Appendix H

BINDING EDGE

PORT OF TACOMA

ARKEMA MANUFACTURING AREA INTERIM ACTION
SITE CAPPING
PROJECT NO. 101585.01
CONTRACT NO. 072075

PORT COMMISSIONERS:

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

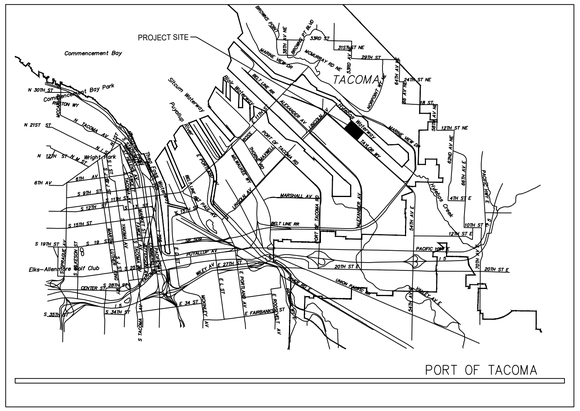
PORT STAFF:

JOHN WOLFE
NWSA Chief Executive Officer

ERIC JOHNSON
Port of Tacoma Executive Director

THAIS HOWARD, P.E.
Director of Engineering

BRETT OZOLIN, P.E.
Project Manager



CIVIL CONSULTANT: RICHARD C. HAND, P.E.
SITTS & HILL ENGINEERS, INC.

sitts&hill

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PROJECT INFORMATION:

SITE ADDRESS:	2901 TAYLOR WAY, TACOMA, WA 98421
SITE PARCEL:	2275200633 (2,822,688 S.F.; 64.8 ACRES)
PROPERTY OWNER:	PORT OF TACOMA ONE SITCUM PLAZA TACOMA, WA 98401
ZONING:	PMI; PORT MARITIME AND INDUSTRIAL DISTRICT
SCOPE OF WORK:	INSTALL 38 ACRES OF ASPHALT PAVEMENT FOR INDUSTRIAL/ BREAK BULK STORAGE. PROVIDE STORMWATER TREATMENT AND INSTALL TWO OUTFALLS TO HYLEBOS WATERWAY. INSTALL FIRE WATER AND SIDE SEWER.
NEW & REPLACED IMPERVIOUS SURFACE:	1,625,320 S.F. (37.31 A.C.)
TOTAL DISTURBED AREA:	1,704,1640 S.F. (39.12 A.C)
ESTIMATED EARTHWORK:	18,000 CY CUT / 120,00 CY FILL
FLOOD ZONE (AT PROJECT SITE):	ZONE X (AREAS OF 0.2% ANNUAL CHANCE FLOOD)

SDEV24-XXXX

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HAND — STATE OF WASHINGTON — 20778 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

APPROVED:		RCH	07/19/24
		CHECKED BY	DATE
		BAS	07/19/24
	DIRECTOR ENG. DATE	PROJ. ENGR	DATE

PRINTED BY: srebrob Jul 17, 2024
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
COVER SHEET

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

SECTION: 36

6698
G1.0
SH # 1 OF 72

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PORT OF TACOMA FILE: Q:\20300\20347\Drawings\101585-G1.X

BINDING EDGE

DRAWING LIST

SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
G1.0	1	COVER SHEET	0
G1.1	2	SHEET INDEX	0
G1.2	3	GENERAL PROJECT NOTES	0
G1.3	4	ABBREVIATIONS AND LEGEND	0
SV1.0	5	TOPOGRAPHIC SURVEY	0
SV1.1	6	TOPOGRAPHIC SURVEY - AREA 1	0
SV1.2	7	TOPOGRAPHIC SURVEY - AREA 2	0
SV1.3	8	TOPOGRAPHIC SURVEY - AREA 3	0
SV1.4	9	TOPOGRAPHIC SURVEY - AREA 4	0
SV1.5	10	TOPOGRAPHIC SURVEY - AREA 5	0
SV1.6	11	TOPOGRAPHIC SURVEY - AREA 6	0
SV1.7	12	TOPOGRAPHIC SURVEY - AREA 7	0
SV1.8	13	TOPOGRAPHIC SURVEY - AREA 8	0
D1.0	14	OVERALL DEMOLITION AND TESC PLAN	0
D1.1	15	DEMOLITION AND TESC PLAN - AREA 1	0
D1.2	16	DEMOLITION AND TESC PLAN - AREA 2	0
D1.3	17	DEMOLITION AND TESC PLAN - AREA 3	0
D1.4	18	DEMOLITION AND TESC PLAN - AREA 4	0
D1.5	19	DEMOLITION AND TESC PLAN - AREA 5	0
D1.6	20	DEMOLITION AND TESC PLAN - AREA 6	0
D1.7	21	DEMOLITION AND TESC PLAN - AREA 7	0
D1.8	22	DEMOLITION AND TESC PLAN - AREA 8	0
D1.9	23	DEMOLITION AND TESC NOTES 1	0
D1.10	24	DEMOLITION AND TESC NOTES 2	0
D1.11	25	DEMOLITION AND TESC DETAILS	0
C1.0	26	OVERALL SITE PLAN	0
C1.1	27	SITE PLAN - AREA 1	0
C1.2	28	SITE PLAN - AREA 2	0
C1.3	29	SITE PLAN - AREA 3	0
C1.4	30	SITE PLAN - AREA 4	0
C1.5	31	SITE PLAN - AREA 5	0
C1.6	32	SITE PLAN - AREA 6	0
C1.7	33	SITE PLAN - AREA 7	0
C1.8	34	SITE PLAN - AREA 8	0
C1.9	35	SITE PLAN NOTES AND DETAILS	0
C2.0	36	OVERALL GRADING AND DRAINAGE PLAN	0
C2.1	37	GRADING AND DRAINAGE PLAN - AREA 1	0
C2.2	38	GRADING AND DRAINAGE PLAN - AREA 2	0
C2.3	39	GRADING AND DRAINAGE PLAN - AREA 3	0
C2.4	40	GRADING AND DRAINAGE PLAN - AREA 4	0
C2.5	41	GRADING AND DRAINAGE PLAN - AREA 5	0
C2.6	42	GRADING AND DRAINAGE PLAN - AREA 6	0
C2.7	43	GRADING AND DRAINAGE PLAN - AREA 7	0
C2.8	44	GRADING AND DRAINAGE PLAN - AREA 8	0
C2.9	45	GRADING AND DRAINAGE NOTES AND DETAILS	0

DRAWING LIST

SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
C2.10	46	TREATMENT VAULT DETAIL 1	0
C2.11	47	TREATMENT VAULT DETAILS 2	0
C2.12	48	OUTFALL SECTION	0
C2.13	49	OUTFALL DETAILS	0
U1.0	50	OVERALL UTILITY PLAN	0
U1.1	51	UTILITY PLAN - AREA 1	0
U1.2	52	UTILITY PLAN - AREA 2	0
U1.3	53	UTILITY PLAN - AREA 3	0
U1.4	54	UTILITY PLAN - AREA 4	0
U1.5	55	UTILITY PLAN - AREA 5	0
U1.6	56	UTILITY PLAN - AREA 6	0
U1.7	57	UTILITY PLAN - AREA 7	0
U1.8	58	UTILITY PLAN - AREA 8	0
U1.9	59	UTILITY NOTES AND DETAILS	0
E0.1	60	ELECTRICAL SYMBOLS LEGENDS/GENERAL NOTES	0
E1.0	61	OVERALL ELECTRICAL SITE PLAN	0
E1.1	62	PARTIAL ELECTRICAL SITE PLAN - AREA 1	0
E1.2	63	PARTIAL ELECTRICAL SITE PLAN - AREA 2	0
E1.3	64	PARTIAL ELECTRICAL SITE PLAN - AREA 3	0
E1.4	65	PARTIAL ELECTRICAL SITE PLAN - AREA 4	0
E1.5	6	PARTIAL ELECTRICAL SITE PLAN - AREA 5	0
E1.6	67	PARTIAL ELECTRICAL SITE PLAN - AREA 6	0
E1.7	68	PARTIAL ELECTRICAL SITE PLAN - AREA 7	0
E1.8	69	PARTIAL ELECTRICAL SITE PLAN - AREA 8	0
E2.0	70	POWER RISER DIAGRAM	0
E3.0	71	ELECTRICAL DETAILS	0
E3.1	72	ELECTRICAL DETAILS	0

DRAWING LIST

SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
WO0.0	1	COVER SHEET	0
WO0.1	2	PROJECT GENERAL NOTES	0
WO0.2	3	OVERALL TOPOGRAPHIC SURVEY	0
WO0.3	4	OVERALL PROJECT LOCATION	0
WO1.0	5	DEMOLITION AND TESC PLAN	0
WO1.1	6	DEMOLITION AND TESC NOTES AND DETAILS	0
WO2.0	7	GRADING AND PAVING PLAN	0
WO2.1	8	GRADING AND PAVING NOTES AND DETAILS	0
WO3.0	9	UTILITIES PLAN	0
WO3.1	10	UTILITIES NOTES AND DETAILS	0
WO4.0	11	CITY OF TACOMA RIGHT OF WAY GENERAL NOTES	0

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RICHARD C. HAND — STATE OF WASHINGTON — 22760 — REGISTERED PROFESSIONAL ENGINEER
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RCH 07/19/24
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PROJ. ENGR DATE

DIRECTOR ENG. DATE

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TACOMA, WA 98401-1837

APPROVED:

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
SHEET INDEX

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

6698
G1.1
SH # 2 OF 72

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BINDING EDGE

GENERAL PROJECT NOTES

1. THE LOCATION OF ALL UTILITIES SHOWN IN THESE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION. TO LOCATE UTILITIES, CALL THE UNDERGROUND LOCATE LINE AT 1-811-424-5555 OR 811.
2. 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.
3. 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.
4. 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 TO ORIGINAL LOCATION AND ELEVATION.
5. THE CONTRACTOR FOR THIS PROJECT SHALL MAINTAIN A CLEAN, LEGIBLE SET OF THESE PLANS AND NOTE ALL DEVIATIONS THEREON. UPON COMPLETION OF CONSTRUCTION, SURVEYED STAMPED AS-BUILTS SHALL BE PROVIDED TO THE PROJECT ENGINEER FOR THE PREPARATION OF RECORD DRAWINGS. THE PROJECT ENGINEER SHALL SUBMIT RECORD DRAWINGS TO THE CITY OF TACOMA UPON COMPLETION OF THE PROJECT FOR APPROVAL.
6. THE CONTRACTOR SHALL HAVE ACCESS TO THE CURRENT COPY OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD PLANS AND CURRENT EDITION OF THE SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (PUBLICATIONS M21-01 AND M41-10).
7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT TO PREVENT UTILITY INTERRUPTION. NOTIFY THE APPROPRIATE PURVEYORS ONE WEEK IN ADVANCE OF EACH UTILITY CONNECTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SHALL COORDINATE HIS ACTIVITIES WITH THE CITY OF TACOMA, THE ENGINEER A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF THE BEGINNING OF WORK. THE CONTRACTOR SHALL PREPARE, SUBMIT, AND OBTAIN TRAFFIC CONTROL APPROVAL FROM THE CITY PRIOR TO EXECUTING THE WORK. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
9. 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 TO THE CONSTRUCTION AREA. AT A MINIMUM FENCING SHALL BE 6.0 FEET HIGH. COORDINATE SAFETY AND SECURITY MEASURES WITH ADJACENT WORK.
10. DAMAGE TO ANY PROPERTY, INCLUDING BUT NOT LIMITED TO, BUILDINGS, UTILITIES, VEHICLES, FENCING, OR LANDSCAPING AS A RESULT OF CONTRACTORS ACTIVITIES WILL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE.
11. THE CONTRACTOR IS FINANCIALLY RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF OFF-SITE AND ON-SITE PAVED SURFACES WHERE DAMAGE HAS BEEN SUSTAINED BECAUSE OF CONSTRUCTION TRAFFIC.
12. ALL CONCRETE, PAVEMENT, CURBS, SIDEWALKS AND RAMPS INDICATED TO BE REMOVED OR REPLACED SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT AS IDENTIFIED DURING CONSTRUCTION. WHERE THIS IS NOT POSSIBLE DUE TO CONFLICTS OR ADJACENT DAMAGED CONCRETE / ASPHALT, THE CONTRACTOR SHALL MAKE A FULL PAVEMENT DEPTH SAWCUT AT THE PROPOSED JOINT IN SOUND PAVEMENT. PROPOSED CONCRETE / ASPHALT SHALL EXTEND TO THE SAWCUT EDGE AND BE APPROPRIATELY JOINED / SEALED. THE CONTRACTOR SHALL MAKE SAWCUTS AT EXISTING CONTRACTION JOINTS WHERE POSSIBLE.

CONSTRUCTION SEQUENCE

1. OBTAIN CITY OF TACOMA SITE DEVELOPMENT PERMIT.
2. CALL FOR PRE-CONSTRUCTION MEETING WITH CITY OF TACOMA INSPECTOR AND PROVIDE ESC LEAD INFORMATION.
3. INSTALL TESC/CSWPP MEASURES AND CALL FOR CITY OF TACOMA INSPECTION.
4. PERFORM DEMOLITION WORK.
5. INSTALL STORM DRAIN OUTFALLS.
6. PERFORM MISCELLANEOUS GRADING.
7. INSTALL STORM DRAINAGE SYSTEM.
8. INSTALL SITE UTILITIES.
9. INSTALL PAVEMENT BASE MATERIALS AND CALL FOR INSPECTION.
10. INSTALL ASPHALT PAVEMENT AND RESTORE DISTURBED SURFACES.
11. WHEN ALL CONSTRUCTION IS COMPLETED CALL FOR PRE-FINAL INSPECTION.
12. REMOVE ALL TESC/CSWPPP MEASURES AND CALL FOR FINAL INSPECTION.

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PRELIMINARY — NOT FOR CONSTRUCTION

RCH	07/19/24		
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6698

G1.2

SH # 3 OF 72

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
GENERAL PROJECT NOTES

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED
SECTION:	36		

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6698

G1.3

SH # 4 OF 72

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

ABBREVIATIONS AND LEGEND

CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
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PORT ADDRESS: ONE SITCUM PLAZA
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RICHARD C. HAMM — STATE OF WASHINGTON — 29790 — REGISTERED PROFESSIONAL ENGINEER

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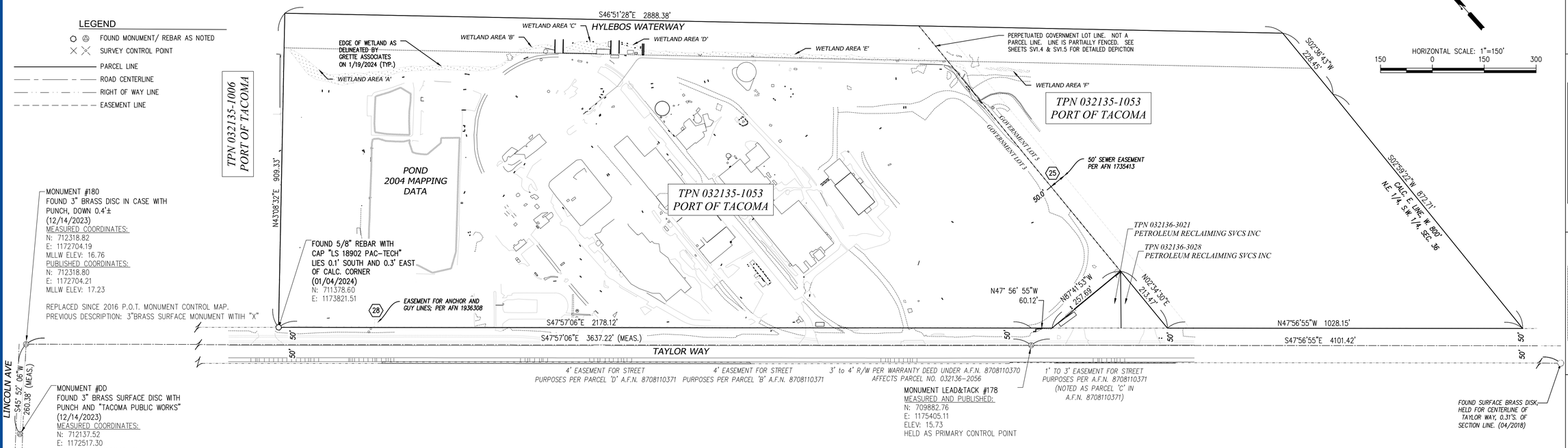
TOPOGRAPHIC SURVEY

SCALE: 1" = 150'

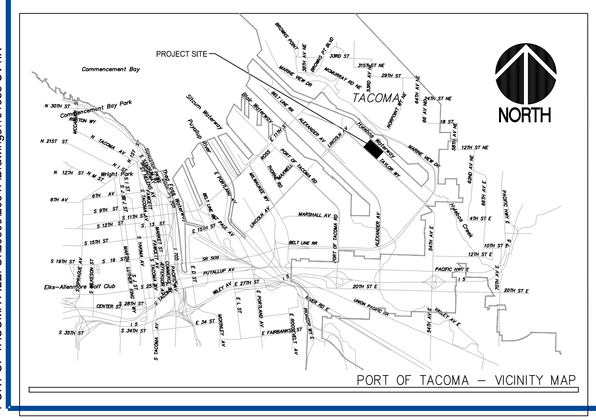


LEGAL DESCRIPTION

(PER SPECIAL WARRANTY DEED UNDER A.F.N. 200705310863)

BEGINNING AT A POINT WHERE THE NORTHERLY RIGHT OF WAY LINE OF TAYLOR WAY EXTENSION INTERSECTS THE EAST LINE OF THE WEST 800 FEET OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 36, TOWNSHIP 21 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN;
THENCE NORTHWESTERLY ALONG SAID NORTHERLY RIGHT OF WAY LINE OF TAYLOR WAY EXTENSION TO INTERSECT THE WEST LINE OF SAID NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 36;
THENCE NORTH ALONG SAID WEST LINE TO THE NORTH LINE OF SAID SOUTHWEST QUARTER OF SECTION 36;
THENCE WEST ALONG SAID NORTH LINE OF THE SOUTHWEST QUARTER OF SECTION 36 TO THE SOUTHWEST CORNER OF THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 36;
THENCE NORTH ALONG THE WEST LINE OF SAID EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER TO INTERSECT THE NORTHERLY RIGHT OF WAY LINE OF TAYLOR WAY;
THENCE NORTHWESTERLY ALONG THE AFORESAID NORTHERLY RIGHT OF WAY LINE OF TAYLOR WAY TO THE MOST SOUTHERLY CORNER OF THAT CERTAIN TRACT OF LAND LOCATED IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 21 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN CONVEYED TO AMERICAN ROCK WOOL CORP., AN INDIANA CORPORATION, BY DEED RECORDED JANUARY 27, 1956 UNDER PIERCE COUNTY AUDITOR'S FEE NUMBER 1745522;
THENCE NORTH 41°45'14" EAST ALONG THE EASTERLY LINE OF SAID AMERICAN ROCK WOOL TRACT, 908.23 FEET TO THE SOUTHWESTERLY LINE OF THE HYLEBOS CREEK WATERWAY;
THENCE SOUTH 48°14'46" EAST ALONG THE SOUTHWESTERLY LINE OF SAID WATERWAY TO INTERSECT THE EAST LINE OF THE WEST 800 FEET OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 36;
THENCE SOUTH ALONG SAID EAST LINE AND THE EAST LINE OF THE WEST 800 FEET OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 36 TO THE POINT OF BEGINNING.

EXCEPT ANY PORTION THEREOF LYING WITHIN TAYLOR WAY AND TAYLOR WAY EXTENSION.



PORT OF TACOMA – VICINITY MAP

NOTES

1. EQUIPMENT USED: CARLSON CR2+ ROBOTIC TOTAL STATION AND JAVAD TRIUMPH-3NR RTK/GPS.
2. THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE WITH THE FINAL RESULTS MEETING OR EXCEEDING THE CURRENT TRAVERSE AND RELATIVE POSITIONAL ACCURACY STANDARDS CONTAINED IN W.A.C. 332-130-090. THE RELATIVE POSITIONAL ACCURACY OF THE POSITIONS LOCATED HEREON MEETS OR EXCEEDS 2 CM (0.07 FT.) PLUS 50 PARTS PER MILLION BETWEEN ANY TWO TESTED POSITIONS. ALL MEASUREMENTS WERE MADE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
3. IN ACCORDANCE WITH THE REVISED CODE OF WASHINGTON (R.C.W.) 58.09 AND THE WASHINGTON ADMINISTRATIVE CODE (W.A.C.) 332-130, THIS SURVEY MAY DEPICT OCCUPATIONAL INDICATORS THAT DIFFER FROM THE DEEDED LOT LINES. THESE INDICATORS, IF AT ALL PRESENT, MAY REPRESENT A POTENTIAL FOR CLAIMS OF UNWRITTEN TITLE. THIS SURVEY DOES NOT PURPORT TO RESOLVE SUCH ITEMS.
4. FIELD WORK PERFORMED IN DECEMBER 2023 THROUGH MARCH 2024, UNDER SITTS & HILL PROJECT NUMBER 20347.
5. UTILITIES AS SHOWN HEREON ARE BASED ON FIELD SURVEY OBSERVATION OF UTILITY LOCATE SERVICES PERFORMED BY MOUNTAIN VIEW LOCATING SERVICES, LLC. IN JANUARY 2024 FOR THIS SURVEY. THIS HAS BEEN SUPPLEMENTED BY PUBLIC RECORDS INFORMATION PROVIDED BY CITY OF TACOMA DART GIS AND BY RECORD LINES FROM SITTS AND HILL PROJECT NUMBER 17695 COMPLETED IN MARCH AND APRIL OF 2018. RECORD UTILITY LINES SHOWN HEREON ARE DEPICTED WITH THE STANDARD LINETYPE WITH A "– R" AS SHOWN IN THE LEGEND. UTILITIES OTHER THAN SHOWN MAY EXIST ON THE SITE. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES CERTIFY THAT THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY AND PAINTED UTILITY LOCATE LINES. COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA IS CONSISTENT WITH QUALITY LEVEL B OF THE ASCE STANDARD GUIDELINES 38-02.
6. THIS SURVEY COMPLIES WITH W.A.C. 332-130-145. THE CONTOURS DEPICTED HEREON ARE BASED ON DATA FROM DIRECT FIELD MEASUREMENTS. SPOT ELEVATIONS ARE BASED ON DIRECT FIELD MEASUREMENTS AND ARE DEPICTED FOR REFERENCE. THE PURPOSE OF THIS TOPOGRAPHIC MAP IS TO SERVE AS A BASE MAP FOR CONTEMPLATED SITE IMPROVEMENTS AND DESIGN.
7. WETLANDS FLAGS WERE LOCATED BY SITTS AND HILL AS DELINEATED BY GRETTE ASSOCIATES IN THE FIELD ON 01/19/2024. THESE AREAS ARE SHOWN WITH SPECIFIC HATCHING AND SYMBOLS AS IDENTIFIED IN THE LEGEND.
8. MUCH OF THE SITE WAS UNDER STANDING WATER OR ICE AT THE TIME OF SURVEY. THESE AREAS ARE SHOWN WITH SPECIFIC HATCHING AS IDENTIFIED IN THE LEGEND. FEATURES AND EDGES OF IMPERVIOUS SURFACES WERE LOCATED WHERE OBSERVABLE, HOWEVER ADDITIONAL IMPROVEMENTS AND IMPERVIOUS SURFACES MAY EXIST IN THESE AREAS.
9. EDGES OF IMPERVIOUS SURFACES ON SITE REFLECT WHAT WAS OBSERVABLE AND EXPOSED AT THE TIME OF SURVEY. TRUE EDGES MAY BE BURIED UNDER SOIL AND DEBRIS.
10. DATA FROM SITTS & HILL PROJECT NUMBER 10992, COMPLETED IN 2004 WAS USED TO SUPPLEMENT THIS SURVEY. SPECIFICALLY THE APPROXIMATE LOCATION OF THE SHEARWALL (SHEET PILE WALL) LOCATED AT THE SOUTHERLY END OF THE SITE NEAR THE HYLEBOS WATERWAY WAS EXTRACTED FROM THE 2004 SURVEY AND IS SHOWN HEREON, AND NOTED AS SUCH. ALSO, POINT DATA OF GRADE ELEVATIONS WITHIN THE LIMITS OF THE TWO PONDS AT THE NORTHERLY PORTION OF THE SITE WERE INPUT TO PRODUCE MORE ACCURATE CONTOURS. THE LIMITS OF THIS DATA FROM THE 2004 EFFORT IS SHOWN WITH A THICK, SHADED LINE AND LABELED HEREON.

SCHEDULE B EXCEPTIONS

PER CHICAGO TITLE INSURANCE COMPANY OF WASHINGTON, COMMITMENT NUMBER 240759-TC, DATED 03/13/2024

* NOT A SURVEY MATTER, DESCRIPTION PROVIDED AS A COURTESY
** CONTENT/DATA WITHIN INSTRUMENT IS INSUFFICIENT TO DETERMINE EXACT LOCATION
*** INSTRUMENT IS BLANKET IN NATURE OR AFFECTS ENTIRE PROPERTY
DNA DOES NOT AFFECT THE MAPPING LIMITS OF THE SUBJECT PROPERTY

EXCEPTION NUMBER	AFN	DESCRIPTION
1***	200903105001	COVENANTS, CONDITIONS, RESTRICTIONS, ETC. CONTAINED WITHIN RECORD OF SURVEY; SURVEY SUPERCEDES AFN 200901265003; SURVEY CONTAINS REFERENCES TO SEVERAL EASEMENTS AFFECTING THE SUBJECT PARCEL, INCLUDING NO. 25 AND NO. 28, WHICH AFFECT THE MAPPING AREA (SEE BELOW)
5		PENDING RESPONSE FROM TITLE COMPANY
6		PENDING RESPONSE FROM TITLE COMPANY
8***	8707280239	COVENANTS, CONDITIONS, RESTRICTIONS, ETC. CONTAINED WITHIN RECORD OF SURVEY; SURVEY DEPICTS TWO EASEMENTS NOTED WITHIN THIS TITLE COMMITMENT; SEE SCHEDULE 'B' EXCEPTIONS 24, AND 25 NOTED HEREON.
9***	9604170418	COVENANTS, CONDITIONS, RESTRICTIONS, ETC. CONTAINED WITHIN RECORD OF SURVEY;
15		PENDING RESPONSE FROM TITLE COMPANY ON NO. 5 AND NO. 6
16***	9909145004	RIGHTS, INTERESTS, CLAIMS, ETC. CONTAINED WITHIN RECORD OF SURVEY;
17***	200212115004	RIGHTS, INTERESTS, CLAIMS, ETC. CONTAINED WITHIN RECORD OF SURVEY;
22**	N/A	NOTE REGARDING EASEMENT IN FAVOR OF PUGET SOUND POWER & LIGHT COMPANY AS DISCLOSED BY THE PIERCE COUNTY ASSESSOR'S MAP; NOTHING SHOWN HEREON.
23**	1234107	EASEMENT FOR USES AND ENTRY TO WATERWAYS; GRANTED TO: UNITED STATES OF AMERICA; 06/15/1938; EASEMENT DESCRIPTION IS SEMI-LEGIBLE; IT APPEARS TO DESCRIBE THE AFFECTED AREA AS BEING NORTH AND EAST OF THE HYLEBOS WATERWAY, IN WHICH CASE IT WOULD NOT AFFECT THE SUBJECT PARCEL OR MAPPING AREA
24	1460103	EASEMENT FOR ANCHORS AND GUY LINES; THREE AREAS ARE DESCRIBED; ONE LIES SOUTH OF TAYLOR WAY AND THE SUBJECT PARCEL 'B' AND IS NOT SHOWN HEREON; THE SECOND LIES SOUTH OF TAYLOR WAY BUT ADJACENT TO THE R-O-W MAPPING LIMITS OF THIS PROJECT, AND IS SHOWN HEREON; THE THIRD LIES WITHIN THE SUBJECT PARCEL 'B', BUT OUTSIDE THE MAPPING LIMITS AND IS NOT SHOWN HEREON
25	1735413	DEED; GRANTOR: OHIO FERRO-ALLOYS CORPORATION; GRANTEE: MILWAUKEE BOOM COMPANY; CONTAINS REFERENCE TO EASEMENT AFN 1460103 (SCHEDULE 'B' ITEM NO. 24) AS WELL AS AN EASEMENT FOR SEWER LINE AND APPURTENANCES; SEWER EASEMENT AFFECTS SUBJECT PARCEL 'B', AND LIES ADJACENT TO THE MAPPING LIMITS; SHOWN HEREON.
28	1936308	EASEMENT FOR ANCHOR AND GUY WIRES; GRANTOR: PENNSALT CHEMICALS CORPORATION; GRANTEE; CITY OF TACOMA; 09/06/1961; AFFECTS SUBJECT PARCEL 'B' AND LIES WITHIN THE MAPPING LIMITS; SHOWN HEREON.
30***	8707230359	NOTICE OF CONSENT DECREE ENTERED IN CAUSE NUMBER 87-2-01198-1 BETWEEN THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY AND PENNWALT CORPORATION; 07/23/1987; THE AREA DESCRIBED IN THE INSTRUMENT INCLUDES THE EAST 800 FEET OF SUBJECT PARCEL 'B', AND LIES ADJACENT TO THE EASTERLY EXTENTS OF THE MAPPING LIMITS.
31***	8707230360	NOTICE OF CONSENT DECREE ENTERED IN CAUSE NUMBER 87-2-01199-0 BETWEEN THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY AND PENNWALT CORPORATION; 07/23/1987; ALL BUT THE EASTERLY 800 FEET OF SUBJECT PARCEL 'B', AND THE ENTIRETY OF THE MAPPING LIMITS LIE WITHIN THE SUBJECT AREA DESCRIBED WITHIN THE INSTRUMENT;
32	8708170385	EASEMENT FOR ANCHORS AND GUY WIRES; INCLUDES DESCRIPTION OF EASEMENTS FOR POWER LINES; GRANTOR: PENNWALT CORPORATION; GRANTEE: CITY OF TACOMA; JULY 16, 1987; EASEMENT AREAS DO NOT LIE WITHIN THE SUBJECT PARCEL 'B', BUT ACROSS TAYLOR WAY, ADJACENT TO THE SOUTHERLY EXTENTS OF THE ROW MAPPING LIMITS.
34***	200205291520	NOTICE REGARDING SEDIMENT REMEDIATION; SITE ADDRESS: 2901 TAYLOR WAY; NOTHING SHOWN HEREON
37***	201608240220	COVENANTS, CONDITIONS, RESTRICTIONS ETC. FOR ENVIRONMENTAL COVENANT (SUPERSEDING AFN 9302020332); LEGAL DESCRIPTION DESCRIBES ALL OF SUBJECT PARCEL 'B'; NOTHING SHOWN HEREON
41**	1440041	NOTE REGARDING EXCEPTIONS AND RESERVATIONS, CONTAINED IN DEED; ALSO MODIFIED AFN 1869995; DEED AFN 1440041 IS PARTIALLY ILLEGIBLE, MAY DESCRIBE PORTIONS OF OR NEAR THE SUBJECT PARCEL 'B' AND/OR MAPPING LIMITS.
50***	200205291519	NOTICE REGARDING SEDIMENT REMEDIATION; SITE ADDRESS: 3009 TAYLOR WAY; NOTHING SHOWN HEREON

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: 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)

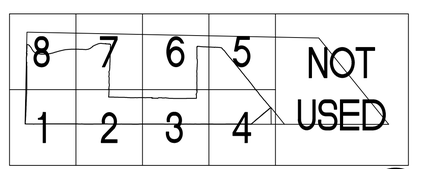
P.O.T. MONUMENT #178
DESCRIPTION: LEAD AND TACK FOUND IN THE NORTHEAST GUTTER OF TAYLOR WAY.
PUBLISHED COORDINATES
N: 709882.76
E: 1175405.11
MLLW ELEV.: 15.73

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)

SITE DATA

TAX PARCEL NO. 0321351053
ADDRESS: 2901 TAYLOR WAY



KEY PLAN

SCALE: NTS

NORTH

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

sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
615 CENTER STREET | TACOMA, WA. 98409
PHONE: (253) 474-9449 | FAX: (253) 474-9163
WWW.SITTSHILL.COM

MARK:	REVISION:	BY:	APPR:	DATE:

PRELIMINARY
STEVEN R. SCHILLING
STATE OF WASHINGTON
16898
REGISTERED PROFESSIONAL LAND SURVEYOR

DS				04/08/24
CHECKED BY				DATE
DS				04/08/24
DIRECTOR_ENG.	DATE	PROJ. ENGR		DATE
APPROVED:		PRINTED BY:	schillingd	Jul 09, 2024
		PORT ADDRESS:	ONE SITCUM PLAZA	
			TACOMA, WA 98401-1837	

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TOPOGRAPHIC SURVEY

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST SECTION: 36
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

6698
SV1.0
SH # 5 OF 72

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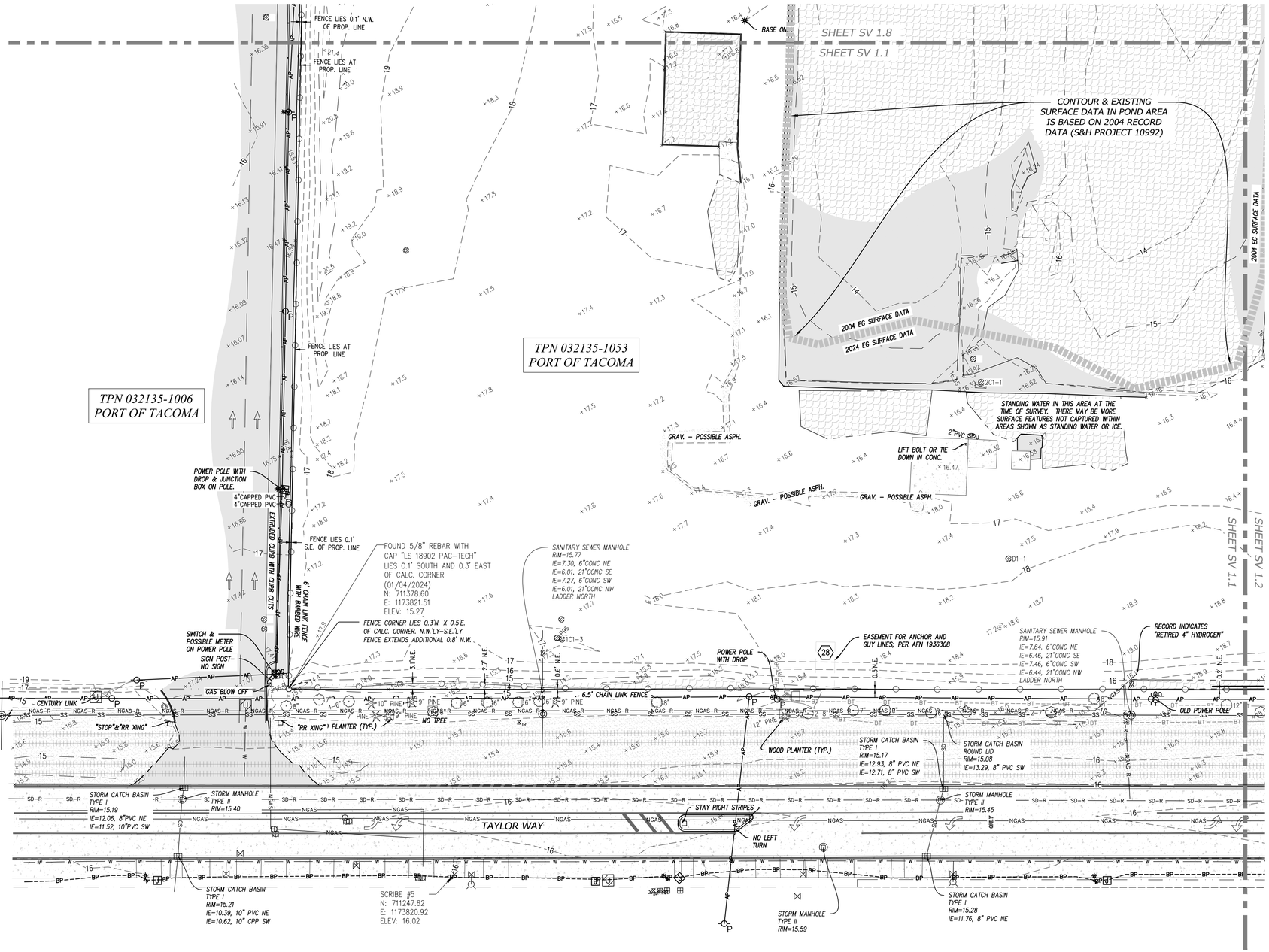
BINDING EDGE

PORT OF TACOMA FILE: O:\20300\20347\Drawings\101585-SV1.X

BINDING EDGE



TOPOGRAPHIC SURVEY - AREA 1

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

LEGEND

- FOUND MONUMENT/ REBAR AS NOTED
- SURVEY CONTROL POINT
- 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
- PILE
- WETLAND FLAG
- TPN TAX PARCEL NUMBER
- X.XN.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
- (25) SCHED. B EXCEPTION NUMBER

- 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
- RAILROAD TRACKS
- WETLAND DELINEATION

- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP-RAP SURFACE
- AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
- WETLAND AREA

8 7 6 5 NOT USED
1 2 3 4

KEY PLAN

SCALE: NTS

NORTH

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

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WWW.SITTSHILL.COM

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REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF WASHINGTON
BRADLEY R. SCHILLING
18589
PRELIMINARY

APPROVED:

DIRECTOR ENG.	DATE	
PROJ. ENGR	DATE	03/22/24
PRINTED BY:	schillingd Jul 09, 2024	
CHECKED BY	DATE	03/22/24
DS		DS

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TOPOGRAPHIC SURVEY - AREA 1

PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698
SV1.1
SH # 6 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

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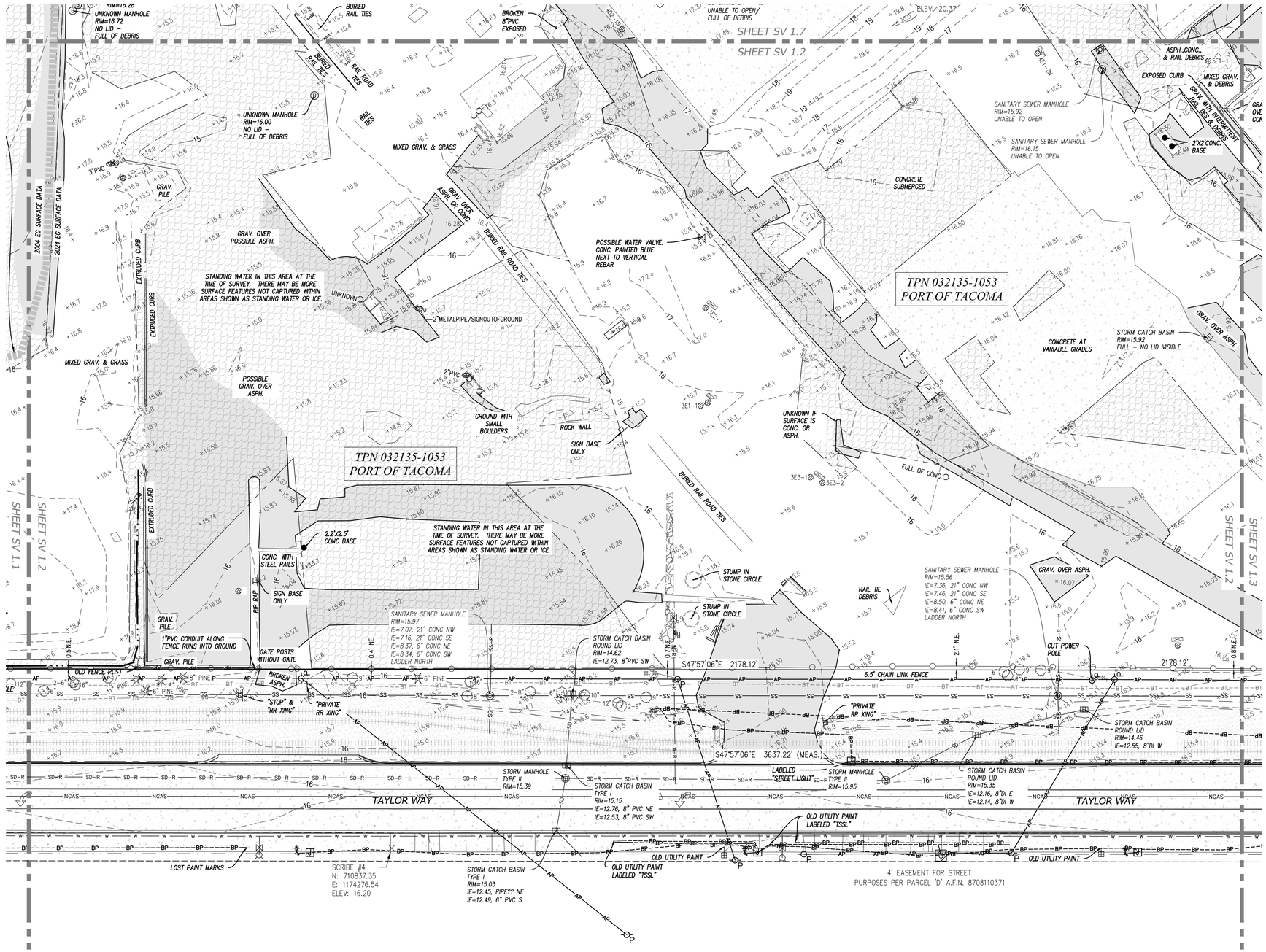

TOPOGRAPHIC SURVEY - AREA 2

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

LEGEND

FOUND MONUMENT/ REBAR AS NOTED	PARCEL LINE
SURVEY CONTROL POINT	ROAD CENTERLINE
SANITARY SEWER MANHOLE	RIGHT OF WAY LINE
UTILITY CLEAN OUT	EASEMENT LINE
STORM MANHOLE	STORM DRAIN LINE
STORM CATCH BASIN	RECORD STORM LINE
STORM CULVERT	SANITARY SEWER LINE
WATER MANHOLE	RECORD SANITARY LINE
WATER VALVE	BURIED WATER LINE
WATER METER	RECORD WATER LINE
FIRE HYDRANT	BURIED GAS LINE
IRRIGATION CONTROL VALVE	RECORD GAS LINE
GAS VALVE	BURIED POWER LINE
GAS RISER	RECORD BURIED POWER
POWER METER	OVERHEAD POWER LINE
POWER CABINET	BURIED TELECOM LINE
UTILITY POLE	RECORD TELECOM LINE
UTILITY POLE WITH DROP(S)	CHAIN LINK FENCE
GUY ANCHOR	RAILROAD TRACKS
JUNCTION BOX	WETLAND DELINEATION
POWER VAULT	ASPHALT SURFACE
LIGHT POLE	CONCRETE SURFACE
TELECOM RISER	GRAVEL SURFACE
TELECOM VAULT	RIP-RAP SURFACE
TELECOM JUNCTION BOX	AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
UTILITY VAULT	WETLAND AREA
UTILITY MANHOLE	
UNKNOWN STAND PIPE	
UNKNOWN VALVE	
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COLUMN	
BOLLARD	
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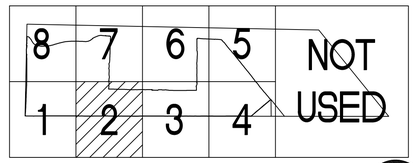
ECOLOGY BLOCK	
RAILROAD SWITCH	
MONITORING WELL	
PILE	
WETLAND FLAG	
TPN TAX PARCEL NUMBER	
X.X'N.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE	
(25) SCHED. B EXCEPTION NUMBER	



KEY PLAN

SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

REGISTERED PROFESSIONAL LAND SURVEYOR
JAMES SCHILLING
STATE OF WASHINGTON
19589
REGISTERED PROFESSIONAL LAND SURVEYOR
PRELIMINARY

DS	03/22/24	
CHECKED BY	DATE	
DS	03/22/24	
PROJ. ENGR	DATE	

schillingd Jul 09, 2024

APPROVED:

DIRECTOR ENG. DATE

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TOPOGRAPHIC SURVEY - AREA 2

PRINTED BY: schillingd Jul 09, 2024
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST | SECTION: 36
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

6698
SV1.2
SH # 7 OF 72

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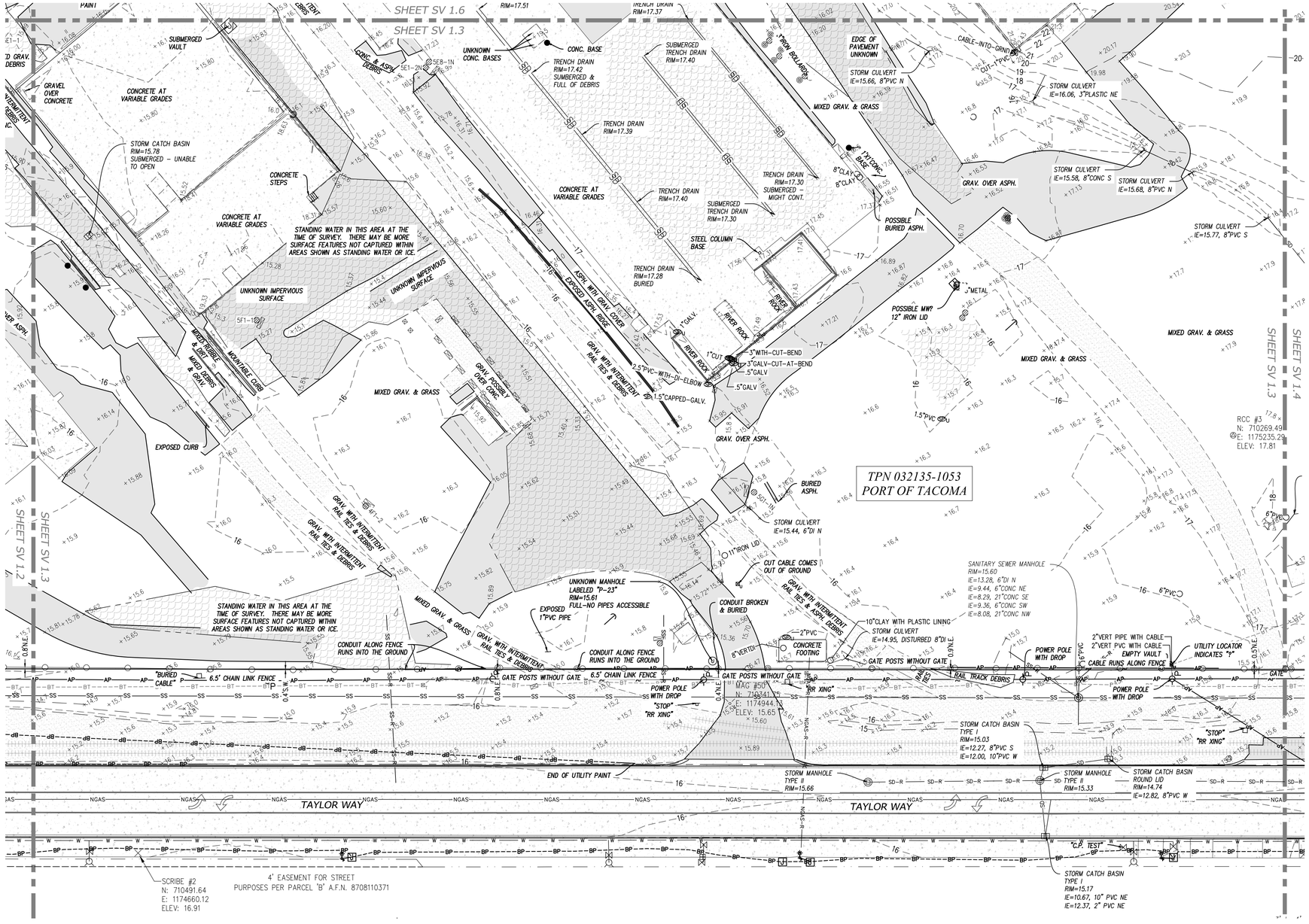

HORIZONTAL SCALE: 1"=30'

30 0 30 60

LEGEND

- FOUND MONUMENT/ REBAR AS NOTED
- SURVEY CONTROL POINT
- SANITARY SEWER MANHOLE
- UTILITY CLEAN OUT
- STORM MANHOLE
- STORM CATCH BASIN
- STORM CULVERT
- WATER MANHOLE
- WATER VALVE
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- IRRIGATION CONTROL VALVE
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- SIGN
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- ECOLOGY BLOCK
- RAILROAD SWITCH
- MONITORING WELL
- PILE
- WETLAND FLAG
- TPN TAX PARCEL NUMBER
- X.X'N.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
- 25 SCHED. B EXCEPTION NUMBER

- PARCEL LINE
- ROAD CENTERLINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- STORM DRAIN LINE
- RECORD STORM LINE
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- RECORD SANITARY LINE
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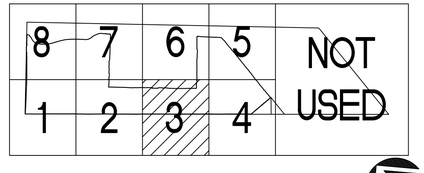
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP-RAP SURFACE
- AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
- WETLAND AREA

TOPOGRAPHIC SURVEY - AREA 3

SCALE: 1" = 30'



KEY PLAN

SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

PRELIMINARY
NOT FOR CONSTRUCTION
CHRISTOPHER SCHILLING
STATE OF WASHINGTON
22828
REGISTERED PROFESSIONAL LAND SURVEYOR

APPROVED:		DS	03/22/24
		CHECKED BY	DATE
		DS	03/22/24
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

PRINTED BY: schillingd Jul 09, 2024
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TOPOGRAPHIC SURVEY - AREA 3

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST | SECTION: 36
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL:	0321351053
		DRAWING SCALE:	AS NOTED

6698
SV1.3
SH # 8 OF 72

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BINDING EDGE

SHEET SV 1.5

SHEET SV 1.4

SHEET SV 1.3

SHEET SV 1.4

TPN 032135-1053
PORT OF TACOMA

TPN 032135-1053
PORT OF TACOMA

MIXED GRAV. & GRASS

MIXED GRAV. & GRASS

DOMED POWER POLE

STORM CULVERT
IE=15.51, 8"PVC N

POSSIBLE STORM CULVERT
IE=17.04, 6"PVC

CUT CABLE COMES OUT OF GROUND

APPROX. RECORD LOCATION OF SEWER MANHOLE NOT FOUND DURING SURVEY (BASED ON GIS)

GRAV. ACCESS ROAD

DISTURBED

GRAV. ACCESS ROAD MIXED GRAV. & GRASS

PERPETUATED GOVERNMENT LOT LINE. NOT A PARCEL LINE.

WITHOUT GATE

7' CHAIN LINK FENCE

50' SEWER EASEMENT PER AFN 1735413

FALLING FENCE POLE

FENCE LIES 0.1'S. X 2.2'W. OF PROPERTY CORNER

FACE OF RETAINING WALL LIES 0.9'N. OF PROPERTY LINE

EXISTING CONTAINER BUILDINGS

GRAV. & GRASS DITCH

ECOLOGY BLOCK WALL

METAL PLANK

WALL CORNER LIES 1.3'N. OF PROPERTY LINE

FENCE CORNER LIES 0.6'N. X 0.6'E. OF PROPERTY CORNER

BOULDERS (TYP.)

CONDUIT ALONG WALL RUNS INTO GROUND

FACE OF RETAINING WALL LIES 1.5'N. OF PROPERTY LINE

EXISTING PORTABLE BUILDING

"BURIED GAS PIPELINE"

SANITARY SEWER MANHOLE
RIM=15.67
IE=9.03, 21"CONC SE
IE=8.82, 21"CONC NW
IE=10.12, 6"CONC SW
IE=10.12, 6"CONC NE
LADDER SE

TPN 032136-3021
PETROLEUM RECLAIMING SVCS INC

TPN 032136-3028
PETROLEUM RECLAIMING SVCS INC

N57°41'53"W 25.69'

N02°34'30"E 213.47'

POWER POLE WITH DROP

POWER POLE WITH DROP

6' CHAIN LINK FENCE WITH BARBED WIRE

6' CHAIN LINK FENCE WITH BARBED WIRE

6.5' CHAIN LINK FENCE

6.5' CHAIN LINK FENCE

GATE

"RR XING"

"STOP" "RR XING"

"STOP" "RR XING"

RAIL DEBRIS

3"X3" POST 5.5'TALL

GRAV. OVER ASPH?

FENCE CORNER LIES 0.3'S. X 0.1'E. OF PROPERTY CORNER

APPROX. EDGE OF ASPH.

13" PINE

14" PINE

11" PINE

TAYLOR WAY

TAYLOR WAY

TAYLOR WAY

STORM CATCH BASIN
ROUND 18"DIA. LID
RIM=15.22
IE=13.29, 8"PVC SE

STORM CATCH BASIN
TYPE I
RIM=15.49
IE=12.80, 8" PVC N
IE=12.52, 10" PVC SW

STORM MANHOLE
TYPE II
RIM=15.85

STORM CATCH BASIN
TYPE II
RIM=15.63
IE=9.63, 10" PVC NE
LADDER SOUTH

STORM CATCH BASIN
TYPE I
RIM=14.87
IE=12.24, 8" PVC SW
IE=12.34, 8" PVC SE

STORM MANHOLE
TYPE II
RIM=15.21

STORM CATCH BASIN
ROUND LID
RIM=14.56
FULL OF DEBRIS
PIPES NOT VISIBLE OR ACCESSIBLE

STORM CATCH BASIN
TYPE I
RIM=14.77
IE=11.49, 8" PVC NE

SANITARY SEWER MANHOLE
RIM=15.51
IE=9.34, 21"CONC NW
IE=9.45, 21"CONC NE
IE=10.73, 6"CONC NE
IE=10.76, 6"CONC SW
LADDER SE

UTILITIES CONTINUE

SCRIBE #1
N: 710080.81
E: 1175115.18
ELEV: 16.26

3' to 4' R/W PER WARRANTY DEED UNDER A.F.N. 8708110370
AFFECTS PARCEL NO. 032136-2056

MON LEAD&TACK #178
N: 709882.76
E: 1175405.11
ELEV: 15.73

1' TO 3' EASEMENT FOR STREET PURPOSES PER A.F.N. 8708110371
(NOTED AS PARCEL 'C' IN A.F.N. 8708110371)

SCRIBE #9
N: 709745.89
E: 1175487.77
ELEV: 16.43

HORIZONTAL SCALE: 1"=30'
30 0 30 60

TOPOGRAPHIC SURVEY - AREA 4
SCALE: 1" = 30'

LEGEND

- FOUND MONUMENT/ REBAR AS NOTED
- SURVEY CONTROL POINT
- 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
- PILE
- WETLAND FLAG
- TPN TAX PARCEL NUMBER
- X.X'N.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
- 25 SCHED. B EXCEPTION NUMBER
- 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
- RAILROAD TRACKS
- WETLAND DELINEATION
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP-RAP SURFACE
- AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
- WETLAND AREA

8	7	6	5	NOT USED
1	2	3	4	

KEY PLAN
SCALE: NTS

NORTH

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

sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
813 CENTERS STREET | TACOMA, WA. 98409
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MARK:	REVISION:	BY:	APPR:	DATE:

PRELIMINARY
STEPHEN R. SCHILLING
STATE OF WASHINGTON
16858
REGISTERED LAND SURVEYOR
PROFESSIONAL LAND SURVEYOR

APPROVED:

DS	CHECKED BY	DATE
DS	DIRECTOR ENG.	DATE

PRINTED BY: schillingd Jul 09, 2024

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TOPOGRAPHIC SURVEY - AREA 4

CONT/CONS:	072075	TOWNSHIP: 21 NORTH | RANGE: 3 EAST | SECTION: 36	PROJ. ENGR
M. ID:	101585.01	DAT–HRZ: WA83/2011 | VERT: MLLW 15.73' @ POT MON #178	PORT ADDRESS: ONE SITCUM PLAZA
PHASE:	30%	PARCEL: 0321351053 | DRAWING SCALE: AS NOTED	TACOMA, WA 98401–1837

SH # 9 OF 72

6698 SV1.4

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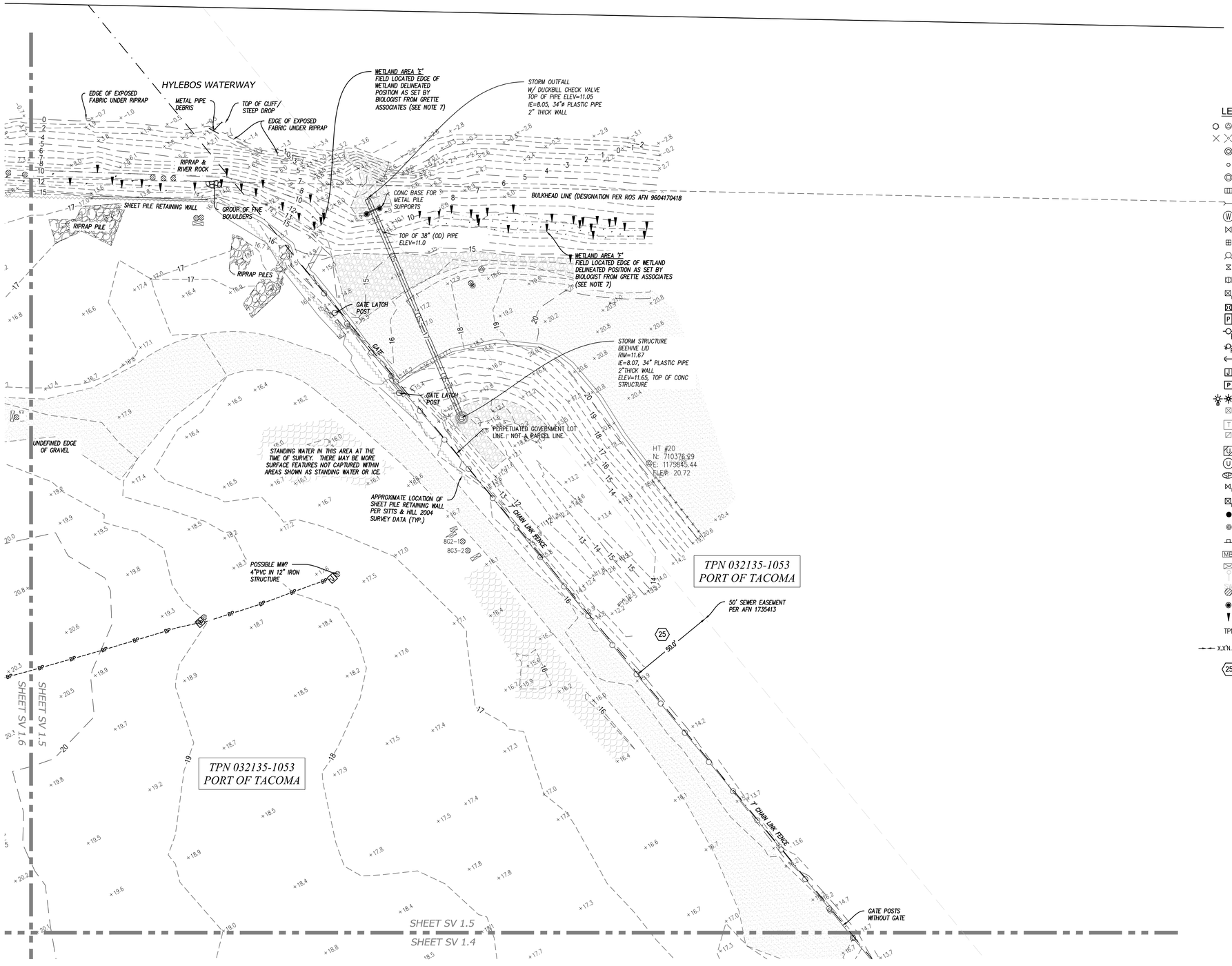


TOPOGRAPHIC SURVEY - AREA 5

SCALE: 1" = 30'

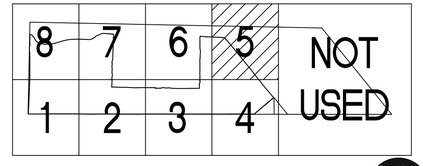
HORIZONTAL SCALE: 1"=30'

30 0 30 60

LEGEND

- FOUND MONUMENT/ REBAR AS NOTED
- SURVEY CONTROL POINT
- 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
- PILE
- WETLAND FLAG
- TPN TAX PARCEL NUMBER
- X.X'N.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
- 25 SCHED. B EXCEPTION NUMBER

- 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
- RAILROAD TRACKS
- WETLAND DELINEATION
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP-RAP SURFACE
- AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
- WETLAND AREA



KEY PLAN

SCALE: NTS

NORTH

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REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF WASHINGTON
DARREN B. SCHILLING
18599
REGISTERED
PROFESSIONAL LAND SURVEYOR
PRELIMINARY

DS	03/22/24	DS	03/22/24
CHECKED BY	DATE	PROJ. ENGR	DATE

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: schillingd Jul 09, 2024

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

TOPOGRAPHIC SURVEY - AREA 5

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698

SV1.5

SH # 10 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

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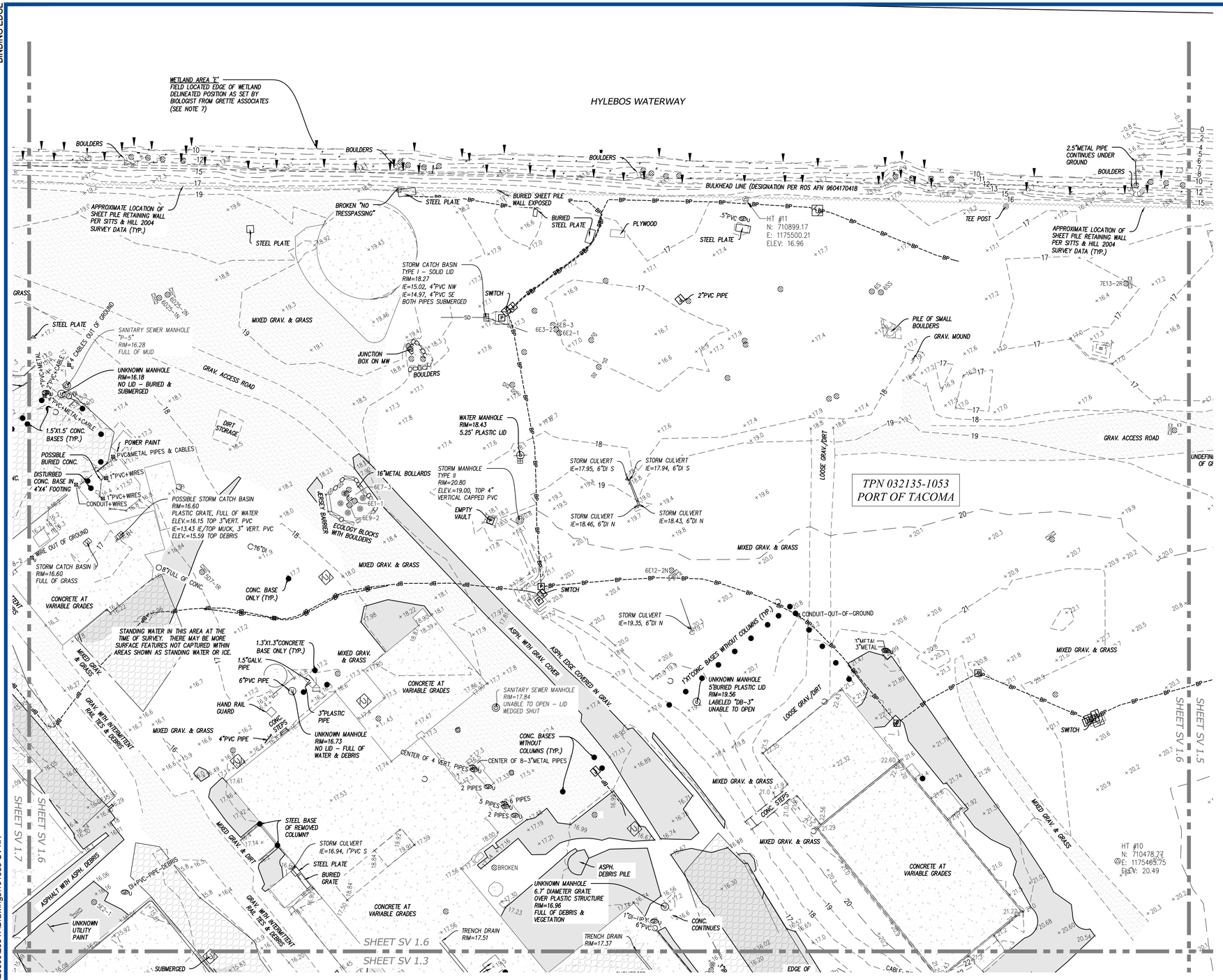

TOPOGRAPHIC SURVEY - AREA 6

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

LEGEND

- FOUND MONUMENT/ REBAR AS NOTED
- SURVEY CONTROL POINT
- 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)
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- TELECOM VAULT
- TELECOM JUNCTION BOX
- UTILITY VAULT
- UTILITY MANHOLE
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- UNKNOWN VALVE
- UNKNOWN RISER
- COLUMN
- BOLLARD
- SIGN
- MAILBOX
- ECOLOGY BLOCK
- RAILROAD SWITCH
- MONITORING WELL
- PILE
- WETLAND FLAG
- TPN TAX PARCEL NUMBER
- X.X'N.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
- (25) SCHED. B EXCEPTION NUMBER

- 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
- RAILROAD TRACKS
- WETLAND DELINEATION
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP–RAP SURFACE
- AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
- WETLAND AREA

8 7 6 5 NOT USED
1 2 3 4

KEY PLAN

SCALE: NTS

NORTH

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

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PHONE: (253) 474-0430 | FAX: (253) 474-0153
EMAIL: INFO@SITTSHILL.COM

MARK:	REVISION:	BY:	APPR:	DATE:

REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF WASHINGTON
DAVID SCHILLING
16698
PRELIMINARY

DS	03/22/24	
CHECKED BY	DATE	
DS	03/22/24	
DIRECTOR ENG.	DATE	

APPROVED:

PRINTED BY: schillingd Jul 09, 2024
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TOPOGRAPHIC SURVEY - AREA 6

TOWNSHIP: 21 NORTH | RANGE: 3 EAST | SECTION: 36
DAT–HRZ: WA83/2011 | VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053

6698
SV1.6
SH # 11 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

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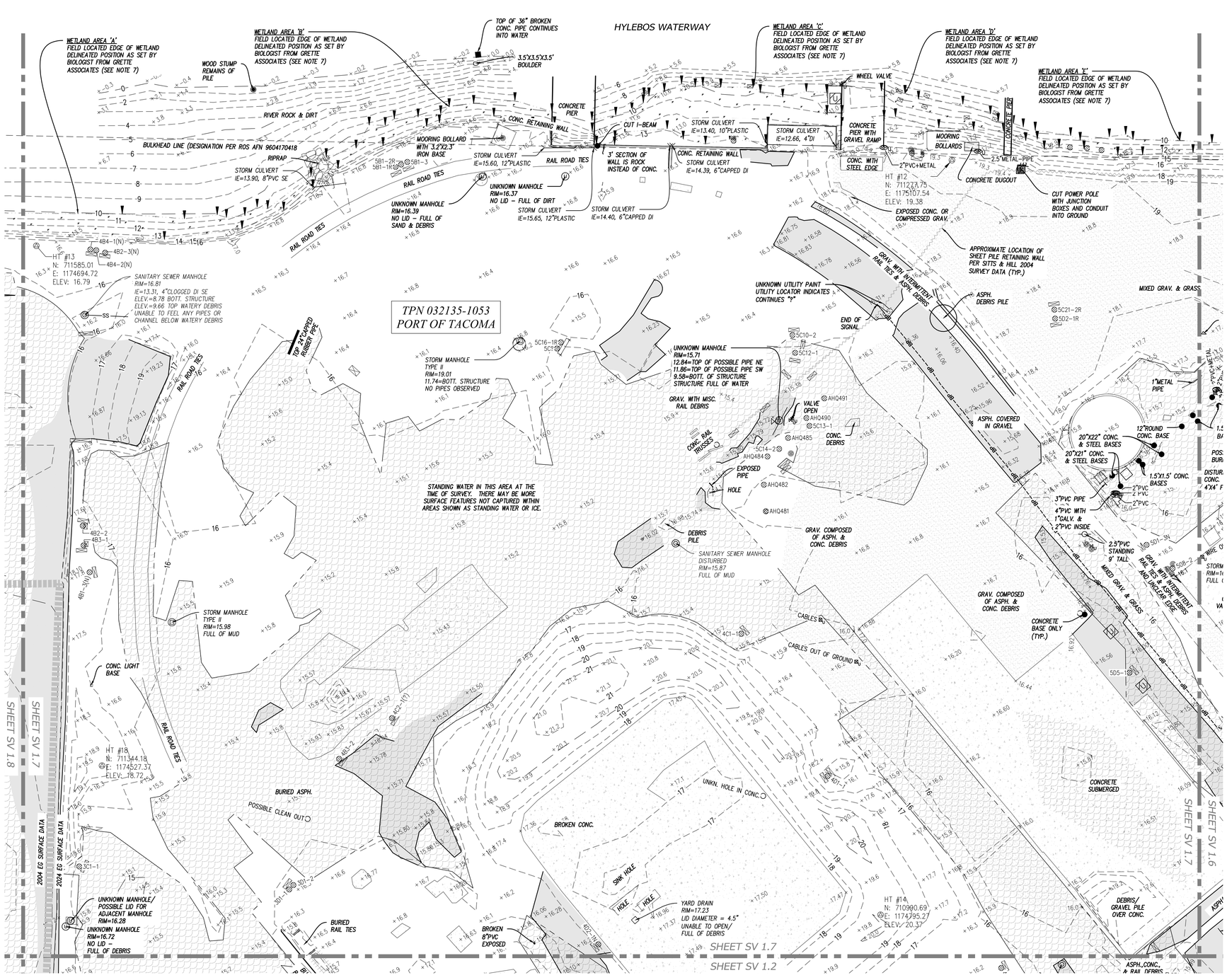

HORIZONTAL SCALE: 1"=30'

30 0 30 60

LEGEND

- FOUND MONUMENT/ REBAR AS NOTED
- SURVEY CONTROL POINT
- SANITARY SEWER MANHOLE
- UTILITY CLEAN OUT
- STORM MANHOLE
- STORM CATCH BASIN
- STORM CULVERT
- WATER MANHOLE
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- WATER METER
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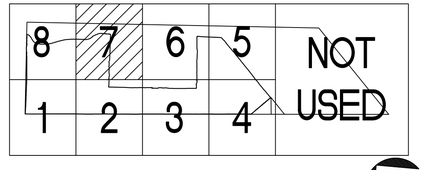
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP-RAP SURFACE
- AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
- WETLAND AREA

TOPOGRAPHIC SURVEY - AREA 7

SCALE: 1" = 30'



KEY PLAN

SCALE: NTS

NORTH

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STATE OF WASHINGTON
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REGISTERED PROFESSIONAL LAND SURVEYOR

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PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TOPOGRAPHIC SURVEY - AREA 7

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	PRINTED BY: schillingd Jul 09, 2024
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		PORT ADDRESS:ONE SITCUM PLAZA
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED		TACOMA, WA 98401-1837

6698
SV1.7
SH # 12 OF 72

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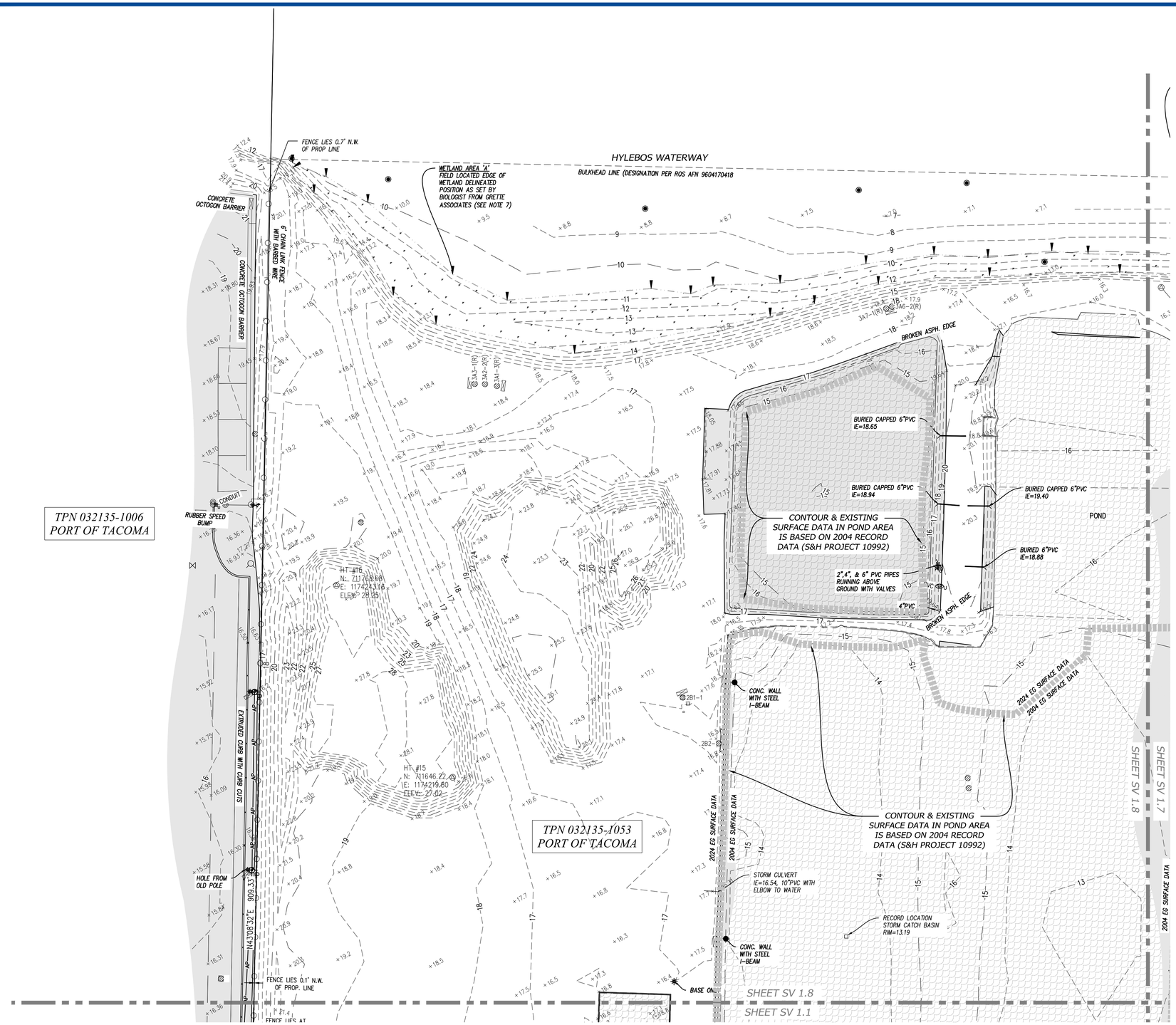


TOPOGRAPHIC SURVEY - AREA 8

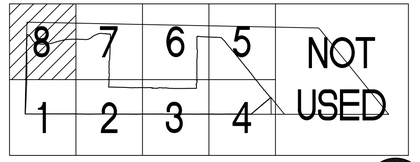
SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

LEGEND

FOUND MONUMENT/ REBAR AS NOTED	PARCEL LINE
SURVEY CONTROL POINT	ROAD CENTERLINE
SANITARY SEWER MANHOLE	RIGHT OF WAY LINE
UTILITY CLEAN OUT	EASEMENT LINE
STORM MANHOLE	STORM DRAIN LINE
STORM CATCH BASIN	RECORD STORM LINE
STORM CULVERT	SANITARY SEWER LINE
WATER MANHOLE	RECORD SANITARY LINE
WATER VALVE	BURIED WATER LINE
WATER METER	RECORD WATER LINE
FIRE HYDRANT	BURIED GAS LINE
IRRIGATION CONTROL VALVE	RECORD GAS LINE
GAS VALVE	BURIED POWER LINE
GAS RISER	RECORD BURIED POWER
POWER METER	OVERHEAD POWER LINE
POWER CABINET	BURIED TELECOM LINE
UTILITY POLE	RECORD TELECOM LINE
UTILITY POLE WITH DROP(S)	CHAIN LINK FENCE
GUY ANCHOR	RAILROAD TRACKS
JUNCTION BOX	WETLAND DELINEATION
POWER VAULT	ASPHALT SURFACE
LIGHT POLE	CONCRETE SURFACE
TELECOM RISER	GRAVEL SURFACE
TELECOM VAULT	RIP-RAP SURFACE
TELECOM JUNCTION BOX	AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
UTILITY VAULT	WETLAND AREA
UTILITY MANHOLE	
UNKNOWN STAND PIPE	
UNKNOWN VALVE	
UNKNOWN RISER	
COLUMN	
BOLLARD	
SIGN	
MAILBOX	
ECOLOGY BLOCK	
RAILROAD SWITCH	
MONITORING WELL	
PILE	
WETLAND FLAG	
TPN TAX PARCEL NUMBER	
X.X'N.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE	
(25) SCHED. B EXCEPTION NUMBER	



KEY PLAN

SCALE: NTS

NORTH

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

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CHRISTOPHER B. SCHILLING
STATE OF WASHINGTON
16858
PRELIMINARY

APPROVED:			
	DIRECTOR, ENG.	DATE	
DS	CHECKED BY	DATE	03/22/24
DS	PROJ. ENGR	DATE	03/22/24

PRINTED BY: schillingd Jul 09, 2024
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TOPOGRAPHIC SURVEY - AREA 8

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

SECTION: 36

6698
SV1.8
SH # 13 OF 72

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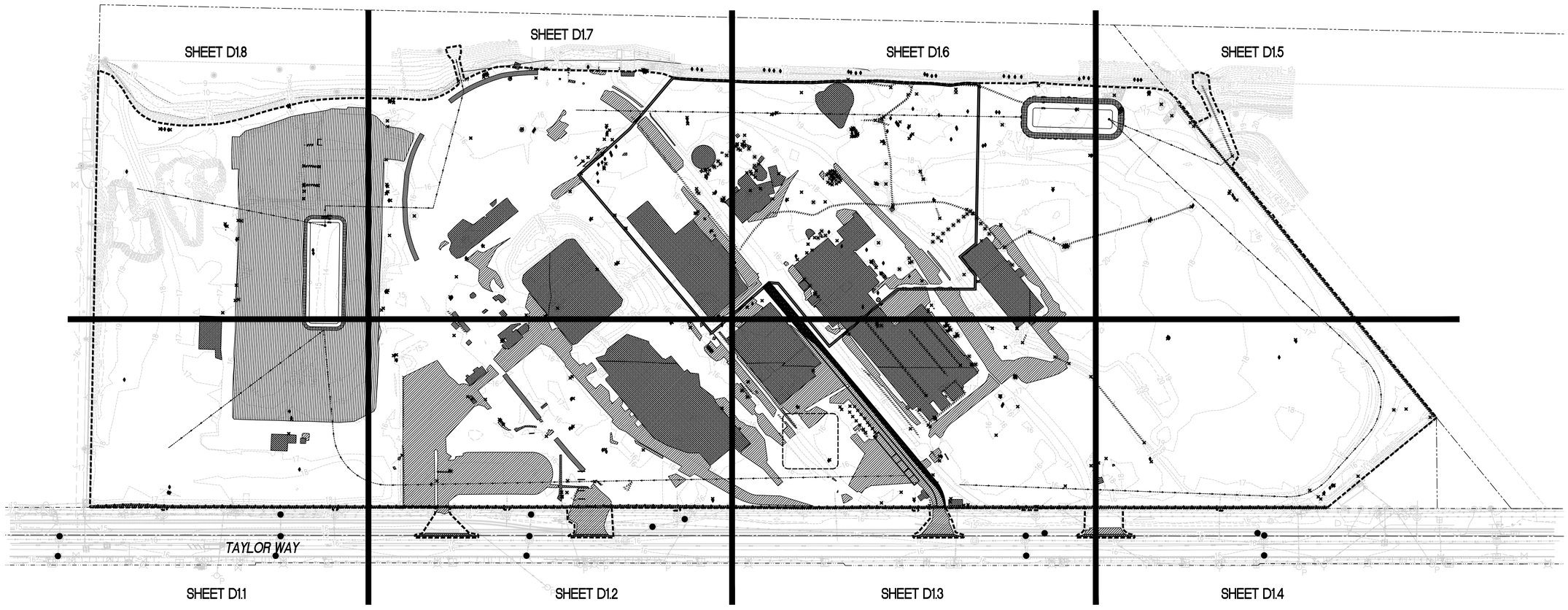
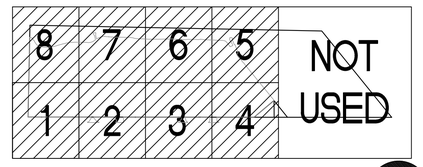


OVERALL TESC AND DEMOLITION PLAN
SCALE: 1" = 100'

HORIZONTAL SCALE: 1"=100'
100 0 100 200

NORTH



KEY PLAN
SCALE: NTS

NORTH

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www.sittsandhill.com

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MARK:	REVISION:	BY:	APPR:	DATE:

PRELIMINARY
RICHARD C. HANDY
STATE OF WASHINGTON
21978
REGISTERED PROFESSIONAL ENGINEER

APPROVED:

DIRECTOR ENG. DATE

RCH 07/19/24
CHECKED BY DATE

RCH 07/19/24
PROJ. ENGR DATE

PRINTED BY: srebrob Jul 17, 2024
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
OVERALL TESC AND DEMOLITION PLAN

6698
D1.0
SH # 15 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

TOWNSHIP: 21 NORTH | RANGE: 3 EAST | SECTION: 36
DAT-HRZ: WA83/2011 | VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053

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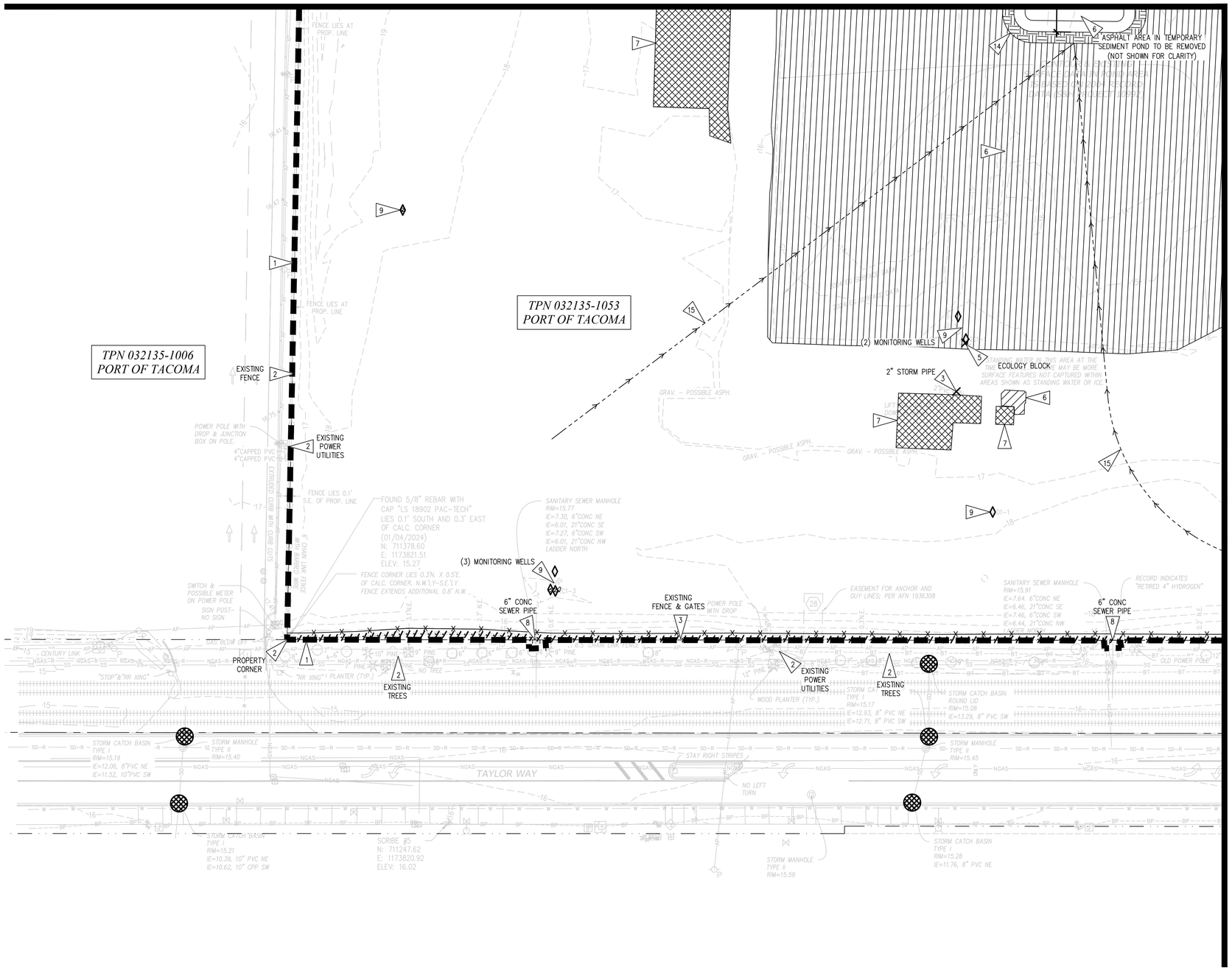
BINDING EDGE

MATCHLINE SEE SHEET D1.8



LEGEND

- CATCH BASIN PROTECTION, PER DETAIL 1/D1.11
- SILT FENCE, PER DETAIL 2/D1.11
- CONVEYANCE DITCH, PER DETAIL 6/D1.11
- CLEARING AND GRUBBING LIMITS
- BARRIER WALL, FOR COORDINATION PURPOSES ONLY
- DEMOLITION, AS NOTED
- CONCRETE DEMOLITION
- ASPHALT DEMOLITION
- RAILROAD DEMOLITION
- SEDIMENT POND, PER DETAIL 7,8,9 & 10/D1.11
- CONSTRUCTION ENTRANCE
- WHEEL WASH, AREA
- DEMOLITION, AS NOTED
- MONITORING WELL

GENERAL NOTES

1. SEE SHEET G1.X FOR PROJECT NOTES.
2. SEE SHEETS D1.9 – D1.11 FOR EROSION CONTROL AND DEMOLITIONS NOTES AND DETAILS.
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2. PROTECT EXISTING FEATURE, AS NOTED.
3. REMOVE/DEMOLISH EXISTING FEATURE, AS NOTED, AND DISPOSE OF OFFSITE.
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8. CAP/PLUG EXISTING UTILITY ENDS AT PROPERTY LINE AND ABANDON UTILITY.
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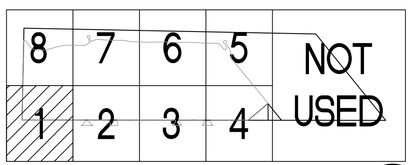
13. REMOVE AND REUSE EXISTING RIP RAP MATERIAL.
14. SEDIMENT POND PER DETAIL 7,8,9 AND 10/D1.11.
15. INTERCEPTOR SWALE PER DETAIL 6/D1.11.
16. POTENTIAL STOCKPILE AREA. PROTECT WITH SEEDING PER SEEDING NOTES ON D1.10 AND OR PLASTIC COVERING PER DETAIL 5/D1.11.



KEY PLAN
SCALE: NTS

NORTH

TESC AND DEMOLITION PLAN - AREA 1
SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH

PORT OF TACOMA FILE: O:\20300\20347\Drawings\101585-D1.X

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HILAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION — SIGNATURE EXPIRES: 07/19/24

RCH	07/19/24	RCH	07/19/24
CHECKED BY	DATE	PROJ. ENGR	DATE

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: srebrob Jul 17, 2024

PORT ADDRESS:ONE SITCUM PLAZA

TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TESC AND DEMOLITION PLAN - AREA 1

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

6698
D1.1
SH # 15 OF 72

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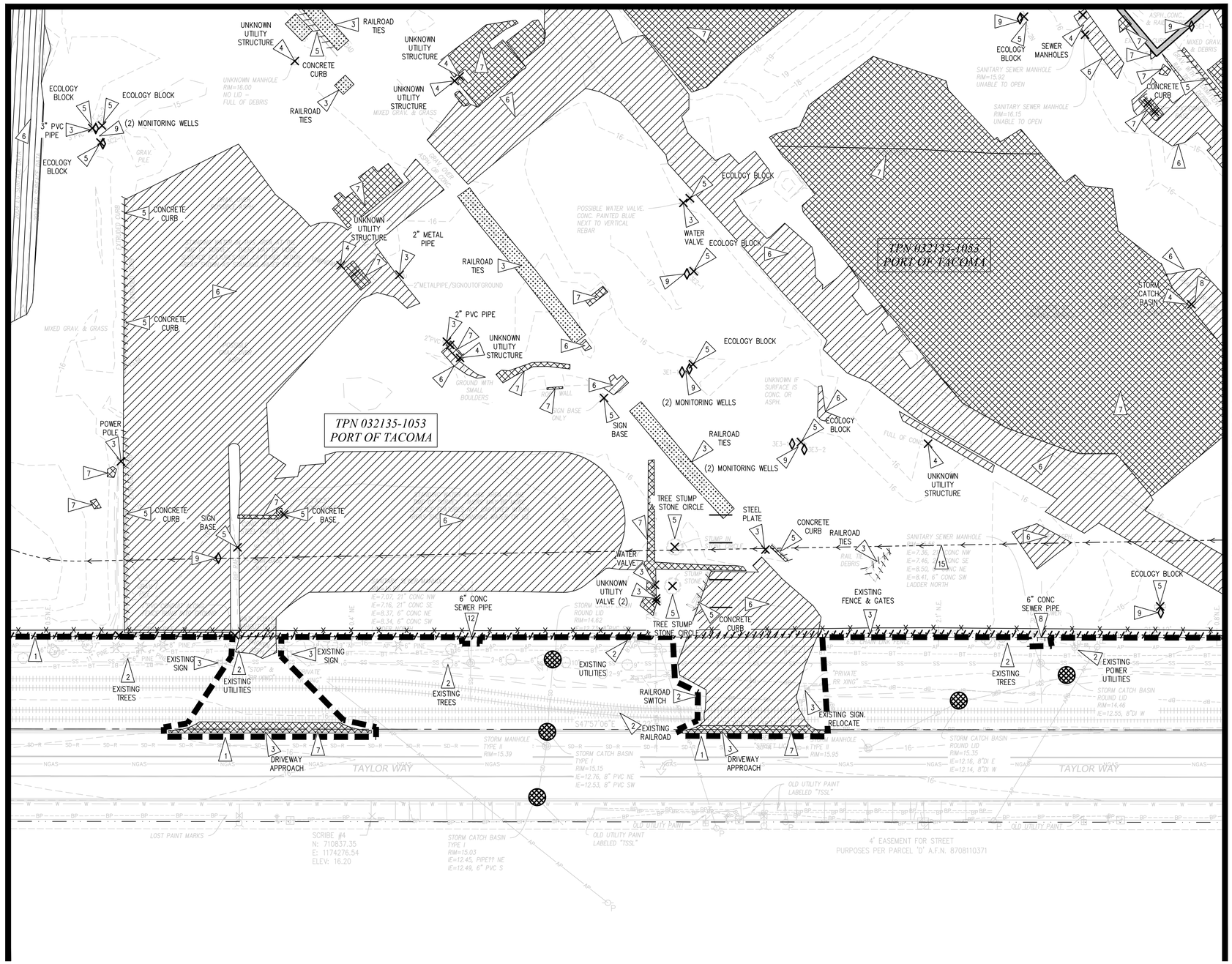
BINDING EDGE

MATCHLINE SEE SHEET D1.7



MATCHLINE SEE SHEET D1.1

MATCHLINE SEE SHEET D1.3

LEGEND

- CATCH BASIN PROTECTION, PER DETAIL 1/D1.11
- SILT FENCE, PER DETAIL 2/D1.11
- CONVEYANCE DITCH, PER DETAIL 6/D1.11
- CLEARING AND GRUBBING LIMITS
- BARRIER WALL, FOR COORDINATION PURPOSES ONLY
- DEMOLITION, AS NOTED
- CONCRETE DEMOLITION
- ASPHALT DEMOLITION
- RAILROAD DEMOLITION
- SEDIMENT POND, PER DETAIL 7,8,9 & 10/D1.11
- CONSTRUCTION ENTRANCE
- WHEEL WASH, AREA
- DEMOLITION, AS NOTED
- MONITORING WELL

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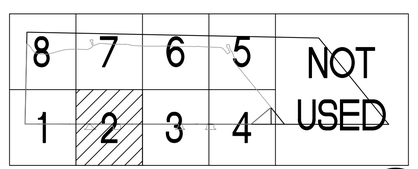

KEY PLAN
SCALE: NTS

NORTH

TESC AND DEMOLITION PLAN - AREA 2
SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION

APPROVED:

RCH	DIRECTOR ENG.	DATE
RCH	PROJ. ENGR	DATE
07/19/24	CHECKED BY	DATE
07/19/24	PRINTED BY:	srebrob Jul 17, 2024

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TESC AND DEMOLITION PLAN - AREA 2

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST | SECTION: 36
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401–1837

6698
D1.2
SH # 16 OF 72

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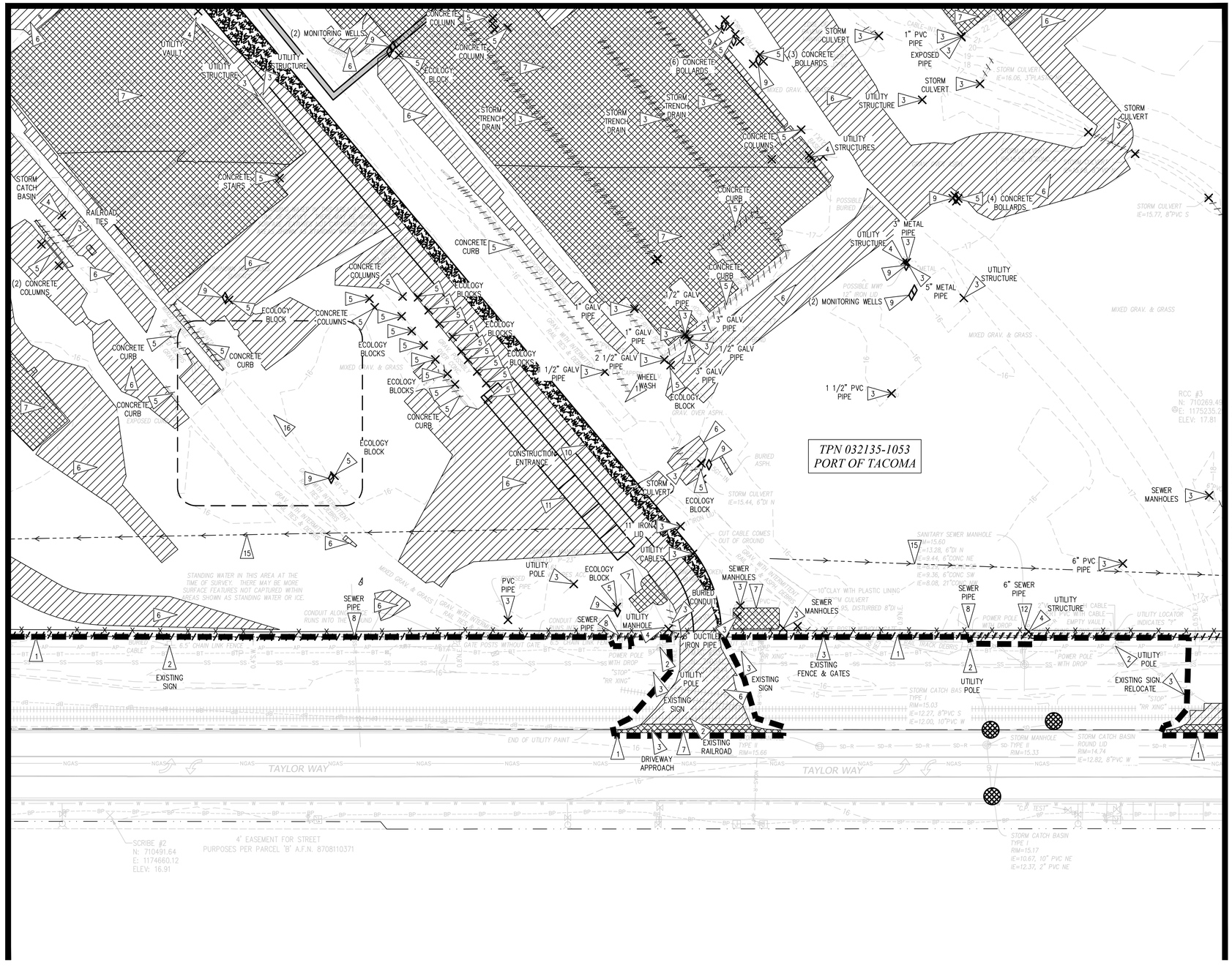
PORT OF TACOMA FILE: O:\20300\20347\Drawings\101585-D1.X

BINDING EDGE

MATCHLINE SEE SHEET D1.6

MATCHLINE SEE SHEET D1.2

MATCHLINE SEE SHEET D1.4



TESC AND DEMOLITION PLAN - AREA 3

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

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- CONVEYANCE DITCH, PER DETAIL 6/D1.11
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- WHEEL WASH, AREA
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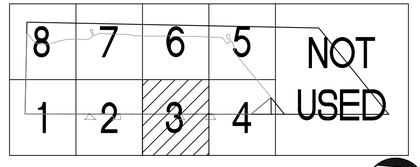

KEY PLAN

SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER
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RCH	07/19/24	
CHECKED BY	DATE	
RCH	07/19/24	
PROJ. ENGR	DATE	

APPROVED:

DIRECTOR ENG. DATE

srebrob Jul 17, 2024

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PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

TESC AND DEMOLITION PLAN - AREA 3

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

SECTION: 36

6698

D1.3

SH # 17 OF 72

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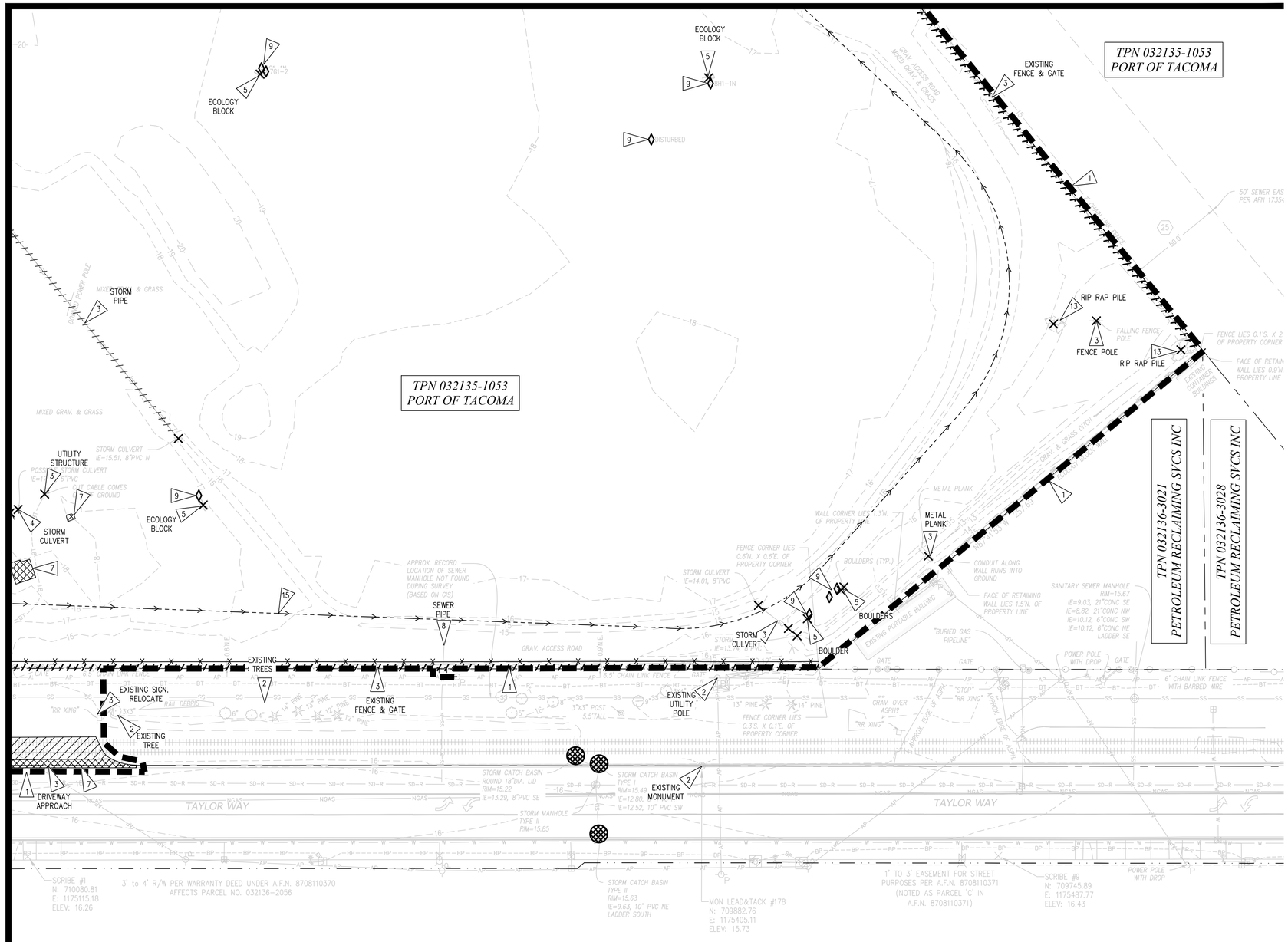
BINDING EDGE

MATCHLINE SEE SHEET D1.3

MATCHLINE SEE SHEET D1.5



TESC AND DEMOLITION PLAN - AREA 4

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

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- WHEEL WASH, AREA
- DEMOLITION, AS NOTED
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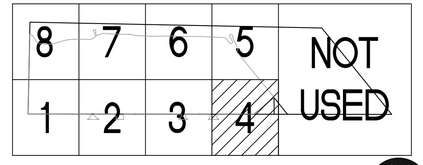

KEY PLAN

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MARK:	REVISION:	BY:	APPR:	DATE:

PRELIMINARY
NOT FOR CONSTRUCTION
RICHARD C. HANDY
STATE OF WASHINGTON
20780
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY:	RCH	07/19/24	
DRAWN BY:	RCH	07/19/24	
CHECKED BY	DATE		
APPROVED:			
DIRECTOR_ENG.	DATE		
PROJ. ENGR	DATE		
PRINTED BY:	srebrob	Jul 17, 2024	

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TESC AND DEMOLITION PLAN - AREA 4

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401–1837			

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

6698
D1.4
SH # 18 OF 72

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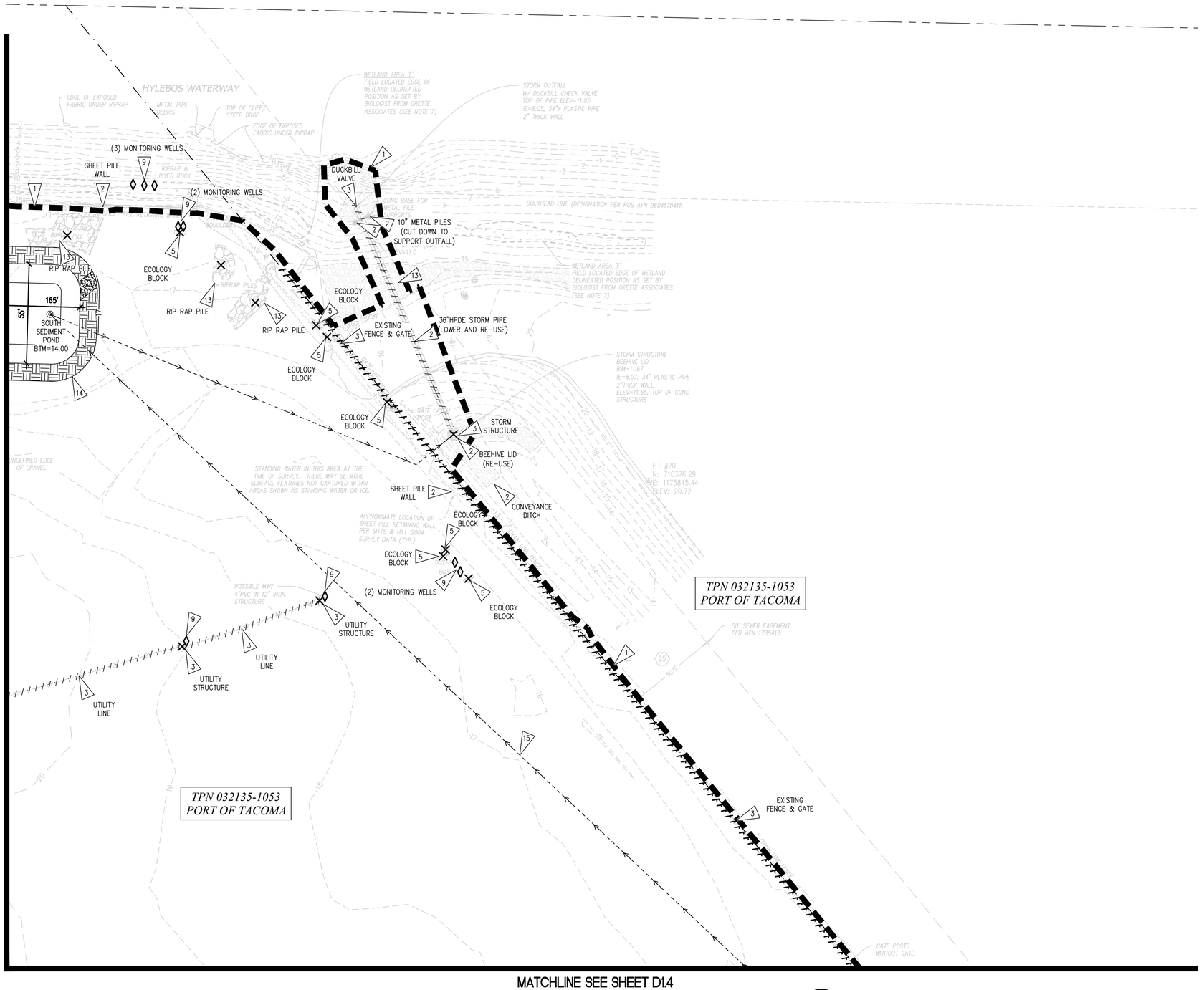
PORT OF TACOMA FILE: O:\20300\20347\Drawings\101585-D1.X

BINDING EDGE



TESC AND DEMOLITION PLAN - AREA 5

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

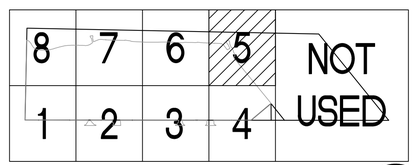
- CATCH BASIN PROTECTION, PER DETAIL 1/D1.11
- SILT FENCE, PER DETAIL 2/D1.11
- CONVEYANCE DITCH, PER DETAIL 6/D1.11
- CLEARING AND GRUBBING LIMITS
- BARRIER WALL, FOR COORDINATION PURPOSES ONLY
- DEMOLITION, AS NOTED
- CONCRETE DEMOLITION
- ASPHALT DEMOLITION
- RAILROAD DEMOLITION
- SEDIMENT POND, PER DETAIL 7,8,9 & 10/D1.11
- CONSTRUCTION ENTRANCE
- WHEEL WASH, AREA
- DEMOLITION, AS NOTED
- MONITORING WELL

GENERAL NOTES

1. SEE SHEET G1.X FOR PROJECT NOTES.
2. SEE SHEETS D1.9 – D1.11 FOR EROSION CONTROL AND DEMOLITIONS NOTES AND DETAILS.
3. EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATIONS WHERE KNOWN BASED ON FIELD SURVEY PERFORMED BY SITTS & HILL ENGINEERS, INC FROM DECEMBER 2023 THROUGH FEBRUARY 2024. OTHER EXISTING BURIED UTILITIES MAY EXIST THAT ARE NOT SHOW THESE PLANS. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEIR LOCATION MARKED ON THE GROUND PRIOR TO CONSTRUCTION.
4. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITTS & HILL ENGINEERS, INC. SEE SURVEY SHEETS INCLUDED WITH THIS PLAN SET FOR ADDITIONAL INFORMATION, INCLUDING HORIZONTAL AND VERTICAL DATUM.
5. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEAD–PERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
6. THE CONTRACTOR CAN USE THE EXISTING FENCE AS SILT FENCE PER DETAIL 2/D1.11 PRIOR TO DEMOLITION OR THE CONTRACTOR CAN INSTALL TEMPORARY FENCING AROUND WORK AREA, AS NECESSARY TO MAINTAIN A SECURE SITE.
7. CONTRACTOR TO PROTECT EXISTING FEATURES BEYOND THE DEMOLITION AND CLEARING LIMITS AND REPAIR ANY DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONSTRUCTION ENTRANCES SHALL BE FROM EXISTING GRAVEL AND ASPHALT SURFACES FROM TAYLOR WAY. THE CONTRACTOR SHALL INSTALL A CONSTRUCTION ENTRANCE PER 3/D1.11
9. THE CONTRACTOR SHALL SWEEP EXISTING PAVEMENTS TO REMAIN, AS NECESSARY TO KEEP THEM IN A SEDIMENT FREE CONDITION AND AS NECESSARY TO PREVENT TRACK–OUT ONTO ADJACENT PAVEMENTS WITHIN THE RIGHT–OF–WAY.
10. THE CONTRACTOR SHALL PRESERVE TREES AND VEGETATION, AS REQUIRED ON THE LANDSCAPING PLANS.

KEY NOTES

1. CLEARING AND GRUBBING LIMITS.
2. PROTECT EXISTING FEATURE, AS NOTED.
3. REMOVE/DEMOLISH EXISTING FEATURE, AS NOTED, AND DISPOSE OF OFFSITE.
4. REMOVE TOP OF EXISTING STRUCTURE, INCLUDING THE STRUCTURE FLAT TOP OR CONE SECTION AND RUBBLIZE CONCRETE ONSITE. ABANDON BASE OF EXISTING STRUCTURE.
5. REMOVE EXISTING FEATURE. RUBBLIZE THE FEATURE CONCRETE AND STOCKPILE ONSITE FOR REUSE. DISPOSE OF THE FEATURE REMAINING NON–CONCRETE ITEMS OFF–SITE.
6. RUBBLIZE EXISTING ASPHALT CONCRETE AND STOCKPILE ONSITE FOR REUSE.
7. RUBBLIZE EXISTING CONCRETE AND STOCKPILE ONSITE FOR REUSE. CONCRETE SHALL INCLUDE SLABS, BUILDING FOOTINGS, STAIRS.
8. CAP/PLUG EXISTING UTILITY ENDS AT PROPERTY LINE AND ABANDON UTILITY.
9. EXISTING MONITORING WELL STATUS TO BE DETERMINED AT A LATER DATE (ABANDON OR REMAIN).
10. CONSTRUCTION ENTRANCE TO BE FROM RUBBLIZED CONCRETE PER DETAIL 3/D1.11.
11. CONSTRUCTION ENTRANCE WHEEL WASH PER DETAIL 4/D1.11.
12. PROVIDE 6" CLEANOUT CONNECTION PER DETAIL 5/U1.9.
13. REMOVE AND REUSE EXISTING RIP RAP MATERIAL.
14. SEDIMENT POND PER DETAIL 7,8,9 AND 10/D1.11.
15. INTERCEPTOR SWALE PER DETAIL 6/D1.11.
16. POTENTIAL STOCKPILE AREA. PROTECT WITH SEEDING PER SEEDING NOTES ON D1.10 AND OR PLASTIC COVERING PER DETAIL 5/D1.11.



KEY PLAN

SCALE: NTS

NORTH

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

sitts & hill
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY
615 CENTER STREET | TACOMA, WA. 98409
PHONE: (253) 474-9449 | FAX: (253) 474-9150
WWW.SITTSHILL.COM

MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — SIGNATURE NOT FOR CONSTRUCTION

APPROVED:		CHECKED BY	RCH 07/19/24
		PROJ. ENGR	RCH 07/19/24
	DIRECTOR ENG.	DATE	
	PRINTED BY:	srebrob Jul 17, 2024	
	PORT ADDRESS:	ONE SITCUM PLAZA	
		TACOMA, WA 98401–1837	

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

TESC AND DEMOLITION PLAN - AREA 5

TOWNSHIP:	21 NORTH	RANGE: 3 EAST	SECTION: 36
DAT–HRZ:	WA83/2011	VERT:	MLLW 15.73' @ POT MON #178
PARCEL:	0321351053	DRAWING SCALE:	AS NOTED

6698

D1.5

SH # 19 OF 72

CONT/CONS: 072075

M. ID: 101585.01

PHASE: 30%

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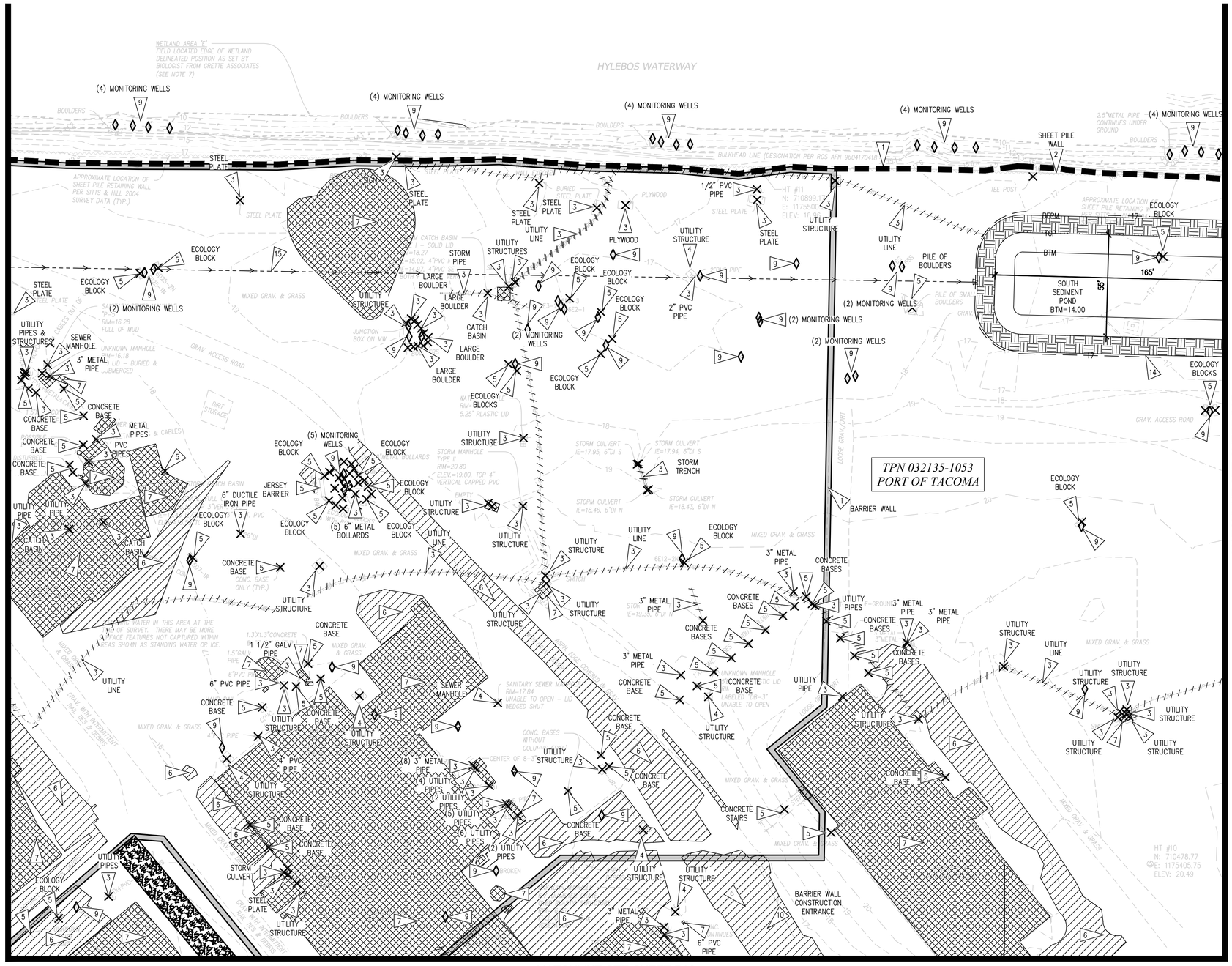

MATCHLINE SEE SHEET D1.7

MATCHLINE SEE SHEET D1.5

MATCHLINE SEE SHEET D1.3

TESC AND DEMOLITION PLAN - AREA 6

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH

LEGEND

- CATCH BASIN PROTECTION, PER DETAIL 1/D1.11
- SILT FENCE, PER DETAIL 2/D1.11
- CONVEYANCE DITCH, PER DETAIL 6/D1.11
- CLEARING AND GRUBBING LIMITS
- BARRIER WALL, FOR COORDINATION PURPOSES ONLY
- DEMOLITION, AS NOTED
- CONCRETE DEMOLITION
- ASPHALT DEMOLITION
- RAILROAD DEMOLITION
- SEDIMENT POND, PER DETAIL 7,8,9 & 10/D1.11
- CONSTRUCTION ENTRANCE
- WHEEL WASH, AREA
- DEMOLITION, AS NOTED
- MONITORING WELL

GENERAL NOTES

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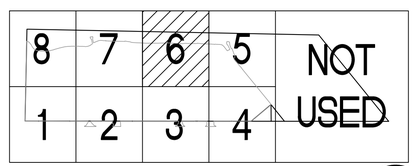

KEY PLAN

SCALE: NTS

NORTH

Port of Tacoma
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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HILAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION

CHECKED BY	RCH	07/19/24 DATE
PROJ. ENGR	RCH	07/19/24 DATE

APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: srebrob Jul 17, 2024
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TESC AND DEMOLITION PLAN - AREA 6

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

6698
D1.6
SH # 20 OF 72

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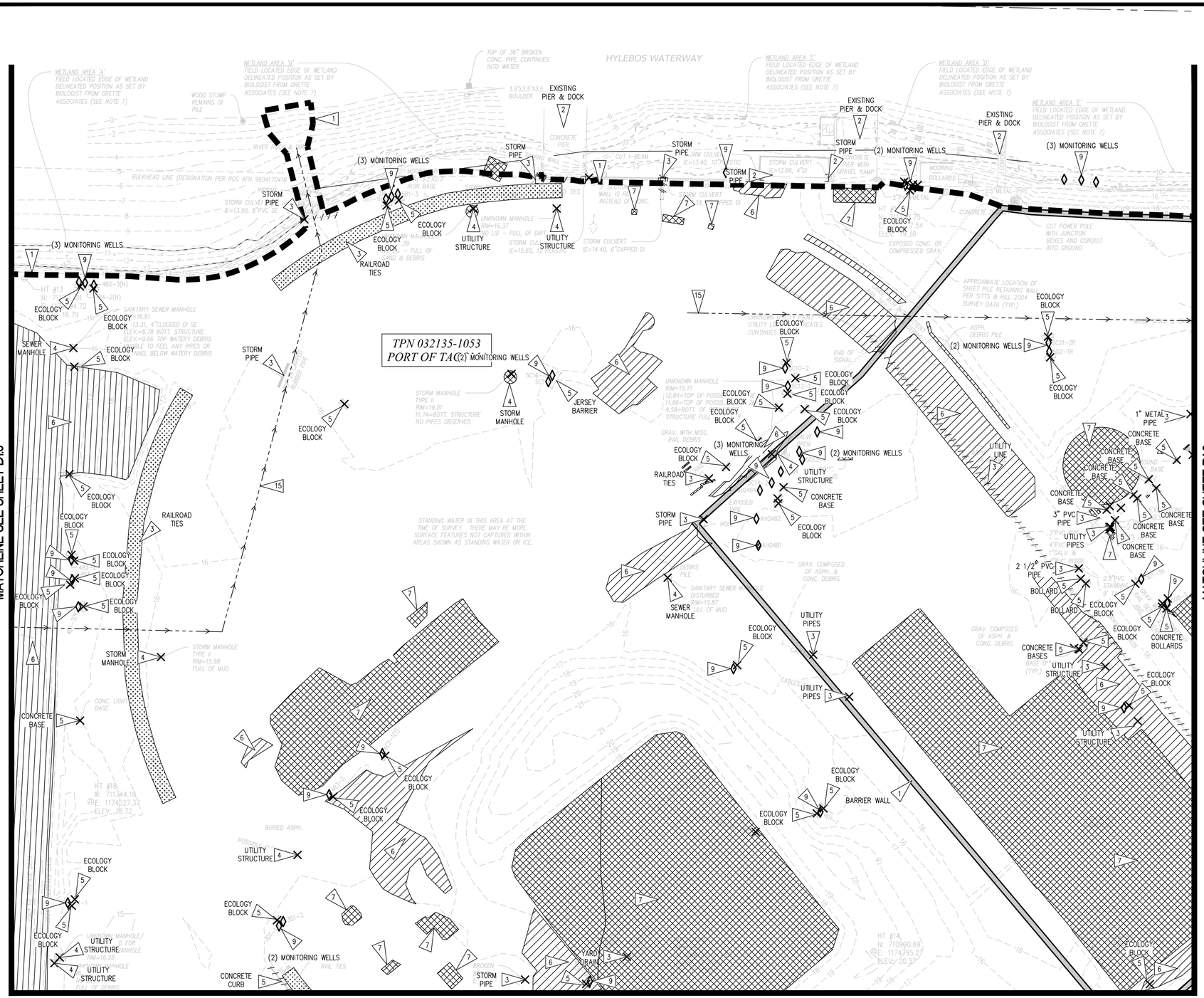

TESC AND DEMOLITION PLAN - AREA 7

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

- CATCH BASIN PROTECTION, PER DETAIL 1/D1.11
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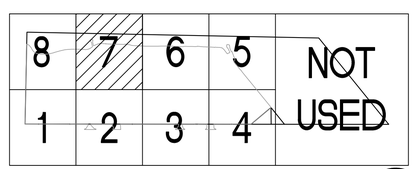

KEY PLAN

SCALE: NTS

NORTH

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FAX: (253) 474-0153

MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — SIGNATURE DATE

APPROVED:				
	DIRECTOR, ENG.	DATE	PROJ. ENGR	07/19/24
	PRINTED BY: srebrob Jul 17, 2024		CHECKED BY	DATE
	PORT ADDRESS: ONE SITCUM PLAZA		RCH	07/19/24
	TACOMA, WA 98401–1837		RCH	

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

TESC AND DEMOLITION PLAN - AREA 7

CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE: 30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

6698

D1.7

SH # 21 OF 72

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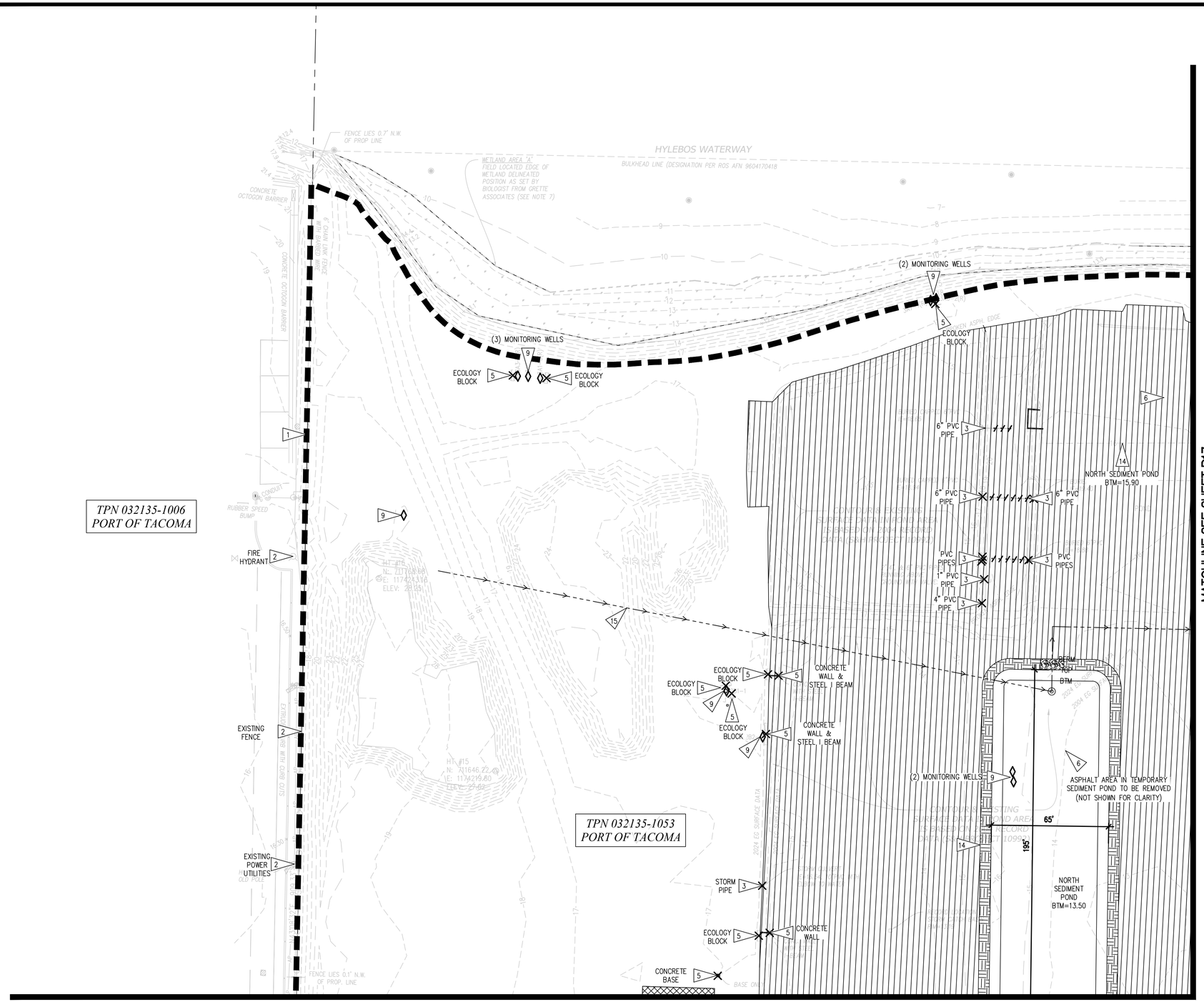

TESC AND DEMOLITION PLAN - AREA 8

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

- CATCH BASIN PROTECTION, PER DETAIL 1/D1.11
- SILT FENCE, PER DETAIL 2/D1.11
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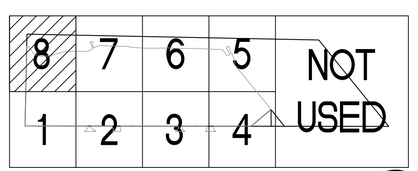
14. SEDIMENT POND PER DETAIL 7,8,9 AND 10/D1.11.
15. INTERCEPTOR SWALE PER DETAIL 6/D1.11.
16. POTENTIAL STOCKPILE AREA. PROTECT WITH SEEDING PER SEEDING NOTES ON D1.10 AND OR PLASTIC COVERING PER DETAIL 5/D1.11.



KEY PLAN

SCALE: NTS

NORTH

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RICHARD C. HANSEN — STATE OF WASHINGTON — 25780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION

APPROVED:			
	DIRECTOR ENG.	DATE	
RCH	CHECKED BY	DATE	07/19/24
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	PORT ADDRESS:	ONE SITCUM PLAZA	
		TACOMA, WA 98401–1837	

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TESC AND DEMOLITION PLAN - AREA 8

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST | SECTION: 36
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

6698
D1.8
SH # 22 OF 72

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BINDING EDGE

CITY OF TACOMA STANDARD NOTES FOR TESC PLANS

1. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF TESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/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 MARKING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

3. THE TESC 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 THE 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 SITES 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 13 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. (REQUIRED FOR SITES LARGER THAN 1 ACRE BUT RECOMMENDED FOR ALL SITES).

   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.

10. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN SEDIMENT TRAP.

11. 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.

12. 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.

DEFINITIONS

DEMOLISH: CAREFULLY REMOVE EXISTING ITEM AS INDICATED AND LEGALLY DISPOSE OF SAME OFFSITE.

REUSE/RELOCATE: CAREFULLY REMOVE EXISTING ITEM, INTACT, AS INDICATED, TEMPORARILY STORE (IF NECESSARY) AND PROTECT (FOR REINSTALLATION, INTACT, AS INDICATED).

SALVAGE: CAREFULLY REMOVE EXISTING ITEM, INTACT, AS INDICATED, AND DELIVER TO OWNER/OTHER, INTACT, AS INSTRUCTED.

PROTECT: LEAVE EXISTING ITEM IN PLACE, INTACT, AS INDICATED, AND PROTECT FROM DAMAGE. THIS IS PART OF EXISTING-TO-REMAIN AND IS SPECIFICALLY NOTED ONLY FOR CLARIFICATION PURPOSES.

NOTE: THE CONTRACTOR SHALL VISIT THE SITE TO PERFORM A THOROUGH WALK THROUGH TO EXAMINE ALL ITEMS TO BE "DEMOLISHED," "REUSE/RELOCATED", "SALVAGED" OR "SAVED". ALL ITEMS SHALL BE INCLUDED IN THE CONTRACTORS SCOPE OF WORK AND BID.

DEMOLITION NOTES

1. REMOVE ALL DELETERIOUS MATERIAL FOUND ON-SITE INCLUDING VEGETATION, SCRAP WOOD, TRASH, ETC. AND DISPOSE OF AT AN APPROVED OFF-SITE LOCATION.

2. 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 TO THE CONSTRUCTION AREA. AT A MINIMUM FENCING SHALL BE 6.0 FEET HIGH. COORDINATE SAFETY AND SECURITY MEASURES WITH ADJACENT WORK.

3. PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH COUNTY AND STATE AND LOCAL REQUIREMENTS. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL SIGNS.

4. ALL AREAS TO BE GRADED SHALL BE CLEARED OF SURFACE DELETERIOUS MATTER INCLUDING ANY DEBRIS, TREES AND ASSOCIATED STUMPS/ROOTS AND UNDERBRUSH.

POLLUTION PREVENTION NOTES

1. EQUIPMENT LUBRICATION AND FUELING OPERATIONS SHALL OCCUR AT APPROVED LOCATIONS.

2. PREVENT OILS AND FUELS FROM ENTERING THE STORM DRAINAGE SYSTEM WITH PROPER CONTAINMENT DEVICES.

3. ACCESS TO CONSTRUCTION IS VIA ADJACENT EXISTING PAVED STREETS. SWEEP DIRT FROM PAVING DAILY OR AS NEEDED. THE INTENT IS TO PREVENT DIRT AND DEBRIS FROM VEHICLES AND EQUIPMENT FROM BEING DEPOSITED ON CITY STREET PAVEMENT.

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 THE DIVISION OF EMERGENCY MANAGEMENT AT (800) 258-5990. SPILLS SHALL BE CLEANED UP IMMEDIATELY AND CONTAMINATED 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 ALL TIMES. ALL STORMWATER POLLUTION PREVENTION MEASURES SHALL BE COORDINATED WITH ENGINEER REPRESENTATIVE TO ENSURE COMPLIANCE WITH APPLICABLE STORMWATER PERMITS. CONTACT ANITA FICHTHORN 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 WILL BE COORDINATED WITH THE ENGINEER REPRESENTATIVE CONTACT ANITA FICHTHORN 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.

9. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A SAMPLE OF THE SITE LOG BOOK TO BE USED ON THE PROJECT FOR MAINTAINING EROSION CONTROL INSPECTION, OBSERVATION, CHECKLIST, AND CORRECTION REPORTS. UPON APPROVAL THE CONTRACTOR SHALL KEEP AND MAINTAIN THE SITE LOG BOOK ON-SITE DURING CONSTRUCTION.

10. CHECKLIST AND MAINTENANCE INFORMATION SHALL BE KEPT IN THE SITE LOG BOOK (MAINTAINED BY THE CESCL DESIGNATED BY THE CONTRACTOR) AND BE AVAILABLE FOR REVIEW BY THE ENGINEER AND/OR GOVERNING AGENCY.

11. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL RECENT INSPECTION, OBSERVATION, CHECKLIST, AND CORRECTION REPORTS TO THE ENGINEER.

STOCKPILE NOTES

1. STOCKPILES SHALL BE STABILIZED (WITH PLASTIC COVERING OR OTHER APPROVED DEVICE) DAILY BETWEEN NOVEMBER 1 AND MARCH 31.

2. IN ANY SEASON, SEDIMENT LEACHING FROM STOCK PILES MUST BE PREVENTED.

3. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET OR WHEN CONDITIONS EXIST THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING.

4. PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE APPROVED PLAN.

TOPSOIL STOCKPILE NOTES

1. SIDE SLOPES OF THE STOCKPILE SHALL NOT EXCEED 2H:1V

2. BETWEEN OCTOBER 01 AND APRIL 30:

   2.1. AN INTERCEPTOR DIKE WITH GRAVEL OUTLET AND SILT FENCE SHALL SURROUND ALL TOPSOIL.

   2.2. WITHIN 2 DAYS, COMPLETE EROSION CONTROL SEEDING OR COVERING STOCKPILES WITH CLEAR PLASTIC, OR OTHER MULCHING MATERIALS.

3. BETWEEN MAY 01 AND SEPTEMBER 30:

   3.1. AN INTERCEPTOR DIKE WITH GRAVEL OUTLET AND SILT FENCE SHALL SURROUND ALL TOPSOIL IF THE STOCKPILE WILL REMAIN IN PLACE FOR A LONGER PERIOD OF TIME THAN ACTIVE CONSTRUCTION GRADING.

   3.2. WITHIN 7 DAYS, COMPLETE EROSION CONTROL SEEDING, OR COVERING STOCKPILES WITH CLEAR PLASTIC, OR OTHER MULCHING MATERIALS.

4. WHEN NATIVE TOPSOIL IS TO BE STOCKPILED AND REUSED THE FOLLOWING SHOULD APPLY TO ENSURE THAT THE MYCORRHIZAL BACTERIAL, EARTHWORMS, AND OTHER BENEFICIAL ORGANISMS WILL NOT BE DESTROYED:

   4.1. RE-INSTALL TOPSOIL WITHIN 4-6 WEEKS

   4.2. DO NOT ALLOW THE SATURATION OF TOPSOIL WITH WATER

   4.3. DO NOT USE PLASTIC COVERING.

PLASTIC COVERING NOTES

1. PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MILS AND SHALL MEET THE REQUIREMENTS OF THE STATE STANDARD SPECIFICATIONS SECTION 9-14.5(3).

2. COVERING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10-FOOT GRID SPACING IN ALL DIRECTIONS. ALL SEAMS SHALL BE TAPED OR WEIGHTED DOWN FULL LENGTH AND THERE SHALL BE AT LEAST A 12-INCH OVERLAP OF ALL SEAMS.

3. CLEAR PLASTIC COVERING SHALL BE INSTALLED IMMEDIATELY ON AREAS SEEDED BETWEEN NOVEMBER 1 AND MARCH 31 AND REMAIN UNTIL VEGETATION IS FIRMLY ESTABLISHED.

4. WHEN THE COVERING IS USED ON UN-SEEDED SLOPES, IT SHALL BE KEPT IN PLACE UNTIL THE NEXT SEEDING PERIOD.

5. PLASTIC COVERING SHEETS SHALL BE BURIED TWO FEET AT THE TOP OF SLOPES IN ORDER TO PREVENT SURFACE WATER FLOW BENEATH SHEETS.

6. PROPER MAINTENANCE INCLUDES REGULAR CHECKS FOR RIPS AND DISLODGED ENDS.

CATCH BASIN PROTECTION NOTES

1. CATCH BASIN INSERTS SHALL BE PROVIDED IN THE CATCH BASINS NOTED ON THE PLANS.

2. AT ALL PROPOSED CATCH BASINS, CATCH BASIN PROTECTION SHALL BE INSTALLED IMMEDIATELY UPON CATCH BASIN INSTALLATION AND SHALL REMAIN UNTIL FINAL SITE STABILIZATION.

3. CATCH BASIN INSERT SHALL BE BOWHEAD STREAMGUARD CATCH BASIN INSERT #3003, ADVANCED ENVIRONMENTAL SOLUTIONS DRAINGUARD CATCH BASIN FILTER INSERT #11091U, OR APPROVED EQUAL.

4. CATCH BASIN INSERTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

5. CATCH BASIN INSERTS SHALL BE REMOVED FOLLOWING COMPLETION OF CONSTRUCTION AND STABILIZATION OF ALL CLEARED AREAS.

CONSTRUCTION ENTRANCE NOTES

1. MATERIAL SHALL BE 4-INCH TO 8-INCH QUARRY SPALLS AND MAY BE TOP-DRESSED WITH 1-INCH TO 3-INCH ROCK. (STATE STANDARD SPECIFICATIONS, SECTION 8-15.)

2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 50 FEET LONG WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA.

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 BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.

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 SPLICED 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, TIE 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. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

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 PROVISION 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 PIPE OR WEIR.

11. DO NOT DRIVE OVER OR FILL OVER SILT FENCES.

12. PLACE 1' OF 3/4" - 1-1/2" WASHED ROCK OR PEA-GRAVEL ON BOTH SIDES OF FENCE TO CREATE A BEVEL SHAPE.

13. FABRIC SHALL COVER BOTTOM OF 6"x6" TRENCH AND EXTEND BEYOND THE LIMITS OF THE GRAVEL IN ORDER TO MAINTAIN AN EXCESS OVERLAP OF 2" MINIMUM AS SHOWN IN TYPICAL CROSS-SECTION.

TEMPORARY DIKES AND SWALES NOTES

1. SEED AND MULCH SHALL BE APPLIED WITHIN FIVE DAYS OF DIKE CONSTRUCTION (SEE SEEDING NOTE).

2. THE UPSLOPE SIDE OF THE DIKE SHALL PROVIDE POSITIVE DRAINAGE TO THE DIKE OUTLET.

3. NO EROSION SHALL OCCUR AT THE DIKE OUTLET. PROVIDE ENERGY DISSIPATION MEASURES AS NECESSARY.

4. SEDIMENT LADEN RUNOFF MUST BE RELEASED THROUGH A SEDIMENT TRAPPING FACILITY SUCH AS A POND, TRAP OR SILT FENCE AS APPROPRIATE TO DRAINAGE AREA SIZE.

CONTRACTOR TESC AND SWPPP RESPONSIBILITIES

1. THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION STORMWATER PROVISIONS OF THE NPDES CONSTRUCTION STORMWATER PERMIT. UPON EXECUTION OF THIS CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STORMWATER ACTIVITIES ASSOCIATED WITH THIS PROJECT FOR THE DURATION OF THE CONTRACT. THE CONTRACTOR SHALL ALSO PROVIDE THE REQUIRED CERTIFIED PERSONNEL TO COMPLETE THE WORK.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED SOURCE CONTROL MEASURES, BEST MANAGEMENT PRACTICES (BMP'S), AND STORMWATER TREATMENT MEASURES SUCH THAT THE STORMWATER DISCHARGE FROM THE SITE COMPLIES WITH THE CONSTRUCTION STORMWATER PROVISIONS OF THE CONSTRUCTION STORMWATER NPDES PERMIT. THIS INCLUDES EXECUTION OF THE STORMWATER POLLUTION PREVENTION PLAN, SOURCE CONTROLS, BMP AND STORMWATER TREATMENT MEASURES, REQUIRED DEPARTMENT OF ECOLOGY INSPECTIONS, MONITORING, TESTING AND RECORD KEEPING, AND MAINTENANCE WORK AS REQUIRED TO ENSURE THAT ALL STORMWATER PROTECTION MEASURES REMAIN OPERATIONAL AND FUNCTIONAL.

SEEDING NOTES

1. SEED MIXTURES SHALL BE PER THE "SEED MIXTURE FOR EROSION CONTROL" TABLE BELOW, AND SHALL BE APPLIED AT THE RATE OF 120 LB. PER ACRE.

2. SEED BEDS PLANTED BETWEEN MAY 1 AND OCTOBER 31 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE.

3. FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, ARMORING OF THE SEED BED WILL BE NECESSARY (E.G. GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).

4. BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS, AND SEDIMENT BASINS.

5. THE SEED BED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING. PERFORM ALL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.

6. FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIERS RECOMMENDATIONS. AMOUNTS USED SHOULD BE MINIMIZED, ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.

7. SEED SHALL NOT BE USED IN AREAS SUBJECT TO WEAR BY CONSTRUCTION TRAFFIC.

8. APPLICABLE IN AREAS OF 10% OR LESS SLOPE FOR A MAXIMUM HORIZONTAL DISTANCE OF 100 FEET. IN STEEPER AREAS (>10% SLOPE), USE MULCH, NETTING, OR OTHER TREATMENTS SPECIFICALLY DESIGNED FOR STEEPER AND LONGER SLOPES.

SEED MIXTURE FOR EROSION CONTROL

NAME	PROPORTIONS BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
CHEWING OR ANNUAL BLUE GRASS (FESTUCA RUBRA VAR. COMMUTATA OR POA ANNA)	45%	98%	90%
PERENNIAL RYE (LOLIUM PERENNE)	50%	98%	90%
REDTOP (AGROSTIS ALBA) OR COLONIAL BENTGRASS (AGROSTIS TENUIS)	5%	92%	85%

MULCHING NOTES

1. MULCH MATERIALS USED SHALL BE STRAW OR WOOD CELLULOSE FIBERS, AND SHALL BE APPLIED PER THE SPECIFICATIONS.

2. MULCH SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GREATER THAN 2:1.

3. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDED BECAUSE OF THE SEASON.

4. ALL AREAS NEEDING MULCH SHALL BE COVERED BY NOVEMBER 1. THE CONTRACTOR SHALL REMOVE WOOD FIBER CELLULOSE UPON FINAL PROJECT COMPLETION (IF USED) UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

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RICHARD C. HAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION

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PRINTED BY: srebrob Jul 17, 2024

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TESC AND DEMOLITION NOTES 1

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST | SECTION: 36
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SH # 23 OF 72

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BINDING EDGE

SEASONAL LIMITATIONS ON CONSTRUCTION ACTIVITIES

THE FOLLOWING SHALL BE ADHERED TO ON ALL CONSTRUCTION SITES WITH EROSIVE SOILS AND/OR A GRADIENT OF GREATER THAN TWO PERCENT FOR LIMITING EXPOSED SOILS TO EROSIVE PROCESSES.

OCTOBER 1ST TO APRIL 30TH (WET SEASON)

ON SITES WHERE UNINTERRUPTED CONSTRUCTION ACTIVITY IS IN PROGRESS, THE CLEARING OF LAND, INCLUDING THE REMOVAL OF EXISTING VEGETATION OR OTHER GROUND COVER, SHALL BE LIMITED TO ONLY AS MUCH LAND AREA AS CAN BE COVERED OR STABILIZED WITHIN 24 HOURS IN THE EVENT A MAJOR STORM IS PREDICTED AND/OR EROSION/SEDIMENT TRANSPORT OFFSITE IS OBSERVED.

ADDITIONALLY, ALL CLEARED OR DISTURBED AREAS WILL RECEIVE APPROPRIATE PROTECTIVE COVER OR BE OTHERWISE STABILIZED (SUCH AS MULCHING, NETTING, PLASTIC SHEETING, EROSION BLANKETS, FREE DRAINING MATERIAL, ETC....) WITHIN FIVE DAYS AFTER HAVING BEEN CLEARED OR OTHERWISE DISTURBED IF NOT BEING ACTIVELY WORKED. FILTER FABRIC FENCING, SEDIMENT TRAPS, SEDIMENT PONDS, ETC..., WILL NOT BE VIEWED AS ADEQUATE COVER IN AND OF THEMSELVES. IN THE EVENT THAT ANY LAND AREA NOT BEING ACTIVELY WORKED REMAINS UNPROTECTED OR HAS NOT BEEN APPROPRIATELY STABILIZED FIVE DAYS AFTER HAVING BEEN CLEARED, ALL CONSTRUCTION ACTIVITY ON THE SITE, EXCEPT FOR APPROVED EROSION AND SEDIMENTATION CONTROL ACTIVITY, SHALL IMMEDIATELY CEASE UNTIL SUCH A TIME AS SAID LAND HAS BEEN APPROPRIATELY PROTECTED OR STABILIZED.

THE CONTRACTOR SHALL AT ALL TIMES HAVE AVAILABLE FOR THE PROJECT SUFFICIENT QUANTITIES OF PROTECTIVE COVERING MATERIALS TO IMMEDIATELY STABILIZE ALL DISTURBED AREAS IN CASE THE ENGINEER OR CITY DIRECTS THEM TO COVER DUE TO OBSERVED MIGRATION OF SOILS OR INCLEMENT WEATHER.

MAY 1ST TO SEPTEMBER 30TH (DRY SEASON)

THE CLEARING OF LAND, INCLUDING THE REMOVAL OF EXISTING VEGETATION OR OTHER GROUND COVER, MUST BE LIMITED TO ONLY AS MUCH LAND AREA AS CAN RECEIVE APPROPRIATE PROTECTIVE COVER OR BE OTHERWISE STABILIZED AFTER HAVING BEEN CLEARED OR OTHERWISE DISTURBED BY NO LATER THAN SEPTEMBER 30TH OF A GIVEN YEAR. UNLESS IMMEDIATE STABILIZATION IS SPECIFIED IN THE EROSION AND SEDIMENTATION CONTROL PLAN, ALL AREAS CLEARED OR OTHERWISE DISTURBED MUST BE APPROPRIATELY STABILIZED THROUGH THE USE OF MULCHING, NETTING, PLASTIC SHEETING, EROSION BLANKETS, FREE DRAINING MATERIALS, ETC..., BY SEPTEMBER 30TH.

UNLESS OTHERWISE APPROVED BY THE COUNTY, SEEDING, FERTILIZING AND MULCHING OR CLEARED OR OTHERWISE DISTURBED AREAS SHALL BE PERFORMED DURING THE FOLLOWING PERIODS: MARCH 1ST THROUGH MAY 15TH AND AUGUST 15TH THROUGH OCTOBER 1ST. SEEDING AFTER OCTOBER 1ST WILL BE DONE WHEN PHYSICAL COMPLETION OF THE PROJECT IS IMMINENT AND THE ENVIRONMENTAL CONDITIONS ARE CONDUCIVE TO SATISFACTORY GROWTH. IN THE EVENT THAT PROJECT STABILIZATION IS NOT POSSIBLE, AN ALTERNATIVE METHOD OF GROUND COVER (SUCH AS MULCHING, NETTING, PLASTIC SHEETING, EROSION BLANKETS, ETC....) MUST BE INSTALLED BY NO LATER THAN SEPTEMBER 30TH

IN THE EVENT THAT CONSTRUCTION ACTIVITIES OR OTHER SITE DEVELOPMENT ACTIVITIES ARE DISCONTINUED FOR FOUR CONSECUTIVE DAYS OR MORE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES IMMEDIATELY AFTER STORM EVENTS AND AT LEAST ONCE EVERY WEEK. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENTATION CONTROL FACILITIES.

THE CONTRACTOR SHALL PROVIDE MATERIALS ONSITE READILY AVAILABLE TO IMMEDIATELY STABILIZE DENUDED AREAS DURING PERIODS OF INCLEMENT WEATHER WHICH RESULT IN EROSION AND SEDIMENT TRANSPORT OFFSITE.

THE CONTRACTOR SHALL ENSURE THE PROPER CONTINUED FUNCTIONING OF THE ESC FACILITIES BY PROMPT CLEANING AND MAINTENANCE AFTER EACH EROSION AND SEDIMENT PRODUCING RAINFALL EVENT.

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RICHARD C. HAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY — NOT FOR CONSTRUCTION

RCH 07/19/24
CHECKED BY DATE

BAS 07/19/24
PROJ. ENGR DATE

DIRECTOR ENG. DATE

PRINTED BY: srebrob Jul 17, 2024
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TACOMA, WA 98401-1837

APPROVED:

6698

D1.10

SH # 24 OF 72

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TESC AND DEMOLITION NOTES 2

CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE: 30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

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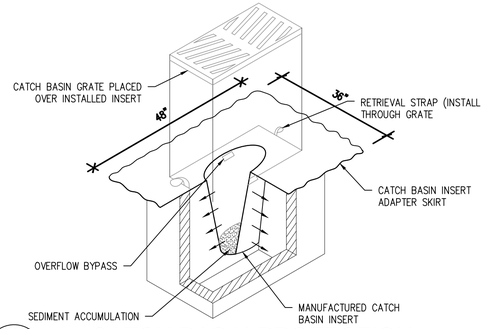
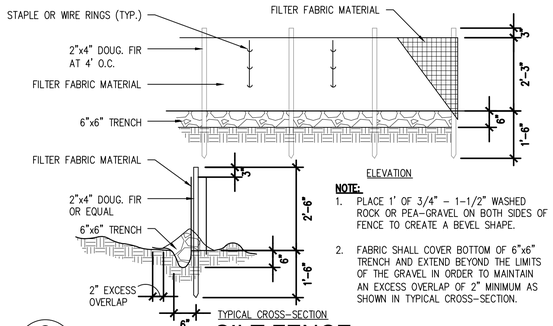


1 CATCH BASIN PROTECTION
D1.1-8

SCALE: NTS

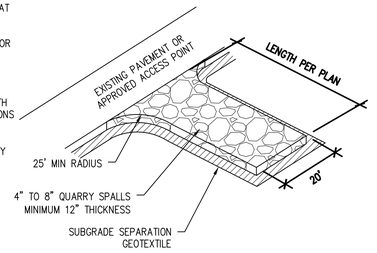


NOTE:
1. PLACE 1' OF 3/4" – 1-1/2" WASHED ROCK OR PEA-GRAVEL ON BOTH SIDES OF FENCE TO CREATE A BEVEL SHAPE.
2. FABRIC SHALL COVER BOTTOM OF 6"x6" TRENCH AND EXTEND BEYOND THE LIMITS OF THE GRAVEL IN ORDER TO MAINTAIN AN EXCESS OVERLAP OF 2" MINIMUM AS SHOWN IN TYPICAL CROSS-SECTION.

2 SILT FENCE
D1.1-8

SCALE: NTS

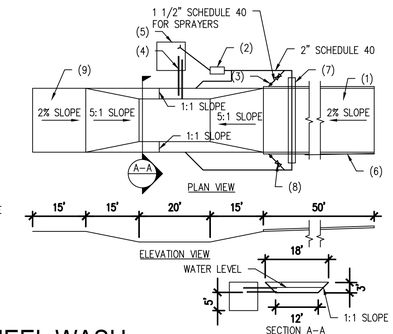
NOTES:
1. DRIVEWAY SHALL MEET REQUIREMENTS OF THE CITY OF TACOMA.
2. IT IS RECOMMENDED THAT THE ENTRANCE IS CROWNED SO THAT RUNOFF DRAINS OFF THE PAD.
3. RECYCLED CONCRETE CEMENT OR ASPHALT RUBBLE CANNOT BE USED FOR QUARRY SPALLS.
4. NON-WOVEN SEPARATION GEOTEXTILE SHALL COMPLY WITH WSDOT STANDARD SPECIFICATIONS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



3 TESC CONSTRUCTION ENTRANCE
D1.1-8

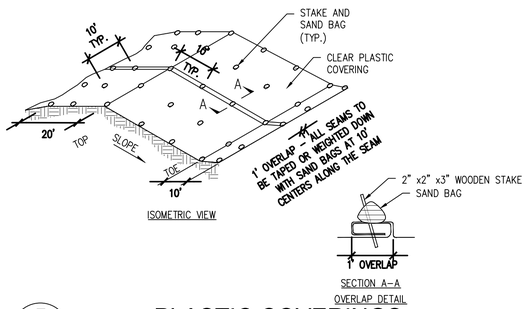
SCALE: NTS

NOTES:
1. EXISTING ASPHALT SURFACE SHALL BE USED AS CONSTRUCTION ENTRANCE.
2. 3-INCH TRASH PUMP WITH FLOATS ON THE SUCTION HOSE.
3. MIDPOINT SPRAY NOZZLES, IF NEEDED.
4. 6-INCH SEWER PIPE WITH BUTTERFLY VALVES. BOTTOM ONE IS A DRAIN. LOCATE TOP PIPE'S INVERT 1 FOOT ABOVE BOTTOM OF WHEEL WASH.
5. 8 FOOT x 8 FOOT SUMP WITH 5 FEET OF CATCH.
6. SUMP TO BE PUMP WHEN FULL TO TEMPORARY SEDIMENT POND.
7. ASPHALT CURB ON THE LOW ROAD SIDE TO DIRECT WATER BACK TO POND.
8. 6-INCH SLEEVE UNDER ROAD.
9. BALL VALVES.
10. 15 FOOT ATB APRON TO PROTECT GROUND FROM SPLASHING WATER.



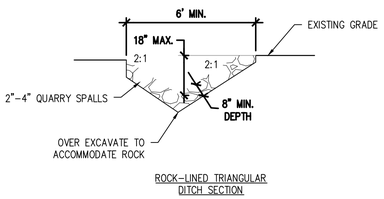
4 WHEEL WASH
D1.1-8

SCALE: NTS



5 PLASTIC COVERINGS
D1.1-8

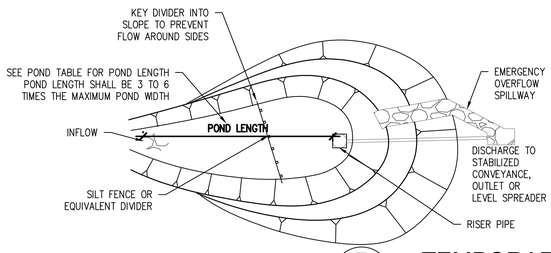
SCALE: NTS



6 TEMPORARY CONVEYANCE DITCH
D1.1-8

SCALE: NTS

NOTE
POND MAY BE FORMED BY BERM OR BY PARTIAL OR COMPLETE EXCAVATION

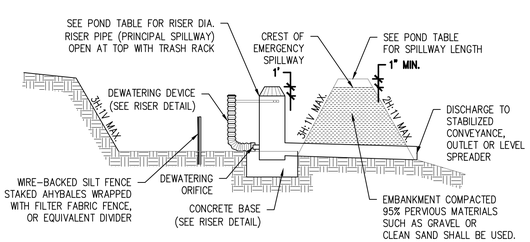


7 TEMPORARY SEDIMENT POND
D1.1-8

SCALE: NTS

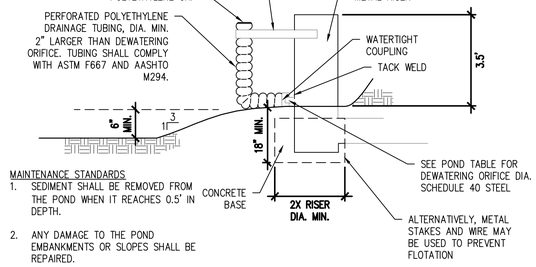
NORTH POND			
LENGTH	195'	OVERFLOW HEIGHT	0.5'
WIDTH	65'	ORIFICE DIA.	5"
SIDE SLOPES	3:1	SPILLWAY WIDTH	13'
RISER HIEGHT	3.5'	POND BOTTOM ELEV.	13.50

SOUTH POND			
LENGTH	165'	OVERFLOW HEIGHT	0.5'
WIDTH	55'	ORIFICE DIA.	4"
SIDE SLOPES	3:1	SPILLWAY WIDTH	8.50'
RISER HIEGHT	3.5'	POND BOTTOM ELEV.	14.00



8 SEDIMENT POND CROSS SECTION
D1.1-8

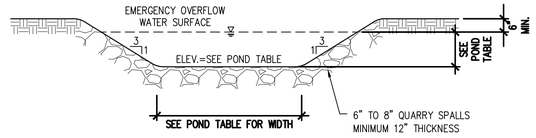
SCALE: NTS



MAINTENANCE STANDARDS
1. SEDIMENT SHALL BE REMOVED FROM THE POND WHEN IT REACHES 0.5' IN DEPTH.
2. ANY DAMAGE TO THE POND EMBANKMENTS OR SLOPES SHALL BE REPAIRED.

9 RISER OUTLET
D1.1-8

SCALE: N.T.S



10 EMERGENCY OVERFLOW SPILLWAY
D1.1-8

SCALE: NTS

BINDING EDGE

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TESC AND DEMOLITION DETIALS

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

SECTION: 36

6698
D1.11
SH # 25 OF 72

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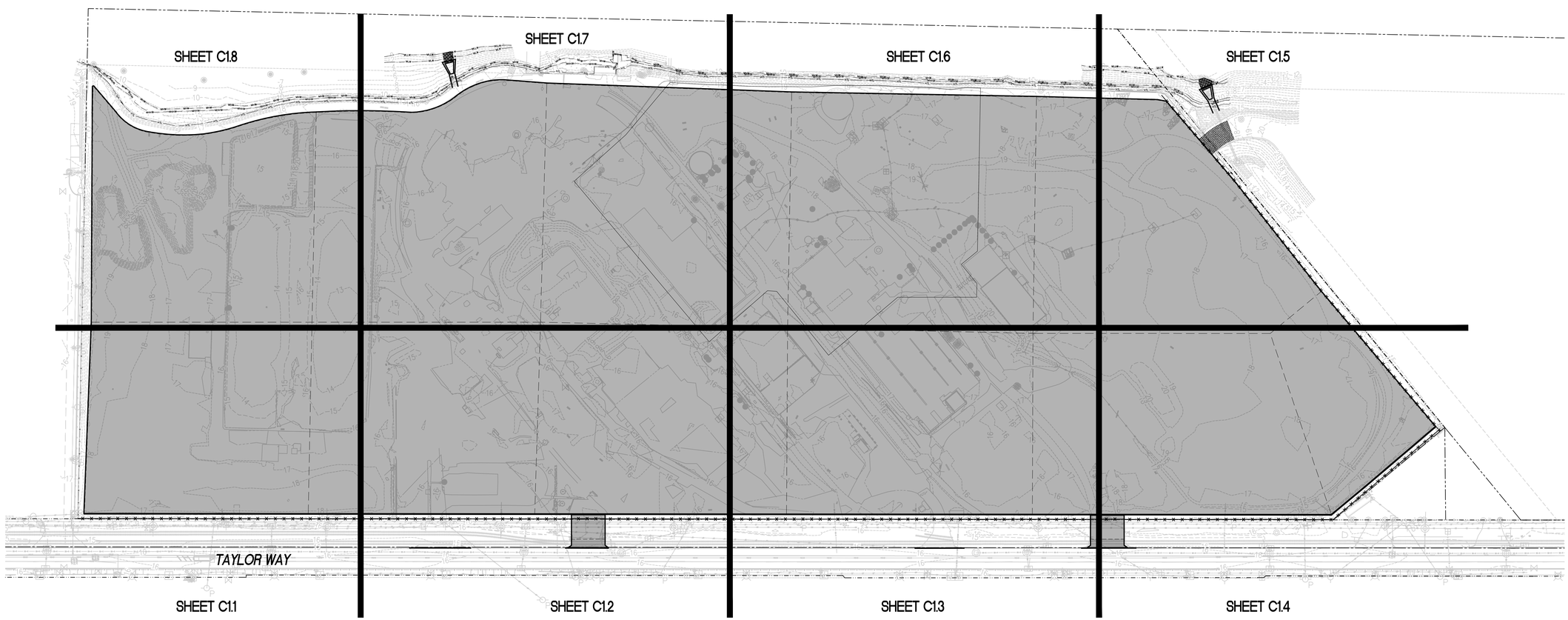
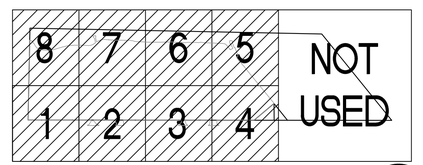


OVERALL SITE PLAN
SCALE: 1" = 100'

HORIZONTAL SCALE: 1"=100'
100 0 100 200

NORTH



KEY PLAN
SCALE: NTS

NORTH

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ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

OVERALL SITE PLAN

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698
C1.0
SH # 27 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

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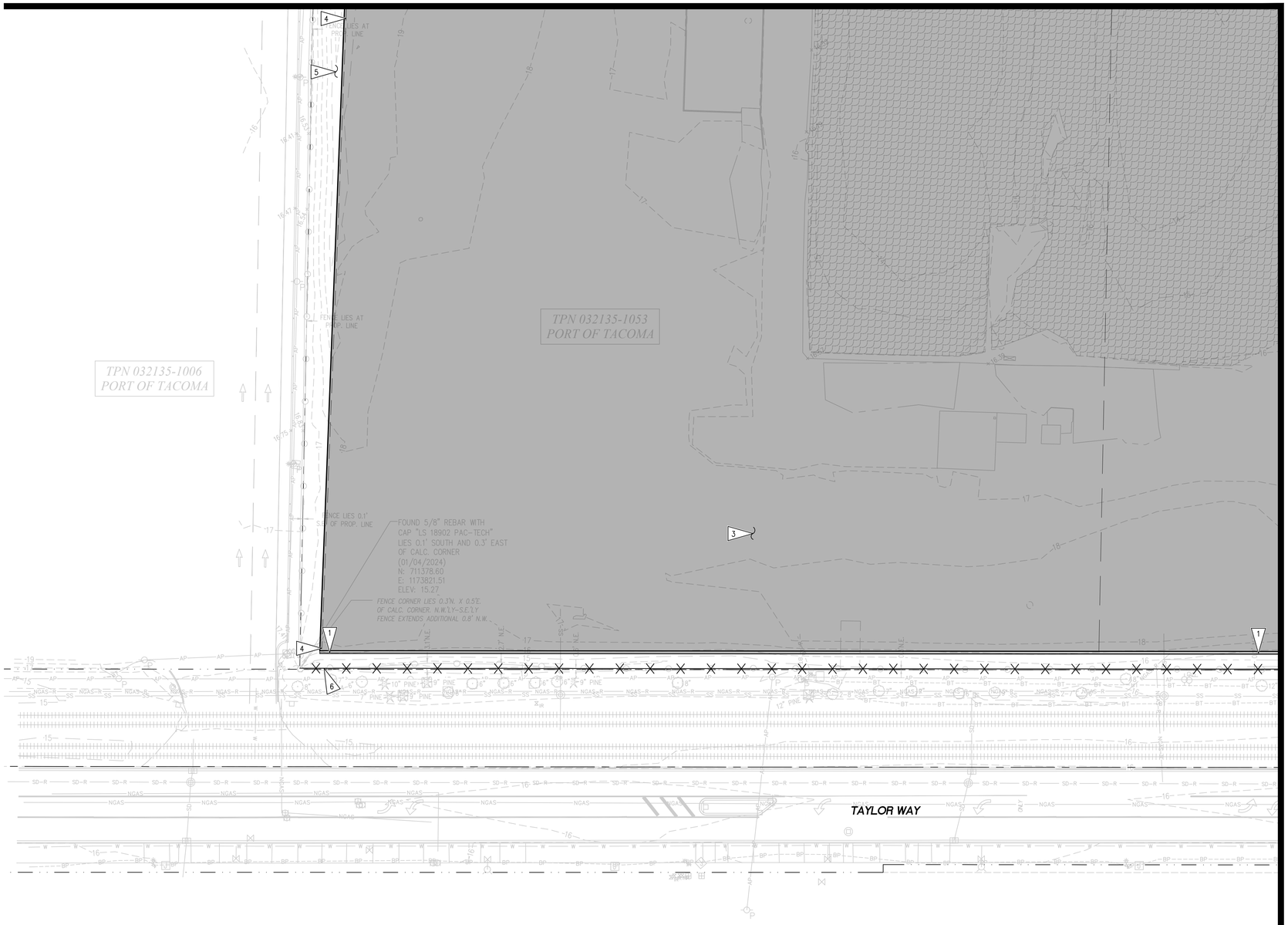
BINDING EDGE

MATCHLINE SEE SHEET C1.8



MATCHLINE SEE SHEET C1.2

LEGEND

PROPOSED FEATURES-

- HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- QUARRY SPALLS
- GRAVEL SURFACING
- CONCRETE CURB & GUTTER
- ASPHALT WEDGE CURB

GENERAL NOTES

1. SEE SHEET G1.X FOR PROJECT NOTES.
2. SEE SHEETS C1.9 FOR SITE PLAN NOTES AND DETAILS.
3. ALL DIMENSIONS ARE TO THE FLOWLINE OF CONCRETE CURB & GUTTER OR ASPHALT WEDGE CURB.

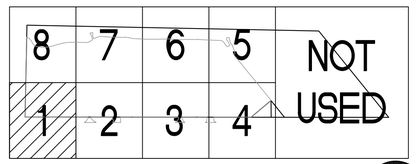
KEY NOTES

1. INSTALL CEMENT CONCRETE CURB AND GUTTER PER 2/C1.9
2. DEPRESS/LOWER CURB AND GUTTER TO 3/4" ACROSS DRIVEWAY OPENING. TRANSITION TO FULL HEIGHT WITHIN 6 FEET
3. INSTALL HOT MIX ASPHALT (HMA) PAVEMENT SECTION PER DETAIL 2/C1.9
4. INSTALL HMA WEDGE CURB PER DETAIL 3/C1.9
5. RESTORE DISTURBED PERVIOUS AREAS PER SOIL AMENDMENT NOTES ON C1.9
6. INSTALL PERIMETER FENCE PER DETAIL XX/C1.10
7. INSTALL SLIDING GATE PER DETAIL XX/C1.10
8. REFER TO SERIES C2.X FOR QUARRY SPALLS PLAN AND DETAILS
9. REFER TO SERIES C2.X FOR PIPE OUTFALL PLAN AND DETAILS
10. BARRIER WALL, DESIGNED BY OTHERS
11. INSTALL GRAVEL ACCESS CONNECTION PER DETAIL 4/C1.9

SITE PLAN - AREA 1
SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH



KEY PLAN
SCALE: NTS

NORTH

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
SITE PLAN - AREA 1

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

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C1.1
SH # 27 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

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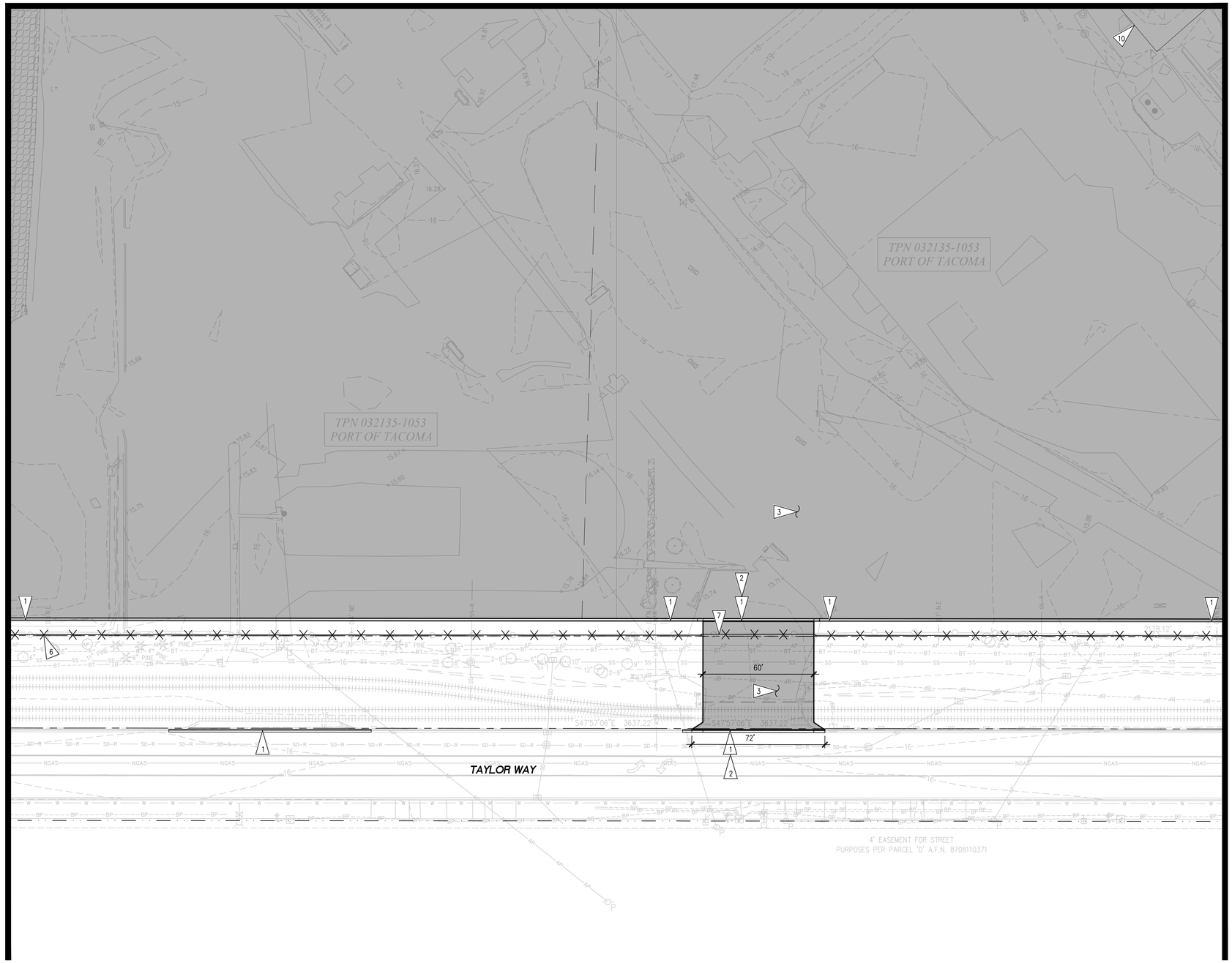
BINDING EDGE

MATCHLINE SEE SHEET C1.1

MATCHLINE SEE SHEET C1.7



MATCHLINE SEE SHEET C1.3

LEGEND

PROPOSED FEATURES-

- HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- QUARRY SPALLS
- GRAVEL SURFACING
- CONCRETE CURB & GUTTER
- ASPHALT WEDGE CURB

GENERAL NOTES

1. SEE SHEET G1.X FOR PROJECT NOTES.
2. SEE SHEETS C1.9 FOR SITE PLAN NOTES AND DETAILS.
3. ALL DIMENSIONS ARE TO THE FLOWLINE OF CONCRETE CURB & GUTTER OR ASPHALT WEDGE CURB.

KEY NOTES

1. INSTALL CEMENT CONCRETE CURB AND GUTTER PER 2/C1.9
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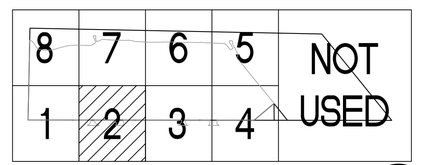
7. INSTALL SLIDING GATE PER DETAIL XX/C1.10
8. REFER TO SERIES C2.X FOR QUARRY SPALLS PLAN AND DETAILS
9. REFER TO SERIES C2.X FOR PIPE OUTFALL PLAN AND DETAILS
10. BARRIER WALL, DESIGNED BY OTHERS
17. INSTALL GRAVEL ACCESS CONNECTION PER DETAIL 4/C1.9

SITE PLAN - AREA 2
SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH



KEY PLAN
SCALE: NTS

NORTH

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STATE OF WASHINGTON
21598
REGISTERED PROFESSIONAL ENGINEER

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ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

SITE PLAN - AREA 2

CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE: 30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

6698
C1.2
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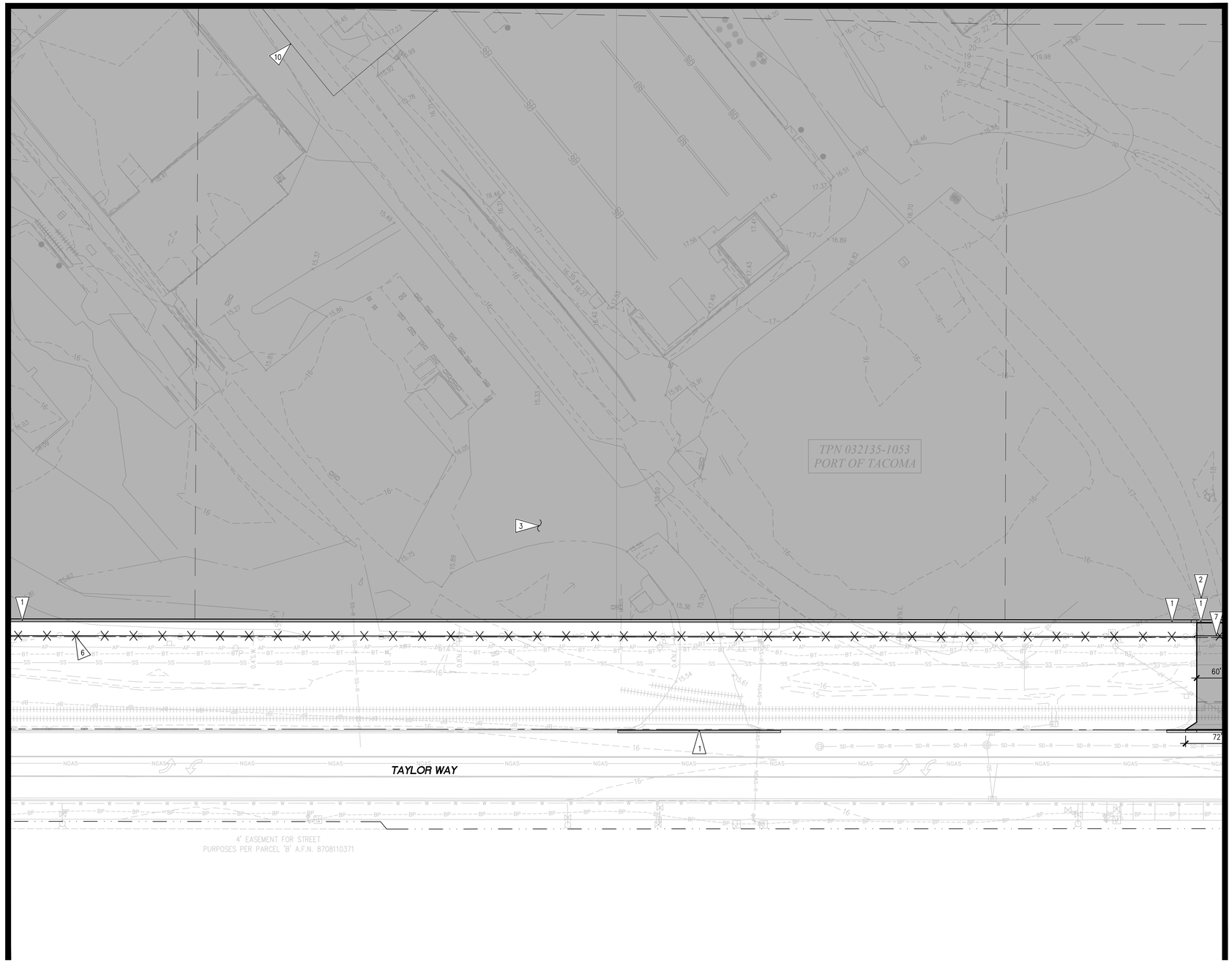
MATCHLINE SEE SHEET C1.6



MATCHLINE SEE SHEET C1.4

LEGEND

PROPOSED FEATURES-

- HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- QUARRY SPALLS
- GRAVEL SURFACING
- CONCRETE CURB & GUTTER
- ASPHALT WEDGE CURB

GENERAL NOTES

1. SEE SHEET G1.X FOR PROJECT NOTES.
2. SEE SHEETS C1.9 FOR SITE PLAN NOTES AND DETAILS.
3. ALL DIMENSIONS ARE TO THE FLOWLINE OF CONCRETE CURB & GUTTER OR ASPHALT WEDGE CURB.

KEY NOTES

1. INSTALL CEMENT CONCRETE CURB AND GUTTER PER 2/C1.9
2. DEPRESS/LOWER CURB AND GUTTER TO 3/4" ACROSS DRIVEWAY OPENING. TRANSITION TO FULL HEIGHT WITHIN 6 FEET
3. INSTALL HOT MIX ASPHALT (HMA) PAVEMENT SECTION PER DETAIL 2/C1.9
4. INSTALL HMA WEDGE CURB PER DETAIL 3/C1.9
5. RESTORE DISTURBED PERVIOUS AREAS PER SOIL AMENDMENT NOTES ON C1.9
6. INSTALL PERIMETER FENCE PER DETAIL XX/C1.10
7. INSTALL SLIDING GATE PER DETAIL XX/C1.10
8. REFER TO SERIES C2.X FOR QUARRY SPALLS PLAN AND DETAILS
9. REFER TO SERIES C2.X FOR PIPE OUTFALL PLAN AND DETAILS
10. BARRIER WALL, DESIGNED BY OTHERS
11. INSTALL GRAVEL ACCESS CONNECTION PER DETAIL 4/C1.9

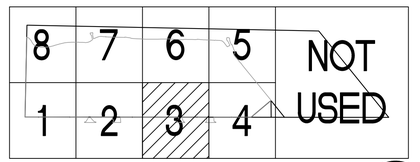
SITE PLAN - AREA 3

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH



KEY PLAN

SCALE: NTS

NORTH

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
SITE PLAN - AREA 3

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST | SECTION: 36
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

PRINTED BY: srebrob Jul 17, 2024
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6698
C1.3
SH # 29 OF 72

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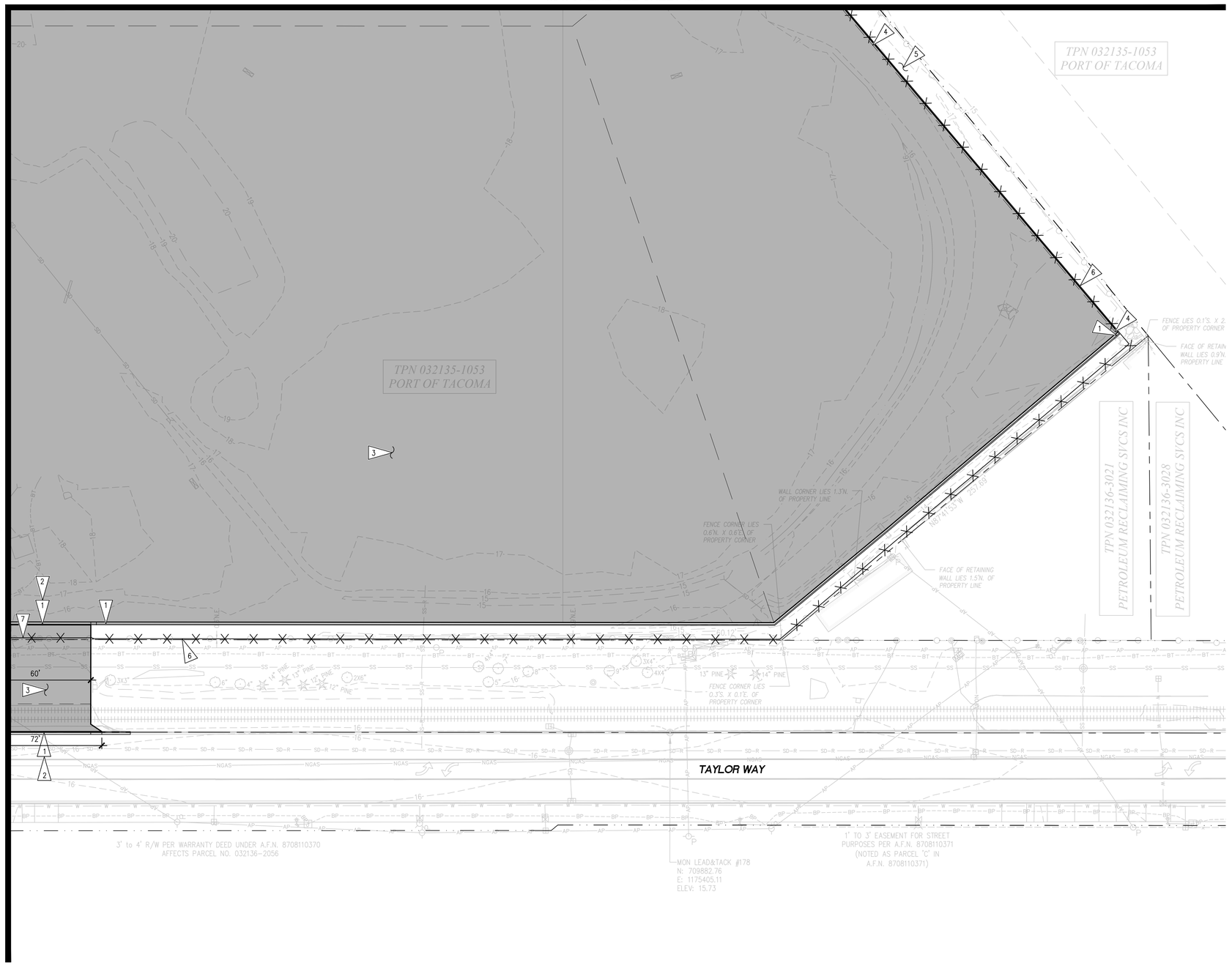
BINDING EDGE

MATCHLINE SEE SHEET C1.3

MATCHLINE SEE SHEET C1.5



SITE PLAN - AREA 4

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- QUARRY SPALLS
- GRAVEL SURFACING
- CONCRETE CURB & GUTTER
- ASPHALT WEDGE CURB

GENERAL NOTES

1. SEE SHEET G1.X FOR PROJECT NOTES.
2. SEE SHEETS C1.9 FOR SITE PLAN NOTES AND DETAILS.
3. ALL DIMENSIONS ARE TO THE FLOWLINE OF CONCRETE CURB & GUTTER OR ASPHALT WEDGE CURB.

KEY NOTES

1. INSTALL CEMENT CONCRETE CURB AND GUTTER PER 2/C1.9
2. DEPRESS/LOWER CURB AND GUTTER TO 3/4" ACROSS DRIVEWAY OPENING. TRANSITION TO FULL HEIGHT WITHIN 6 FEET
3. INSTALL HOT MIX ASPHALT (HMA) PAVEMENT SECTION PER DETAIL 2/C1.9
4. INSTALL HMA WEDGE CURB PER DETAIL 3/C1.9
5. RESTORE DISTURBED PERVIOUS AREAS PER SOIL AMENDMENT NOTES ON C1.9
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7. INSTALL SLIDING GATE PER DETAIL XX/C1.10
8. REFER TO SERIES C2.X FOR QUARRY SPALLS PLAN AND DETAILS
9. REFER TO SERIES C2.X FOR PIPE OUTFALL PLAN AND DETAILS
10. BARRIER WALL, DESIGNED BY OTHERS
11. INSTALL GRAVEL ACCESS CONNECTION PER DETAIL 4/C1.9

8	7	6	5	NOT USED
1	2	3	4	

KEY PLAN

SCALE: NTS

NORTH

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
SITE PLAN - AREA 4

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TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	DRAWING SCALE: AS NOTED	SH # 30	OF 72
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178				
PARCEL: 0321351053					

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C1.4

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CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

PORT OF TACOMA FILE: O:\20300\20347\Drawings\101585-C1.X

BINDING EDGE

SITE PLAN - AREA 5
SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH

LEGEND
PROPOSED FEATURES-

- HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- QUARRY SPALLS
- GRAVEL SURFACING
- CONCRETE CURB & GUTTER
- ASPHALT WEDGE CURB

GENERAL NOTES
1. SEE SHEET G1.X FOR PROJECT NOTES.
2. SEE SHEETS C1.9 FOR SITE PLAN NOTES AND DETAILS.
3. ALL DIMENSIONS ARE TO THE FLOWLINE OF CONCRETE CURB & GUTTER OR ASPHALT WEDGE CURB.

KEY NOTES
1. INSTALL CEMENT CONCRETE CURB AND GUTTER PER 2/C1.9
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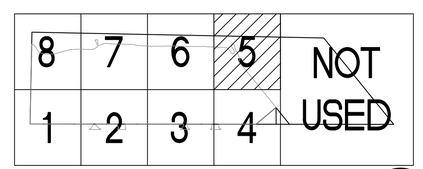
11. INSTALL GRAVEL ACCESS CONNECTION PER DETAIL 4/C1.9



KEY PLAN
SCALE: NTS

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
SITE PLAN - AREA 5

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

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BINDING EDGE

SITE PLAN - AREA 6
SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH

LEGEND
PROPOSED FEATURES-

- HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- QUARRY SPALLS
- GRAVEL SURFACING
- CONCRETE CURB & GUTTER
- ASPHALT WEDGE CURB

GENERAL NOTES
1. SEE SHEET G1.X FOR PROJECT NOTES.
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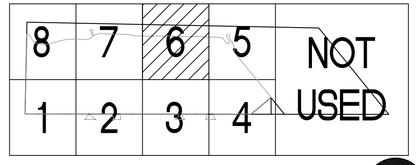
11. INSTALL GRAVEL ACCESS CONNECTION PER DETAIL 4/C1.9



KEY PLAN
SCALE: NTS

NORTH

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
SITE PLAN - AREA 6

CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE: 30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

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C1.6
SH # 32 OF 72

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BINDING EDGE

MATCHLINE SEE SHEET C1.8

MATCHLINE SEE SHEET C1.6

MATCHLINE SEE SHEET C1.2

SITE PLAN - AREA 7

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- QUARRY SPALLS
- GRAVEL SURFACING
- CONCRETE CURB & GUTTER
- ASPHALT WEDGE CURB

GENERAL NOTES

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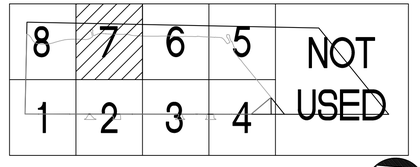

KEY PLAN

SCALE: NTS

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ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

SITE PLAN - AREA 7

PRINTED BY:	srebrob Jul 17, 2024		
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CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	SECTION: 36

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C1.7

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BINDING EDGE

SITE PLAN - AREA 8
SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- HOT MIX ASPHALT PAVEMENT (FULL DEPTH)
- QUARRY SPALLS
- GRAVEL SURFACING
- CONCRETE CURB & GUTTER
- ASPHALT WEDGE CURB

GENERAL NOTES

1. SEE SHEET G1.X FOR PROJECT NOTES.
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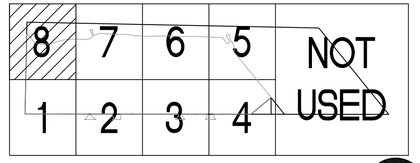

KEY PLAN
SCALE: NTS

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21578
REGISTERED PROFESSIONAL ENGINEER
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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
SITE PLAN - AREA 8

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

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C1.8
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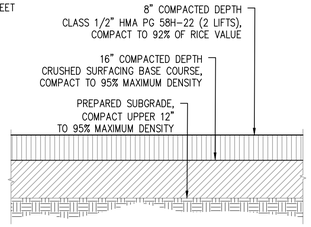
BINDING EDGE

NOTE:

SEE HMA NOTES, THIS SHEET

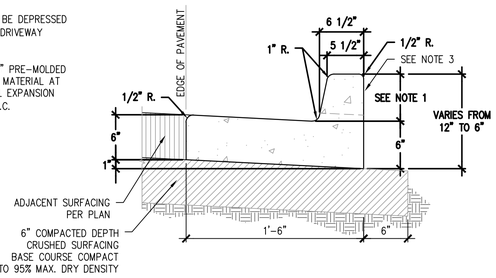


1 C1.1-8 HEAVY DUTY HOT MIX ASPHALT

SCALE: NTS

NOTE:

1. CURB SHALL BE DEPRESSED TO 3/4" AT DRIVEWAY APPROACH.
2. PROVIDE 3/8" PRE-MOLDED FILLER JOINT MATERIAL AT LONGITUDINAL EXPANSION JOINTS 15' O.C.

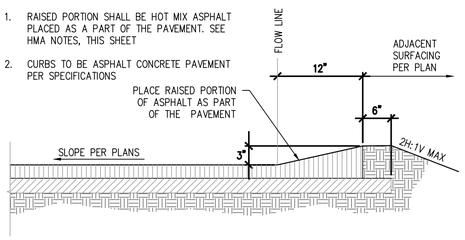


2 C1.1-4 CONCRETE CURB AND GUTTER

SCALE: NTS

NOTES:

1. RAISED PORTION SHALL BE HOT MIX ASPHALT PLACED AS A PART OF THE PAVEMENT. SEE HMA NOTES, THIS SHEET
2. CURBS TO BE ASPHALT CONCRETE PAVEMENT PER SPECIFICATIONS



3 C1.1-8 HMA (ASPHALT) WEDGE CURB

SCALE: NTS

NOTE:

SEE GRAVEL NOTES, THIS SHEET

4 C1.5 GRAVEL ACCESS

SCALE: NTS

HOT MIX ASPHALT NOTES (HMA)

1. HMA PAVEMENT SHALL COMPLY WITH WSDOT STANDARD SPECIFICATIONS SECTION 5-04
2. VEHICULAR PAVEMENT AGGREGATE SHALL COMPLY WITH CLASS 1/2" GRADATION PER WSDOT STANDARD SPECIFICATION SECTION 9-03.8
3. BINDER SHALL COMPLY WITH PERFORMANCE GRADE ASPHALT BINDER PG 658H-22 PER WSDOT STANDARD SPECIFICATION SECTION 9-02.1(4)
4. HMA PAVEMENT SHALL BE COMPACTED TO 92% RICE VALUE.

SOIL AMENDMENT NOTES

1. ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.
2. SUBSOIL SHOULD BE SCARIFIED (LOOSENED) 4 INCHES BELOW AMENDED LAYER, TO PRODUCE 12-INCH DEPTH OF UN-COMPACTED SOIL, EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER. SEE NOTE BELOW REGARDING PLANTING STEPS FOR STREET TREES.
3. COMPOST SHALL BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL, OR PLACE 8 INCHES OF COMPOST-AMENDED SOIL, PER SOIL SPECIFICATION.
4. SETBACKS TO PREVENT UNEVEN SETTLING, DO NOT COMPOST-AMEND SOILS WITHIN 3 FEET OF UTILITY INFRASTRUCTURES (POLES, VAULTS, METERS ETC.). WITHIN ONE FOOT OF PAVEMENT EDGES, CURBS AND SIDEWALKS SOIL SHOULD BE COMPACTED TO APPROXIMATELY 95% PROCTOR TO ENSURE A FIRM SURFACE.
5. WHERE EXISTING SOIL CONDITIONS DO NOT ALLOW FOR AMENDMENT (SUCH AS SOLID ROCK OR VERY ROCKY) INSTALL 8" MIN. DEPTH IMPORT TOPSOIL.

GRAVEL NOTES

1. CRUSHED SURFACING BASE COURSE SHALL COMPLY WITH WSDOT STANDARD SPECIFICATION SECTION 9-03.9(3).

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C1.9

SH # 35 OF 72

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

SITE PLAN NOTES AND DETAILS

CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE: 30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

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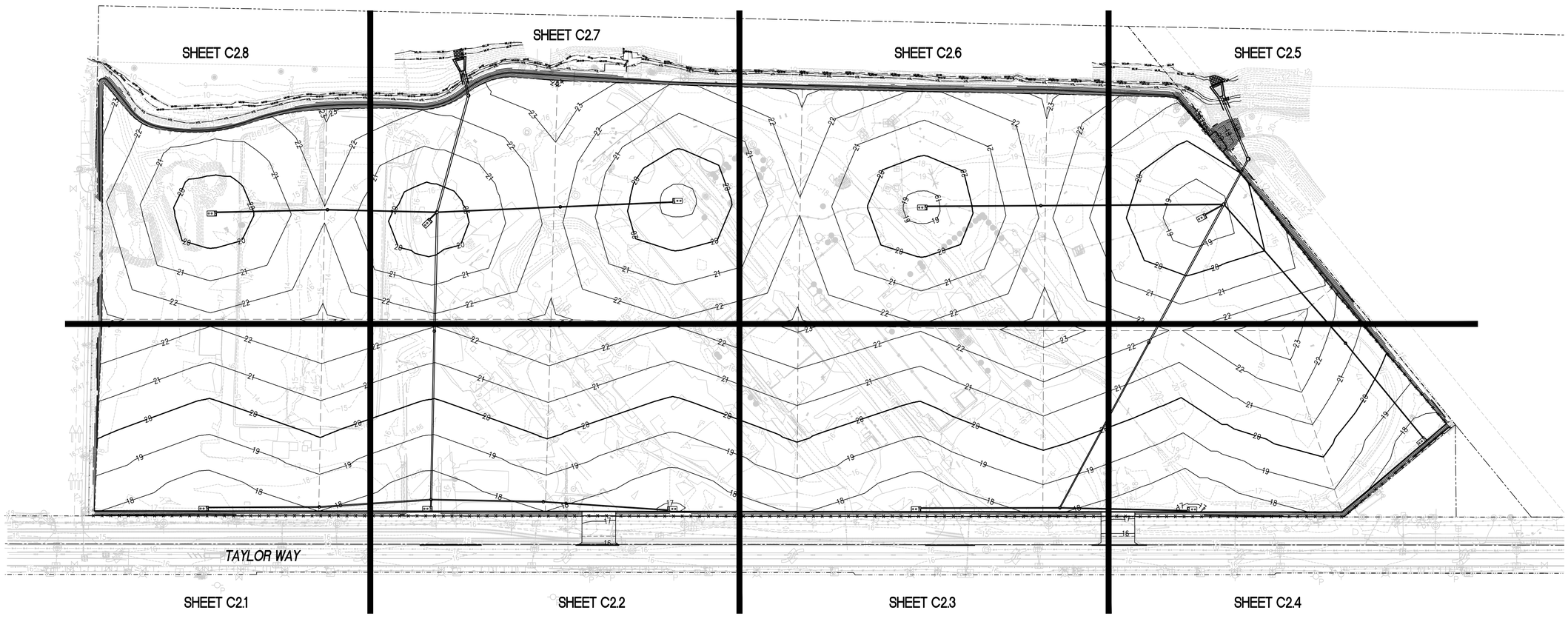
PORT OF TACOMA FILE: O:\20300\20347\Drawings\101585-C1.9

BINDING EDGE



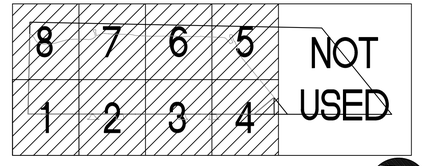
OVERALL GRADING AND DRAINAGE PLAN

SCALE: 1" = 100'

HORIZONTAL SCALE: 1"=100'

100 0 100 200

NORTH



KEY PLAN

SCALE: NTS

NORTH

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www.sittsandhill.com

MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HANDY — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY

APPROVED:

RCH	07/19/24	DIRECTOR ENG.	DATE
CHECKED BY	DATE		
BAS	07/19/24	PRINTED BY:	srebrob Jul 17, 2024
PROJ. ENGR	DATE	PORT ADDRESS:	ONE SITCUM PLAZA
			TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

OVERALL GRADING AND DRAINAGE PLAN

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698

C2.0

SH # 37 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

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PORT OF TACOMA FILE: O:\20300\20347\Drawings\101585-C2.X

BINDING EDGE

MATCHLINE SEE SHEET C2.8

MATCHLINE SEE SHEET C2.2

LEGEND

PROPOSED FEATURES-

- STORM DRAIN PIPE
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
- 20 CONTOUR MAJOR
- 19 CONTOUR MINOR
- RIDGE LINE
- HTL HIGH TIDE LINE
- MHHW MEAN HIGHER HIGH WATER
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- MLLW MEAN LOWER LOW WATER
- -1.50% SURFACE FLOW DIRECTION
- +17.13 SPOT ELEVATION

GENERAL NOTES

1. THE BURIED UTILITIES ON THIS PROJECT ARE SHOWN IN THEIR APPROXIMATE LOCATION WHERE KNOWN BASED ON FIELD SURVEY PERFORMED BY SITTS & HILL. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEIR LOCATION MARKED ON THE GROUND PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL PROTECT, OR IMMEDIATELY REPAIR, ANY DAMAGED UTILITY "DISCOVERED" ON THIS PROJECT WITHOUT ADDITIONAL COSTS.
2. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITTS & HILL ENGINEERS, INC. SEE SHEET SV1.0 FOR HORIZONTAL AND VERTICAL DATUM.
3. SEE SHEETS C2.9–C2.13 FOR STORM DRAINAGE AND GRADING DETAILS AND NOTES.
4. ALL CATCH BASIN COVERS/LIDS TO BE BOLT-DOWN. THE CONTRACTOR SHALL SET RINGS AS NECESSARY TO MATCH CROSS SLOPE OF THE FINISHED GRADE.
5. CONTRACTOR AND/OR SURVEYOR SHALL CALCULATE PIPE SLOPES BASED ON THE INVERT ELEVATIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FIELD STAKING AND CONSTRUCTION.
6. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING ALL STORM SYSTEMS (EXISTING AND PROPOSED) AND TESC FACILITIES THROUGH THE CONSTRUCTION AND PROJECT COMPLETION.
7. REFER TO STORM DRAINAGE SYSTEM NOTES ON SHEET C2.9 FOR THE SPECIFICATIONS OF THE STORM SYSTEM ELEMENTS.

KEY NOTES

1. INSTALL STORM TREATMENT VAULT PER DETAILS ON SHEETS C2.10 AND C2.11. PROVIDE STRUCTURE SUPPORT PER DETAIL 2/C2.9.
2. INSTALL STORM DRAINAGE PIPE. PIPE SIZE, MATERIAL AND SLOPE PER CALLOUT. REFER TO STORM DRAINAGE SYSTEM NOTES ON C2.9 FOR SPECIFICATIONS. PIPE BEDDING PER DETAIL 1/C2.9.
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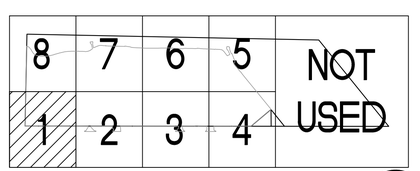
4. INSTALL OUTFALL PER SECTIONS ON SHEET C2.12 AND DETAILS ON SHEET C2.13
5. CUT 32" ø HOLE IN EXISTING STEEL SHEET PILE WALL. PROVIDE 48" SQUARE, 12" THICK CONCRETE COLLAR TO SEAL PIPE AND WALL.

GRADING AND DRAINAGE PLAN - AREA 1
SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH



KEY PLAN
SCALE: NTS

NORTH

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WWW.SITTSHILL.COM

MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

APPROVED:		RCH	07/19/24
		CHECKED BY	DATE
		BAS	07/19/24
	DIRECTOR ENG. DATE	PROJ. ENGR	DATE

PRINTED BY: srebrob Jul 17, 2024
PORT ADDRESS:ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
GRADING AND DRAINAGE PLAN - AREA 1

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST | SECTION: 36
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

6698
C2.1
SH # 37 OF 72

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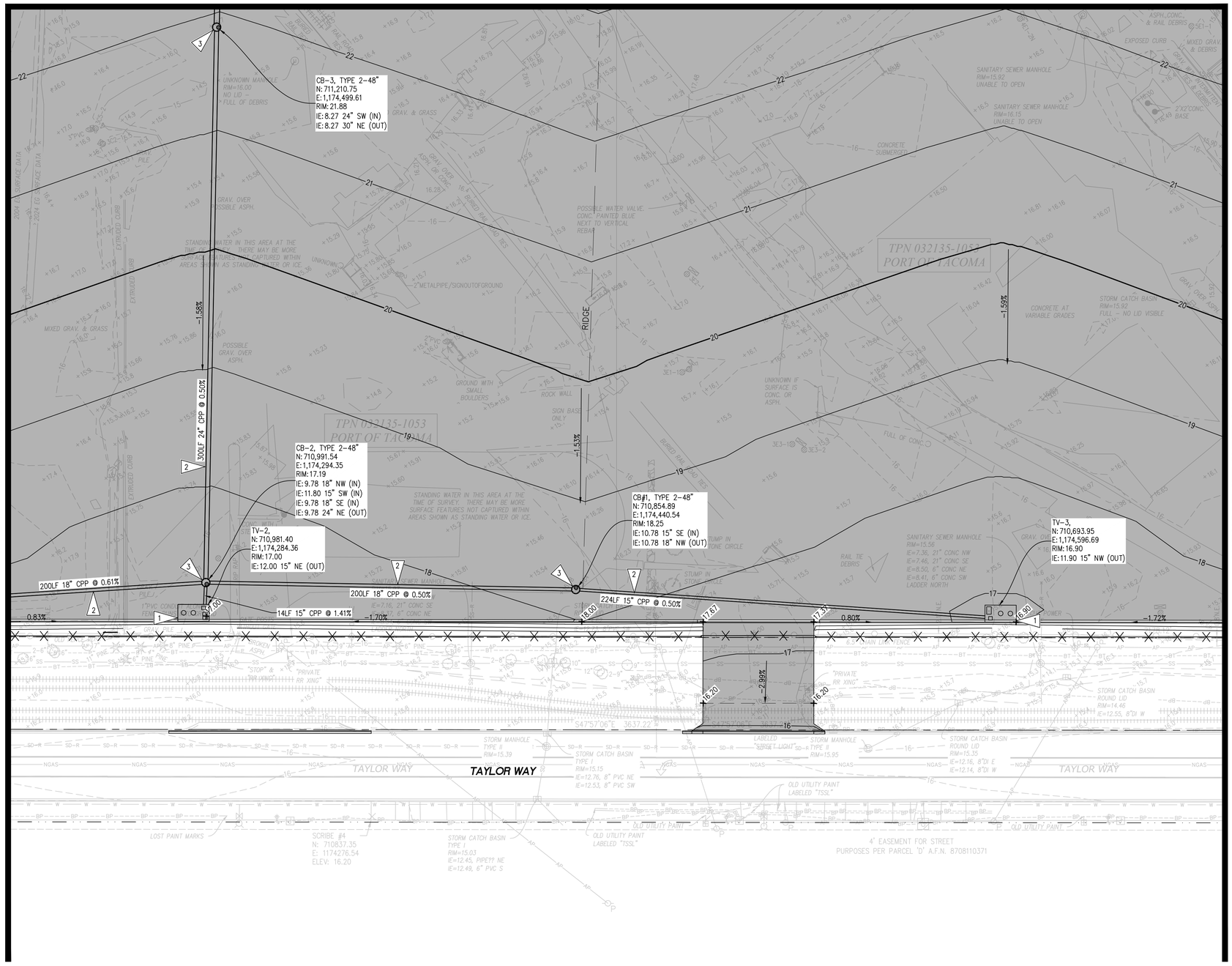
BINDING EDGE

MATCHLINE SEE SHEET C2.1

MATCHLINE SEE SHEET C2.7

MATCHLINE SEE SHEET C2.3



GRADING AND DRAINAGE PLAN - AREA 2

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- STORM DRAIN PIPE
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
- 20 CONTOUR MAJOR
- 19 CONTOUR MINOR
- RIDGE LINE
- HTL HIGH TIDE LINE
- MHHW MEAN HIGHER HIGH WATER
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
- MLLW MEAN LOWER LOW WATER
- -1.50% SURFACE FLOW DIRECTION
- +17.13 SPOT ELEVATION

GENERAL NOTES

1. THE BURIED UTILITIES ON THIS PROJECT ARE SHOWN IN THEIR APPROXIMATE LOCATION WHERE KNOWN BASED ON FIELD SURVEY PERFORMED BY SITTS & HILL. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEIR LOCATION MARKED ON THE GROUND PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL PROTECT, OR IMMEDIATELY REPAIR, ANY DAMAGED UTILITY "DISCOVERED" ON THIS PROJECT WITHOUT ADDITIONAL COSTS.
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3. SEE SHEETS C2.9–C2.13 FOR STORM DRAINAGE AND GRADING DETAILS AND NOTES.
4. ALL CATCH BASIN COVERS/LIDS TO BE BOLT-DOWN. THE CONTRACTOR SHALL SET RINGS AS NECESSARY TO MATCH CROSS SLOPE OF THE FINISHED GRADE.
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7. REFER TO STORM DRAINAGE SYSTEM NOTES ON SHEET C2.9 FOR THE SPECIFICATIONS OF THE STORM SYSTEM ELEMENTS.

KEY NOTES

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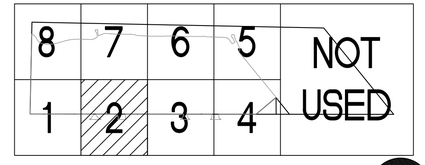

KEY PLAN

SCALE: NTS

NORTH

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WWW.SITTSHILL.COM

MARK:	REVISION:	BY:	APPR:	DATE:

PRELIMINARY
NOT FOR CONSTRUCTION
RICHARD C. HANDY
STATE OF WASHINGTON
20878
REGISTERED PROFESSIONAL ENGINEER

APPROVED:		
RCH	CHECKED BY	07/19/24 DATE
BAS	DRAFTED BY	07/19/24 DATE
DIRECTOR_ENG. DATE	PROJ. ENGR	J. ENGR DATE
PRINTED BY: srebrob	Jul 17, 2024	
PORT ADDRESS: ONE SITCUM PLAZA		
TACOMA, WA 98401-1837		

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
GRADING AND DRAINAGE PLAN - AREA 2

CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE: 30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

6698
C2.2
SH # 38 OF 72

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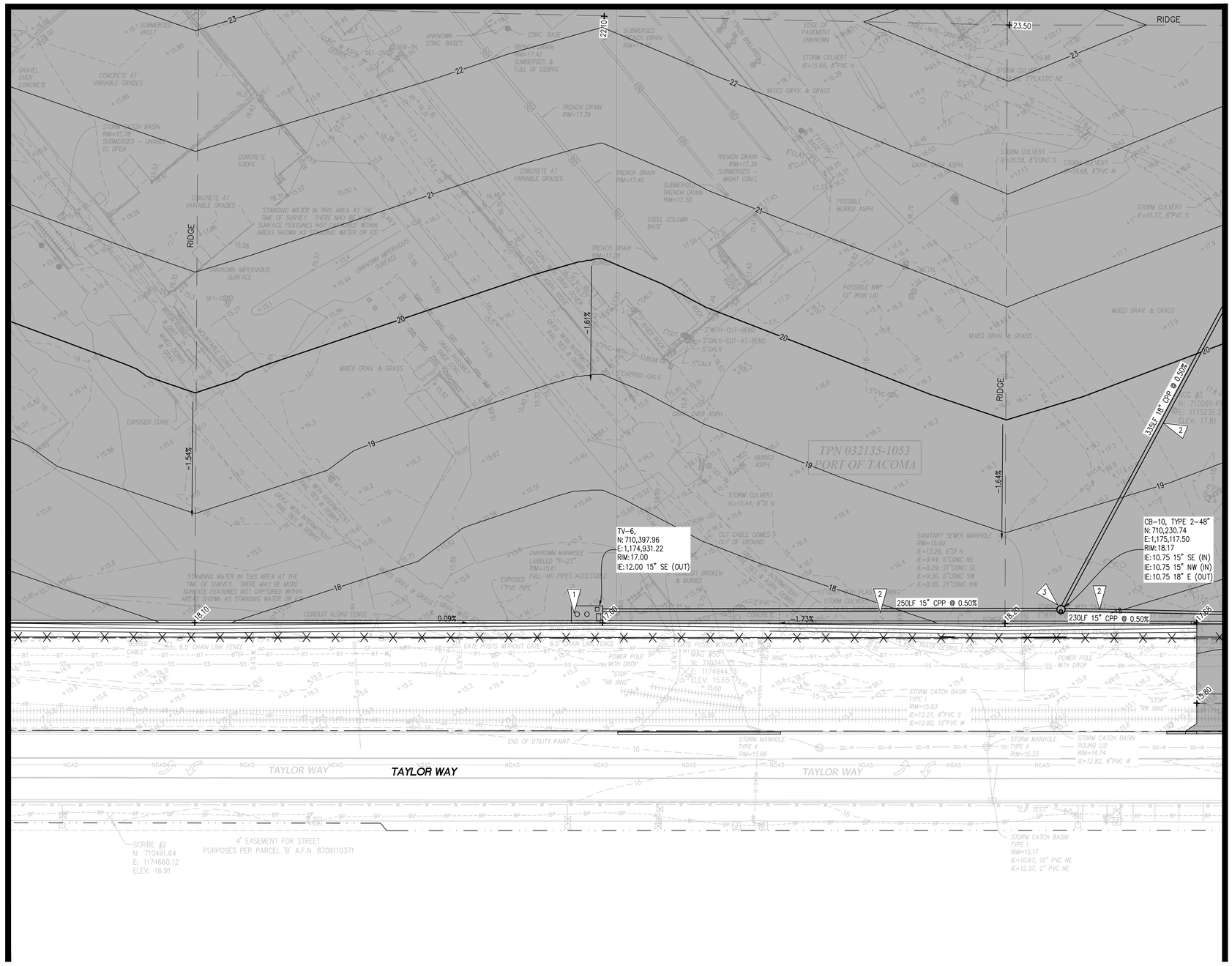
BINDING EDGE

MATCHLINE SEE SHEET C2.2

MATCHLINE SEE SHEET C2.6



MATCHLINE SEE SHEET C2.4

LEGEND

PROPOSED FEATURES-

- STORM DRAIN PIPE
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
- CONTOUR MAJOR
- CONTOUR MINOR
- RIDGE LINE
- HTL — HIGH TIDE LINE
- MHHW — MEAN HIGHER HIGH WATER
- MHW — MEAN HIGH WATER
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- MLLW — MEAN LOWER LOW WATER
- −1.50% — SURFACE FLOW DIRECTION
- +17.13 — SPOT ELEVATION

GENERAL NOTES

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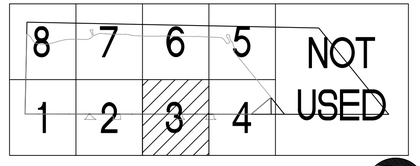
GRADING AND DRAINAGE PLAN - AREA 3

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH



KEY PLAN
SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HANDY — STATE OF WASHINGTON — 20178 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY
NOT FOR CONSTRUCTION

07/19/24
RCH | DATE
CHECKED BY

07/19/24
BAS | DATE
PROJ. ENGR

APPROVED:

DIRECTOR ENG. | DATE

PRINTED BY: srebrob Jul 17, 2024

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
GRADING AND DRAINAGE PLAN - AREA 3

CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE: 30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

6698
C2.3
SH # 39 OF 72

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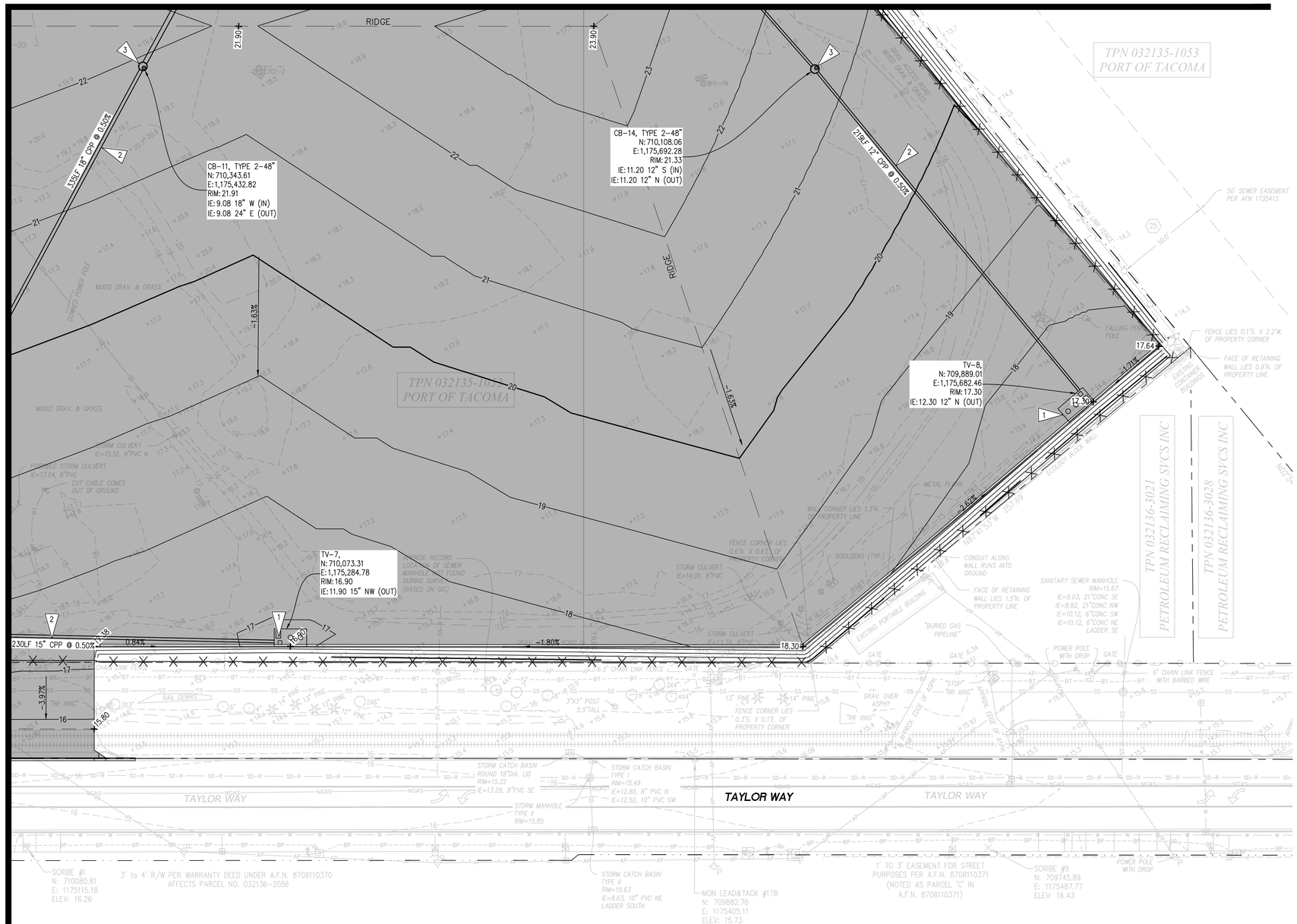
BINDING EDGE

MATCHLINE SEE SHEET C2.3

MATCHLINE SEE SHEET C2.5



GRADING AND DRAINAGE PLAN - AREA 4

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- STORM DRAIN PIPE
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
- CONTOUR MAJOR
- CONTOUR MINOR
- RIDGE LINE
- HTL — HIGH TIDE LINE
- MHHW — MEAN HIGHER HIGH WATER
- MHW — MEAN HIGH WATER
- MLW — MEAN LOW WATER
- MLLW — MEAN LOWER LOW WATER
- -1.50% — SURFACE FLOW DIRECTION
- +17.13 — SPOT ELEVATION

GENERAL NOTES

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KEY NOTES

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8	7	6	5	NOT USED
1	2	3	4	

KEY PLAN

SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HAND — STATE OF WASHINGTON — 25810 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION

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APPROVED:

DIRECTOR ENG. DATE

PRINTED BY: srebrob Jul 17, 2024

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TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
GRADING AND DRAINAGE PLAN - AREA 4

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698 **C2.4** SH # 40 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

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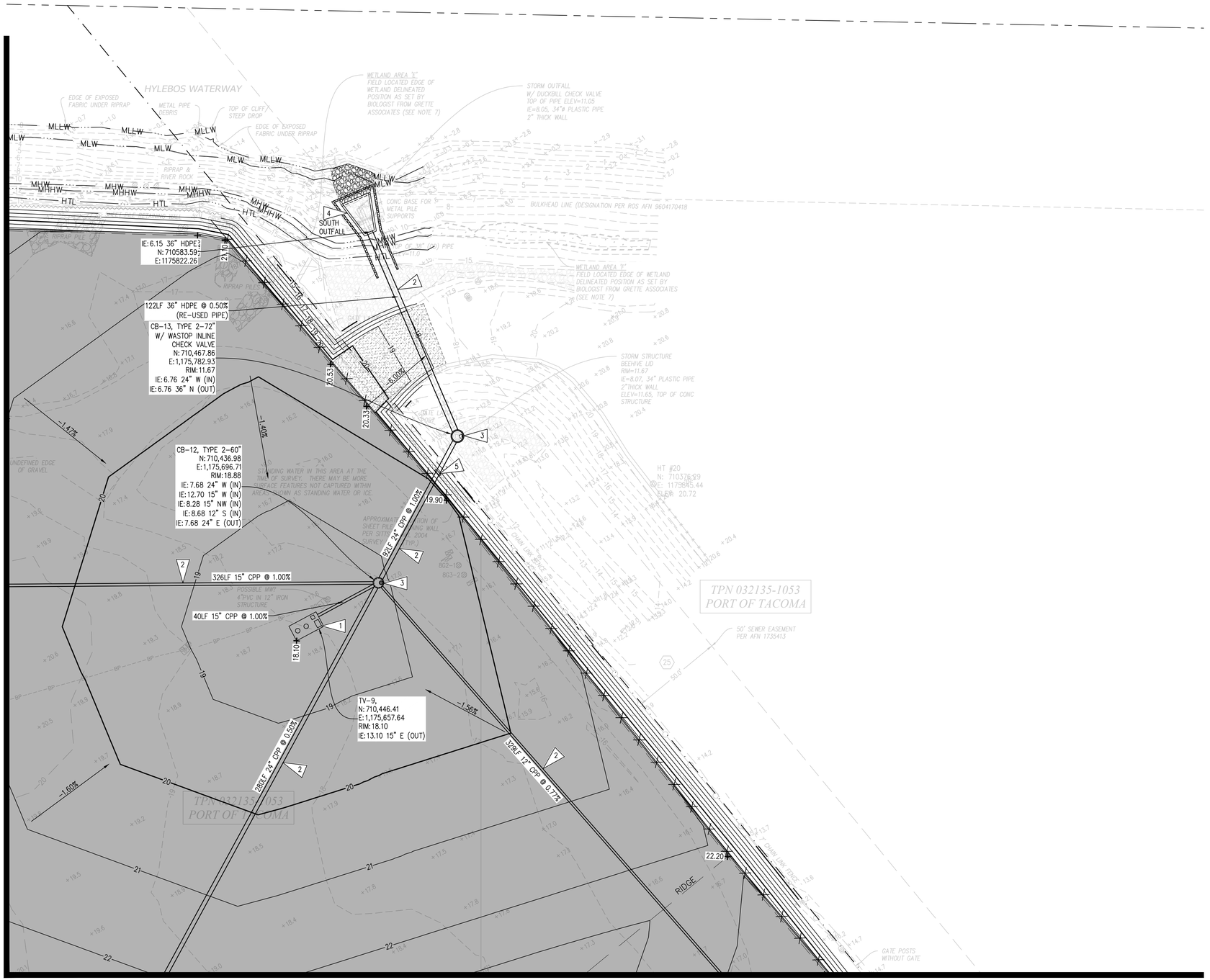

MATCHLINE SEE SHEET C2.6

MATCHLINE SEE SHEET C2.4

GRADING AND DRAINAGE PLAN - AREA 5

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- STORM DRAIN PIPE
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
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- MHW MEAN HIGH WATER
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- MLLW MEAN LOWER LOW WATER
- -1.50% SURFACE FLOW DIRECTION
- +17.13 SPOT ELEVATION

GENERAL NOTES

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2. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITTS & HILL ENGINEERS, INC. SEE SHEET SV1.0 FOR HORIZONTAL AND VERTICAL DATUM.
3. SEE SHEETS C2.9–C2.13 FOR STORM DRAINAGE AND GRADING DETAILS AND NOTES.
4. ALL CATCH BASIN COVERS/LIDS TO BE BOLT-DOWN. THE CONTRACTOR SHALL SET RINGS AS NECESSARY TO MATCH CROSS SLOPE OF THE FINISHED GRADE.
5. CONTRACTOR AND/OR SURVEYOR SHALL CALCULATE PIPE SLOPES BASED ON THE INVERT ELEVATIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FIELD STAKING AND CONSTRUCTION.
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7. REFER TO STORM DRAINAGE SYSTEM NOTES ON SHEET C2.9 FOR THE SPECIFICATIONS OF THE STORM SYSTEM ELEMENTS.

KEY NOTES

1. INSTALL STORM TREATMENT VAULT PER DETAILS ON SHEETS C2.10 AND C2.11. PROVIDE STRUCTURE SUPPORT PER DETAIL 2/C2.9.
2. INSTALL STORM DRAINAGE PIPE. PIPE SIZE, MATERIAL AND SLOPE PER CALLOUT. REFER TO STORM DRAINAGE SYSTEM NOTES ON C2.9 FOR SPECIFICATIONS. PIPE BEDDING PER DETAIL 1/C2.9.
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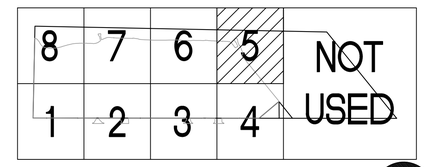

KEY PLAN
SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HANDY — STATE OF WASHINGTON — 22850 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY — NOT FOR CONSTRUCTION

APPROVED:

DIRECTOR, ENG. DATE

RCH 07/19/24
CHECKED BY DATE

BAS 07/19/24
PROJ. ENGR DATE

PRINTED BY: srebrob Jul 17, 2024
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
GRADING AND DRAINAGE PLAN - AREA 5

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE:	30%	PARCEL: 0321351053		

6698
C2.5
SH # 41 OF 72

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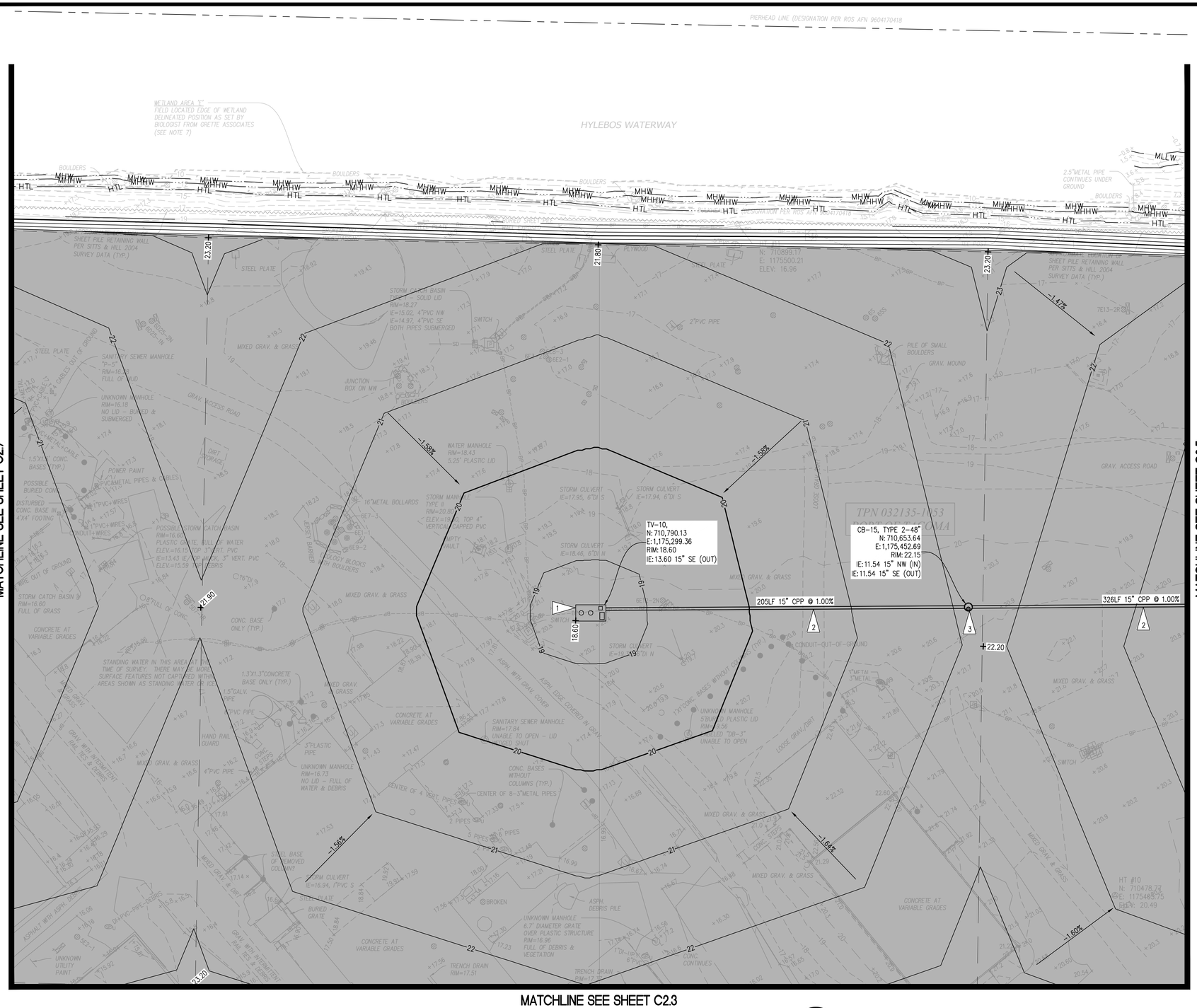

GRADING AND DRAINAGE PLAN - AREA 6

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- STORM DRAIN PIPE
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
- 20 CONTOUR MAJOR
- 19 CONTOUR MINOR
- RIDGE LINE
- HTL HIGH TIDE LINE
- MHHW MEAN HIGHER HIGH WATER
- MHW MEAN HIGH WATER
- MLW MEAN LOW WATER
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- -1.50% SURFACE FLOW DIRECTION
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GENERAL NOTES

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KEY NOTES

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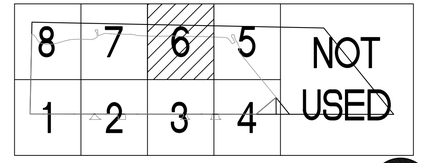

KEY PLAN

SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HANDY — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION

APPROVED:

RCH	07/19/24		
CHECKED BY	DATE		
BAS	07/19/24		
DIRECTOR ENG.	DATE		

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
GRADING AND DRAINAGE PLAN - AREA 6

PROJ. ENGR	J. ENGR	DATE	07/19/24
PRINTED BY:	srebrob	Jul 17, 2024	
PORT ADDRESS:	ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HR2: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698
C2.6
SH # 42 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

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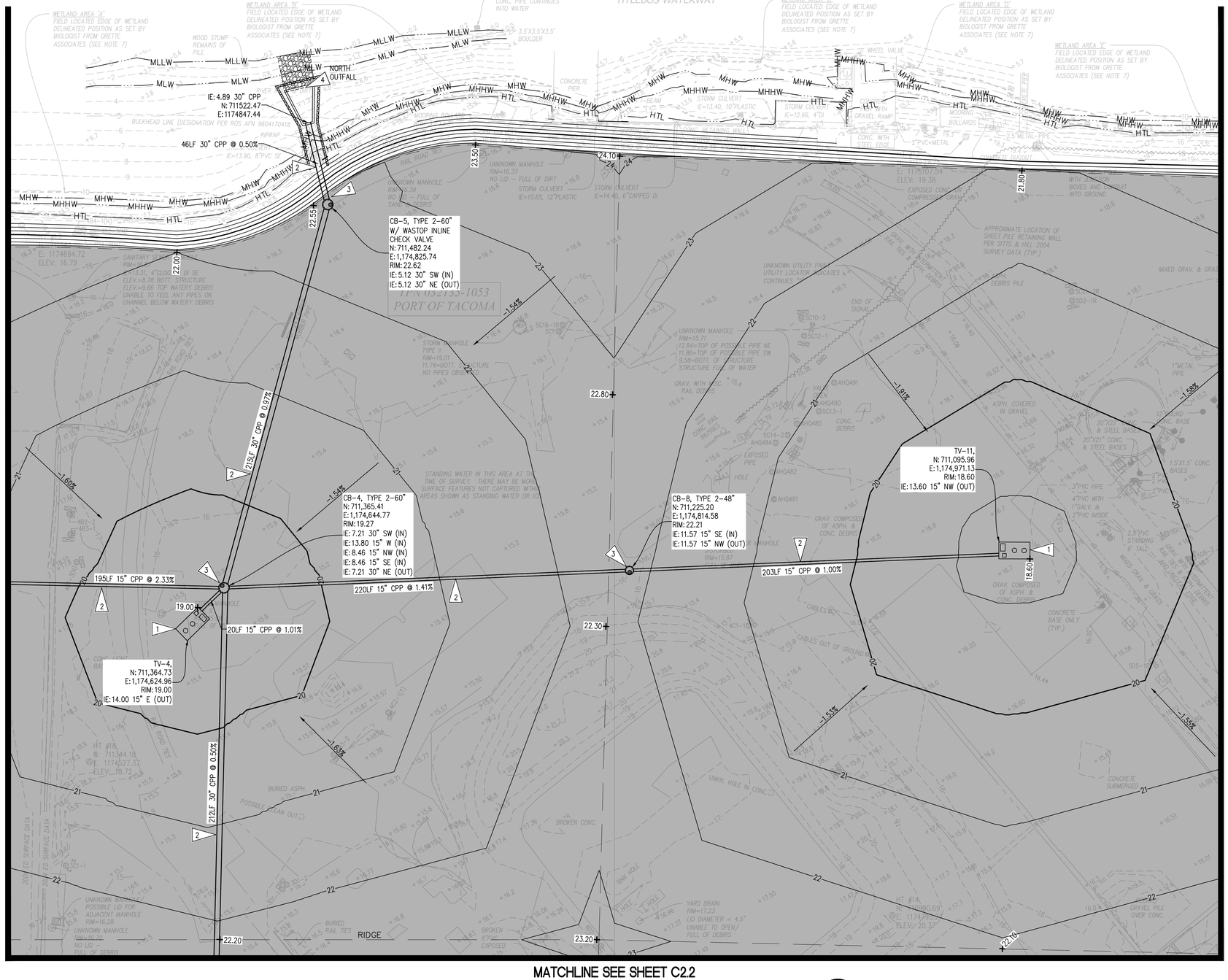

GRADING AND DRAINAGE PLAN - AREA 7

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- STORM DRAIN PIPE
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
- 20 CONTOUR MAJOR
- 19 CONTOUR MINOR
- RIDGE LINE
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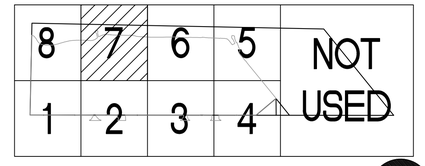

KEY PLAN

SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HANDY — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION

APPROVED:		
RCH	CHECKED BY	07/19/24 DATE
BAS	DIRECTOR_ENG.	07/19/24 DATE
	PROJ. ENGR	J. ENGR
	PRINTED BY:	srebrob Jul 17, 2024
	PORT ADDRESS:	ONE SITCUM PLAZA
	DRAWING SCALE:	AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
GRADING AND DRAINAGE PLAN - AREA 7

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT–HR2: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	SECTION: 36

6698
C2.7
SH # 43 OF 72

TACOMA, WA 98401-1837

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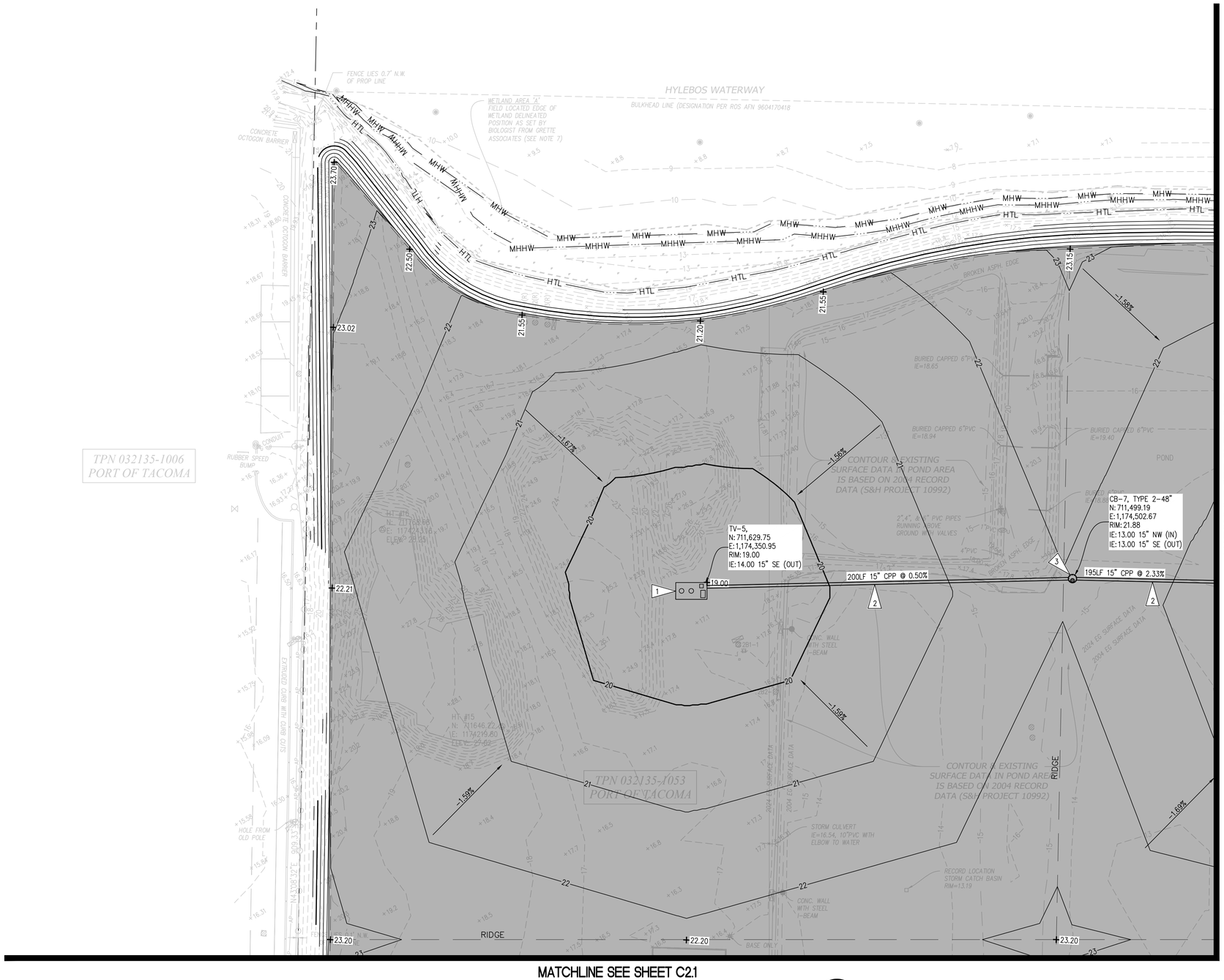

TPN 032135-1006
PORT OF TACOMA

MATCHLINE SEE SHEET C2.7

MATCHLINE SEE SHEET C2.1

GRADING AND DRAINAGE PLAN - AREA 8

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'
30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- STORM DRAIN PIPE
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
- 20 CONTOUR MAJOR
- 19 CONTOUR MINOR
- RIDGE LINE
- HTL HIGH TIDE LINE
- MHHW MEAN HIGHER HIGH WATER
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8	7	6	5	NOT USED
1	2	3	4	

KEY PLAN
SCALE: NTS

NORTH

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RICHARD C. HANDY — STATE OF WASHINGTON — 22760 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — SIGNATURE

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
GRADING AND DRAINAGE PLAN - AREA 8

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST SECTION: 36
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

6698
C2.8
SH # 44 OF 72

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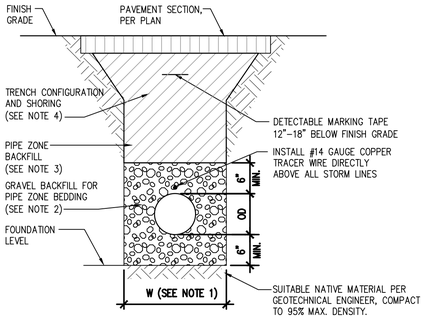


NOTES:

1) TRENCH WIDTH SHALL BE AS SPECIFIED IN SECTION 2-09.4 OF WSDOT STANDARD SPECIFICATIONS.

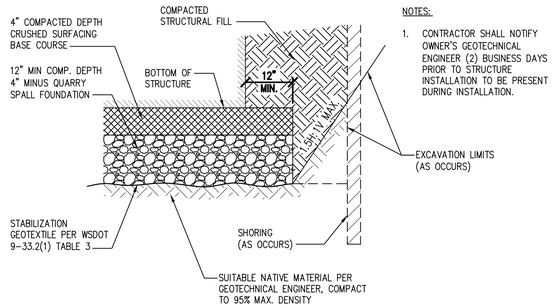
2) GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 9-03.9(3), CRUSHED SURFACING BASE COURSE.

3) PIPE ZONE BACKFILL SHALL BE WITH NATIVE SOILS AND COMPACTED TO 95% MAXIMUM DENSITY.

4) TRENCH CONFIGURATION AND SHORING SHALL COMPLY WITH WAC 296-155 PART N, EXCAVATION, TRENCHING AND SHORING REQUIREMENTS.

1 / C2.1-8 — PIPE BEDDING AND BACKFILL

SCALE: NTS



NOTES:

1. CONTRACTOR SHALL NOTIFY OWNER'S GEOTECHNICAL ENGINEER (2) BUSINESS DAYS PRIOR TO STRUCTURE INSTALLATION TO BE PRESENT DURING INSTALLATION.

2 / C2.1-8 — UTILITY STRUCTURE SUPPORT

SCALE: NTS

EXCAVATION NOTES

1. EXCAVATE TO ELEVATIONS, LINES AND GRADES INDICATED TO NOT MORE THAN 1/2-INCH ABOVE OR BELOW THAT REQUIRED.
2. SLOPE SIDES OF EXCAVATION AS INDICATED OR COMPLY WITH LOCAL CODES AND ORDINANCES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED.
3. STOCKPILE SATISFACTORY EXCAVATED MATERIALS UNTIL REQUIRED FOR BACKFILL OR FILL. PLACE, GRADE AND SHAPE STOCKPILES FOR PROPER DRAINAGE. LOCATE AND RETAIN SOIL MATERIALS AWAY FROM EDGE OF EXCAVATIONS.
4. DISPOSE OF EXCESS SOIL AND UNSUITABLE SOIL MATERIAL OFF-SITE AS DIRECTED.

SUBGRADE PREPARATION NOTES

1. ALL EXPOSED SUBGRADE SHALL BE PROOF ROLLED UNDER THE OBSERVATION OF THE OWNERS INSPECTION / TESTING AGENCY WITH A LOADED 12 CY (MINIMUM) DUMP TRUCK OR HEAVY COMPACTOR. ANY LOCALIZED ZONE OF YIELDING SUBGRADE SHALL BE OVEREXCAVATED TO A MAXIMUM DEPTH OF 24" (OR AS DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER) AND REPLACED WITH STRUCTURAL FILL, COMPACTED TO 95% MAX. DENSITY.
2. WHERE SUBGRADE CANNOT BE FEASIBLY SUBJECTED TO A PROOF-ROLL, COMPACTION SHALL BE VERIFIED BY A MINIMUM OF ONE NON-DESTRUCTIVE FIELD DENSITY TEST (I.E. NUCLEAR DENSIOMETER) PER 2,000 SQUARE FEET, BUT IN NO CASE LESS THAN THREE (3) TESTS. IF ADDITIONAL COMPACTION IS REQUIRED, RE-TESTING OF SUBGRADE SHALL BE AT CONTRACTOR'S EXPENSE.
3. STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8-INCHES, MOISTURE CONDITIONED TO ACHIEVE OPTIMAL MOISTURE CONTENT FOR COMPACTION, AND COMPACTED TO 95% MAX. DENSITY PER ASTM D-1557-70.
4. WHERE REQUIRED, STRUCTURAL FILL SHALL CONFORM TO THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATION 9-03.14(1) GRAVEL BORROW, MODIFIED FROM 7.0% TO 5.0% PASSING THE U.S. NO. 200 SIEVE.
5. SUBMIT ONE COPY OF INSPECTION / TESTING AGENCY FIELD REPORTS AND COMPACTION RESULTS TO ENGINEER WITHIN TWO WEEKS OF FIELD OBSERVATION.
6. CRUSHED SURFACING TOP COURSE (CSTC) SHALL COMPLY WITH WSDOT STANDARD SPECIFICATION 9-03.9(3).
7. NON-WOVEN GEOTEXTILE FABRIC SHALL CONFORM WITH REQUIREMENTS OF SEPARATION FABRIC PER TABLE 3 WSDOT SPECIFICATION 9-33.2(1). INSTALLATION OF FABRIC SHALL CONFORM WITH WSDOT SPECIFICATION 2-12.
8. ALL AREAS TO BE GRADED SHALL BE CLEARED OF SURFACE AND SUBSURFACE DELETERIOUS MATTER INCLUDING ANY DEBRIS, TREES AND ASSOCIATED STUMPS AND ROOTS AND UNDERBRUSH. GRADED AREAS SHALL BE STRIPPED OF ANY FOREST DUFF AND ORGANIC LADEN SOILS.
9. SUBGRADE BELOW STRUCTURAL FILL SHALL CONSIST OF FIRM, UNYIELDING NATIVE SOILS OR STRUCTURAL FILL MATERIALS. UNDER NO CIRCUMSTANCES SHALL FOUNDATIONS BE INSTALLED ATOP LOOSE, SOFT, OR FROZEN SOIL, SLOUGH, DEBRIS, EXISTING UNCONTROLLED FILL, OR SURFACES COVERED BY STANDING WATER. ANY LOCALIZED ZONES OF LOOSER GRANULAR SOILS OBSERVED WITHIN A SUBGRADE SHALL BE COMPACTED TO A DENSITY EQUAL TO THE SURROUNDING SOILS. ANY ORGANIC, SOFT, OR PUMPING SOILS OBSERVED WITHIN A SUBGRADE SHALL BE OVEREXCAVATED AND REPLACED WITH STRUCTURAL FILL MATERIAL. SUBGRADE CONDITION SHALL BE VERIFIED BY THE PROJECT GEOTECHNICAL ENGINEER OR SPECIAL INSPECTOR PRIOR TO PLACING STRUCTURAL FILL.

COMPACTION NOTES

1. CONTROL SOIL COMPACTION DURING CONSTRUCTION PROVIDING MINIMUM PERCENTAGE OF DENSITY SPECIFIED FOR EACH AREA CLASSIFICATION. PERCENTAGES ARE RELATED TO MAXIMUM DRY DENSITY AS MEASURED IN CONFORMANCE WITH ASTM D 1557.
2. COMPACT TOP 12-INCHES OF SUBGRADE TO 95-PERCENT OF MAXIMUM DRY DENSITY UNDER PAVEMENTS AND GRAVEL SURFACING.
3. WHERE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, UNIFORMLY APPLY WATER TO SURFACE OF SUBGRADE OR LAYER OF SOIL MATERIAL TO PREVENT FREE WATER APPEARING ON SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY. SOIL MATERIAL THAT HAS BEEN REMOVED BECAUSE IT IS TOO WET TO PERMIT COMPACTION MAY BE STOCKPILED OR SPREAD AND ALLOWED TO DRY. ASSIST DRYING BY DISKING, HARROWING OR PULVERIZING UNTIL MOISTURE CONTENT IS REDUCED TO SATISFACTORY VALUE.

STORM DRAINAGE SYSTEM NOTES

1. STORM PIPE BEDDING AND BACKFILL SHALL BE PER DETAIL 1/C2.9.
2. CATCH BASIN TYPE 2 SHALL BE PER WSDOT STANDARD PLAN B-10.20.03 WITH CIRCULAR FRAME AND COVER PER WSDOT STANDARD PLAN B-30.20, HERRINGBONE GRATE PER WSDOT STANDARD PLAN B-30.70-04. STRUCTURE SIZE AND INVERT ELEVATIONS PER PLAN SHEETS C2.1-C2.8.
3. STORM STRUCTURES SHALL BE INSTALLED PER WSDOT STANDARD SPECIFICATIONS 7-05.
4. CORRUGATED POLYPROPYLENE PIPE (CPP) AND FITTINGS: SHALL BE DUAL WALL AND COMPLY WITH WSDOT 9-05.24 REQUIREMENTS. ALL CPP JOINTS AND FITTINGS SHALL BE WATERTIGHT AND PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH WSDOT 7-04 REQUIREMENTS.
5. GRAVITY STORMWATER SYSTEM SHALL BE LOW PRESSURE AIR TESTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 7-04.3(1)F. AT THE OWNER'S DISCRETION, PIT DRAINS, MANHOLES, VAULTS OR OTHER ANCILLARY PIPE SYSTEMS MAY BE HYDROSTATICALLY TESTING TO THE OWNER'S SATISFACTION (E.G. PLUG PIPES, FILL STRUCTURE TO SET ELEVATION WITH WATER, AND OBSERVE WATER LEVEL DEVIATION OVER A SET PERIOD OF TIME).
6. TREATMENT VAULTS (TV) AND FILTRATION MEDIA MIX (FMM) SHALL BE SUPPLIED BY PORT OF TACOMA AND INSTALLED BY THE CONTRACTOR.
7. CHECKMATE ULTRAFLEX INLINE CHECK VALVES SHALL BE AS MANUFACTURED BY TIDEFLEX REDVALVE.
8. PROVIDE 1.0' MINIMUM VERTICAL AND 5' MINIMUM HORIZONTAL CLEARANCE (OUTSIDE SURFACES) BETWEEN STORM DRAIN PIPES AND OTHER UTILITY PIPES AND CONDUITS, UNLESS OTHERWISE NOTED.
9. DETECTABLE MARKING TAPE SHALL BE INSTALLED ALONG THE FULL LENGTH OF STORM UTILITY. DETECTION TAPE SHALL BE 6-INCH WIDTH (MINIMUM), CONTAIN A 3.5 MIL SOLID ALUMINUM CORE, BE A MINIMUM OF 5.0 MIL OVERALL THICKNESS, AND BE SUITABLE FOR DIRECT BURY. THE TAPE SHALL BE COLOR CODED ACCORDING TO AWWA AND CONTINUOUSLY IMPRINTED WITH THE TYPE OF UTILITY FOR UTILITY SHOWN.

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ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

GRADING AND DRAINAGE NOTES AND DETAILS

CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE: 30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

6698

C2.9

SH # 45 OF 72

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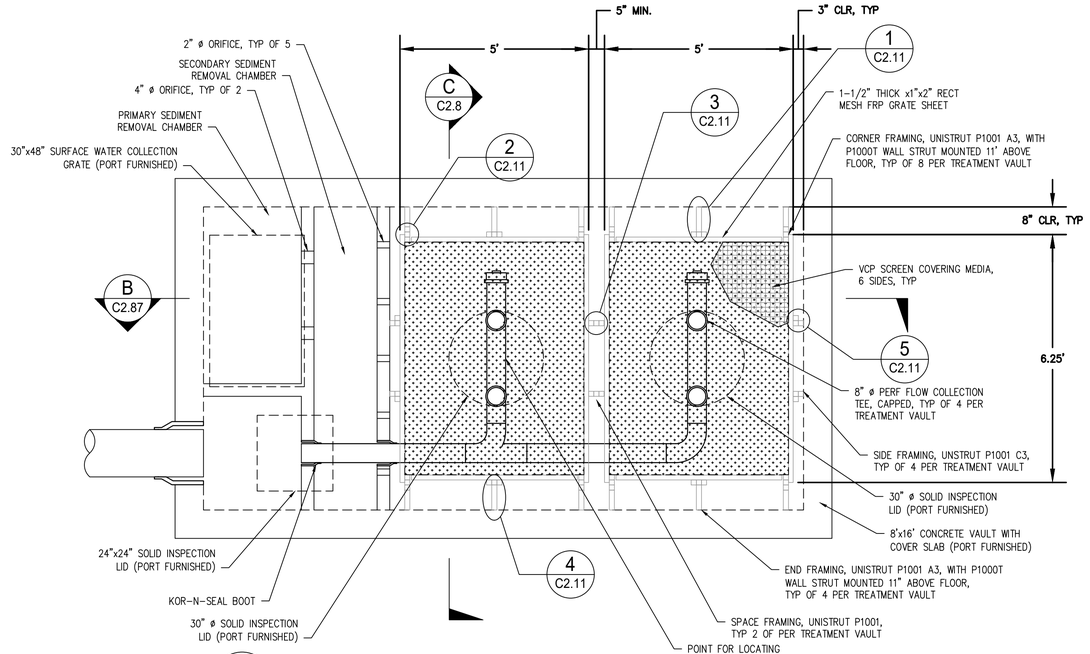
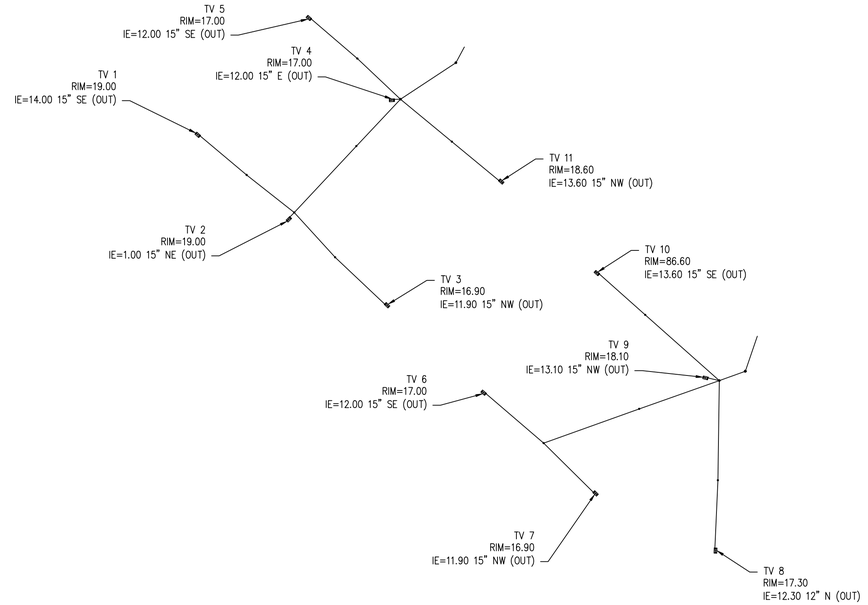


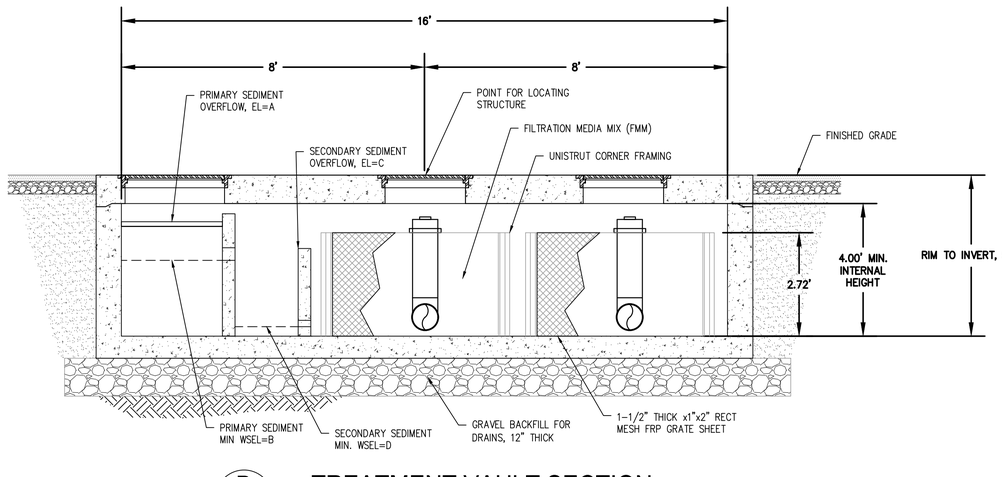
1 C2.8 **TREATMENT VAULT, TYPICAL**
SCALE: 1"=2'

NOTES

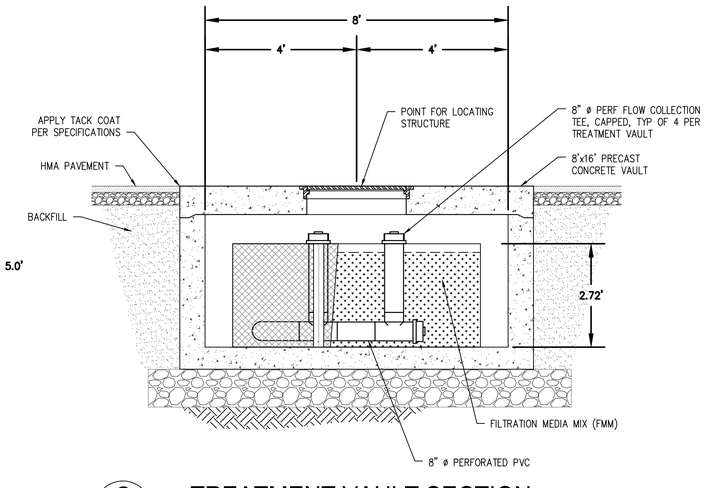
1. FOR ANCHORAGE OF UNISTRUT TO CONCRETE FOUNDATION SEE DETAIL 6 ON SHEET C2.11
2. CONCRETE VAULT COMPLETE WITH BAFFLE WALLS, INSPECTION LIDS AND COLLECTION GRATES SHALL BE PORT FURNISHED



A C2.8 **TREATMENT VAULTS PLAN**
SCALE: 1"=250'



B C2.8 **TREATMENT VAULT SECTION**
SCALE: 1"=2'



C C2.8 **TREATMENT VAULT SECTION**
SCALE: 1"=2'

TREATMENT VAULT

BASIS OF DESIGN:
FMM CAGE SIDE SURFACE AREA = 112.8 SF
FMM CAGE TOP SURFACE AREA = 73.8 SF
FMM CAGE SURFACE AREA = 186.6 SF
TREATMENT RATE = 1 GPM/SF
VAULT TREATMENT CAPACITY = 186.6 GPM (0.42 CFS)

ELEVATIONS
A=43" ABOVE VAULT FLOOR, 37.5" W/ ONE 2x2 FLASHBOARD
B=24" ABOVE VAULT FLOOR
C=28" ABOVE VAULT FLOOR, 35" W/ TWO 2x4 FLASHBOARDS
D=3" ABOVE VAULT FLOOR
E=45" ABOVE VAULT FLOOR

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TREATMENT VAULT DETAILS 1

CONT/CONS:	072075	TOWNSHIP: 21 NORTH | RANGE: 3 EAST | SECTION: 36	
M. ID:	101585.01	DAT-HRZ: WA83/2011 | VERT: MLLW 15.73' @ POT MON #178	
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

6698
C2.10
SH # 46 OF 72

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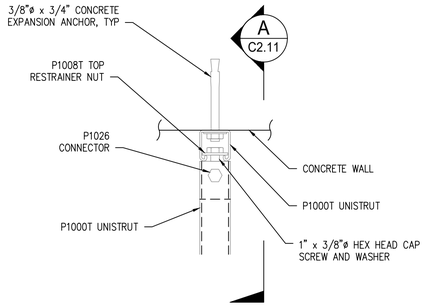
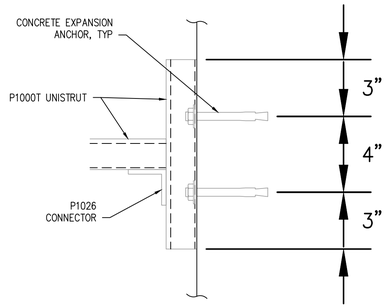


1 C2.10 DETAIL
SCALE: N.T.S.



A C2.11 DETAIL
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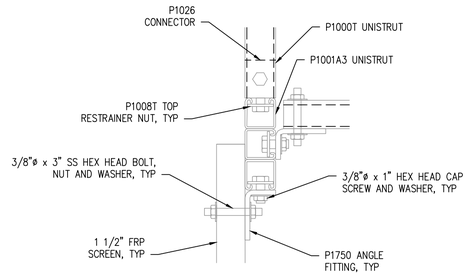
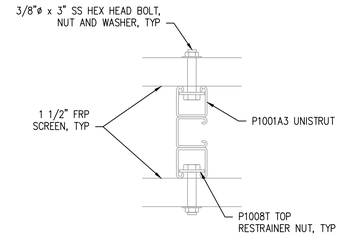
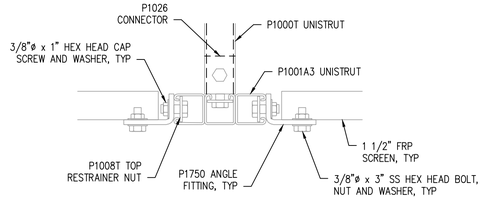


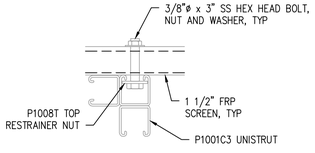
2 C2.10 DETAIL
SCALE: N.T.S.



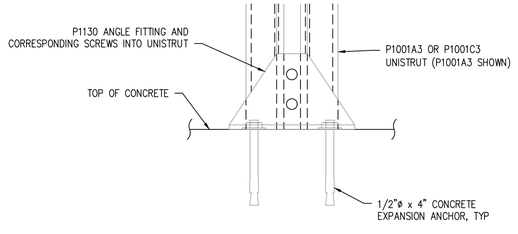
3 C2.10 DETAIL
SCALE: N.T.S.



4 C2.10 DETAIL
SCALE: N.T.S.



6 C2.10 DETAIL
SCALE: N.T.S.



7 C2.10 DETAIL
SCALE: N.T.S.

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
TREATMENT VAULT DETAILS 2

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698
C2.11
SH # 47 OF 72

CONT/CONS:	072075		
M. ID:	101585.01		
PHASE:	30%		

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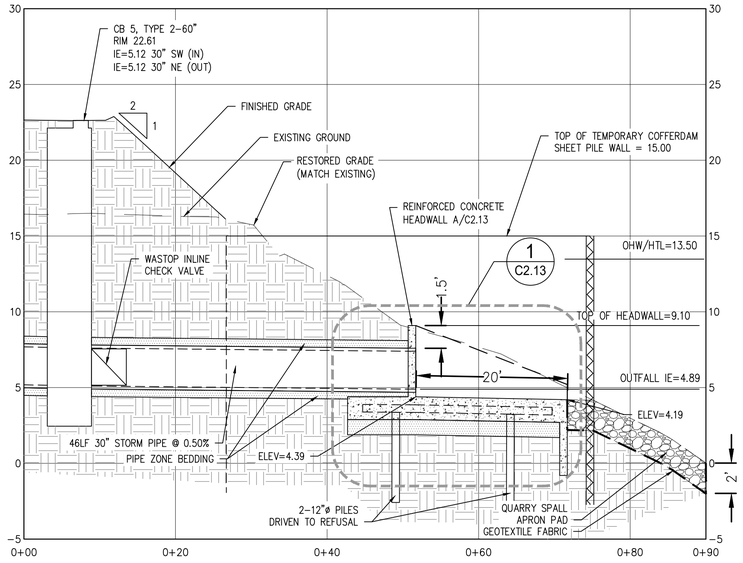


1 / C2.7

NORTH OUTFALL

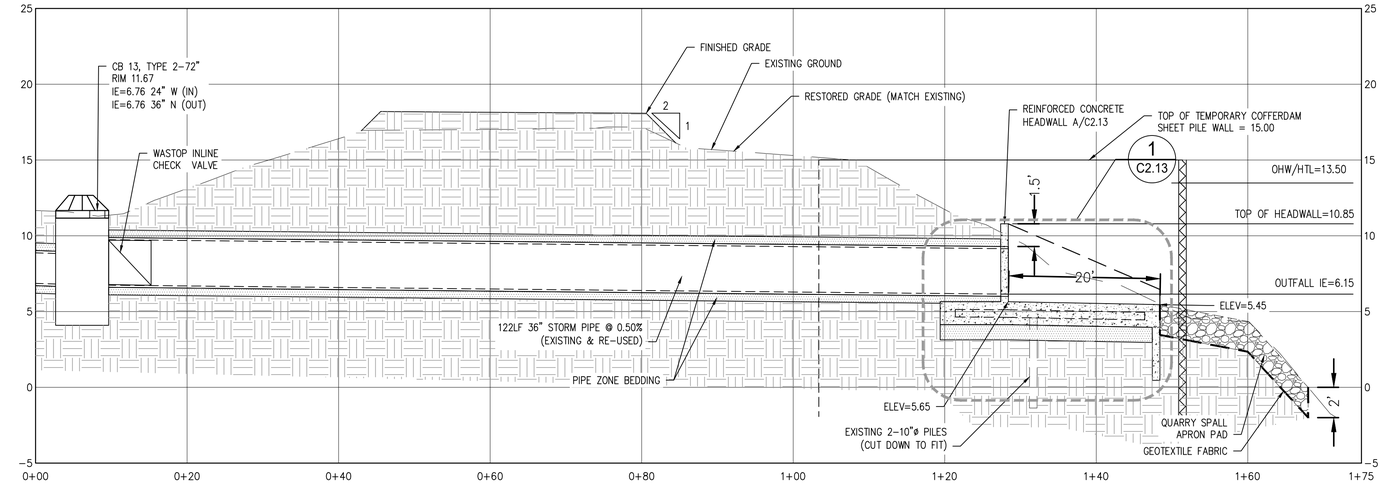
SCALE: H:1"=10' V:1"=5'

HORIZONTAL SCALE: 1"=10'

10 0 10 20

5 0 5 10

VERTICAL SCALE: 1"=5'



2 / C2.5

SOUTH OUTFALL

SCALE: H:1"=10' V:1"=5'

HORIZONTAL SCALE: 1"=10'

10 0 10 20

5 0 5 10

VERTICAL SCALE: 1"=5'

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C2.12

SH # 48 OF 72

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

OUTFALL SECTIONS

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

SECTION: 36

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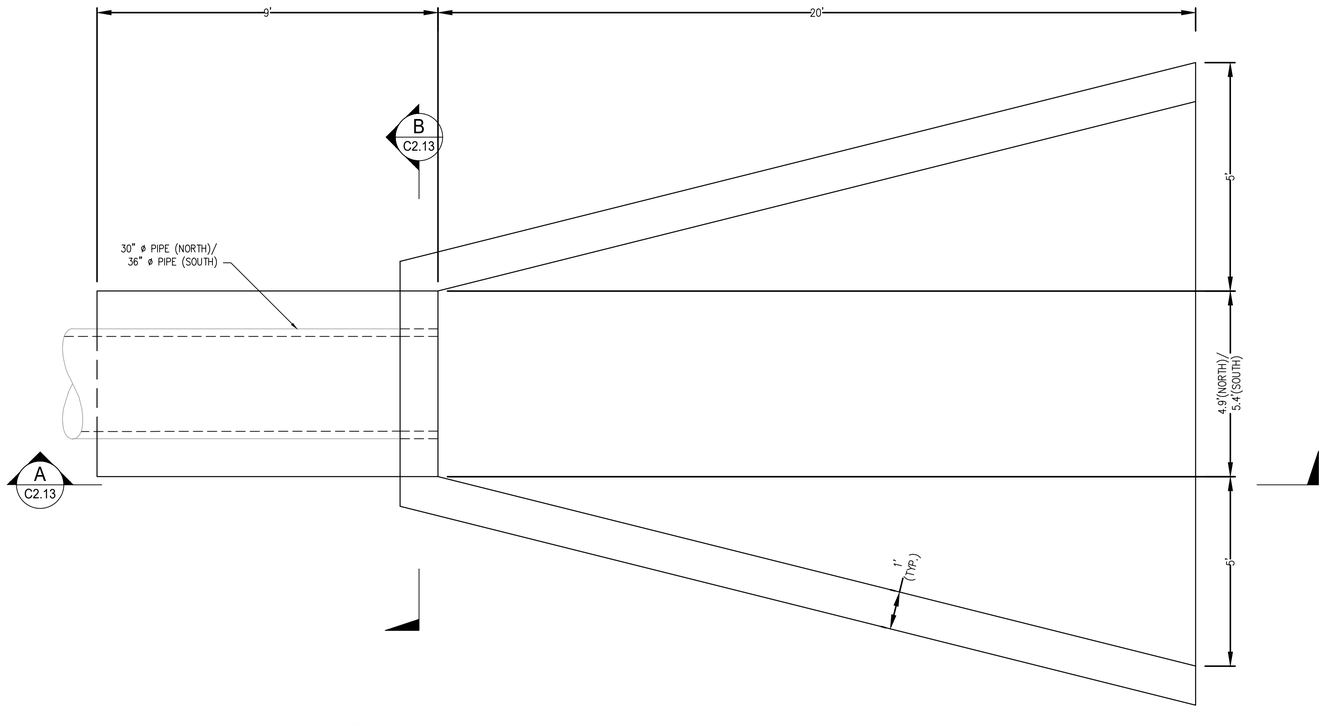
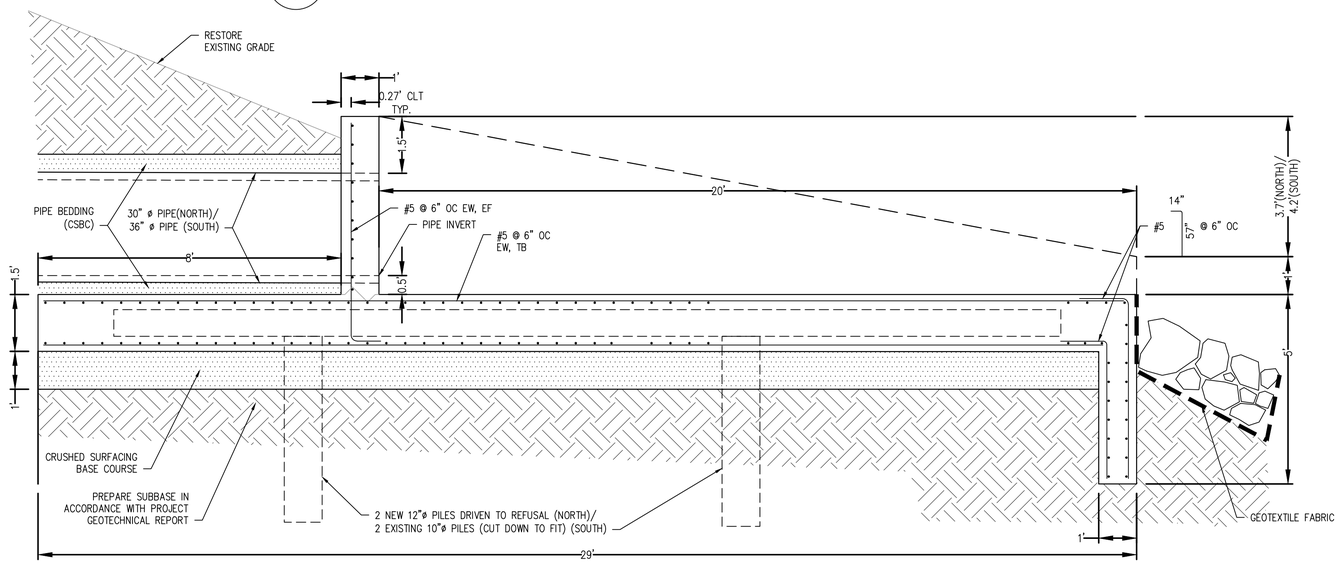


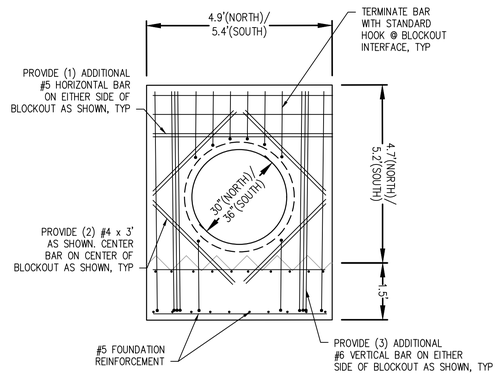
1 C2.5,C2.7 **PLAN**

SCALE: 1"=2'



A C2.13 **SECTION**

SCALE: 1"=2'



B C2.13 **SECTION**

SCALE: 1"=2'

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
OUTFALL DETAILS

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

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C2.13
SH # 49 OF 72

CONT/CONS:	072075
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PHASE:	30%

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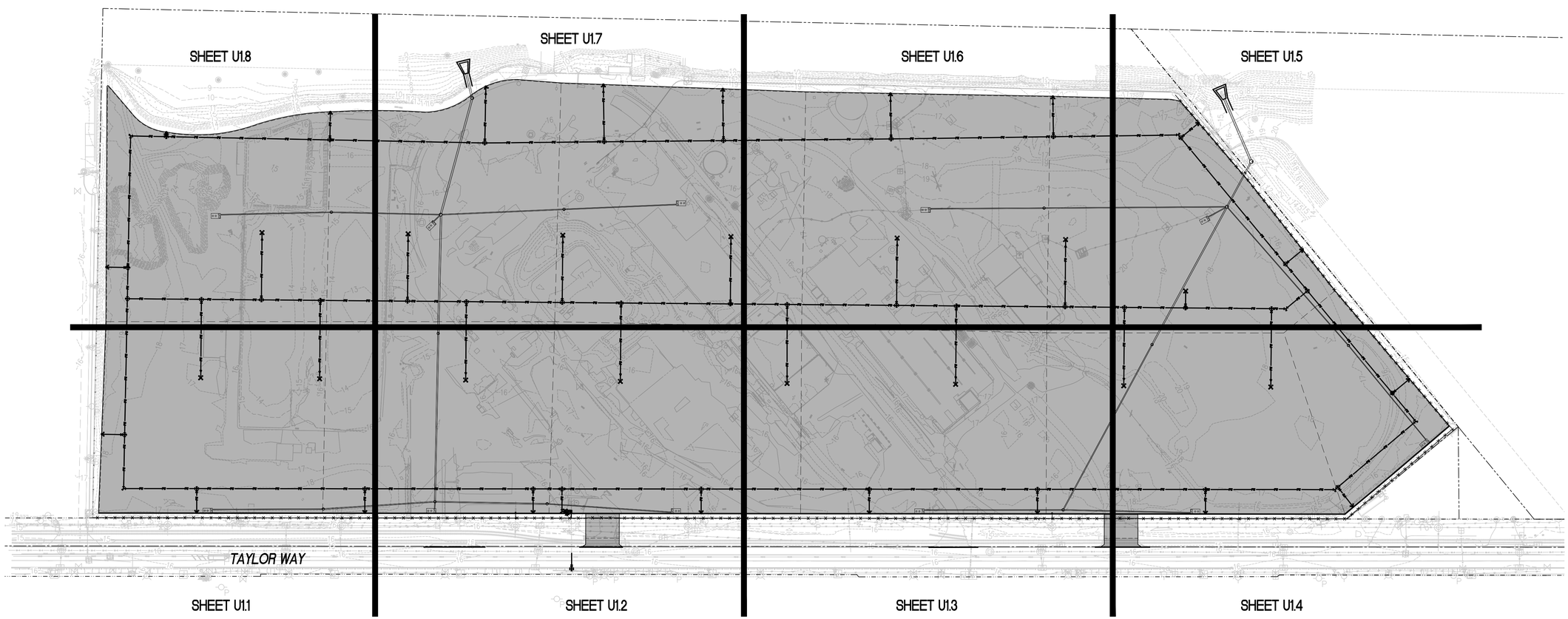
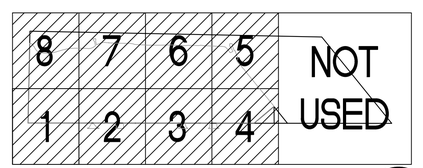


OVERALL UTILITY PLAN
SCALE: 1" = 100'

HORIZONTAL SCALE: 1"=100'
100 0 100 200

NORTH



KEY PLAN
SCALE: NTS

NORTH

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ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

OVERALL UTILITY PLAN

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

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U1.0

SH # 51 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

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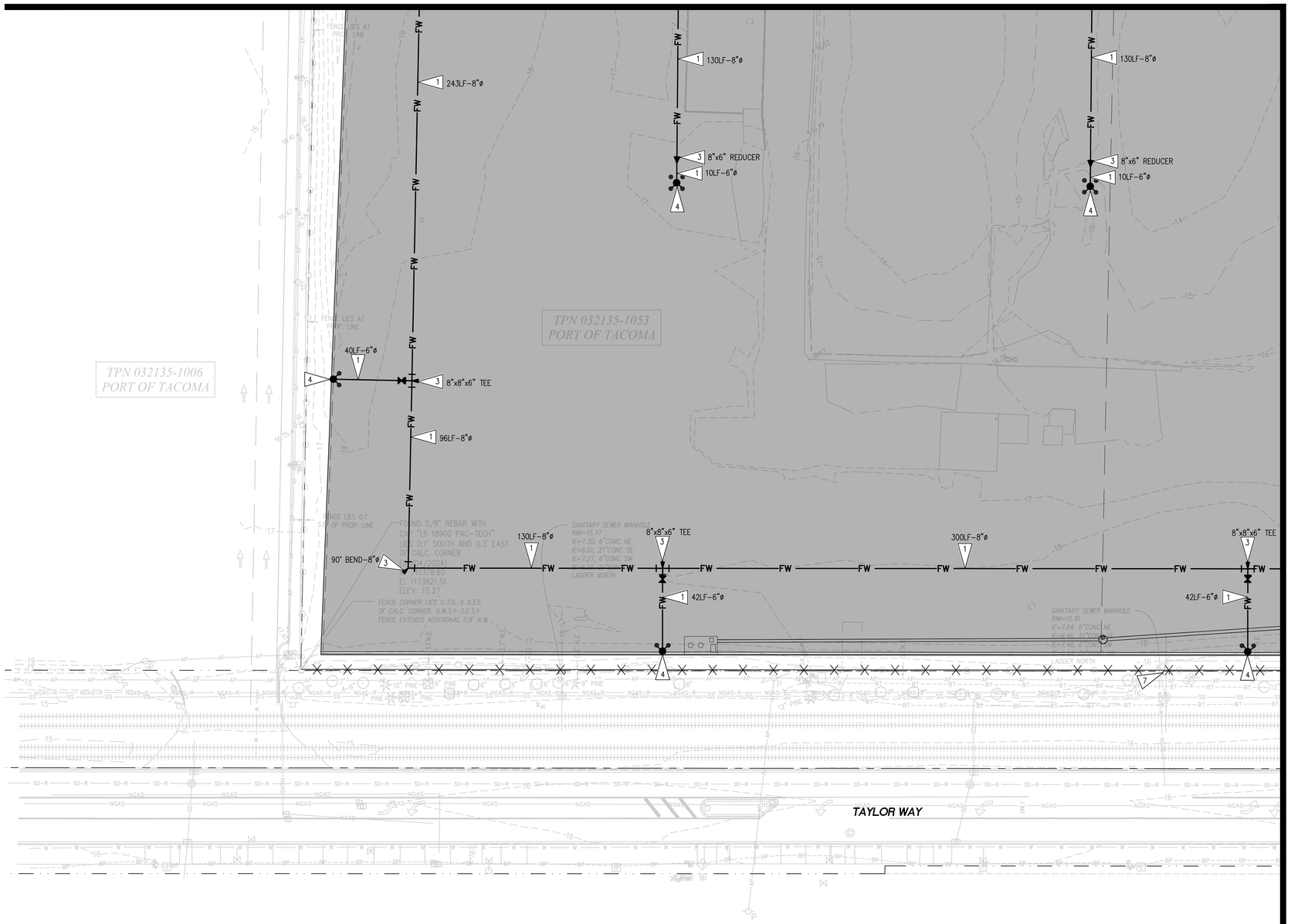
BINDING EDGE

MATCHLINE SEE SHEET U1.8



MATCHLINE SEE SHEET U1.2

LEGEND

PROPOSED FEATURES-

- FW —— FIRE WATER PIPE
- FIRE HYDRANT
- GATE VALVE (IN BOX)
- PIPE REDUCER
- FIXTURE AS NOTED
- DOUBLE DETECTOR CHECK VALVE (DDCV)
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)
- SANITARY SEWER CLEANOUT

GENERAL NOTES

1. SEE SHEET U1.9 FOR UTILITY NOTES AND DETAILS.
2. UNDERGROUND FIRE PROTECTION SYSTEM IS SHOWN AT THE PRELIMINARY LOCATION AND SIZE. FINAL DESIGN TO BE SUBMITTED BY LEVEL "U" FIRE PROTECTION DESIGNER.
3. BACKFLOW PREVENTION SHALL BE FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S BACKFLOW PREVENTION ASSEMBLIES LIST.
4. TACOMA WATER CREWS COMPLETE ALL WORK IN THE ROW ON NEW LINES UP TO AND INCLUDING NEW WATER METERS AT DEVELOPER'S EXPENSE. COORDINATE WITH TACOMA WATER AT (253) 396–3057. CONTRACTOR IS RESPONSIBLE FOR WATER SERVICE INSTALLATION BEHIND THE METER.
5. POWER SERVICE TO THE SITE IS TO BE COORDINATED WITH THE ELECTRICAL DESIGN, BY OTHERS.

KEY NOTES

1. INSTALL LINED DI CLASS 52 FIRE LINE WITH CLASS 53 FLANGES WITH 3' MINIMUM COVER. SIZE AND LENGTH PER PLAN. PIPE BEDDING PER DETAIL 1/C2.9. SEE ALSO GENERAL NOTE 2.
2. EXISTING (ABANDONED) 12" CI WATER CONNECTION. TACOMA WATER TO EXTEND AND CONNECT TO 20"DI WATER MAIN. SEE GENERAL NOTE 4. SEPARATE PERMIT IS REQUIRED FOR INSTALLATION OF UNDERGROUND FIRE SUPPLY LINE
3. INSTALL DI FIXTURE, AS NOTED, WITH THRUST BLOCK PER DETAIL 2/U1.9
4. COORDINATE WITH TACOMA WATER FOR ACCEPTABLE BRAND AND MODEL OF NEW PRIVATE FIRE HYDRANT PRIOR TO INSTALLATION. INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL 1/U1.9. PROTECT FIRE HYDRANT WITH BOLLARDS PER DETAIL 4/U1.9
5. INSTALL DOUBLE CHECK VALVE (DCVA) IN VAULT. SEE GENERAL NOTE 3.
6. EXTEND EXISTING SANITARY SEWER LINE PER DETAIL 1/C2.9 A MIN. 10' INTO THE PROPERTY. PROVIDE SANITARY SEWER CLEANOUT PER DETAIL 5/U1.9 (FOR FUTURE USE).
7. INSTALL SANITARY SEWER CLEANOUT AT PROPERTY LINE PER DETAIL 5/U1.9
8. LOCATE AND CAP EXISTING SIDE SEWER AT PROPERTY LINE
9. INSTALL POST INDICATOR VALVE (12") PER DETAIL 6/U1.9 BOLLARDS PER DETAIL 4/U1.9
10. INSTALL FIRE DEPARTMENT CONNECTION (6") PER DETAIL 7/U1.9

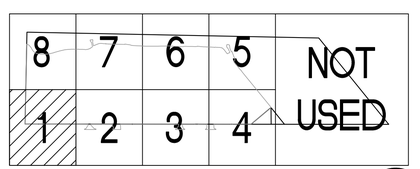
UTILITY PLAN - AREA 1

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH



KEY PLAN

SCALE: NTS

NORTH

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RICHARD C. HILL — STATE OF WASHINGTON — 22870 — REGISTERED PROFESSIONAL ENGINEER
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CHECKED BY	DATE		
BAS	07/19/24		
PROJ. ENGR	DATE		
Jul 17, 2024			
SITCUM PLAZA			
WA 98401-1837			

APPROVED:

DIRECTOR, ENG. DATE

PRINTED BY: srebrob Jul 17, 2024 PORT ADDRESS:ONE SITCUM PLAZA TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
UTILITY PLAN - AREA 1

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

6698
U1.1
SH # 51 OF 72

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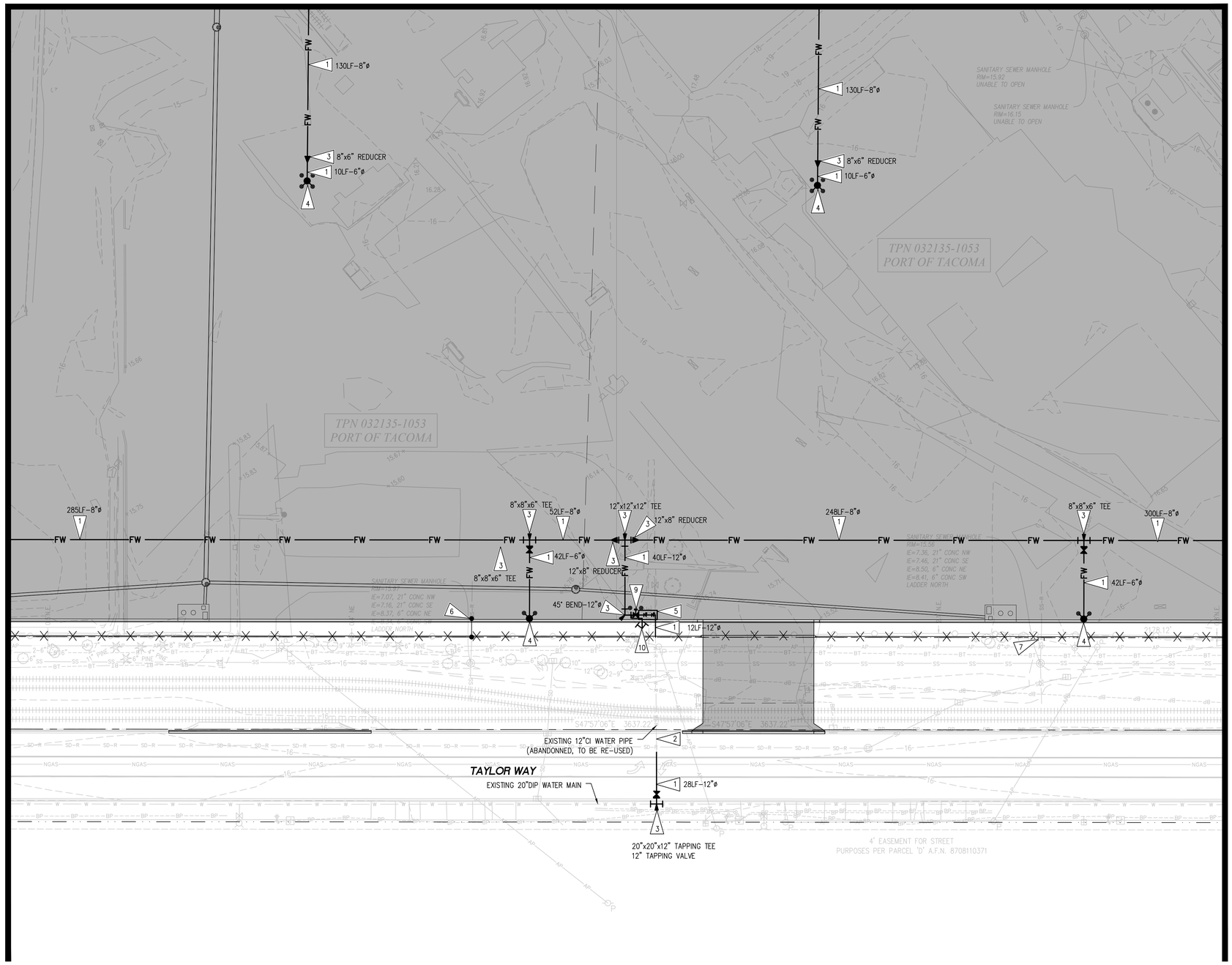
BINDING EDGE

MATCHLINE SEE SHEET U1.1

MATCHLINE SEE SHEET U1.7

MATCHLINE SEE SHEET U1.3



UTILITY PLAN - AREA 2

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- FW — FIRE WATER PIPE
- FIRE HYDRANT
- GATE VALVE (IN BOX)
- PIPE REDUCER
- FIXTURE AS NOTED
- DOUBLE DETECTOR CHECK VALVE (DDCV)
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)
- SANITARY SEWER CLEANOUT

GENERAL NOTES

1. SEE SHEET U1.9 FOR UTILITY NOTES AND DETAILS.
2. UNDERGROUND FIRE PROTECTION SYSTEM IS SHOWN AT THE PRELIMINARY LOCATION AND SIZE. FINAL DESIGN TO BE SUBMITTED BY LEVEL "U" FIRE PROTECTION DESIGNER.
3. BACKFLOW PREVENTION SHALL BE FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S BACKFLOW PREVENTION ASSEMBLIES LIST.
4. TACOMA WATER CREWS COMPLETE ALL WORK IN THE ROW ON NEW LINES UP TO AND INCLUDING NEW WATER METERS AT DEVELOPER'S EXPENSE. COORDINATE WITH TACOMA WATER AT (253) 396–3057. CONTRACTOR IS RESPONSIBLE FOR WATER SERVICE INSTALLATION BEHIND THE METER.
5. POWER SERVICE TO THE SITE IS TO BE COORDINATED WITH THE ELECTRICAL DESIGN, BY OTHERS.

KEY NOTES

1. INSTALL LINED DI CLASS 52 FIRE LINE WITH CLASS 53 FLANGES WITH 3' MINIMUM COVER. SIZE AND LENGTH PER PLAN. PIPE BEDDING PER DETAIL 1/C2.9. SEE ALSO GENERAL NOTE 2.
2. EXISTING (ABANDONED) 12" CI WATER CONNECTION. TACOMA WATER TO EXTEND AND CONNECT TO 20"DI WATER MAIN. SEE GENERAL NOTE 4. SEPARATE PERMIT IS REQUIRED FOR INSTALLATION OF UNDERGROUND FIRE SUPPLY LINE
3. INSTALL DI FIXTURE, AS NOTED, WITH THRUST BLOCK PER DETAIL 2/U1.9
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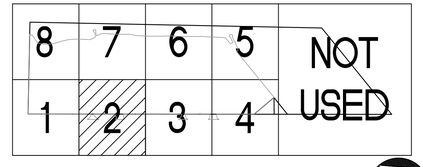
10. INSTALL FIRE DEPARTMENT CONNECTION (6") PER DETAIL 7/U1.9



KEY PLAN

SCALE: NTS

NORTH

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BAS	07/19/24		
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE

PRINTED BY: srebrob Jul 17, 2024

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

UTILITY PLAN - AREA 2

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698

U1.2

SH # 52 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

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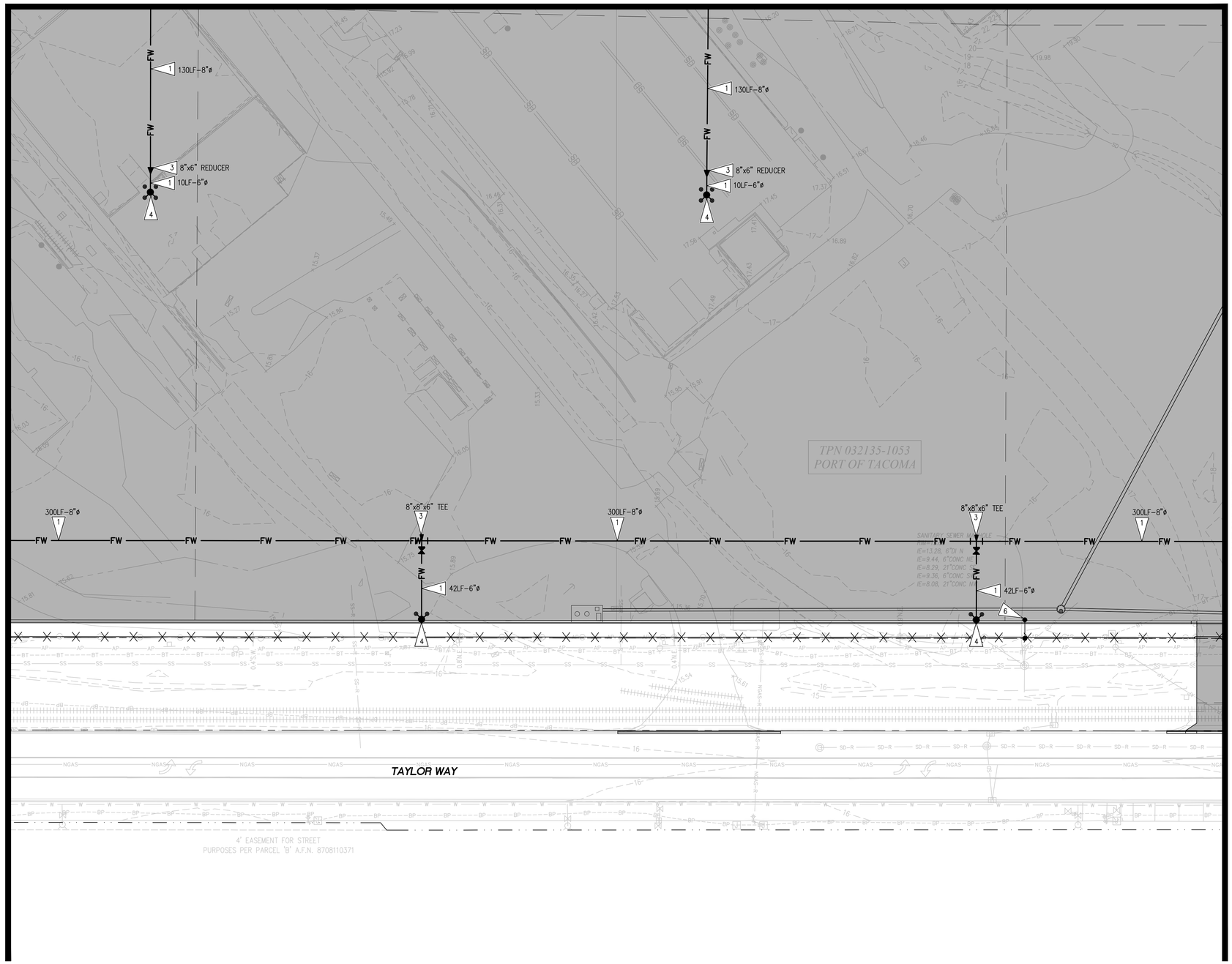
BINDING EDGE

MATCHLINE SEE SHEET U1.2

MATCHLINE SEE SHEET U1.6



MATCHLINE SEE SHEET U1.4

LEGEND

PROPOSED FEATURES-

- FW —— FIRE WATER PIPE
- FIRE HYDRANT
- GATE VALVE (IN BOX)
- PIPE REDUCER
- FIXTURE AS NOTED
- DOUBLE DETECTOR CHECK VALVE (DDCV)
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)
- SANITARY SEWER CLEANOUT

GENERAL NOTES

1. SEE SHEET U1.9 FOR UTILITY NOTES AND DETAILS.
2. UNDERGROUND FIRE PROTECTION SYSTEM IS SHOWN AT THE PRELIMINARY LOCATION AND SIZE. FINAL DESIGN TO BE SUBMITTED BY LEVEL "U" FIRE PROTECTION DESIGNER.
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4. TACOMA WATER CREWS COMPLETE ALL WORK IN THE ROW ON NEW LINES UP TO AND INCLUDING NEW WATER METERS AT DEVELOPER'S EXPENSE. COORDINATE WITH TACOMA WATER AT (253) 396–3057. CONTRACTOR IS RESPONSIBLE FOR WATER SERVICE INSTALLATION BEHIND THE METER.
5. POWER SERVICE TO THE SITE IS TO BE COORDINATED WITH THE ELECTRICAL DESIGN, BY OTHERS.

KEY NOTES

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9. INSTALL POST INDICATOR VALVE (12") PER DETAIL 6/U1.9 BOLLARDS PER DETAIL 4/U1.9
10. INSTALL FIRE DEPARTMENT CONNECTION (6") PER DETAIL 7/U1.9

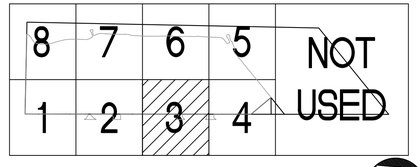
UTILITY PLAN - AREA 3

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH



KEY PLAN

SCALE: NTS

NORTH

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RICHARD C. HANDY — STATE OF WASHINGTON — 23978 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

APPROVED:	
DIRECTOR_ENG. DATE	
PRINTED BY: srebrob Jul 17, 2024	
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TACOMA, WA 98401–1837	

RCH	07/19/24
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BAS	07/19/24
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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
UTILITY PLAN - AREA 3

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698
U1.3
SH # 53 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

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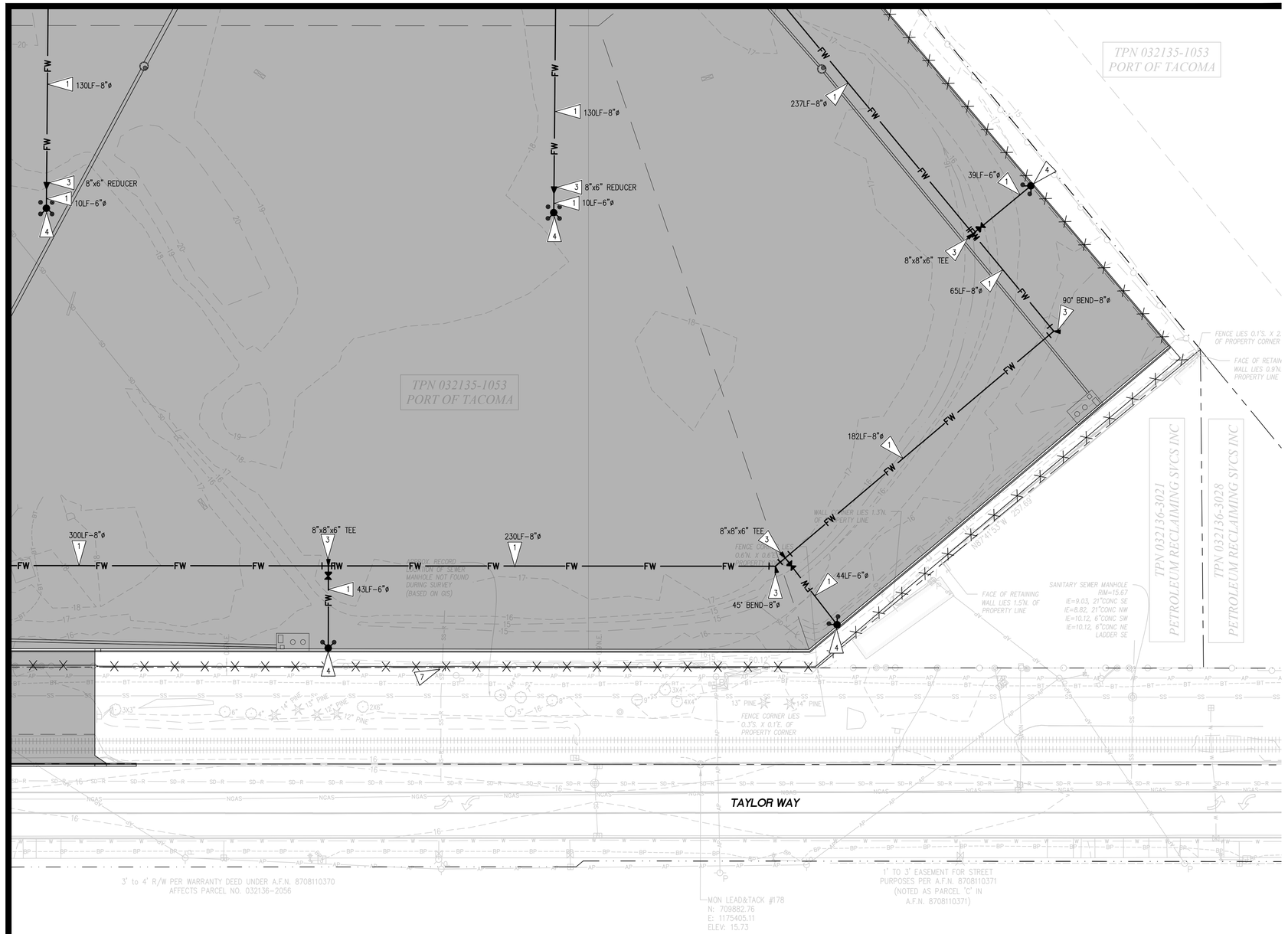
BINDING EDGE

MATCHLINE SEE SHEET U1.3

MATCHLINE SEE SHEET U1.5



LEGEND

PROPOSED FEATURES-

- FW — FIRE WATER PIPE
- FIRE HYDRANT
- GATE VALVE (IN BOX)
- PIPE REDUCER
- FIXTURE AS NOTED
- DOUBLE DETECTOR CHECK VALVE (DDCV)
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)
- SANITARY SEWER CLEANOUT

GENERAL NOTES

1. SEE SHEET U1.9 FOR UTILITY NOTES AND DETAILS.
2. UNDERGROUND FIRE PROTECTION SYSTEM IS SHOWN AT THE PRELIMINARY LOCATION AND SIZE. FINAL DESIGN TO BE SUBMITTED BY LEVEL "U" FIRE PROTECTION DESIGNER.
3. BACKFLOW PREVENTION SHALL BE FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S BACKFLOW PREVENTION ASSEMBLIES LIST.
4. TACOMA WATER CREWS COMPLETE ALL WORK IN THE ROW ON NEW LINES UP TO AND INCLUDING NEW WATER METERS AT DEVELOPER'S EXPENSE. COORDINATE WITH TACOMA WATER AT (253) 396–3057. CONTRACTOR IS RESPONSIBLE FOR WATER SERVICE INSTALLATION BEHIND THE METER.
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KEY NOTES

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2. EXISTING (ABANDONED) 12" CI WATER CONNECTION. TACOMA WATER TO EXTEND AND CONNECT TO 20"DI WATER MAIN. SEE GENERAL NOTE 4. SEPARATE PERMIT IS REQUIRED FOR INSTALLATION OF UNDERGROUND FIRE SUPPLY LINE
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7. INSTALL SANITARY SEWER CLEANOUT AT PROPERTY LINE PER DETAIL 5/U1.9
8. LOCATE AND CAP EXISTING SIDE SEWER AT PROPERTY LINE
9. INSTALL POST INDICATOR VALVE (12") PER DETAIL 6/U1.9 BOLLARDS PER DETAIL 4/U1.9
10. INSTALL FIRE DEPARTMENT CONNECTION (6") PER DETAIL 7/U1.9

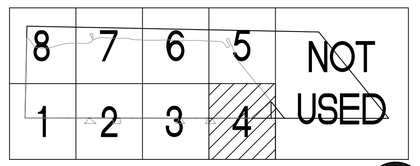
UTILITY PLAN - AREA 4

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH



KEY PLAN

SCALE: NTS

NORTH

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APPROVED:

DIRECTOR, ENG. DATE

PRINTED BY: srebrob Jul 17, 2024

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
UTILITY PLAN - AREA 4

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

6698
U1.4
SH # 54 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

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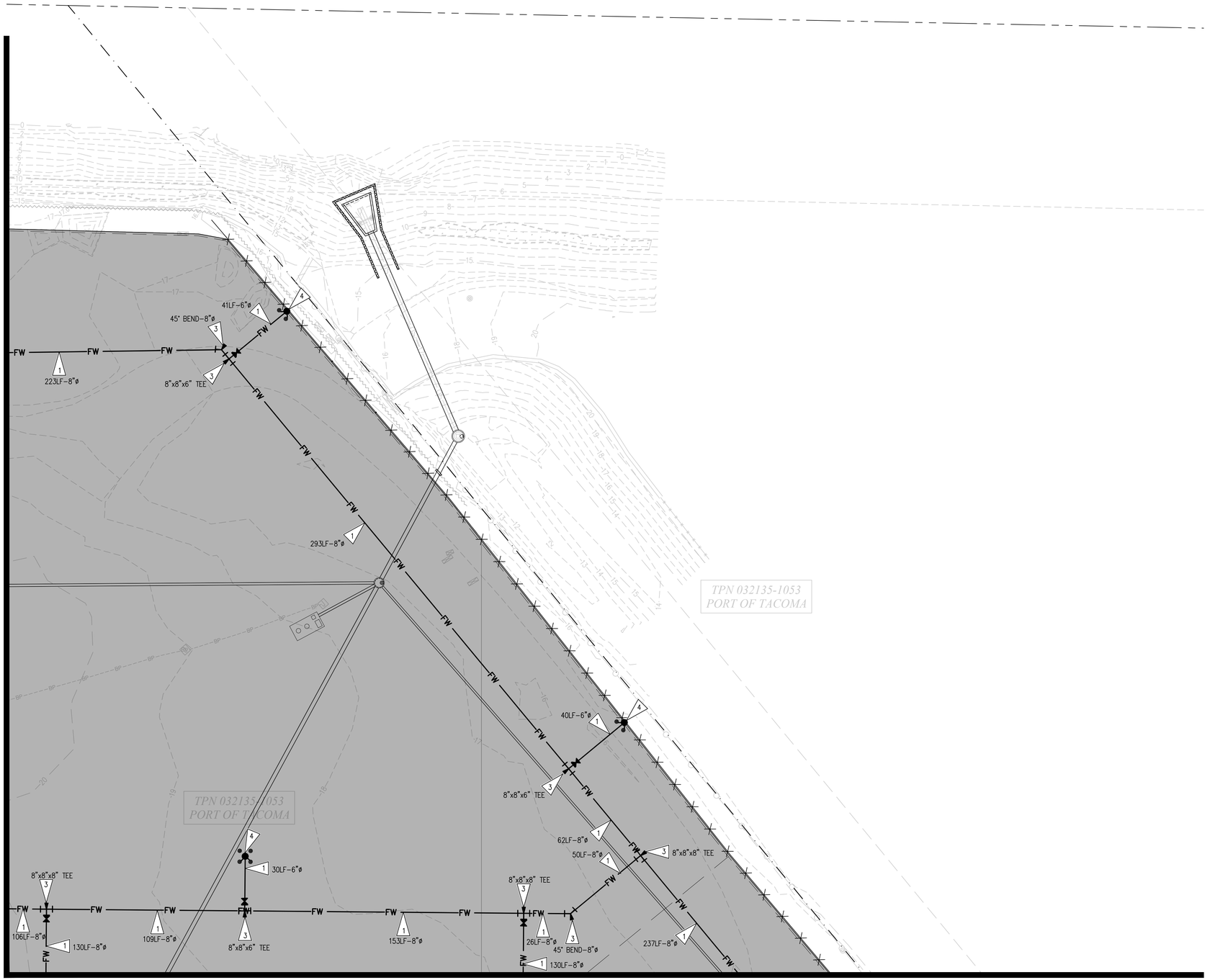
BINDING EDGE

MATCHLINE SEE SHEET U1.6



MATCHLINE SEE SHEET U1.4

UTILITY PLAN - AREA 5

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- FW — FIRE WATER PIPE
- FIRE HYDRANT
- GATE VALVE (IN BOX)
- PIPE REDUCER
- FIXTURE AS NOTED
- DOUBLE DETECTOR CHECK VALVE (DDCV)
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)
- SANITARY SEWER CLEANOUT

GENERAL NOTES

1. SEE SHEET U1.9 FOR UTILITY NOTES AND DETAILS.
2. UNDERGROUND FIRE PROTECTION SYSTEM IS SHOWN AT THE PRELIMINARY LOCATION AND SIZE. FINAL DESIGN TO BE SUBMITTED BY LEVEL "U" FIRE PROTECTION DESIGNER.
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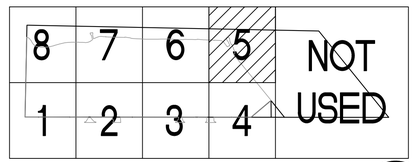

KEY PLAN

SCALE: NTS

NORTH

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RICHARD C. HANDY — STATE OF WASHINGTON — 21615 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY — NOT FOR CONSTRUCTION

APPROVED:

DIRECTOR ENG. DATE

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PROJ. ENGR	DATE
PRINTED BY:	srebrob Jul 17, 2024
PORT ADDRESS:	ONE SITCUM PLAZA
	TACOMA, WA 98401-1837
DRAWING SCALE:	AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
UTILITY PLAN - AREA 5

TOWNSHIP: 21 NORTH	RANGE: 3 EAST | SECTION: 36
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053	

6698
U1.5
SH # 55 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

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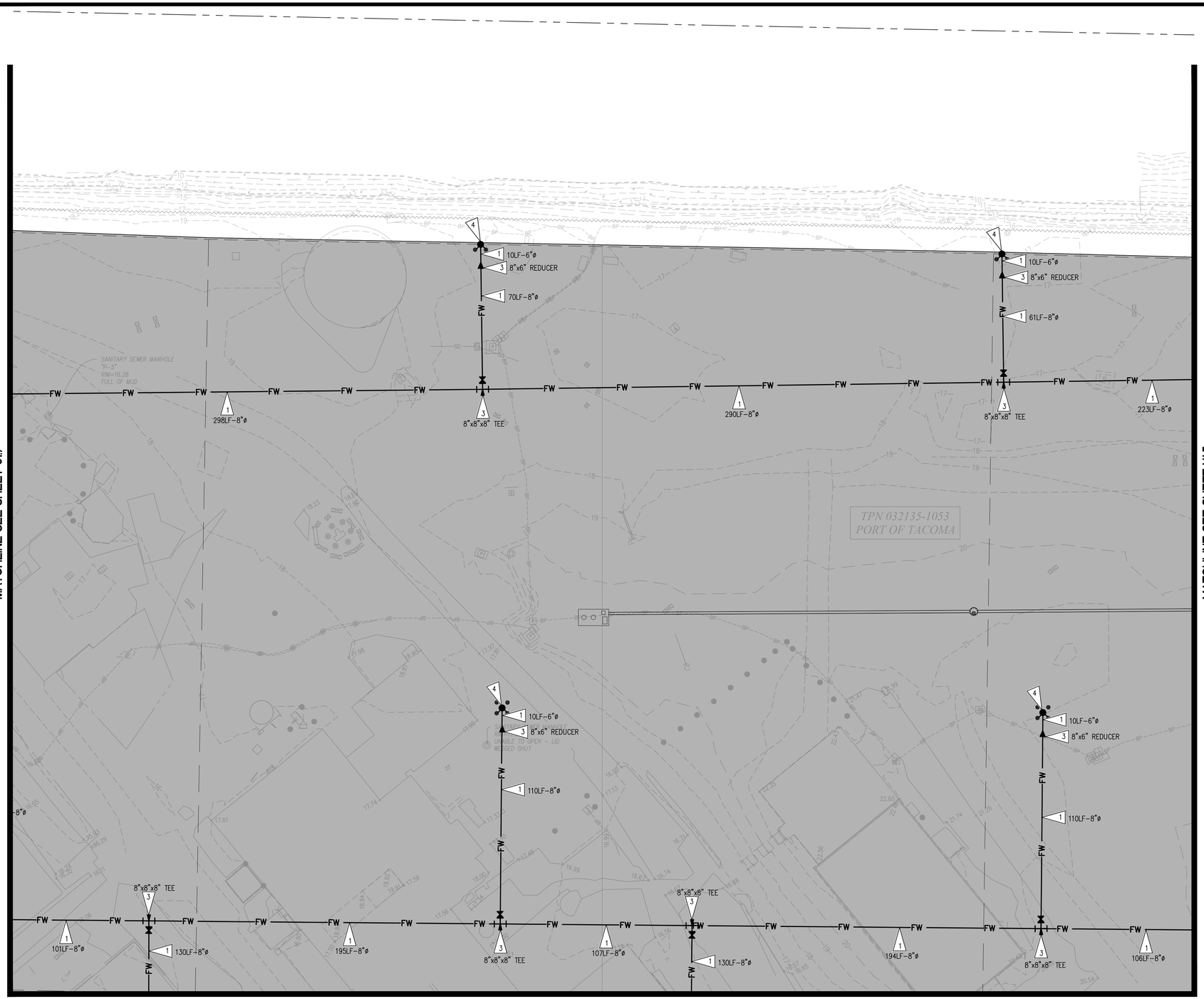
BINDING EDGE

MATCHLINE SEE SHEET U1.7



MATCHLINE SEE SHEET U1.3

MATCHLINE SEE SHEET U1.5

LEGEND

PROPOSED FEATURES-

- FW — FIRE WATER PIPE
- FIRE HYDRANT
- GATE VALVE (IN BOX)
- PIPE REDUCER
- FIXTURE AS NOTED
- DOUBLE DETECTOR CHECK VALVE (DDCV)
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)
- SANITARY SEWER CLEANOUT

GENERAL NOTES

1. SEE SHEET U1.9 FOR UTILITY NOTES AND DETAILS.
2. UNDERGROUND FIRE PROTECTION SYSTEM IS SHOWN AT THE PRELIMINARY LOCATION AND SIZE. FINAL DESIGN TO BE SUBMITTED BY LEVEL "U" FIRE PROTECTION DESIGNER.
3. BACKFLOW PREVENTION SHALL BE FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S BACKFLOW PREVENTION ASSEMBLIES LIST.
4. TACOMA WATER CREWS COMPLETE ALL WORK IN THE ROW ON NEW LINES UP TO AND INCLUDING NEW WATER METERS AT DEVELOPER'S EXPENSE. COORDINATE WITH TACOMA WATER AT (253) 396-3057. CONTRACTOR IS RESPONSIBLE FOR WATER SERVICE INSTALLATION BEHIND THE METER.
5. POWER SERVICE TO THE SITE IS TO BE COORDINATED WITH THE ELECTRICAL DESIGN, BY OTHERS.

KEY NOTES

1. INSTALL LINED DI CLASS 52 FIRE LINE WITH CLASS 53 FLANGES WITH 3' MINIMUM COVER. SIZE AND LENGTH PER PLAN. PIPE BEDDING PER DETAIL 1/C2.9. SEE ALSO GENERAL NOTE 2.
2. EXISTING (ABANDONED) 12" CI WATER CONNECTION. TACOMA WATER TO EXTEND AND CONNECT TO 20"DI WATER MAIN. SEE GENERAL NOTE 4. SEPARATE PERMIT IS REQUIRED FOR INSTALLATION OF UNDERGROUND FIRE SUPPLY LINE
3. INSTALL DI FIXTURE, AS NOTED, WITH THRUST BLOCK PER DETAIL 2/U1.9
4. COORDINATE WITH TACOMA WATER FOR ACCEPTABLE BRAND AND MODEL OF NEW PRIVATE FIRE HYDRANT PRIOR TO INSTALLATION. INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL 1/U1.9. PROTECT FIRE HYDRANT WITH BOLLARDS PER DETAIL 4/U1.9
5. INSTALL DOUBLE CHECK VALVE (DCVA) IN VAULT. SEE GENERAL NOTE 3.
6. EXTEND EXISTING SANITARY SEWER LINE PER DETAIL 1/C2.9 A MIN. 10' INTO THE PROPERTY. PROVIDE SANITARY SEWER CLEANOUT PER DETAIL 5/U1.9 (FOR FUTURE USE).
7. INSTALL SANITARY SEWER CLEANOUT AT PROPERTY LINE PER DETAIL 5/U1.9
8. LOCATE AND CAP EXISTING SIDE SEWER AT PROPERTY LINE
9. INSTALL POST INDICATOR VALVE (12") PER DETAIL 6/U1.9 BOLLARDS PER DETAIL 4/U1.9
10. INSTALL FIRE DEPARTMENT CONNECTION (6") PER DETAIL 7/U1.9

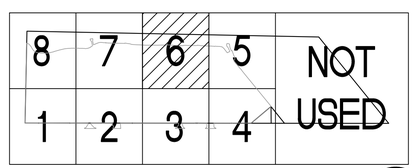
UTILITY PLAN - AREA 6

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH



KEY PLAN

SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HAND — STATE OF WASHINGTON — 22810 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

APPROVED:			
RCH	07/19/24		
CHECKED BY	DATE		
BAS	07/19/24		
DIRECTOR_ENG.	DATE	PROJ. ENGR	DATE
PRINTED BY: srebrob Jul 17, 2024			
PORT ADDRESS:ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
DRAWING SCALE: AS NOTED			

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
UTILITY PLAN - AREA 6

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053			

6698
U1.6
SH # 56 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

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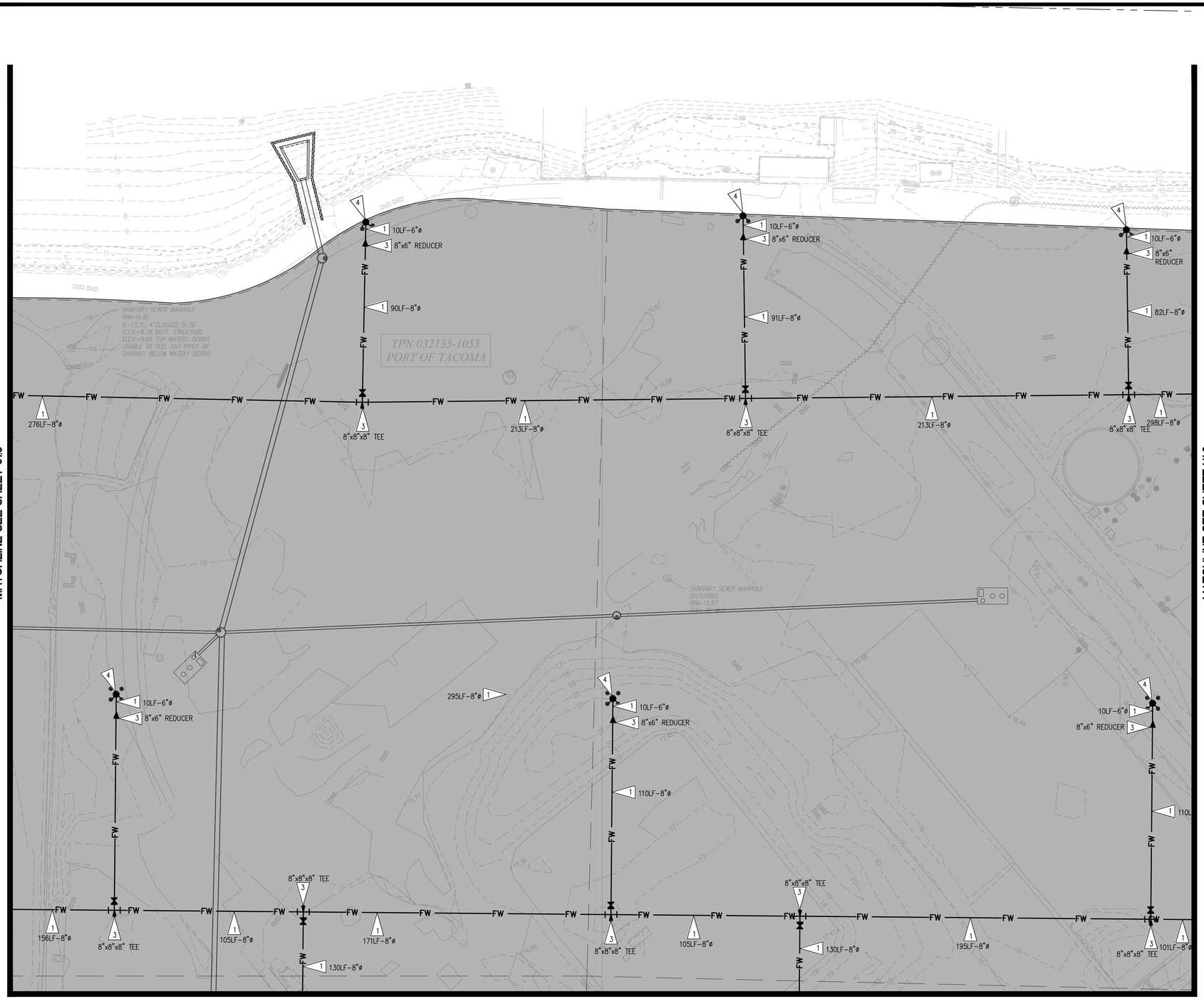
BINDING EDGE

MATCHLINE SEE SHEET U1.8



MATCHLINE SEE SHEET U1.2

MATCHLINE SEE SHEET U1.6

UTILITY PLAN - AREA 7

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

PROPOSED FEATURES-

- FW — FIRE WATER PIPE
- FIRE HYDRANT
- GATE VALVE (IN BOX)
- PIPE REDUCER
- FIXTURE AS NOTED
- DOUBLE DETECTOR CHECK VALVE (DDCV)
- POST INDICATOR VALVE (PIV)
- FIRE DEPARTMENT CONNECTION (FDC)
- SANITARY SEWER CLEANOUT

GENERAL NOTES

1. SEE SHEET U1.9 FOR UTILITY NOTES AND DETAILS.
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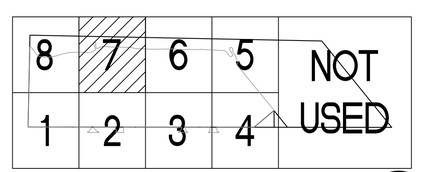

KEY PLAN

SCALE: NTS

NORTH

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MARK:	REVISION:	BY:	APPR:	DATE:

RICHARD C. HAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

CHECKED BY	RCH	07/19/24	DATE
PROJ. ENGR	BAS	07/19/24	DATE
DIRECTOR ENG.			DATE

APPROVED:

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
UTILITY PLAN - AREA 7

PRINTED BY:	srebrob Jul 17, 2024
PORT ADDRESS:	ONE SITCUM PLAZA
	TACOMA, WA 98401-1837
DRAWING SCALE:	AS NOTED
TOWNSHIP: 21 NORTH	RANGE: 3 EAST | SECTION: 36
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053	

6698
U1.7
SH # 57 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

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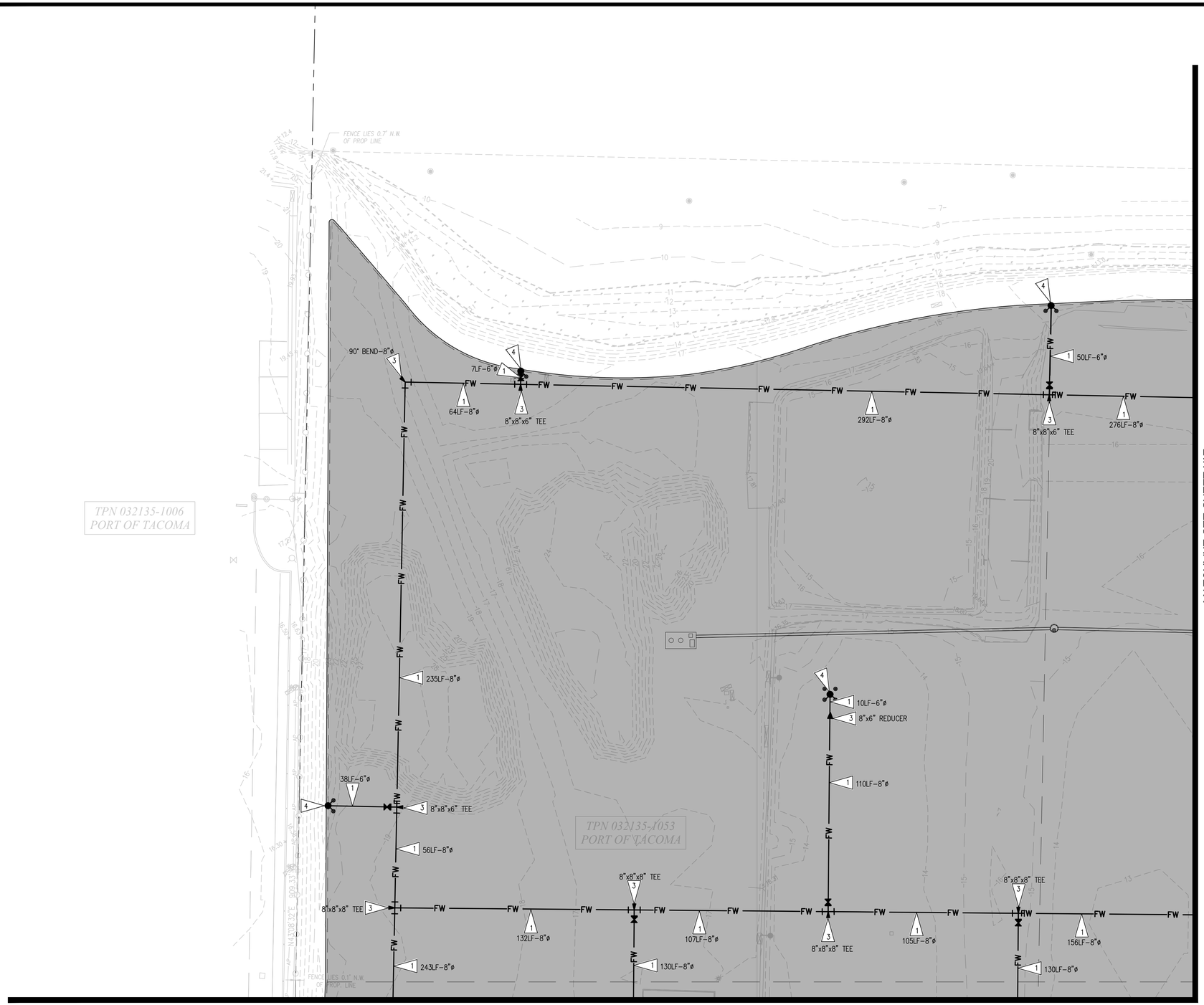

UTILITY PLAN - AREA 8

SCALE: 1" = 30'

HORIZONTAL SCALE: 1"=30'

30 0 30 60

NORTH

LEGEND

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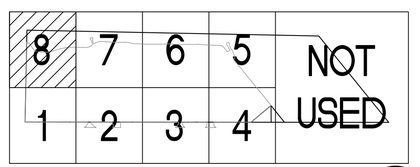

KEY PLAN

SCALE: NTS

NORTH

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PRELIMINARY — NOT FOR CONSTRUCTION — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — RICHARD C. HANDY — 36736

		DATE
DESIGNED BY	RCH	07/19/24
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PRINTED BY:	srebrob Jul 17, 2024	
PORT ADDRESS:	ONE SITCUM PLAZA	
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DRAWING SCALE:	AS NOTED	

APPROVED:

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING

UTILITY PLAN - AREA 8

TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053			

6698

U1.8

SH # 58 OF 72

CONT/CONS: 072075

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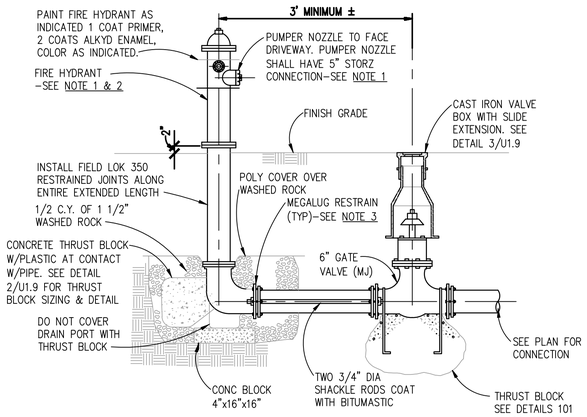
BINDING EDGE

NOTES:

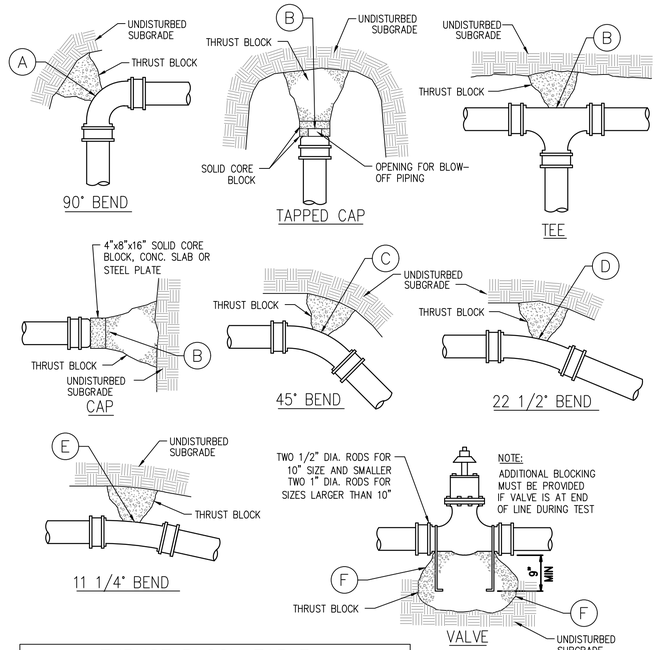
1. STORZ COUPLINGS MUST BE PROVIDED ON HYDRANTS INSTALLED, SIZE AND TYPE OF THREADS ON PUMPER NOZZLE SHALL BE 4–1/2" NATIONAL STANDARD THROUGHOUT PIERCE COUNTY AND IN COMPLIANCE WITH LOCAL FIRE DEPARTMENTS.
2. MINIMUM HYDRANT BURY SHALL BE (4) FOUR FEET. ACTUAL HYDRANT BURY SHALL BE DETERMINED AFTER WATER MAIN ALIGNMENT AND GRADES HAVE BEEN STAKED. M.J. PIPE OR RODS ARE REQUIRED BETWEEN HYDRANT AND GATE VALVE WHERE DISTANCE IS GREATER THAN ONE PIPE LENGTH.
3. MEGALUG SHALL BE EBBA IRON, INC MECHANICAL JOINT RESTRAINT, #1100 SERIES OR APPROVED EQUAL.



1 U1.1-8

FIRE HYDRANT ASSEMBLY

SCALE: NTS



THRUST BLOCK TABLE

PIPE SIZE (INCHES)	TEST PRESSURE (PSI)	MIN. BEARING AGAINST UNDISTURBED SOIL(SQ.FT.)					
		(A)	(B)	(C)	(D)	(E)	(F)
3 OR 4	200	3	2	1	NONE	NONE	NONE
6	200	5	4	3	1	NONE	NONE
8	200	9	6	5	3	1	2
10	200	14	10	7	4	2	3
12	200	19	14	10	5	3	4

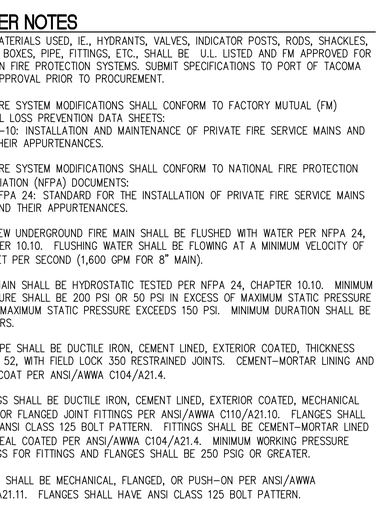
THRUST BLOCK NOTES:

1. THRUST BLOCK SIZED PER NFPA24, LATEST EDITION.
2. SQUARE FEET OF CONCRETE THRUST–BLOCK AREA BASED ON SAFE SOIL BEARING LOAD OF 3000 POUNDS PER SQUARE FOOT AND WATER PRESSURE OF 200 PSI.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/2 SQUARE FOOT BEARING AGAINST THE FITTING.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
5. IN ADDITION TO THRUST BLOCKS, SECURE ALL JOINTS WITH RETAINER GLANDS, TIE RODS, OR FLANGE FITTINGS.
6. NEW CONCRETE FOR THRUST BLOCKS SHALL BE 3000 psi @ 28 DAYS

2 U1.1-8

HORIZONTAL BENDS THRUST BLOCK DETAILS

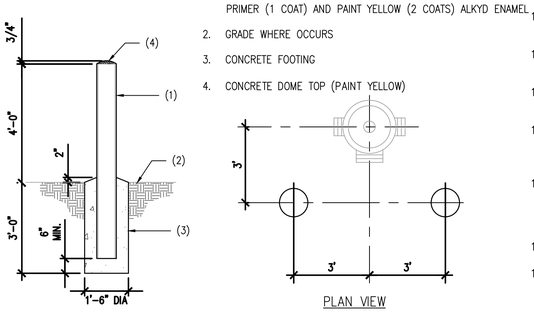
SCALE: NTS



3 U1.1-8

VALVE BOX INSTALLATION

SCALE: NTS



NOTES:

1. 6" DIA. SCHEDULE 40 STEEL PIPE FILLED WITH CONCRETE. PRIMER (1 COAT) AND PAINT YELLOW (2 COATS) ALKYD ENAMEL
2. GRADE WHERE OCCURS
3. CONCRETE FOOTING
4. CONCRETE DOME TOP (PAINT YELLOW)

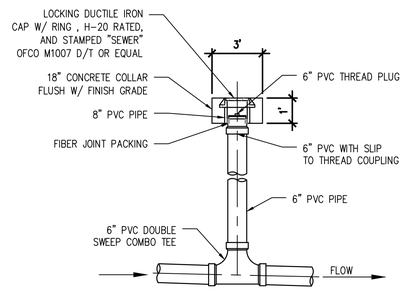
4 U1.1-8

FIRE HYDRANT BOLLARD DETAIL

SCALE: NTS

FIRE WATER NOTES

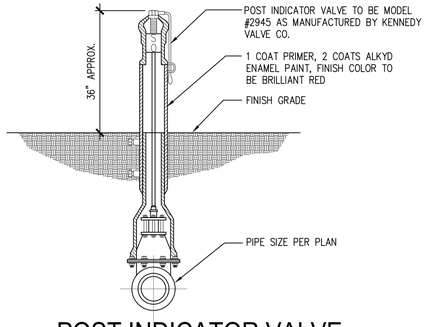
1. ALL MATERIALS USED, IE., HYDRANTS, VALVES, INDICATOR POSTS, RODS, SHACKLES, VALVE BOXES, PIPE, FITTINGS, ETC., SHALL BE U.L. LISTED AND FM APPROVED FOR USE ON FIRE PROTECTION SYSTEMS. SUBMIT SPECIFICATIONS TO PORT OF TACOMA FOR APPROVAL PRIOR TO PROCUREMENT.
2. ALL FIRE SYSTEM MODIFICATIONS SHALL CONFORM TO FACTORY MUTUAL (FM) GLOBAL LOSS PREVENTION DATA SHEETS:
   2.1. 3–10: INSTALLATION AND MAINTENANCE OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
3. ALL FIRE SYSTEM MODIFICATIONS SHALL CONFORM TO NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) DOCUMENTS:
   3.1. NFPA 24: STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
4. ALL NEW UNDERGROUND FIRE MAIN SHALL BE FLUSHED WITH WATER PER NFPA 24, CHAPTER 10.10. FLUSHING WATER SHALL BE FLOWING AT A MINIMUM VELOCITY OF 10 FEET PER SECOND (1,600 GPM FOR 8" MAIN).
5. FIRE MAIN SHALL BE HYDROSTATIC TESTED PER NFPA 24, CHAPTER 10.10. MINIMUM PRESSURE SHALL BE 200 PSI OR 50 PSI IN EXCESS OF MAXIMUM STATIC PRESSURE WHEN MAXIMUM STATIC PRESSURE EXCEEDS 150 PSI. MINIMUM DURATION SHALL BE 2 HOURS.
6. ALL PIPE SHALL BE DUCTILE IRON, CEMENT LINED, EXTERIOR COATED, THICKNESS CLASS 52, WITH FIELD LOCK 350 RESTRAINED JOINTS. CEMENT–MORTAR LINING AND SEAL COAT PER ANSI/AWWA C104/A21.4.
7. FITTINGS SHALL BE DUCTILE IRON, CEMENT LINED, EXTERIOR COATED, MECHANICAL JOINT OR FLANGED JOINT FITTINGS PER ANSI/AWWA C110/A21.10. FLANGES SHALL HAVE ANSI CLASS 125 BOLT PATTERN. FITTINGS SHALL BE CEMENT–MORTAR LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4. MINIMUM WORKING PRESSURE RATINGS FOR FITTINGS AND FLANGES SHALL BE 250 PSIG OR GREATER.
8. JOINTS SHALL BE MECHANICAL, FLANGED, OR PUSH–ON PER ANSI/AWWA C111/A21.11. FLANGES SHALL HAVE ANSI CLASS 125 BOLT PATTERN.
9. FOR MECHANICAL JOINTS, BOLTS AND NUTS SHALL COMPLY WITH ANSI/AWWA C111/A21.11 AND ANSI/AWWA C110/A21.10. OTHER BOLTS SHALL BE ALLOY STEEL STUD BOLTS PER ASTM A193, GRADE B7, WITH HEAVY HEX NUTS PER ASTM A194, GRADE 2H.
10. GASKETS FOR MECHANICAL AND PUSH–ON JOINTS SHALL BE VULCANIZED NATURAL OR SYNTHETIC RUBBER PER ANSI/AWWA C111/A21.11.
11. GASKETS FOR FLANGED JOINTS SHALL BE FULL FACE CLASS 150, 1/8 INCH THICK, NON–ASBESTOS, NITRITE BINDER, GARLOCK BLUE–GARD 3000 OR APPROVED EQUAL.
12. VALVES, HYDRANTS, AND SPECIALTY FITTINGS FOR FIRE PROTECTION SERVICE SHALL BE UL LISTED AND FM APPROVED.
13. UNLESS OTHERWISE SPECIFIED, VALVES SHALL HAVE A MINIMUM PRESSURE RATING OF 175 PSIG.
14. GATE VALVES SHALL BE ANSI CLASS 125 FLANGED, CAST IRON BODY PER ASTM A126 CLASS B, BRONZE TRIM, OS&Y, BOLTED BONNET. CRANE 465–1/2, POWELL 1793, OR APPROVED EQUAL.
15. HYDRANT SERVICE VALVES SHALL BE FM APPROVED, UL LISTED, 5–1/4 INCH MAIN VALVE, IRON BODY, RESILIENT SEAT GATE VALVE, WITH 2 INCH SQUARE WRENCH NUT, 200 PSIG WORKING PRESSURE, CLASS 125 FLANGES, WITH OPERATING WRENCH AND SUITABLE ADJUSTABLE CURB BOX.
16. AT BRANCH CONNECTIONS, USE FITTINGS.
17. ALL FIRE HYDRANTS SHALL BE CAST IRON BODY, 5 1/4" 3–WAY BARREL WITH ONE 5" AND TWO 2– ½" PUMPER/HOSE CONNECTIONS, WITH BOTTOM SEAT RING AND DRAIN BARREL, 6" MECHANICAL JOINT OUTLET, 175 PSI WORKING PRESSURE, COMPRESSION TYPE WITH DRAIN VALVE. ON HYDRANT'S 5" OUTLET PROVIDE STORTZ FITTING WITH TETHERED BLIND CAP.
18. COVER ALL UNDERGROUND NUT/BOLT ASSEMBLIES WITH BITUMASTIC. PROTECT NUT/BOLT ASSEMBLIES TO PREVENT THEM FROM BEING COVERED WITH CONCRETE.
19. FIRE MAINS AND RELATED EQUIPMENT SHALL COMPLY WITH NFPA 24 AND SHALL BE BURIED TO A MINIMUM DEPTH OF 36".
20. PIPE INSTALLATION SHALL CONFORM TO AWWA C600, SECTION 3.3; JOINT ASSEMBLY SHALL CONFORM TO AWWA C600, SECTION 3.4; VALVE INSTALLATION SHALL CONFORM TO AWWA C600, SECTION 3.6; HYDRANT INSTALLATION SHALL CONFORM TO AWWA C600, SECTION 3.7.



5 U1.1-4

SANITARY SEWER CLEANOUT

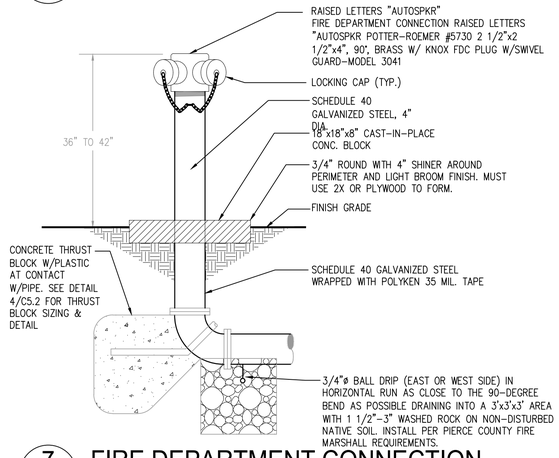
SCALE: NTS



6 U1.1-2

POST INDICATOR VALVE

SCALE: NTS



7 U1.2

FIRE DEPARTMENT CONNECTION

SCALE: NTS

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PHONE: (253) 474-9449 | FAX: (253) 474-0153
WWW.SITTSHILL.COM

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RICHARD C. HAND — STATE OF WASHINGTON — 20780 — REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY — NOT FOR CONSTRUCTION

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DRAWN BY	srebrob	Jul 17, 2024	DATE

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PRINTED BY: srebrob
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TACOMA, WA 98401–1837

ARKEMA MANUFACTURING AREA

INTERIM ACTION - SITE CAPPING
UTILITY DETAILS AND NOTES

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT–HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

SECTION: 36

6698
U1.9
SH # 59 OF 72

BINDING EDGE

GENERAL NOTES:

1. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO CIVIL AND STRUCTURAL DRAWINGS TO COORDINATE THE EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT, STRUCTURES, VAULTS, CONDUITS, ETC. NOTIFY ENGINEER IN THE EVENT OF A CONFLICT.

2. SEE DRAWING EXX FOR CONDUIT AND CONDUCTOR SCHEDULE. NOT ALL CONDUIT AND CONDUCTORS ARE INDICATED ON THE SCHEDULES. SEE SITE PLANS AND DETAILS FOR ADDITIONAL CONDUIT AND CONDUCTOR REQUIREMENTS. METALLIC CONDUITS, COUPLINGS AND JOINTS OF METALLIC CONDUITS EMBEDDED IN CONCRETE, CDF, EARTH OR ASPHALT SHALL BE 1/2 LAP TAPED OR OTHERWISE MADE WATERTIGHT TO PREVENT INTRUSION OF MORTAR, WATER OR OTHER MATERIALS. TEST CONDUIT FOR ABSENCE OF ANY BLOCKAGE PRIOR TO AND WITHIN 24 HOURS OF COMPLETING A CONCRETE OR CDF POUR OR ASPHALT PAVING. ALL METAL CONDUIT EXPOSED ABOVE GRADE SHALL BE PVC COATED OR PRIMED AND PAINTED TWO(2) COATS BLACK OVER GALVANIZE.

3. CONTRACTOR SHALL INCLUDE IN THE BID ALL COSTS TO HAVE A DEPARTMENT OF LABOR AND INDUSTRIES APPROVED FIRM TO FIELD EVALUATE THE INSTALLATION, SAFETY, AND COMPLIANCE REQUIRED PER TACOMA POWER ELECTRICAL INSPECTION AND/OR PER WAC 296-46B-901 FOR ANY EQUIPMENT SPECIFIED OR FURNISHED NOT UL LABELED.

4. THERE IS ADDITIONAL ELECTRICAL WORK SHOWN ON THE CIVIL AND STRUCTURAL DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. EXTENSIVE COORDINATION IS REQUIRED BY THE CONTRACTOR WITH GOVERNING AUTHORITIES, OTHER CONTRACTORS WORKING ON SITE AND POT. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATION SECTIONS AND INCLUDE COSTS FOR ALL COORDINATION AND RELATED WORK IN THE BID.

5. EXCAVATIONS IN EXISTING ASPHALT AREAS FOR POWER AND COMMUNICATIONS WORK. THE CONTRACTOR SHALL SAWCUT, EXCAVATE, HAND DIG, BACKFILL, COMPACT AND PATCH ASPHALT PER THE SPECIFICATIONS. LIMITS OF PAVEMENT DEMOLITION AND RESTORATION SHALL BE AS REQUIRED BY CIVIL AND TO SAFELY PERFORM THE POWER AND COMMUNICATIONS INSTALLATIONS. PAVEMENT PATCHING SHALL BE PER CIVIL/ STRUCTURAL REQUIREMENTS.

6. SEE CIVIL DRAWINGS FOR SITE EQUIPMENT DEMOLITION, EXISTING AND NEW BELOW GRADE UTILITIES. CONTRACTOR SHALL FIELD COORDINATE EXISTING UTILITIES, UNDERGROUND WORK BY OTHER CONTRACTORS WITH ROUTING OF NEW ELECTRICAL UNDERGROUND INFRASTRUCTURE. CALL FOR, IDENTIFY AND MAINTAIN EXISTING UTILITY LOCATES PRIOR TO ANY EXCAVATIONS.

7. CONTRACTOR SHALL PROVIDE PULL TAPE IN ALL CONDUIT RUNS WITH CONDUCTORS, COMMUNICATIONS CABLES OR EMPTY. PROVIDE COMPLETE LOOP OF ALL POWER AND COMMUNICATIONS CABLES AROUND ALL FOUR(4) WALLS OF VAULTS PRIOR TO CABLE EXITING VAULT. FOR POWER CONDUCTORS UPSIZED TO REDUCE VOLTAGE DROP AND LARGER THAN TERMINATION LUGS CONTRACTOR SHALL PROVIDE TERMINAL PINS (FINGER SPLICES) TO ACCOMMODATE TERMINATION.

8. THIS SITE WILL BE SERVED BY TACOMA PUBLIC UTILITIES (TPU). CONTRACTOR SHALL COORDINATE NEW SERVICE WORK WITH TPU (DAN RED (253) 502-8292), SCHEDULE PRE-CONSTRUCTION SITE MEETING AND INCLUDE OWNER WORK REQUIREMENTS IDENTIFIED IN TPU LETTER OF AGREEMENT, APPROVED TPU CONSTRUCTION DRAWINGS AND PER TPU STANDARDS AND REQUIREMENTS.

SYMBOLS LEGEND:

XXXX — BURIED POWER/ COMMUNICATIONS CONDUITS IN SHARED TRENCH. SEE CONDUIT AND WIRE SCHEDULE SHEET EXX.

PV / CV — POWER VAULT(PV) AND COMMUNICATION VAULT(CV), 125KIP RATING. SEE VAULT SCHEDULE SHEET EXX.

ELECTRICAL POWER PANEL.

DUPLEX 120V, 20A. WP = GFI RECEPTACLE IN NEMA 3R CAST BOX WITH "IN USE" NEMA 3R COVER.

GROUND PER NEC

EQUIPMENT CONNECTION. PROVIDE PER NEC AND MANUFACTURER'S REQUIREMENTS AND/OR RECOMMENDATIONS.

J — CAST JUNCTION BOX

YLPX — WOOD YARD LIGHTING POLE WITH MULTIPLE LED LIGHT FIXTURES, UNIT SUB POWER, COMMUNICATION AND SECURITY CABINETS. SUBSCRIPT YLPX IDENTIFIES POLE #.

XXX — AVAILABLE FAULT CURRENT.

A / B — DETAIL/SECTION IDENTIFICATION: A = DETAIL/SECTION LETTER, B = SHEET NUMBER WHERE DETAIL/SECTION IS TAKEN FROM OR DRAWN.

ABBREVIATION LEGEND:

A	=	AMPS
AFG	=	ABOVE FINISHED GRADE
AIC	=	FAULT CURRENT RATING
BP	=	EXISTING BURIED POWER
BPO	=	EXISTING BURIED FIBER
C	=	COMMUNICATIONS
CDF	=	CONTROLLED DENSITY FILL
CKT	=	CIRCUIT
CO	=	CONDUIT ONLY
CV	=	COMMUNICATIONS VAULT
EX	=	EXISTING
FOB	=	FIBER OPTIC
FT	=	FEET
GRD	=	GROUND
HMA	=	HOT MIX ASPHALT
ID	=	IDENTIFICATION
MIN	=	MINIMUM
N	=	NEW
NEC	=	NATIONAL ELECTRICAL CODE
NEMA	=	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NIC	=	NOT IN CONTRACT
PV	=	POWER VAULT
POT	=	PORT OF TACOMA ENGINEER
POTM	=	PORT OF TACOMA FACILITIES MAINENANCE
POTIT	=	PORT OF TACOMA INFORMATION TECHNOLOGY DEPARTMENT
PVCRS	=	PVC COATED RIGID STEEL CONDUIT
SD	=	SECONDARY 600V DISTRIBUTION
SC	=	SECURITY CAMERAS
SDV	=	SECONDARY POWER VAULT
SL	=	SITE LIGHTING
SP	=	SPARE CONDUIT
TPU	=	TACOMA PUBLIC UTILITIES
TPUV	=	TACOMA PUBLIC UTILITIES VAULT
W	=	WITH
WAC	=	WASHINGTON ADMINISTRATIVE CODE
WP	=	WEATHERPROOF
WPC	=	WHERE-PORT COMMUNICATIONS

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
ELECTRICAL SYMBOLS LEGEND/GENERAL NOTES

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

SECTION: 36

6698
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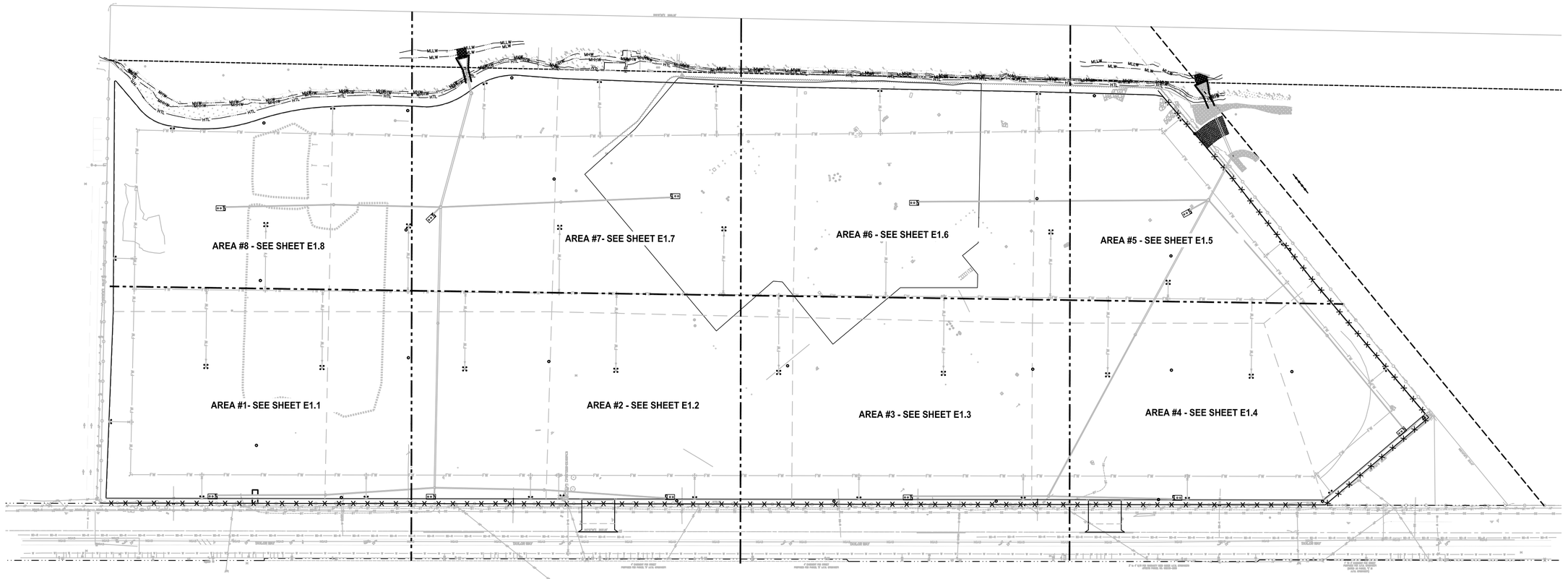
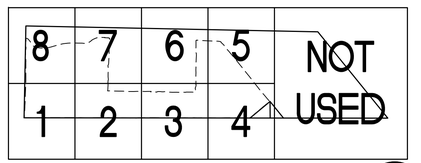


OVERALL ELECTRICAL SITE PLAN
SCALE: 1"=100'-0"

NOTE: IF DRAWING IS LESS THEN 22"x34", IT IS A REDUCED SET

100' 0' 100' 200'

SCALE: 1"=100'



KEY PLAN
SCALE: NTS

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TACOMA, WA 98401-1837
DRAWING SCALE: AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
OVERALL ELECTRICAL SITE PLAN

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	SECTION: 36

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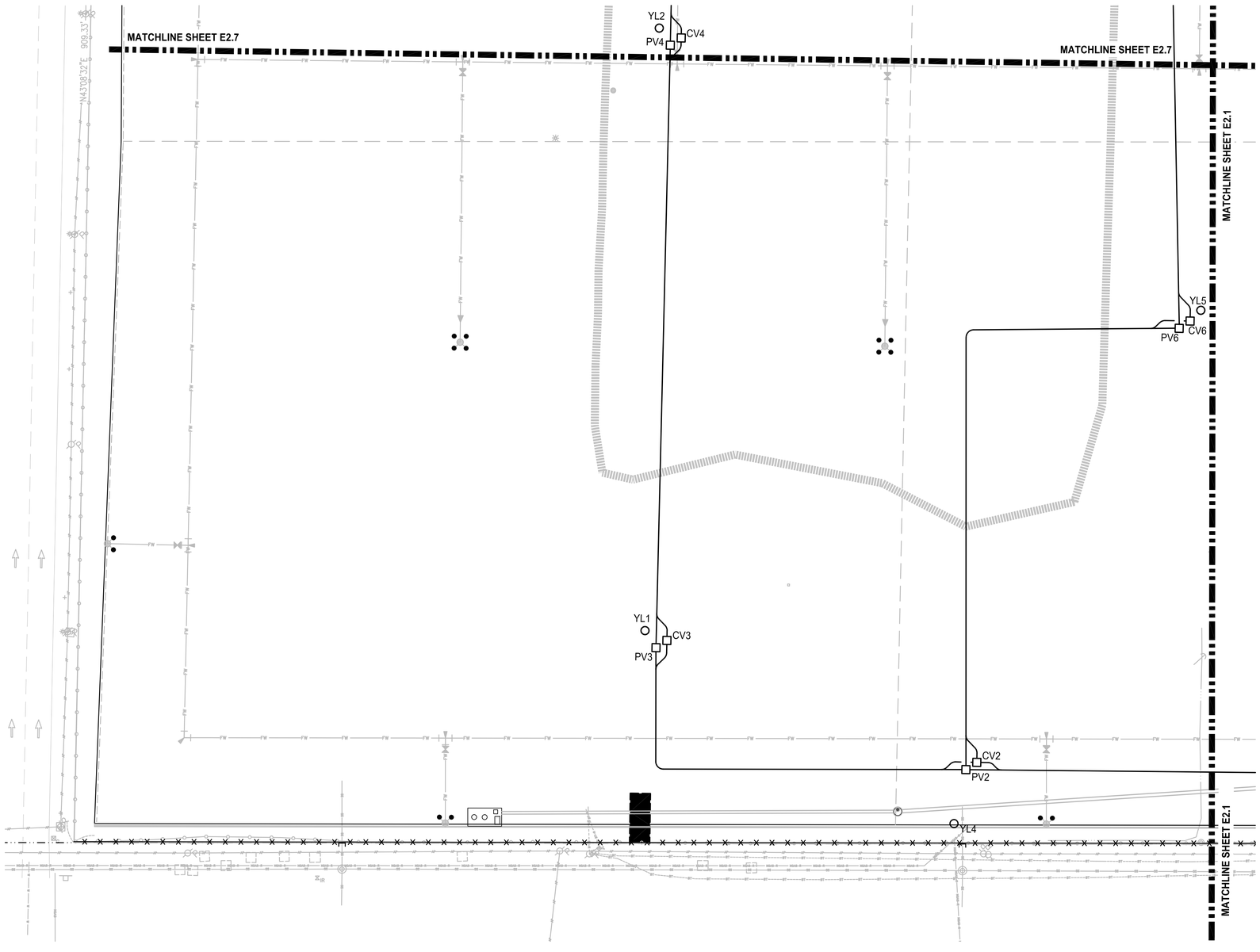


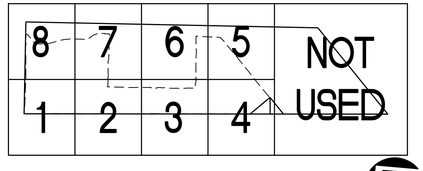
PARTIAL ELECTRICAL SITE PLAN - AREA 1

SCALE: 1"=30'-0"

NOTE: IF DRAWING IS LESS THEN 22"x34", IT IS A REDUCED SET

30' 0' 30' 60'

SCALE: 1"=30'



KEY PLAN

SCALE: NTS

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
PARTIAL ELECTRICAL SITE PLAN - AREA 1

6698
E1.1
62 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%
TOWNSHIP:	21 NORTH
DAT-HRZ:	WA83/2011
PARCEL:	0321351053
RANGE:	3 EAST
VERT:	MLLW 15.73' @ POT MON #178
SECTION:	36

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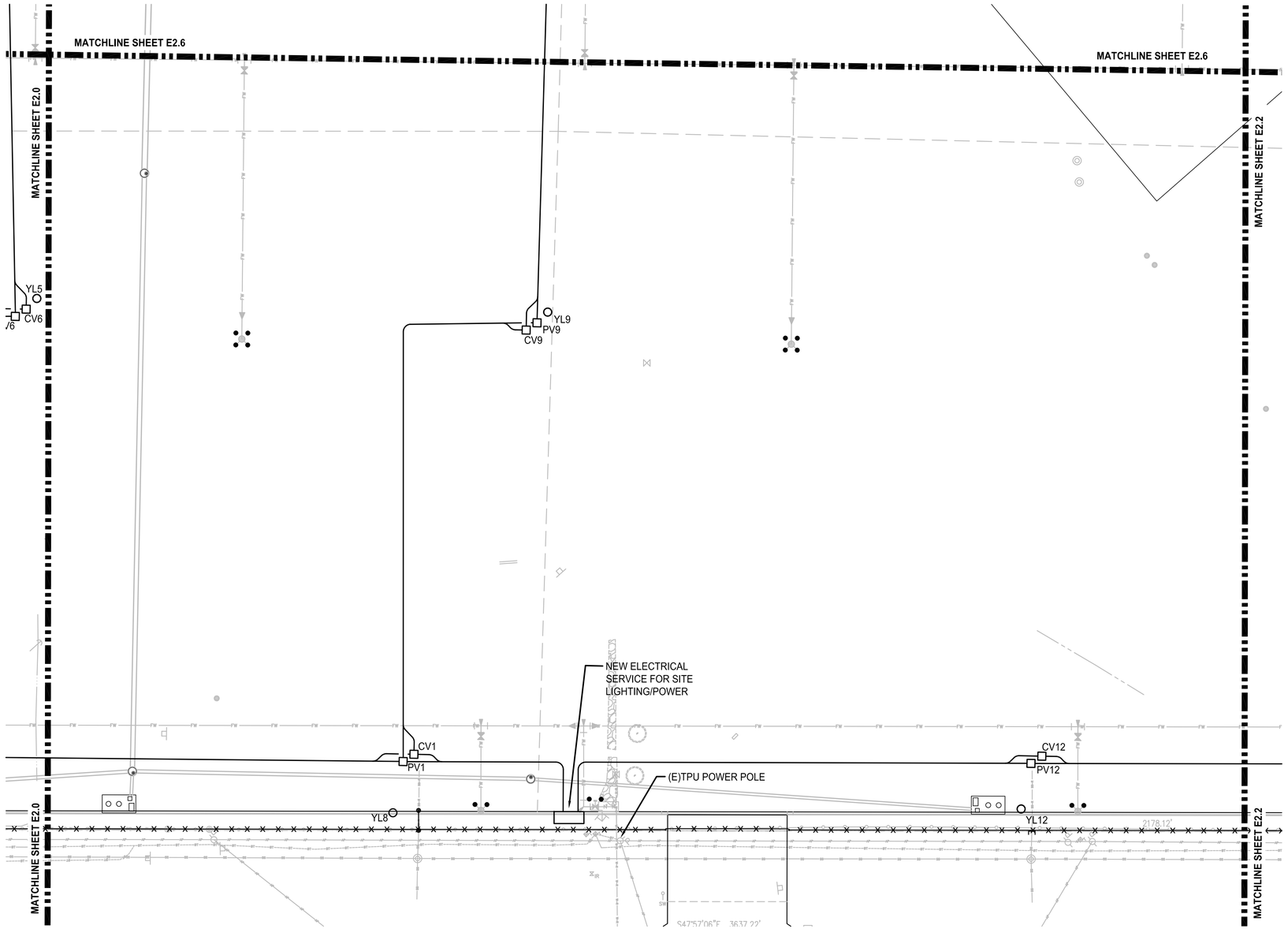


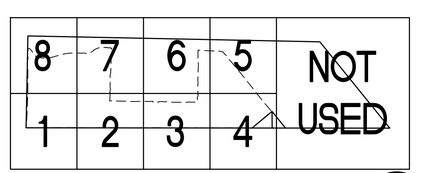
PARTIAL ELECTRICAL SITE PLAN - AREA 2

SCALE: 1"=30'-0"

NOTE: IF DRAWING IS LESS THEN 22"x34", IT IS A REDUCED SET

30' 0' 30' 60'

SCALE: 1"=30'



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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
PARTIAL ELECTRICAL SITE PLAN - AREA 2

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CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PHASE:	30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED

SECTION: 36

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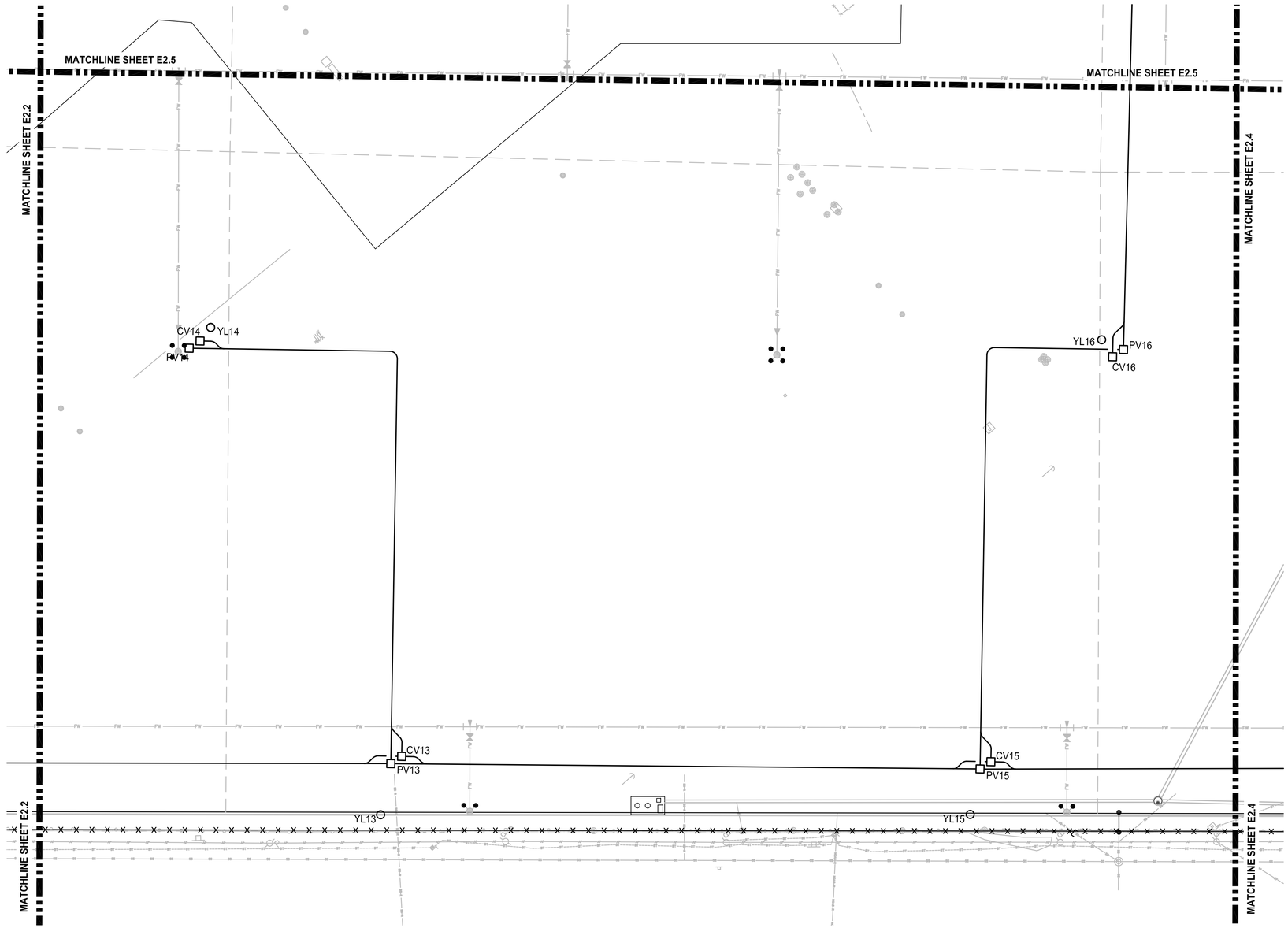


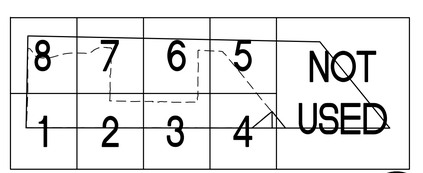
PARTIAL ELECTRICAL SITE PLAN - AREA 3

SCALE: 1"=30'-0"

NOTE: IF DRAWING IS LESS THEN 22"x34", IT IS A REDUCED SET

30' 0' 30' 60'

SCALE: 1"=30'



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DRAWING SCALE: AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
PARTIAL ELECTRICAL SITE PLAN - AREA 3

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TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT-HRZ: WA83/2011	VERT: MLLW 15.73 @ POT MON #178		
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64 OF 72

CONT/CONS:	072075
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PHASE:	30%

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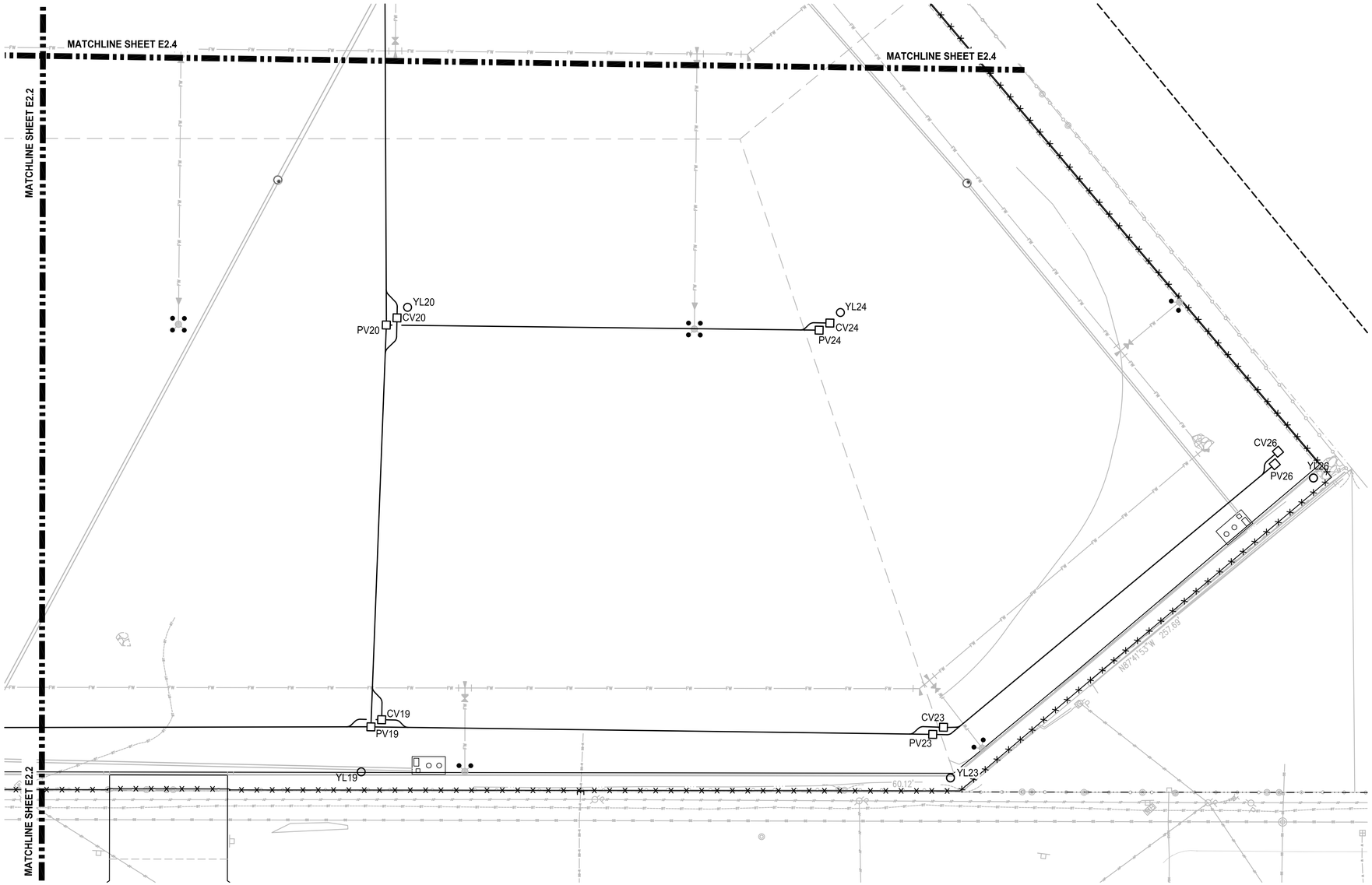


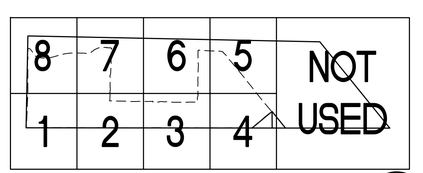
PARTIAL ELECTRICAL SITE PLAN - AREA 4

SCALE: 1"=30'-0"

NOTE: IF DRAWING IS LESS THEN 22"x34", IT IS A REDUCED SET

30' 0' 30' 60'

SCALE: 1"=30'



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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
PARTIAL ELECTRICAL SITE PLAN - AREA 4

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
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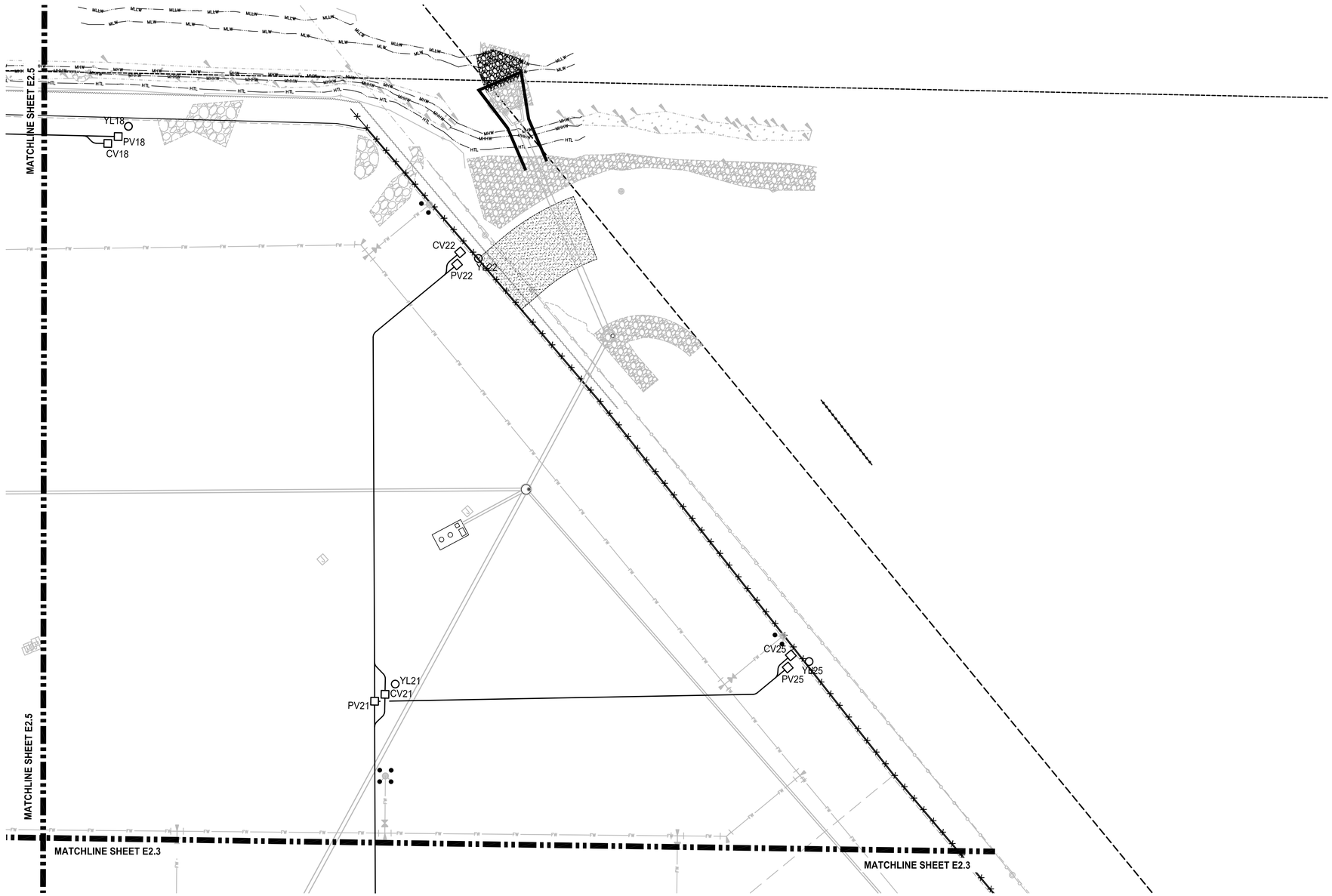


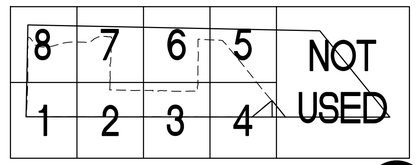
PARTIAL ELECTRICAL SITE PLAN - AREA 5

SCALE: 1"=30'-0"

NOTE: IF DRAWING IS LESS THEN 22"x34", IT IS A REDUCED SET

30' 0' 30' 60'

SCALE: 1"=30'



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SCALE: NTS

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TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
PARTIAL ELECTRICAL SITE PLAN - AREA 5

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
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E1.5
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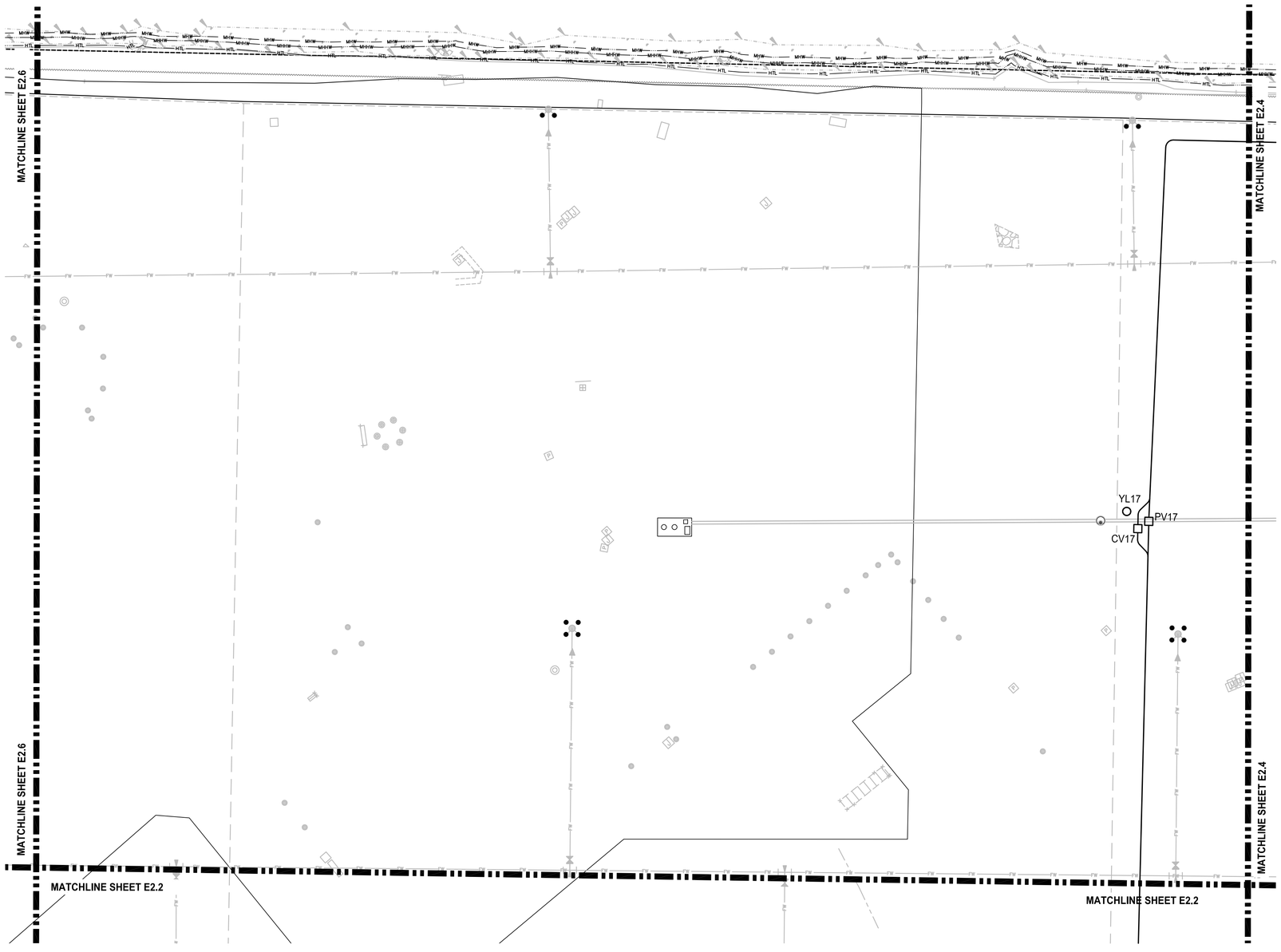


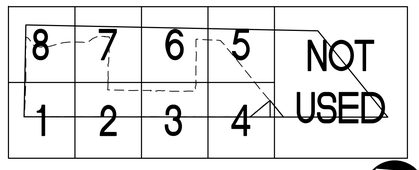
PARTIAL ELECTRICAL SITE PLAN - AREA 6

SCALE: 1"=30'-0"

NOTE: IF DRAWING IS LESS THEN 22"x34", IT IS A REDUCED SET

30' 0' 30' 60'

SCALE: 1"=30'



KEY PLAN

SCALE: NTS

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PROJ. ENGR	DATE		

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PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
PARTIAL ELECTRICAL SITE PLAN - AREA 6

CONT/CONS:	072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID:	101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE:	30%	PARCEL: 0321351053		

6698
E1.6
67 OF 72

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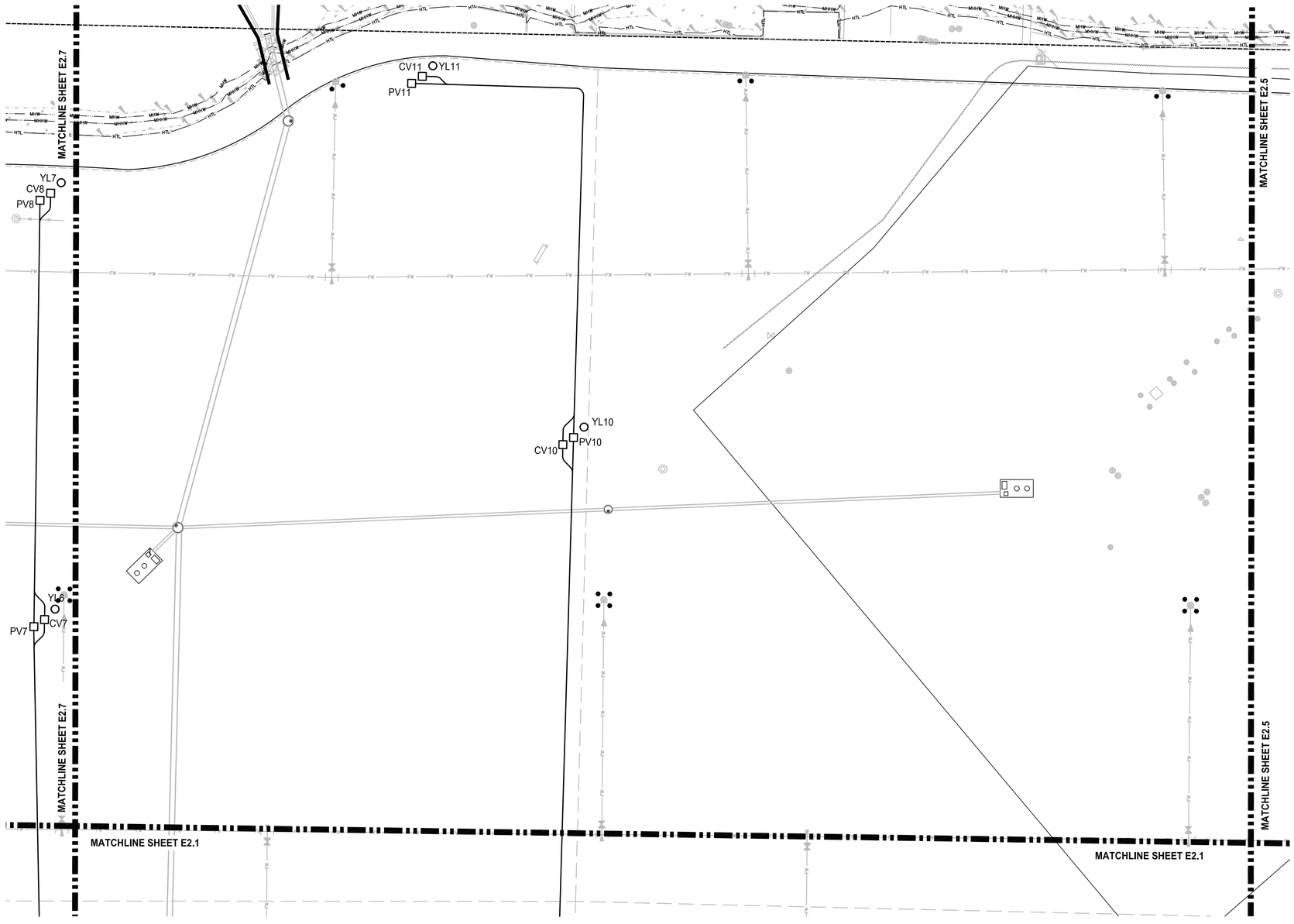


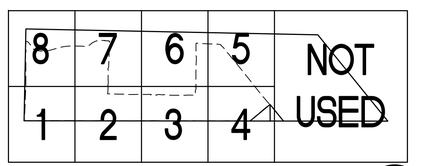
PARTIAL ELECTRICAL SITE PLAN - AREA 7

SCALE: 1"=30'-0"

NOTE: IF DRAWING IS LESS THEN 22"x34", IT IS A REDUCED SET

30' 0' 30' 60'

SCALE: 1"=30'



KEY PLAN

SCALE: NTS

NORTH

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	S.JK		07/19/24
PROJ. ENGR			DATE
TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36	
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178		
PARCEL: 0321351053	DRAWING SCALE: AS NOTED		

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
PARTIAL ELECTRICAL SITE PLAN - AREA 7

6698
E1.7
68 OF 72

CONT/CONS: 072075
M. ID: 101585.01
PHASE: 30%

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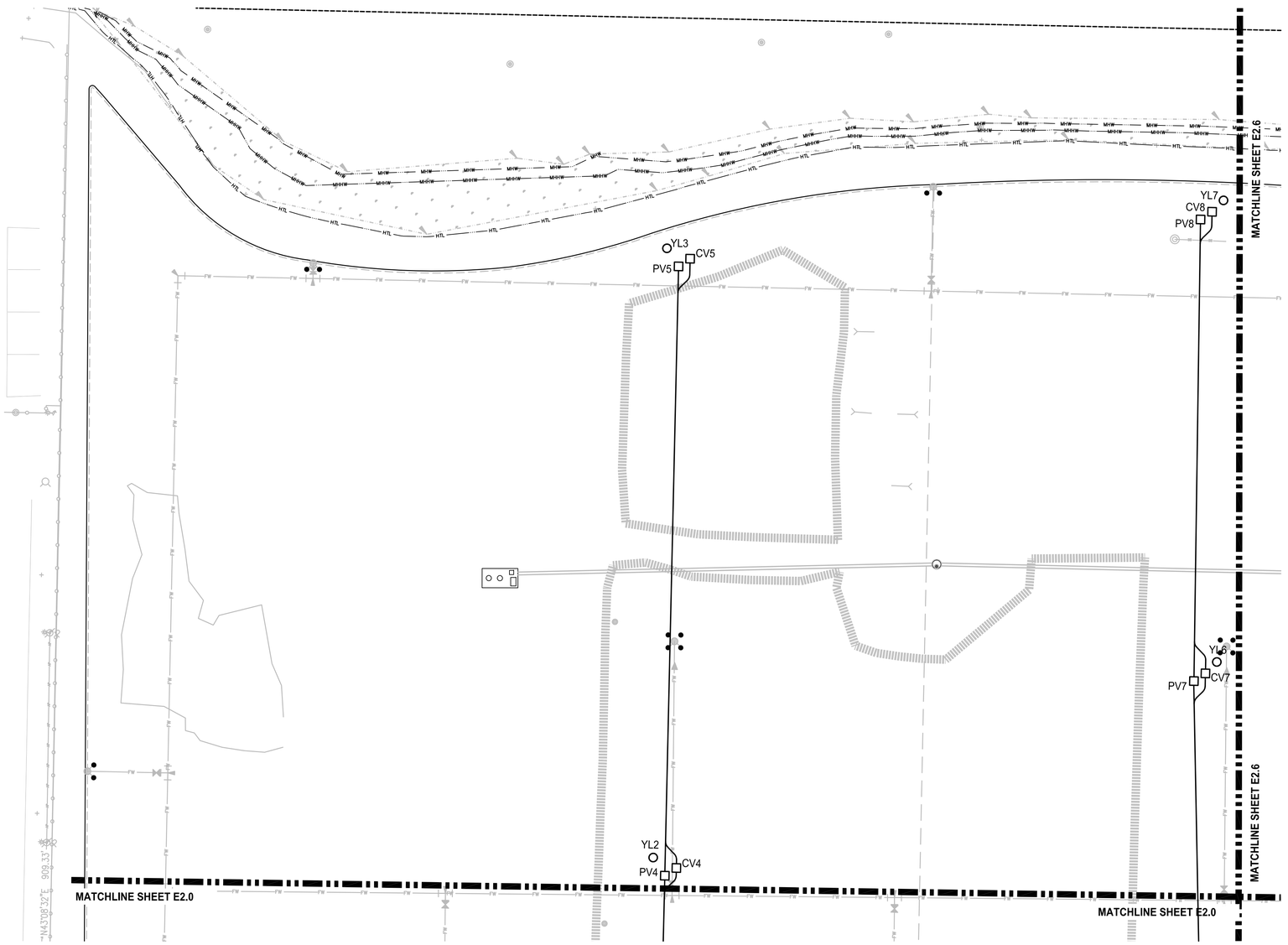


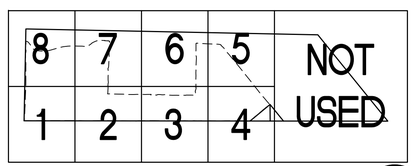
PARTIAL ELECTRICAL SITE PLAN - AREA 8

SCALE: 1"=30'-0"

NOTE: IF DRAWING IS LESS THEN 22"x34", IT IS A REDUCED SET

30' 0' 30' 60'

SCALE: 1"=30'



KEY PLAN

SCALE: NTS

NORTH

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TACOMA, WA 98401-1837

DRAWING SCALE: AS NOTED

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
PARTIAL ELECTRICAL SITE PLAN - AREA 8

TOWNSHIP: 21 NORTH	RANGE: 3 EAST
DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053	

SECTION: 36

6698
E1.8
69 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

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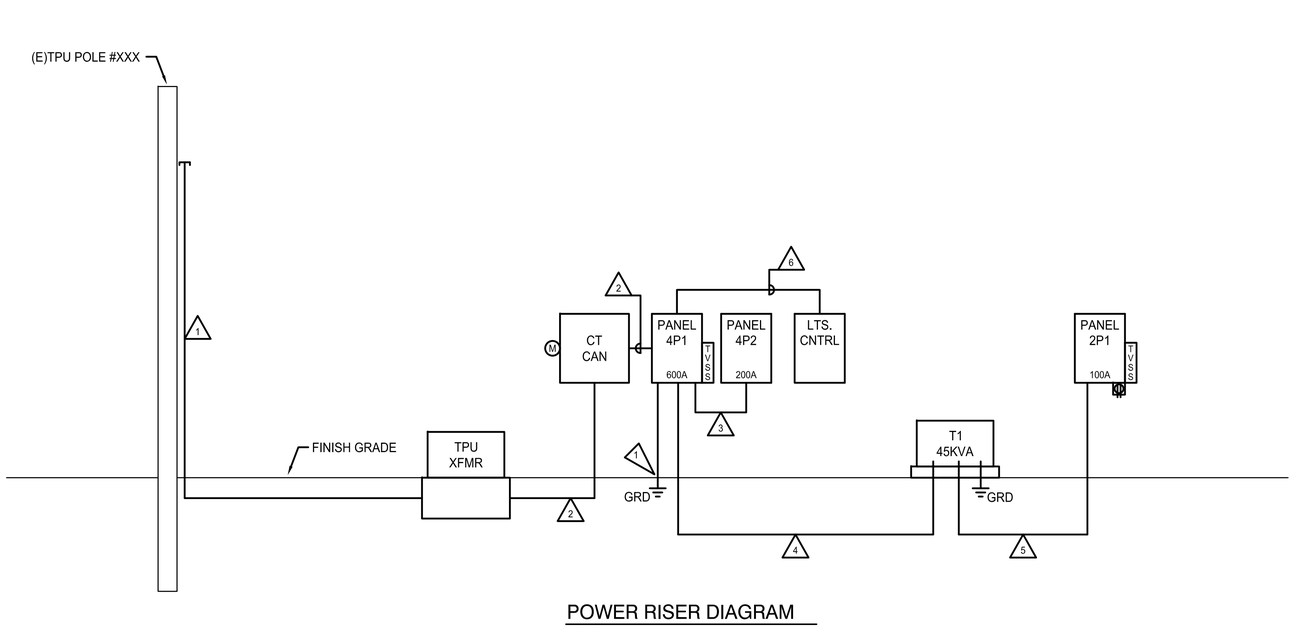
ELECTRICAL NOTES:

1. PROVIDE GROUND TEST WELL. OLDCASTLE "CHRISTY" 10" DIAMETER x 12" DEEP OR EQUAL.

CONDUIT AND WIRE SCHEDULE

1. 4"C-CONDUCTORS BY TACOMA POWER
2. (2)3"C-(4)#350 KCM CU EACH
3. 2"C-(4)#3/0 CU & (1)#6 CU GRD
4. 1"C-(3)#6 CU & (1)#10 CU GRD
5. 1-1/2"C-(4)#2 CU & (1)#8 CU GRD
6. 1"C-(3)#6 CU & (1)#10 CU GRD



POWER RISER DIAGRAM
NOT TO SCALE

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
POWER RISER DIAGRAM

SLH 07/19/24			
CHECKED BY DATE			
SJK 07/19/24			
PROJ. ENGR DATE			
PRINTED BY: ScottK Jul 16, 2024			
PORT ADDRESS: ONE SITCUM PLAZA			
TACOMA, WA 98401-1837			
CONT/CONS: 072075	TOWNSHIP: 21 NORTH	RANGE: 3 EAST	SECTION: 36
M. ID: 101585.01	DAT-HRZ: WA83/2011	VERT: MLLW 15.73' @ POT MON #178	
PHASE: 30%	PARCEL: 0321351053	DRAWING SCALE: AS NOTED	

6698
E2.0
70 OF 72

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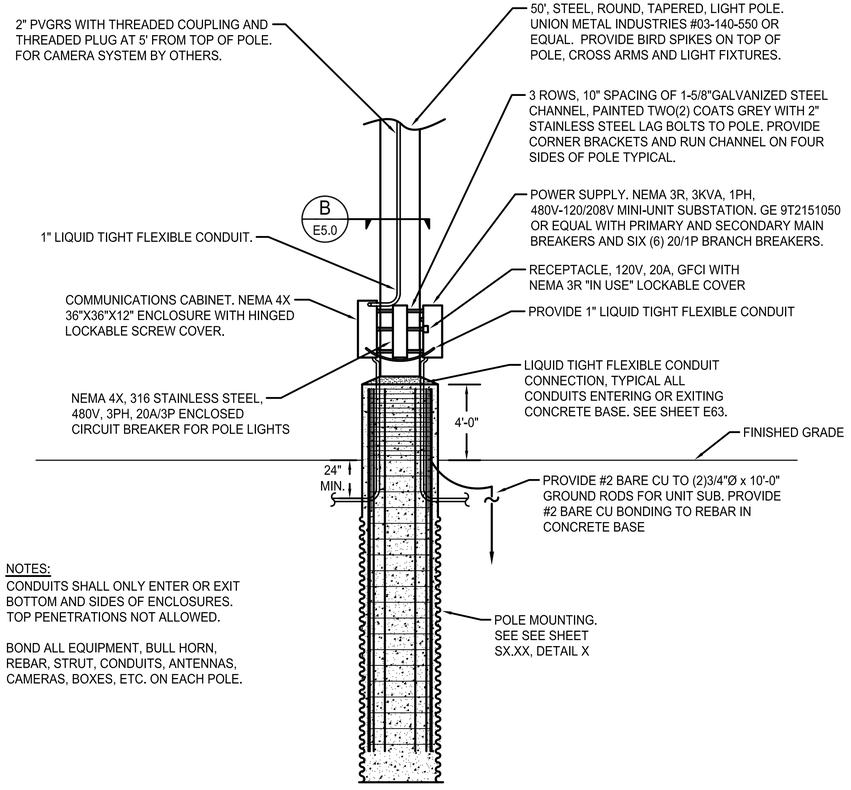
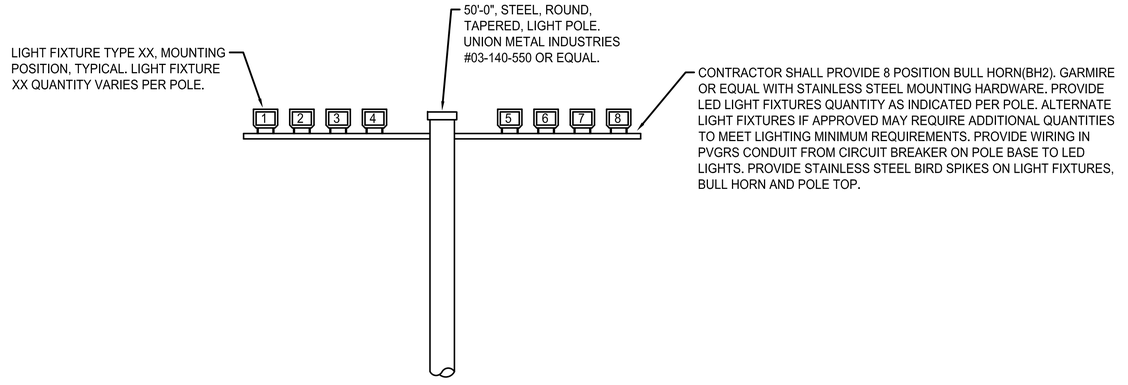


NOTES:

1. CONDUITS SHALL ONLY ENTER OR EXIT BOTTOM AND SIDES OF ENCLOSURES. TOP PENETRATIONS NOT ALLOWED.
2. BOND ALL EQUIPMENT, BULL HORN, REBAR, STRUT, CONDUITS, ANTENNAS, CAMERAS, BOXES, ETC. ON EACH POLE.

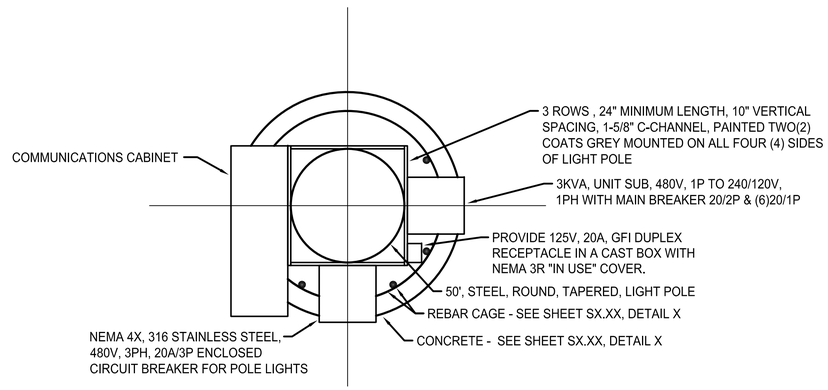
A E5.0 STEEL POLE LIGHTS, POWER, COMMUNICATIONS, SECURITY

NOT TO SCALE



LIGHTING POLE ELEVATION TYPICAL

NO SCALE



B E5.0 STEEL POLE SECTION

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

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TACOMA, WA 98401-1837

ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
ELECTRICAL DETAILS

TOWNSHIP: 21 NORTH | RANGE: 3 EAST | SECTION: 36
DAT-HRZ: WA83/2011 | VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053 | DRAWING SCALE: AS NOTED

6698
E3.0
71 OF 72

CONT/CONS:	072075
M. ID:	101585.01
PHASE:	30%

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BINDING EDGE

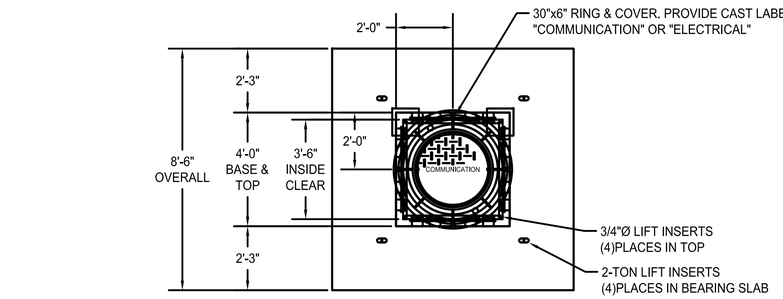
VAULT SCHEDULE			
ID	**DESCRIPTION**	**LOADING**	**NOTES**
TPUPV1	CUSTOM 15KV TACOMA POWER PADMOUNT TRANSFORMER VAULT, SELF GROUNDED, 774. REFER TO TPU STANDARDS AND REQUIREMENTS	MINIMUM 125 KIP.	1
CV1 THRU CV26 PV1 THRU PV26	CUSTOM POWER/COMMUNICATIONS VAULT SEE DETAIL A, THIS SHEET	MINIMUM 125 KIP.	2 3 4

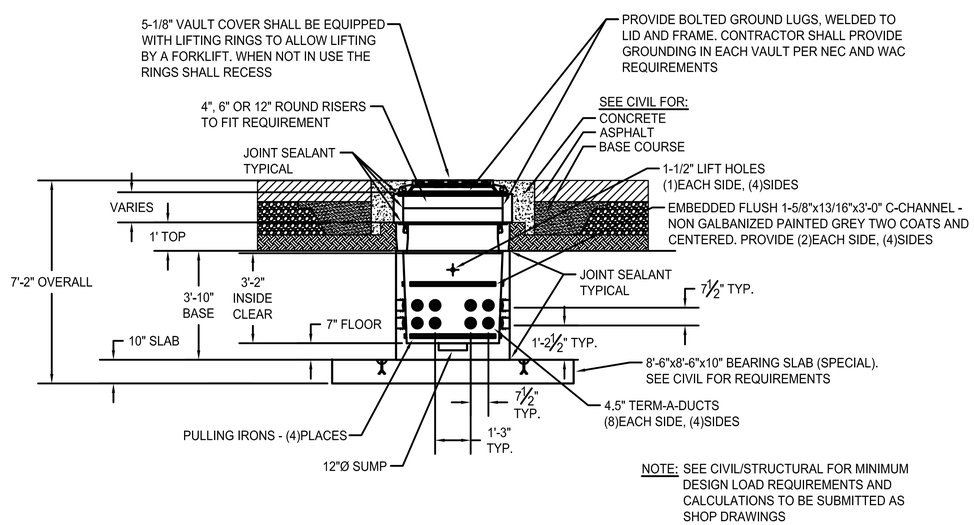
GENERAL VAULT NOTES:

1. ALL CONDUITS ENTERING OR LEAVING VAULTS SHALL USE TERM-A-DUCTS. PROVIDE REMOVABLE FOAM FILL IN ALL CONDUIT OPENINGS. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS. CONTRACTOR SHALL PROVIDE CONDUIT LABELS FOR ALL CONDUITS ENTERING AND LEAVING VAULTS. PROVIDE PHENOLIC LABEL ATTACHED TO VAULT WALL WITH TWO (2) PLASTIC INSERTS AND STAINLESS STEEL SCREWS ADJACENT TO EACH CONDUIT. PHENOLIC LABEL SHALL HAVE CONDUIT ID ENGRAVED AS INDICATED ON CONDUIT AND WIRE SCHEDULE DRAWINGS E80, E81.
2. SEE SPECIFICATION SECTION XX XX XX FOR ADDITIONAL VAULT INSTALLATION REQUIREMENTS.
3. ALL POWER CONDUCTORS SHALL COMPLETELY LOOP AROUND VAULT WALLS PRIOR TO EXITING VAULT.

VAULT SCHEDULE NOTES:

1. SHOP DRAWING APPROVAL BY TPU REQUIRED.
2. CIVIL SHOP DRAWING REVIEW/APPROVAL REQUIRED.
3. PROVIDE FIELD STAMPED IDENTIFICATION LABEL ON EXPOSED METAL RING AND LID. LABEL SHALL MATCH VAULT IDENTIFICATION ON ELECTRICAL RECORD DRAWINGS PREPARED BY CONTRACTOR.
4. PROVIDE STENCIL PAINTED VAULT KIP RATING ON INSIDE OF VAULT DIRECTLY BELOW LID. MINIMUM 4" HIGH LETTERS.





CUSTOM 444 SITE POWER/COMMUNICATIONS VAULT
NOT TO SCALE

A
E5.1

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ARKEMA MANUFACTURING AREA
INTERIM ACTION - SITE CAPPING
ELECTRICAL DETAILS

TOWNSHIP:	21 NORTH
RANGE:	3 EAST
SECTION:	36
VERT:	MLLW 15.73' @ POT MON #178
PARCEL:	0321351053

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72 OF 72

CONT/CONS:	072075
M. ID:	101585.01
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