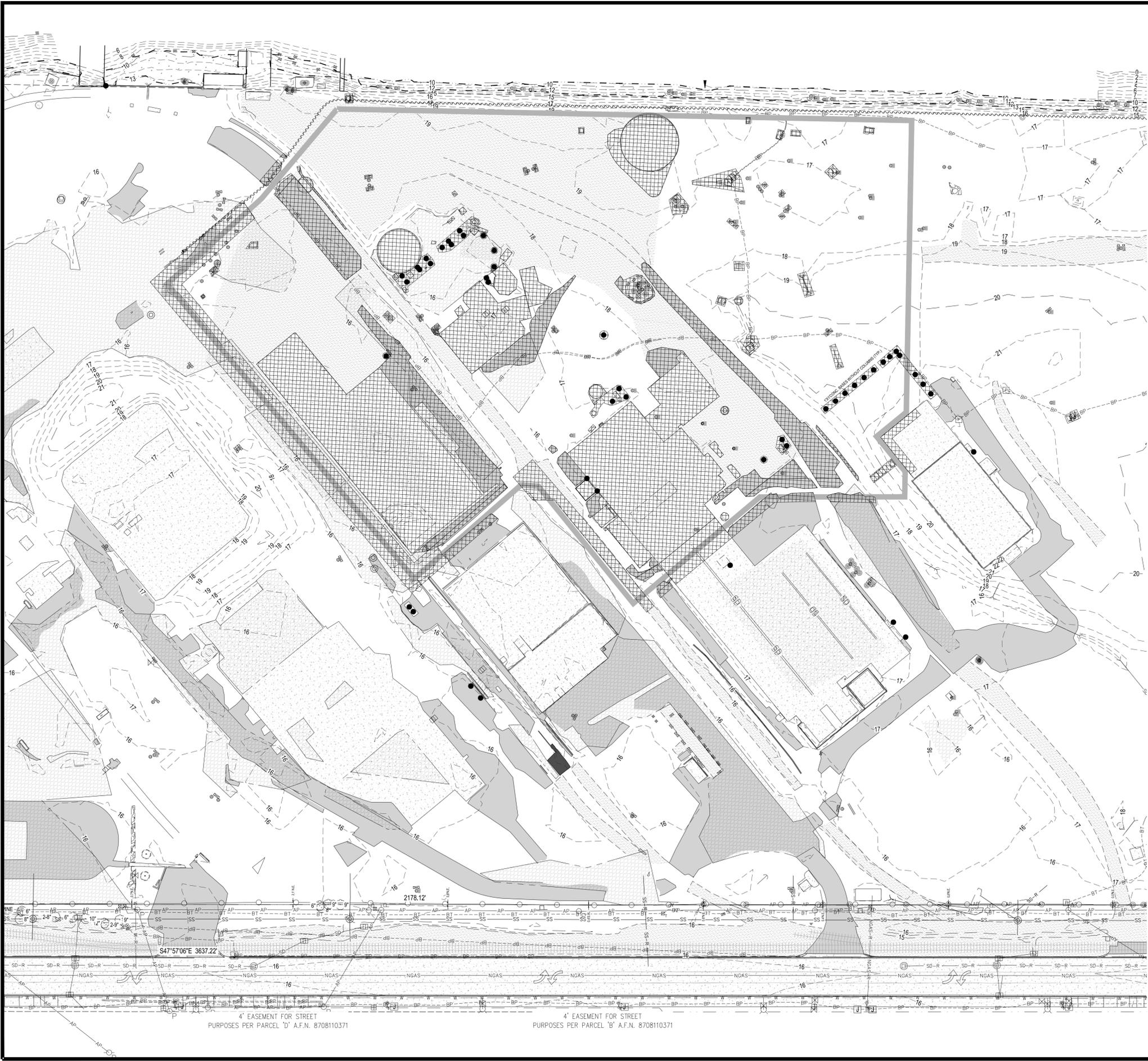
6697 D1.1 SH #9 OF #15	ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL		APPROVED:	D.HAWK	09/20/24
	TESC DETAILS		CHECKED BY:	T.LOUVIERE	09/20/24
CONT/CONS:	TOWNSHIP:	RANGE:	SECTION:	DIRECTOR ENG. DATE	PROJ. ENGR DATE
PHASE:	DAT-HRZ:	VERT:	MLLW 19.39 @ Tide 22 1933	PRINTED BY: kbeoley	Oct 04, 2024
	PARCEL:	DRAWING SCALE:	AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837

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P.O. BOX 1837 TACOMA, WA 98401 (253)343-5441

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LEGEND

- SANITARY SEWER MANHOLE
 - UTILITY CLEAN OUT
 - ⊕ STORM MANHOLE
 - ⊕ STORM CATCH BASIN
 - ⊕ STORM CULVERT
 - ⊕ WATER MANHOLE
 - ⊕ WATER VALVE
 - ⊕ WATER METER
 - ⊕ FIRE HYDRANT
 - ⊕ IRRIGATION CONTROL VALVE
 - ⊕ GAS VALVE
 - ⊕ GAS RISER
 - ⊕ POWER METER
 - ⊕ POWER CABINET
 - ⊕ UTILITY POLE
 - ⊕ UTILITY POLE WITH DROP(S)
 - ⊕ GUY ANCHOR
 - ⊕ JUNCTION BOX
 - ⊕ POWER VAULT
 - ⊕ LIGHT POLE
 - ⊕ TELECOM RISER
 - ⊕ TELECOM VAULT
 - ⊕ TELECOM JUNCTION BOX
 - ⊕ UTILITY VAULT
 - ⊕ UTILITY MANHOLE
 - ⊕ UNKNOWN STAND PIPE
 - ⊕ UNKNOWN VALVE
 - ⊕ UNKNOWN RISER
 - COLUMN
 - BOLLARD
 - ⊕ SIGN
 - ⊕ MAILBOX
 - ⊕ ECOLOGY BLOCK
 - ⊕ RAILROAD SWITCH
 - ⊕ MONITORING WELL
 - ⊕ TPN TAX PARCEL NUMBER
 - XXN.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
 - ⊕ SCHED. B EXCEPTION NUMBER
- PARCEL LINE
 - ROAD CENTERLINE
 - RIGHT OF WAY LINE
 - EASEMENT LINE
 - SD STORM DRAIN LINE
 - SD-R RECORD STORM LINE
 - SS-SANITARY SEWER LINE
 - SS-R RECORD SANITARY LINE
 - W BURIED WATER LINE
 - W-R RECORD WATER LINE
 - NGAS BURIED GAS LINE
 - NGAS-R RECORD GAS LINE
 - BP BURIED POWER LINE
 - BP-R RECORD BURIED POWER
 - AP OVERHEAD POWER LINE
 - BT BURIED TELECOM LINE
 - BT-R RECORD TELECOM LINE
 - CHAIN LINK FENCE
 - RAILROAD TRACKS
 - WETLAND DELINEATION
 - 2004 POND MAPPING LIMITS
 - SHEARWALL/SHEET PILE WALL PER 2004 MAPPING
 - ASPHALT SURFACE
 - CONCRETE SURFACE
 - GRAVEL SURFACE
 - RIP-RAP SURFACE
 - AREA OF STANDING WATER/ICE AT TIME OF SURVEY
 - WETLAND AREA
 - EASEMENT
 - TO BE DEMOLISHED

NOTES

- REMOVE ALL DELETERIOUS MATERIAL FOUND ON-SITE INCLUDING SCRAP WOOD, TRASH, ETC. AND DISPOSE OF AT AN APPROVED OFF-SITE LOCATION.
- REMOVE ALL RAIL TIES WITHIN 10-FOOT ON EITHER SIDE OF THE BARRIER WALL ALIGNMENT. PREPARE RAIL TIES FOR DISPOSAL BY REMOVING EXCESS SOIL FROM THE RAIL TIES, AND PROVIDE TRANSPORTATION AND DISPOSAL OF RAIL TIES AT A FACILITY APPROVED BY THE ENGINEER. AVERAGE SPACING OF TIES IS APPROXIMATELY 40 TIES PER 65 LINEAR FEET OF TRACK ALIGNMENT.
- REMOVE ALL CONCRETE WITHIN 10-FOOT ON EITHER SIDE OF THE BARRIER WALL ALIGNMENT. CONCRETE TO BE STOCKPILED ON-SITE AT A LOCATION DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- REMOVE ALL ASPHALT WITHIN 10-FOOT ON EITHER SIDE OF THE BARRIER WALL ALIGNMENT. CONCRETE TO BE STOCKPILED ON-SITE AT A LOCATION DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- ALL REINFORCING STEEL PRODUCED AS PART OF DEMOLITION WORK SHALL BE RECYCLED AT A CERTIFIED RECYCLING FACILITY APPROVED BY THE ENGINEER.
- ABANDON ALL UTILITIES, AS SHOWN IN THE EXISTING CONDITIONS FIGURES OF THE PLAN SET, BY REMOVING OF EACH UTILITY 3 FEET ON EITHER SIDE OF THE BARRIER WALL ALIGNMENT AND GROUTING EACH END CLOSED WITH A SUITABLE LENGTH PLUG OF NON-SHRINK GROUT.
- MONITORING WELLS SE1-1, SE2-1, AND SE8-1 WILL BE ABANDONED BY THE ENGINEER AND WILL COINCIDE WITH CONTRACTOR MOBILIZATION ACTIVITIES.



P.O. BOX 1837 TACOMA, WA 98401-1837

DATE: _____

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BY: _____

REVISION: _____

MARK: _____

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APPROVED:	D.HAWK	09/20/24	
CHECKED BY:	T.LOUVERIE	09/20/24	DATE
DIRECTOR ENG. DATE	PROJ. ENGR	DATE	
PRINTED BY: kbeqley	Oct 04, 2024		
PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837		

6697

D2.0

SH #10 OF #15

**ARKEMA MANUFACTURING AREA INTERIM ACTION -
CONTAINMENT WALL
DEMOLITION PLAN**

FOUNDATION

TOWNSHIP: RANGE: SECTION: TIDE: 22 1933

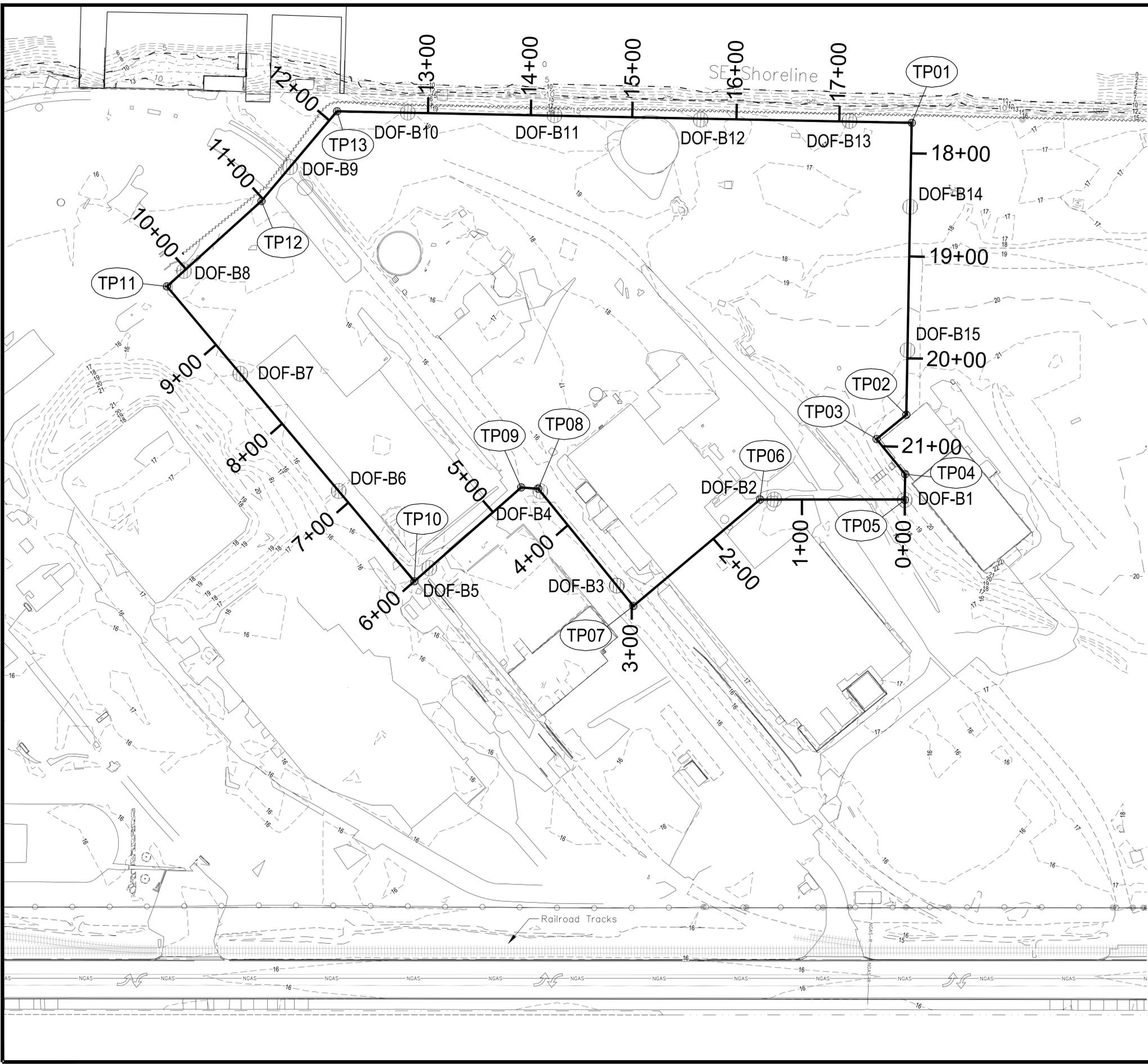
DATE-HRZ: WA83-SF VERT: MLLW 19.39 @ TIDE 22 1933

PARCEL: DRAWING SCALE: AS NOTED

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BINDING EDGE



LEGEND

- EXPLORATION BORING LOCATION
- TURNING POINT LOCATION
- BARRIER WALL ALIGNMENT
- BARRIER WALL ALIGNMENT STATIONING
- PARCEL BOUNDARY
- EXISTING SHEET PILE WALL
- EXISTING FENCE
- MAJOR ELEVATION CONTOUR (5' INTERVAL)
- MINOR ELEVATION CONTOUR (1' INTERVAL)

TURNING POINT (TP) COORDINATES

TP	X	Y
01	1175525.27	710866.98
02	1175331.86	710660.21
03	1175294.61	710662.07
04	1175292.52	710618.11
05	1175275.46	710599.84
06	1175171.16	710694.33
07	1175010.51	710700.03
08	1175017.93	710846.32
09	1175006.47	710858.40
10	1174868.35	710860.33
11	1174880.91	711233.79
12	1175004.54	711233.81
13	1175117.39	711249.31

Scale in Feet

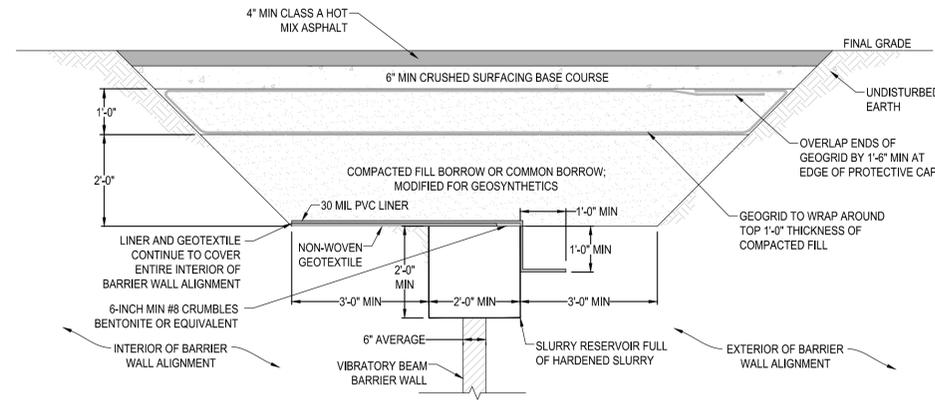
<p>6697</p> <h1 style="margin: 0;">C1.0</h1> <p>SH #11 OF #15</p>	<p>ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL CONTAINMENT WALL ALIGNMENT PLAN</p>		<p>APPROVED:</p>	<p>D. HAWK 09/20/24</p>
	<p>CONT/CONS:</p>	<p>TOWNSHIP:</p>	<p>RANGE:</p>	<p>CHECKED BY DATE</p>
<p>M. ID:</p>	<p>DATE-HRZ:</p>	<p>VERT:</p>	<p>PROJ. ENGR DATE</p>	<p>T. LOUVIERE 09/20/24</p>
<p>PHASE:</p>	<p>PARCEL:</p>	<p>DRAWING SCALE:</p>	<p>PRINTED BY:</p>	<p>DATE</p>
			<p>PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837</p>	<p>BY:</p>
			<p>MARK:</p>	<p>REVISION:</p>
			<p>APPR:</p>	<p>DATE:</p>

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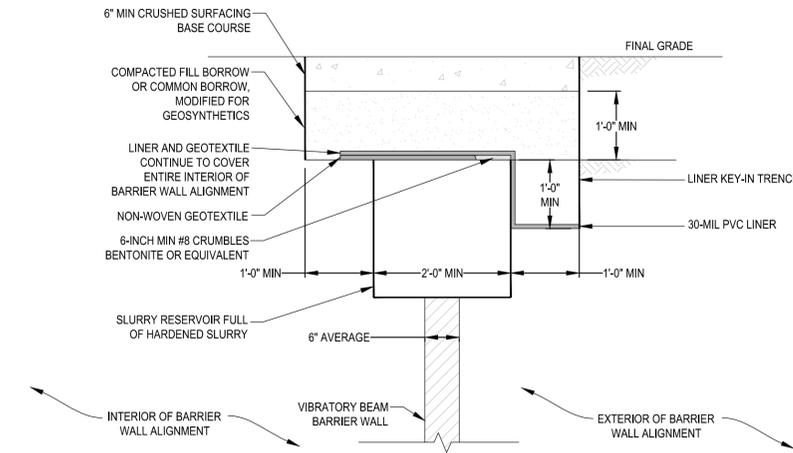
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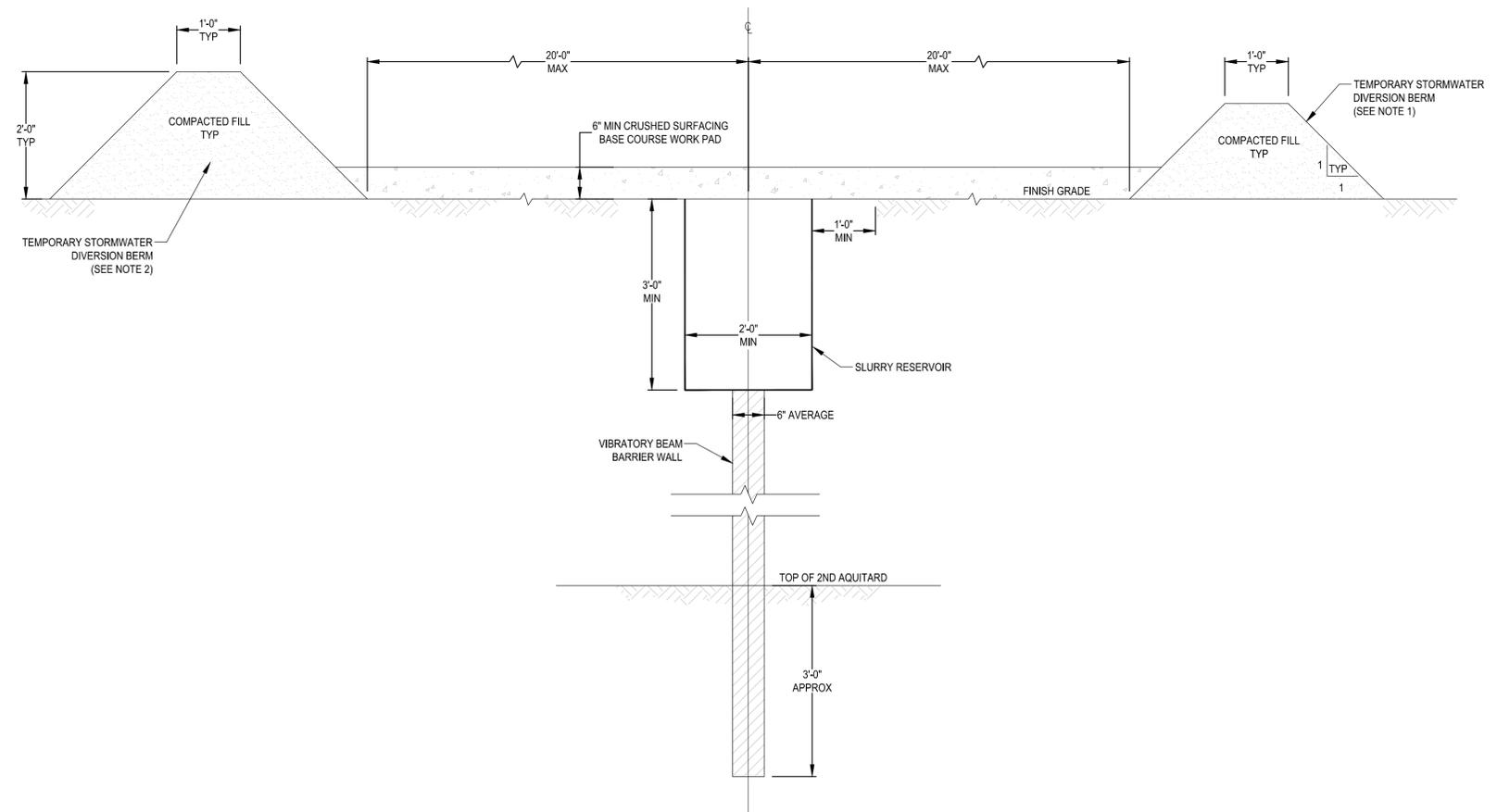
- NOTES
1. CONSTRUCT TEMPORARY STORMWATER BERM OUTSIDE THE BARRIER WALL ALIGNMENT PRIOR TO START OF ANY OTHER CONSTRUCTION. EXISTING BERMS THAT SATISFY THE MINIMUM REQUIREMENTS FOR THE TEMPORARY STORMWATER BERM MAY BE USED WITH THE APPROVAL OF THE ENGINEER. REMOVE THE TEMPORARY STORMWATER BERM AFTER CONSTRUCTION OF THE BARRIER WALL AND PROTECTION CAP.
 2. INSTALL TEMPORARY STORMWATER DIVERSION BERM IN THE AREA CONTAINED BY THE BARRIER WALL TO THE EXTENT NECESSARY TO ISOLATE TRENCH SLURRY FROM EXISTING SITE FEATURES. THE BERM MAY BE MOVED PROGRESSIVELY AS THE SLURRY TRENCH IS CONSTRUCTED.
 3. WHERE PARTIAL DEMOLITION OF EXISTING ASPHALT PAVEMENTS OR CONCRETE SLABS AND FOUNDATIONS IS REQUIRED FOR CONSTRUCTION OF THE BARRIER WALL, THE AREA OUTSIDE OF THE PROTECTIVE CAP SHALL BE HYDROSEDED FOR PERMANENT SOIL STABILIZATION.
 4. BARRIER WALL TO BE OVERLAIN BY SOIL-BENTONITE WALL PROTECTION CAP (SEE DETAIL 1).



1 BARRIER WALL PROTECTIVE CAP WHERE SUBJECT TO TRAFFIC
SCALE: NTS



2 BARRIER WALL PROTECTIVE CAP WHERE NOT SUBJECT TO TRAFFIC LOAD
SCALE: NTS

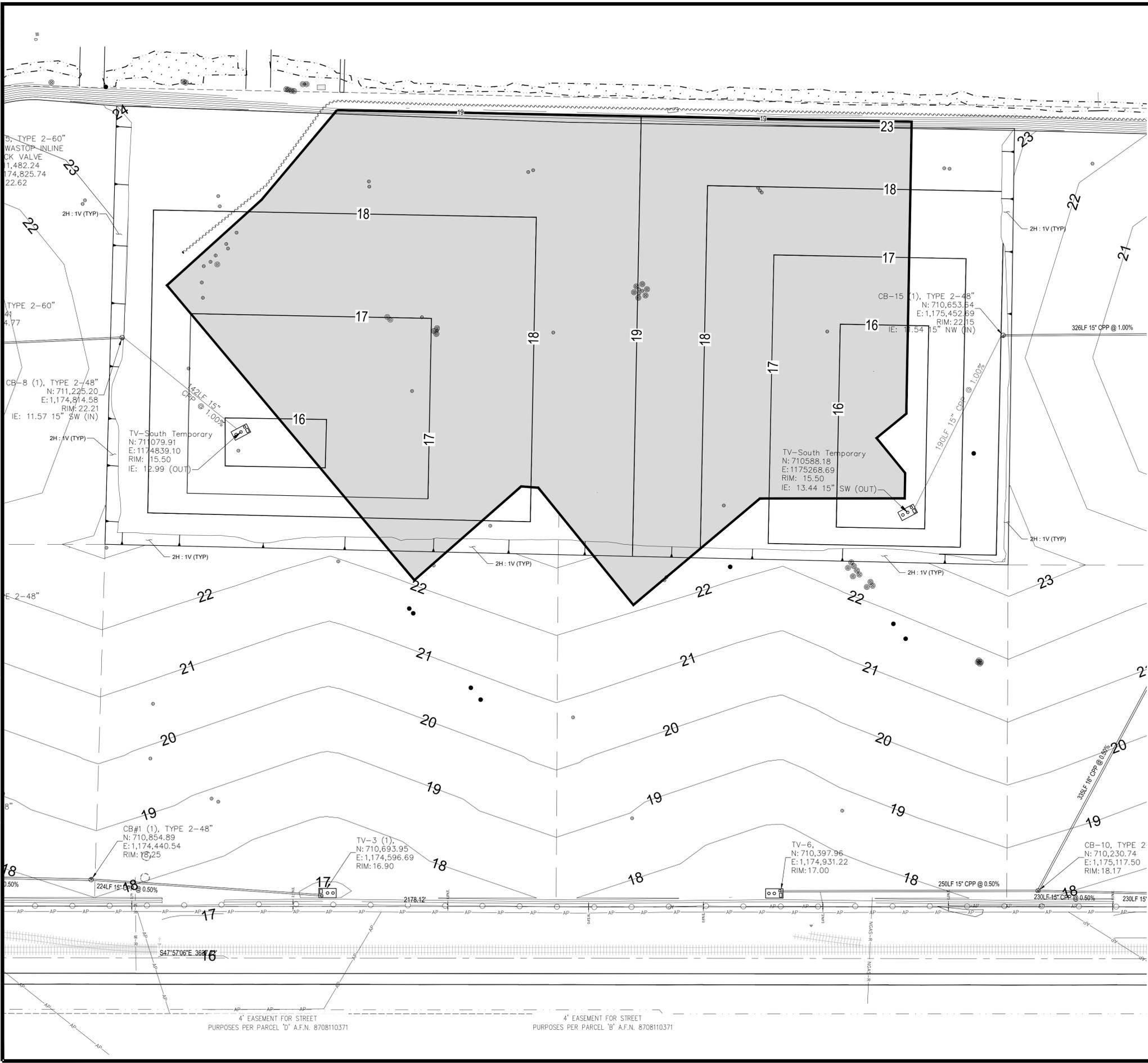


3 TYPICAL SECTION THROUGH BARRIER WALL DURING CONSTRUCTION
SCALE: NTS

	DATE:	
	APPR:	
<p>Preliminary 30% Design</p>	BY:	
	REVISION:	
MARK:		
<p>ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL CONTAINMENT WALL DETAILS</p>	<p>D. HAWK 09/20/24 CHECKED BY DATE</p> <p>T. LOUVIERE 09/20/24 PROJ. ENGR DATE</p> <p>DIRECTOR ENG. DATE PRINTED BY: kbeoley Oct 04, 2024 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837</p>	<p>6697 C1.3 SH #14 OF #15</p> <p>CONT/CONS: 101585.01 M. ID: 101585.01 PHASE:</p>

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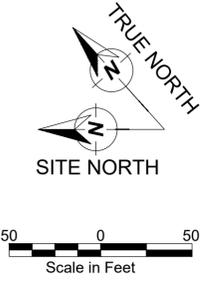


LEGEND

- SANITARY SEWER MANHOLE
 - UTILITY CLEAN OUT
 - ⊕ STORM MANHOLE
 - ⊞ STORM CATCH BASIN
 - ⊞ STORM CULVERT
 - ⊞ WATER MANHOLE
 - ⊞ WATER VALVE
 - ⊞ WATER METER
 - ⊞ FIRE HYDRANT
 - ⊞ IRRIGATION CONTROL VALVE
 - ⊞ GAS VALVE
 - ⊞ GAS RISER
 - ⊞ POWER METER
 - ⊞ POWER CABINET
 - ⊞ UTILITY POLE
 - ⊞ UTILITY POLE WITH DROP(S)
 - ⊞ GUY ANCHOR
 - ⊞ JUNCTION BOX
 - ⊞ POWER VAULT
 - ⊞ LIGHT POLE
 - COLUMN
 - BOLLARD
 - ⊞ RAILROAD SWITCH
 - ⊞ MONITORING WELL
 - XXLINE DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
-
- PARCEL LINE
 - ROAD CENTERLINE
 - RIGHT OF WAY LINE
 - AP — AP OVERHEAD POWER LINE
 - CHAIN LINK FENCE
 - RAILROAD TRACKS
 - WETLAND DELINEATION
 - SHEARWALL/SHEET PILE WALL PER 2004 MAPPING
 - WETLAND AREA
 - EASEMENT
 - TEMPORARY CAP
 - BARRIER WALL ALIGNMENT
 - PROPOSED CONTOUR
 - SLOPE

NOTES

1. ALL DISTURBED AREAS SHALL BE HYDRO SEEDING AS PART OF FINAL SITE STABILIZATION.



Port of Tacoma <small>P.O. BOX 1837 TACOMA, WA 98401 (206)383-5441</small>		DATE:
		APPR:
		BY:
		REVISION:
		MARK:
<h2 style="margin: 0;">Preliminary 30% Design</h2>		
APPROVED:	D. HAWK	09/20/24
	CHECKED BY:	DATE
	T. LOUVIERE	09/20/24
	PROJ. ENGR	DATE
	PRINTED BY: kbepley	Oct 08, 2024
	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	
ARKEMA MANUFACTURING AREA INTERIM ACTION - CONTAINMENT WALL RESTORATION PLAN		
TOWNSHIP:	RANGE:	SECTION:
DATE-HRZ:	VERT:	DRAWING SCALE:
6697 C1.4 SH #15 OF #15		
CONT/CONS:	WA83-SF	AS NOTED
LM. ID:	101585.01	
PHASE:		

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