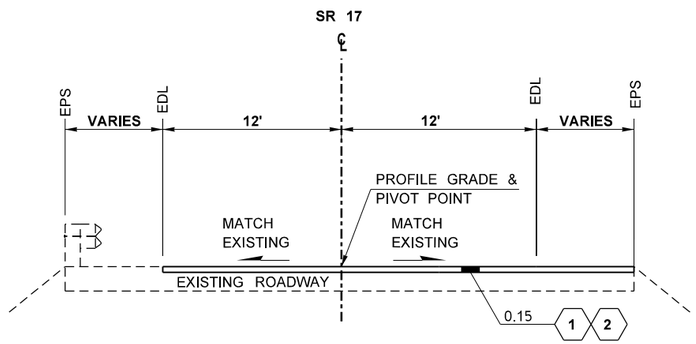
# PROJECT LICENSED PROFESSIONAL CERTIFICATES

| | | | |
|---|---|---|---|
| Kurt Wiseman<br>Kurt Wiseman (Jun 27, 2023 15:37 PDT)<br>Kurt Wiseman<br>Jun 27, 2023<br>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. | Gabriel Taylor<br>Jun 27, 2023<br>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. | Geoffrey D Swett<br>Jun 28, 2023<br>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. | AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. |
| AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. | AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. | AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. | AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. |
| AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. | AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. | AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. | AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION. |

NOTES:

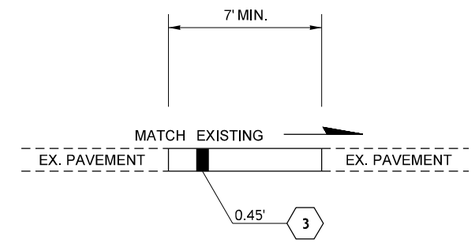
THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.




## ROADWAY SECTION A

MP 76.57 - MP 76.63
MP 76.87 - MP 77.07
MP 77.36 - MP 77.43
MP 83.05 - MP 83.61
MP 85.06 - MP 85.09




## FORCE ACCOUNT PAVEMENT PATCHING

FORCE ACCOUNT PAVEMENT PATCHING WILL BE STAKED
BY THE ENGINEER AFTER SCALING IS COMPLETE

## LEGEND:

1. PLANING BITUMINOUS PAVEMENT
2. HMA CL. 3/8 IN. PG 64H-28
3. FORCE ACCOUNT PAVEMENT PATCHING

EPS = EDGE OF PAVED SHOULDER
EDL = EDGE OF DRIVING LANE
LL = LANE LINE

GENERAL NOTE:

1. SEE SPECIAL PROVISION "FORCE ACCOUNT PAVEMENT PATCHING."

NOT TO SCALE

| | |
|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_RS.dgn |
| TIME | 8:52:45 AM |
| DATE | 6/15/2023 |
| PLOTTED BY | Kevin.Cronenwett |
| DESIGNED BY | A. SCHULTZ |
| ENTERED BY | K. CRONENWETT |
| CHECKED BY | K. WISEMAN |
| PROJ. ENGR. | M. CASTILLO |
| REGIONAL ADM. | D. BIERSCHBACH |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER 24B001
CONTRACT NO.
LOCATION NO. XL-6412

P.E. STAMP BOX — SEE CT1 DATE

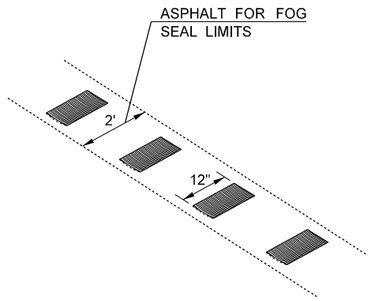
PERTEET
123 OHME GARDEN ROAD, SUITE B
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

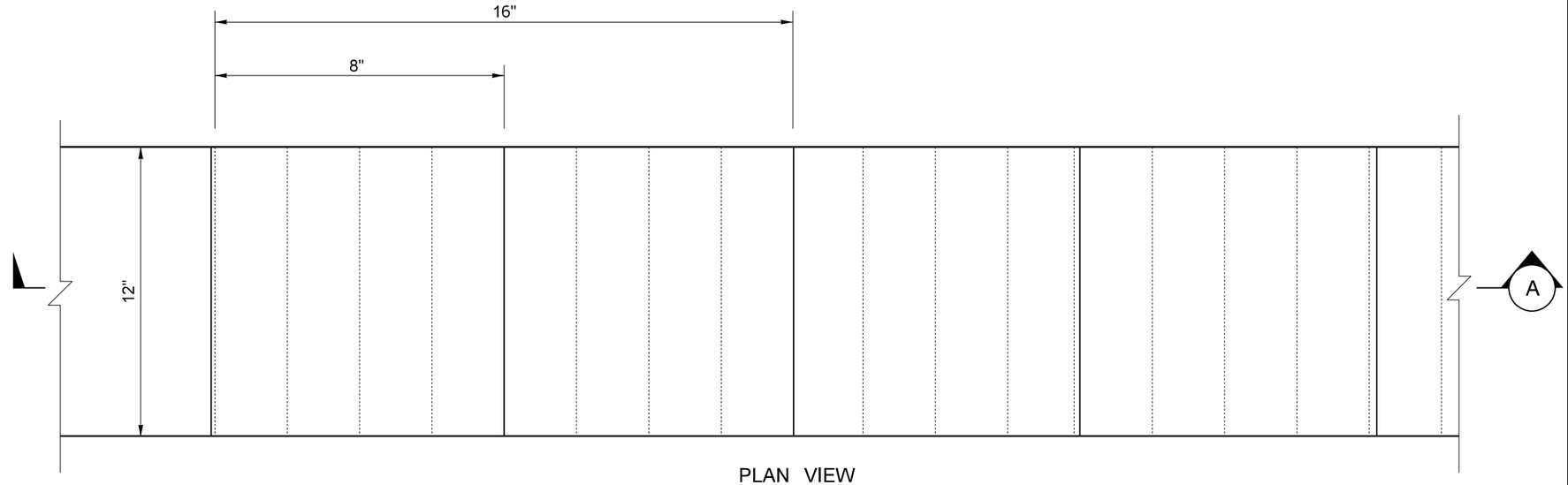
ROADWAY SECTIONS

Plot 1
PLAN REF NO RS1
SHEET 6 OF 65 SHEETS



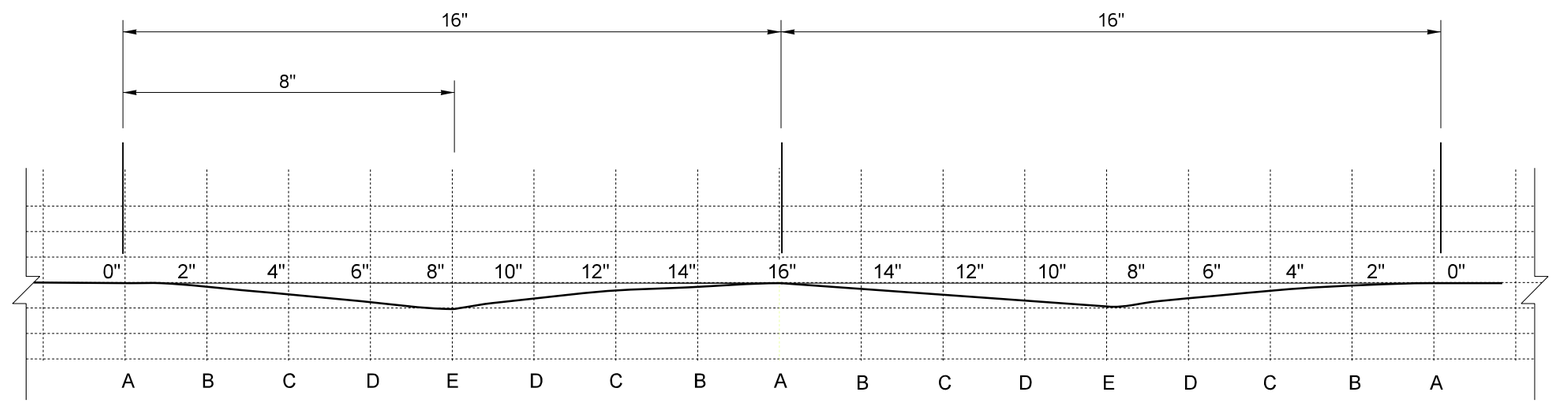

## FOG SEAL LIMITS

FOR SINUSOIDAL CENTERLINE APPLICATION




PLAN VIEW

| PROFILE DEPTHS | |
|---|---|
| LOCATION | DEPTH (IN) |
| A | 0.00 |
| B | 0.10 |
| C | 0.25 |
| D | 0.45 |
| E | 0.50 |




PROFILE VIEW

SECTION (A)

NOTES:

1. RUMBLE STRIPS, AS SHOWN ON THIS PLAN, SHALL NOT BE CONSTRUCTED ON BRIDGE DECKS OR BRIDGE APPROACH SLABS, OR ACROSS THE FULL WIDTH OF RAMPS.
2. FOR RUMBLE STRIPS PLACED ON CENTERLINE, SEE STD. PLAN M-65.10 FOR PLACEMENT DETAILS.
3. SEE SPECIAL PROVISION "SINUSOIDAL RUMBLE STRIP".

# SINUSOIDAL RUMBLE STRIP (CENTERLINE)

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_RS.dgn | | | | | | |
| TIME | 8:52:46 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | LOCATION NO. XL-6412 | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

KIRK WILLIAM WISEMAN, STATE OF WASHINGTON, 56344, REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

ROADWAY SECTIONS

Plot 2
PLAN REF NO RS2
SHEET 7 OF 65 SHEETS

## ASPHALT FOR FOG SEAL

| SLOPE | MP | MP | VOLUME (TON) |
|---|---|---|---|
| 11 | 76.57 | 76.63 | 0.02 |
| 1 | 76.87 | 76.94 | 0.02 |
| 2 | 76.94 | 77.02 | 0.02 |
| 9 | 77.02 | 77.07 | 0.02 |
| 3 | 77.36 | 77.43 | 0.02 |
| 7 | 83.05 | 83.28 | 0.10 |
| 8 | 83.28 | 83.61 | 0.10 |
| 10 | 85.06 | 85.09 | 0.01 |
| | | TOTAL: | 0.31 |

## HMA CL. 3/8 IN PG 64H-28

| SLOPE | MP | MP | VOLUME (TON) |
|---|---|---|---|
| 11 | 76.57 | 76.63 | 81 |
| 1 | 76.87 | 76.94 | 108 |
| 2 | 76.94 | 77.02 | 108 |
| 9 | 77.02 | 77.07 | 109 |
| 3 | 77.36 | 77.43 | 114 |
| 7 | 83.05 | 83.28 | 454 |
| 8 | 83.28 | 83.61 | 454 |
| 10 | 85.06 | 85.09 | 49 |
| | | TOTAL: | 1477 |

## TEMPORARY PAVEMENT MARKING-SHORT DURATION

SEE STANDARD PLAN M-24.60

| SLOPE | MP | MP | YELLOW DOUBLE CENTERLINE (L.F.) |
|---|---|---|---|
| 11 | 76.57 | 76.63 | 528 |
| 1 | 76.87 | 76.94 | 705 |
| 2 | 76.94 | 77.02 | 705 |
| 9 | 77.02 | 77.07 | 705 |
| 3 | 77.36 | 77.43 | 740 |
| 7 | 83.05 | 83.28 | 2,953 |
| 8 | 83.28 | 83.61 | 2,953 |
| 10 | 85.06 | 85.09 | 316 |
| | | TOTAL: | 9,605 |

## FLEXIBLE GUIDE POSTS

| SLOPE | MP | MP | QTY (EACH) |
|---|---|---|---|
| 11 | 76.57 | 76.63 | 2 |
| 1 | 76.87 | 76.94 | 4 |
| 2 | 76.94 | 77.02 | 4 |
| 9 | 77.02 | 77.07 | 2 |
| 3 | 77.36 | 77.43 | 2 |
| 7 | 83.05 | 83.28 | 9 |
| 8 | 83.28 | 83.61 | 8 |
| 10 | 85.06 | 85.09 | 2 |
| | | TOTAL: | 33 |

## PLANING BITUMINOUS PAVEMENT

| SLOPE | MP | MP | AREA (SY) |
|---|---|---|---|
| 11 | 76.57 | 76.63 | 792 |
| 1 | 76.87 | 76.94 | 1057 |
| 2 | 76.94 | 77.02 | 1057 |
| 9 | 77.02 | 77.07 | 1057 |
| 3 | 77.36 | 77.43 | 1110 |
| 7 | 83.05 | 83.28 | 4430 |
| 8 | 83.28 | 83.61 | 4430 |
| 10 | 85.06 | 85.09 | 474 |
| | | TOTAL: | 14407 |

## INLET PROTECTION

| SLOPE | MP | QTY (EACH) |
|---|---|---|
| 8 | 83.56 | 1 |
| | TOTAL: | 1 |

## PAINT LINE

SEE STANDARD PLAN M-20.10

| SLOPE | MP | MP | LEFT WHITE EDGE LINE (L.F.) | RIGHT WHITE EDGE LINE (L.F.) | YELLOW DOUBLE CENTERLINE (L.F.) |
|---|---|---|---|---|---|
| 11 | 76.57 | 76.63 | 264 | 264 | 264 |
| 1 | 76.87 | 76.94 | 352 | 352 | 352 |
| 2 | 76.94 | 77.02 | 352 | 352 | 352 |
| 9 | 77.02 | 77.07 | 353 | 353 | 353 |
| 3 | 77.36 | 77.43 | 370 | 370 | 370 |
| 7 | 83.05 | 83.28 | 1,476 | 1,476 | 1,476 |
| 8 | 83.28 | 83.61 | 1,477 | 1,477 | 1,477 |
| 10 | 85.06 | 85.09 | 158 | 158 | 158 |
| | | SUBTOTAL: | 4,802 | 4,802 | 4,802 |
| | | | | TOTAL: | 14,406 |

## SINUSOIDAL RUMBLE STRIP

SEE SHEET RS2

| SLOPE | MP | MP | LENGTH (MI.) |
|---|---|---|---|
| 11 | 76.57 | 76.63 | 0.06 |
| 1 | 76.87 | 76.94 | 0.07 |
| 2 | 76.94 | 77.02 | 0.08 |
| 9 | 77.02 | 77.07 | 0.05 |
| 3 | 77.36 | 77.43 | 0.07 |
| | | TOTAL: | 0.33 |

## CENTERLINE RUMBLE STRIP

SEE STANDARD PLAN M-65.10

| SLOPE | MP | MP | LENGTH (MI.) |
|---|---|---|---|
| 7 | 83.05 | 83.28 | 0.23 |
| 8 | 83.28 | 83.61 | 0.33 |
| 10 | 85.06 | 85.09 | 0.03 |
| | | TOTAL: | 0.59 |

## PLANING SHOULDER DRAINAGE CUTOUT

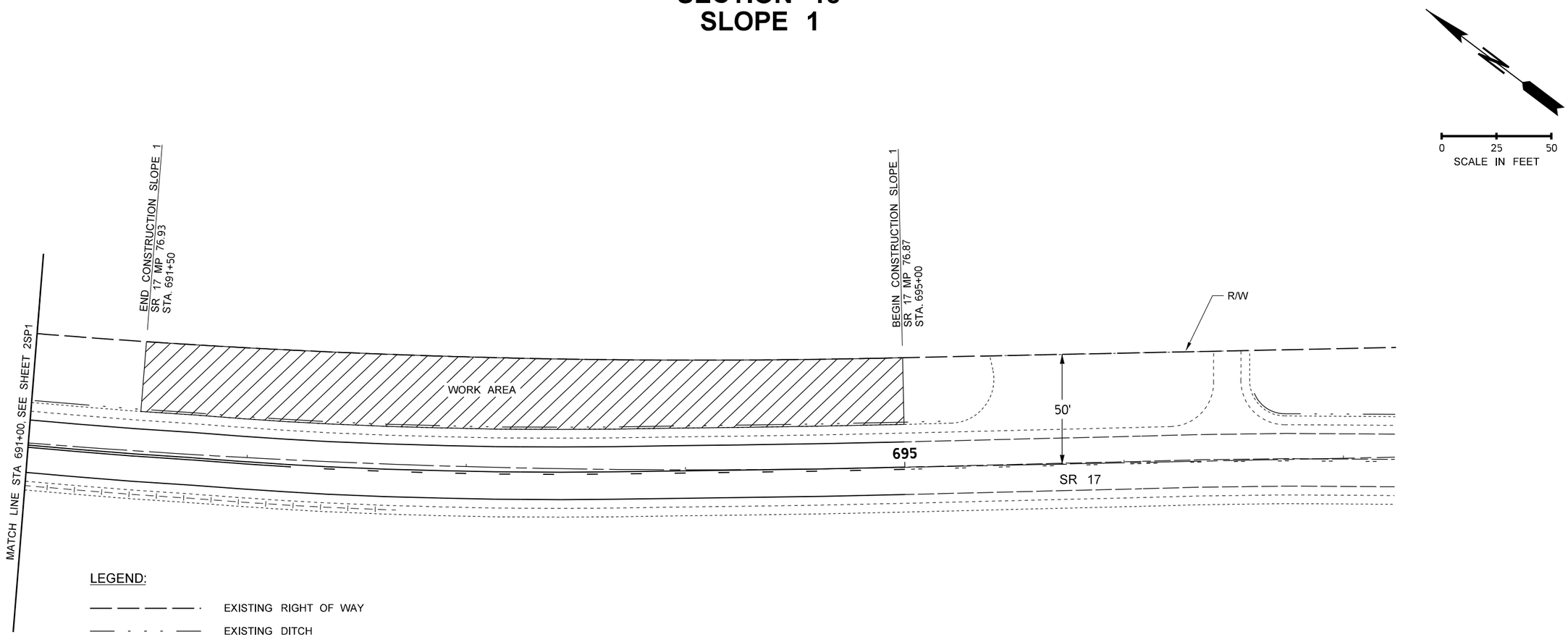
SEE SPECIAL PROVISION
"PLANING SHOULDER DRAINAGE CUTOUT"

| SLOPE | MP | MP | QTY (EACH) |
|---|---|---|---|
| 11 | 76.57 | 76.63 | 1 |
| 1 | 76.87 | 76.94 | 1 |
| 2 | 76.94 | 77.02 | 1 |
| 9 | 77.02 | 77.07 | 1 |
| 3 | 77.36 | 77.43 | 1 |
| 7 | 83.05 | 83.28 | 3 |
| 8 | 83.28 | 83.61 | 3 |
| 10 | 85.06 | 85.09 | 1 |
| | | TOTAL: | 12 |

NOTES:

1. SEE SPECIAL PROVISION "PLANING SHOULDER DRAINAGE CUTOUT."
2. SEE SPECIAL PROVISION "GUIDE POSTS."
3. SEE SPECIAL PROVISION "TEMPORARY PAVEMENT MARKINGS - SHORT DURATION."
4. SEE DETAIL ON SHEET RS2 FOR ADDITIONAL SINUSOIDAL RUMBLE STRIP INFORMATION.

# T. 22N. R. 27E. W.M.
# SECTION 18
# SLOPE 1




LEGEND:

| | |
|---|---|
| —— —— —— —— · | EXISTING RIGHT OF WAY |
| —— - - - —— | EXISTING DITCH |
| - BT — — BT — — BT - | EXISTING BURIED TELEPHONE |
| - - - - - - - - - - - - - - - - - | EXISTING EDGE OF ROADWAY |
| -\|— —\|— —\|— —\|— — | EXISTING GUARDRAIL |
| - - - - - - | EXISTING LANE LINE |
| - - — - - — - - — | EXISTING NO PASS LINE |
| ═ ═ ═ ═ ═ ═ | EXISTING DOUBLE YELLOW CENTERLINE |
| — — — — — — | EXISTING EDGE OF DRIVING LANE |
| - - - - - - - - - - - - - - - - - | EXISTING EDGE OF PAVED SHOULDER |
| - - - - - - - - - - - - - - - - - - - - | EXISTING EDGE OF GRAVEL SHOULDER |
| — — — | PAINT LINE (YELLOW CENTERLINE) |
| — — — | PAINT LINE (YELLOW NO PASS) |
| ═══ | PAINT LINE (YELLOW DOUBLE CENTERLINE) |
| ——— | PAINT LINE (WHITE EDGE) |

GENERAL NOTES:

1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
4. ALL STATIONS ARE APPROXIMATE.
5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 1.dgn | | | | | | |
| TIME | 4:02:58 PM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/26/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBECH | REVISION | DATE | BY | | | |

MICHAEL WISEMAN, STATE OF WASHINGTON, 56344, REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

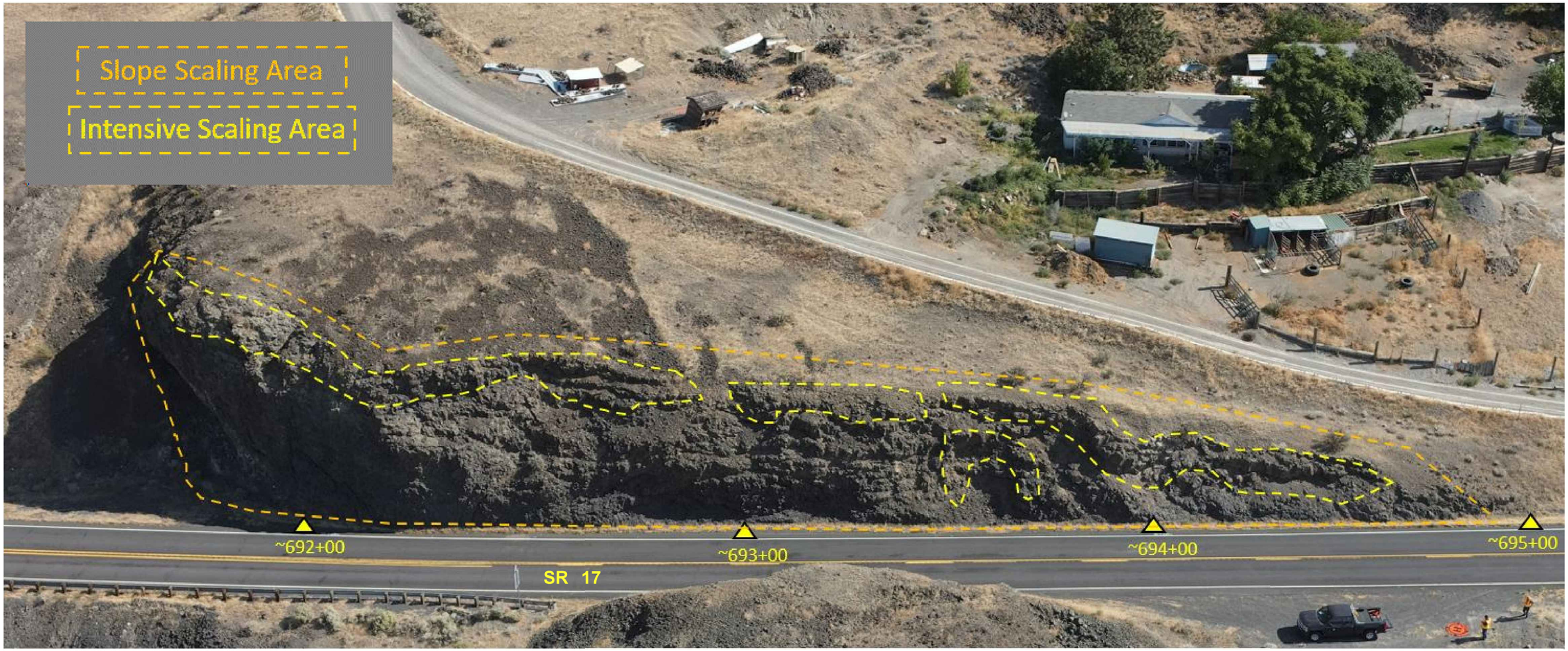
SLOPE 1 SITE PLAN

Plot 1
PLAN REF NO 1SP1
SHEET 9 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 22N. R. 27E. W.M.
# SECTION 18
# SLOPE 1




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 1.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:52:53 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBECH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

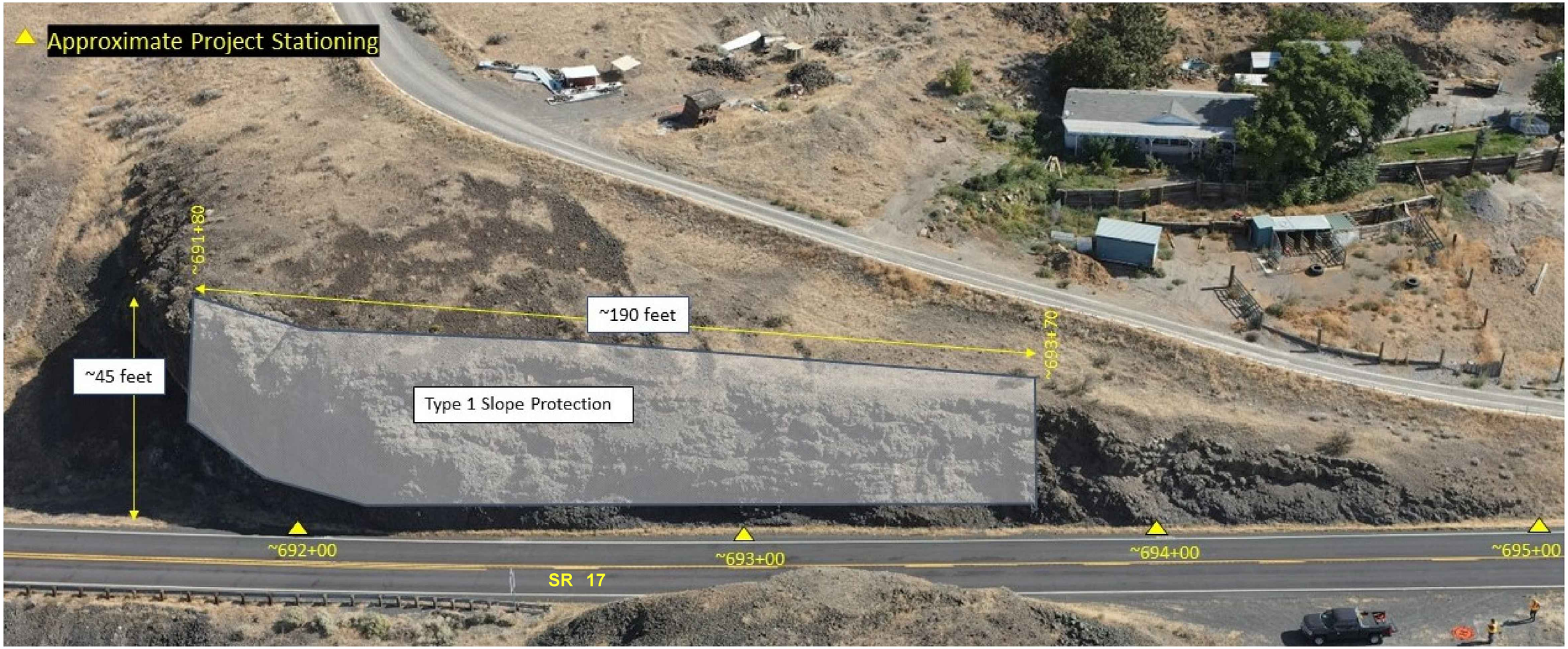
SLOPE 1 STABILIZATION PLAN

Plot 2
PLAN REF NO 1ST1
SHEET 10 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 22N. R. 27E. W.M.
# SECTION 18
# SLOPE 1




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 1.dgn | | | | | | |
| TIME | 8:52:53 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBECH | REVISION | DATE | BY | | | |

State of Washington, Engineering Geologist, 2869, Licensed Geologist — Gabriel L. Taylor — SEE CT1 — DATE — P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

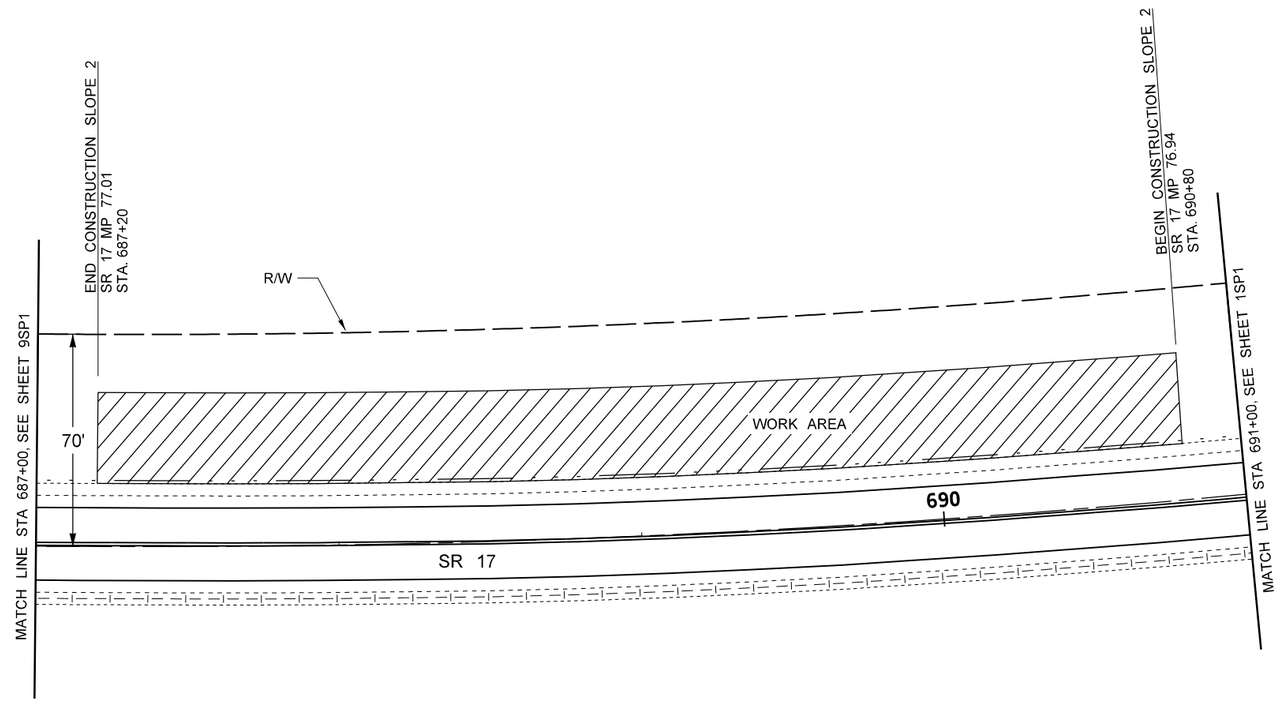
Washington State Department of Transportation

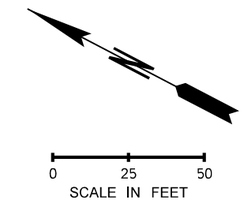
SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 1 STABILIZATION PLAN

Plot 3
PLAN REF NO 1ST2
SHEET 11 OF 65 SHEETS

# T. 22N. R. 27E. W.M.
# SECTION 18
# SLOPE 2




LEGEND:

- EXISTING RIGHT OF WAY
- EXISTING DITCH
- EXISTING BURIED TELEPHONE
- EXISTING EDGE OF ROADWAY
- EXISTING GUARDRAIL
- EXISTING LANE LINE
- EXISTING NO PASS LINE
- EXISTING DOUBLE YELLOW CENTERLINE
- EXISTING EDGE OF DRIVING LANE
- EXISTING EDGE OF PAVED SHOULDER
- EXISTING EDGE OF GRAVEL SHOULDER
- PAINT LINE (YELLOW CENTERLINE)
- PAINT LINE (YELLOW NO PASS)
- PAINT LINE (YELLOW DOUBLE CENTERLINE)
- PAINT LINE (WHITE EDGE)

GENERAL NOTES:

1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
4. ALL STATIONS ARE APPROXIMATE.
5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

| | | | | |
|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 2.dgn | | | |
| TIME | 4:03:06 PM | | | |
| DATE | 6/26/2023 | | | |
| PLOTTED BY | Kevin.Cronenwett | | | |
| DESIGNED BY | A. SCHULTZ | | | |
| ENTERED BY | K. CRONENWETT | | | |
| CHECKED BY | K. WISEMAN | | | |
| PROJ. ENGR. | M. CASTILLO | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY |

| REGION NO. | STATE | FED.AID PROJ.NO. |
|---|---|---|
| 10 | WASH | |
| JOB NUMBER 24B001 | | |
| CONTRACT NO. | | LOCATION NO. XL-6412 |

SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 2 SITE PLAN

Plot 1
PLAN REF NO 2SP1
SHEET 12 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 22N. R. 27E. W.M.
# SECTION 18
# SLOPE 2

NOT TO SCALE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 2.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. | |
| TIME | 8:52:55 AM | | | | 10 | WASH | | |
| DATE | 6/15/2023 | | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER | | | |
| DESIGNED BY | A. SCHULTZ | | | | 24B001 | | | |
| ENTERED BY | K. CRONENWETT | | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. | |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist

Gabriel L. Taylor — SEE CT1 — DATE

P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 2 STABILIZATION PLAN

Plot 2

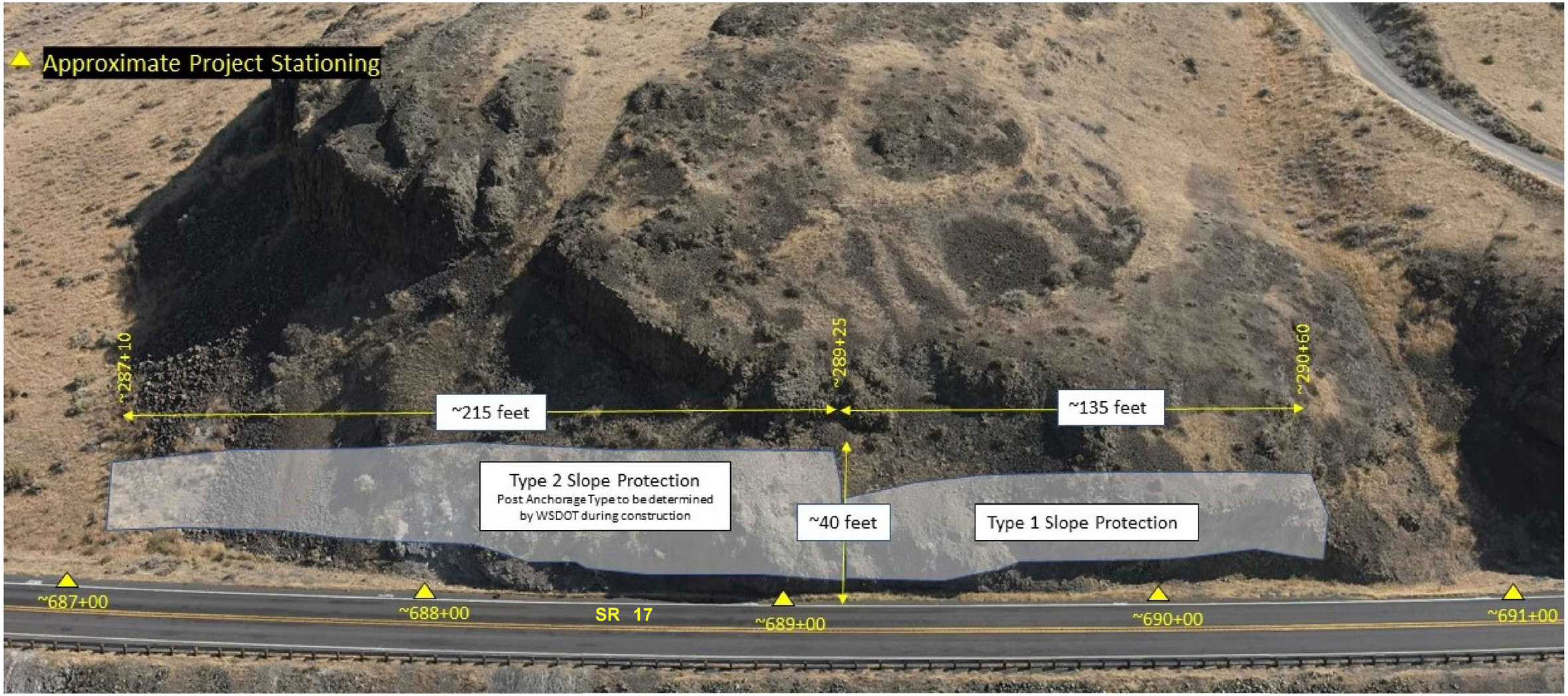
PLAN REF NO 2ST1

SHEET 13 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 22N. R. 27E. W.M.
# SECTION 18
# SLOPE 2




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 2.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:52:56 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

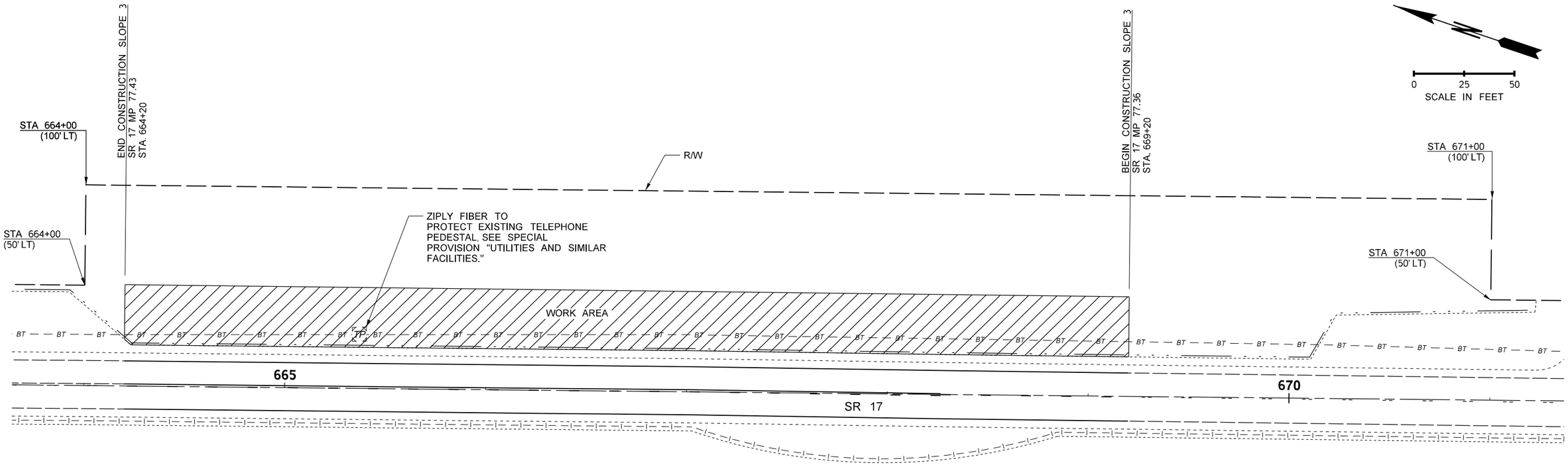
Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 2 STABILIZATION PLAN

Plot 3
PLAN REF NO 2ST2
SHEET 14 OF 65 SHEETS

# T. 22N. R. 26E. W.M.
# SECTION 13
# SLOPE 3




LEGEND:

- EXISTING RIGHT OF WAY
- EXISTING DITCH
- EXISTING BURIED TELEPHONE
- EXISTING EDGE OF ROADWAY
- EXISTING GUARDRAIL
- EXISTING LANE LINE
- EXISTING NO PASS LINE
- EXISTING DOUBLE YELLOW CENTERLINE
- EXISTING EDGE OF DRIVING LANE
- EXISTING EDGE OF PAVED SHOULDER
- EXISTING EDGE OF GRAVEL SHOULDER
- PAINT LINE (YELLOW CENTERLINE)
- PAINT LINE (YELLOW NO PASS)
- PAINT LINE (YELLOW DOUBLE CENTERLINE)
- PAINT LINE (WHITE EDGE)

GENERAL NOTES:

1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
4. ALL STATIONS ARE APPROXIMATE.
5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

| | |
|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 3.dgn |
| TIME | 4:03:14 PM |
| DATE | 6/26/2023 |
| PLOTTED BY | Kevin.Cronenwett |
| DESIGNED BY | A. SCHULTZ |
| ENTERED BY | K. CRONENWETT |
| CHECKED BY | K. WISEMAN |
| PROJ. ENGR. | M. CASTILLO |
| REGIONAL ADM. | D. BIERSCHBACH |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 24B001

CONTRACT NO.

LOCATION NO. XL-6412

KARL WILLIAM WISEMAN, STATE OF WASHINGTON, 56344, REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State
Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

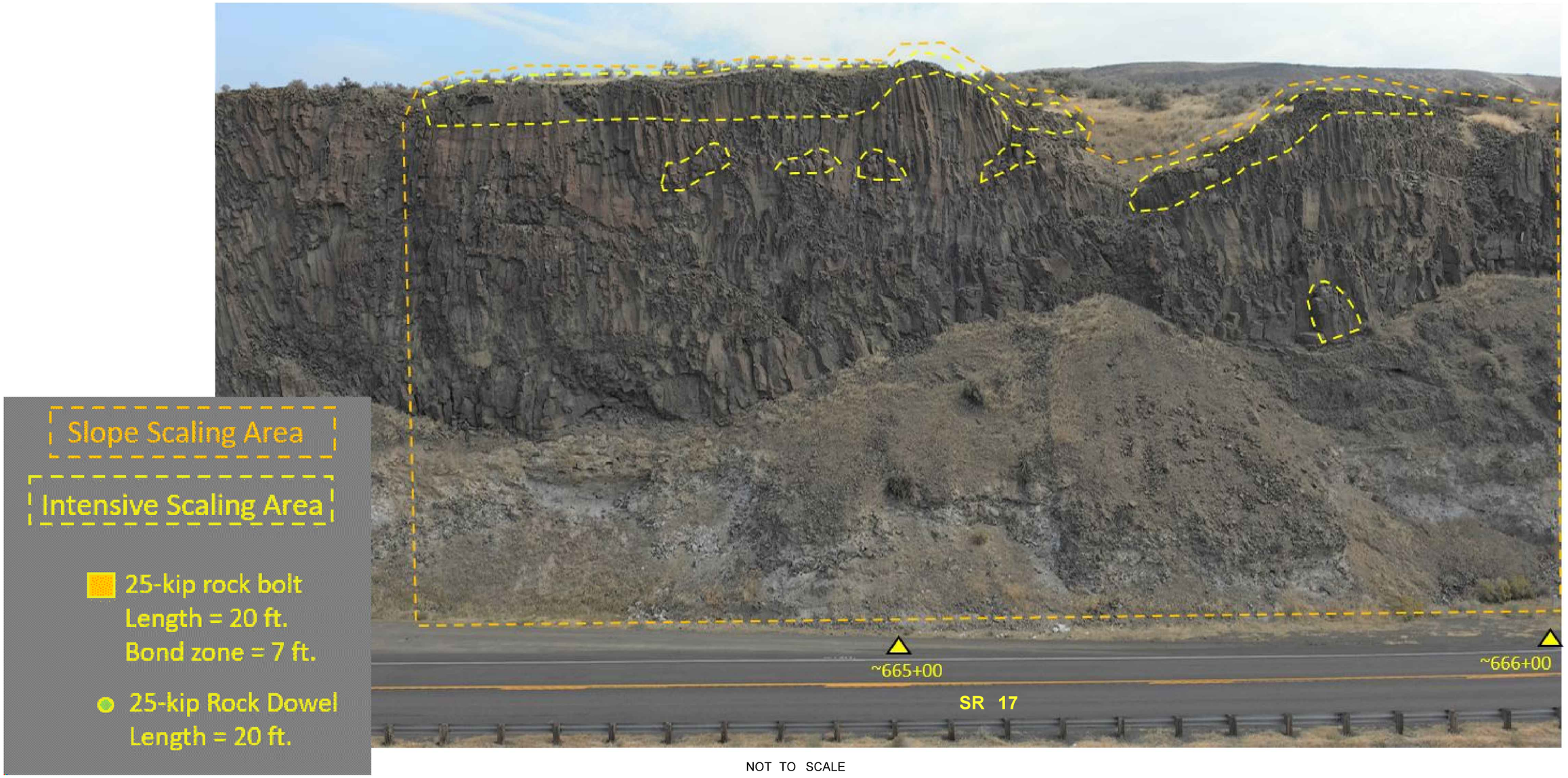
SLOPE 3 SITE PLAN

Plot 1
PLAN REF NO 3SP1
SHEET 15 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.
3. ALL ROCK DOWEL LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD LOCATED BY THE ENGINEER PRIOR TO DRILLING.
4. SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS."

# T. 22N. R. 26E. W.M.
# SECTION 13
# SLOPE 3




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 3.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:52:59 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

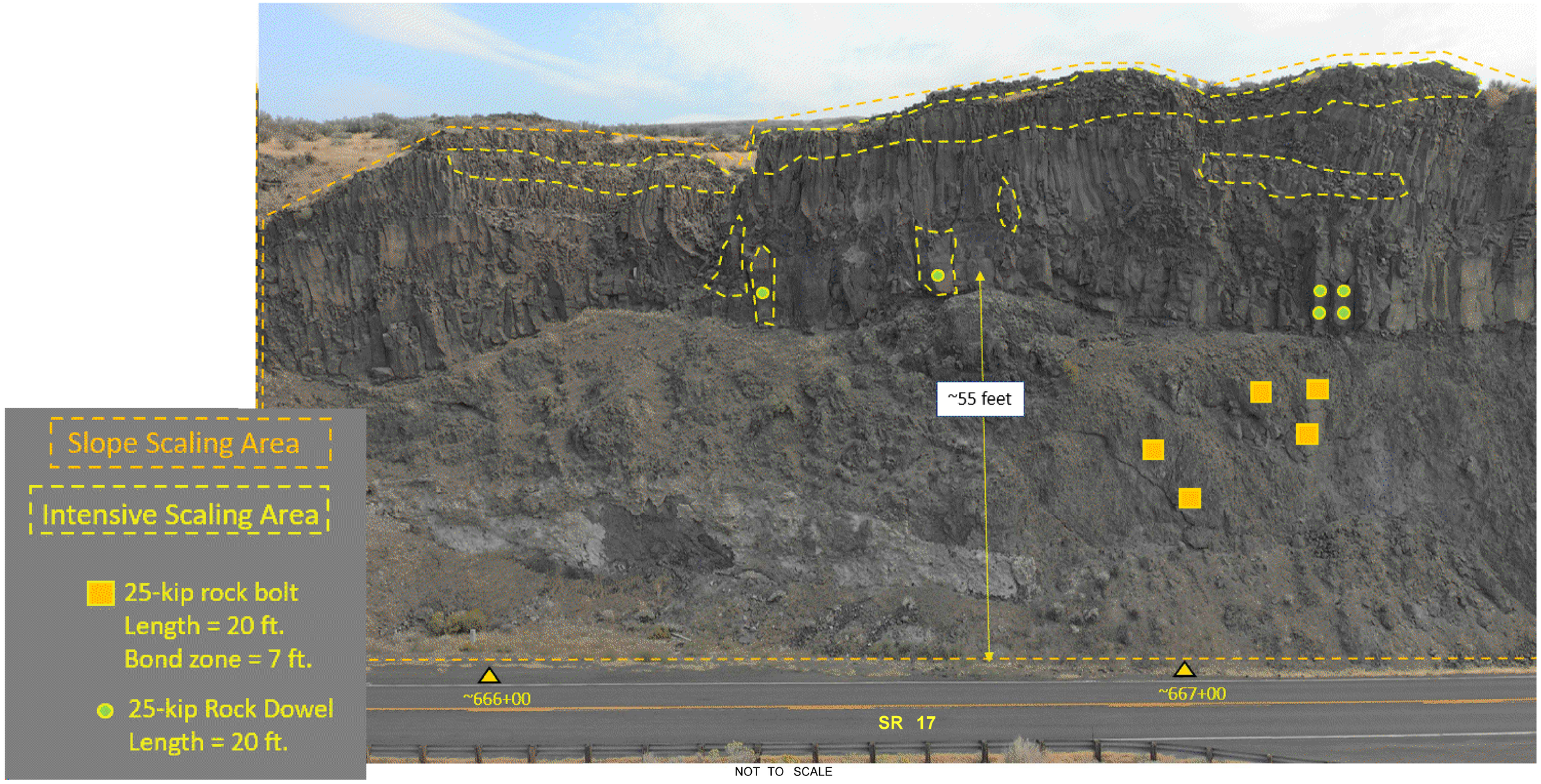
SLOPE 3 STABILIZATION PLAN

Plot 2
PLAN REF NO 3ST1
SHEET 16 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.
3. ALL ROCK DOWEL LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD LOCATED BY THE ENGINEER PRIOR TO DRILLING.
4. SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS."

# T. 22N. R. 26E. W.M.
# SECTION 13
# SLOPE 3




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 3.dgn | | | | | | |
| TIME | 8:53:00 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

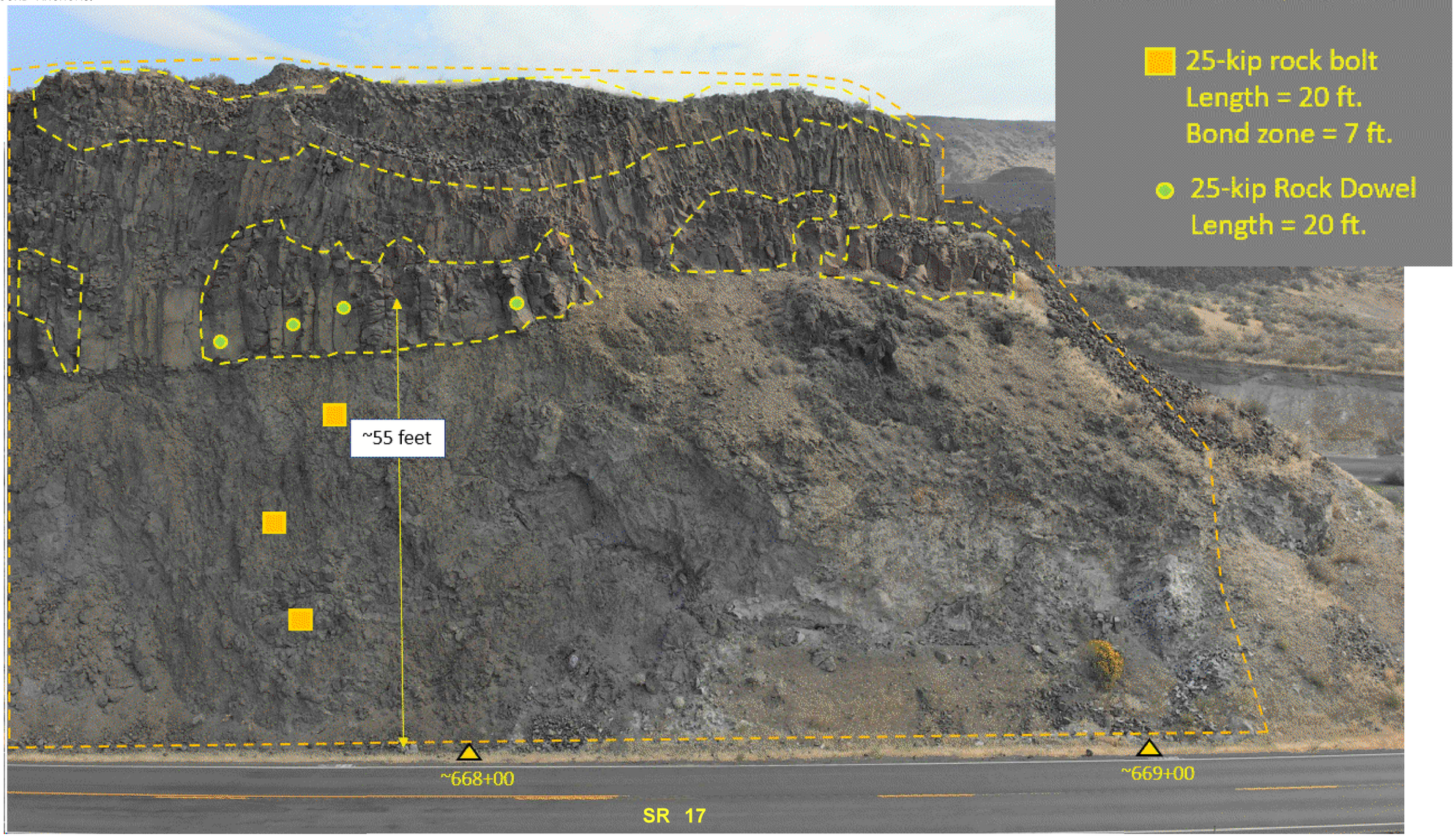
SLOPE 3 STABILIZATION PLAN

Plot 3
PLAN REF NO 3ST2
SHEET 17 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.
3. ALL ROCK DOWEL LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD LOCATED BY THE ENGINEER PRIOR TO DRILLING.
4. SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS."

# T. 22N. R. 26E. W.M.
# SECTION 13
# SLOPE 3




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 3.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 8:53:01 AM | | | | 10 | WASH | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER | | |
| DESIGNED BY | A. SCHULTZ | | | | 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist (Engineering Geologist) 2869

Gabriel L. Taylor — SEE CT1 DATE

P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 3 STABILIZATION PLAN

Plot 4

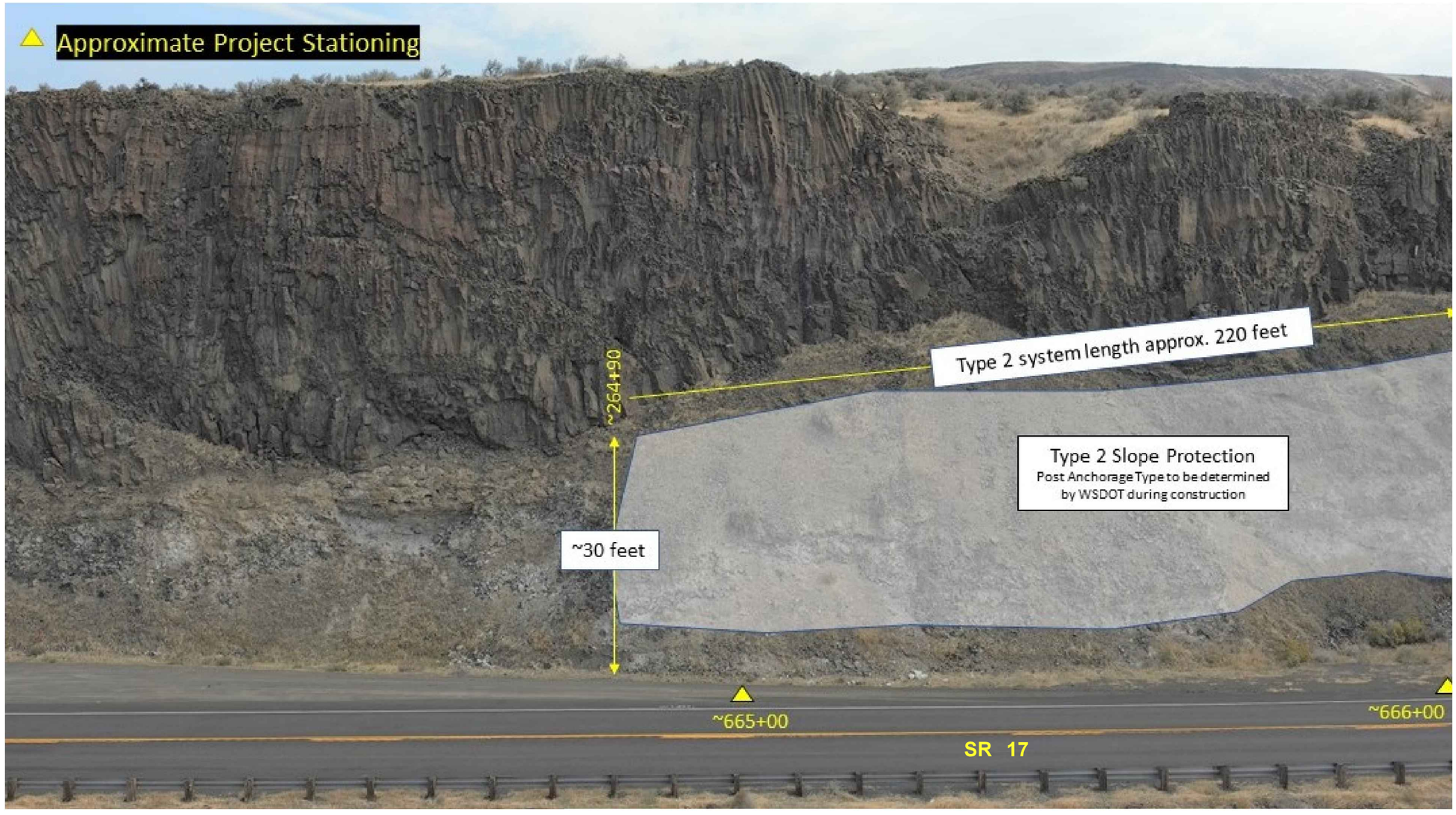
PLAN REF NO 3ST3

SHEET 18 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 22N. R. 26E. W.M.
# SECTION 13
# SLOPE 3




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 3.dgn | | | | | | |
| TIME | 8:53:02 AM | | | | REGION NO. / STATE | FED.AID PROJ.NO. | |
| DATE | 6/15/2023 | | | | 10 / WASH | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | LOCATION NO. XL-6412 | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

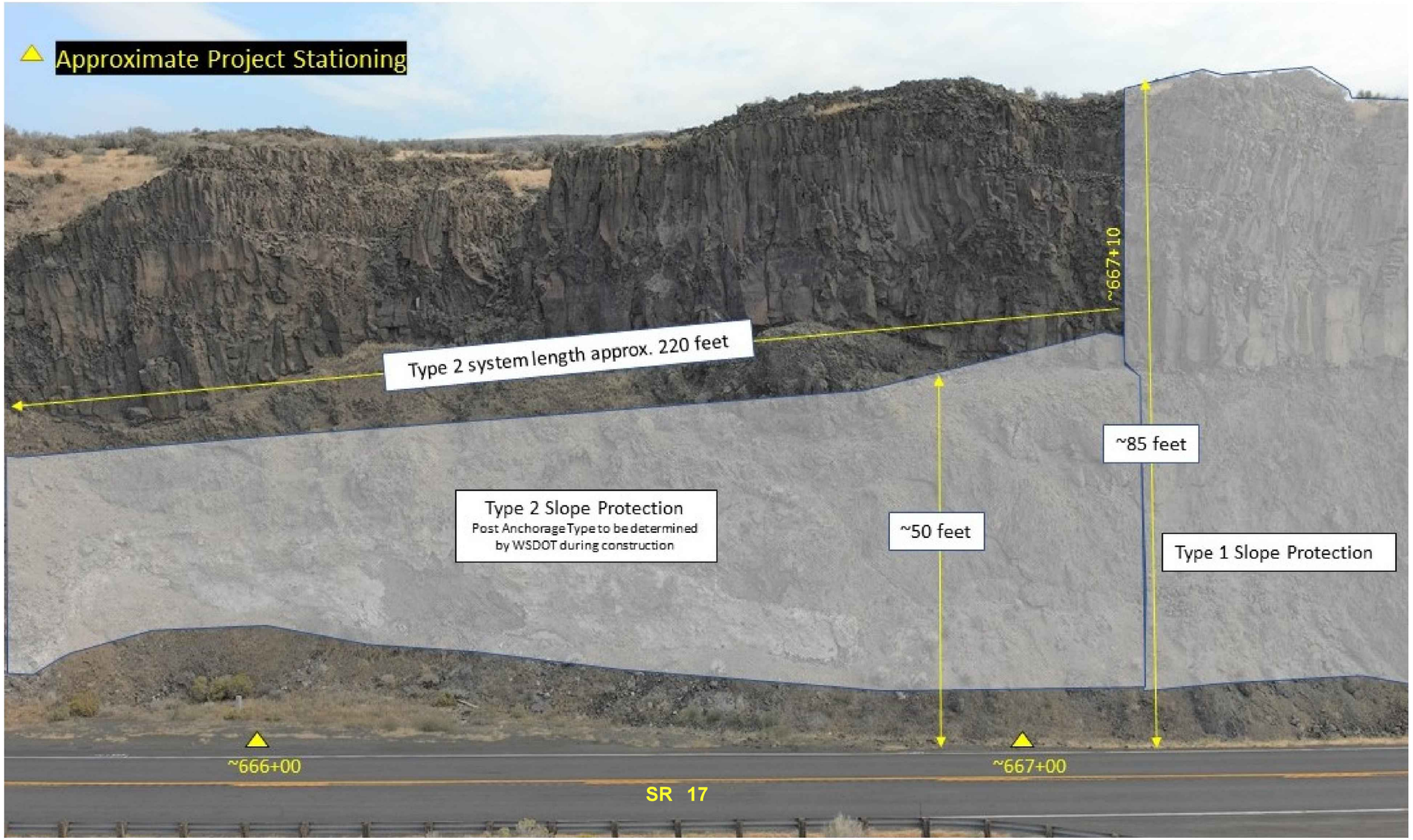
SLOPE 3 STABILIZATION PLAN

Plot 5
PLAN REF NO 3ST4
SHEET 19 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 22N. R. 26E. W.M.
# SECTION 13
# SLOPE 3




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 3.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 8:53:02 AM | | | | 10 | WASH | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER | | |
| DESIGNED BY | A. SCHULTZ | | | | 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

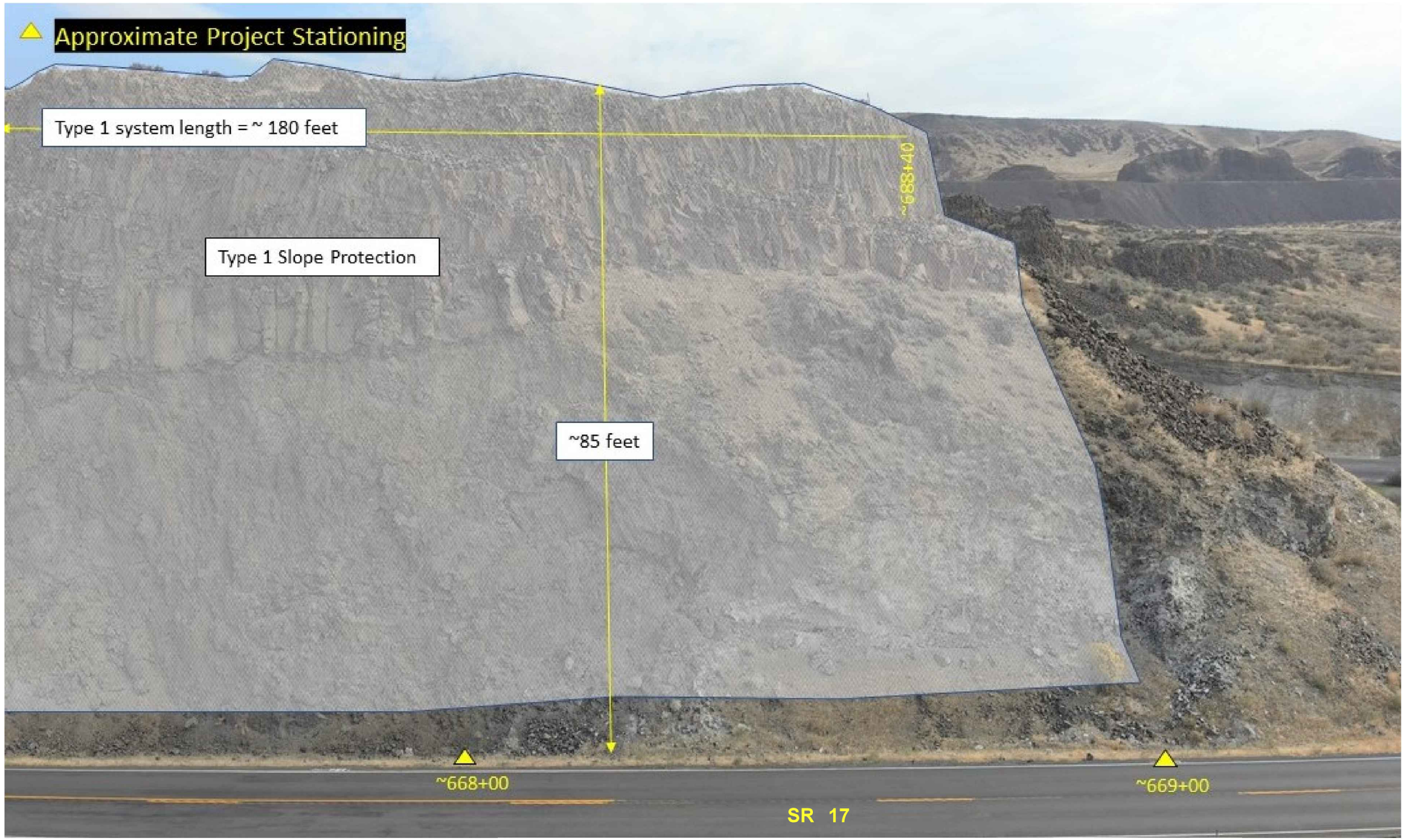
SLOPE 3 STABILIZATION PLAN

Plot 6
PLAN REF NO 3ST5
SHEET 20 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 22N. R. 26E. W.M.
# SECTION 13
# SLOPE 3




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 3.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:03 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869 Gabriel L. Taylor SEE CT1 DATE P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

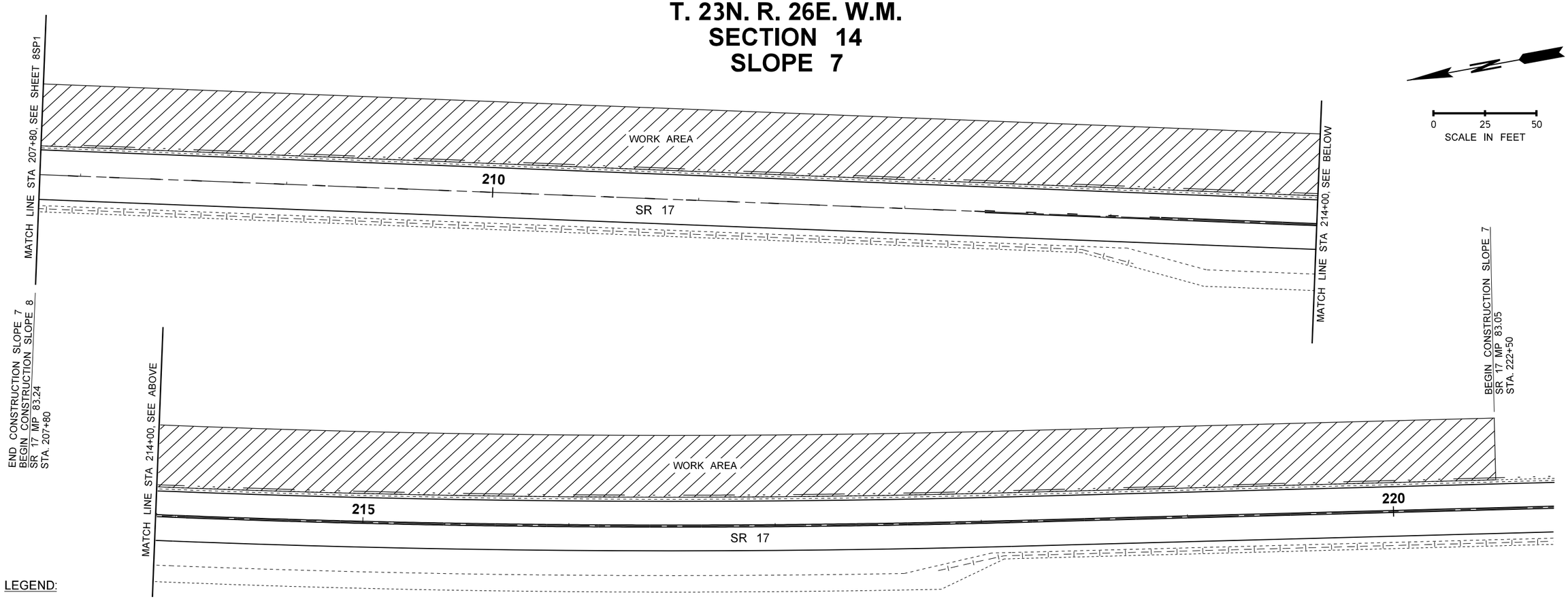
Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 3 STABILIZATION PLAN

Plot 7
PLAN REF NO 3ST6
SHEET 21 OF 65 SHEETS

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7




LEGEND:

- EXISTING RIGHT OF WAY
- EXISTING DITCH
- EXISTING BURIED TELEPHONE
- EXISTING EDGE OF ROADWAY
- EXISTING GUARDRAIL
- EXISTING LANE LINE
- EXISTING NO PASS LINE
- EXISTING DOUBLE YELLOW CENTERLINE
- EXISTING EDGE OF DRIVING LANE
- EXISTING EDGE OF PAVED SHOULDER
- EXISTING EDGE OF GRAVEL SHOULDER
- PAINT LINE (YELLOW CENTERLINE)
- PAINT LINE (YELLOW NO PASS)
- PAINT LINE (YELLOW DOUBLE CENTERLINE)
- PAINT LINE (WHITE EDGE)

GENERAL NOTES:

1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
4. ALL STATIONS ARE APPROXIMATE.
5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | | | |
| TIME | 4:03:35 PM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/26/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | LOCATION NO. XL-6412 | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

P.E. STAMP BOX

SEE CT1
DATE

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 7 SITE PLAN

Plot 1
PLAN REF NO 7SP1
SHEET 22 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 8:53:08 AM | | | | 10 | WASH | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER | | |
| DESIGNED BY | A. SCHULTZ | | | | 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington, Gabriel L. Taylor, Engineering Geologist, 2869, Licensed Geologist

Gabriel L. Taylor — SEE CT1 — DATE — P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 7 STABILIZATION PLAN

Plot 2

PLAN REF NO 7ST1

SHEET 23 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 8:53:08 AM | | | | 10 | WASH | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER | | |
| ENTERED BY | K. CRONENWETT | | | | 24B001 | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

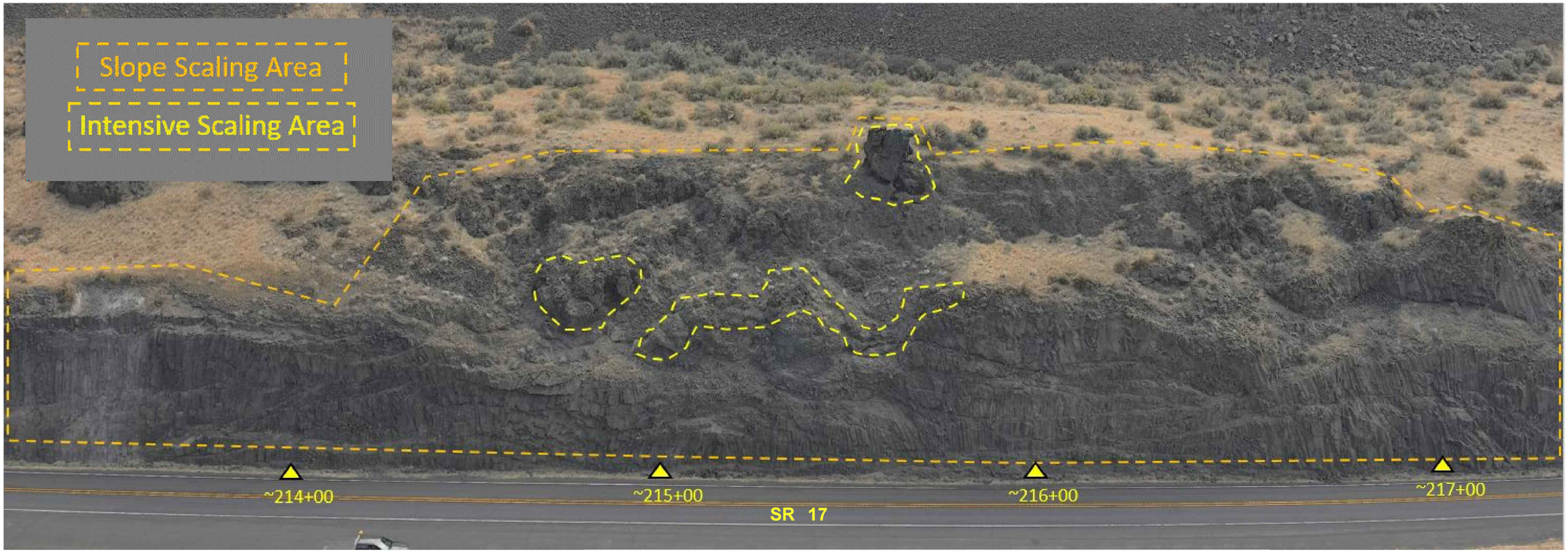
SLOPE 7 STABILIZATION PLAN

Plot 3
PLAN REF NO 7ST2
SHEET 24 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:09 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869 Gabriel L. Taylor SEE CT1 DATE P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

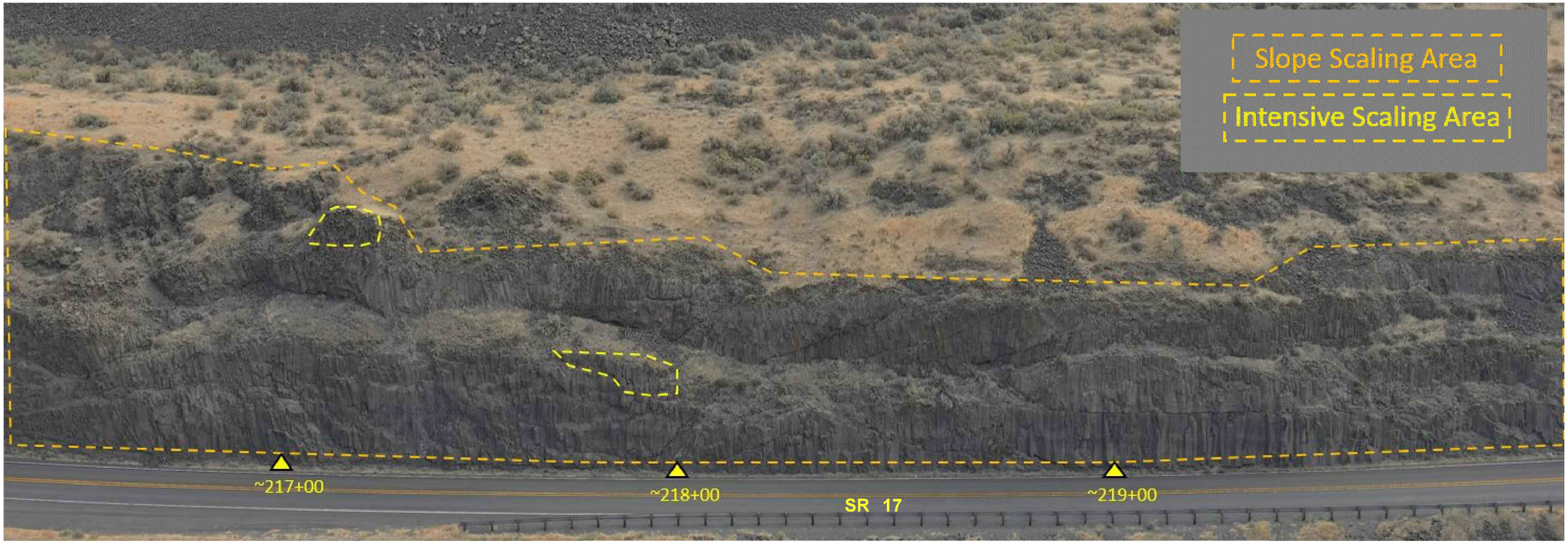
SLOPE 7 STABILIZATION PLAN

Plot 4
PLAN REF NO 7ST3
SHEET 25 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | | | |
| TIME | 8:53:10 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869 Gabriel L. Taylor SEE CT1 DATE P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

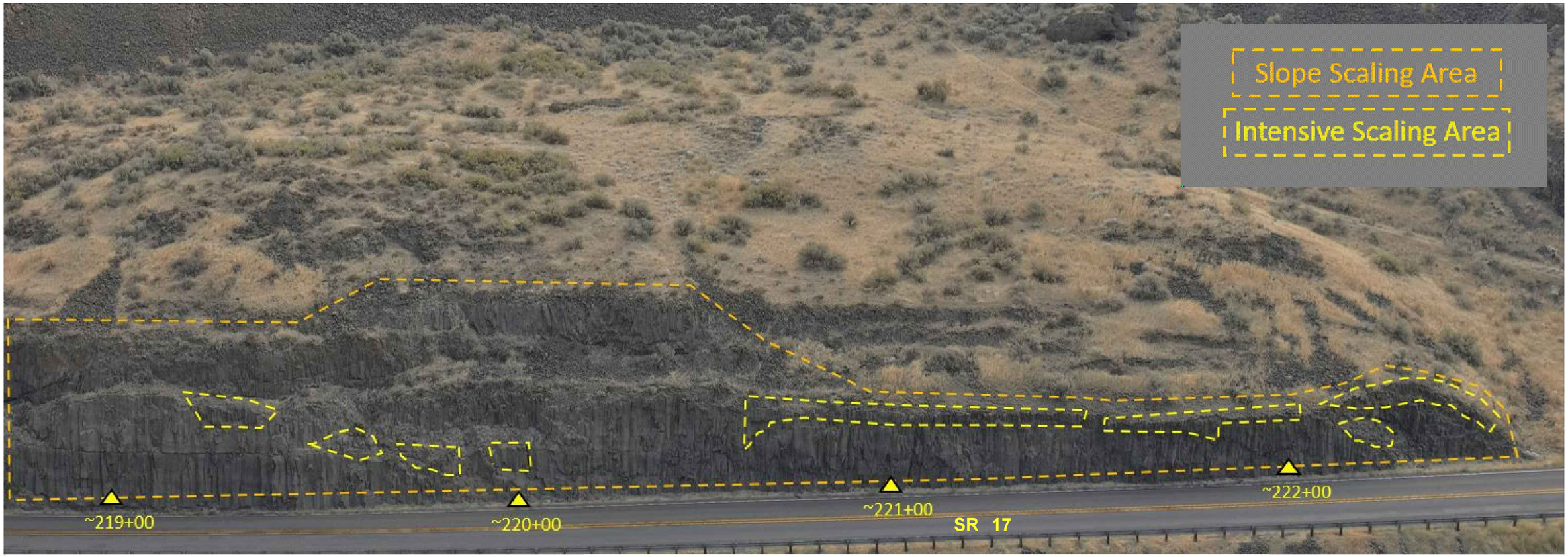
SLOPE 7 STABILIZATION PLAN

Plot 5
PLAN REF NO 7ST4
SHEET 26 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | | | |
| TIME | 8:53:10 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | LOCATION NO. XL-6412 | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE B
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

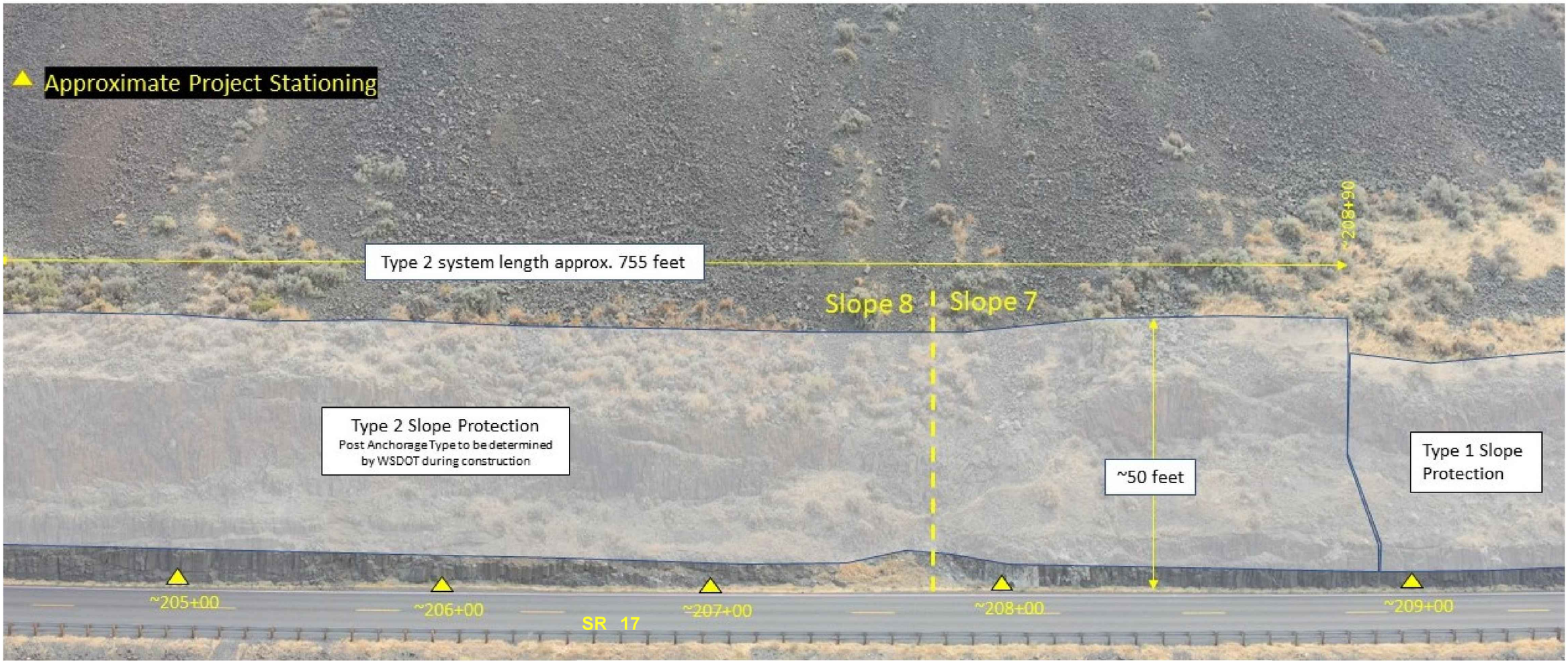
SLOPE 7 STABILIZATION PLAN

Plot 6
PLAN REF NO 7ST5
SHEET 27 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:11 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

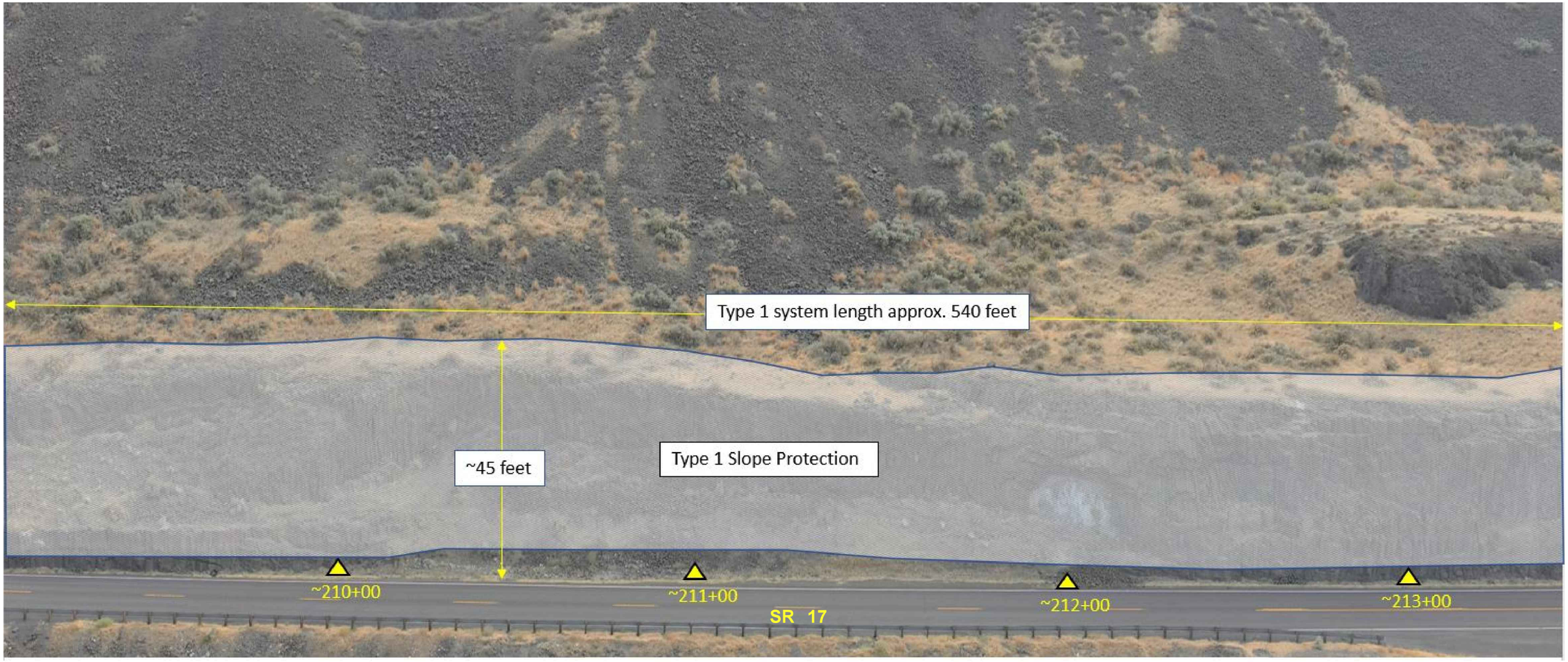
SLOPE 7 STABILIZATION PLAN

Plot 7
PLAN REF NO 7ST6
SHEET 28 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:11 AM | | | | JOB NUMBER 24B001 | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869 Gabriel L. Taylor

SEE CT1 DATE

P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 7 STABILIZATION PLAN

Plot 8

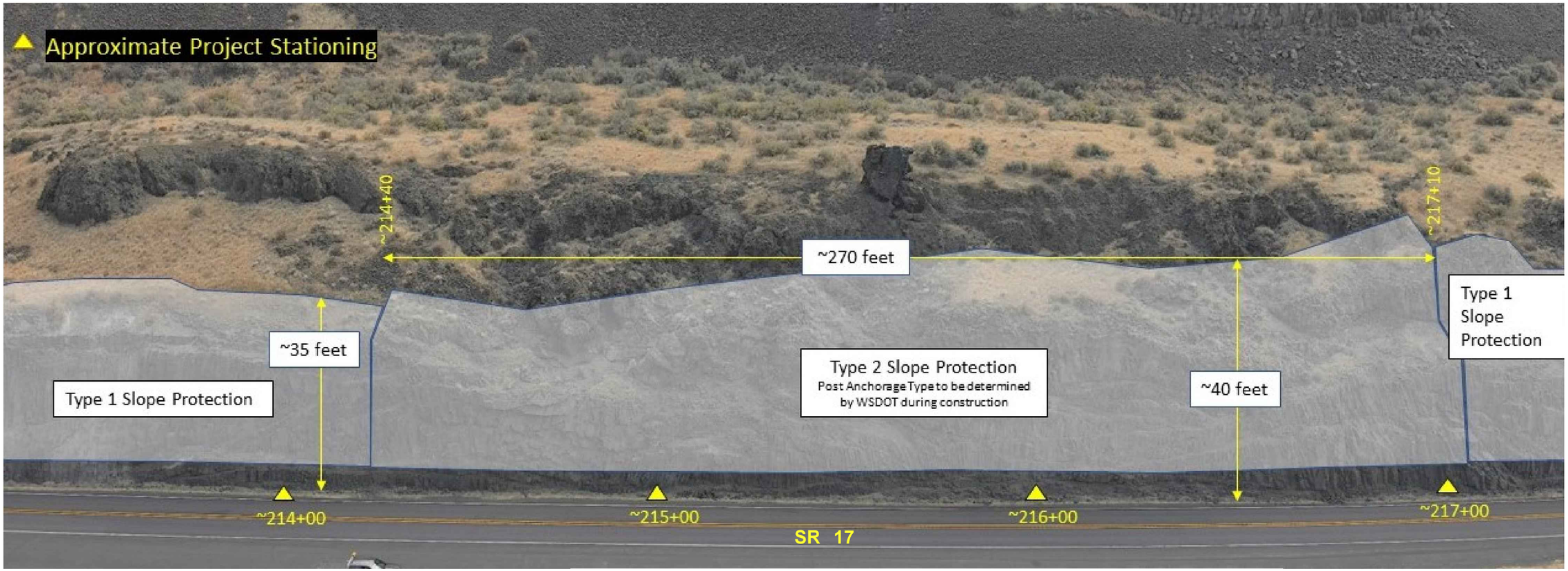
PLAN REF NO 7ST7

SHEET 29 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:12 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869 Gabriel L. Taylor SEE CT1 DATE P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

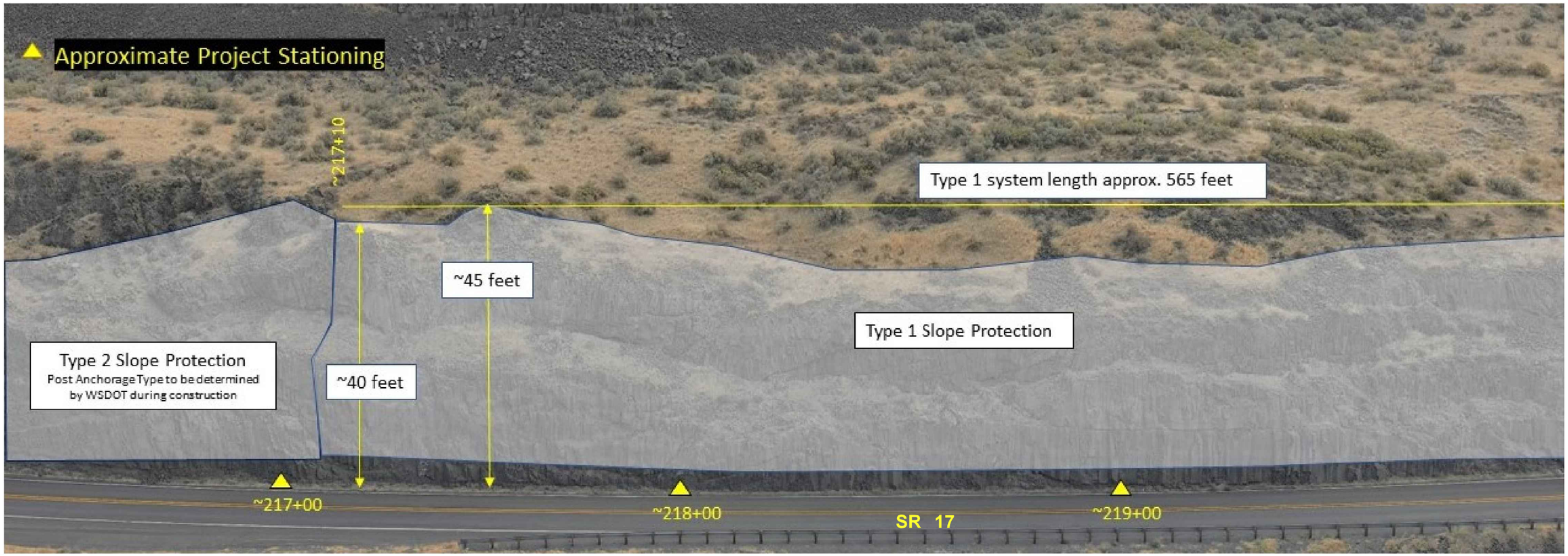
SLOPE 7 STABILIZATION PLAN

Plot 9
PLAN REF NO 7ST8
SHEET 30 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | | | |
| TIME | 8:53:12 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | LOCATION NO. XL-6412 | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE B
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

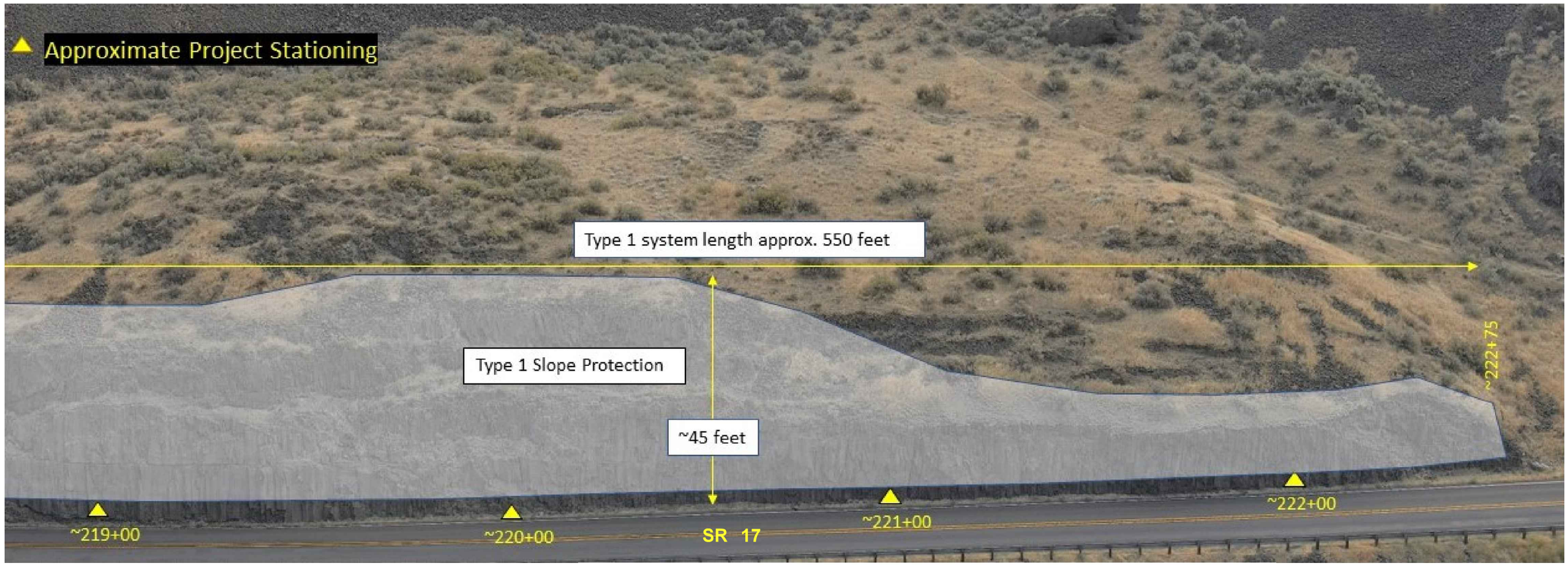
SLOPE 7 STABILIZATION PLAN

Plot 10
PLAN REF NO 7ST9
SHEET 31 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTION 14
# SLOPE 7




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 7.dgn | | | | | | |
| TIME | 8:53:13 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

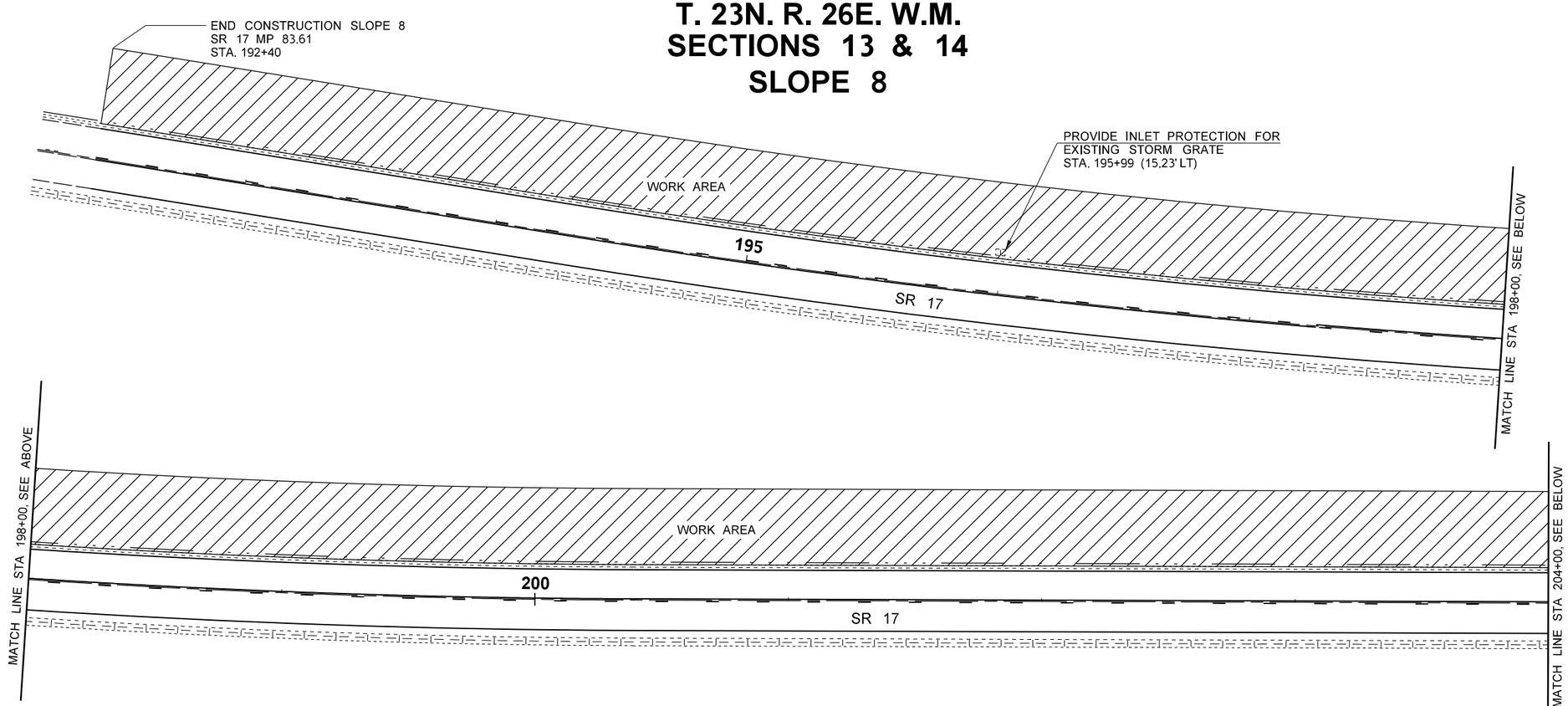
Washington State Department of Transportation

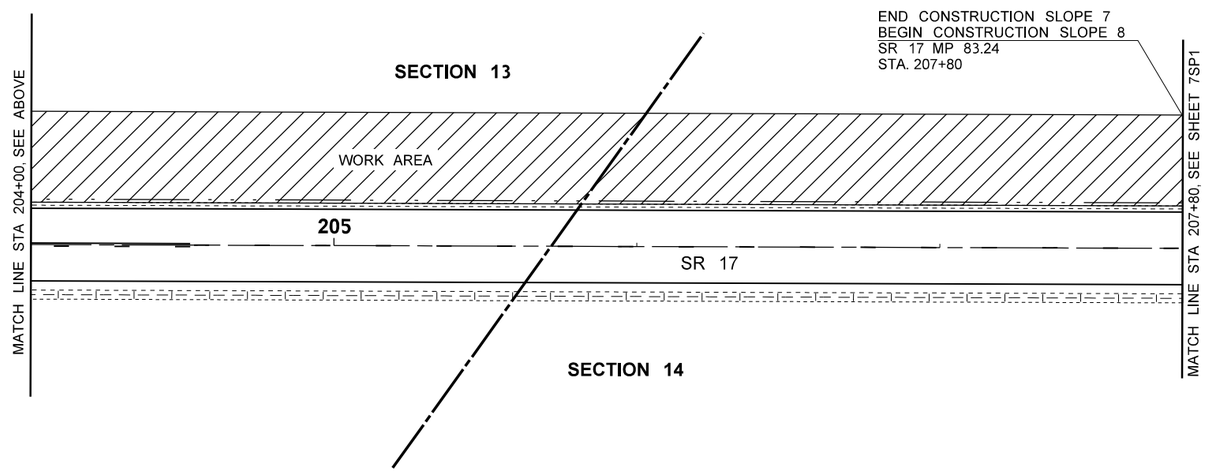
SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 7 STABILIZATION PLAN

Plot 11
PLAN REF NO 7ST10
SHEET 32 OF 65 SHEETS

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8




LEGEND:

- EXISTING RIGHT OF WAY
- EXISTING DITCH
- EXISTING BURIED TELEPHONE
- EXISTING EDGE OF ROADWAY
- EXISTING GUARDRAIL
- EXISTING LANE LINE
- EXISTING NO PASS LINE
- EXISTING DOUBLE YELLOW CENTERLINE
- EXISTING EDGE OF DRIVING LANE
- EXISTING EDGE OF PAVED SHOULDER
- EXISTING EDGE OF GRAVEL SHOULDER
- PAINT LINE (YELLOW CENTERLINE)
- PAINT LINE (YELLOW NO PASS)
- PAINT LINE (YELLOW DOUBLE CENTERLINE)
- PAINT LINE (WHITE EDGE)

GENERAL NOTES:

1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
4. ALL STATIONS ARE APPROXIMATE.
5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 4:04:07 PM | | | | 10 | WASH | |
| DATE | 6/26/2023 | | | | JOB NUMBER | | |
| PLOTTED BY | Kevin.Cronenwett | | | | 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | K. CRONENWETT | | | | | | XL-6412 |
| CHECKED BY | K. WISEMAN | | | | | | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

MICHAEL WISEMAN, STATE OF WASHINGTON, 56344, REGISTERED PROFESSIONAL ENGINEER
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

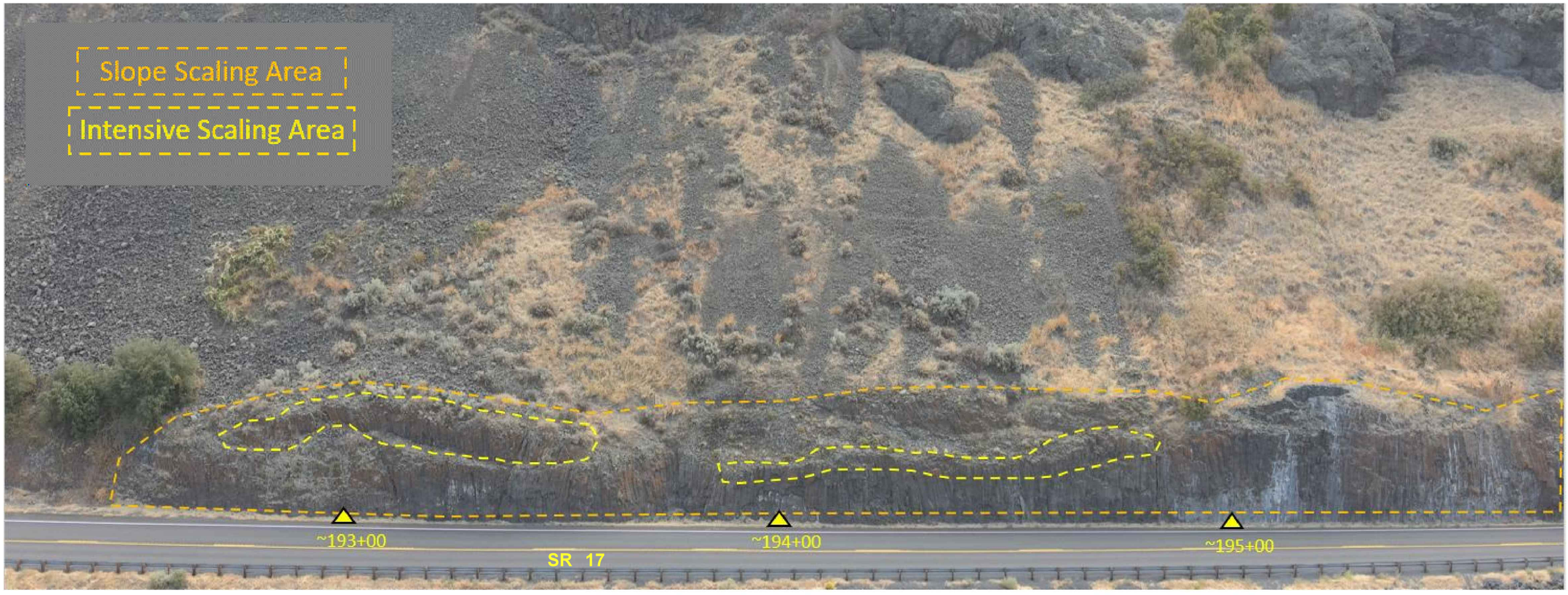
SLOPE 8 SITE PLAN

Plot 1
PLAN REF NO
8SP1
SHEET 33 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | | | |
| TIME | 8:53:18 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 8 STABILIZATION PLAN

Plot 2
PLAN REF NO 8ST1
SHEET 34 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:19 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 8 STABILIZATION PLAN

Plot 3
PLAN REF NO 8ST2
SHEET 35 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 8:53:19 AM | | | | 10 | WASH | |
| DATE | 6/15/2023 | | | | JOB NUMBER | | |
| PLOTTED BY | Kevin.Cronenwett | | | | 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | K. CRONENWETT | | | | | | XL-6412 |
| CHECKED BY | K. WISEMAN | | | | | | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

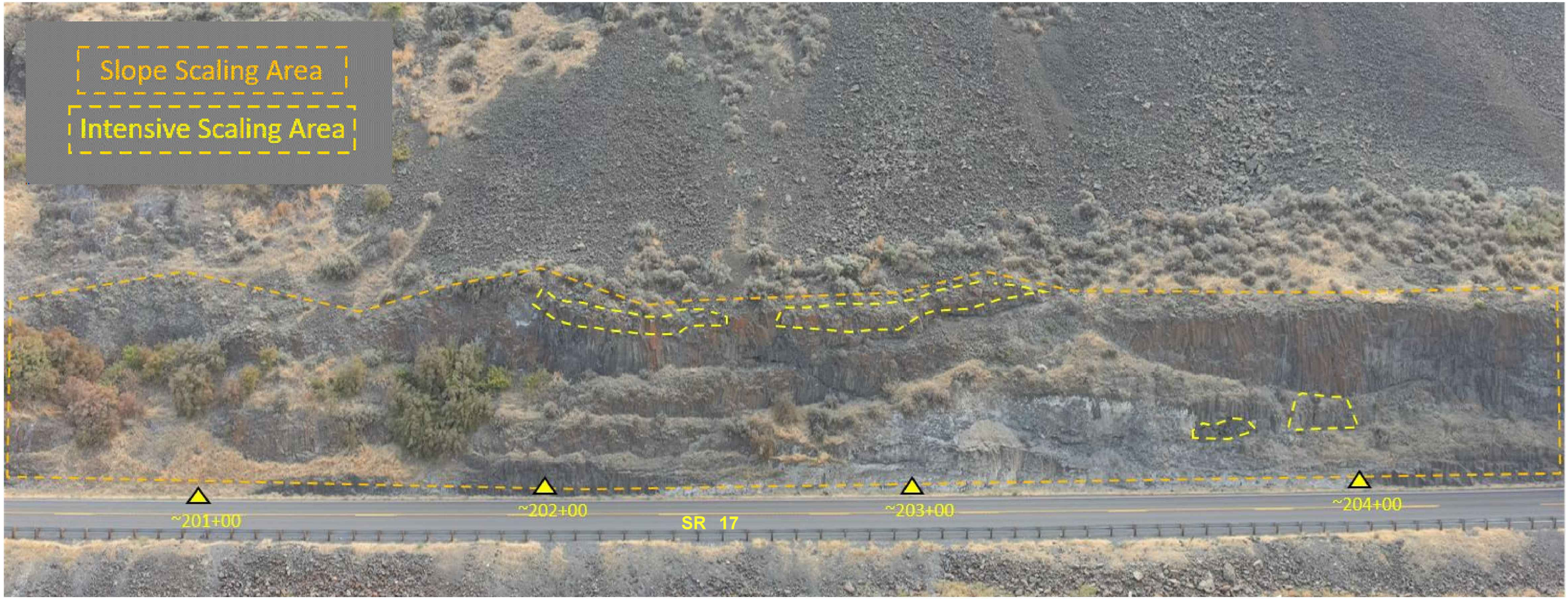
SLOPE 8 STABILIZATION PLAN

Plot 4
PLAN REF NO
8ST3
SHEET 36 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | | | |
| TIME | 8:53:20 AM | | | | REGION NO. / STATE | FED.AID PROJ.NO. | |
| DATE | 6/15/2023 | | | | 10 / WASH | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER | | |
| ENTERED BY | K. CRONENWETT | | | | 24B001 | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | LOCATION NO. | |
| PROJ. ENGR. | M. CASTILLO | | | | | XL-6412 | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 8 STABILIZATION PLAN

Plot 5
PLAN REF NO 8ST4
SHEET 37 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | | | |
| TIME | 8:53:21 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist — Engineering Geologist 2869 — Gabriel L. Taylor — SEE CT1 DATE — P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE B
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

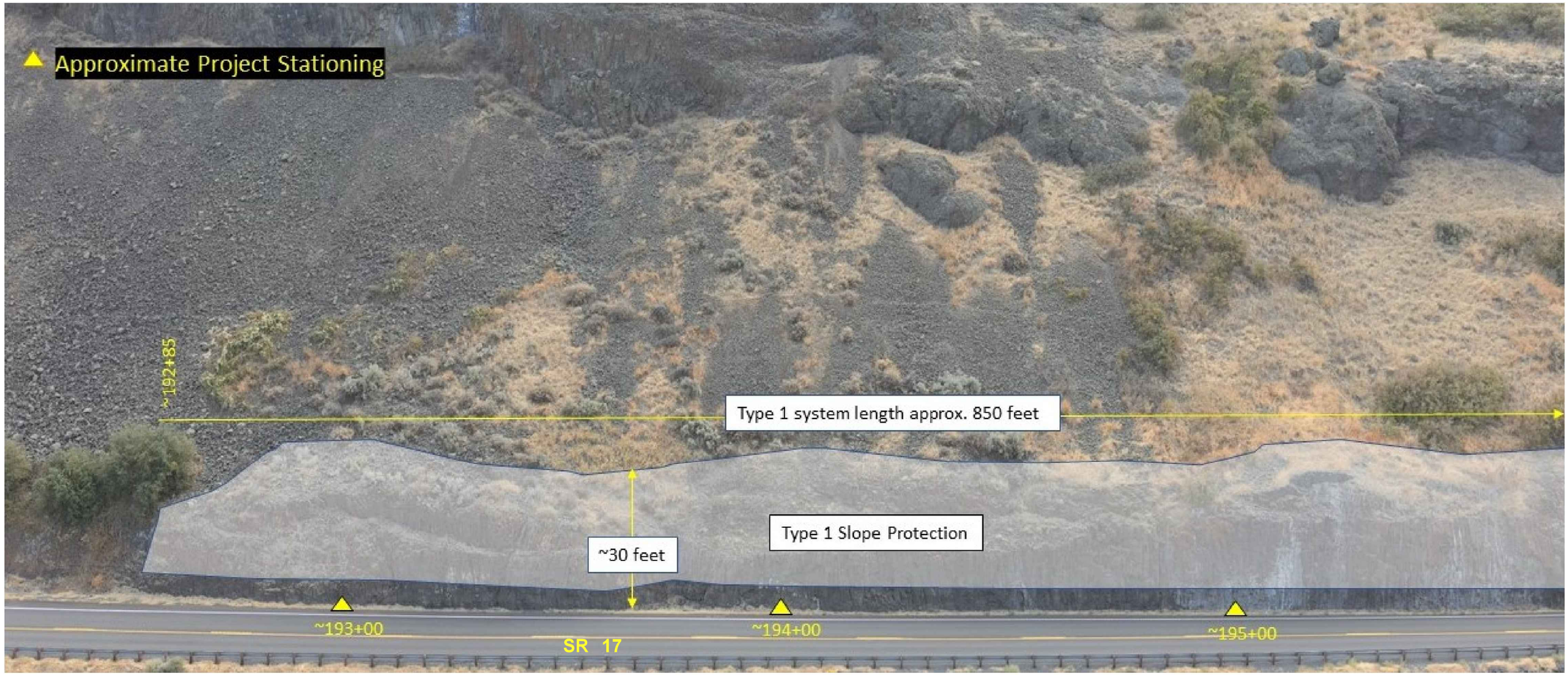
SLOPE 8 STABILIZATION PLAN

Plot 6
PLAN REF NO 8ST5
SHEET 38 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | | | |
| TIME | 8:53:21 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 8 STABILIZATION PLAN

Plot 7
PLAN REF NO 8ST6
SHEET 39 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:22 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869 Gabriel L. Taylor SEE CT1 DATE P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 8 STABILIZATION PLAN

Plot 8
PLAN REF NO 8ST7
SHEET 40 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 8:53:22 AM | | | | 10 | WASH | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER | | |
| DESIGNED BY | A. SCHULTZ | | | | 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869 Gabriel L. Taylor SEE CT1 DATE P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 8 STABILIZATION PLAN

Plot 9
PLAN REF NO 8ST8
SHEET 41 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | | | |
| TIME | 8:53:23 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist 2869 Engineering Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

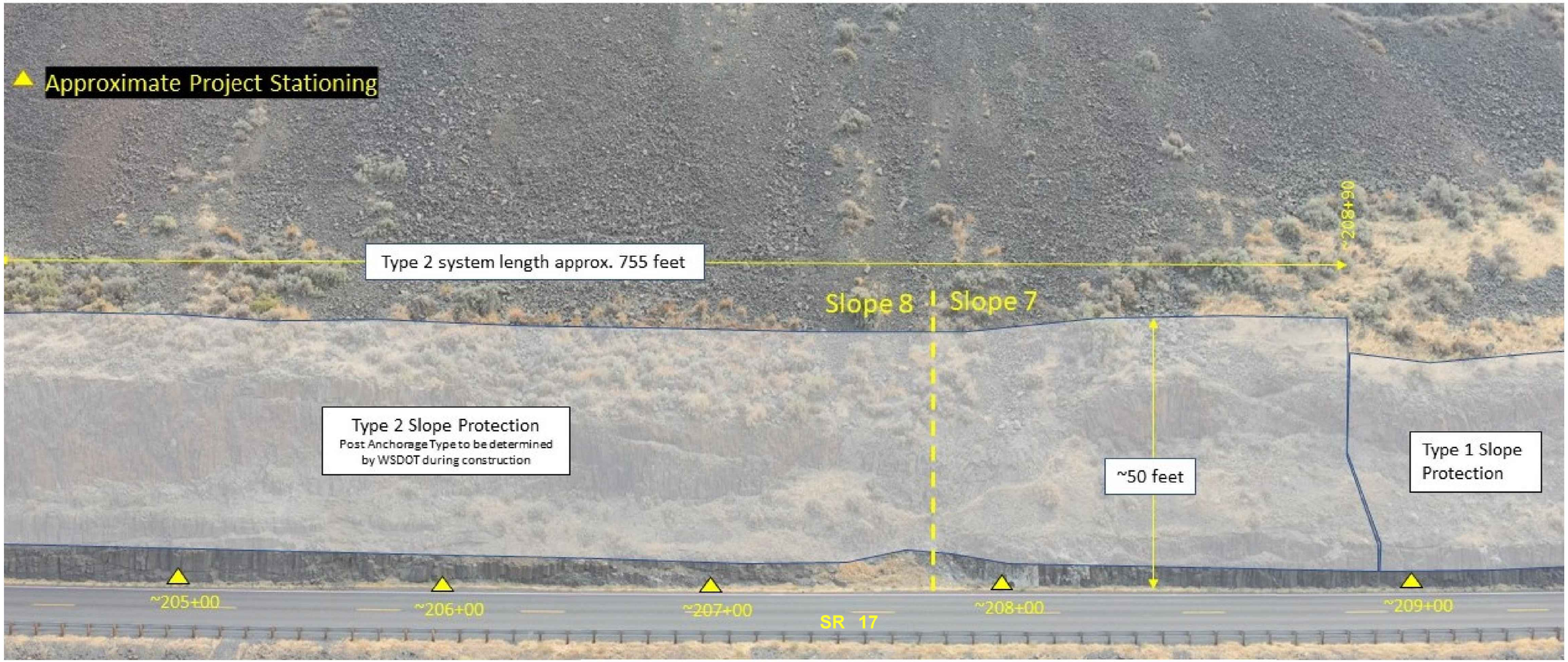
SLOPE 8 STABILIZATION PLAN

Plot 10
PLAN REF NO 8ST9
SHEET 42 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SPECIAL PROVISION "TYPE 1 SLOPE PROTECTION," "TYPE 2 SLOPE PROTECTION," "POST ANCHORAGE TYPE A," AND "POST ANCHORAGE TYPE B" FOR NETTING AND ANCHORING INFORMATION AND REQUIREMENTS.

# T. 23N. R. 26E. W.M.
# SECTIONS 13 & 14
# SLOPE 8




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 8.dgn | | | | | | |
| TIME | 8:53:23 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

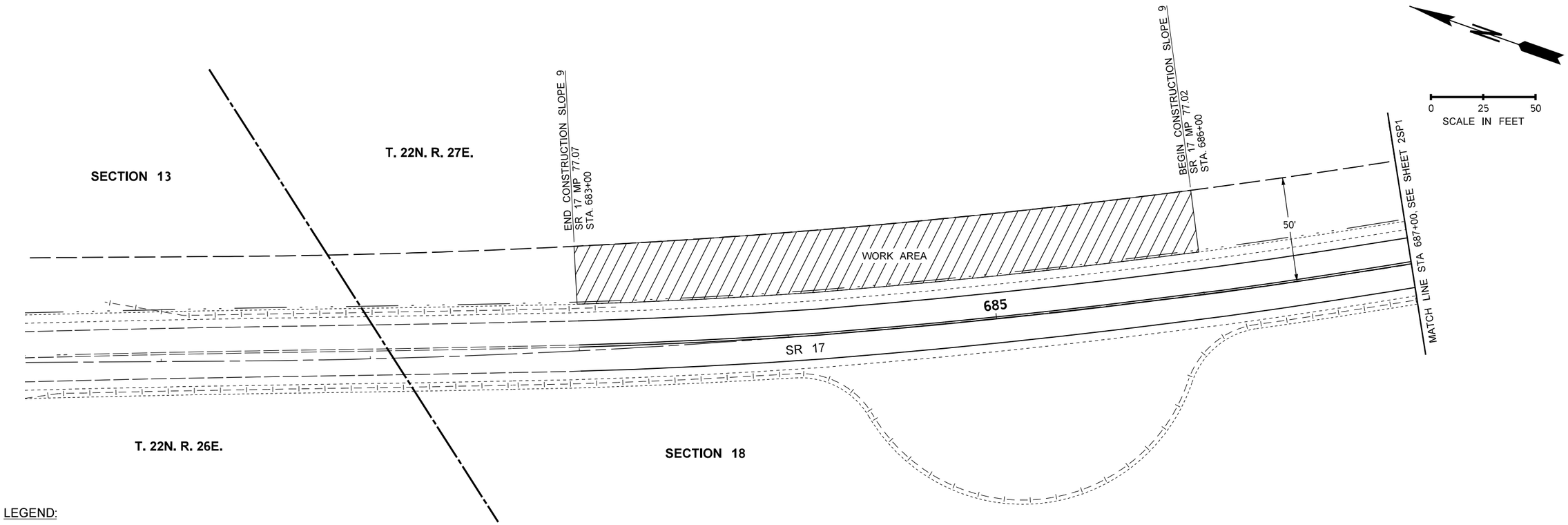
Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 8 STABILIZATION PLAN

Plot 11
PLAN REF NO 8ST10
SHEET 43 OF 65 SHEETS

# T. 22N. R. 27E. W.M. & T. 22N. R. 26E. W.M.
# SECTION 18
# SLOPE 9




LEGEND:

| | |
|---|---|
| — — — — — — — — | EXISTING RIGHT OF WAY |
| —— - - - —— | EXISTING DITCH |
| - BT — — BT — — BT - | EXISTING BURIED TELEPHONE |
| - - - - - - - - - - - - - - - - - | EXISTING EDGE OF ROADWAY |
| -I— —I— —I— —I— — | EXISTING GUARDRAIL |
| - - - - - - | EXISTING LANE LINE |
| - - — - - — - - — | EXISTING NO PASS LINE |
| ═ ═ ═ ═ ═ ═ | EXISTING DOUBLE YELLOW CENTERLINE |
| — — — — — — | EXISTING EDGE OF DRIVING LANE |
| - - - - - - - - - - - - - - - - - | EXISTING EDGE OF PAVED SHOULDER |
| - - - - - - - - - - - - - - - - - - - - - | EXISTING EDGE OF GRAVEL SHOULDER |
| — — — | PAINT LINE (YELLOW CENTERLINE) |
| — — — | PAINT LINE (YELLOW NO PASS) |
| ═══ | PAINT LINE (YELLOW DOUBLE CENTERLINE) |
| ——— | PAINT LINE (WHITE EDGE) |

GENERAL NOTES:

1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
4. ALL STATIONS ARE APPROXIMATE.
5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 9.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 4:04:39 PM | | | | | | |
| DATE | 6/26/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

KYLE WILLIAM WISEMAN, STATE OF WASHINGTON, 56344, REGISTERED PROFESSIONAL ENGINEER

SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

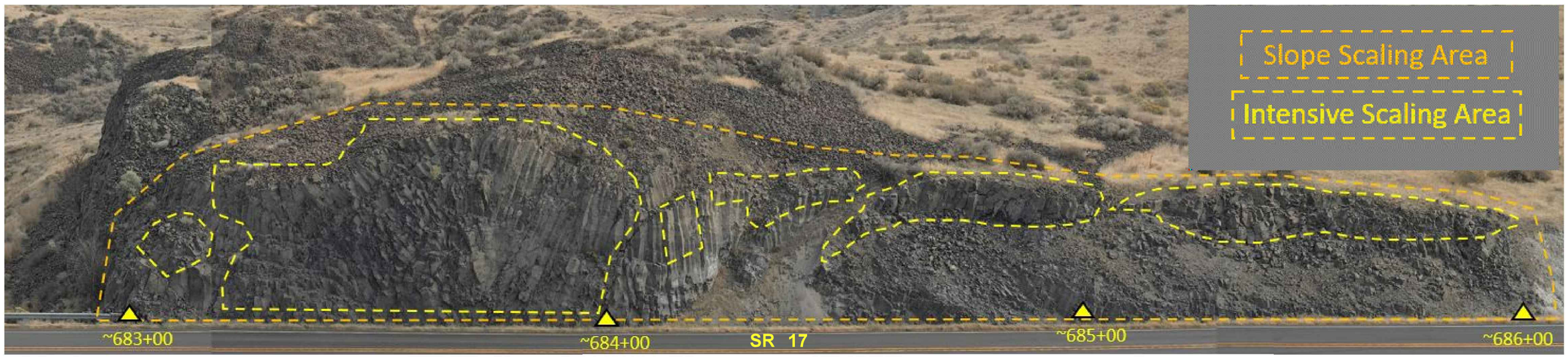
SLOPE 9 SITE PLAN

Plot 1
PLAN REF NO 9SP1
SHEET 44 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 22N. R. 27E. W.M. & T. 22N. R. 26E. W.M.
# SECTION 18
# SLOPE 9




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 9.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:26 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

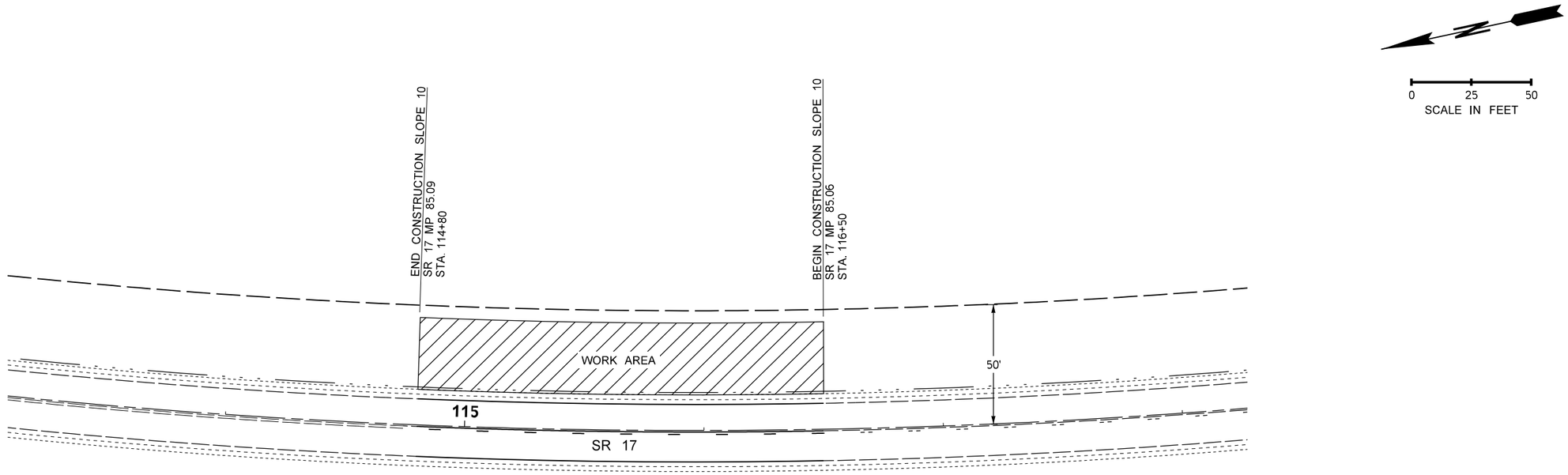
Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 9 STABILIZATION PLAN

Plot 2
PLAN REF NO 9ST1
SHEET 45 OF 65 SHEETS

# T. 23N. R. 26E. W.M.
# SECTION 1
# SLOPE 10




LEGEND:

| | |
|---|---|
| — — — — — — — · | EXISTING RIGHT OF WAY |
| —— - - - —— | EXISTING DITCH |
| - BT — — BT — — BT · | EXISTING BURIED TELEPHONE |
| - - - - - - - - - - - - - - - - - | EXISTING EDGE OF ROADWAY |
| -I— —I— —I— —I— — | EXISTING GUARDRAIL |
| - - - - - - | EXISTING LANE LINE |
| - - — — - - — — - - — | EXISTING NO PASS LINE |
| ═ ═ ═ ═ ═ ═ | EXISTING DOUBLE YELLOW CENTERLINE |
| — — — — — — | EXISTING EDGE OF DRIVING LANE |
| - - - - - - - - - - - - - - - - - | EXISTING EDGE OF PAVED SHOULDER |
| - - - - - - - - - - - - - - - - - - - - - - | EXISTING EDGE OF GRAVEL SHOULDER |
| — — — | PAINT LINE (YELLOW CENTERLINE) |
| — — — | PAINT LINE (YELLOW NO PASS) |
| ═══ | PAINT LINE (YELLOW DOUBLE CENTERLINE) |
| ——— | PAINT LINE (WHITE EDGE) |

GENERAL NOTES:

1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
4. ALL STATIONS ARE APPROXIMATE.
5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

| | | | | |
|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 10.dgn | | | |
| TIME | 4:04:42 PM | | | |
| DATE | 6/26/2023 | | | |
| PLOTTED BY | Kevin.Cronenwett | | | |
| DESIGNED BY | A. SCHULTZ | | | |
| ENTERED BY | K. CRONENWETT | | | |
| CHECKED BY | K. WISEMAN | | | |
| PROJ. ENGR. | M. CASTILLO | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY |

| REGION NO. | STATE | FED.AID PROJ.NO. |
|---|---|---|
| 10 | WASH | |
| JOB NUMBER 24B001 | | |
| CONTRACT NO. | | LOCATION NO. XL-6412 |

P.E. STAMP BOX — SEE CT1 — DATE

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

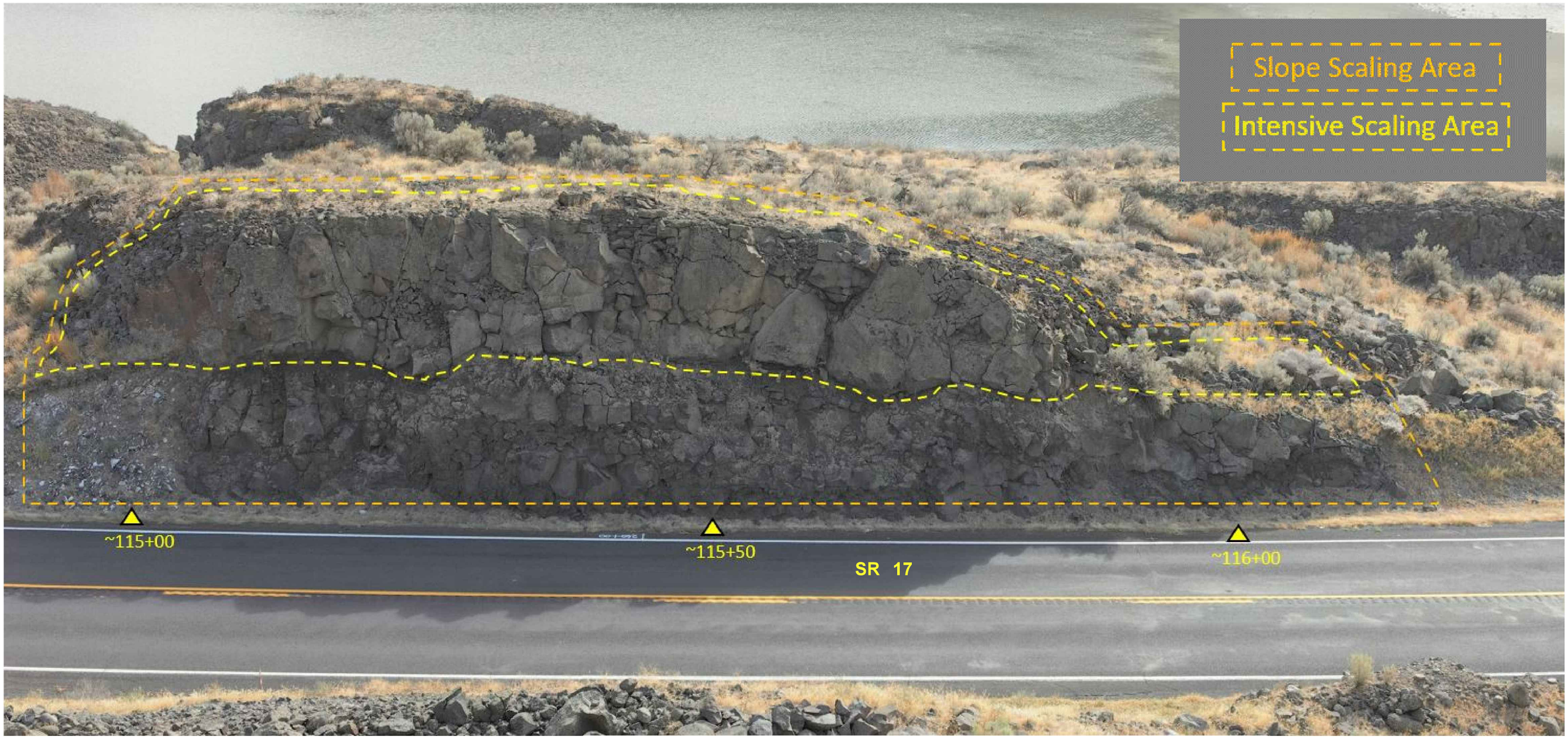
SLOPE 10 SITE PLAN

Plot 1
PLAN REF NO 10SP1
SHEET 46 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 23N. R. 26E. W.M.
# SECTION 1
# SLOPE 10




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 10.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:29 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist Engineering Geologist 2869 Gabriel L. Taylor SEE CT1 DATE P.E. STAMP BOX

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

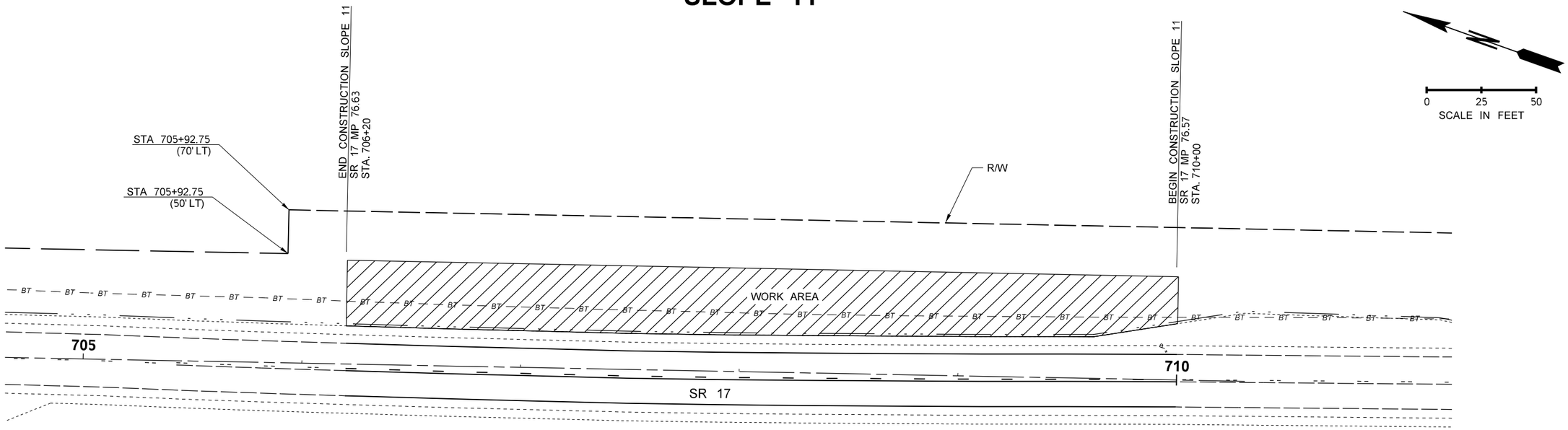
Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 10 STABILIZATION PLAN

Plot 2
PLAN REF NO 10ST1
SHEET 47 OF 65 SHEETS

# T. 22N. R. 27E. W.M.
# SECTION 18
# SLOPE 11




LEGEND:

- EXISTING RIGHT OF WAY
- EXISTING DITCH
- EXISTING BURIED TELEPHONE
- EXISTING EDGE OF ROADWAY
- EXISTING GUARDRAIL
- EXISTING LANE LINE
- EXISTING NO PASS LINE
- EXISTING DOUBLE YELLOW CENTERLINE
- EXISTING EDGE OF DRIVING LANE
- EXISTING EDGE OF PAVED SHOULDER
- EXISTING EDGE OF GRAVEL SHOULDER
- PAINT LINE (YELLOW CENTERLINE)
- PAINT LINE (YELLOW NO PASS)
- PAINT LINE (YELLOW DOUBLE CENTERLINE)
- PAINT LINE (WHITE EDGE)

GENERAL NOTES:

1. EXISTING FEATURES ARE APPROXIMATE. THEY ARE BASED ON AVAILABLE AERIAL PHOTOS AND FIELD MEASUREMENTS.
2. ALL CONTRACTOR WORK ACTIVITIES SHALL REMAIN WITHIN EXISTING WSDOT RIGHT OF WAY, INCLUDING ANY ANCHORS OR ACCESS REQUIRED FOR SLOPE WORK.
3. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE TESC NARRATIVE (APPENDIX C).
4. ALL STATIONS ARE APPROXIMATE.
5. ALL UTILITY LOCATIONS ARE APPROXIMATE.

| | | | | |
|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 11.dgn | | | |
| TIME | 4:04:48 PM | | | |
| DATE | 6/26/2023 | | | |
| PLOTTED BY | Kevin.Cronenwett | | | |
| DESIGNED BY | A. SCHULTZ | | | |
| ENTERED BY | K. CRONENWETT | | | |
| CHECKED BY | K. WISEMAN | | | |
| PROJ. ENGR. | M. CASTILLO | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY |

| REGION NO. | STATE | FED.AID PROJ.NO. |
|---|---|---|
| 10 | WASH | |
| JOB NUMBER 24B001 | | |
| CONTRACT NO. | | LOCATION NO. XL-6412 |

P.E. STAMP BOX — SEE CT1 — DATE

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

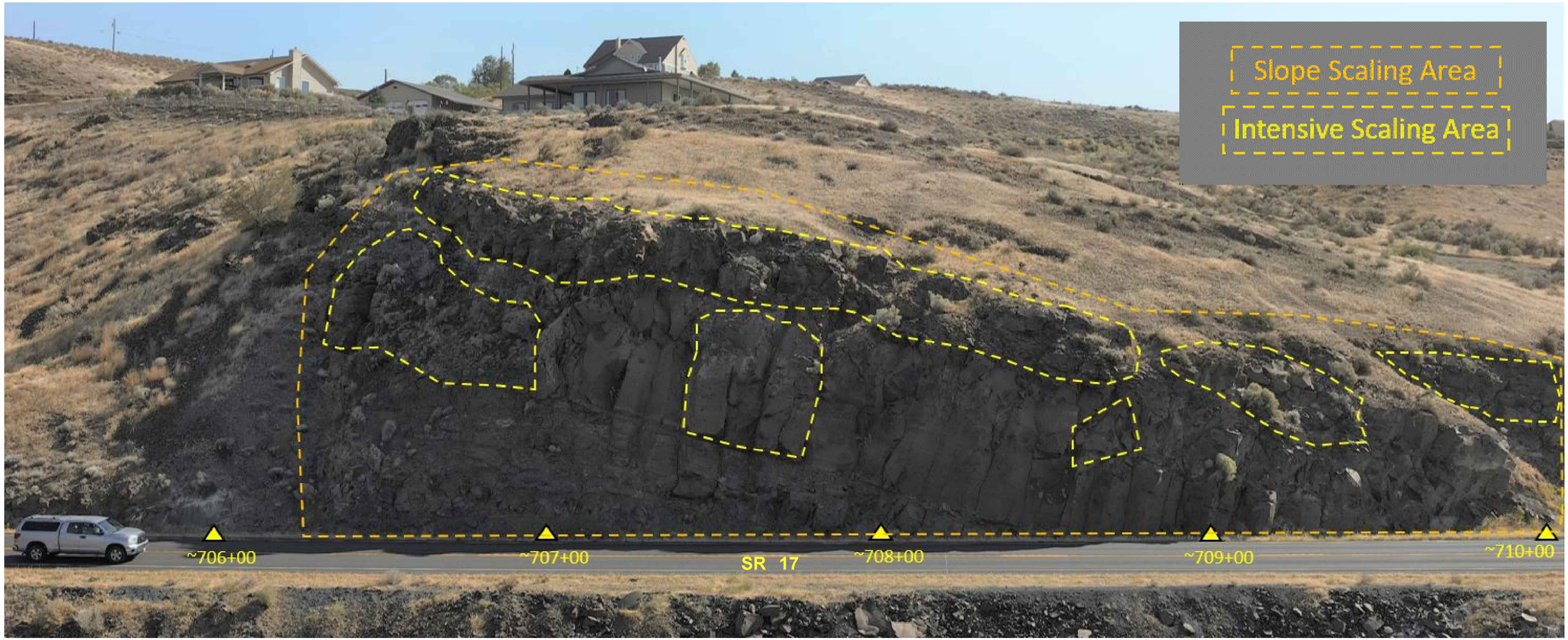
SLOPE 11 SITE PLAN

Plot 1
PLAN REF NO 11SP1
SHEET 48 OF 65 SHEETS

GENERAL NOTE:

1. ACCESS TO ALL SLOPES IS ONLY AVAILABLE FROM THE ROADWAY.
2. SEE SHEET RS1 AND MD1 FOR PAVEMENT REPAIR AND GUARDRAIL PROTECTION DETAILS ASSOCIATED WITH ROCK SCALING OPERATIONS.

# T. 22N. R. 27E. W.M.
# SECTION 18
# SLOPE 11




NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_Slope 11.dgn | | | | | | |
| TIME | 8:53:31 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Engineering Geologist 2869 Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

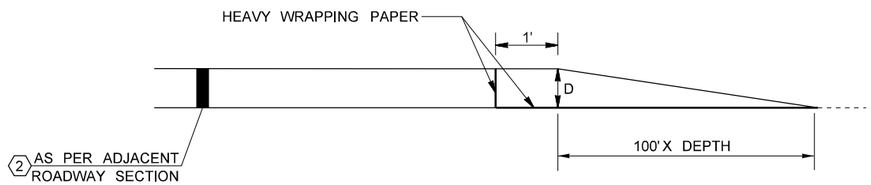
PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

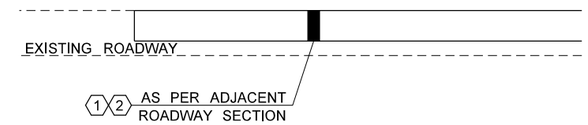
SR 17
SOAP LAKE TO LAKE LENORE CAVES UNSTABLE SLOPES RE-ADVERTISEMENT

SLOPE 11 STABILIZATION PLAN

Plot 2
PLAN REF NO 11ST1
SHEET 49 OF 65 SHEETS

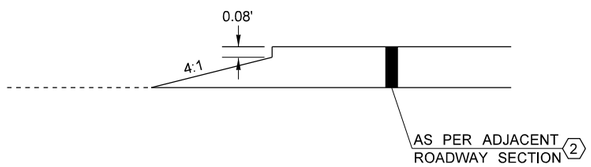



## PAVING CONSTRUCTION JOINT TAPER DETAIL




## PLANING/PAVING TIE-IN DETAIL

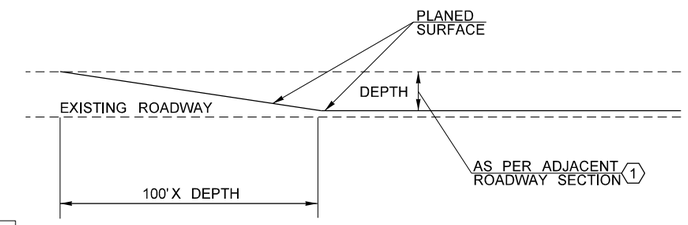
SHALL BE CONSTRUCTED AT BEGIN AND END PROJECT, AND ALL SIDE STREET TIE-IN PERMANENT CONSTRUCTION




## PAVING NOTCHED WEDGE JOINT DETAIL

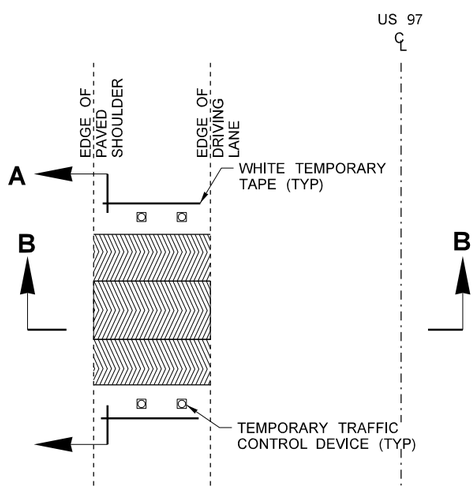
**LEGEND:**

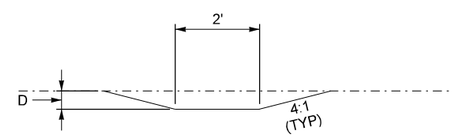
1. PLANING BITUMINOUS PAVEMENT
2. HMA CL. 3/8 IN. PG 64H-28



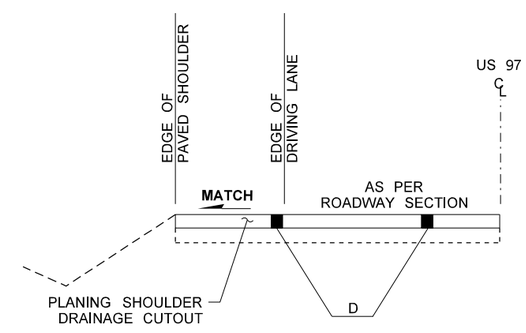

## CONSTRUCTION JOINT PLANED TAPER

APPLICABLE FOR PLANING




## SECTION A-A




## SECTION B-B

D= DEPTH OF PLANING SHOWN ON THE APPLICABLE ROADWAY SECTION.

# PLANING SHOULDER DRAINAGE CUTOUT

SEE SPECIAL PROVISION "PLANING SHOULDER DRAINAGE CUTOUT"

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_PD.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:33 AM | | | | JOB NUMBER 24B001 | | |
| DATE | 6/15/2023 | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | | | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

P.E. STAMP BOX — SEE CT1 — DATE

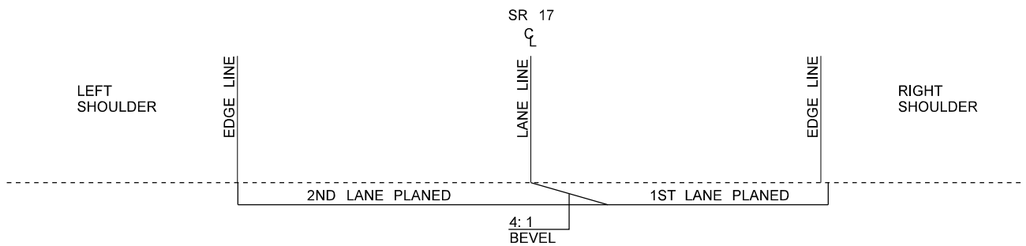
PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

PAVING DETAILS

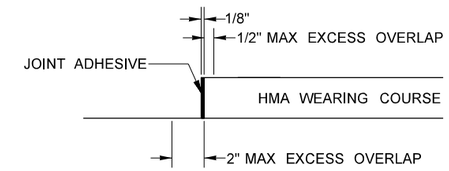
Plot 1
PLAN REF NO PD1
SHEET 50 OF 65 SHEETS

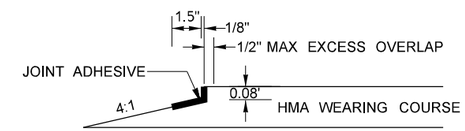



## PLANING CROSS-SECTION DETAIL

NOTES:

1. JOINT ADHESIVE TO BE INSTALLED AT ALL LONGITUDINAL PAVEMENT JOINTS.




## JOINT ADHESIVE DETAIL

SEE SPECIAL PROVISION "JOINT ADHESIVE FOR BITUMINOUS PAVEMENT"

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_PD.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:33 AM | | | | | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

P.E. STAMP BOX — SEE CT1 DATE

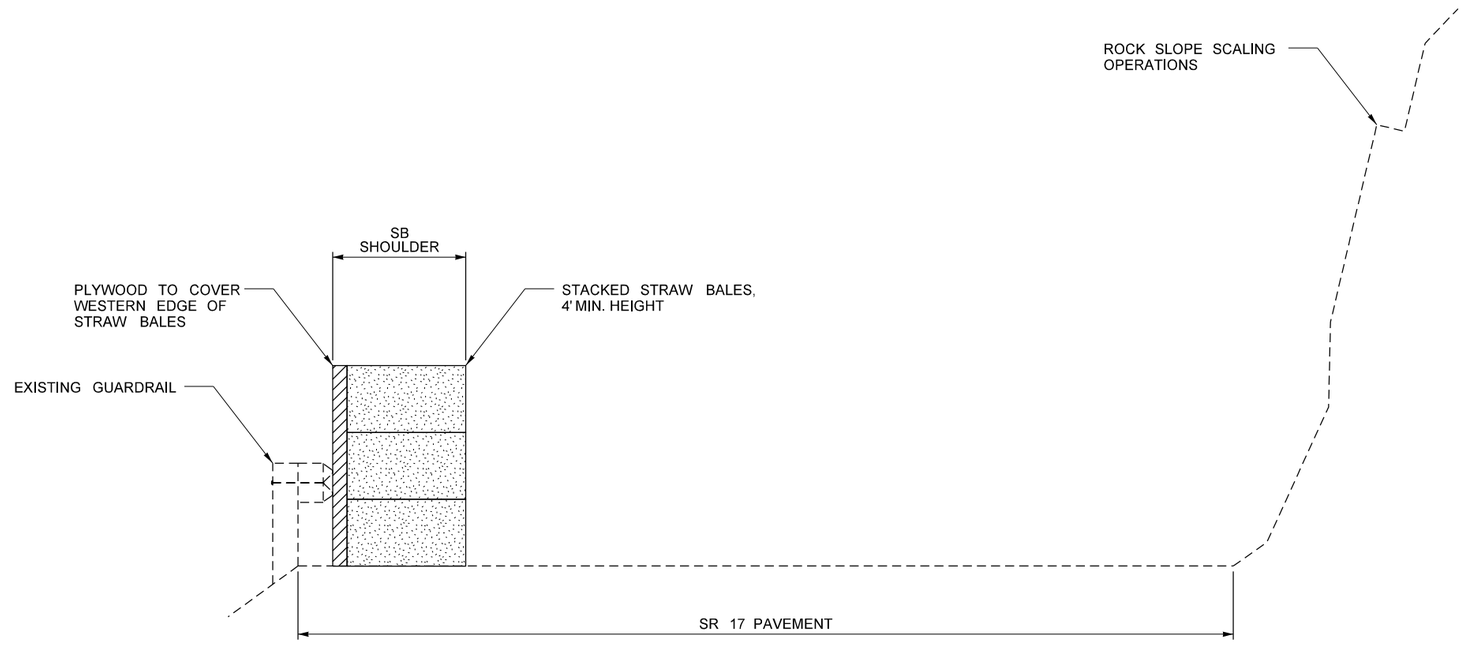
PERTEET
123 OHME GARDEN ROAD, SUITE B
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

PAVING DETAILS

Plot 2
PLAN REF NO PD2
SHEET 51 OF 65 SHEETS




## STRAW BALE - GUARDRAIL PROTECTION

MP 76.86 - MP 77.08
MP 77.35 - MP 77.44
MP 83.04 - MP 83.11
MP 83.18 - MP 83.25
MP 83.27 - MP 83.62

NOT TO SCALE

GENERAL NOTE:

1. SEE SPECIAL PROVISION "STRAW BALE - GUARDRAIL PROTECTION" FOR MORE INFORMATION.

| | | | | |
|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_MD.dgn | | | |
| TIME | 8:53:34 AM | | | |
| DATE | 6/15/2023 | | | |
| PLOTTED BY | Kevin.Cronenwett | | | |
| DESIGNED BY | A. SCHULTZ | | | |
| ENTERED BY | K. CRONENWETT | | | |
| CHECKED BY | K. WISEMAN | | | |
| PROJ. ENGR. | M. CASTILLO | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY |

| REGION NO. | STATE | FED.AID PROJ.NO. |
|---|---|---|
| 10 | WASH | |
| JOB NUMBER 24B001 | | |
| CONTRACT NO. | | LOCATION NO. XL-6412 |

SEE CT1
DATE
P.E. STAMP BOX

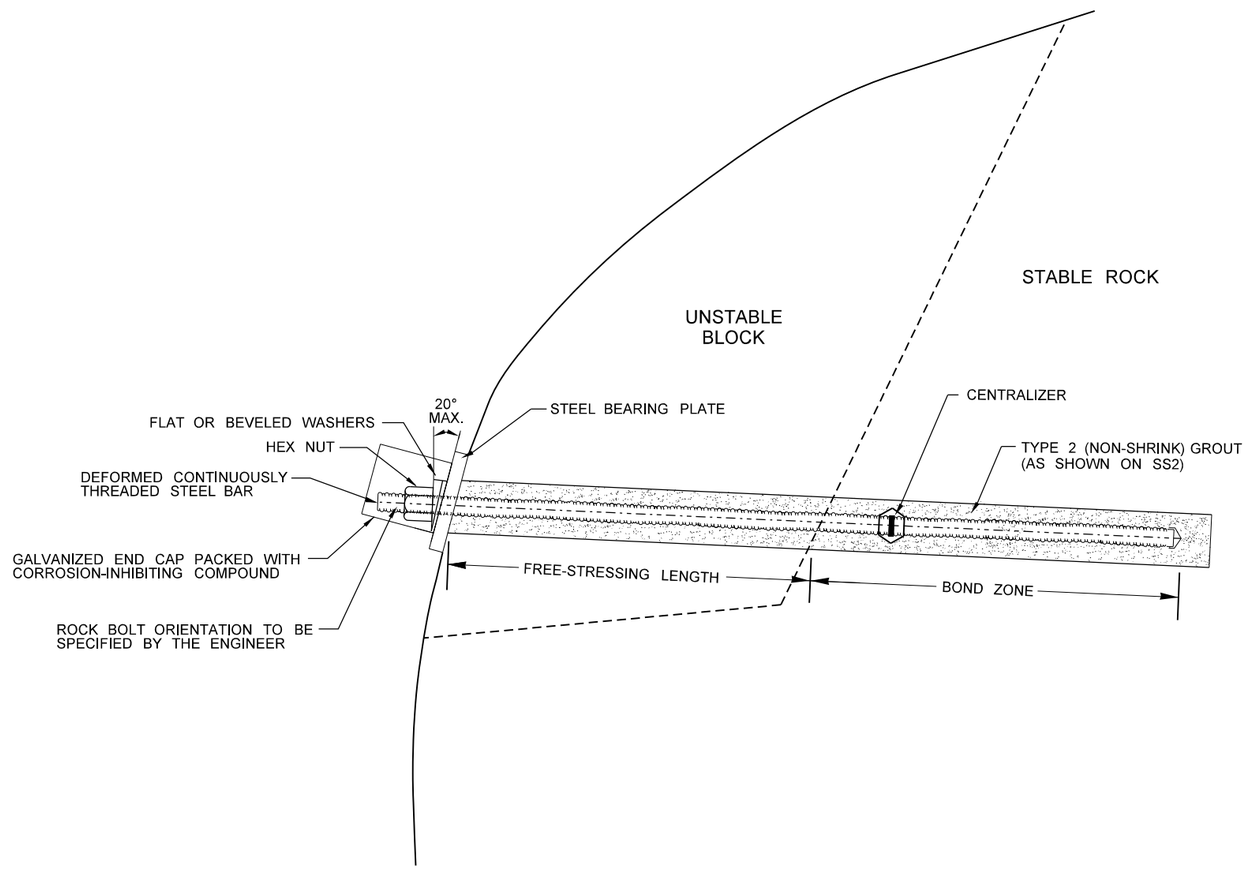
PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

MISCELLANEOUS DETAIL

Plot 1
PLAN REF NO MD1
SHEET 52 OF 65 SHEETS




GENERAL NOTE:

1. SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS" FOR ADDITIONAL INFORMATION.

## TYPICAL ROCK BOLT INSTALLATION

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_SS.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 8:53:38 AM | | | | 10 | WASH | |
| DATE | 6/15/2023 | | | | JOB NUMBER | | |
| PLOTTED BY | Kevin.Cronenwett | | | | 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | K. CRONENWETT | | | | | | XL-6412 |
| CHECKED BY | K. WISEMAN | | | | | | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington, Engineering Geologist, 2869, Licensed Geologist
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

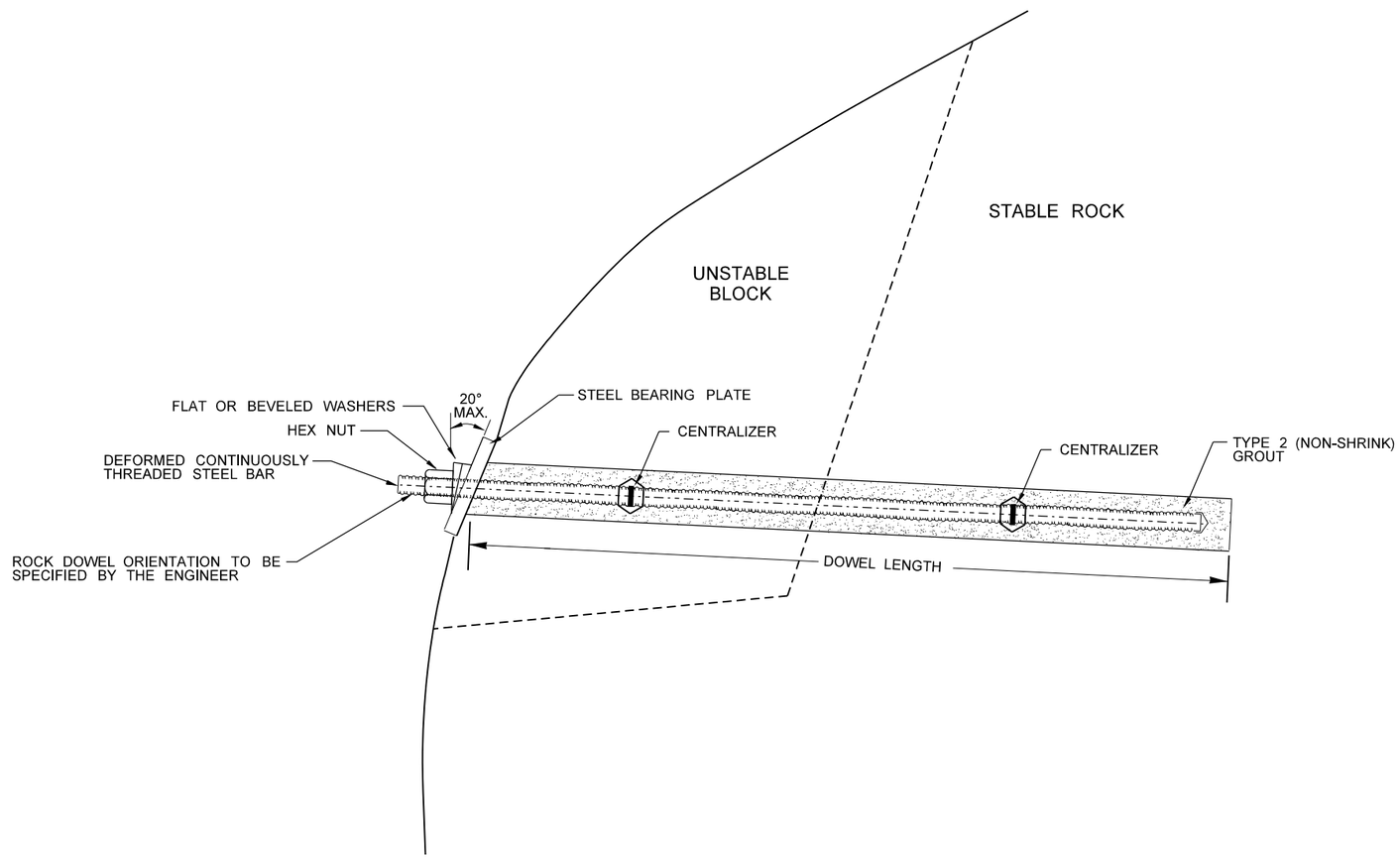
PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

TYPICAL ROCK BOLT DETAIL

Plot 1
PLAN REF NO
SS1
SHEET 53 OF 65 SHEETS




GENERAL NOTE:

1. SEE SPECIAL PROVISION "PERMANENT GROUND ANCHORS" FOR ADDITIONAL INFORMATION.

## TYPICAL TYPE 1 ROCK DOWEL INSTALLATION

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_SS.dgn | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| TIME | 8:53:37 AM | | | | JOB NUMBER 24B001 | | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | | | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist (Engineering Geologist) 2869
Gabriel L. Taylor
SEE CT1
DATE
P.E. STAMP BOX

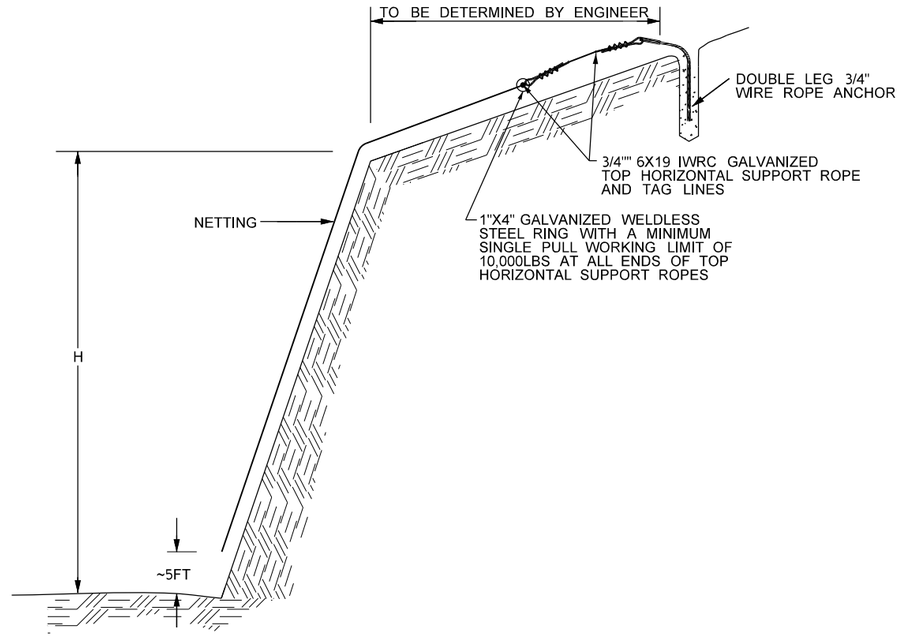
PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

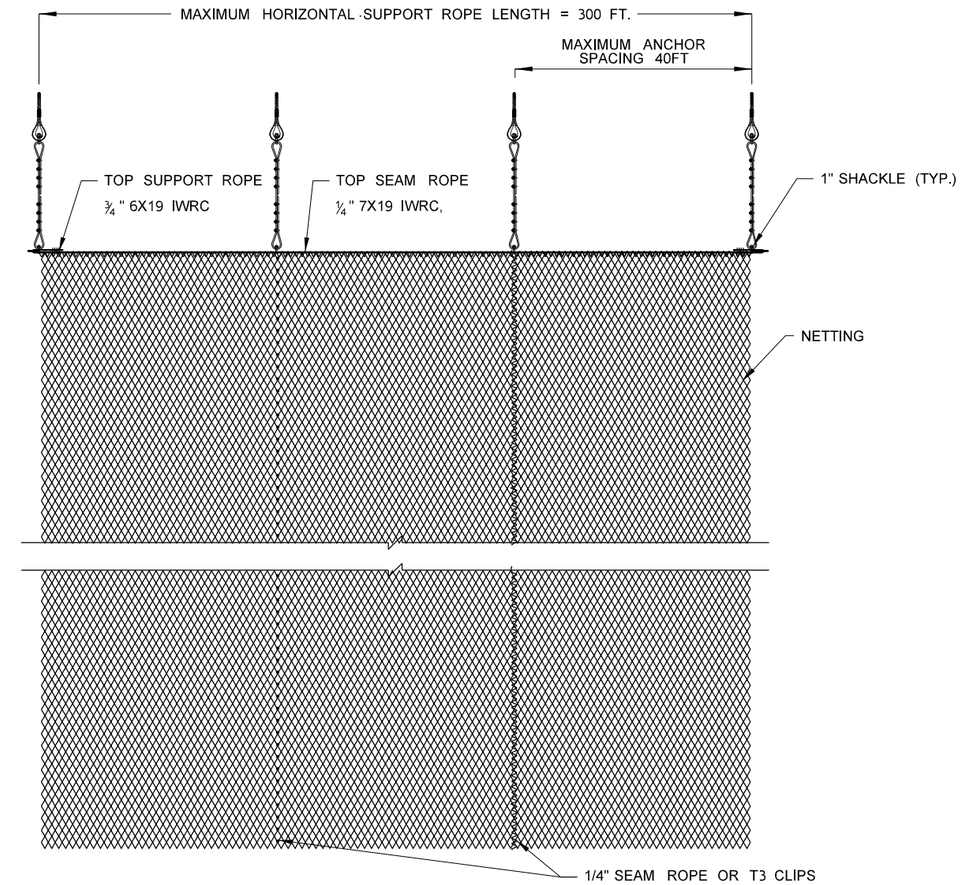
Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

TYPE 1 ROCK DOWEL DETAIL

Plot 2
PLAN REF NO SS2
SHEET 54 OF 65 SHEETS

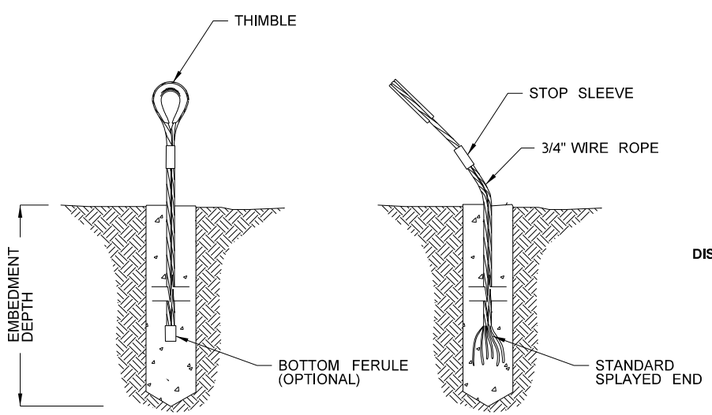


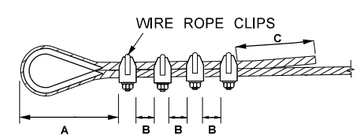

NETTING DETAILS

*NETTING PANELS TO BE SEAMED WITH 5/16" WIRE ROPES THROUGH EACH MESH OPENING.

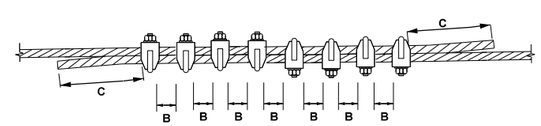
**END OF SEAM ROPE IS TO BE LOOPED ON ITSELF AND TERMINATED WITH 2 WIRE ROPE CLIPS.




## DOUBLE LEG 3/4" WIRE ROPE ANCHOR




**WIRE ROPE DETAIL "AA"**
**DISTANCES A,B,C AND TORQUE TO COMPLY WITH MANUFACTURER'S SPECIFICATIONS**




**WIRE ROPE DETAIL "BB"**
**WIRE ROPE SPLICING**

## TYPE 1 SLOPE PROTECTION

**NOT TO SCALE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_SS.dgn | | | | | | |
| TIME | 8:53:38 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

State of Washington Licensed Geologist, Engineering Geologist, 2869
Gabriel L. Taylor — SEE CT1 — DATE
P.E. STAMP BOX

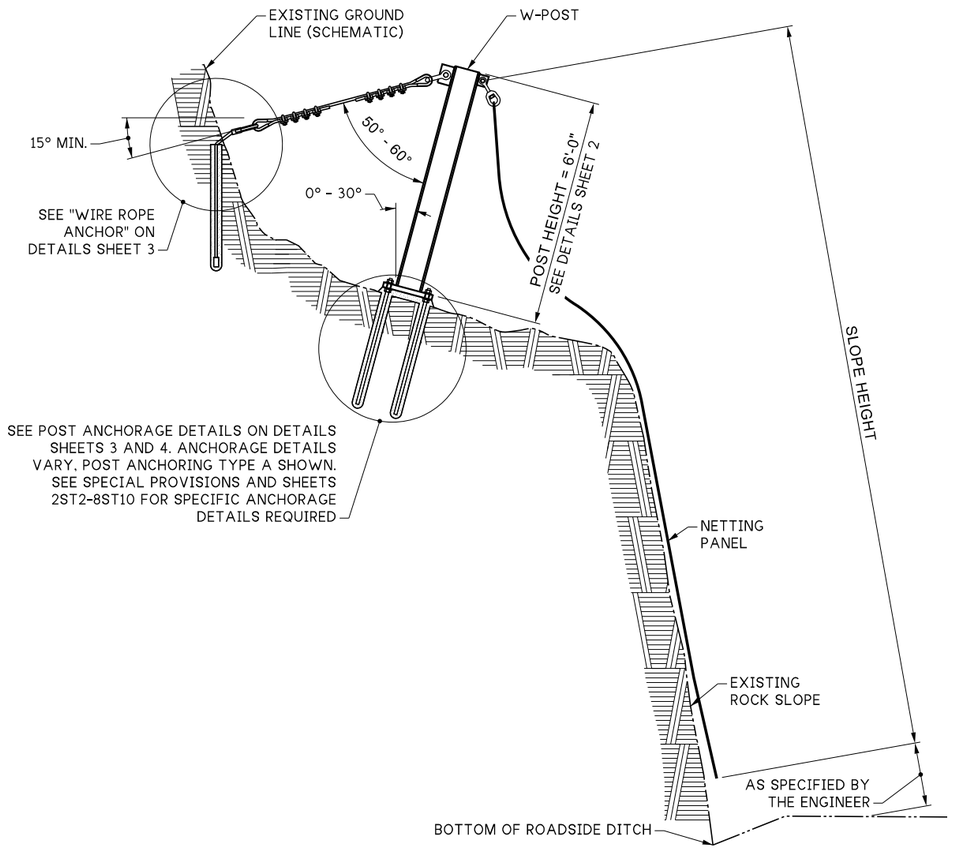
PERTEET
123 OHME GARDEN ROAD, SUITE B
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

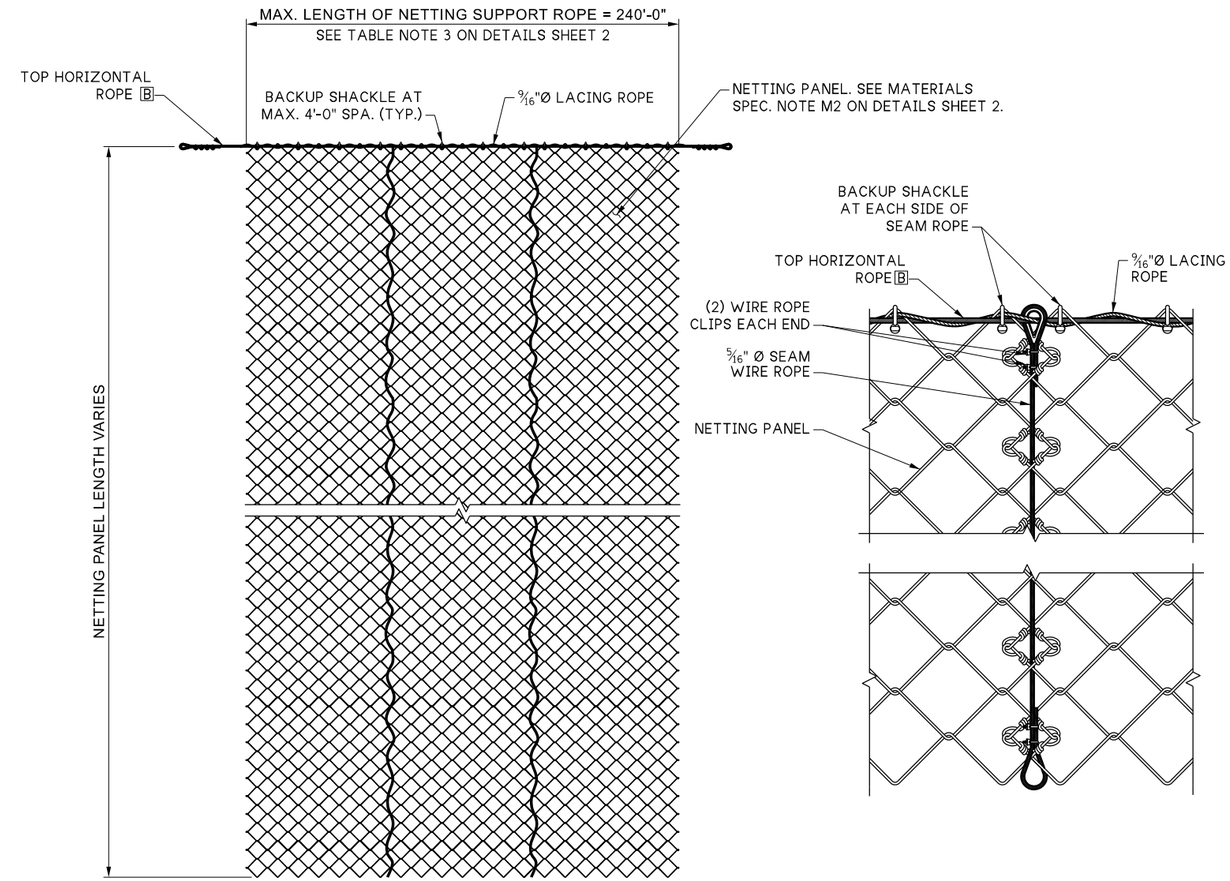
SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

TYPE 1 SLOPE PROTECTION DETAIL

Plot 3
PLAN REF NO SS3
SHEET 55 OF 65 SHEETS




## TYPICAL SECTION




## NETTING PANEL AND CONNECTION DETAIL

## GENERAL NOTES:

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2023.
2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ASCE/SEI 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 2005.
3. NETTING PANELS SHALL BE SEAMED WITH WIRE ROPES THROUGH EACH MESH OPENING. ENDS OF SEAM ROPE SHALL BE LOOPED ONTO ITSELF AND SECURED WITH TWO (2) WIRE ROPE CLIPS.
4. ULTIMATE ROPE ANCHOR CAPACITY PER TABLE ON DETAILS SHEET 2.
5. ALL WIRE ROPE LOOPS SHALL INCLUDE A STANDARD WEIGHT THIMBLE.
6. BACK-UP SHACKLES CONNECTING ROPE B TO NETTING PANELS SHALL BE SPACED AT 2'-0" MAXIMUM AND SHALL BE SIZED TO ENGAGE ROPE B, THE 9/16"Ø LACING ROPE, AND THE NETTING PANEL.
7. THE FALLING ROCK LOAD USED IN THE DESIGN IS EQUAL TO 1.7 KIP/FT APPLIED OVER THE MIDDLE 4 FT OF THE NETTING SUPPORT ROPE B AND CORRESPONDS TO 100 FT-TON MAXIMUM IMPACT ENERGY.
8. THE DESIGN ICE LOAD ON THE NETTING PANEL IS 5.7 PSF.

## END AND CONNECTION POSTS

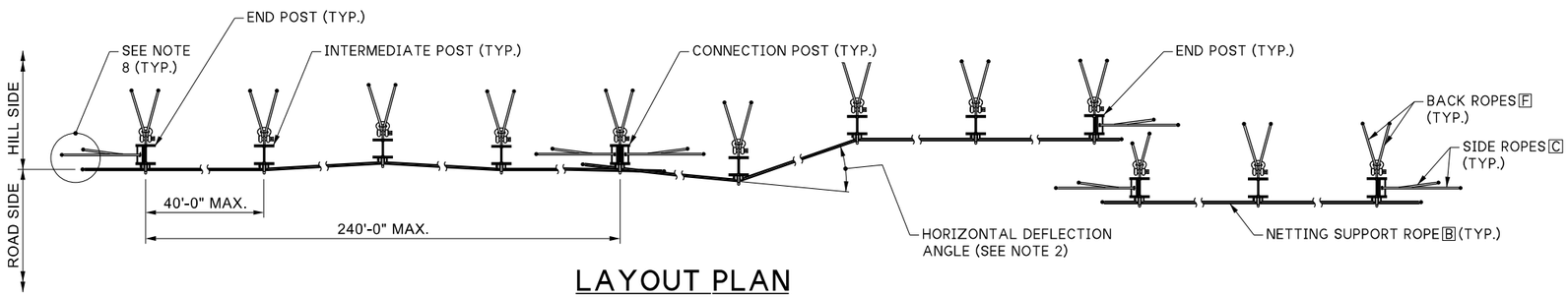
| SLOPE HEIGHT | END & CONNECTION POSTS [1,2] | | POST ANCHORAGE | | | NETTING SUPPORT ROPE CONNECTION | | | | | SIDE ROPE CONNECTION | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HEIGHT | SIZE | PLATE A | WELD Aa | WELD Ab | ROPE B [3] | PLATE B [4] | HOLE B (DIA.) | WELD B | SWIVEL B [5] | ROPE C | PLATE C | HOLE C (DIA.) | WELD C |
| 100' | 6' | W 8 x 40 | ¾ x 16 x 1'-4 | 7/16 | ¼ | ¾" | 1 x 4 x 0'-6 | 1¼" | ½ | 1 | ¾" | ½ x 4 x 0'-7 | 1¾" | 5/16 |
| | 12' | W 8 x 40 | | | | | | | | | | | | |
| | 20' | W 8 x 48 | | | | | | | | | | | | |
| 200' | 6' | W 8 x 48 | 1 x 16 x 1'-4 | 9/16 | ¼ | 1" | 1½ x 4⅜ x 0'-6 | 1½" | 9/16 | 1¼ | 1" | ¾ x 4½ x 0'-7 | 2⅛" | 5/16 |
| | 12' | W 8 x 48 | 1 x 16 x 1'-4 | 7/16 | | | | | | | | ¾ x 4½ x 0'-7 | | |
| | 20' | W 10 x 49 | 1 x 18 x 1'-6 | 7/16 | | | | | | | | ¾ x 4½ x 0'-8¾ | | |
| 300' | 6' | W 8 x 58 | 1¼ x 16 x 1'-4 | ¾ | 5/16 | 1⅛" | 1¾ x 7½ x 0'-9 | 2⅜" | 9/16 | 1½ | 1⅛" | ⅞ x 5 x 0'-7 | 2⅜" | ½ |
| | 12' | W 10 x 54 | 1¼ x 18 x 1'-6 | ½ | | | | | | | | ⅞ x 5 x 0'-8¾ | | |
| | 20' | W 10 x 60 | 1¼ x 18 x 1'-6 | 7/16 | | | | | | | | ⅞ x 5 x 0'-8¾ | | |

## INTERMEDIATE POSTS

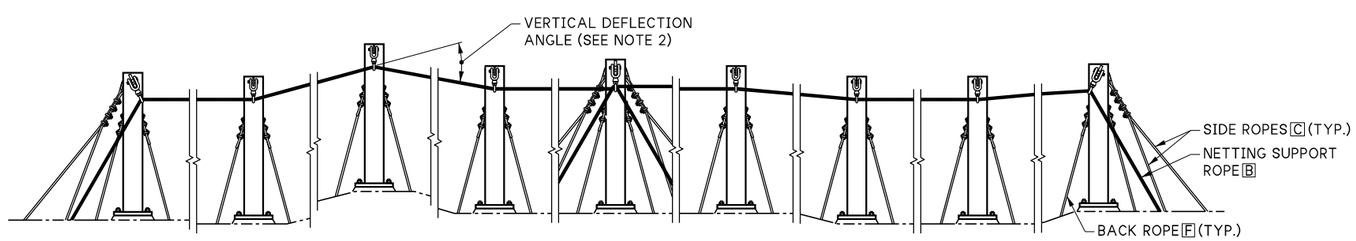
| SLOPE HEIGHT | END & CONNECTION POSTS [1,2] | | POST ANCHORAGE | | | NETTING SUPPORT ROPE CONNECTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | HEIGHT | SIZE | PLATE D | WELD Da | WELD Db | ROPE B [3] | PLATE E | HOLE E (DIA.) | WELD E | SWIVEL E [5] |
| 100' | 6' | W 8 x 35 | ¾ x 16 x 1'-4 | 5/16 | ¼ | ¾" | ½ x 3 x 0'-3½ | 1" | 5/16 | ⅞ |
| | 12' | | | | | | | | | |
| | 20' | | | | | | | | | |
| 200' | 6' | W 8 x 35 | 1 x 16 x 1'-4 | 9/16 | ¼ | 1" | ¾ x 3½ x 0'-4½ | 1¼" | 7/16 | 1 |
| | 12' | | 1 x 16 x 1'-4 | | | | | | | |
| | 20' | | 1 x 18 x 1'-6 | | | | | | | |
| 300' | 6' | W 8 x 48 | 1¼ x 16 x 1'-4 | ¾ | 5/16 | 1⅛" | 1 x 4 x 0'-5 | 1½" | ½ | 1¼ |
| | 12' | | 1¼ x 18 x 1'-6 | | | | | | | |
| | 20' | | 1¼ x 18 x 1'-6 | | | | | | | |

## MIN. PULLOUT ROPE ANCHOR CAPACITY [6,7]

| SLOPE DISTANCE | CAPACITY (KIPS) | | |
|---|---|---|---|
| | SUPPORT ROPE B | SIDE ROPE C (PER ROPE) | BACK ROPE F (PER ROPE) |
| 100' | 58 | 32 | 18 |
| 200' | 103 | 57 | 27 |
| 300' | 130 | 72 | 37 |




## LAYOUT PLAN




## LAYOUT ELEVATION

## TABLE NOTES:

1. MAXIMUM SPACING BETWEEN POSTS - 40 FT.
2. POSTS SHALL BE ALIGNED WITH 15° MAXIMUM HORIZONTAL DEFLECTION ANGLE AND 30° MAXIMUM VERTICAL DEFLECTION ANGLE.
3. MAXIMUM NETTING SUPPORT ROPE LENGTH - 240 FT. (I.E. 6 POST SPACINGS AT 40 FT.). NETTING SUPPORT ROPE SHALL BE TERMINATED AT A CONNECTION OR END POST.
4. BEVEL THE LOWER CORNER OF PLATE B BY 1¾" (SEE DETAILS ON DETAILS SHEET 5).
5. ALL SWIVELS SHALL BE JAW END TYPE.
6. FOR ROPE B, DOUBLE ANCHORS WITH INDIVIDUAL TAG LINES MAY BE USED AS AN ALTERNATIVE TO A SINGLE ANCHOR IN ORDER TO ACHIEVE THE REQUIRED CAPACITY. THE ANGLE BETWEEN A TAG LINE AND THE AXIS OF THE CORRESPONDING ANCHOR SHALL BE LESS THAN 30°. ANCHORS AND TAG LINES SHALL HAVE A MINIMUM OF 60% OF THE REQUIRED CAPACITY FOR A SINGLE ANCHOR.
7. CAPACITY SHALL BE OBTAINED BY PROOF TESTING. SEE THE SPECIAL PROVISIONS.
8. MINIMUM SPACING BETWEEN ANCHORS IS EQUAL TO HALF THE EMBEDMENT LENGTH OF ROPE B ANCHOR.

## MATERIAL SPECIFICATION NOTES:

M1. SEE SPECIAL PROVISIONS FOR TYPE 2 SLOPE PROTECTION SYSTEM NETTING REQUIREMENTS.

M2. THIMBLES AND WIRE ROPE CLIPS SHALL CONFORM TO SECTION 9-16.4(4).

M3. ALL WIRE ROPE SHALL BE INDEPENDENT WIRE ROPE CLASS (IWRC), EIP STEEL, 6X19 CLASS, MEETING ASTM A1023 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A603 CLASS A. MATERIAL ACCEPTANCE SHALL BE BASED ON SECTION 9-16.4(3). SEAM ROPE MAY BE IWRC, EIP STEEL, 7X19 CLASS AND GALVANIZED AS SPECIFIED.

M4. THREADED BAR GROUND ANCHORS SHALL CONFORM TO SECTION 9-16.4(6), GRADE 60 OR BETTER. HARDENED WASHERS SHALL CONFORM TO ASTM F436.

M5. HOLLOW-CORE THREADED BAR ANCHORS SHALL CONFORM TO 9-16.4(6) EXCEPT STEEL TUBING MAY CONFORM TO ASTM A519 OR ASTM A513.

M6. STEEL REINFORCING BARS SHALL CONFORM TO SECTION 9-07.2.

M7. THREADED BAR GROUND ANCHORS, HOLLOW-CORE THREADED BARS, AND STEEL REINFORCING BARS SHALL BE EPOXY-COATED IN ACCORDANCE WITH SECTIONS 6-02.3(24)H AND 9-07.3 OR SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS A OR ASTM A767 CLASS 1, CHROMATE TREATMENT NOT REQUIRED.

M8. COUPLERS AND NUTS FOR THE THREADED BAR GROUND ANCHORS AND HOLLOW-CORE THREADED BARS SHALL PROVIDE 100 PERCENT OF THE GUARANTEED MINIMUM TENSILE STRENGTH.

M9. JAW END SWIVELS SHALL BE GALVANIZED AFTER FABRICATION AND SHALL MEET THE PERFORMANCE REQUIREMENTS OF FEDERAL SPECIFICATION RR-C-271D TYPE VII, CLASS 3.

M10. SCREW PIN ANCHOR SHACKLES SHALL BE GALVANIZED AFTER FABRICATION AND SHALL MEET THE PERFORMANCE REQUIREMENTS OF FEDERAL SPECIFICATION RR-C-271G TYPE IVA, GRADE A, CLASS 2. BACK-UP SHACKLES SHALL BE SCREW PIN OR MAY BE ROUND PIN ANCHOR TYPE AND SHALL MEET THE PERFORMANCE REQUIREMENTS OF FEDERAL SPECIFICATION RR-C-271G, TYPE IVA OR IVB, GRADE A, CLASS 1 AND SHALL BE GALVANIZED.

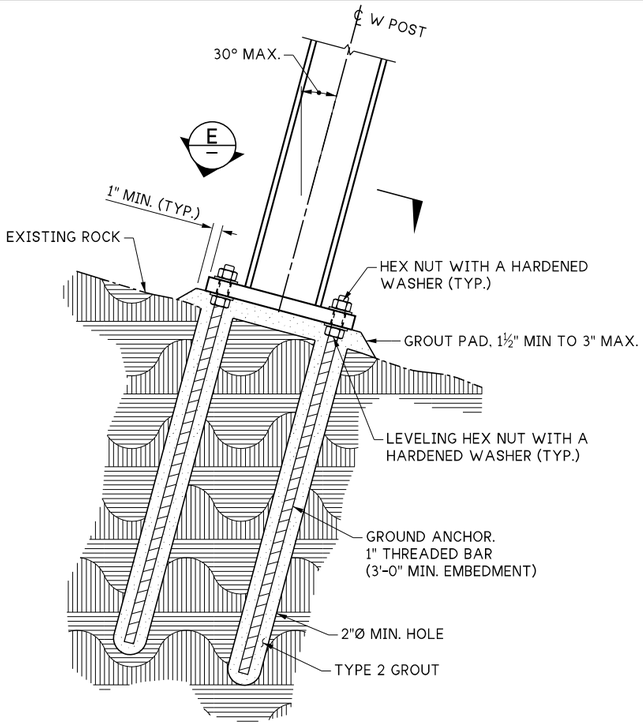
M11. STEEL POSTS SHALL CONFORM TO ASTM A992 OR ASTM A572 GR 50. BARS AND PLATES WELDED TO STEEL POSTS SHALL CONFORM TO ASTM A572 GR 50. NUTS SHALL CONFORM TO EITHER ASTM A563 GR B, HEXAGONAL, OR SECTION 9-07.11. WASHERS SHALL CONFORM TO ASTM F436, EXCEPT THAT PLATE WASHERS SHALL CONFORM TO ASTM A36 OR ASTM A572.

M12. UNLESS OTHERWISE NOTED, POSTS, HARDWARE, BARS AND PLATES SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 111, AASHTO M 232, OR ASTM F2329 AS APPLICABLE.

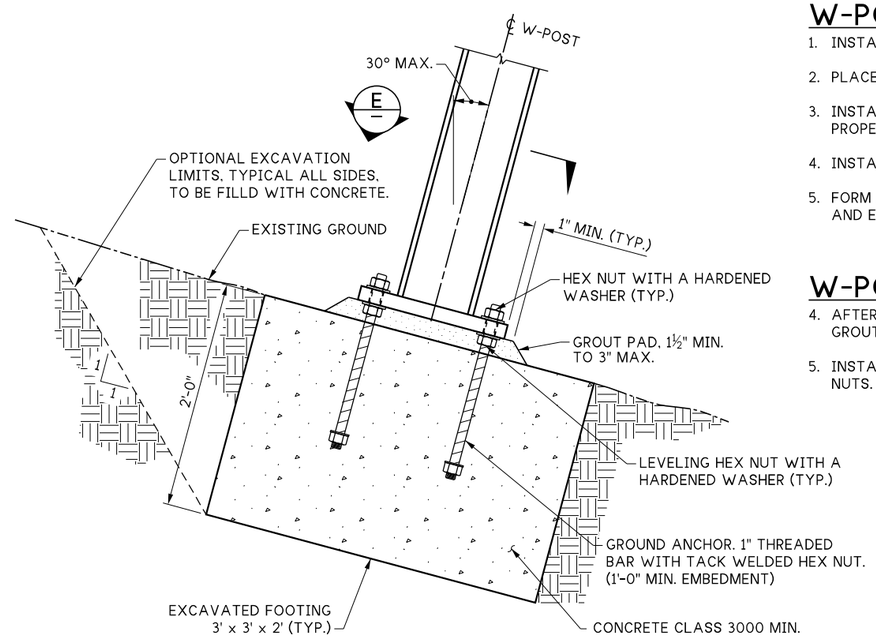
M13. CONCRETE SHALL CONFORM TO SECTION 9-16.4(6).

M14. GROUT FOR BACK-ROPE ANCHORS AND HOLLOW-CORE THREADED BARS SHALL CONFORM TO SECTION 9-20.3(2) AND BE A PROVEN, SAND-FREE, NO-SHRINK MATERIAL CAPABLE OF DEVELOPING THE BOND AND INTERNAL STRENGTH NECESSARY FOR THE REQUIRED CAPACITY. THE USE OF EPOXY OR POLYESTER RESIN AS BONDING AGENTS IS NOT ALLOWED.

M15. IF REQUESTED BY THE ENGINEER, SAMPLES OF GROUT AND/OR CONCRETE SHALL BE PROVIDED.




## TYPE A POST ANCHORAGE



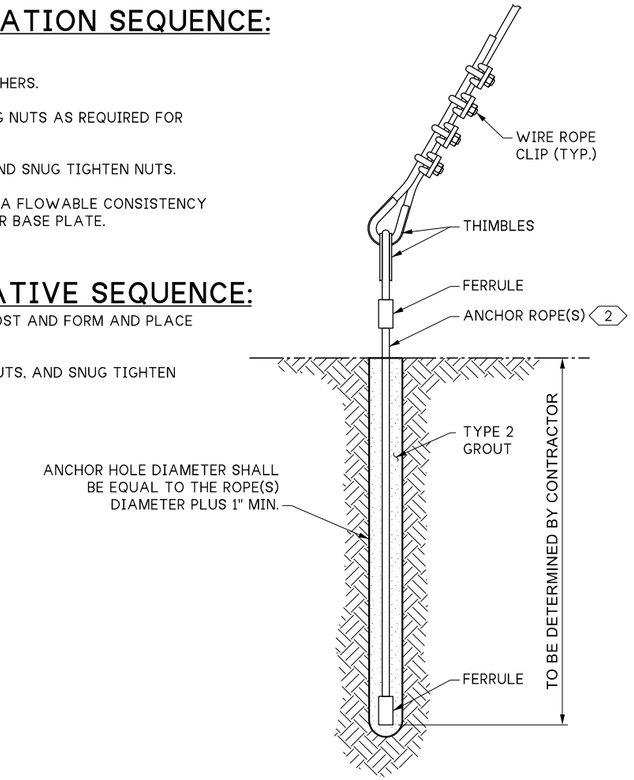

## TYPE B POST ANCHORAGE

## W-POST INSTALLATION SEQUENCE:

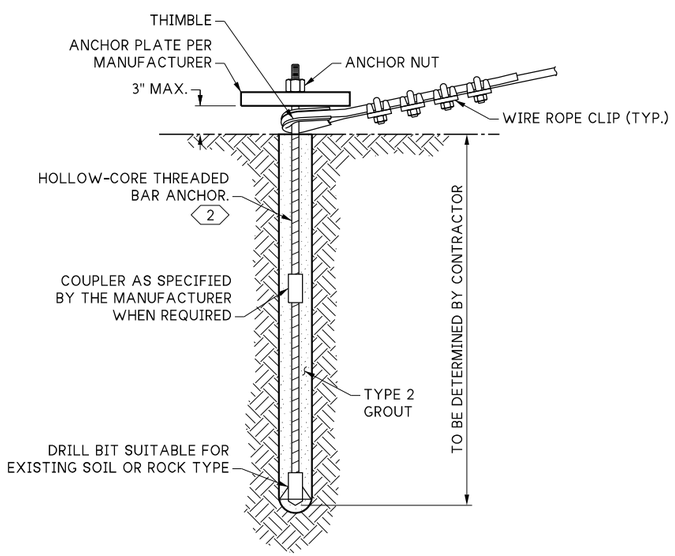
1. INSTALL GROUND ANCHORS.
2. PLACE LEVELING NUTS AND WASHERS.
3. INSTALL POST. ADJUST LEVELING NUTS AS REQUIRED FOR PROPER POST ORIENTATION.
4. INSTALL TOP NUTS, WASHERS, AND SNUG TIGHTEN NUTS.
5. FORM AND PLACE GROUT PAD IN A FLOWABLE CONSISTENCY AND ENSURE FULL BEARING UNDER BASE PLATE.

## W-POST ALTERNATIVE SEQUENCE:

4. AFTER STEP 3 ABOVE, REMOVE POST AND FORM AND PLACE GROUT PAD.
5. INSTALL POST, WASHERS, TOP NUTS, AND SNUG TIGHTEN NUTS.

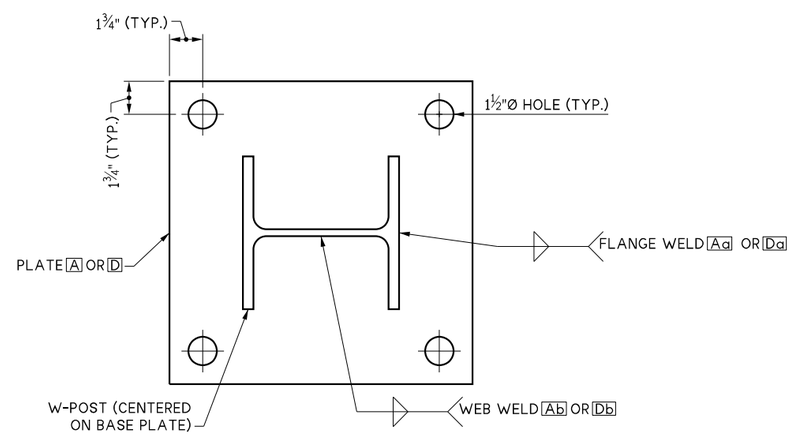



## WIRE ROPE ANCHOR



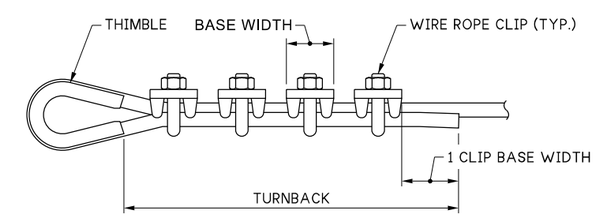

## BAR ANCHOR

ALTERNATIVE TO WIRE ROPE ANCHOR




## SECTION E

1




## WIRE ROPE CONNECTION DETAIL

- TURNBACK LENGTH AND NUMBER OF CLIPS PER MANUFACTURER'S SPECIFICATIONS TO DEVELOP WIRE ROPE CAPACITY.
- FOLLOW MANUFACTURER'S APPLICATION INSTRUCTIONS.

## KEY NOTES:

1. FOR PLATE AND WELD SIZES, REFER TO THE TABLES ON DETAILS SHEET 2.
2. ANCHOR ROPE(S) OR BAR SIZE SHALL BE ADEQUATE TO DEVELOP THE ULTIMATE ROPE ANCHOR CAPACITY LISTED IN THE TABLE ON DETAILS SHEET 2.

| | | | | |
|---|---|---|---|---|
| FILE PATH / NAME | c:\users\deboejak\pw_wsdot\d0546571\Type 2 Slope Protection Details 3 of 6.dgn | | | |
| BRIDGE DES. ENG. | Leland, A | | | |
| BRIDGE PROJ. ENG. | Rosa, M | | | |
| SUPERVISOR | Zeldenrust, R | | | |
| DESIGNED BY | Swett, G | | | |
| CHECKED BY | Miller, W | | | |
| ENTERED BY | Churchill, C | | | |
| PRELIM. PLAN BY | | | | |
| ARCH. / SPEC. | Swett, G | REVISION | DATE | BY |

REGION NO. 10 | STATE WASH | JOB NUMBER 24B001 | CONTRACT NO.

WSDOT

P.E. STAMP BOX — DATE

GEOFFREY D. SWETT — STATE OF WASHINGTON — 38920 — PROFESSIONAL ENGINEER

SEE SHEET CT1 — DATE — P.E. STAMP BOX

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

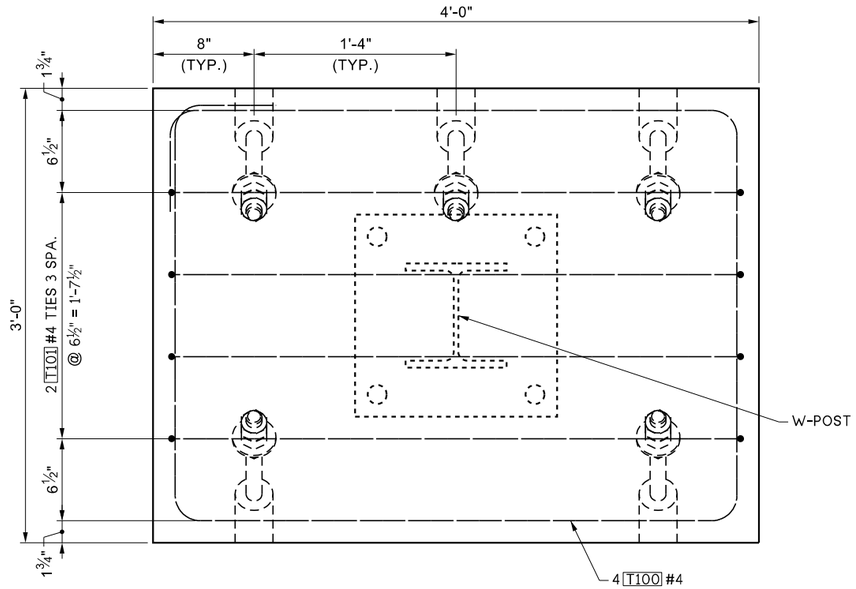
TYPE 2 SLOPE PROTECTION
DETAILS 3 OF 6

PLAN REF NO SS6

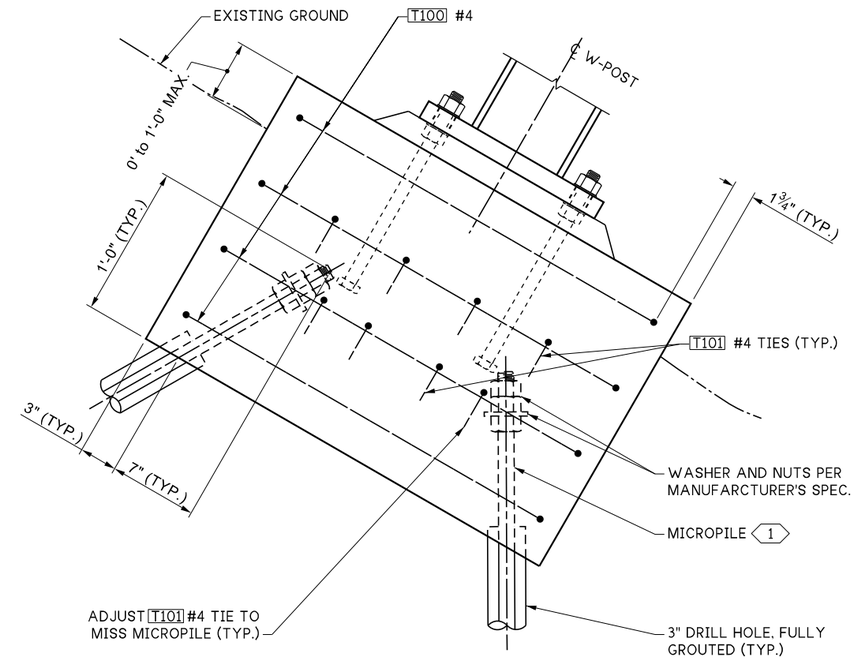
SHEET 58 OF 65 SHEETS

FILE NO. ____ OF ____ BRIDGE SHEET ____ SR ____

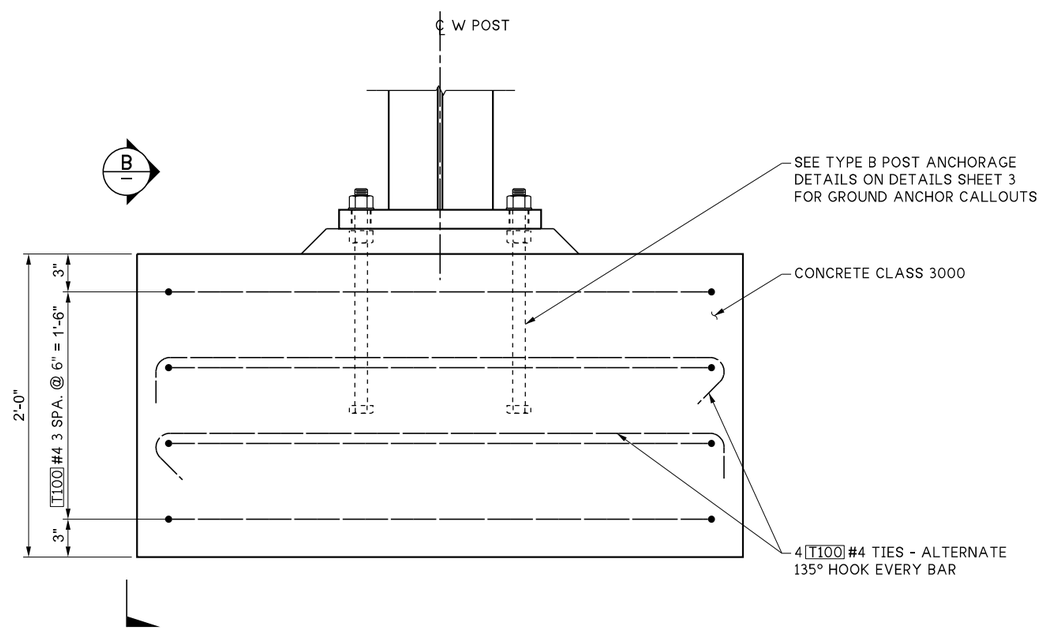
PLOT DATE: 6/26/2023 PLOT TIME: 1:15:12 PM PLOTTED BY: deboejak




## TYPE C POST ANCHORAGE PLAN

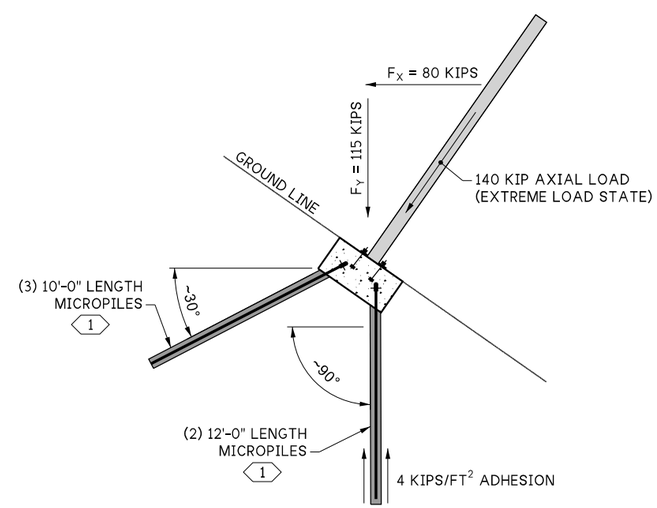



## VIEW B




## TYPE C POST ANCHORAGE ELEVATION

MICROPILES NOT SHOWN FOR CLARITY




## TYPE C POST ANCHORAGE ASSEMBLY AND LOADING

## KEY NOTES:

1. MICROPILES SHALL CONSIST OF A MINIMUM 32mm DIAMETER (MIN. 0.556 SQ-IN NET AREA). HOLLOW CORE THREAD BAR WITH A MINIMUM 3-INCH DIAMETER, SACRIFICIAL DRILL BIT AND BE FULLY GROUTED.

| | | | | |
|---|---|---|---|---|
| FILE PATH / NAME | c:\users\deboejak\pw_wsdot\d0546571\Type 2 Slope Protection Details 4 of 6.dgn | | | |
| BRIDGE DES. ENG. | Leland, A | | | |
| BRIDGE PROJ. ENG. | Rosa, M | | | |
| SUPERVISOR | Zeldenrust, R | | | |
| DESIGNED BY | Swett, G | | | |
| CHECKED BY | Miller, W | | | |
| ENTERED BY | Churchill, C | | | |
| PRELIM. PLAN BY | | | | |
| ARCH. / SPEC. | Swett, G | REVISION | DATE | BY |

| REGION NO. | STATE |
|---|---|
| 10 | WASH |

JOB NUMBER 24B001

CONTRACT NO.

WSDOT

P.E. STAMP BOX DATE

GEOFFREY D. SWETT, STATE OF WASHINGTON, 38920, PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

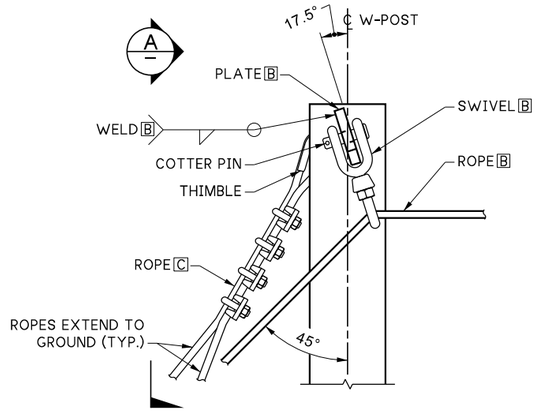
TYPE 2 SLOPE PROTECTION
DETAILS 4 OF 6

PLAN REF NO SS7

SHEET 59 OF 65 SHEETS

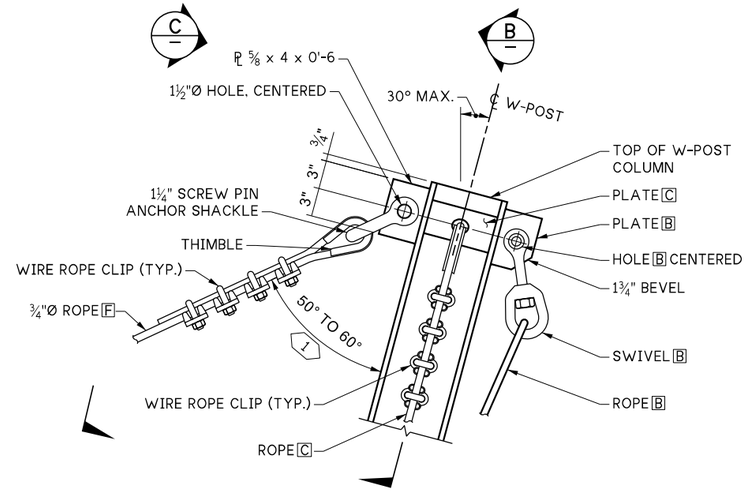
BRIDGE SHEET SR ____ OF ____ FILE NO. ____

PLOT DATE: 6/26/2023 PLOT TIME: 1:15:22 PM PLOTTED BY: deboejak



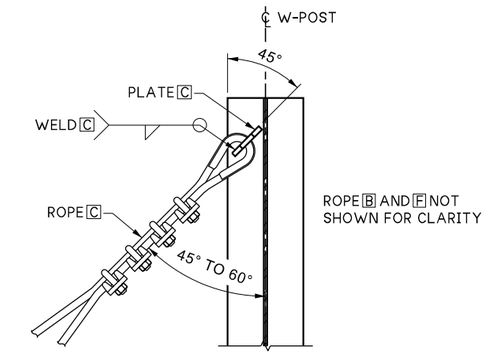

## ELEVATION - END POST

2



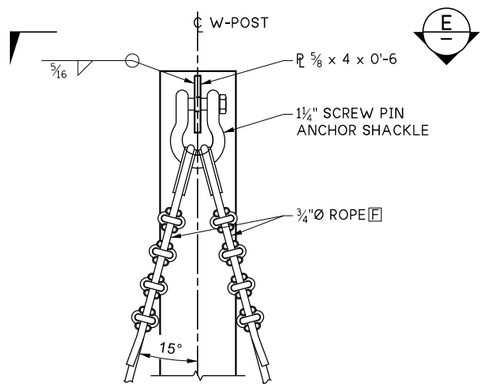

## VIEW A

END POST 2



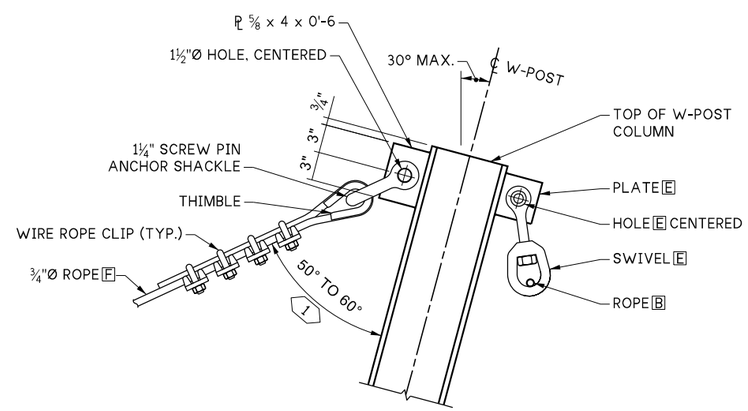

## SECTION B

END POST 2



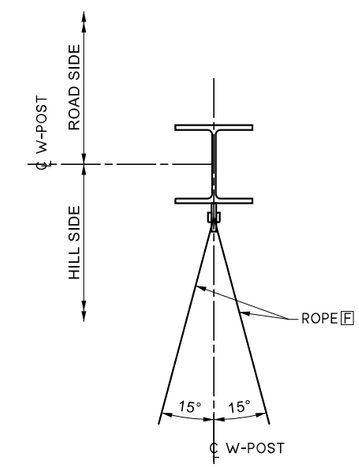

## VIEW C

ALL POSTS 2



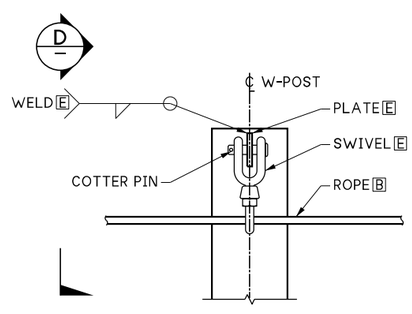

## VIEW D

INTERMEDIATE POST 2




## VIEW E

ALL POSTS




## ELEVATION - INTERMEDIATE POST

## KEY NOTES:

1. ANGLE MUST BE THE SAME FOR BOTH ROPES F.
2. FOR PLATE AND WELD SIZES REFER TO TABLES ON DETAILS SHEET 2.

| | |
|---|---|
| FILE PATH / NAME | c:\users\deboejak\pw_wsdot\d0546571\Type 2 Slope Protection Details 5 of 6.dgn |
| BRIDGE DES. ENG. | Leland, A |
| BRIDGE PROJ. ENG. | Rosa, M |
| SUPERVISOR | Zeldenrust, R |
| DESIGNED BY | Swett, G |
| CHECKED BY | Miller, W |
| ENTERED BY | Churchill, C |
| PRELIM. PLAN BY | |
| ARCH. / SPEC. | Swett, G |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | JOB NUMBER 24B001 | CONTRACT NO.

WSDOT

P.E. STAMP BOX — DATE

GEOFFREY D. SWETT — STATE OF WASHINGTON — PROFESSIONAL ENGINEER

SEE SHEET CT1 — DATE — P.E. STAMP BOX

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

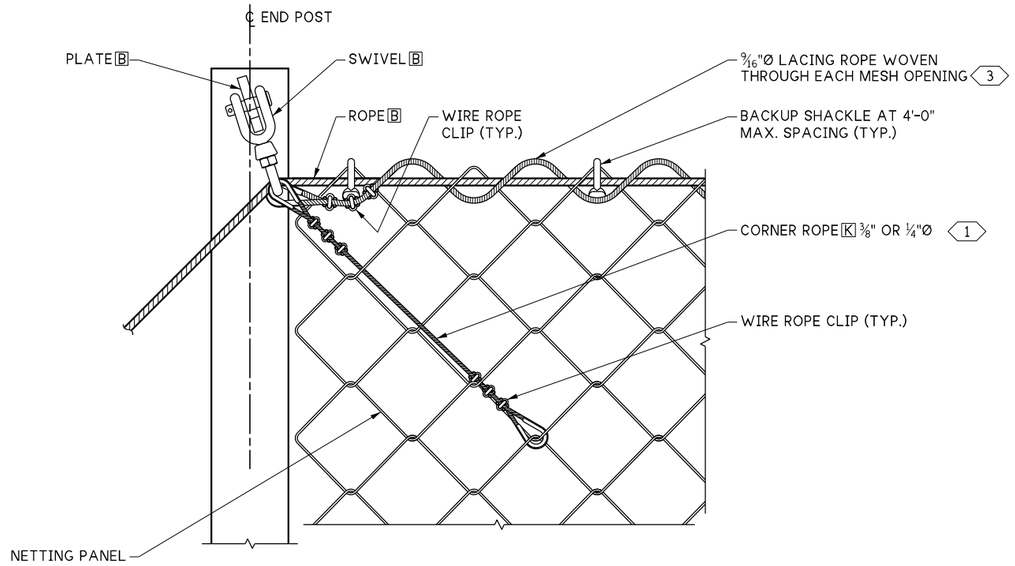
TYPE 2 SLOPE PROTECTION
DETAILS 5 OF 6

PLAN REF NO. SS8

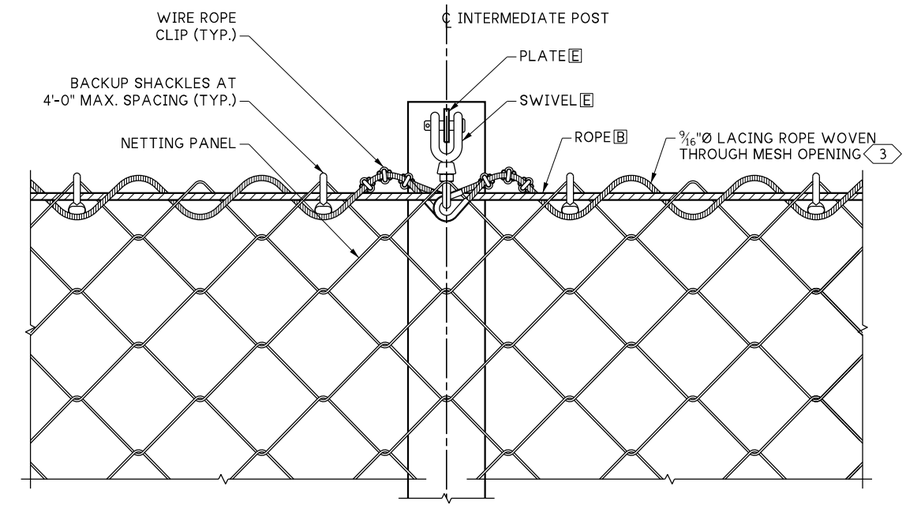
SHEET 60 OF 65 SHEETS

BRIDGE SHEET SR ___ OF ___ FILE NO. ___

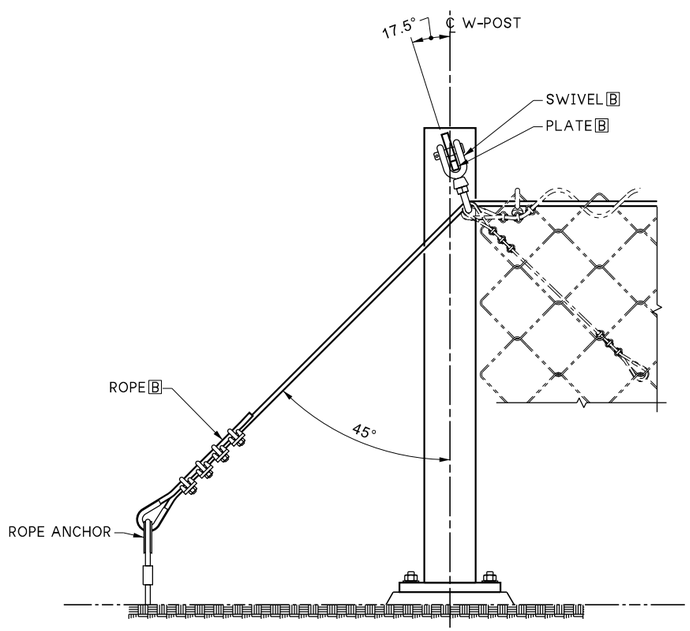
PLOT DATE: 6/26/2023 PLOT TIME: 1:15:28 PM PLOTTED BY: deboejak




## NETTING PANEL AND LACING ROPE TO END POST CONNECTION

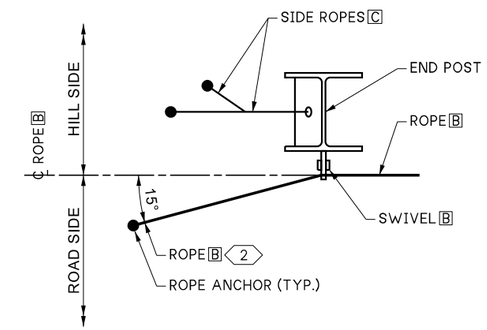



## LACING ROPE TO INTERMEDIATE POST CONNECTION




## SUPPORT ROPE B VERTICAL DEFLECTION ANGLE

ELEVATION VIEW




## SUPPORT ROPE B HORIZONTAL DEFLECTION ANGLE

PLAN VIEW

## KEY NOTES:

1. LOOP CORNER CABLE K THROUGH SWIVEL B ON THE TOP END AND THROUGH THE 5TH DIAGONAL NETTING OPENING ON THE OPPOSITE END.
2. UP TO 15° HORIZONTAL DEFLECTION ANGLE AT THE SWIVEL.
3. ATTACH LACING ROPE TO SWIVEL B.

| | | | | |
|---|---|---|---|---|
| FILE PATH / NAME | c:\users\deboejak\pw_wsdot\d0546571\Type 2 Slope Protection Details 6 of 6.dgn | | | |
| BRIDGE DES. ENG. | Leland, A | | | |
| BRIDGE PROJ. ENG. | Rosa, M | | | |
| SUPERVISOR | Zeldenrust, R | | | |
| DESIGNED BY | Swett, G | | | |
| CHECKED BY | Miller, W | | | |
| ENTERED BY | Churchill, C | | | |
| PRELIM. PLAN BY | | | | |
| ARCH. / SPEC. | Swett, G | REVISION | DATE | BY |

PLOT DATE: 6/26/2023 PLOT TIME: 1:15:33 PM PLOTTED BY: deboejak

| REGION NO. | STATE |
|---|---|
| 10 | WASH |

JOB NUMBER 24B001

CONTRACT NO.

WSDOT

P.E. STAMP BOX DATE

GEOFFREY D. SWETT STATE OF WASHINGTON 39720 PROFESSIONAL ENGINEER

SEE SHEET CT1 DATE

P.E. STAMP BOX

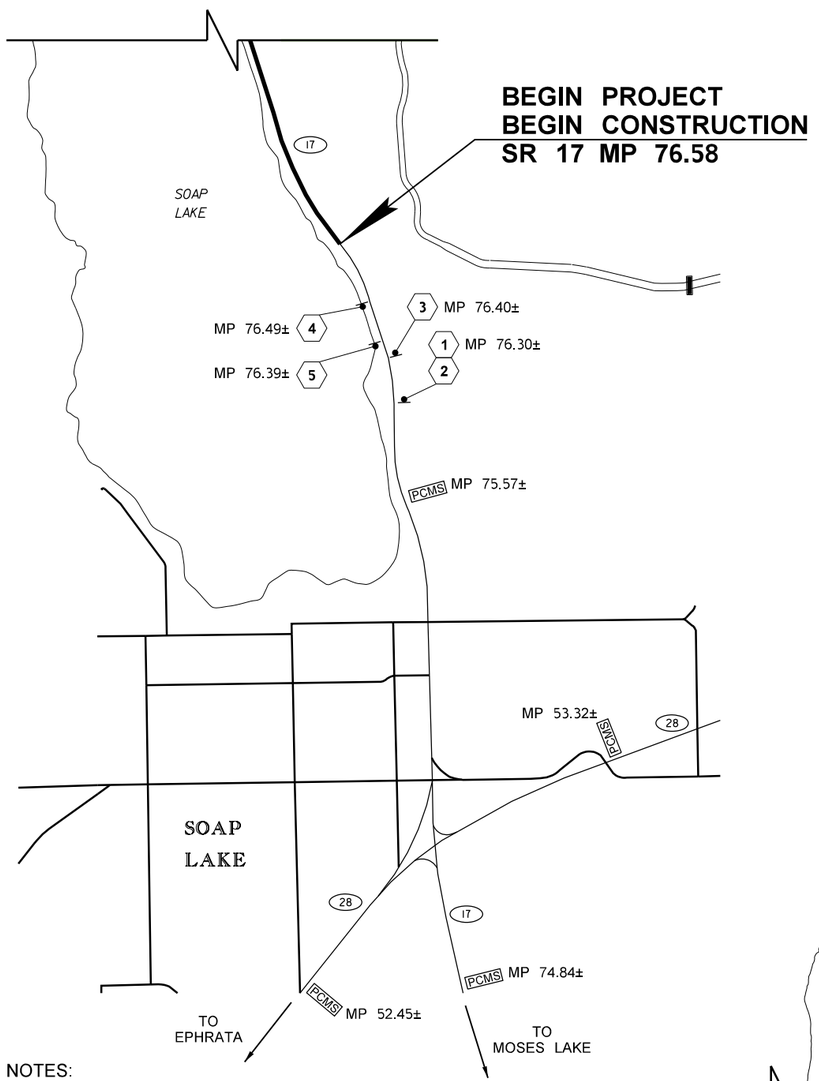
SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

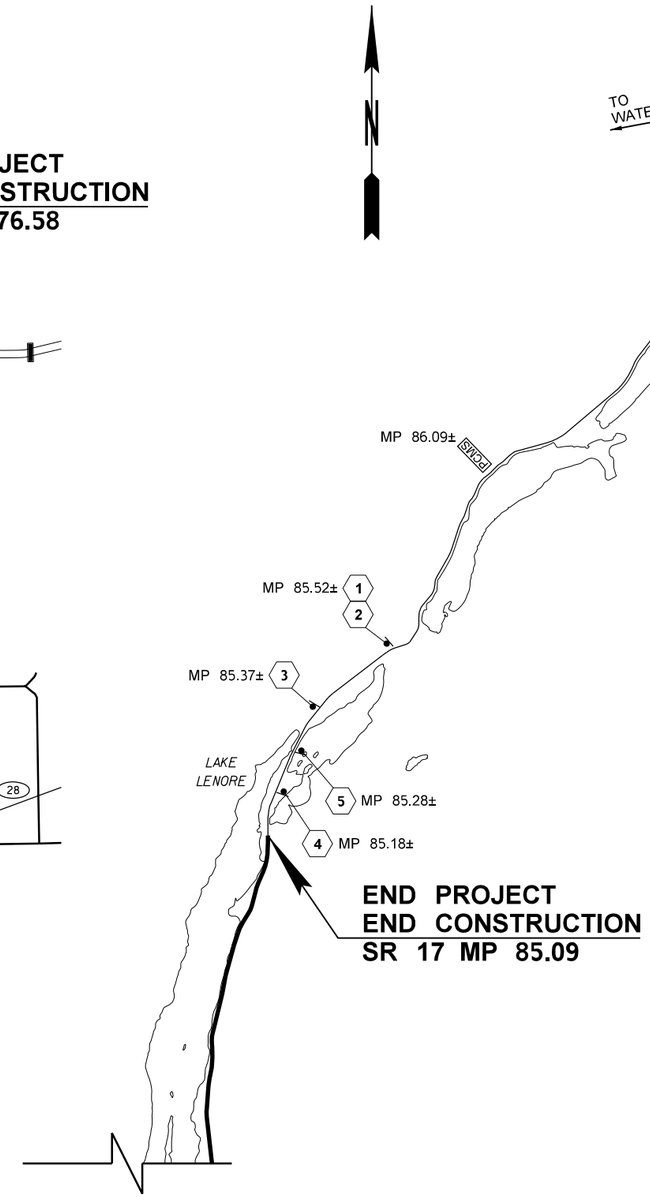
TYPE 2 SLOPE PROTECTION
DETAILS 6 OF 6

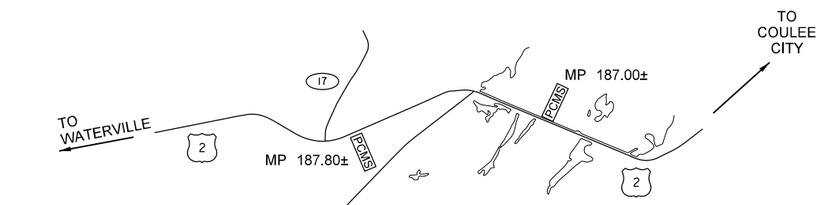
PLAN REF NO SS9

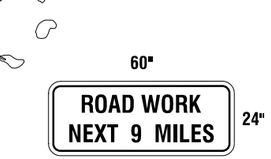
SHEET 61 OF 65 SHEETS

BRIDGE SHEET SR OF FILE NO.




G20-1

2

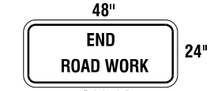
(MOUNT BELOW SIGN 1)

I20-301

3

W20-1

1




G20-2A

4

G24-501

5

LEGEND:

- CLASS A SIGN
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

PCMS MESSAGE PRIOR TO LANE CLOSURES: (SR 17 MP 75.58 AND SR 17 MP 86.09 ONLY) SEE NOTE 4.

| PCMS | | |
|---|---|---|
| 1 | 2 | 3 |
| ROAD WORK AHEAD | MO/DAY - MO/DAY | EXPECT 45 MIN DELAYS |
| 2.0 SEC | 2.0 SEC | 2.0 SEC |

PCMS MESSAGE DURING SINGLE LANE CLOSURES: (SR 17 MP 75.58 AND SR 17 MP 86.09 ONLY)

| PCMS | |
|---|---|
| 1 | 2 |
| LANE CLOSURE AHEAD | EXPECT 30 MIN DELAYS |
| 2.0 SEC | 2.0 SEC |

PCMS MESSAGE DURING TEMPORARY ROAD CLOSURES: (SR 17 MP 75.58 AND SR 17 MP 86.09 ONLY)

| PCMS | |
|---|---|
| 1 | 2 |
| ROAD CLOSURE AHEAD | OPEN AT TOP OF THE HOUR |
| 2.0 SEC | 2.0 SEC |

PCMS MESSAGE (SR 17 MP 75.58 AND SR 17 MP 86.09 ONLY ✱):

| PCMS | | |
|---|---|---|
| 1 | 2 | 3 |
| ROAD CLOSED AHEAD | #AM - #PM | USE OTHER ROUTES |
| 2.0 SEC | 2.0 SEC | 2.0 SEC |

PCMS MESSAGE (SR 28 AND SR 17 MP 74.84 ONLY ✱):

| PCMS | | |
|---|---|---|
| 1 | 2 | 3 |
| SR 17 N OF SOAP LAKE | CLOSED MO/DAY #AM - #PM | USE OTHER ROUTES |
| 2.0 SEC | 2.0 SEC | 2.0 SEC |

PCMS MESSAGE (US 2 ONLY ✱):

| PCMS | | |
|---|---|---|
| 1 | 2 | 3 |
| SR 17 S OF US 2 | CLOSED MO/DAY #AM - #PM | USE OTHER ROUTES |
| 2.0 SEC | 2.0 SEC | 2.0 SEC |

✱ TO BE USED FOR EXTENDED ROADWAY CLOSURES, SEE SPECIAL PROVISION "PUBLIC NOTIFICATION." FOR SECOND PANEL, INSERT DATES AND TIMES OF PLANNED EXTENDED CLOSURES.

NOTES:

1. SEE STANDARD PLAN K-80.10 FOR CLASS A CONSTRUCTION SIGNING INSTALLATION.
2. ALL SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.
3. ALL SIGNS ARE CLASS A UNLESS OTHERWISE NOTED.
4. PCMS SHALL BE PLACED SEVEN DAYS IN ADVANCE OF LANE CLOSURES.
5. SEE SPECIAL PROVISION "PUBLIC NOTIFICATION" FOR ADVANCE NOTIFICATION REQUIREMENTS.

NOT TO SCALE

| | | | | | | |
|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_TC.dgn | | | | | |
| TIME | 8:53:41 AM | | | | REGION NO. 10 | STATE WASH | FED.AID PROJ.NO. |
| DATE | 6/15/2023 | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | | |
| DESIGNED BY | A. SCHULTZ | | | | JOB NUMBER 24B001 | |
| ENTERED BY | K. CRONENWETT | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | LOCATION NO. XL-6412 |
| PROJ. ENGR. | M. CASTILLO | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | |

P.E. STAMP BOX DATE

PERTEET
123 OHME GARDEN ROAD, SUITE B
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

CONSTRUCTION SIGNING PLAN

Plot 1

PLAN REF NO CS1

SHEET 62 OF 65 SHEETS

GENERAL NOTES:

(APPLICABLE TO ALL TRAFFIC CONTROL PLAN SHEETS)

1. ALL SIGNS ARE CLASS B UNLESS OTHERWISE NOTED
2. ALL SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND UNLESS OTHERWISE SPECIFIED.
3. CONTRACTOR SHALL PLACE "MOTORCYCLES USE EXTREME CAUTION" (W21-1701) CLASS B SIGNS IN ADVANCE OF ALL ABRUPT EDGES, GROOVED PAVEMENT, UNTREATED SURFACES, OR OTHER IRREGULAR PAVEMENT SURFACES. OTHER CLASS B WARNING SIGNS SUCH AS BUMP, ABRUPT PAVEMENT EDGE, GROOVED PAVEMENT, LOOSE GRAVEL, ETC. AS REQUIRED, SHALL BE PLACED SEQUENTIALLY WITH W21-1701 IN ACCORDANCE WITH THE WSDOT AMENDMENTS TO THE MUTCD.
4. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
5. ADDITIONAL PCMS BOARDS SHALL BE PLACED AT THE DISCRETION OF THE ENGINEER.
6. WORK ZONE SHALL BE LIMITED TO 1.5 MILES IN LENGTH UNLESS OTHERWISE APPROVED BY THE ENGINEER.
7. NO MORE THAN ONE TRAFFIC CONTROL SET UP WILL BE ALLOWED AT ANY ONE TIME, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

**BUFFER DATA**

**LONGITUDINAL BUFFER SPACE = B**

| SPEED (MPH) | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
|---|---|---|---|---|---|---|---|---|---|---|
| LENGTH (feet) | 155 | 200 | 250 | 305 | 360 | 425 | 495 | 570 | 645 | 730 |

**TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R**

| HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs. | | | HOST VEHICLE WEIGHT > 22,000 lbs. | | |
|---|---|---|---|---|---|
| < 45 MPH | 45-55 MPH | > 55 MPH | < 45 MPH | 45-55 MPH | > 55 MPH |
| 100' | 123' | 172' | 74' | 100' | 150' |

**PROTECTIVE VEHICLE (WORK VEHICLE) = R**

NO SPECIFIED DISTANCE REQUIRED

**SIGN SPACING = X (1)**

| | | |
|---|---|---|
| RURAL HIGHWAYS | 60 / 65 MPH | 800' ± |
| RURAL ROADS | 45 / 55 MPH | 500' ± |
| RURAL ROADS & URBAN ARTERIALS | 35 / 40 MPH | 350' ± |
| RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS | 25 / 30 MPH | 200' ± (2) |
| URBAN STREETS | 25 MPH OR LESS | 100' ± (2) |

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

**CHANNELIZATION DEVICE SPACING (FEET)**

| MPH | TAPER | TANGENT |
|---|---|---|
| 50/65 | 10 TO 20 | 80 |
| 35/45 | 10 TO 20 | 60 |
| 25/30 | 10 TO 20 | 40 |

**MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)**

| LANE WIDTH (feet) | Posted Speed (mph) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| 10 | 105 | 150 | 205 | 270 | 450 | 500 | 550 | - | - | - |
| 11 | 115 | 165 | 225 | 295 | 495 | 550 | 605 | 660 | - | - |
| 12 | 125 | 180 | 245 | 320 | 540 | 600 | 660 | 720 | 780 | 840 |

**MINIMUM SHOULDER TAPER LENGTH = L/3 (feet)**

| SHOULDER WIDTH (feet) | Posted Speed (mph) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
| 8' | 40 | 40 | 60 | 90 | 120 | 130 | 150 | 160 | 170 | 190 |
| 10' | 40 | 60 | 90 | 90 | 150 | 170 | 190 | 200 | 220 | 240 |

USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THAN 8'.

LEGEND:

- AFAD — AUTOMATED FLAGGER ASSISTANCE DEVICE
- TEMPORARY TRAFFIC CONTROL DEVICES
- TRAFFIC SAFETY DRUM
- TEMPORARY SIGN LOCATION
- PROTECTIVE VEHICLE W/ WARNING BEACON

| | |
|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_TC.dgn |
| TIME | 8:53:40 AM |
| DATE | 6/15/2023 |
| PLOTTED BY | Kevin.Cronenwett |
| DESIGNED BY | A. SCHULTZ |
| ENTERED BY | K. CRONENWETT |
| CHECKED BY | K. WISEMAN |
| PROJ. ENGR. | M. CASTILLO |
| REGIONAL ADM. | D. BIERSCHBACH |

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER 24B001

CONTRACT NO.

LOCATION NO. XL-6412

P.E. STAMP BOX — DATE

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

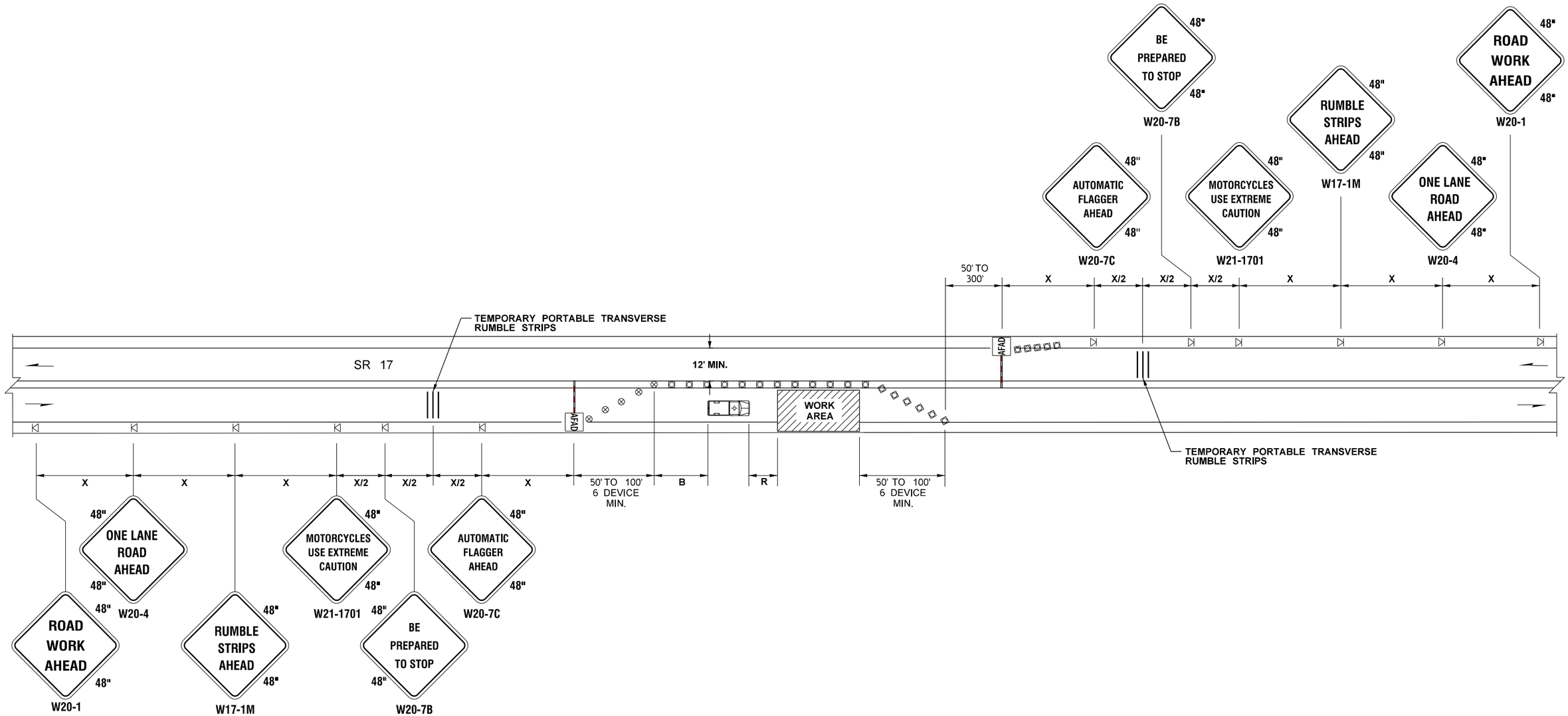
SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

TRAFFIC CONTROL REFERENCE

Plot 2

PLAN REF NO TR1

SHEET 63 OF 65 SHEETS




## ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS
## (FOR INSTALLATION OF SLOPE PROTECTION AND PAVEMENT REPAIR WORK)

SEE TRAFFIC CONTROL REFERENCE SHEET TR1
FOR LEGEND, TABLES, AND GENERAL NOTES

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_TC.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 8:53:40 AM | | | | 10 | WASH | |
| DATE | 6/15/2023 | | | | | | |
| PLOTTED BY | Kevin.Cronenwett | | | | JOB NUMBER | | |
| DESIGNED BY | A. SCHULTZ | | | | 24B001 | | |
| ENTERED BY | K. CRONENWETT | | | | | | |
| CHECKED BY | K. WISEMAN | | | | CONTRACT NO. | | LOCATION NO. |
| PROJ. ENGR. | M. CASTILLO | | | | | | XL-6412 |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

P.E. STAMP BOX DATE

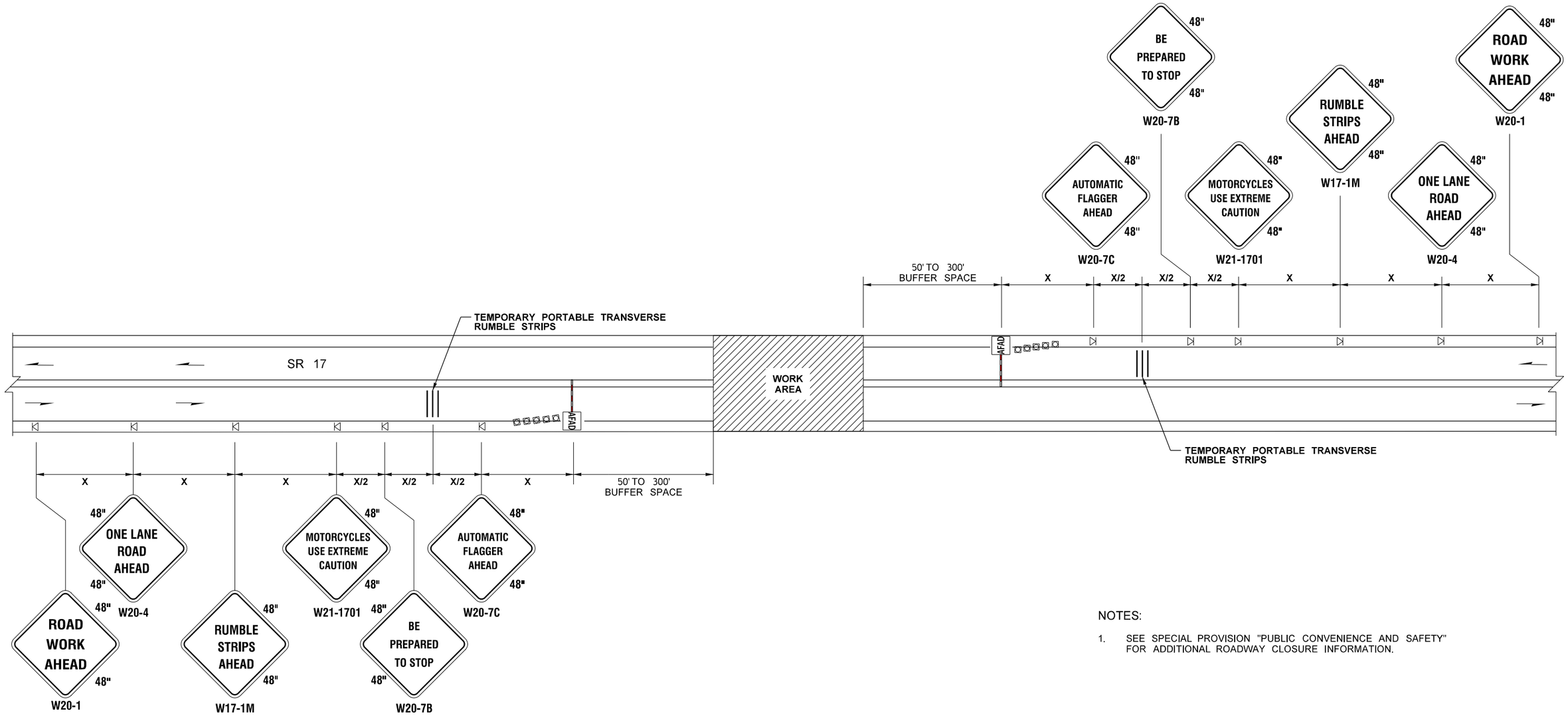
PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

TRAFFIC CONTROL PLAN

Plot 3
PLAN REF NO TC1
SHEET 64 OF 65 SHEETS




NOTES:

1. SEE SPECIAL PROVISION "PUBLIC CONVENIENCE AND SAFETY" FOR ADDITIONAL ROADWAY CLOSURE INFORMATION.

# TEMPORARY ROAD CLOSURE TRAFFIC CONTROL WITH FLAGGERS (FOR ROCK SLOPE SCALING, ERECTION OF NETTING, AND DEBRIS CLEANUP WORK)

SEE TRAFFIC CONTROL REFERENCE SHEET TR1
FOR LEGEND, TABLES, AND GENERAL NOTES

NOT TO SCALE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FILE NAME | X:\WSDOT\Projects\20170188 - NC WSDOT GEC\.0022 - AU - NCR Rock Slopes\CADD\02 - Plan Sheets\XL6412_PS_TC.dgn | | | | REGION NO. | STATE | FED.AID PROJ.NO. |
| TIME | 8:53:40 AM | | | | 10 | WASH | |
| DATE | 6/15/2023 | | | | JOB NUMBER | | |
| PLOTTED BY | Kevin.Cronenwett | | | | 24B001 | | |
| DESIGNED BY | A. SCHULTZ | | | | CONTRACT NO. | | LOCATION NO. |
| ENTERED BY | K. CRONENWETT | | | | | | XL-6412 |
| CHECKED BY | K. WISEMAN | | | | | | |
| PROJ. ENGR. | M. CASTILLO | | | | | | |
| REGIONAL ADM. | D. BIERSCHBACH | REVISION | DATE | BY | | | |

P.E. STAMP BOX DATE

PERTEET
123 OHME GARDEN ROAD, SUITE 8
WENATCHEE, WA 98801
800.615.9900

Washington State Department of Transportation

SR 17
SOAP LAKE TO LAKE LENORE CAVES
UNSTABLE SLOPES RE-ADVERTISEMENT

TRAFFIC CONTROL PLAN

Plot 4
PLAN REF NO
TC2
SHEET 65 OF 65 SHEETS