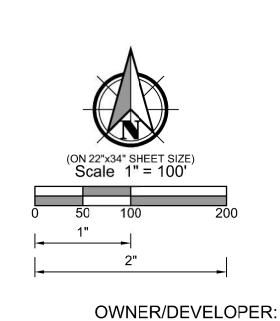
Pasco Sanitary Landfill NPL Site

Zone A Removal Action Engineering Design Report

Appendix E Zone A Removal Action Design Drawings



(IWAG) GROUP III



ENGINEER:

JASON MATTOX, PE RICHLAND, WA 99352 (509) 942-1600

SURVEYOR:

ALEX MATARAZZO, PLS 400 BRADLEY BLVD, SUITE 106 400 BRADLEY BLVD, SUITE 106 RICHLAND, WA 99352 (509) 942-1600

2000			
N. C. L.			1
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1000			7C.
Section			8.

SHEET INDEX

COVER SHEET

SVE SYSTEM RECONFIGURATION SITE PLAN

SVE SYSTEM RECONFIGURATION CROSS-SECTION

SITE MAP, EXCAVATION, LAYDOWN, AND STOCKPILE AREAS

EROSION AND SEDIMENT CONTROL PLAN

ZONE A EXCAVATION PLAN

ZONE A EXCAVATION PLAN FOR TEMPORARY STRUCTURE POSITIONS 1 AND 2

ZONE A EXCAVATION PLAN FOR TEMPORARY STRUCTURE POSITIONS 3 AND 4

ZONE A EXCAVATION PLAN FOR TEMPORARY STRUCTURE POSITIONS 5 AND 6

12. D-D' CROSS-SECTION

13. ACCESS ROADS

14. WASTE CONTAINER MANAGEMENT AREA PLAN WITH CROSS SECTIONS

15. INTERIM COVER PLAN AND SECTIONS

16. INTERIM COVER CROSS-SECTION

17. DETAILS

EXISTING CONDITIONS SURVEY AND CONTROL POINTS

INDUSTRIAL WASTE AREA GENERATORS

ZONE A CROSS SECTION LAYOUTS

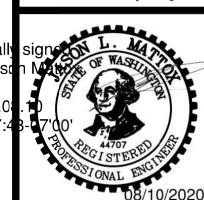
A-A' CROSS-SECTION

10. B-B' CROSS-SECTION

11. C-C' CROSS-SECTION

18. DETAILS





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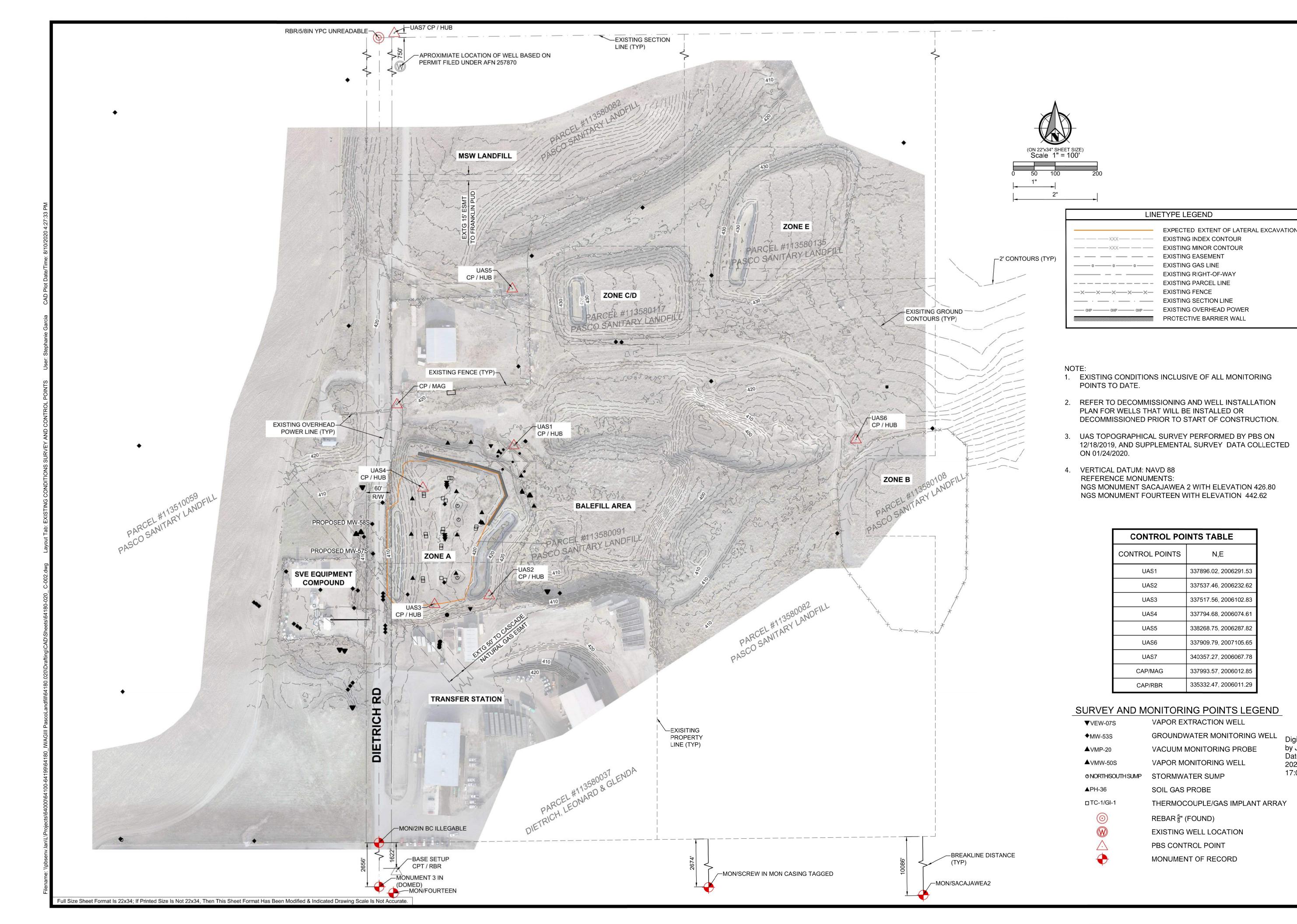
SHEET 1 OF 18

AUGUST 10th,2020 **EDR SUBMITTAL**



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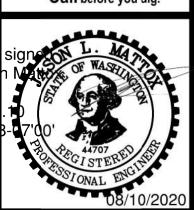
MSW LANDFILL



ONDITIONS

Know what's below.

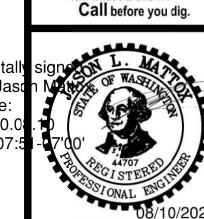
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SHEET ID

SHEET 2 OF 18



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SHEET ID

SHEET 3 OF 18

KEYED CONSTRUCTION NOTES:

- 1) PROPOSED LOCATION OF HORIZONTAL SVE WELLS HEADS.
- (2) SVE HORIZONTAL DRILLING BORE PITS
- (3) SVE WELL SCREEN (PROPOSED)

LINE	TYPE LEGEND
	TENTATIVE SHORING EXPECTED EXTENT OF LATERAL EXCAVATION GEOMEMBRANE LIMITS
	EXISTING EVAPORATION PONDS
	PROPOSED SVE LINE EXISTING EASEMENT
	EXISTING GAS LINE
	EXISTING RIGHT-OF-WAY
	EXISTING PARCEL LINE
_xxxx-	EXISTING FENCE
	EXISTING SECTION LINE
	EXISTING OVERHEAD POWER
ΕΕΕ	EXISTING UNGROUNDED COMMUNICATION
	LINE (ABANDONED)
	PROTECTIVE BARRIER WALL
	SVE VAPOR LINE TO FLARE

MONITORING POINTS LEGEND

VAPOR EXTRACTION WELL **⋖**VEW-07S

GROUNDWATER MONITORING WELL (MW, NVM, EE, 2) **♦**MW-53S

VACUUM MONITORING PROBE ►VMP-20 VAPOR MONITORING WELL ►VMW-50S ONORTH/SOUTHSUMP STORMWATER SUMP

SOIL GAS PROBE ▶PH-36

□TC-1/GI-1 THERMOCOUPLE/GAS IMPLANT ARRAY

▼ <u>VEW-07I</u> MONITORING POINTS TO BE DECOMMISSIONED

● <u>VB-23</u> EXISTING THERMAL COUPLES

PROPOSED MW-57S PROPOSED MW-58S -PROPOSED SVE WELL ALIGNMENT NVM-01 NVM-01I NVM-01D DIETRICH ROAD EXTG UNDERGROUND ~EXTG ASPHALT~ MW-50S ◆ COMMUNICATION OF LINE (ABANDONED) EXCAVATION MAY EXTEND PAST GEOMEMBRANE, AS SHOWN BY OVERHEAD POWER POLE (TYP) EVAPORATION BASIN-VMP-08 ▶ TC-9 GI-9 GI-7 TC-7 -EXPECTED EXTENT OF EXCAVATION (GEOMEMBRANE EXTENT) -VEW-07H VEW-06H-\ MW-48I MW-48D ◆ ◆ MW-48S ► <u>VMP-19</u> EXTG GAS LINE-SOUTH SUMP_G ► VMP-06 <u>VMP-05</u> NORTH SUMP 2 EXTG SVE LINE-(DECOMMISSION) 30' x 40' WASTEWATER/-**▼ VEW-05** APPROXIMATE— GEOMEMBRANE LIMITS EVAPORATION BASIN (EAST)

EXTG 8" HP STEEL

VMW-01D

APROXIMATE LOCATION OF-

VEW-01

EXTG OVERHEAD-

SVE VAPOR LINE TO FLARE (TO BE VERIFIED IN THE FIELD)

SVE EQUIPMENT

PROPOSED SVE WELL CONVEYANCE PIPING

▼ VMW-02S

ALIGNMENT

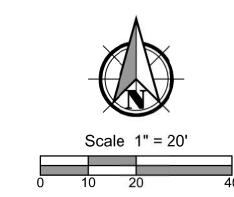
✓ VMW-03D

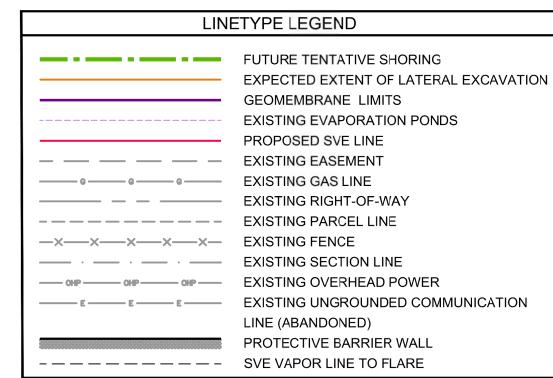
EXTG MOISTURE

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GUY WIRE (TYP)

SEPARATORS





MONITORING POINTS LEGEND

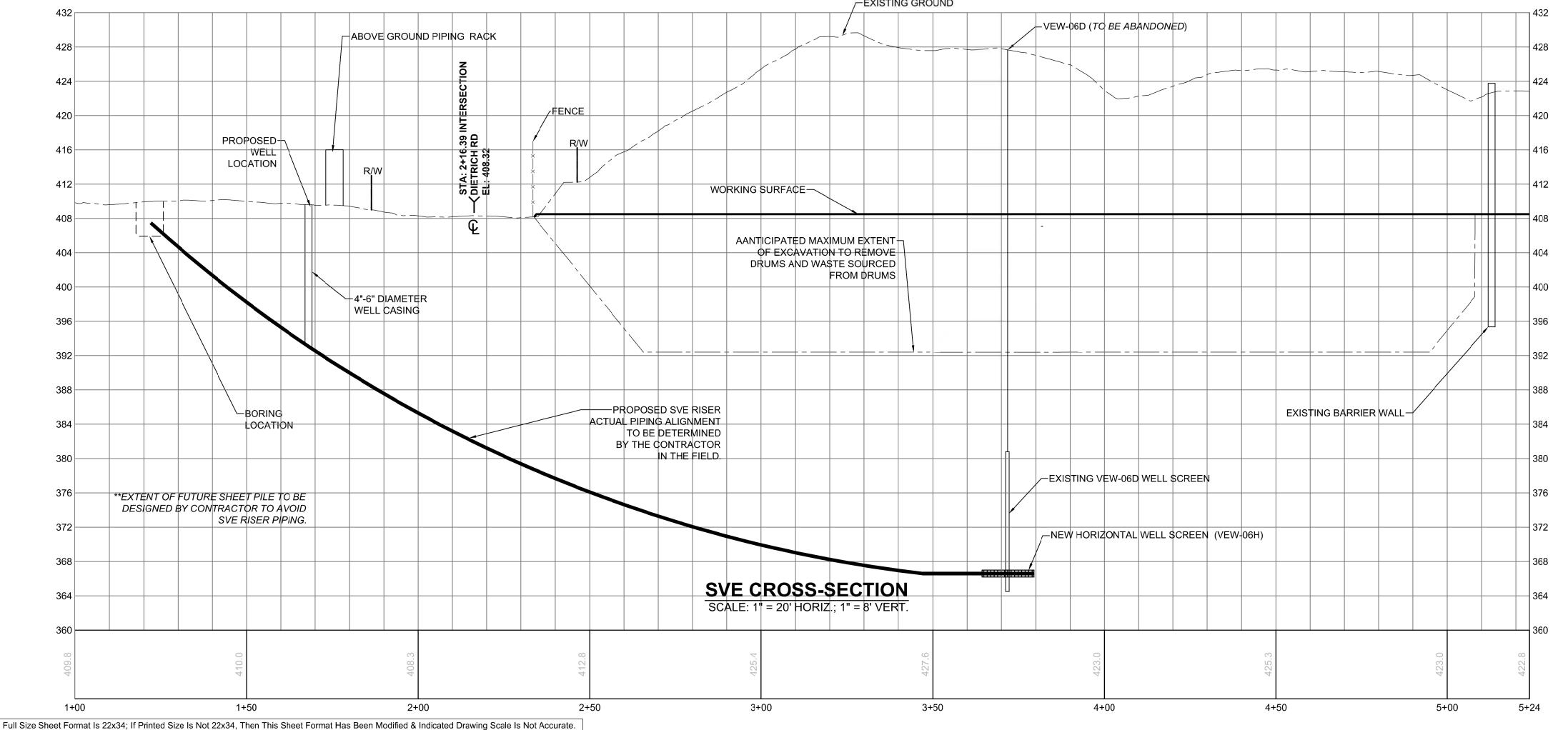
▼ VEW-07S VAPOR EXTRACTION WELL

♦ MW-53S GROUNDWATER MONITORING WELL

▲ VMW-50S VAPOR MONITORING WELL

▼ VEW-07I MONITORING POINTS TO BE DECOMMISSIONED

1. GROUNDWATER ELEVATION IS 351 TO 354 FEET.





ONFIG

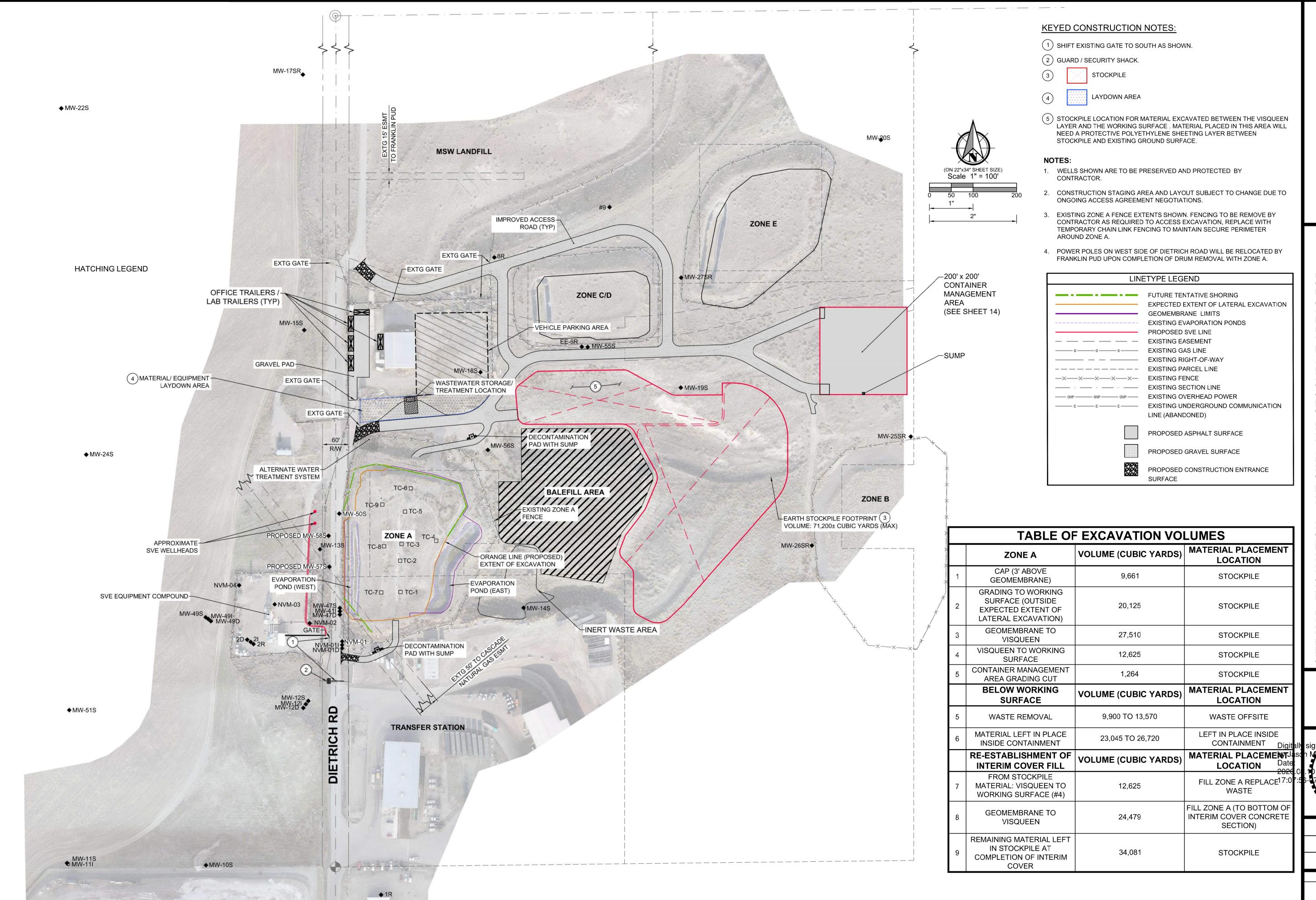
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SHEET 4 OF 18



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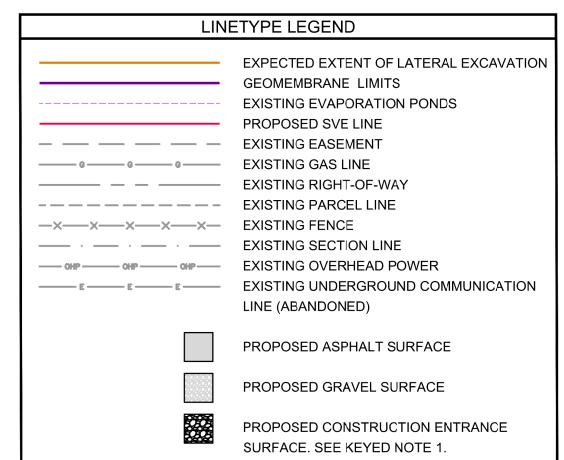


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SHEET 5 OF 18

KEYED CONSTRUCTION NOTES:

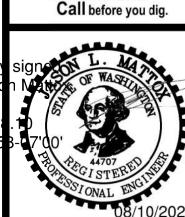
- 1 STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-02, SEE SHEET 17 FOR DETAIL. CONTRACTOR SHALL ADJUST EROSION CONTROL MEASURES DURING CONSTRUCTION AS SITE CONDITIONS CHANGE.
- 2 SILT FENCE PER WSDOT STD PLAN I-30.15-02, SEE SHEET 17 FOR DETAIL. CONTRACTOR SHALL ADJUST EROSION CONTROL MEASURES DURING CONSTRUCTION AS SITE CONDITIONS CHANGE.
- 3 STOCKPILES TO BE STABILIZED WITH "GORILLA SNOT" OR APPROVED EQUAL TACKIFIER MATERIAL.
- 4 ACTIVE STOCKPILES TO BE SECURED WITH PLASTIC SHEETING OR "GORILLA SNOT" OVERNIGHT PER STORMWATER MANAGEMENT MANUAL FOR EASTERN WASHINGTON STANDARDS, DETAIL BMP C123E.
- (5) SEE SHEET 18 FOR TEMPORARY TREATMENT SYSTEM.



DUCTION NOTES:

MOVAL ACTION

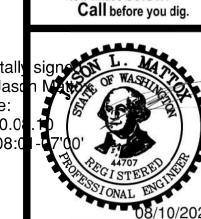
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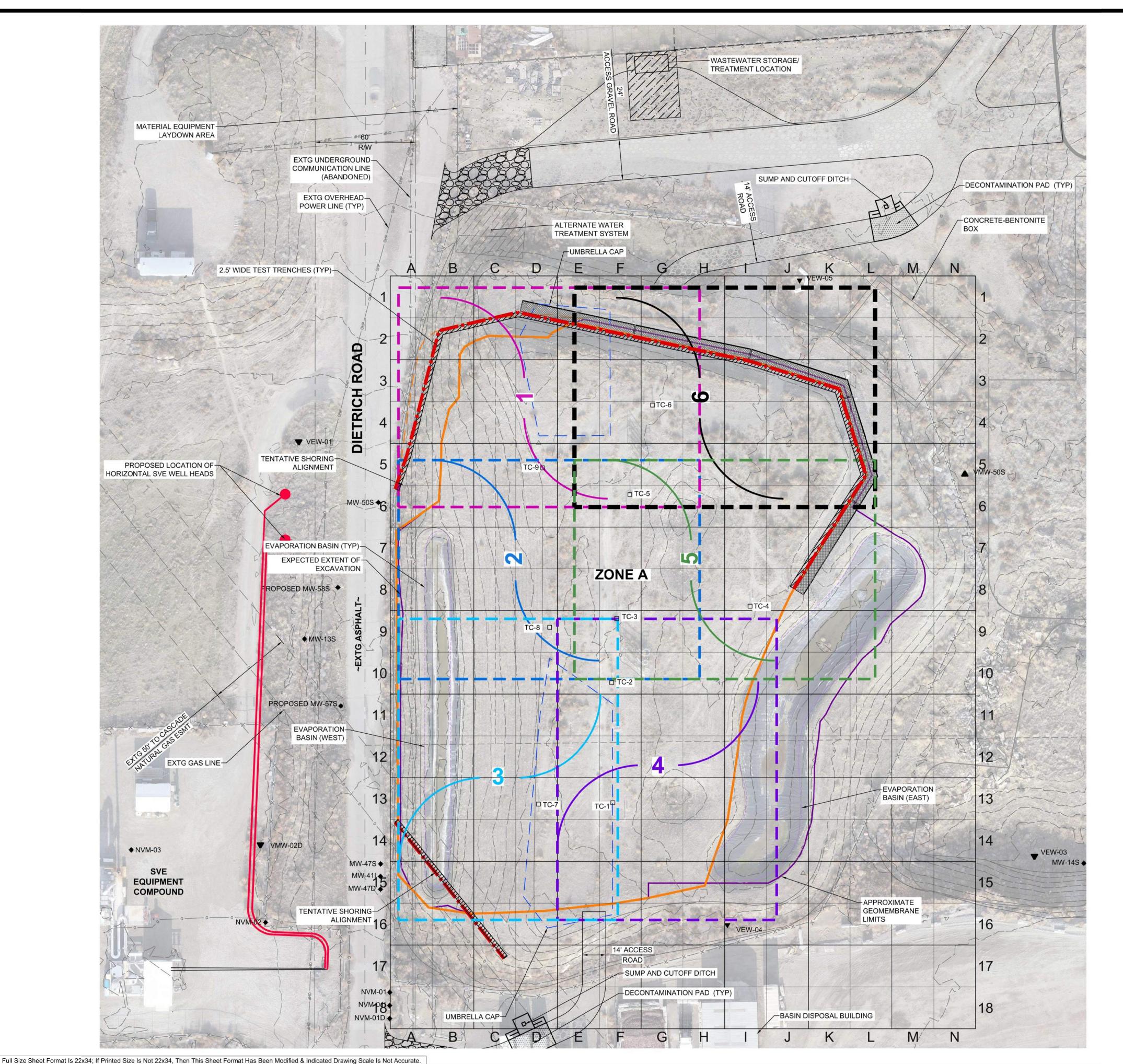
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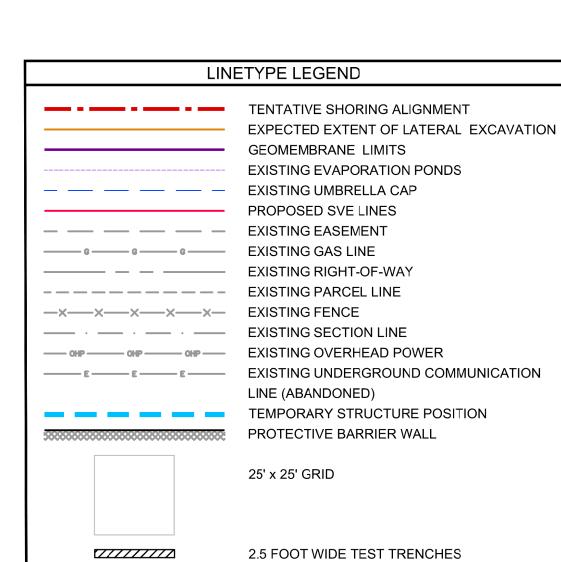
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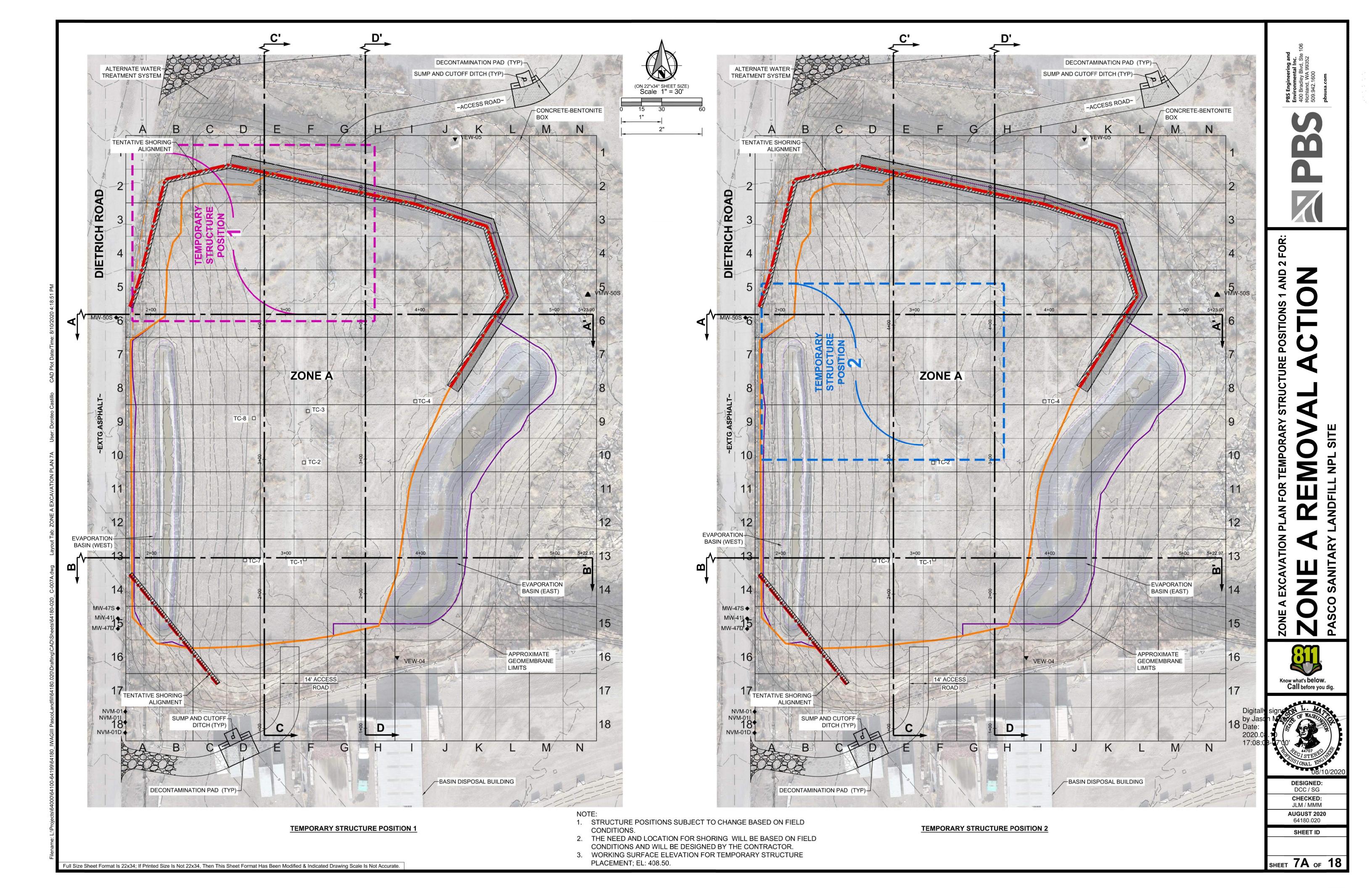
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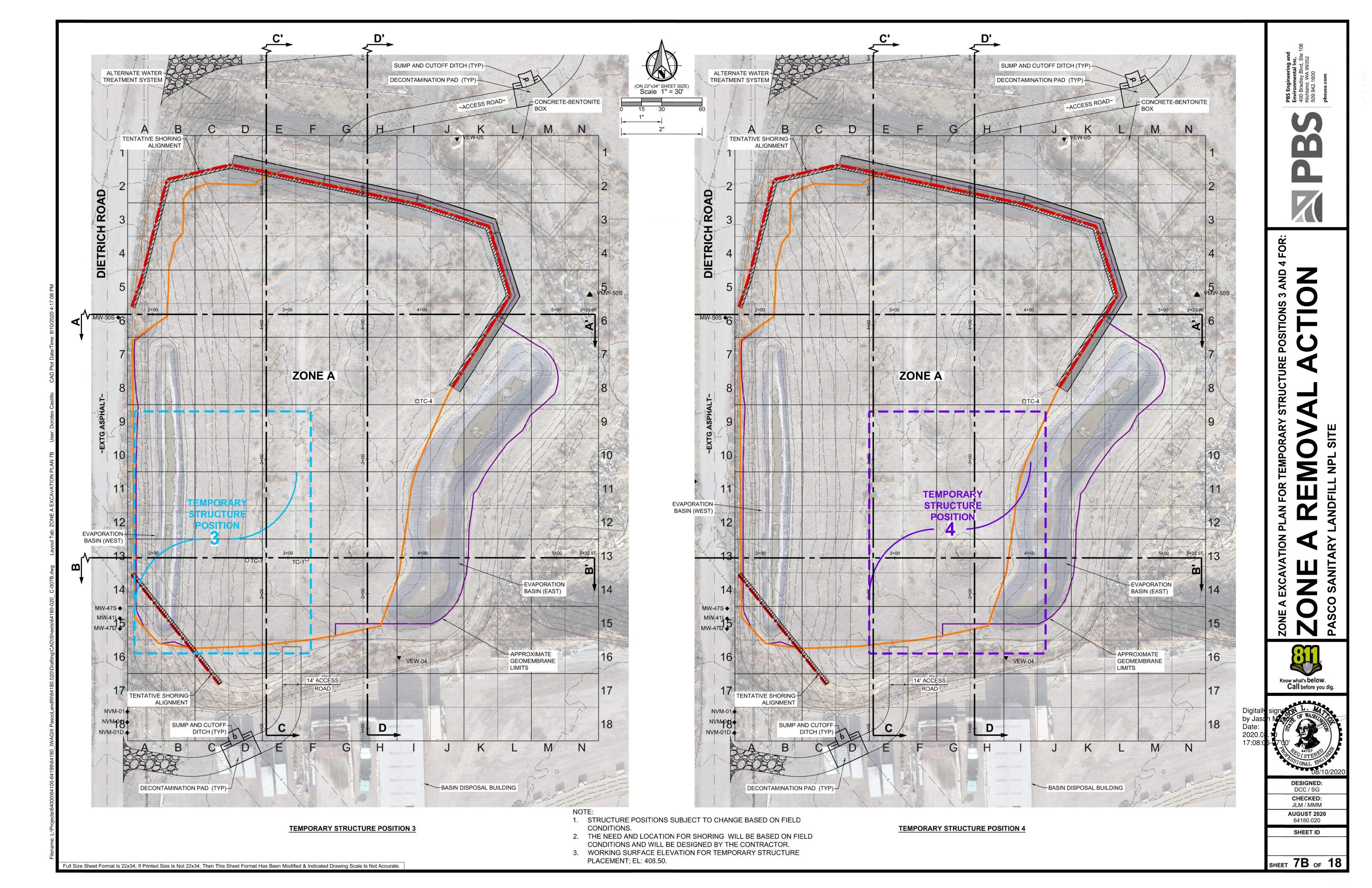
SHEET ID SHEET **7** OF **18**

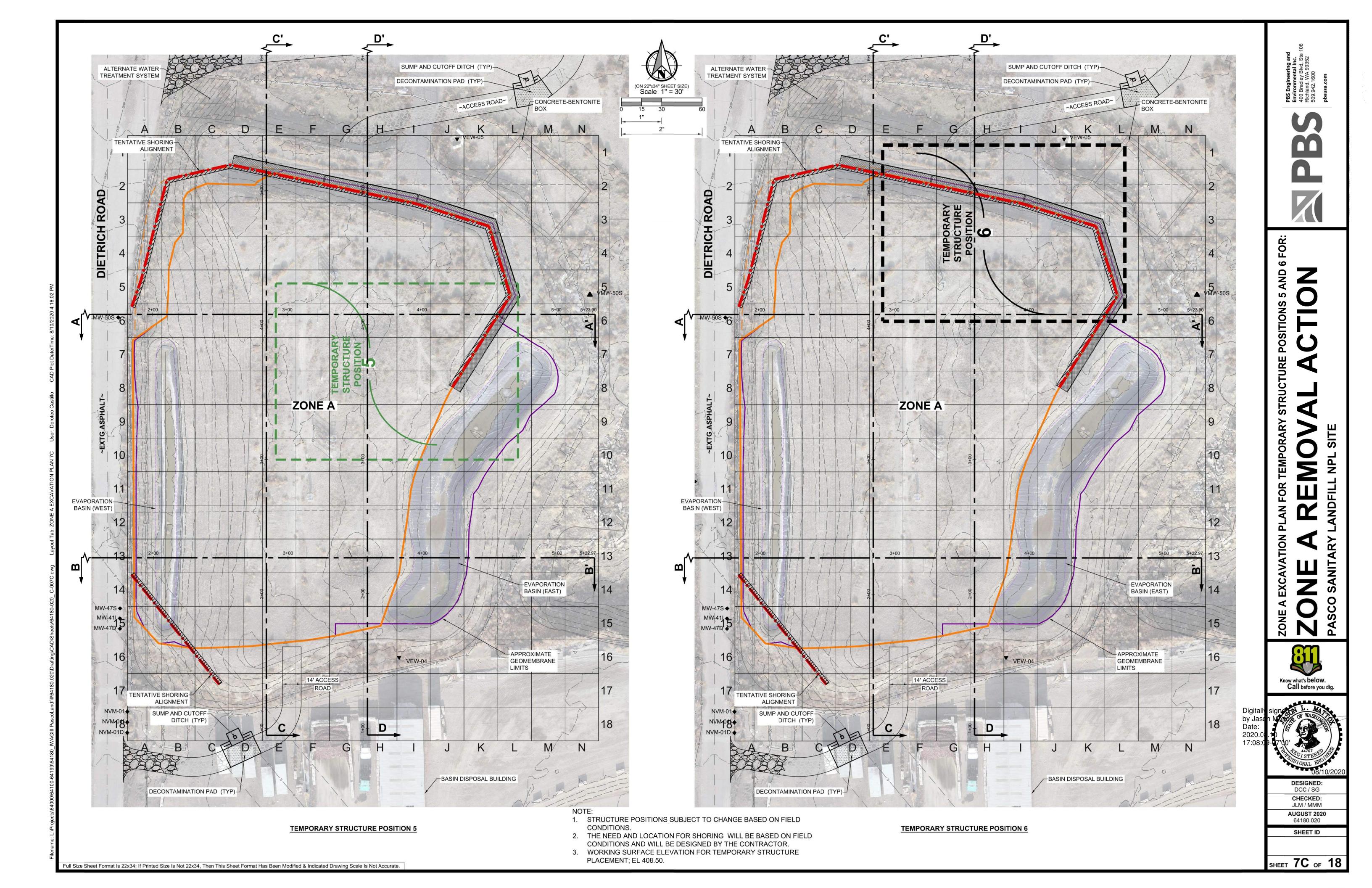




- 1. STRUCTURE POSITIONS SUBJECT TO CHANGE BASED ON FIELD CONDITIONS.
- 2. THE NEED AND LOCATION FOR SHORING WILL BE BASED ON FIELD CONDITIONS AND WILL BE DESIGNED BY THE CONTRACTOR.



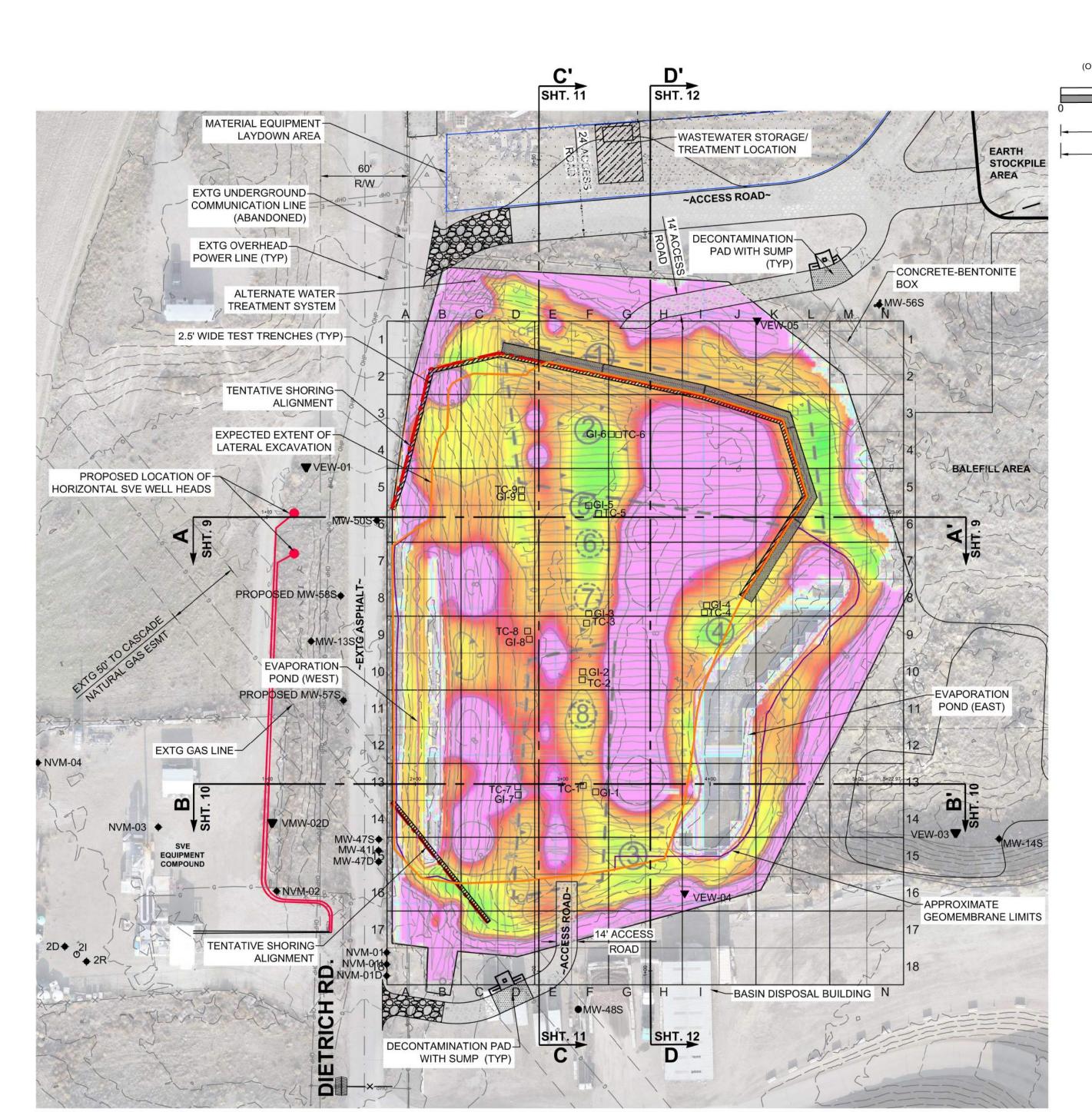




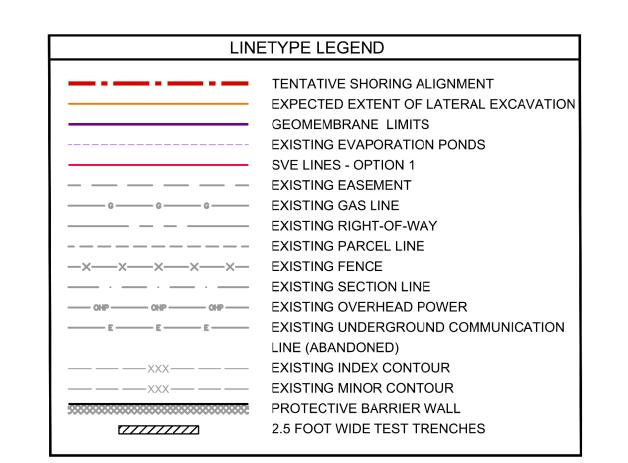
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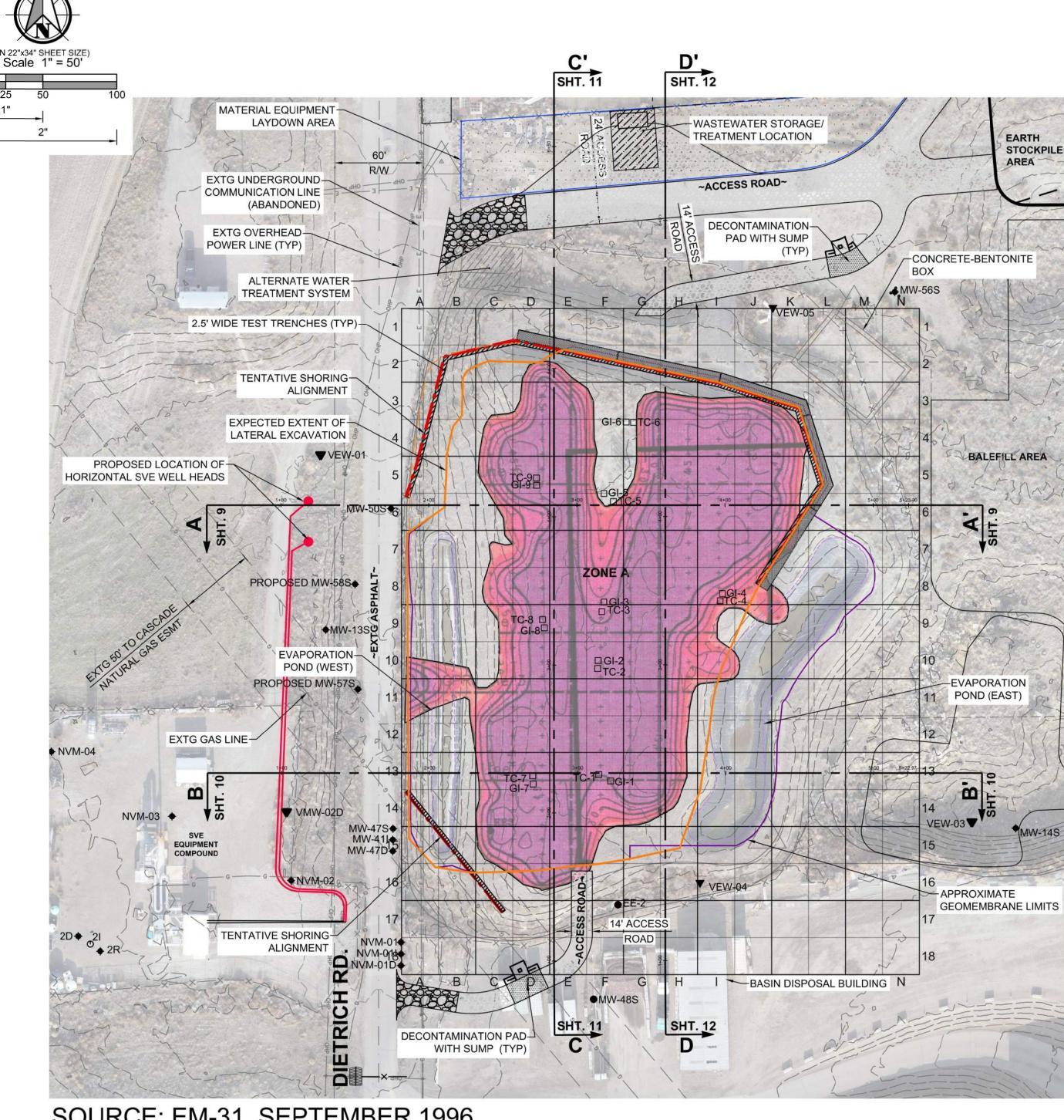
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SHEET 8 OF 18



SOURCE: EM61 - CHANNEL 3, APRIL 2009.





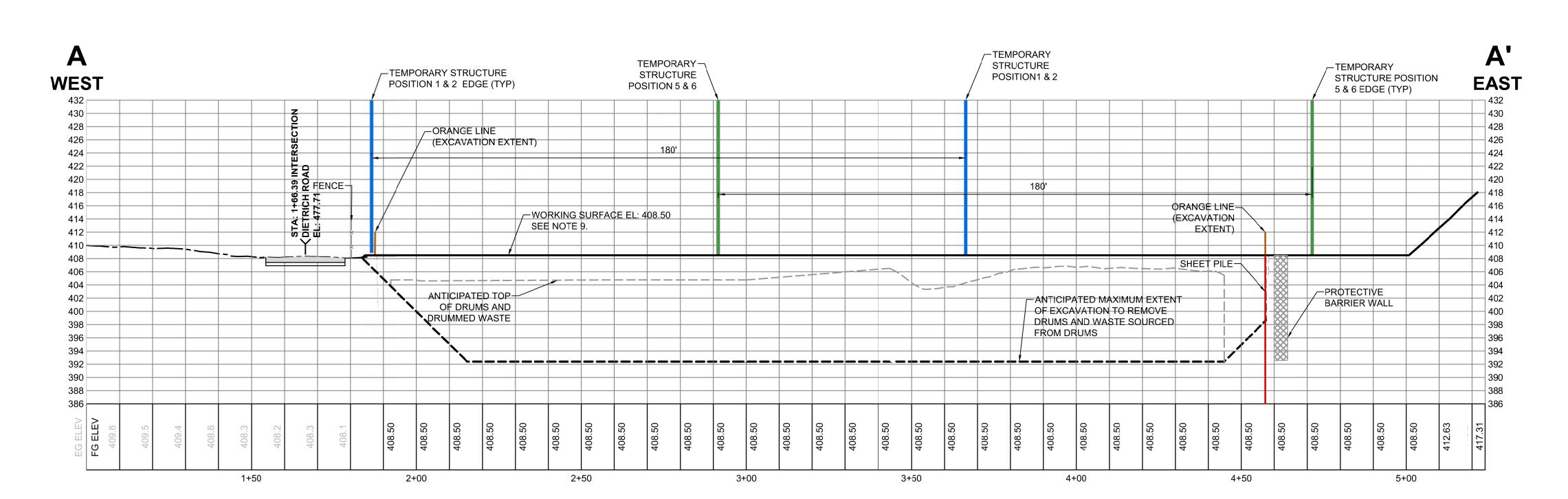
SOURCE: EM-31, SEPTEMBER 1996.

TEST TRENCHES WILL INFORM THE NEED FOR SHORING. EXTENTS SHOWN. IF REQUIRED, SHEET PILE WILL BE DESIGNED AND CONSTRUCTED BY THE GENERAL CONTRACTOR.

A-A' CROSS-SECTION - EAST / WEST

EXISTING CONDITIONS- NORTHERN SECTION

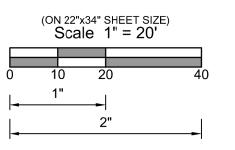
SCALE: 1" = 20' HORIZ.; 1" = 10' VERT.



A-A' CROSS SECTION - EAST / WEST

WORKING SURFACE - NORTHERN SECTION

SCALE: 1" = 20' HORIZ.; 1" = 10' VERT.

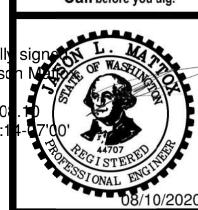


NOTE:

- 1. VERTICAL DATUM: NAVD 88.
- 2. STACKED DRUM DEPTH BASED ON LAYER THICKNESS IN CONSTRUCTION DOCUMENTATION AND O&M MANUAL.
- 3. DRUM DEPTH BASED ON BORELOGS ELEVATION AT TIME OF
- 4. INHERENT ANTICIPATED VARIABILITY IN BOTTOM OF
- 5. CROSS-SECTIONS ARE REPRESENTATIVE OF THE BORING INFORMATION LARGELY OBTAINED IN THE PERIMETER OF THE DRUM DEBRIS.
- 6. FINAL SHEET PILE DEPTH TO BE DESIGNED BY GENERAL CONTRACTOR PENDING TEST TRENCH AND CPT RESULTS.
- 7. THE GENERAL CONTRACTOR WILL INSTALL A WORKING PLATFORM THAT WILL PROVIDE A STABLE WORKING SURFACE FOR THE TEMPORARY STRUCTURE AND PREVENT VAPOR EMISSIONS AND AID IN ODOR CONTROL.
- 8. TEST TRENCHING WILL DETERMINE THE NEED FOR SHEET PILING OR OTHER SHORING ALONG DIETRICH ROAD BASED UPON THE EXTENT OF DRUMMED WASTE. EXCAVATION SHORING TO BE DESIGNED BY THE GENERAL CONTRACTOR FOLLOWING TEST TRENCHING ACTIVITIES.
- 9. WORKING SURFACE SECTION SHALL CONSIST OF POLYETHYLENE SHEETING, GEOGRID AND 6-INCHES OF COMPACTED GRAVEL. SEE SHEET 17, DETAIL A.

ABBREVIATION LEGEND		
GF	GEOFABRIC / GEOTEXTILE	
PG	PEA GRAVEL	
Н	HDPE LINER / GEOMEMBRANE	
GG	GEOGRID	
V	VISQUEEN LAYER	
TD	TOP OF DEBRIS	
BD	BOTTOM OF DEBRIS	
DR	DRUM PIECES	
END	END OF BOREHOLE	





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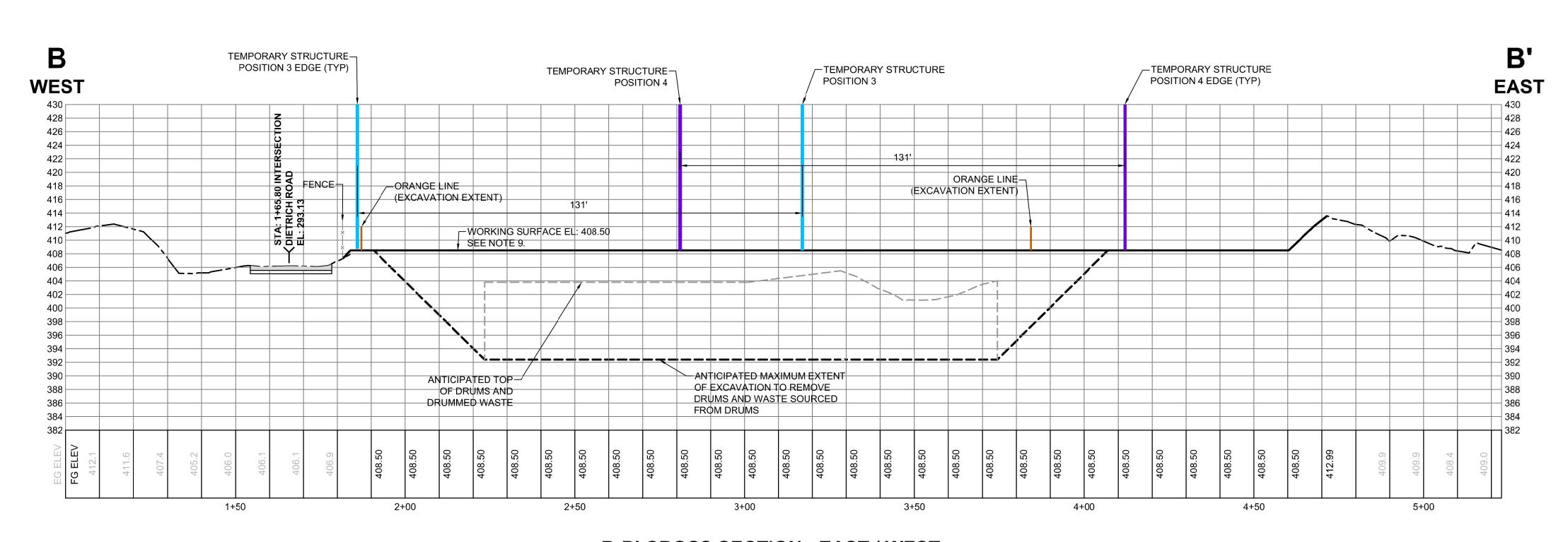
SHEET 9 OF 18

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B-B' CROSS-SECTION- EAST / WEST

EXISTING CONDITION - SOUTHERN SECTION

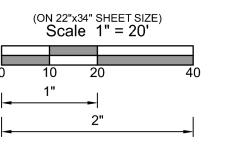
SCALE: 1" = 20' HORIZ.; 1" = 10' VERT.



B-B' CROSS SECTION - EAST / WEST

WORKING SURFACE - SOUTHERN SECTION

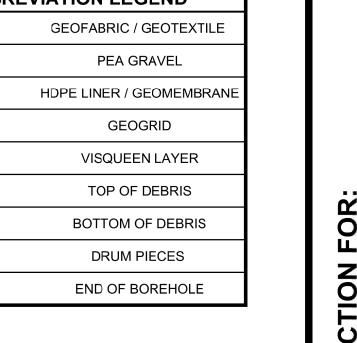
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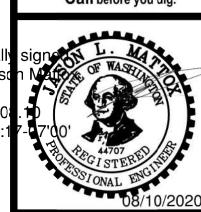
NOTE:

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ABBR	EVIATION LEGEND
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PG	PEA GRAVEL
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GG	GEOGRID
V	VISQUEEN LAYER
TD	TOP OF DEBRIS
BD	BOTTOM OF DEBRIS
DR	DRUM PIECES
END	END OF BOREHOLE







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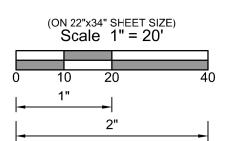
SHEET 10 OF 18

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ABBREVIATION LEGEND	
GF	GEOFABRIC / GEOTEXTILE
PG	PEA GRAVEL
Н	HDPE LINER / GEOMEMBRANE
GG	GEOGRID
V	VISQUEEN LAYER
TD	TOP OF DEBRIS
BD	BOTTOM OF DEBRIS
DR	DRUM PIECES
END	END OF BOREHOLE

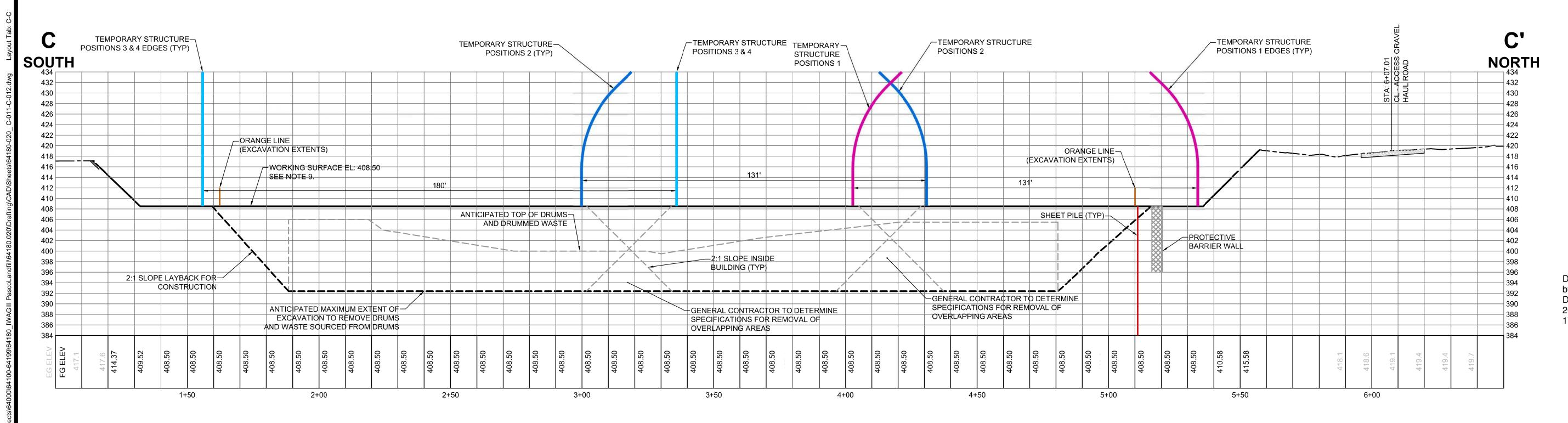
C-C' CROSS-SECTION - NORTH / SOUTH **EXISTING CONDITIONS - WESTERN SECTION**

SCALE: 1" = 20' HORIZ.; 1" = 10' VERT.



NOTE:

- 1. VERTICAL DATUM: NAVD 88.
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C-C' CROSS SECTION - NORTH / SOUTH

WORKING SURFACE- WESTERN SECTION

SCALE: 1" = 20' HORIZ.; 1" = 10' VERT.

OR:

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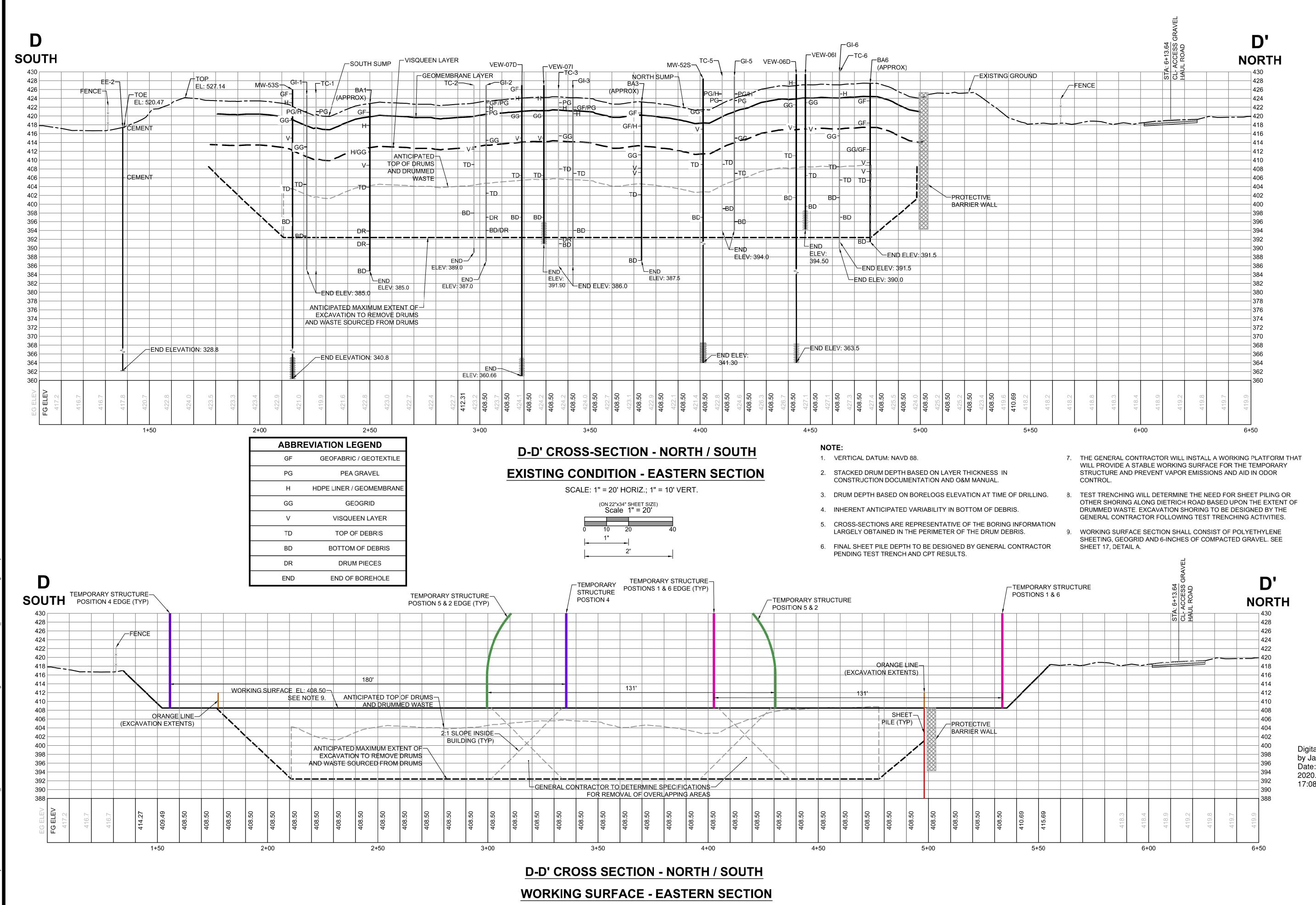
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400 Bradley Blvd, Ste 106 Richland, WA 99352
509.942.1600

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CROSS-SECTION FOR:

ONE A REM

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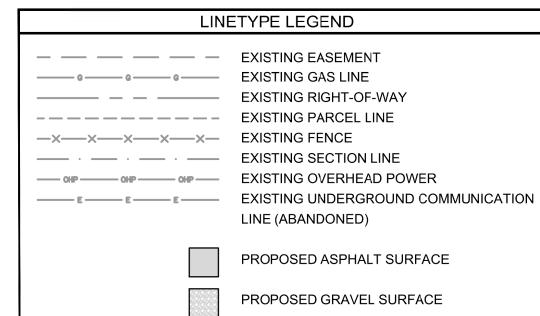
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Jasch Neutron Washington Neutron (198:22-17'00' A4707 (198:22-17'00') A4707 (198:22-17'00' A4707 (198:22-17'00') A4707 (198:22-17') A4707 (19

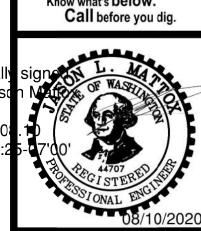
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SHEET 12 OF 18



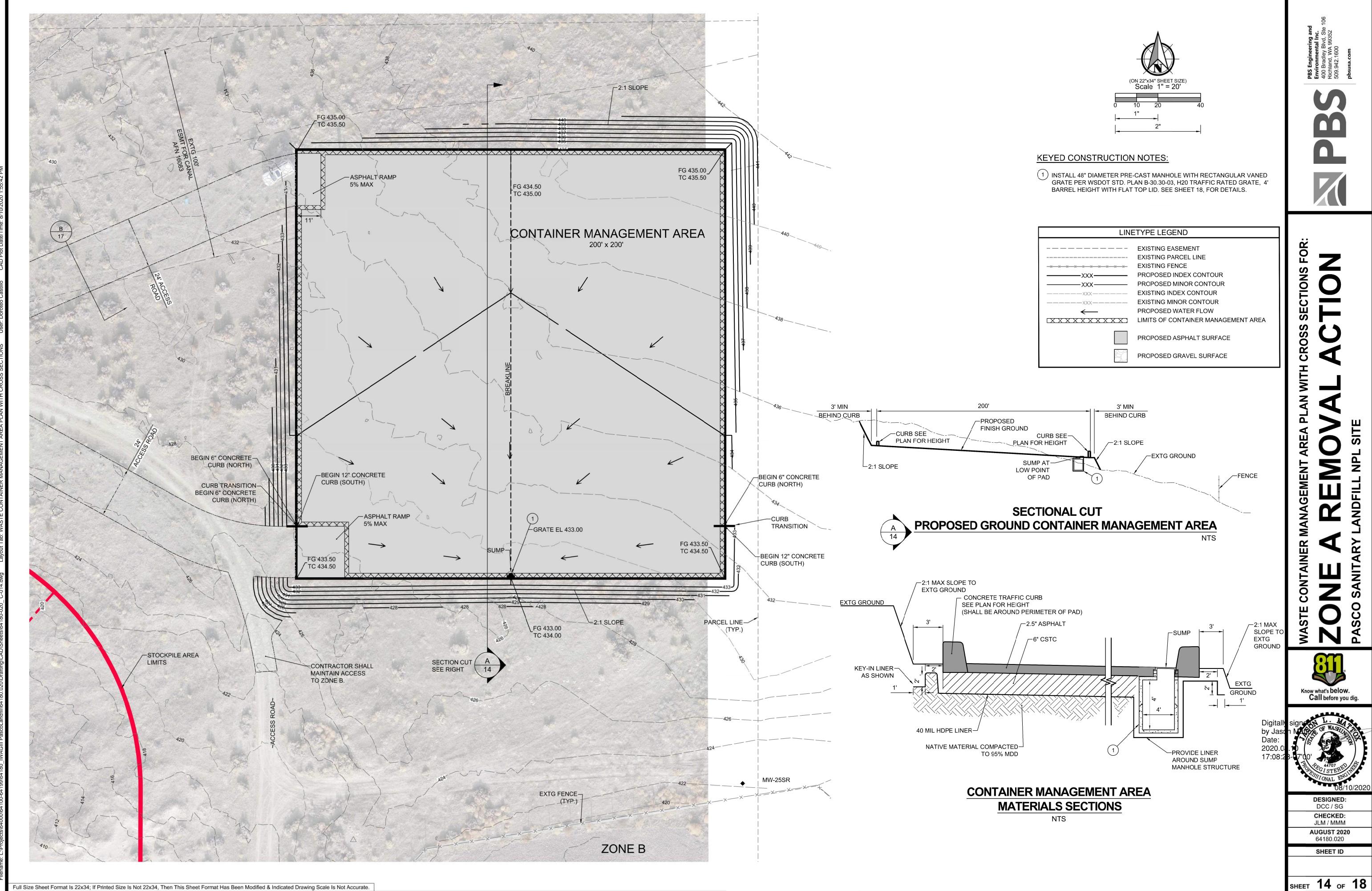
PROPOSED STABILIZED CONSTRUCTION ENTRANCE ENTRANCE

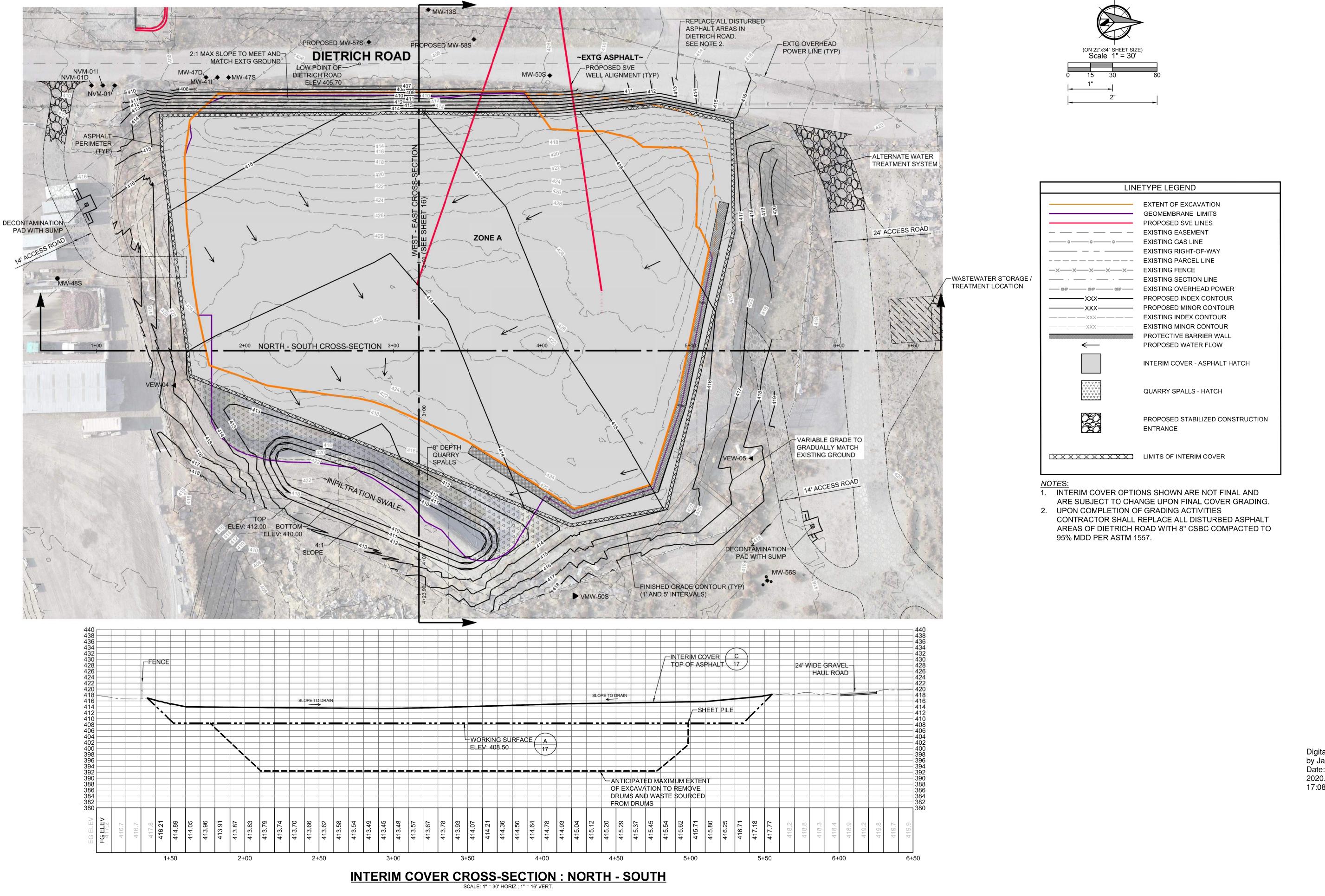


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SHEET 13 OF 18





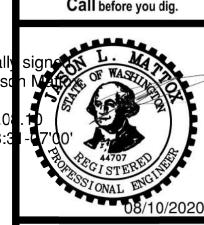
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PBS En Enviror 400 Bra Richlan 509.942 pbsusa

MOVAL ACTION

ZONE A REMOV

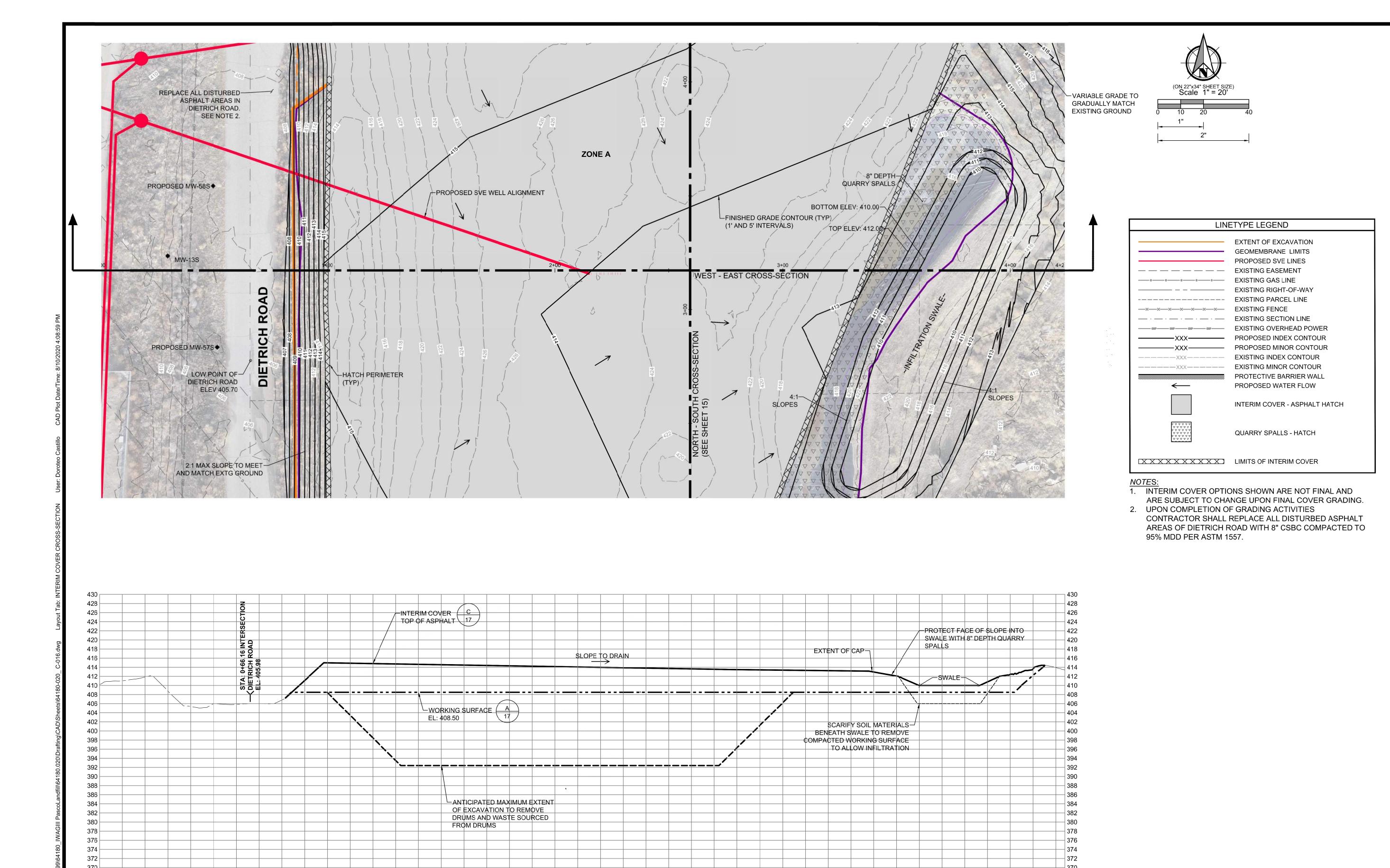




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SHEET ID

SHEET 15 OF 18



3+00

INTERIM COVER CROSS-SECTION: WEST-EAST SCALE: 1" = 30' HORIZ.; 1" = 16' VERT.

3+50

4+00

0+50

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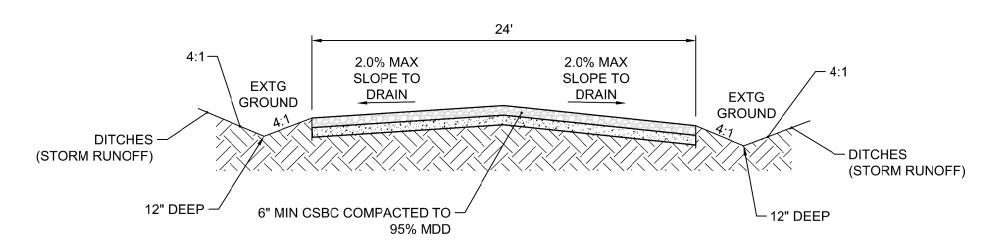
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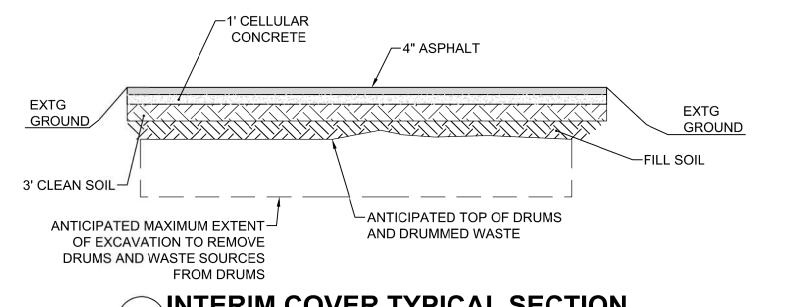
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SHEET 16 OF 18

WORKING SURFACE SECTION

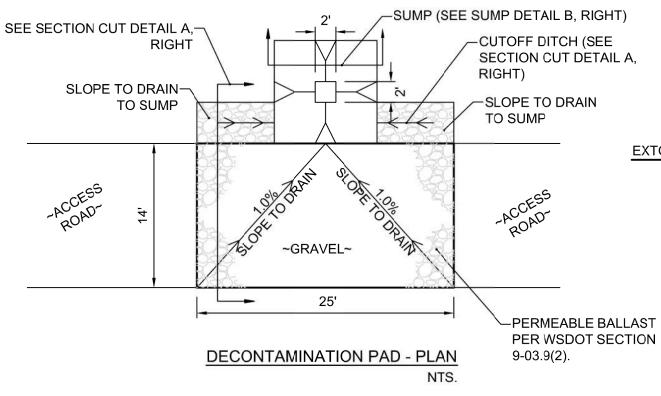


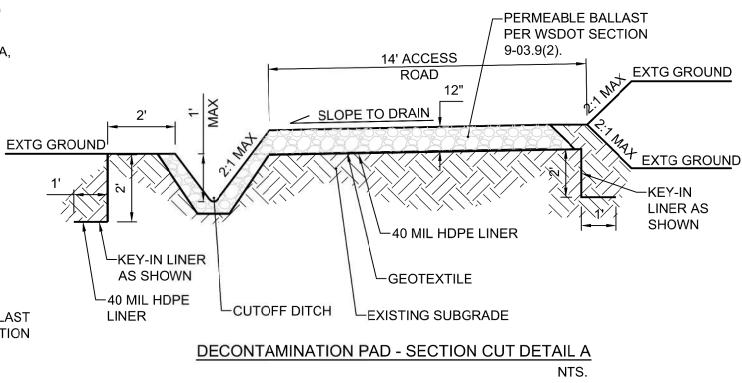
ACCESS ROAD TYPICAL SECTION

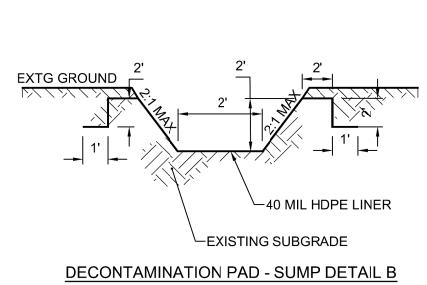


INTERIM COVER TYPICAL SECTION

NTS.







DECONTAMINATION PAD DETAIL

BMP C123E: Plastic Covering

Plastic covering provides immediate, short-term erosion protection to slopes and disturbed areas.

Plastic covering may be used on disturbed areas that require cover measures for < 30 days, with the following exceptions:

- Plastic is particularly useful for protecting cut-and-fill slopes and stockpiles. However, the relatively rapid breakdown of most polyethylene sheeting makes it unsuitable for applications > 6 months.
- Due to rapid runoff caused by plastic covering, do not use this method upslope of areas that might be adversely impacted by concentrated runoff. Such areas include steep and/or unstable slopes.
- Plastic sheeting may result in increased runoff volumes and velocities, requiring additional onsite measures to counteract the increases. Creating a trough with wattles or other material can convey clean water away from these areas.
- To prevent undercutting, trench and backfill plastic covering that comes in a rolled form.
- Although the plastic material is inexpensive to purchase, the cost of installation, maintenance, removal, and disposal add to the total costs of this BMP.
- Whenever plastic is used to protect slopes, install water collection measures at the base of the slope. These measures include plastic-covered berms, channels, and pipes used to convey clean rainwater away from bare soil and disturbed areas. Do not mix clean runoff from a plastic covered slope with dirty runoff from a project.
- Other uses for plastic include the following:
 - Temporary ditch liner
 - Pond liner in temporary sediment pond
 - Liner for bermed temporary fuel storage area if plastic is not reactive to the type of fuel
 - Emergency slope protection during heavy rains
 - Temporary drainpipe ("elephant trunk") used to direct water

Design and Installation Specifications

- Plastic slope cover must be installed according to the following procedure:
- 1. Run plastic up and down the slope, not across the slope.
- 2. Plastic may be installed perpendicular to slope if the slope length < 10 feet.

2019 Stormwater Management Manual for Eastern Washington

Chapter 7 - Page 813

3. Provide a minimum overlap of 8 inches at the seams.

- 4. On long or wide slopes, or slopes subject to wind, tape all seams.
- 5. Place plastic into a small (12-inch-wide by 6-inch-deep) slot trench at the top of the slope and backfill with soil to keep water from flowing underneath.
- 6. Place sand-filled burlap or geotextile bags every 3 to 6 feet along seams and tie them together with twine to hold them in place.
- 7. Inspect plastic for rips, tears, and open seams regularly and repair immediately. This prevents high-velocity runoff from contacting bare soil, which causes extreme erosion.
- 8. Sandbags may be lowered into place tied to ropes. However, all sandbags must be staked in place.
- Plastic sheeting shall have a minimum thickness of 0.06 millimeters.
- If erosion at the toe of a slope is likely, a gravel berm, riprap, or other suitable protection shall be installed at the toe of the slope in order to reduce the velocity of runoff.

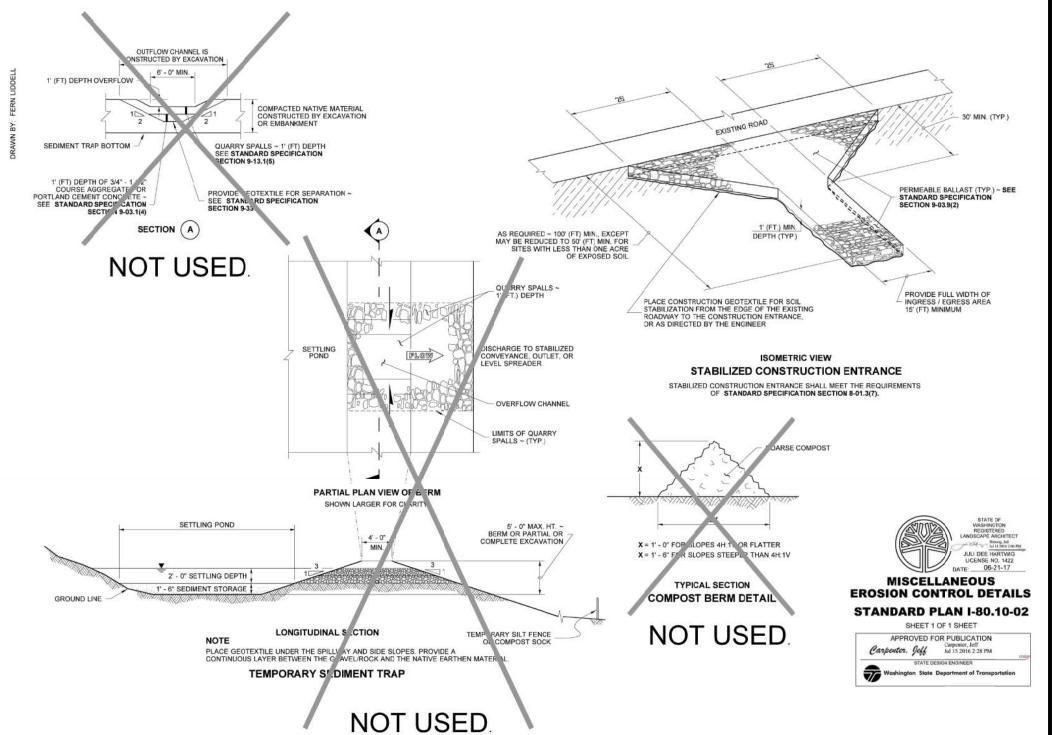
Maintenance Standards

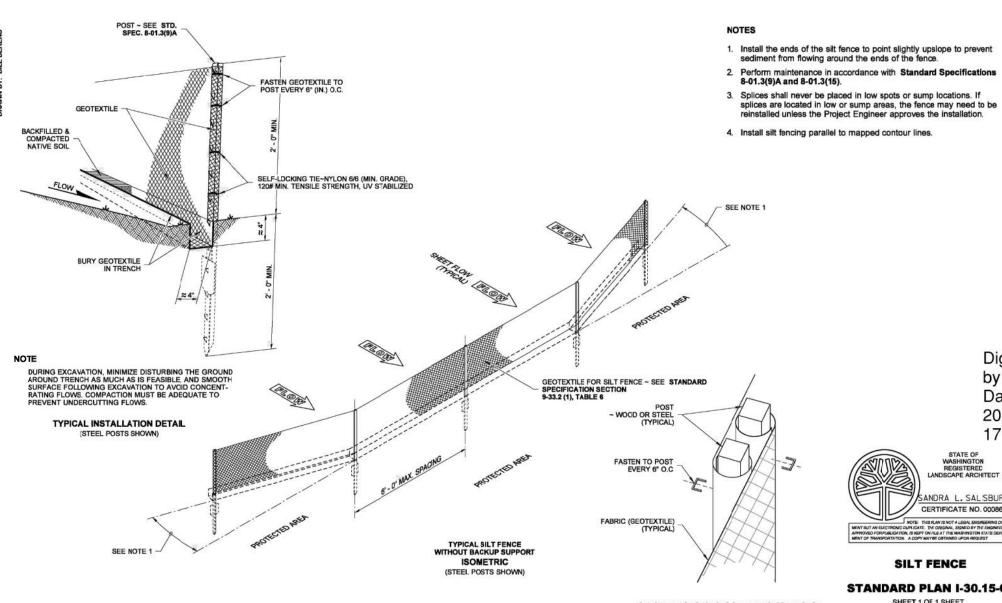
- Torn sheets must be replaced and open seams repaired.
- Completely remove and replace the plastic if it begins to deteriorate due to ultraviolet
- Completely remove plastic when no longer needed.
- · Dispose of old tires used to weight down plastic sheeting appropriately.

Approved as Functionally Equivalent

The Washington State Department of Ecology (Ecology) has approved products as able to meet the requirements of this BMP. The products did not pass through the Technology Assessment Protocol-Ecology (TAPE) process. Local jurisdictions may choose not to accept these products or may require additional testing prior to consideration for local use. The products that Ecology has approved as functionally equivalent are available for review on Ecology's Emerging Stormwater Treatment Technologies (TAPE) web page at the following address:

https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permitteeguidance-resources/Emerging-stormwater-treatment-technologies





SILT FENCE

SPLICE DETAIL

STANDARD PLAN I-30.15-02 SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION Pasco Bakotich III 3/22/13

AUGUST 2020 64180.020 SHEET ID

SHEET 17 OF 18

Know what's below.

DESIGNED: DCC / SG

CHECKED:

JLM / MMM

Call before you dig.

Full Size Sheet Format Is 22x34; If Printed Size Is Not 22x34, Then This Sheet Format Has Been Modified & Indicated Drawing Scale Is Not Accurate.

NOTES:

1. DESIGN FLOW RATE: 30 GPM

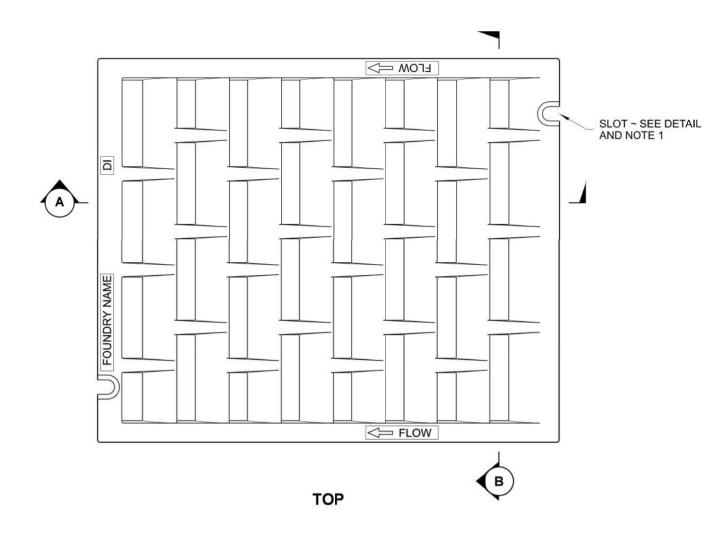
2. SYSTEM FOOTPRINT APPROXIMATELY 10'x20' 3. NOT ALL VALVES, CONNECTIONS, ETC. SHOWN FOR CLARITY

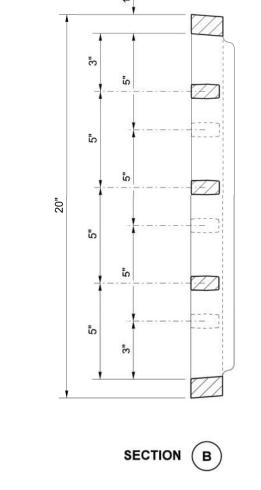
4. GENERATOR BY OTHERS.

5. TEMPORARY TREATMENT SYSTEM TO BE PLACED WITHIN WASTEWATER STORAGE/TREATMENT LOCATION AS

DEPICTED ON THE PLANS.

WASTEWATER TREATMENT DETAIL - PLAN VIEW



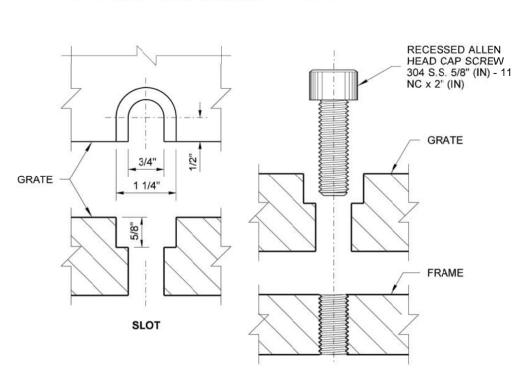


NOTES

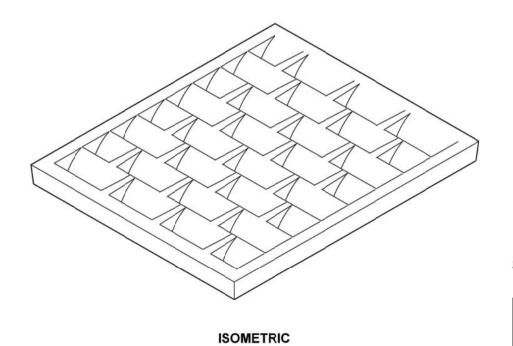
 Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC × 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.

Refer to Standard Specification Section 9-05.15 and 9-05.15(2) for additional requirements.

3. For frame details, see Standard Plan B-30.10.



BOLT-DOWN DETAILS SEE NOTE 1



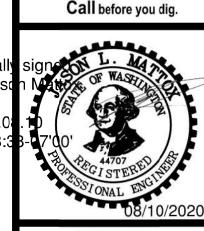


VANED GRATE STANDARD PLAN B-30.30-03

> SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION Carpenter, Jeff Feb 27 2018 7:58 AM







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7 OR 8 EQUAL SPACES __ DIRECTION OF FLOW