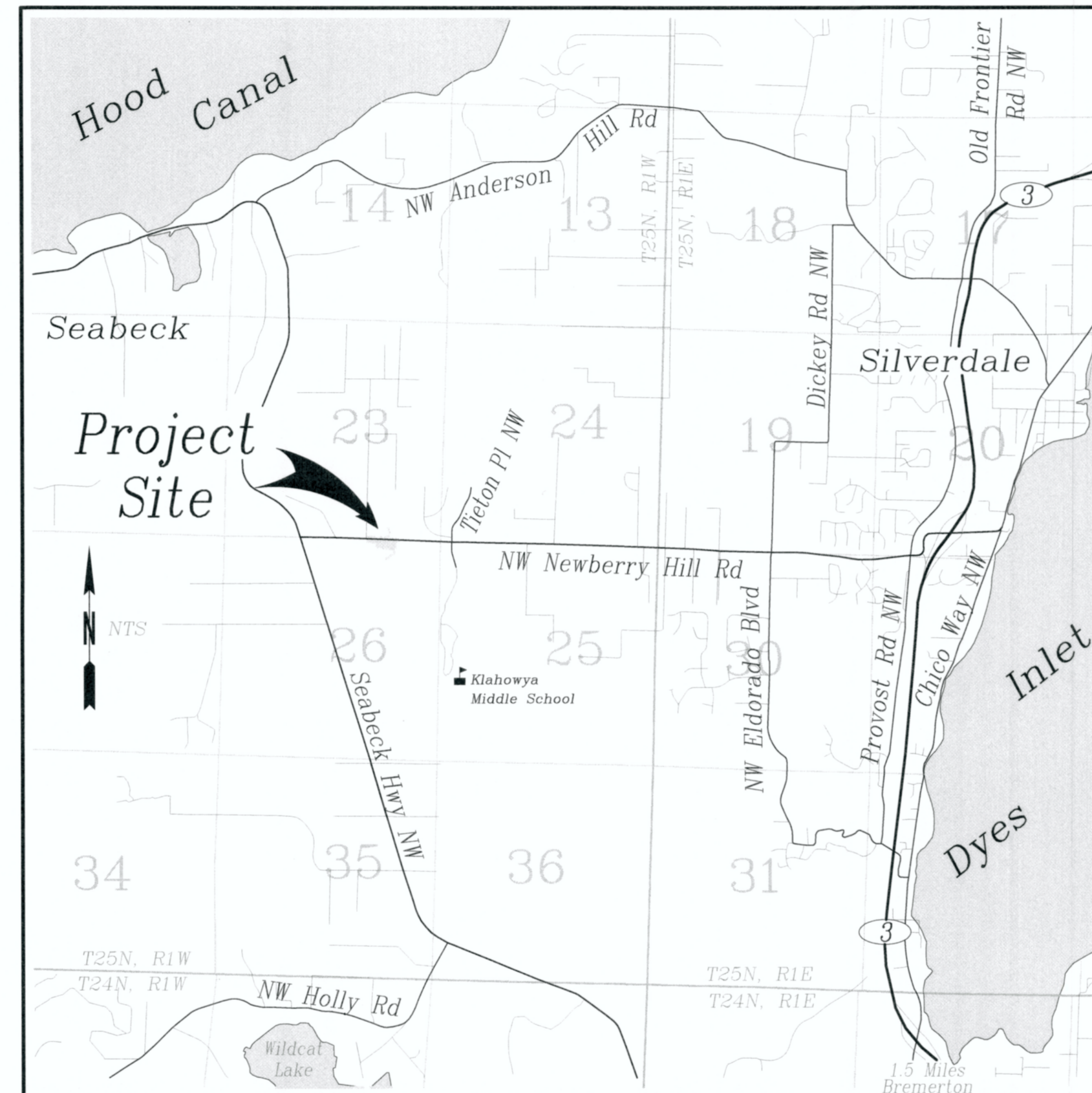


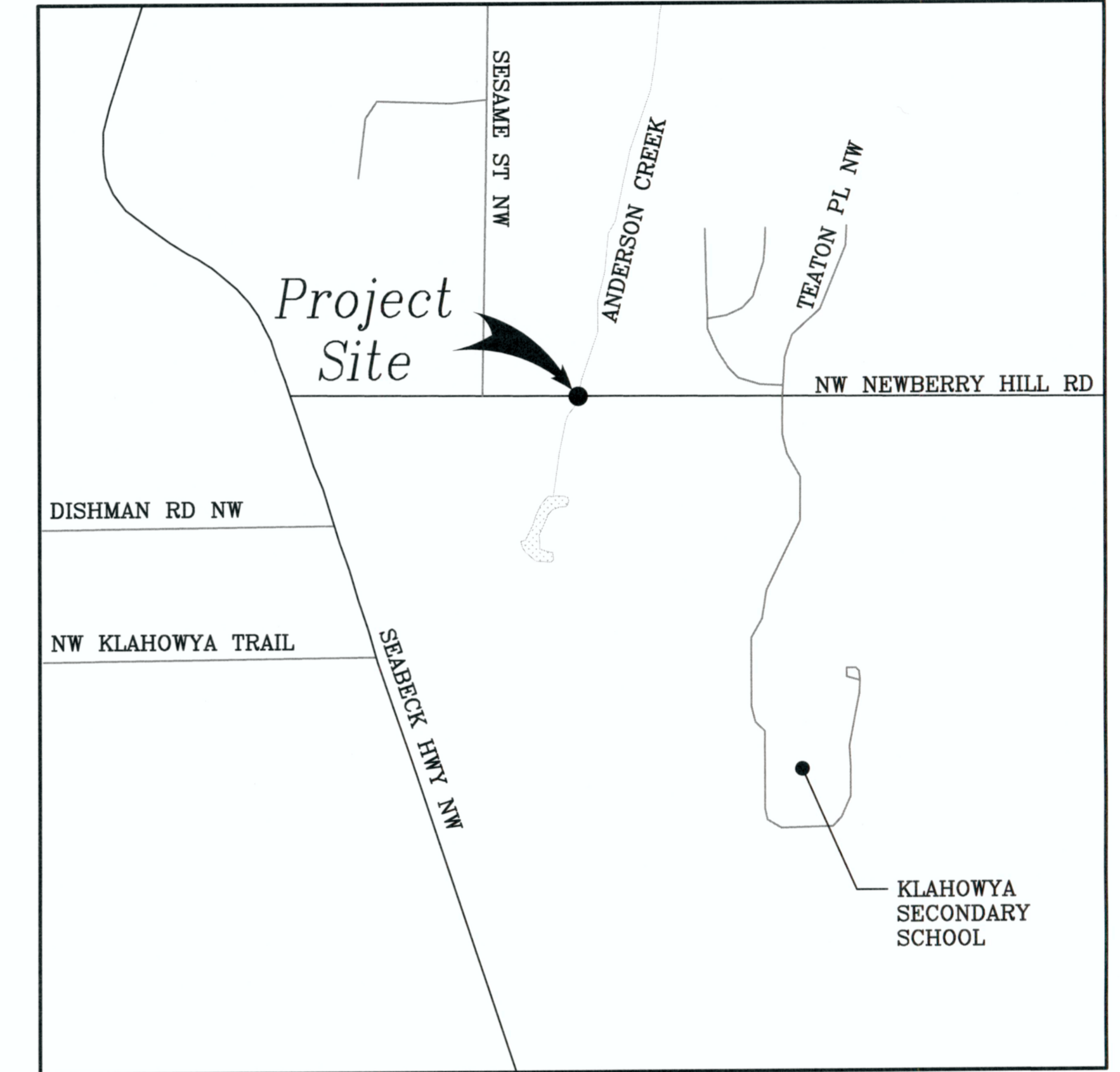
# COUNTY ROAD PROJECT No. 3684 NEWBERRY HILL ROAD – CULVERT

SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.  
FEDERAL AID #: PROTECT-18F2(002), CONTRACT TA7788

| SHEET # | SHEET DESCRIPTION                     |
|---------|---------------------------------------|
| 1       | COVER SHEET                           |
| 2       | NOTES, LEGEND, & ABBREVIATIONS        |
| 3       | SURVEY & ALIGNMENT CONTROL            |
| 4       | EXISTING CONDITIONS & DEMOLITION PLAN |
| 5       | TYPICAL ROADWAY SECTIONS              |
| 6       | ROADWAY PLAN & PROFILE                |
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| 8       | DRAINAGE & UTILITY PLAN               |
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| 21      | DETOUR SIGNAGE DETAILS 4              |
| 22      | DETOUR SIGNAGE DETAILS 5              |
| 23      | DETOUR SIGNAGE DETAILS 6              |



VICINITY MAP



PROJECT MAP



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SARGENT ENGINEERS, INC.

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12787 gateway drive south  
tukwila, washington 98168-3308  
phone: (206) 241-6000  
fax: (206) 439-2420  
www.nhcweb.com

BID SET

APPROVED FOR CONSTRUCTION:

11/3/23  
DATE

*Joseph P. Rutan*  
JOSEPH P. RUTAN, P.E., COUNTY ENGINEER

BOARD OF COMMISSIONERS:

CHARLOTTE GARRIDO  
KATHERINE WALTERS  
CHRISTINE ROLFES

DIRECTOR OF PUBLIC WORKS

ANDREW B. NELSON, P.E.



KITSAP COUNTY  
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NEWBERRY HILL ROAD – CULVERT

**COVER SHEET**

DATE  
11/3/2023

SHEET  
1  
OF  
23

**STANDARD ABBREVIATIONS**

|          |                                      |                         |                                   |
|----------|--------------------------------------|-------------------------|-----------------------------------|
| A.B.     | ANCHOR BOLT                          | N                       | NORTH                             |
| A.C.P.   | ASPHALT CONCRETE PAVING              | N.I.C.                  | NOT IN CONTRACT                   |
| ADS      | ADVANCED DRAINAGE SYSTEMS            | N.T.S.                  | NOT TO SCALE                      |
| ALT.     | ALTERNATE                            | NO.                     | NUMBER                            |
| APPROX.  | APPROXIMATELY                        | O.C.                    | ON CENTER                         |
| BOF      | BOTTOM OF FOOTING                    | O.D.                    | OUTSIDE DIAMETER                  |
| BOTT.    | BOTTOM                               | PAV.                    | PAVING                            |
| BVC      | BEGINNING OF VERTICAL CURVE          | PL.                     | PLATE                             |
| C.I.P.   | CAST-IN-PLACE                        | PLF                     | POUNDS PER LINEAL FOOT            |
| CMP      | CORRUGATED METAL PIPE                | PSF                     | POUNDS PER SQUARE FOOT            |
| C.M.U.   | CONCRETE MASONRY UNITS               | PSI                     | POUNDS PER SQUARE INCH            |
| CONC.    | CONCRETE                             | PT                      | POINT                             |
| CONT.    | CONTINUOUS                           | PVI                     | POINT OF VERTICAL INTERSECTION    |
| C.R.S.I. | CONCRETE REINFORCING STEEL INSTITUTE | R.                      | RADIUS OR RISER                   |
| CSBC     | CRUSHED SURFACING                    | RDWY                    | ROADWAY                           |
|          | BASE COURSE                          | Reinf.                  | REINFORCEMENT                     |
| CSTC     | CRUSHED SURFACING                    | ROW                     | RIGHT OF WAY                      |
|          | TOP COURSE                           | RT                      | RIGHT                             |
| DBL.     | DOUBLE                               | S                       | SOUTH                             |
| DIA.     | DIAMETER                             | SD MH                   | STANDARD MANHOLE                  |
| D.L.     | DEAD LOAD                            | SEW                     | STRUCTURAL EARTH WALL             |
| E        | EAST                                 | SIM.                    | SIMILAR                           |
| EA.      | EACH                                 | STA                     | STATION                           |
| EL       | ELEVATION                            | STD                     | STANDARD                          |
| EVC      | END OF VERTICAL CURVE                | T.O.C.                  | TOP OF CONCRETE OR TOP OF CULVERT |
| E.W.     | EACH WAY                             | UNO                     | UNLESS NOTED OTHERWISE            |
| F.O.C.   | FACE OF CONCRETE                     | VC                      | VERTICAL CURVE                    |
| F.O.W.   | FACE OF WALL                         | VERT.                   | VERTICAL                          |
| FT.      | FOOT OR FEET                         | W                       | WEST                              |
| HMA      | HOT MIX ASPHALT                      | w/                      | WITH                              |
| HORIZ.   | HORIZONTAL                           | W.W.F.                  | WELDED WIRE FABRIC                |
| I.D.     | INSIDE DIAMETER                      |                         |                                   |
| I.E.     | INLET ELEVATION                      |                         |                                   |
| K.       | KIPS                                 | <u>STANDARD SYMBOLS</u> |                                   |
| Lbs.     | POUNDS                               | @                       | AT                                |
| LF       | LINEAR FOOT (FEET)                   | ⊕                       | CENTERLINE                        |
| LL       | LIVE LOAD                            | ∅                       | DIAMETER                          |
| LP       | LOW POINT                            | #                       | NUMBER                            |
| LT       | LEFT                                 |                         |                                   |
| MANUF.   | MANUFACTURER                         |                         |                                   |
| MAX.     | MAXIMUM                              |                         |                                   |
| MIN.     | MINIMUM                              |                         |                                   |
| MISC.    | MISCELLANEOUS                        |                         |                                   |
| MSE      | MECHANICALLY STABILIZED EARTH        |                         |                                   |

**LEGEND**

|  |                                |  |   |
|--|--------------------------------|--|---|
|  | SECTION LINE                   |  | SIGN POST (AS NOTED)                                |
|  | PROPERTY LINE                  |  | UTILITY POLE  |
|  | EXISTING RIGHT-OF-WAY          |  | LUMINAIRE   |
|  | EXISTING CONSTRUCTION EASEMENT |  | UTILITY POLE WITH ANCHOR                            |
|  | ROADWAY CENTERLINE             |  | UTILITY POLE WITH LUMINAIRE                         |
|  | EDGE OF PAVEMENT               |  | WATER VALVE   |
|  | EDGE OF GRAVEL ROAD OR DRIVE   |  | SEWER VALVE   |
|  | FENCE LINE                     |  | POWER VAULTS, POWER TRANSFER AND POWER JUNCTION BOX |
|  | OVERHEAD UTILITY LINE          |  | TELEPHONE OR CABLE TV BOX                           |
|  | BURIED CONDUIT                 |  | MAILBOX   |
|  | INDEX CONTOUR LINE             |  | CULVERT OR STORM DRAIN                              |
|  | INTERMEDIATE CONTOUR LINE      |  | GATE AND GATE POSTS                                 |
|  | ORDINARY HIGH WATER MARK       |  | CONCRETE PAD  |
|  |                                |  | CATCH BASIN   |
|  |                                |  | TREES (AS NOTED)                                    |
|  |                                |  | GEOTECHNICAL BORING (AS NOTED)                      |

**GENERAL NOTES**

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2023 EDITION.
2. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MEETING THE CONDITIONS OF ALL PROJECT PERMITS, AND LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
3. THE CONTRACTOR SHALL LIMIT THE AREA OF CLEARING TO ONLY THAT WHICH IS NECESSARY TO COMPLETE THE REQUIRED WORK. ALL DISTURBED AREAS SHALL BE GRADED TO MATCH THE EXISTING GROUND AND PROMPTLY HYROSEEDDED.
4. RECONSTRUCT ROADWAY EMBANKMENT SLOPES TO 2:1 MAX., UNLESS OTHERWISE NOTED. SLOPES SHALL BE COMPACTED AS STRUCTURAL FILL TO A MINIMUM 95% OF MAXIMUM DRY DENSITY.
5. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES CONTAINED WITHIN THE KITSAP COUNTY STORMWATER MANAGEMENT MANUAL.

**BID SET**

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| DESIGNED: | CBK  |
| DRAWN:    | CBK  |
| CHECKED:  | JSS  |
| CRP No.   | 3684 |



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NEWBERRY HILL ROAD – CULVERT

**NOTES, LEGEND, & ABBREVIATIONS**

KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

|       |           |
|-------|-----------|
| DATE  | 11/3/2023 |
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**SURVEY NOTES**

BASE MAP PREPARED BY KITSAP COUNTY PUBLIC WORKS SURVEY DEPARTMENT. SUPPLEMENTAL DATA COLLECTED JULY 2022.

HORIZONTAL DATUM: NAD83(1991), WASHINGTON PLANE COORDINATE SYSTEM (NORTH ZONE).

VERTICAL DATUM: NGVD 29, BASED ON NOAA POINT "Y-254 RESET 1984" SILVERDALE WAY AT ENTRY TO SILVERALE MEDICAL CENTER, WITH A PUBLISHED ELEVATION OF 44.098.

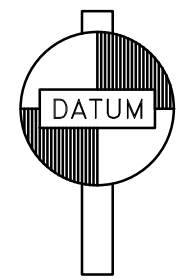
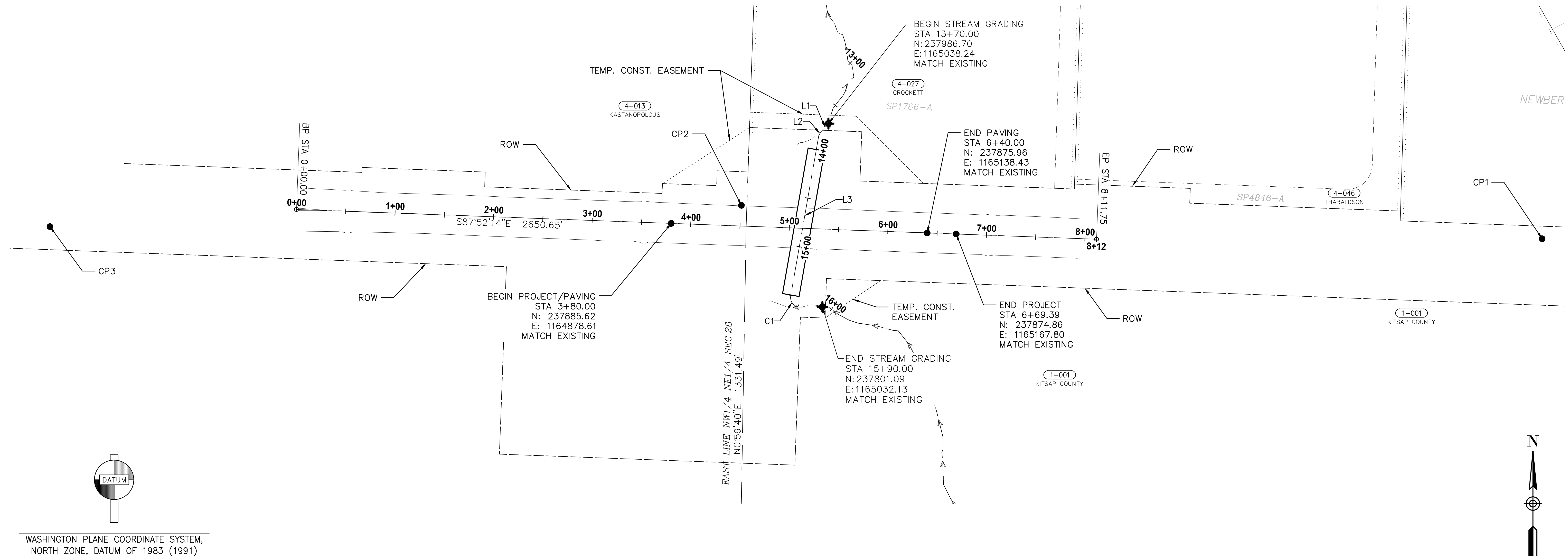
CONTOUR INTERVAL IS TWO- FEET AND ARE COMPUTER GENERATED FROM GROUND FIELD TOPOGRAPHY GATHERED FOR THIS SURVEY UTILIZING ELECTRONIC DATA COLLECTION.

HORIZONTAL COORDINATES LISTED ARE US SURVEY FEET, GRID.

RIGHT OF WAY, EASEMENT, AND PARCEL LINES ESTABLISHED BY KITSAP COUNTY PUBLIC WORKS SURVEY DEPARTMENT. RIGHT OF WAY LINES SHOWN PER "RIGHT OF WAY PLAN" FILED IN THE OFFICE OF THE COUNTY ROAD ENGINEER.

| STREAM GRADING ALIGNMENT |        |        |                      |              |           |            |
|--------------------------|--------|--------|----------------------|--------------|-----------|------------|
| NUMBER                   | RADIUS | LENGTH | LINE/CHORD DIRECTION | STATION      | NORTHING  | EASTING    |
| L1                       |        | 11.69  | S42° 03' 29.55"W     | STA 13+69.34 | 237987.20 | 1165038.68 |
| L2                       |        | 4.47   | S31° 52' 21.28"W     | STA 13+81.02 | 237978.52 | 1165030.86 |
| L3                       |        | 165.06 | S9° 57' 43.35"W      | STA 13+85.49 | 237974.72 | 1165028.50 |
| C1                       | 9.56   | 16.73  | S40° 12' 17.30"E     | STA 15+50.55 | 237812.15 | 1164999.94 |

| CONTROL AND FOUND MONUMENTS |           |            |           |               |
|-----------------------------|-----------|------------|-----------|---------------|
| PTNO                        | NORTHING  | EASTING    | ELEVATION | DESCRIPTION   |
| CP1                         | 237870.17 | 1165761.87 | 519.83    | NAIL & WASHER |
| CP2                         | 237903.94 | 1164949.98 | 488.42    | NAIL & WASHER |
| CP3                         | 237882.42 | 1164248.88 | 518.54    | NAIL & WASHER |



WASHINGTON PLANE COORDINATE SYSTEM,  
NORTH ZONE, DATUM OF 1983 (1991)



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NEWBERRY HILL ROAD - CULVERT

**SURVEY & ALIGNMENT CONTROL**

KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

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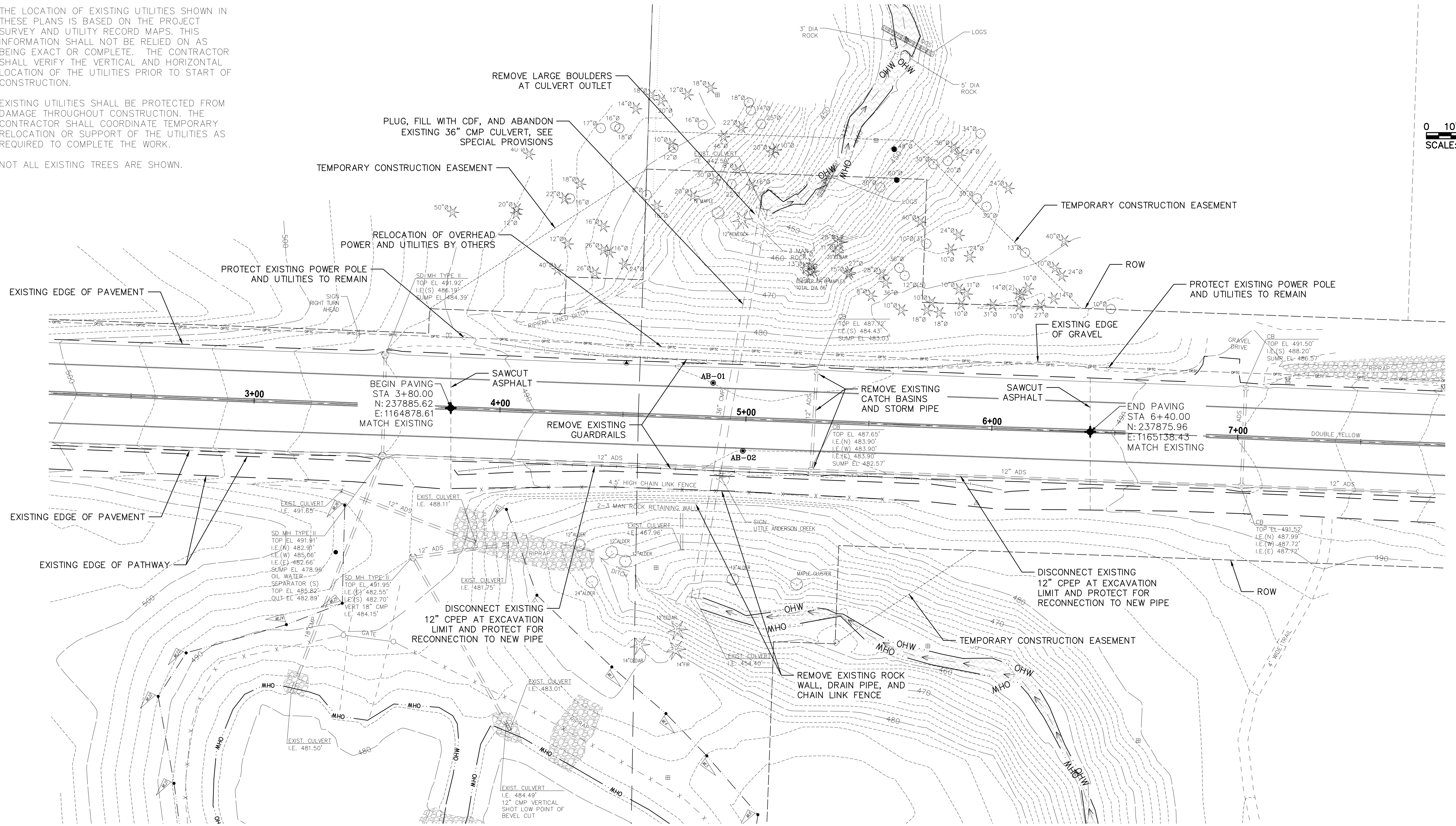
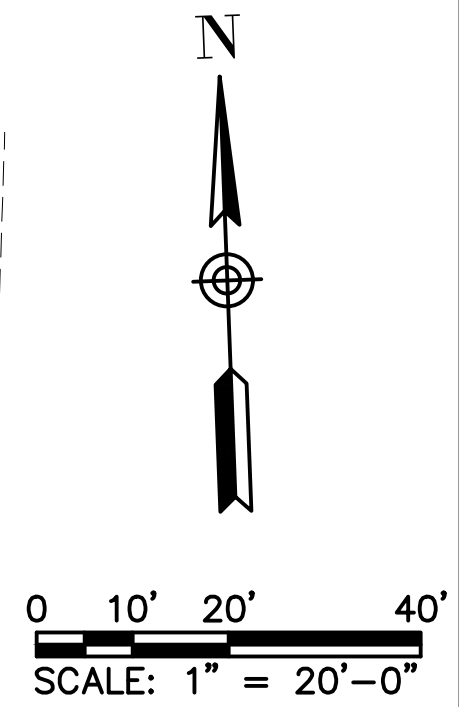
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23

**GENERAL NOTES**

THE LOCATION OF EXISTING UTILITIES SHOWN IN THESE PLANS IS BASED ON THE PROJECT SURVEY AND UTILITY RECORD MAPS. THIS INFORMATION SHALL NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF THE UTILITIES PRIOR TO START OF CONSTRUCTION.

EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE TEMPORARY RELOCATION OR SUPPORT OF THE UTILITIES AS REQUIRED TO COMPLETE THE WORK.

NOT ALL EXISTING TREES ARE SHOWN.



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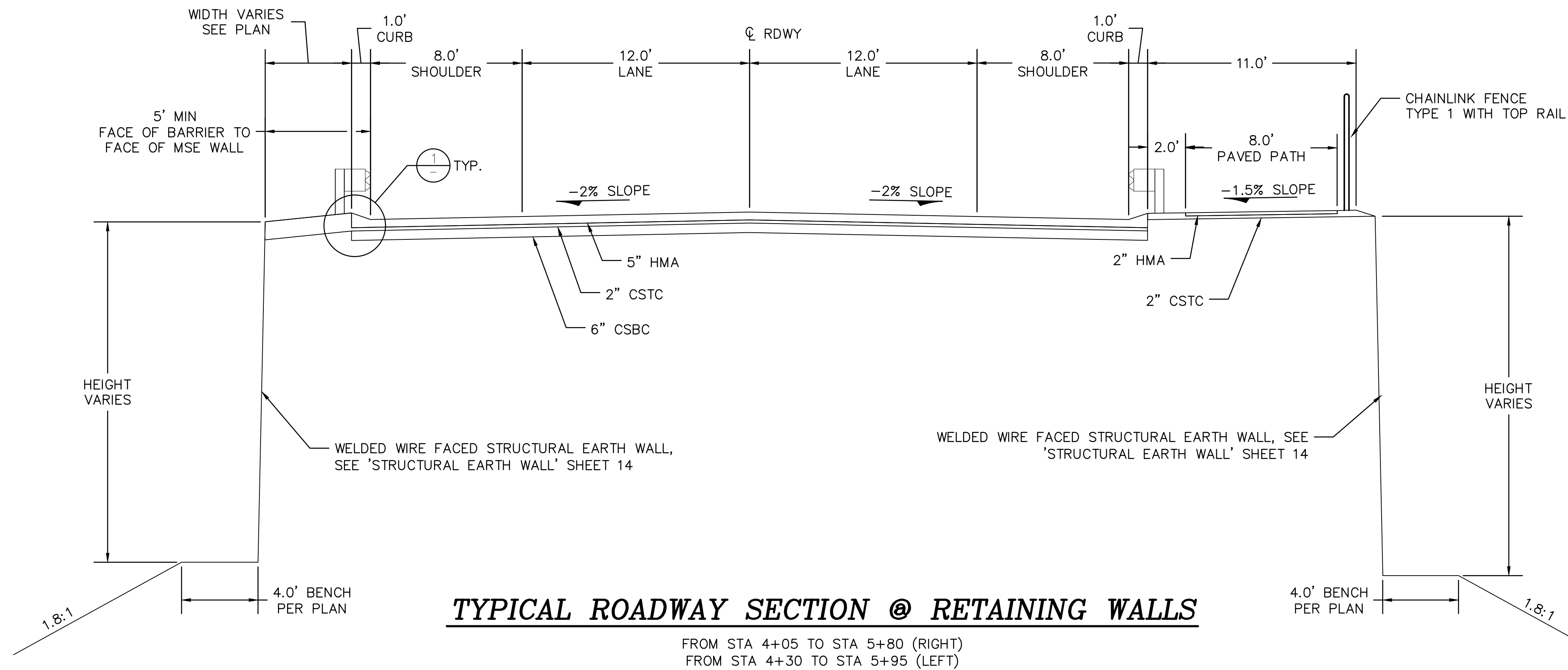
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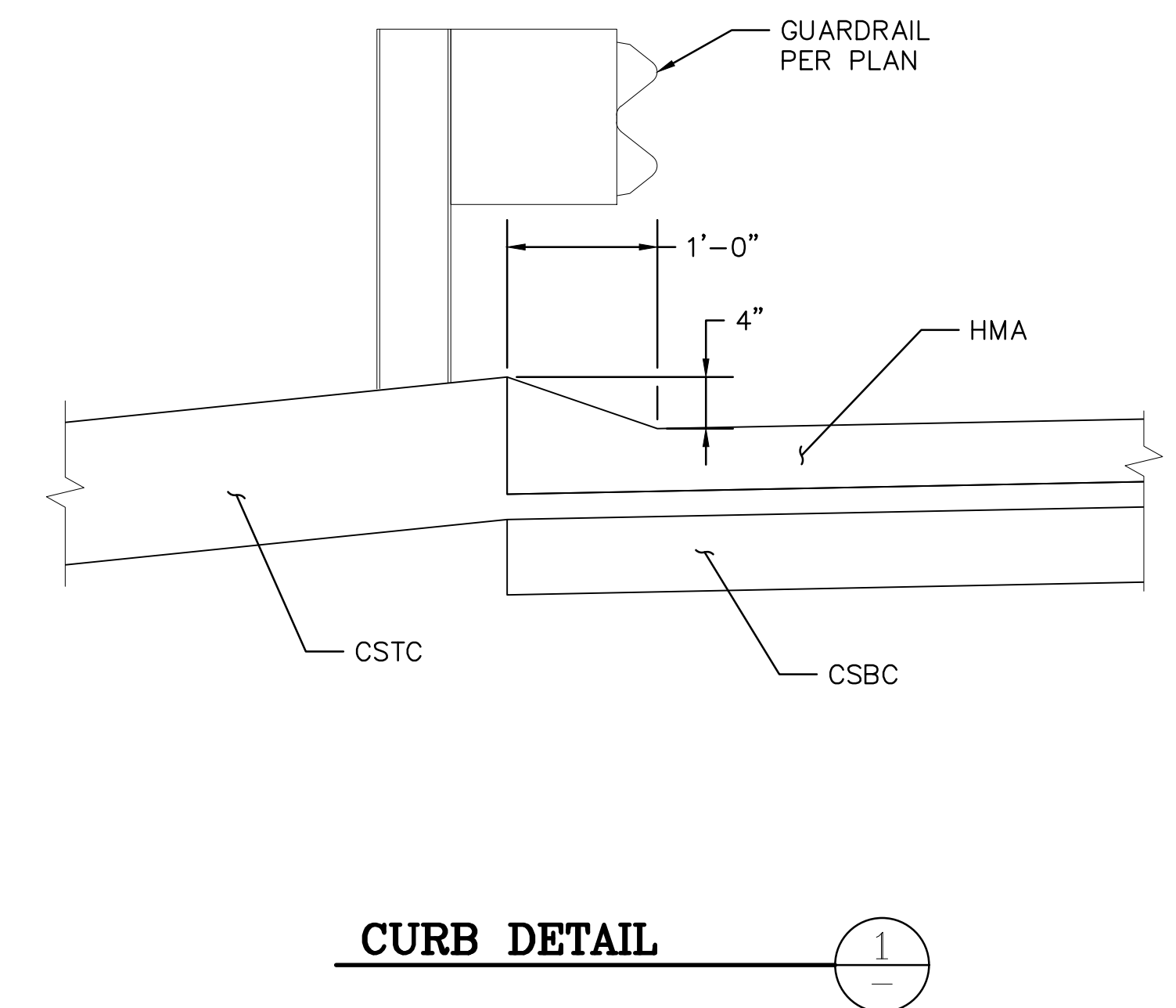
**NEWBERRY HILL ROAD - CULVERT**  
**EXISTING CONDITIONS**  
**& DEMOLITION PLAN**  
KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

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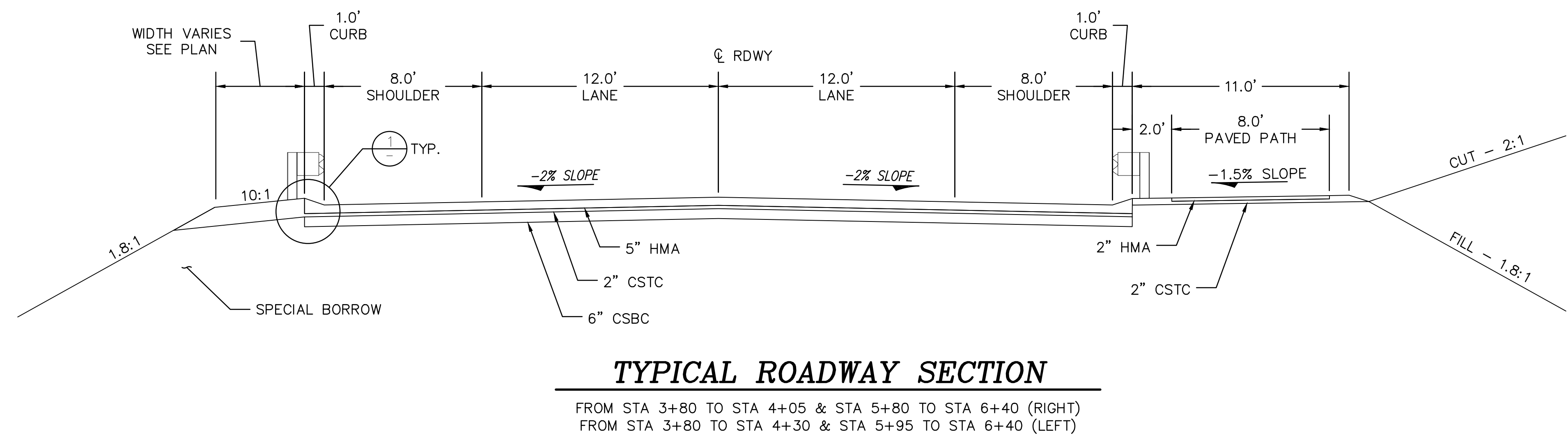


**TYPICAL ROADWAY SECTION @ RETAINING WALLS**

FROM STA 4+05 TO STA 5+80 (RIGHT)  
FROM STA 4+30 TO STA 5+95 (LEFT)

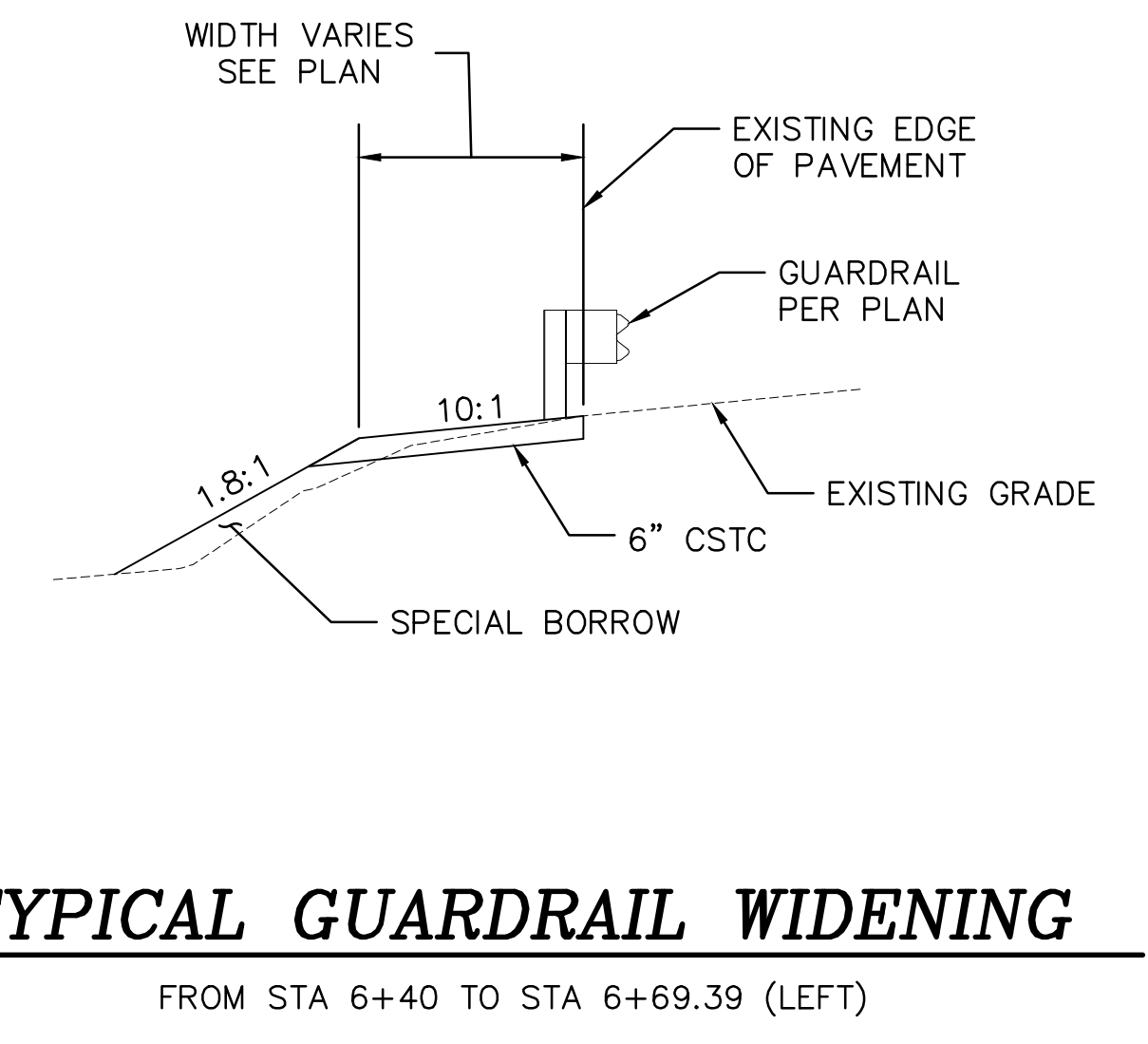


**CURB DETAIL**



**TYPICAL ROADWAY SECTION**

FROM STA 3+80 TO STA 4+05 & STA 5+80 TO STA 6+40 (RIGHT)  
FROM STA 3+80 TO STA 4+30 & STA 5+95 TO STA 6+40 (LEFT)



**TYPICAL GUARDRAIL WIDENING**

FROM STA 6+40 TO STA 6+69.39 (LEFT)

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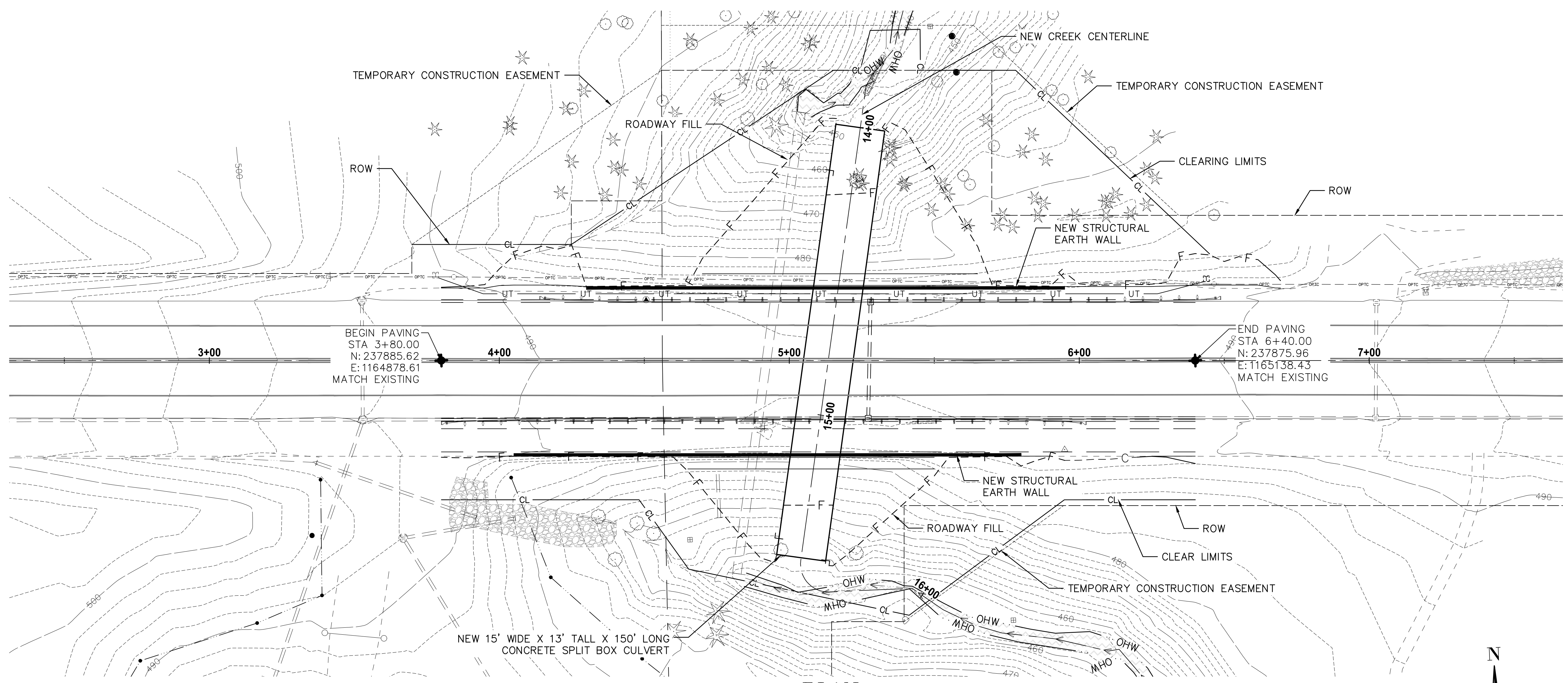
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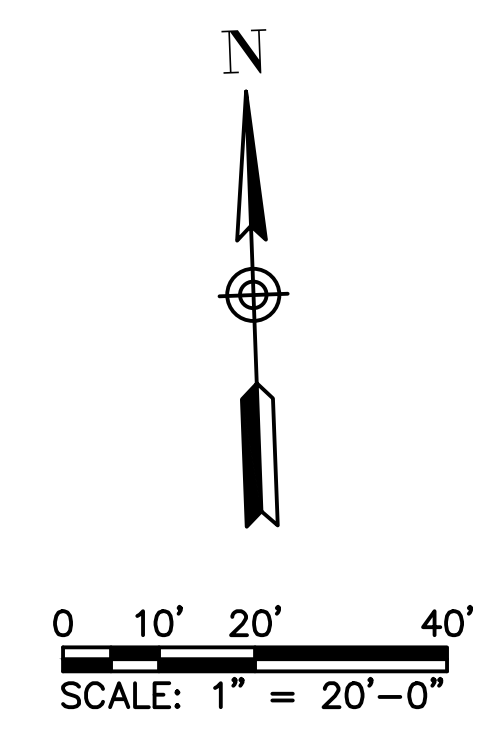
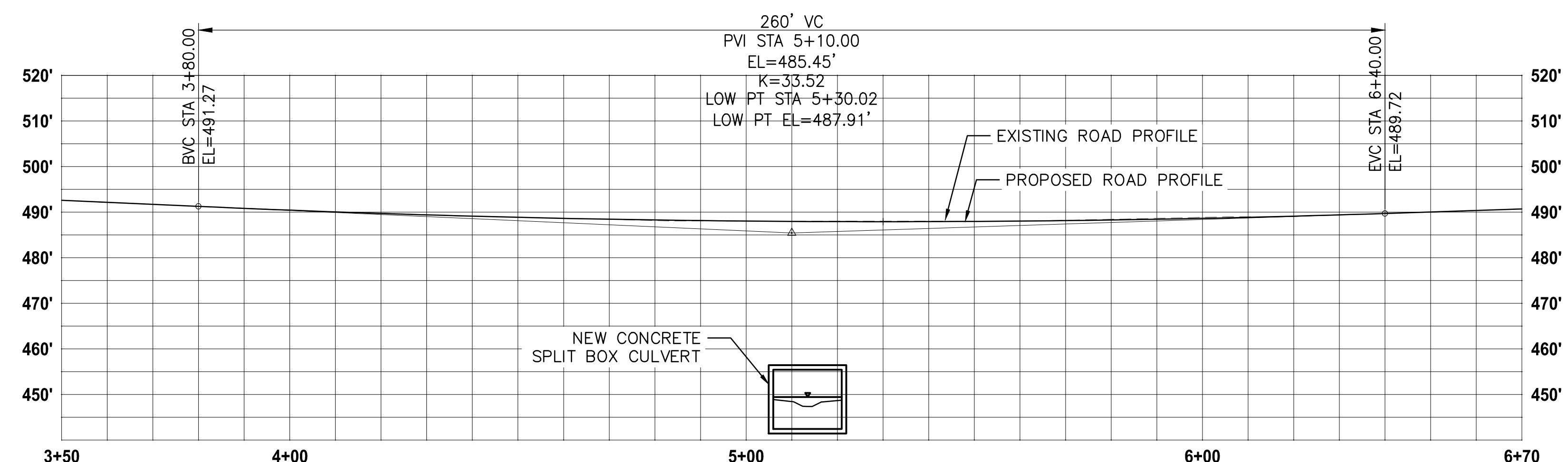
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NEWBERRY HILL ROAD - CULVERT  
**TYPICAL ROADWAY SECTIONS**  
KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

|       |           |
|-------|-----------|
| DATE  | 11/3/2023 |
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NOTE: ROADWAY FILL CATCH LINES SHOWN ASSUME OPEN EXCAVATION WITH 1.5:1 SLOPES FOR CULVERT STRUCTURE INSTALLATION. CATCH LINE LOCATION WILL VARY DEPENDING ON THE CONTRACTOR'S EXCAVATION PLAN.



**PLAN**

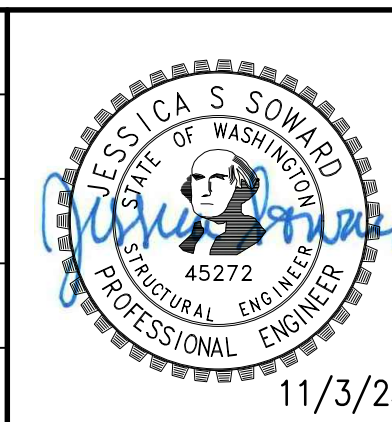
**PROFILE**

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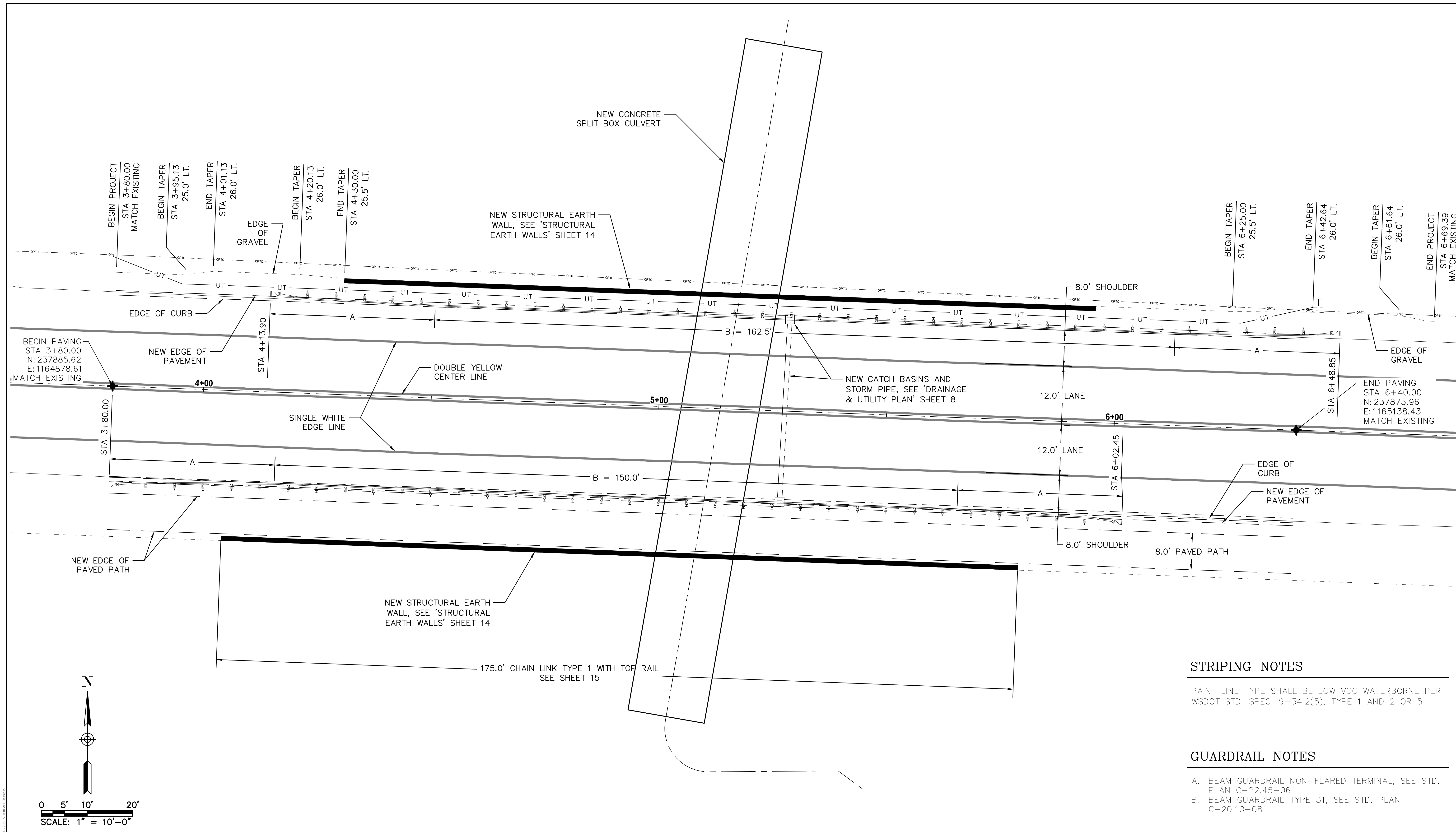
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NEWBERRY HILL ROAD - CULVERT  
**ROADWAY PLAN & PROFILE**  
KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

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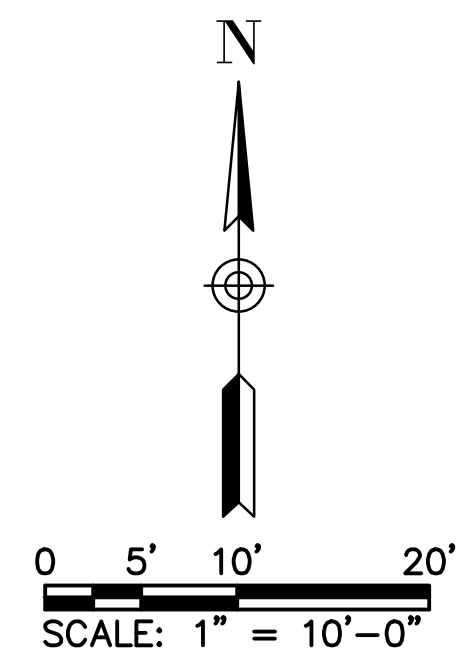


**STRIPING NOTES**

PAINT LINE TYPE SHALL BE LOW VOC WATERBORNE PER WSDOT STD. SPEC. 9-34.2(5), TYPE 1 AND 2 OR 5

**GUARDRAIL NOTES**

A. BEAM GUARDRAIL NON-FLARED TERMINAL, SEE STD. PLAN C-22.45-06  
 B. BEAM GUARDRAIL TYPE 31, SEE STD. PLAN C-20.10-08

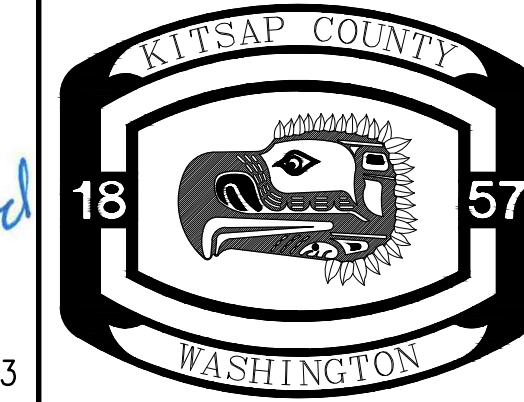
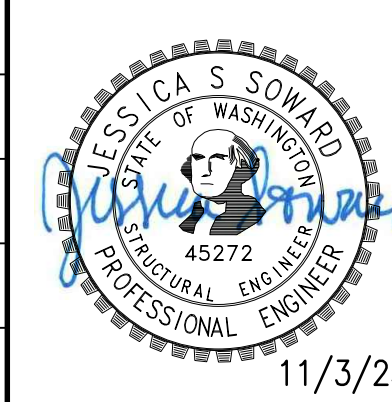


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NEWBERRY HILL ROAD - CULVERT

**ROADWAY PLAN 2**

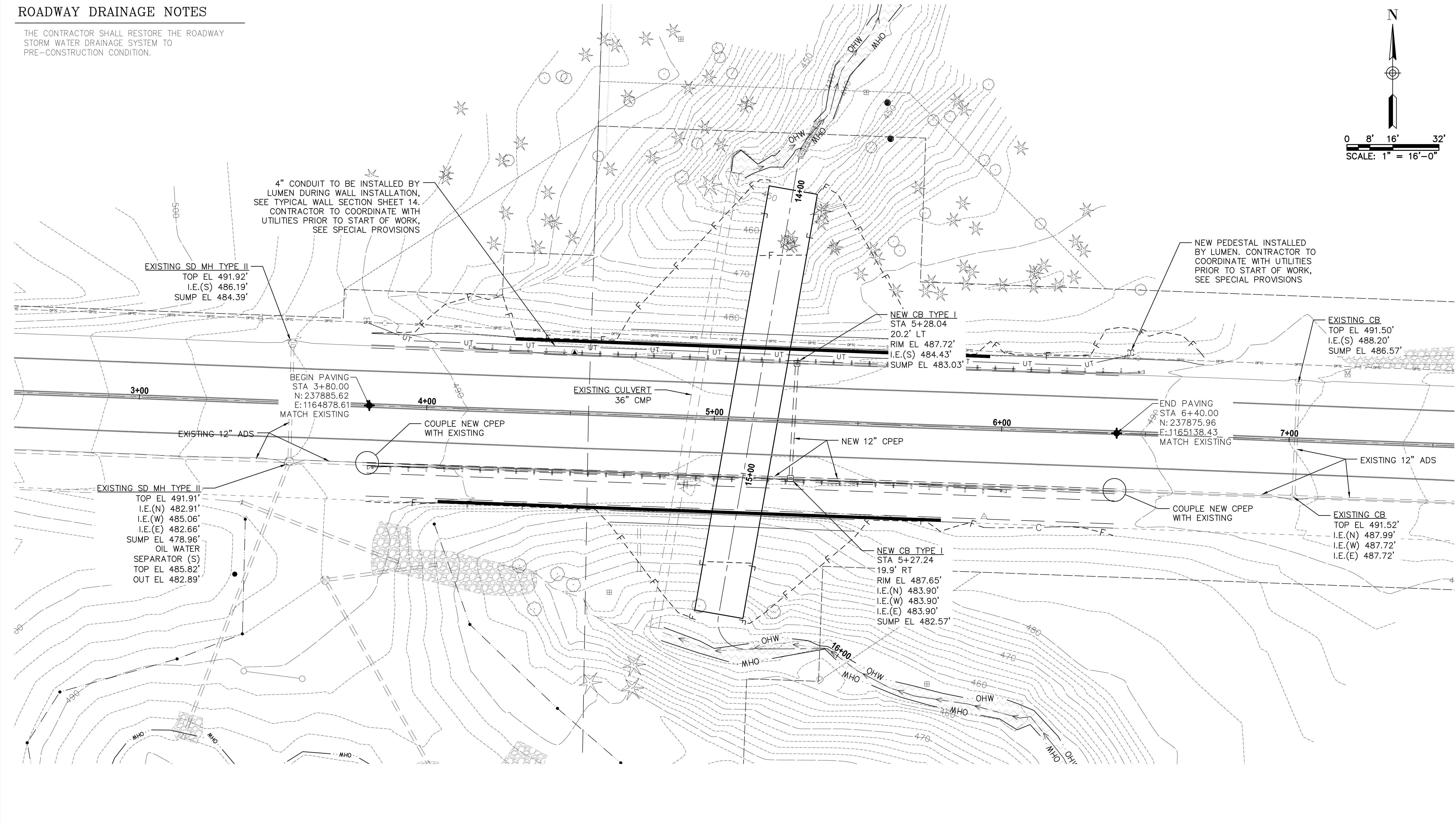
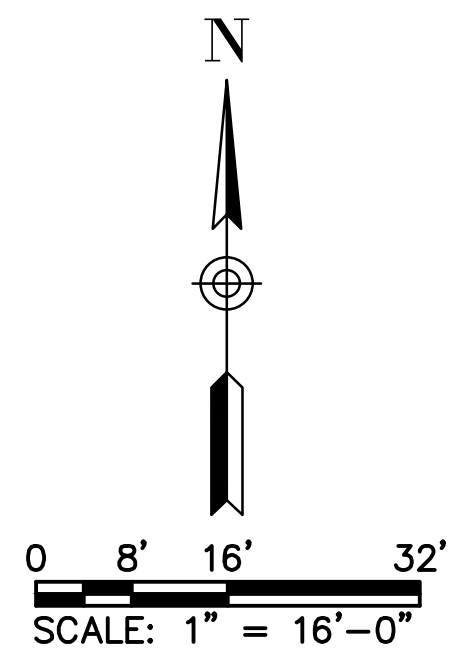
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DATE  
 11/3/2023

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 7  
 OF  
 23

**ROADWAY DRAINAGE NOTES**

THE CONTRACTOR SHALL RESTORE THE ROADWAY STORM WATER DRAINAGE SYSTEM TO PRE-CONSTRUCTION CONDITION.



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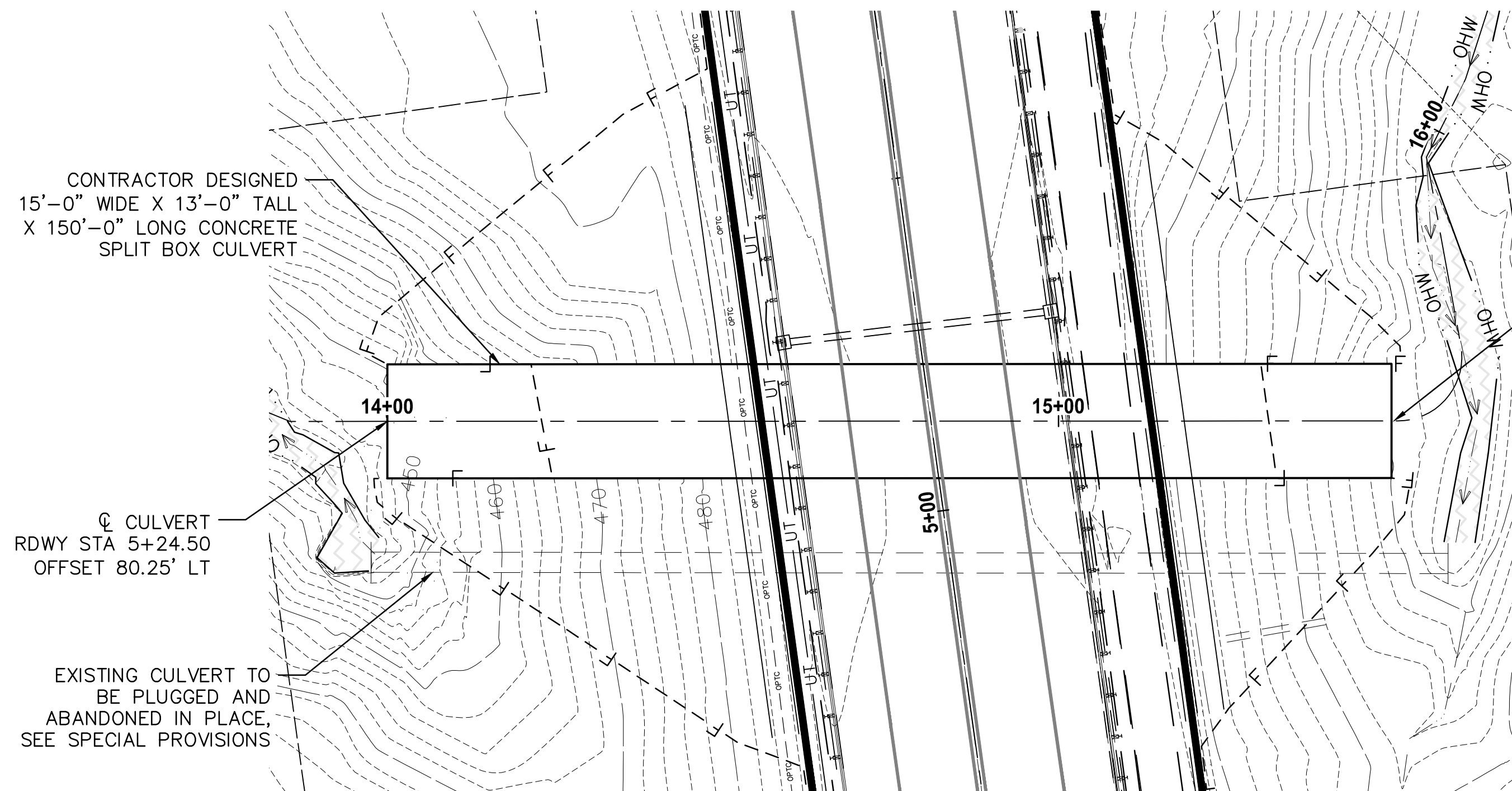
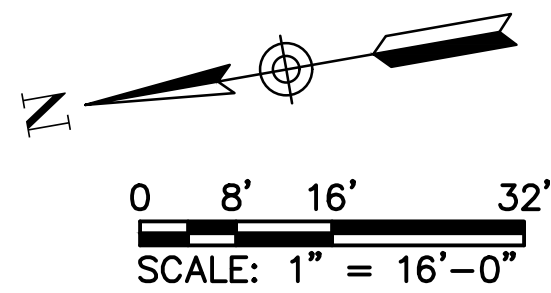


**KITSAP COUNTY**  
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PORT ORCHARD, WA 98366  
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**NEWBERRY HILL ROAD - CULVERT**  
**DRAINAGE & UTILITY PLAN**  
KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

DATE  
11/3/2023  
SHEET  
8  
OF  
23





NOTE: ROADWAY FILL CATCH LINES SHOWN ASSUME OPEN EXCAVATION WITH 1.5:1 SLOPES FOR CULVERT STRUCTURE INSTALLATION. CATCH LINE LOCATION WILL VARY DEPENDING ON THE CONTRACTOR'S EXCAVATION PLAN.

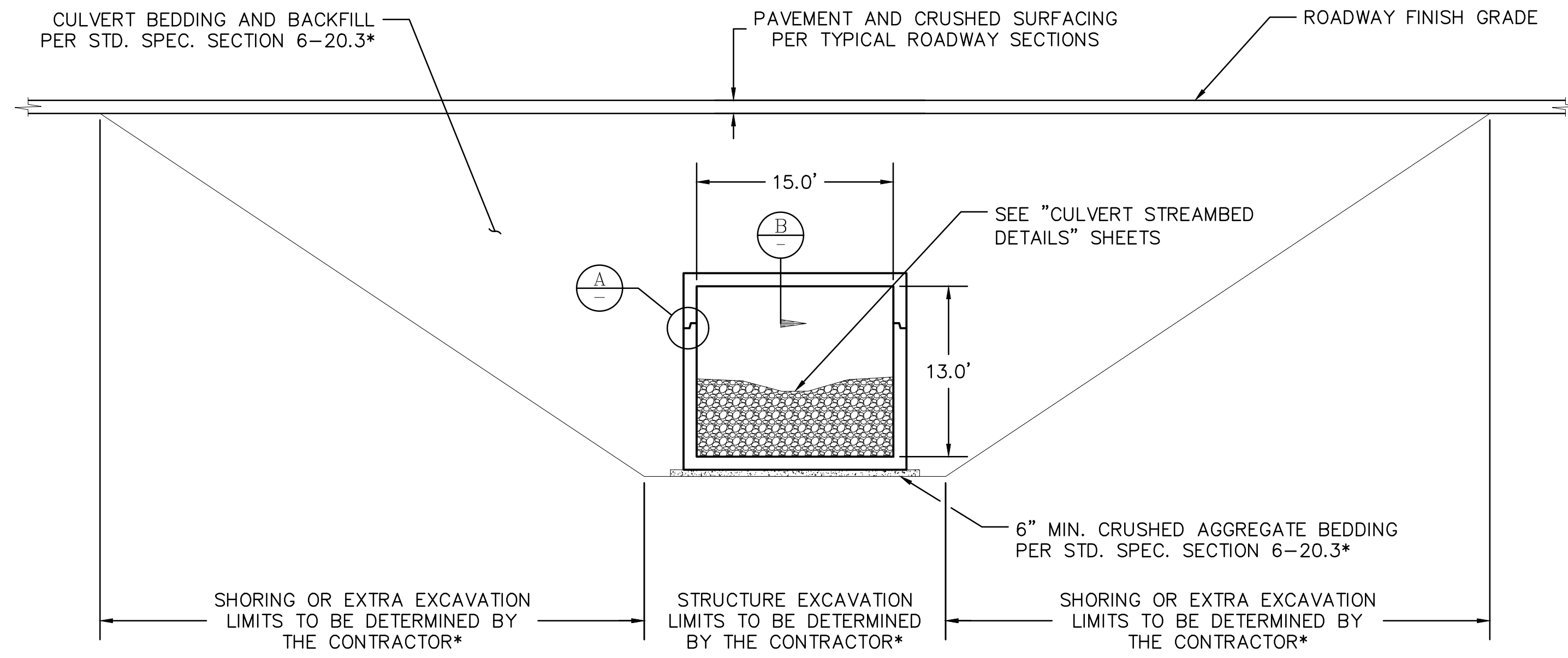
**CULVERT PLAN**

| BURIED STRUCTURE QUANTITIES <sup>1</sup> |          |
|--|----------|
| ITEM DESCRIPTION                         | QUANTITY |
| STRUCTURE EXCAVATION                     | 5025     |
| EXTRA EXCAVATION <sup>2</sup>            | 10600    |
| GRAVEL BACKFILL <sup>2</sup>             | 8215     |

1. QUANTITIES ARE APPROXIMATE AND INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY.  
 2. EXTRA EXCAVATION AND GRAVEL BACKFILL QUANTITIES ASSUME OPEN EXCAVATION WITH 1.5:1 SLOPES, QUANTITY WILL VARY BASED ON CONTRACTOR'S EXCAVATION PLAN. GRAVEL BACKFILL FOR STRUCTURAL EARTH WALLS TO BE INCIDENTAL TO STRUCTURAL EARTH WALL ITEM.

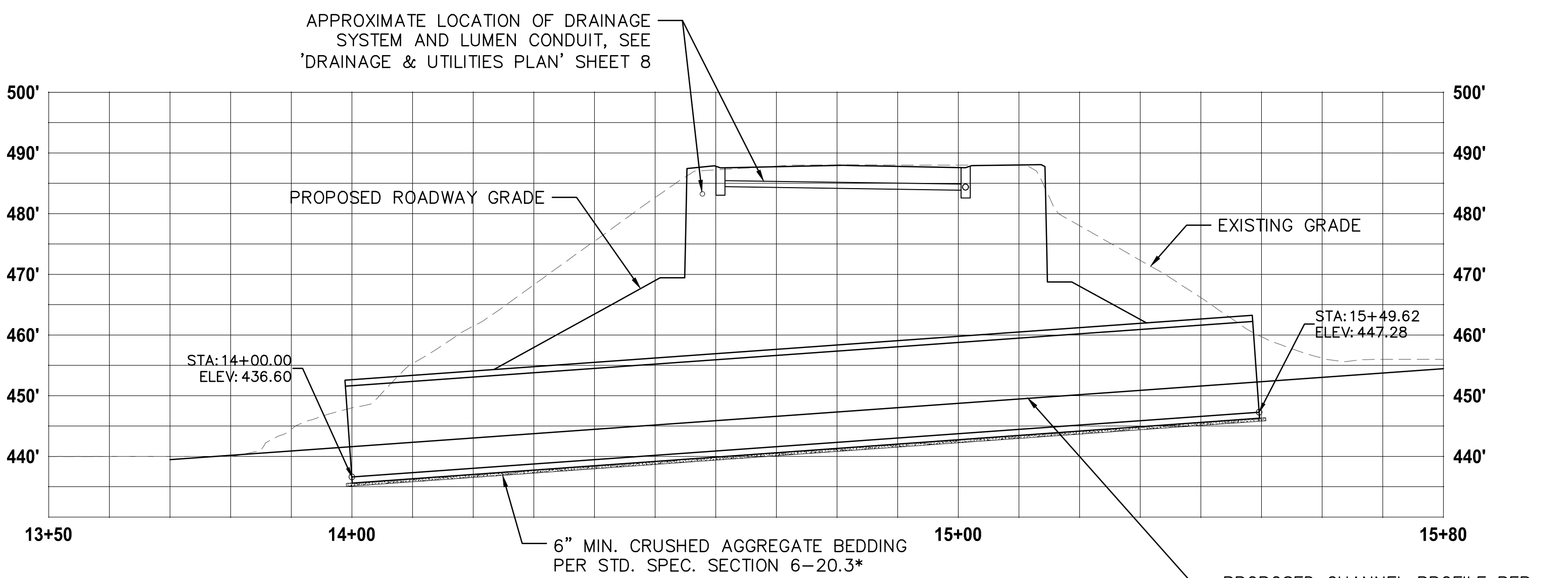
**CULVERT GENERAL NOTES**

THE CONTRACTOR SHALL PROVIDE THE COMPLETE STRUCTURAL DESIGN OF THE CULVERT. THE STRUCTURAL DESIGN SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, LATEST EDITION.

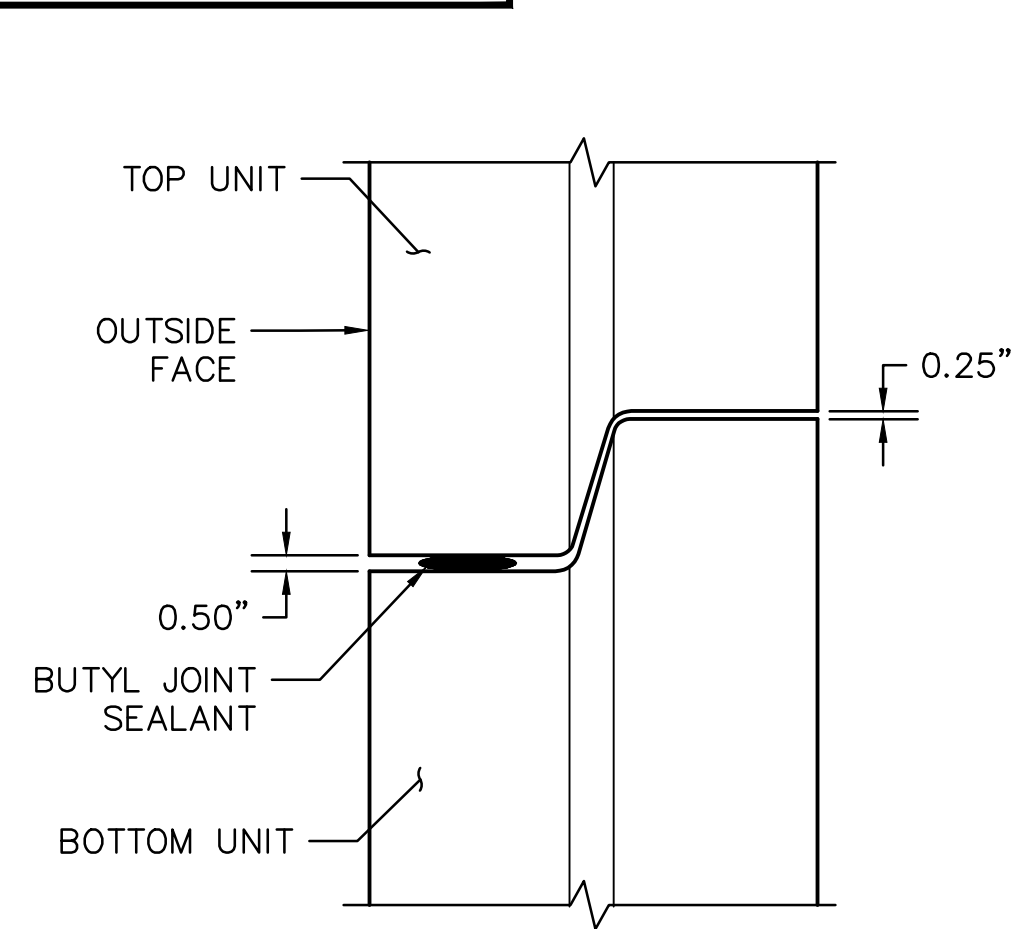


**TYPICAL CULVERT SECTION**

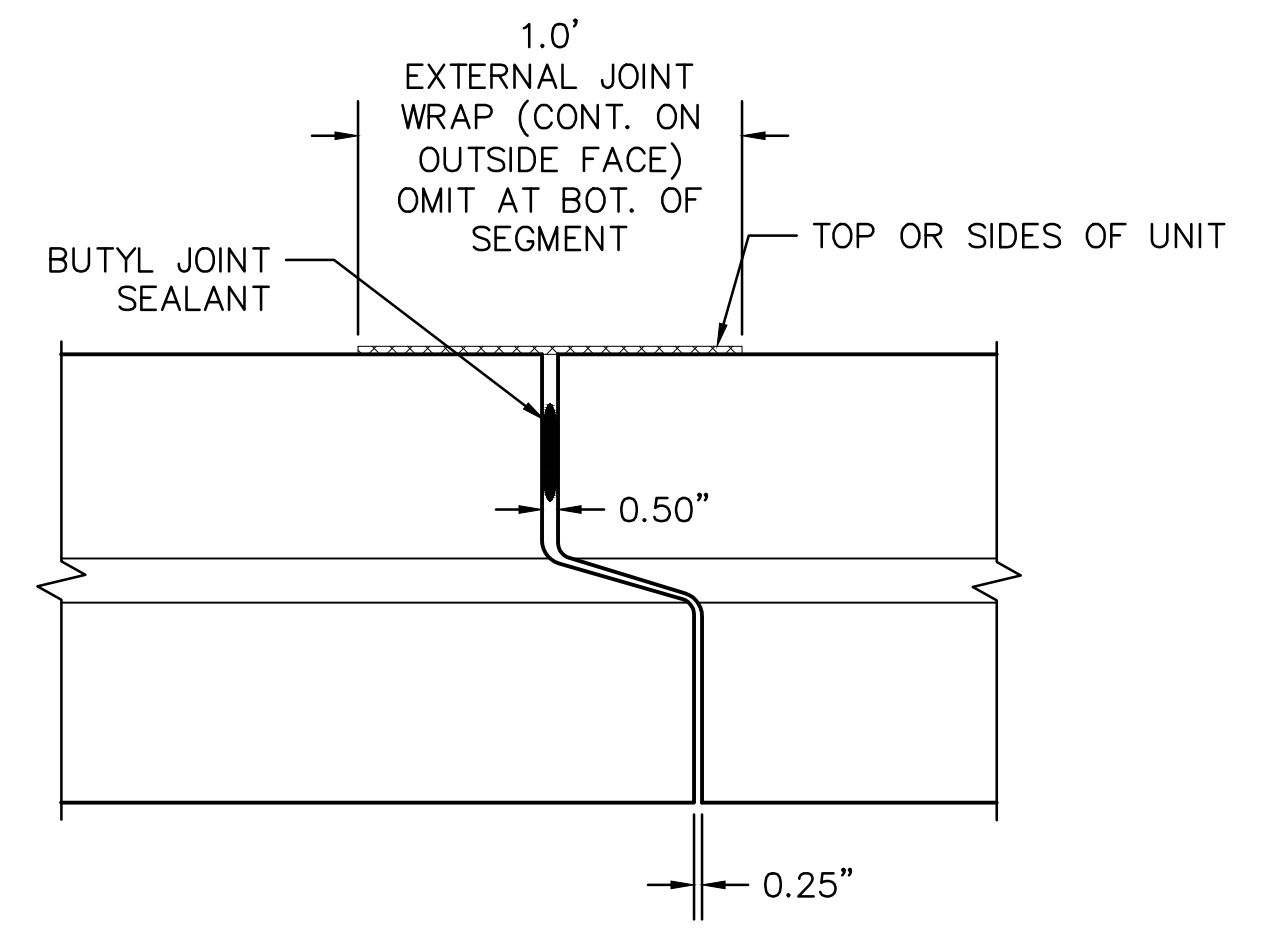
\* CULVERT EXCAVATION, SHORING OR EXTRA EXCAVATION, DEWATERING, BEDDING, AND BACKFILL TO UNDERSIDE OF ROADWAY SURFACING TO BE INCLUDED IN THE LUMP SUM COST FOR "CONTRACTOR DESIGNED BURIED STRUCTURE"



**CULVERT PROFILE**



JOINT DETAIL A



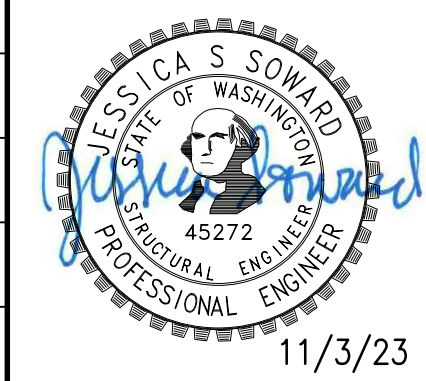
JOINT DETAIL BETWEEN UNITS B

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**SARGENT**  
 SARGENT ENGINEERS, INC.  
 320 Ronlee Lane NW • Olympia, WA 98502  
 Tel. 360 867-9284 • www.sargentengineers.com

SURVEYED: KCPW  
 DESIGNED: CBK  
 DRAWN: CBK  
 CHECKED: JSS  
 CRP No. 3684



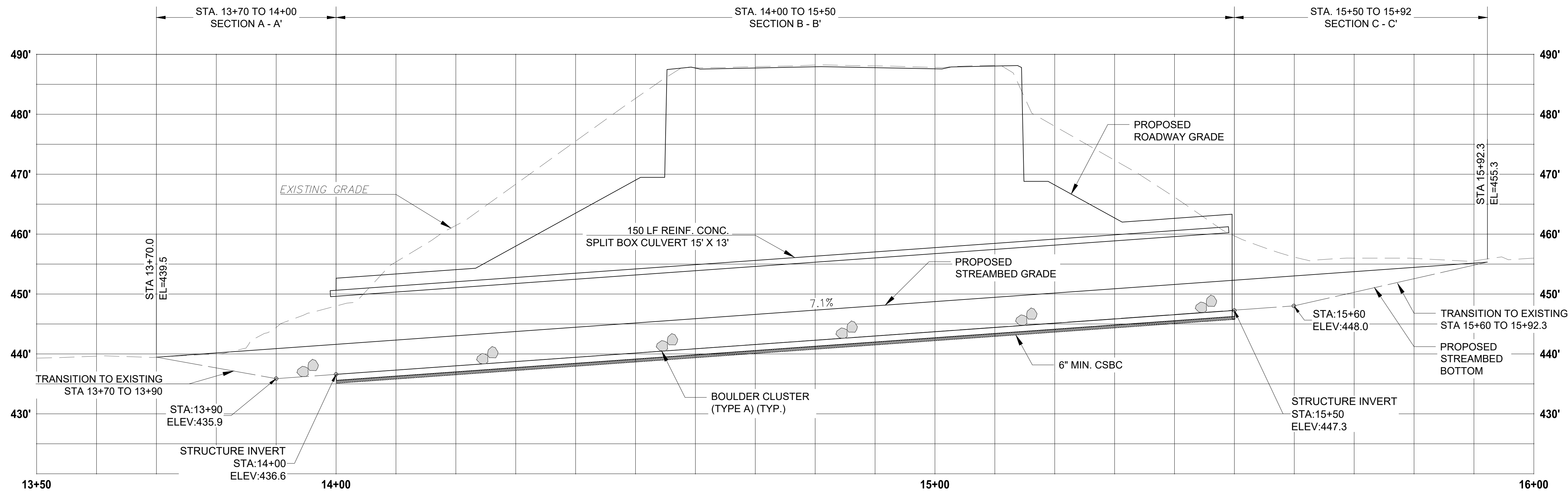
**KITSAP COUNTY**  
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NEWBERRY HILL ROAD - CULVERT  
**CULVERT PLAN & PROFILE**  
 KITSAP COUNTY, WASHINGTON  
 SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

DATE  
11/3/2023  
 SHEET  
9  
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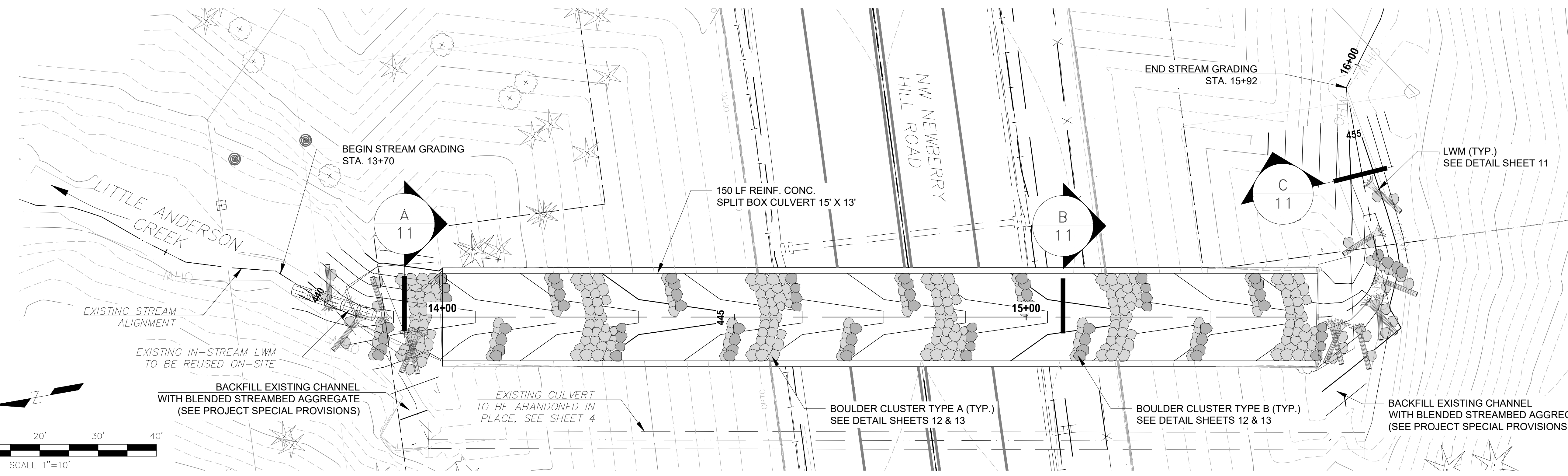
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NOTE: STREAMBED MATERIAL NOT SHOWN FOR CLARITY. SEE DETAIL SHEETS.



PROFILE VIEW

1" = 10'



PLAN VIEW

1" = 10'

**LWM NOTES**

SEE TYPICAL CHANNEL SECTIONS SHEET FOR LWM CONTROL POINT LOCATIONS.

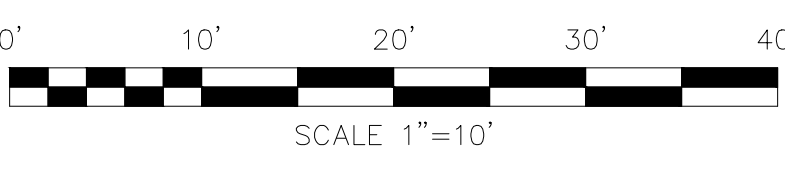
**LWM CONTROL POINTS**

1. STA. 13+80 SINGLE LOG
2. STA. 13+85 SINGLE LOG
3. STA. 13+90 SINGLE LOG
4. STA. 13+95 DOUBLE LOG
5. STA. 15+52 DOUBLE LOG
6. STA. 15+56 SINGLE LOG
7. STA. 15+60 DOUBLE LOG
8. STA. 15+63 SINGLE LOG
9. STA. 15+70 SINGLE LOG
10. STA. 15+80 SINGLE LOG

**BOULDER CLUSTER NOTES**

BOULDER CLUSTERS TYPE A BEGIN AT STA. 14+00 AND END AT STA. 15+50. SEE SHEETS 12 AND 13 FOR DETAILS AND SPACING.

BOULDER CLUSTERS TYPE B BEGIN AT STA. 13+95 AND END AT STA. 15+55. SEE SHEETS 12 AND 13 FOR DETAILS AND SPACING.

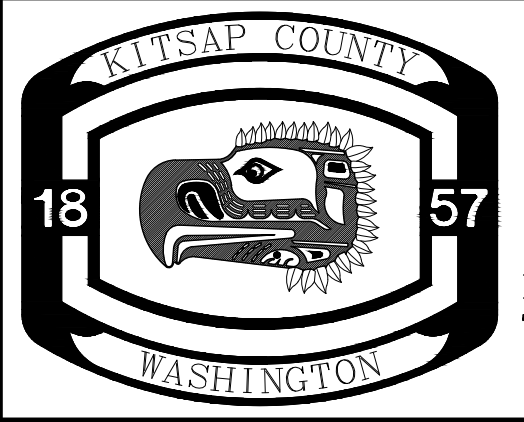
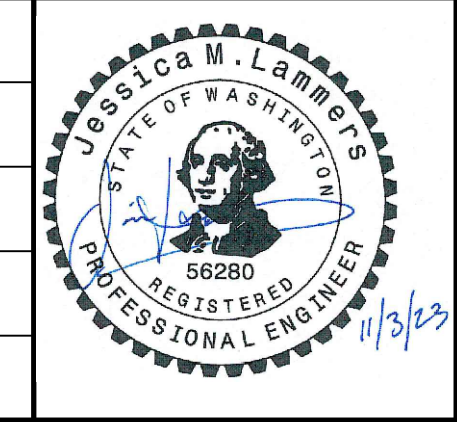


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 DRAWN: JML  
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 CRP No. 3684



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NEWBERRY HILL ROAD - CULVERT

**STREAM PLAN & PROFILE**

KITSAP COUNTY, WASHINGTON

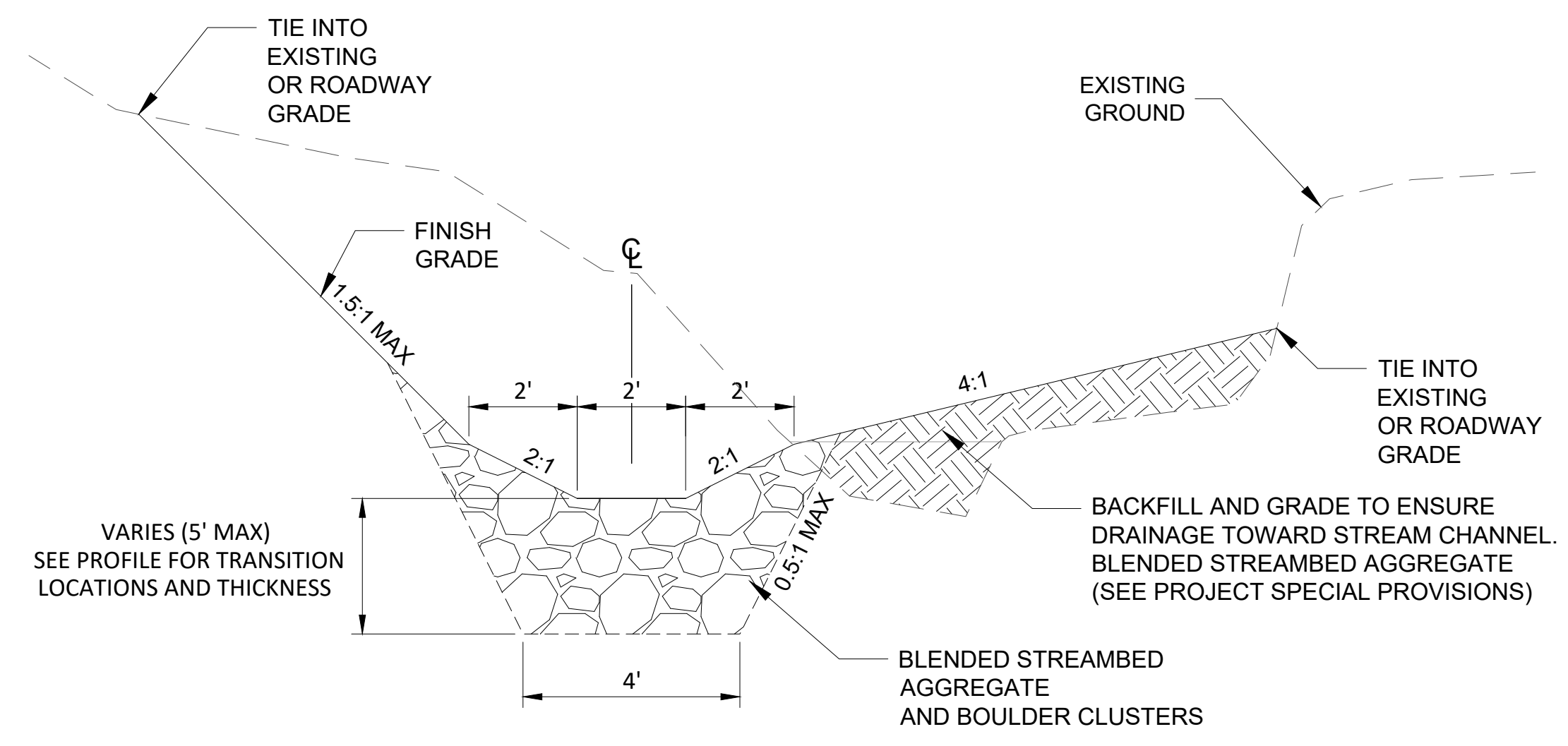
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

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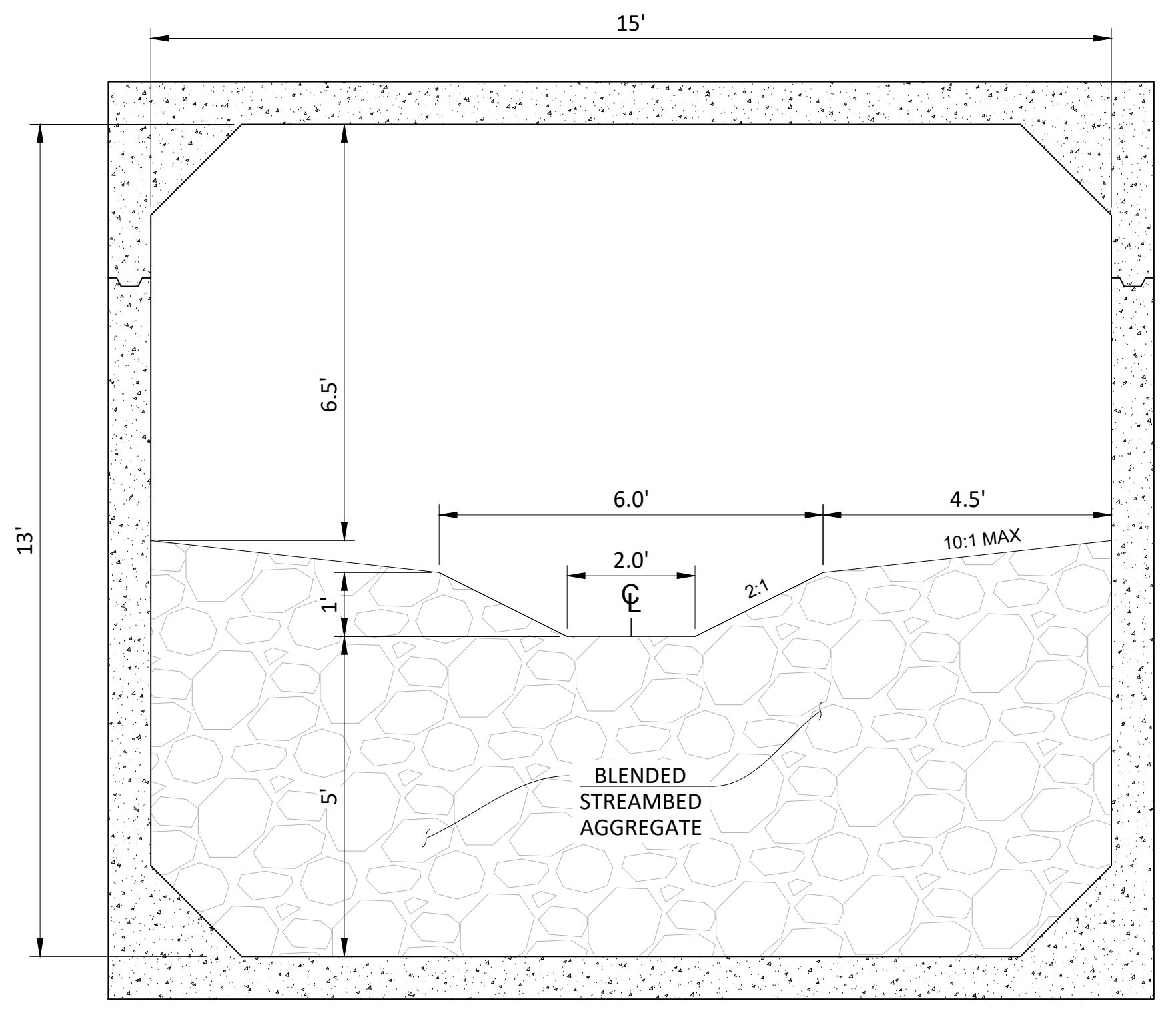
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Plotted: Nov 03, 2023 - 9:40 jammers Q:\2024\165 newberry hill culvert replacement\96\_CAD\dwg\sheet\_files\LittleAndersonCreek\_StreamsTypicalSections.dwg Layout Name: 2 Sections xrefs:

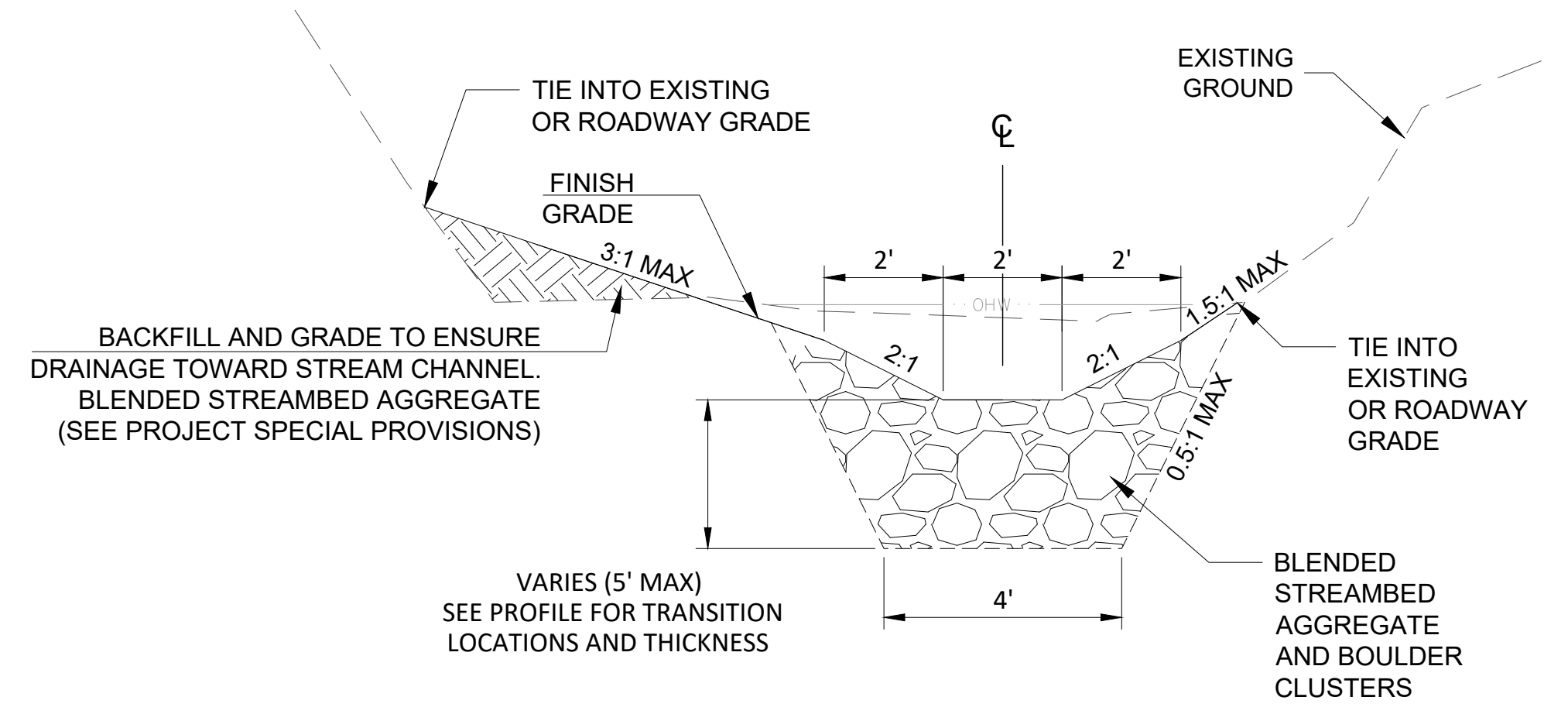
NOTE TYPICAL SECTIONS A-C: BOULDER CLUSTERS NOT SHOWN FOR CLARITY. BOULDER CLUSTERS TO BE CONSTRUCTED IN THE LOCATIONS SHOWN ON SHEET 10 PER STREAM DETAILS SHEETS 12 & 13.



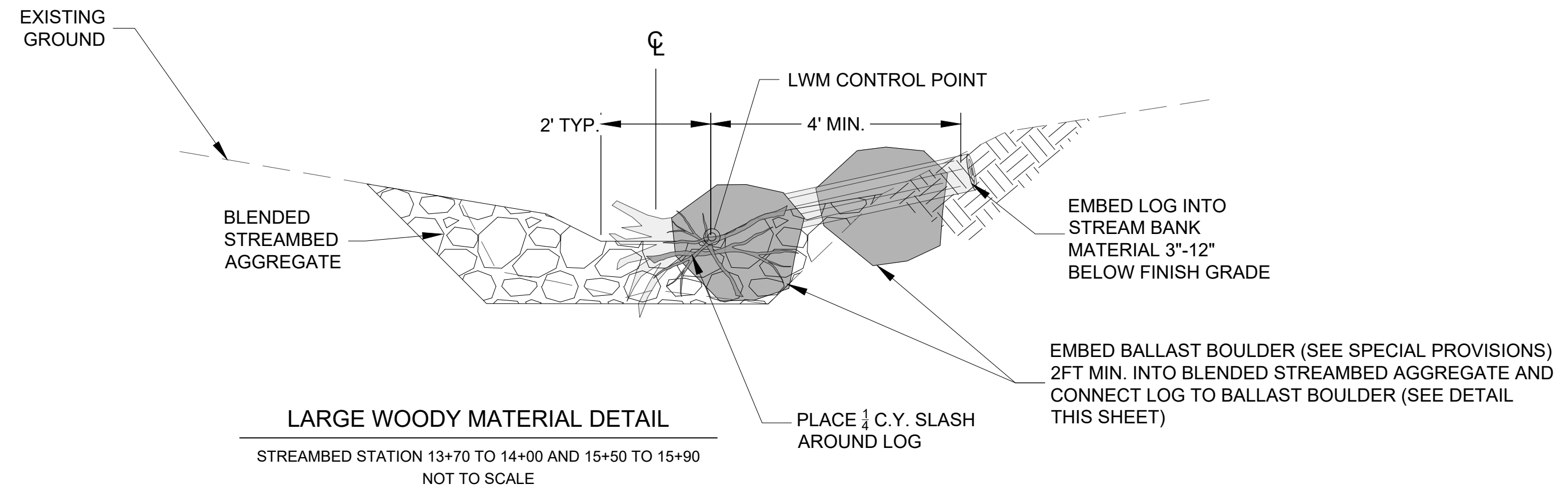
**TYPICAL SECTION A**  
 STREAMBED STATION 13+70 TO STREAMBED STATION 14+00  
 NOT TO SCALE



**TYPICAL SECTION B**  
 STREAMBED STATION 14+00 TO STREAMBED STATION 15+50  
 NOT TO SCALE



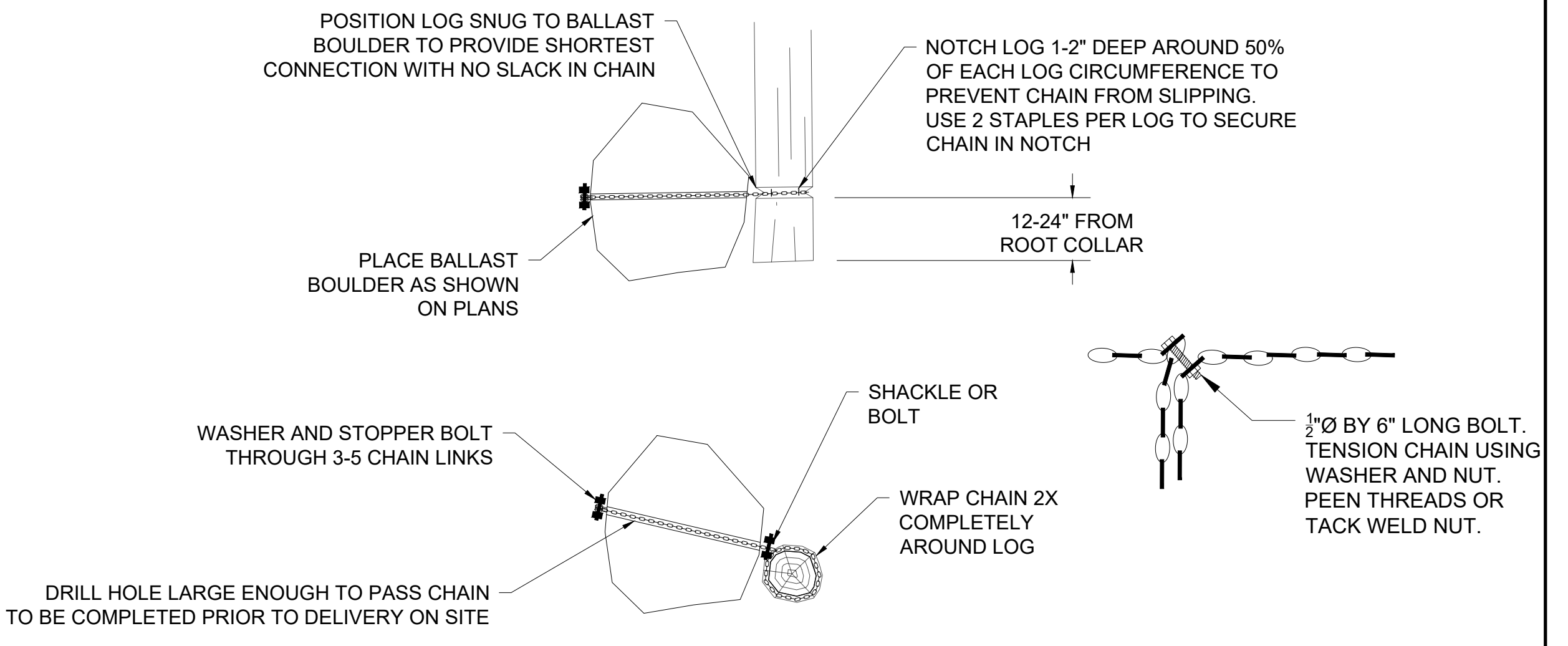
**TYPICAL SECTION C**  
 STREAMBED STATION 15+50 TO STREAMBED STATION 15+92  
 NOT TO SCALE



**LARGE WOODY MATERIAL DETAIL**  
 STREAMBED STATION 13+70 TO 14+00 AND 15+50 TO 15+90  
 NOT TO SCALE

**SPECIAL NOTES FOR LARGE WOODY MATERIAL**

- DRAWINGS SHOW THE PROPOSED LOCATION OF THE LARGE WOODY MATERIAL. THE FINAL DESIGN MAY BE MODIFIED BY THE ENGINEER TO SUIT LOCAL CONDITIONS AND AVAILABLE MATERIALS. FURTHER, MODIFICATIONS TO THIS DESIGN MAY BE MADE IN THE FIELD BY THE ENGINEER DURING CONSTRUCTION.
- WOOD SPECIES FOR LARGE WOODY MATERIAL (LWM) PIECES SHALL BE GREEN (NOT STOCKPILED) DOUGLAS FIR OR RED CEDAR UNLESS OTHERWISE SPECIFIED. NO DIMENSIONAL BEAMS OR TIMBERS, HEMLOCK, ALDER, OR OTHER DECIDUOUS TREE SPECIES SHALL BE USED.
- EACH LOG AND BALLAST BOULDER SHALL BE INSTALLED WITH MINIMUM EMBEDMENT DEPTHS AND LENGTHS AS SHOWN ON THE PLANS OR AS DIRECTED IN THE FIELD BY THE ENGINEER.
- LOCAL EXCAVATION SHALL BE PERFORMED PRIOR TO, DURING AND AFTER PLACEMENT OF LWM AS DIRECTED BY THE ENGINEER.
- TYPICAL DESIGNS ARE MEANT AS A GUIDE ONLY. MODIFICATION TO SUIT SITE CONDITIONS WILL LIKELY BE REQUIRED.



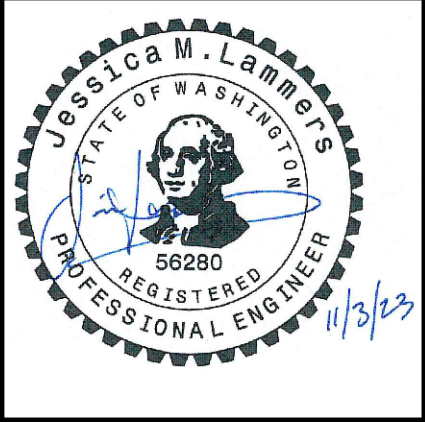
**LOG TO BALLAST BOULDER CONNECTION DETAIL**  
 NOT TO SCALE

**BID SET**

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 DESIGNED: JML  
 DRAWN: JML  
 CHECKED: PCB  
 CRP No. 3684



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**NEWBERRY HILL ROAD - CULVERT**

**TYPICAL CHANNEL SECTIONS**

KITSAP COUNTY, WASHINGTON  
 SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

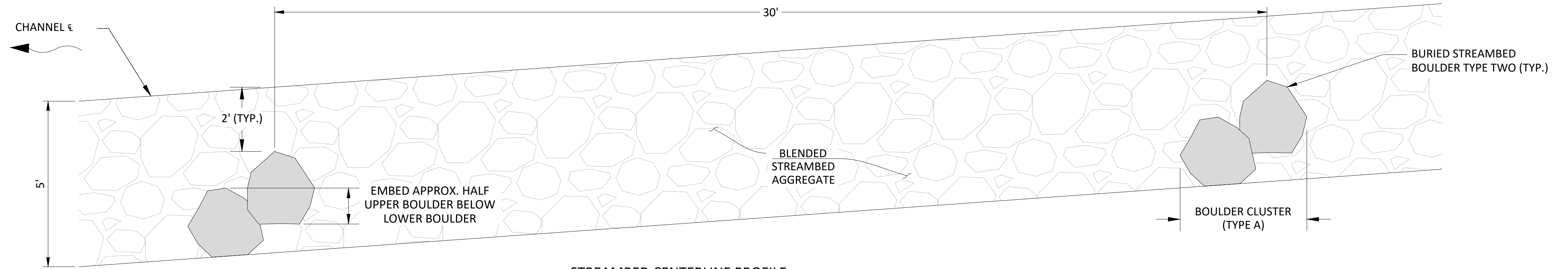
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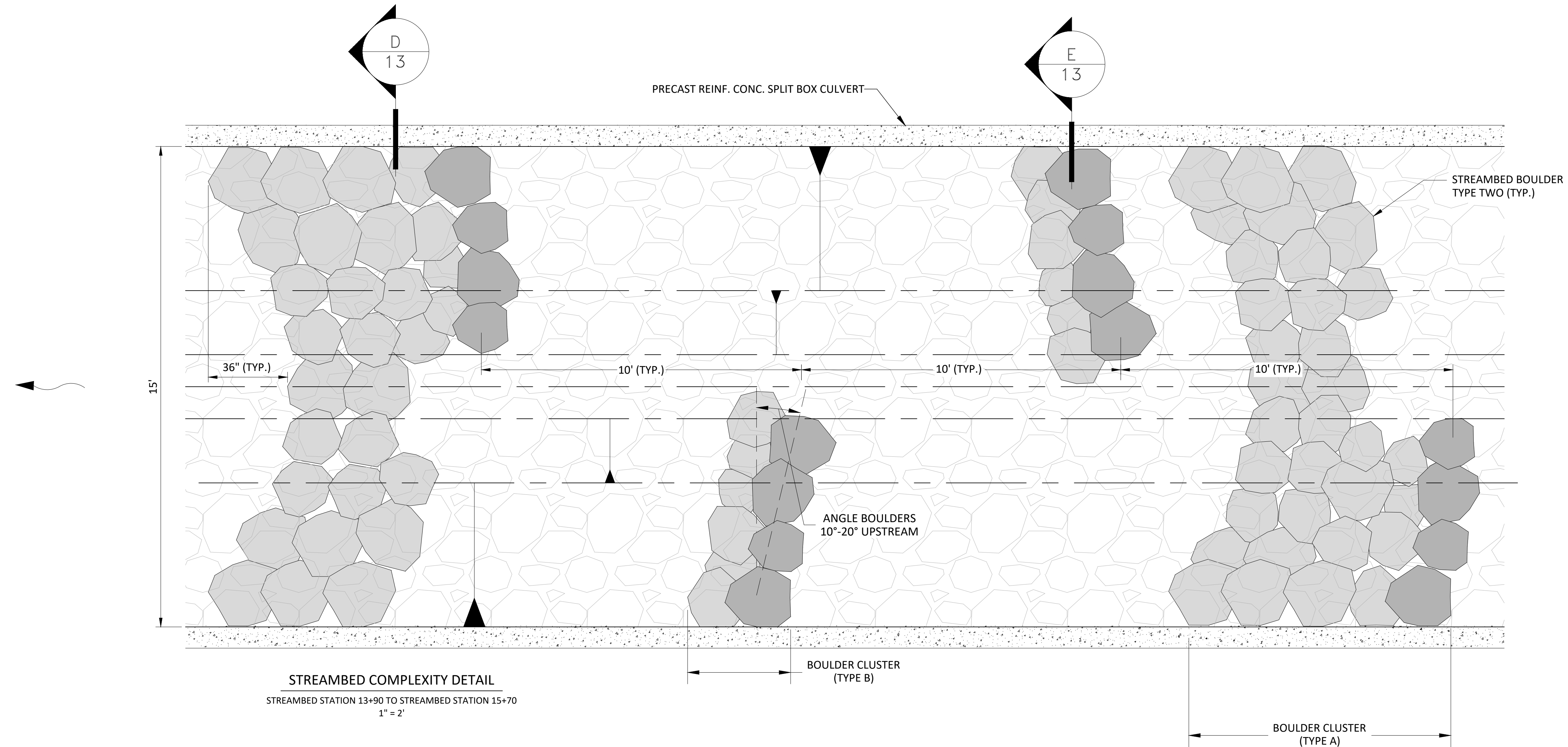
Plotted: Nov 03, 2023 - 9:40 jammers Q:\2004165 newberry hill culvert replacement\96\_CAD\dwg\sheet\_files\LittleAndersonCreek\_StreamDetails.dwg Layout Name: 3 Stream Details - 1 xrefs:

**STREAMBED CONSTRUCTION NOTES**

1. BOULDER CLUSTER (TYPE A) EXTENDS ACROSS THE BOTTOM OF THE CULVERT. BOULDERS SHALL BE PLACED IN AN ARCH CONFIGURATION BRACED AGAINST EACH OTHER.
2. BOULDER CLUSTER (TYPE B) EXTENDS MIN. 2' BELOW CHANNEL THALWEG.
3. BOULDER CLUSTERS SHALL BE PLACED ON ALTERNATING SIDES OF THE CULVERT TO CREATE AN ALTERNATING LOW FLOW MEANDER PATH.
4. CONSTRUCT STREAMBED WORKING DOWNSTREAM TO UPSTREAM. STREAMBED MATERIAL SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. PLACEMENT, QUANTITY OF BOULDERS, AND TYPICAL SPACING MAY VARY FROM THAT SHOWN ON THE PLANS TO ACCOMMODATE VARIABILITY IN STONE SIZES AND SHAPES.



**STREAMBED CENTERLINE PROFILE**  
 STREAMBED STATION 13+90 TO STREAMBED STATION 15+70  
 1" = 2'



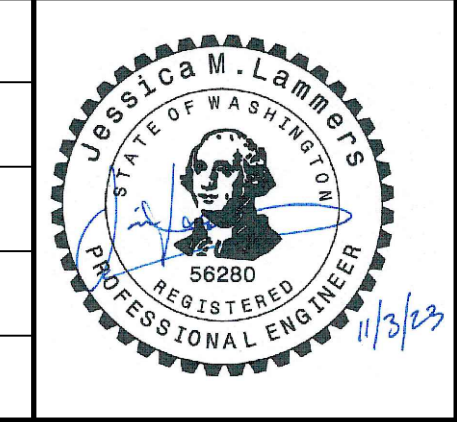
**STREAMBED COMPLEXITY DETAIL**  
 STREAMBED STATION 13+90 TO STREAMBED STATION 15+70  
 1" = 2'

**BID SET**

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 DRAWN: JML  
 CHECKED: PCB  
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**NEWBERRY HILL ROAD - CULVERT**

**CULVERT STREAMBED DETAILS**

KITSAP COUNTY, WASHINGTON  
 SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

DATE 11/3/2023  
 SHEET 12 OF 23

Plotted: Nov 03, 2023 - 9:40 jammers Q:\2004165 newberry hill culvert replacement\96\_CAD\dwg\sheet\_files\LittleAndersonCreek\_StreamDetails.dwg Layout Name: 3 Stream Details - 2 xrefs:

**STREAMBED CONSTRUCTION NOTES**

**BOULDER CLUSTER (TYPE A)**

- USE STREAMBED BOULDERS TYPE TWO (SEE WSDOT STANDARD SPEC 9-03.11(5)).
- CONSTRUCT BOULDER CLUSTER (TYPE A) BY PLACING BOTTOM ROW OF STREAMBED BOULDERS (TYPE TWO) IMPINGING AGAINST THE CULVERT WALL AND EXTENDING ACROSS THE CULVERT BOTTOM AT THE LOCATIONS AND SPACING SHOWN ON THE PLANS. BRACE STREAMBED BOULDERS AGAINST EACH OTHER AND IN AN ARCH TO INTERLOCK. PLACE BLENDED STREAMBED AGGREGATE UPSTREAM OF THE BOTTOM ARCH TO FILL GAPS AND INTERLOCK.
- PLACE SECOND ROW OF STREAMBED BOULDERS (TYPE TWO) UPSTREAM OF THE FIRST ROW WITH APPROXIMATELY HALF OF HEIGHT OF THE SECOND ROW ABOVE THE FIRST. PLACE BLENDED STREAMBED AGGREGATE UPSTREAM OF THE TOP ARCH TO FILL GAPS BETWEEN BOULDERS AND INTERLOCK.
- PLACE THIRD ROW OF BOULDERS (TYPE TWO) UPSTREAM OF THE SECOND ROW WITH APPROXIMATELY HALF OF HEIGHT OF THE THIRD ROW ABOVE THE SECOND. LEAVE 5'-6" OPEN IN MIDDLE OF THIRD LAYER. PLACE BLENDED STREAMBED AGGREGATE UPSTREAM OF THE THIRD ROW TO FILL GAPS BETWEEN BOULDERS AND INTERLOCK.
- PLACE FOURTH ROW OF BOULDERS (TYPE TWO) UPSTREAM OF THE THIRD ROW WITH APPROXIMATELY HALF OF HEIGHT OF THE FOURTH ROW ABOVE THE THIRD. THE FOURTH ROW WILL ONLY EXTEND TO THE EDGE OF THE CHANNEL. PLACE BLENDED STREAMBED AGGREGATE UPSTREAM OF THE FOURTH ROW TO FILL GAPS BETWEEN BOULDERS AND INTERLOCK.
- PLACE FIFTH ROW OF BOULDERS (TYPE TWO) UPSTREAM OF THE FOURTH ROW WITH APPROXIMATELY HALF OF HEIGHT OF THE FIFTH ROW ABOVE THE FOURTH. THE FIFTH ROW WILL ONLY EXTEND TO THE EDGE OF THE CHANNEL. PLACE BLENDED STREAMBED AGGREGATE UPSTREAM OF THE FOURTH ROW TO FILL GAPS BETWEEN BOULDERS AND INTERLOCK.

**BOULDER CLUSTER (TYPE B)**

- USE STREAMBED BOULDERS TYPE TWO (SEE WSDOT STANDARD SPEC 9-03.11(5)).
- CONSTRUCT BOULDER CLUSTER (TYPE B) BY PLACING STREAMBED BOULDERS (TYPE TWO) IMPINGING AGAINST THE CULVERT WALL AT THE LOCATIONS AND SPACING SHOWN ON THE PLANS. STREAMBED BOULDERS SHOULD BE BRACED AGAINST EACH OTHER WITH LOWEST LAYER EMBEDDED IN UNDERLYING BLENDED STREAMBED AGGREGATE.
- BRACE STREAMBED BOULDERS AGAINST EACH OTHER AND INTERLOCK.
- PLACE BLENDED STREAMBED AGGREGATE UPSTREAM OF THE LOWEST LAYER TO FILL GAPS BETWEEN BOULDERS AND INTERLOCK.
- PLACE SECOND ROW OF STREAMBED BOULDERS (TYPE TWO) UPSTREAM OF THE FIRST ROW WITH APPROXIMATELY HALF OF HEIGHT OF THE SECOND ROW ABOVE THE FIRST.
- PLACE BLENDED STREAMBED AGGREGATE UPSTREAM OF THE SECOND ROW TO FILL GAPS BETWEEN BOULDERS AND INTERLOCK.

**BLENDED STREAMBED AGGREGATE NOTES**

- CONSTRUCT STREAMBED WORKING DOWNSTREAM TO UPSTREAM. BLENDED STREAMBED AGGREGATE SHALL BE PLACED IN 12-INCH LIFTS AND ADDITIONAL SEALING MIX WASHED IN PER THE CONTRACT SPECIFICATIONS TO ENSURE THE STREAMBED SEALS.
- STREAMBED MATERIAL SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. PLACEMENT AND SPACING MAY VARY FROM THAT SHOWN ON THE PLANS TO ACCOMMODATE VARIABILITY IN STONE SIZES AND SHAPES.

**STREAMBED GRADATION NOTES**

- BLENDED STREAMBED AGGREGATE SHALL COMPRISE WSDOT STREAMBED COBBLES AND WSDOT STREAMBED BOULDERS PER THE RATIOS BELOW. STREAMBED SHALL BE SEALED WITH SEALING MIX PER RATIOS BELOW. NOTE MATERIAL GRADATIONS BELOW AND SEE WSDOT STANDARD SPECIFICATIONS SECTION 9-03 FOR MATERIALS SPECIFICATIONS.

BLENDED STREAMBED AGGREGATE: 80% STREAMBED COBBLES 12 INCH  
20% STREAMBED BOULDERS TYPE ONE

SEALING MIX: 50% STREAMBED SEDIMENT  
50% STREAMBED SAND

**STREAMBED COBBLES 12 INCH**

| Approximate Size | Percent Passing |
|------------------|-----------------|
| 12"              | 99-100          |
| 10"              | 70-90           |
| 5"               | 30-60           |
| 3/4"             | 10 max.         |

**STREAMBED SEDIMENT**

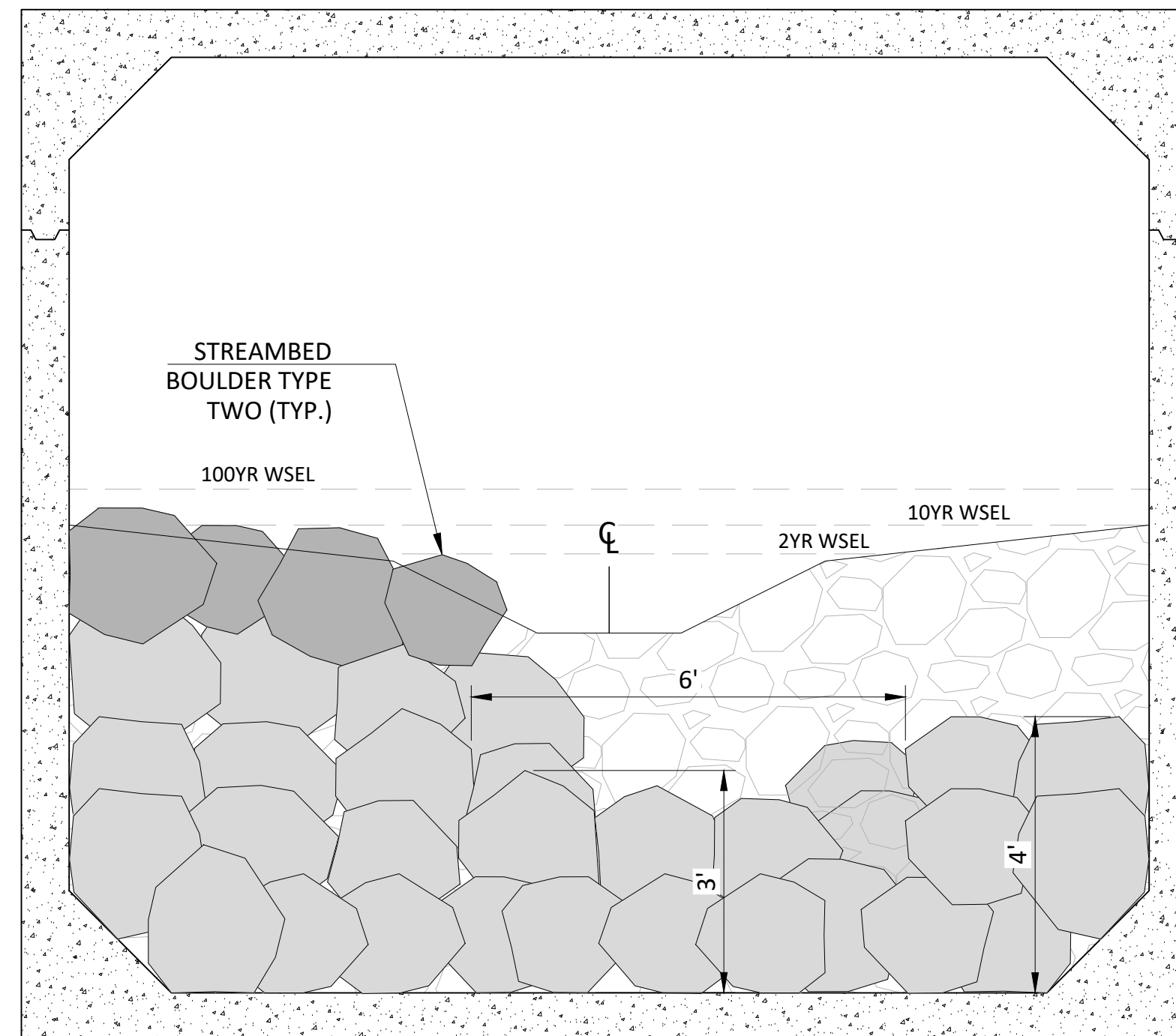
| Sieve Size | Percent Passing |
|------------|-----------------|
| 2 1/2"     | 99-100          |
| 2"         | 65-95           |
| 1"         | 50-85           |
| No. 4      | 26-44           |
| No. 40     | 16 max.         |
| No. 200    | 5 - 9           |

**STREAMBED SAND**

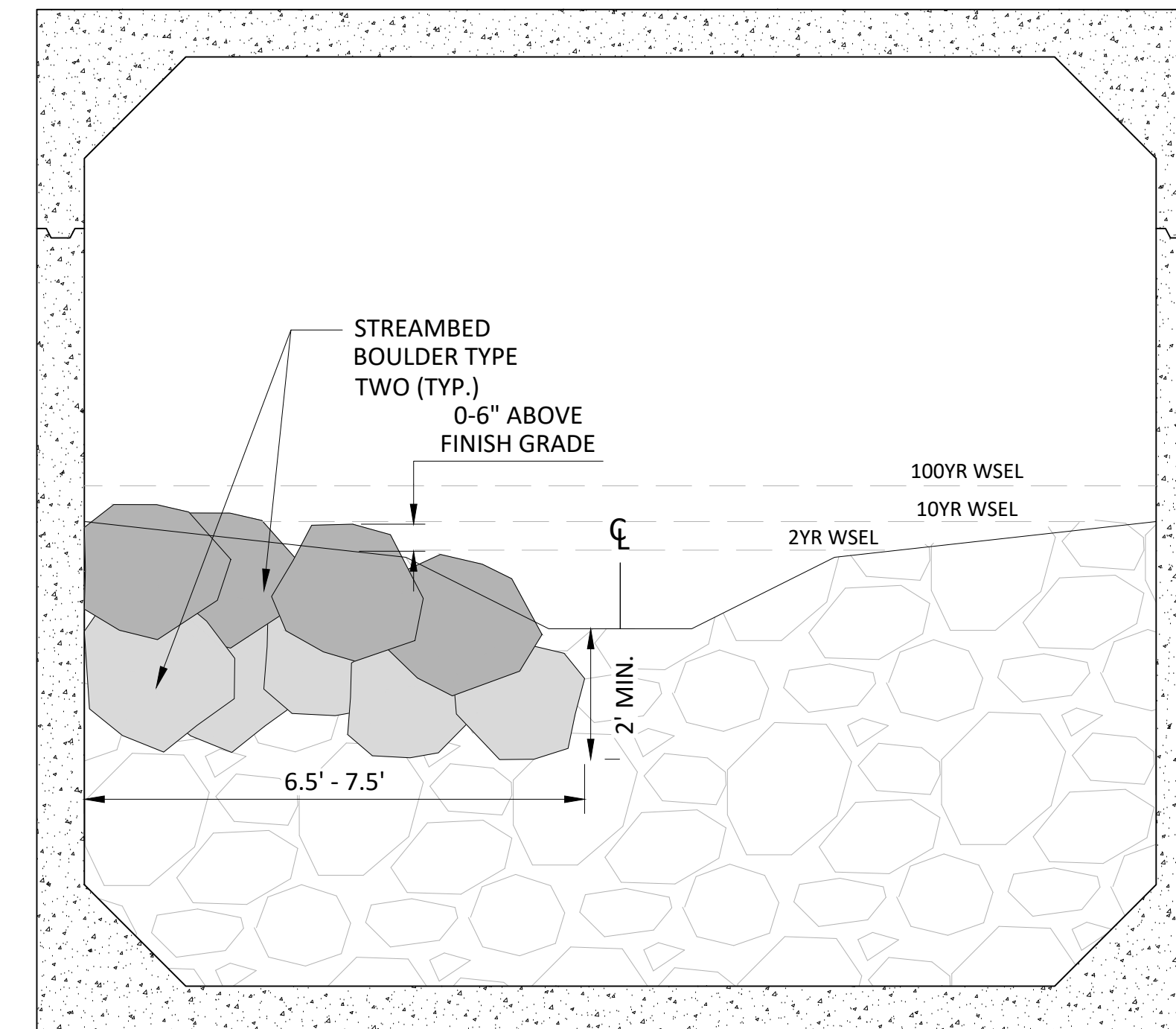
| Sieve Size | Percent Passing |
|------------|-----------------|
| 1/2"       | 99-100          |
| 3/8"       | 90-100          |
| No. 4      | 90 Max          |
| No. 8      | 32 - 67         |
| No. 200    | 2 - 7           |

STREAMBED BOULDERS TYPE ONE  
Approximate Size 12" - 18"

STREAMBED BOULDERS TYPE TWO  
Approximate Size 18" - 28"



**BOULDER CLUSTER (TYPE A) TYPICAL SECTION** **D**  
12  
STREAMBED STATION 13+70 TO STREAMBED STATION 15+50  
NOT TO SCALE



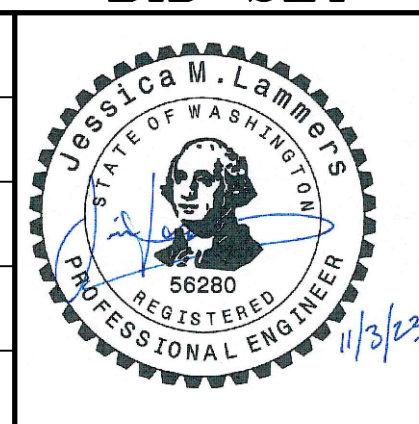
**BOULDER CLUSTER (TYPE B) TYPICAL SECTION** **E**  
12  
STREAMBED STATION 13+70 TO STREAMBED STATION 15+50  
NOT TO SCALE

**BID SET**

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| SURVEYED: | KCPW |
| DESIGNED: | JML  |
| DRAWN:    | JML  |
| CHECKED:  | PCB  |
| CRP No.   | 3684 |



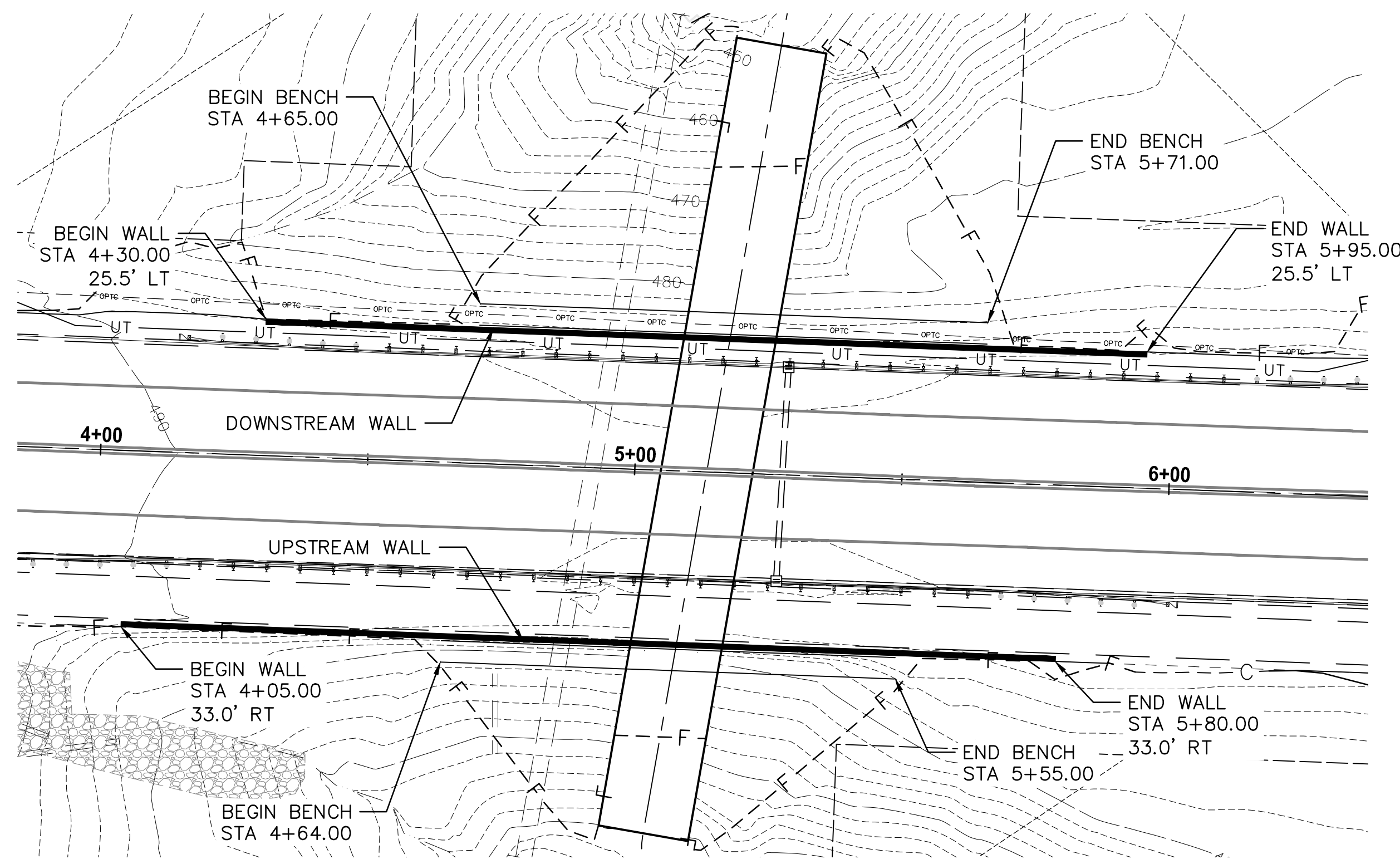
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**NEWBERRY HILL ROAD - CULVERT**

**CULVERT STREAMBED DETAILS 2**

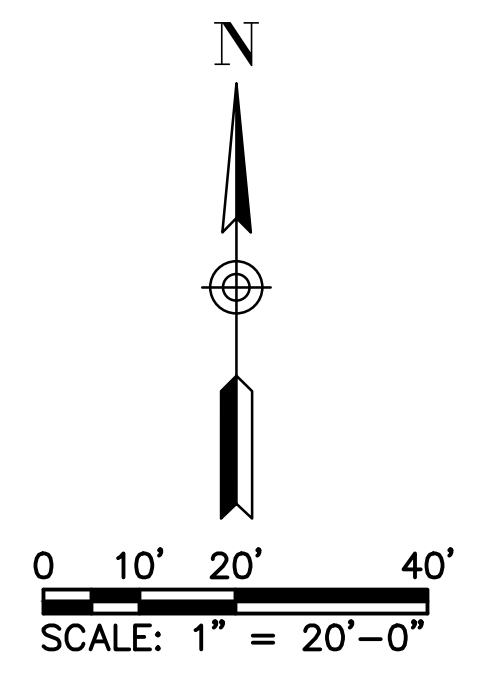
KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

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| OF    | 23        |



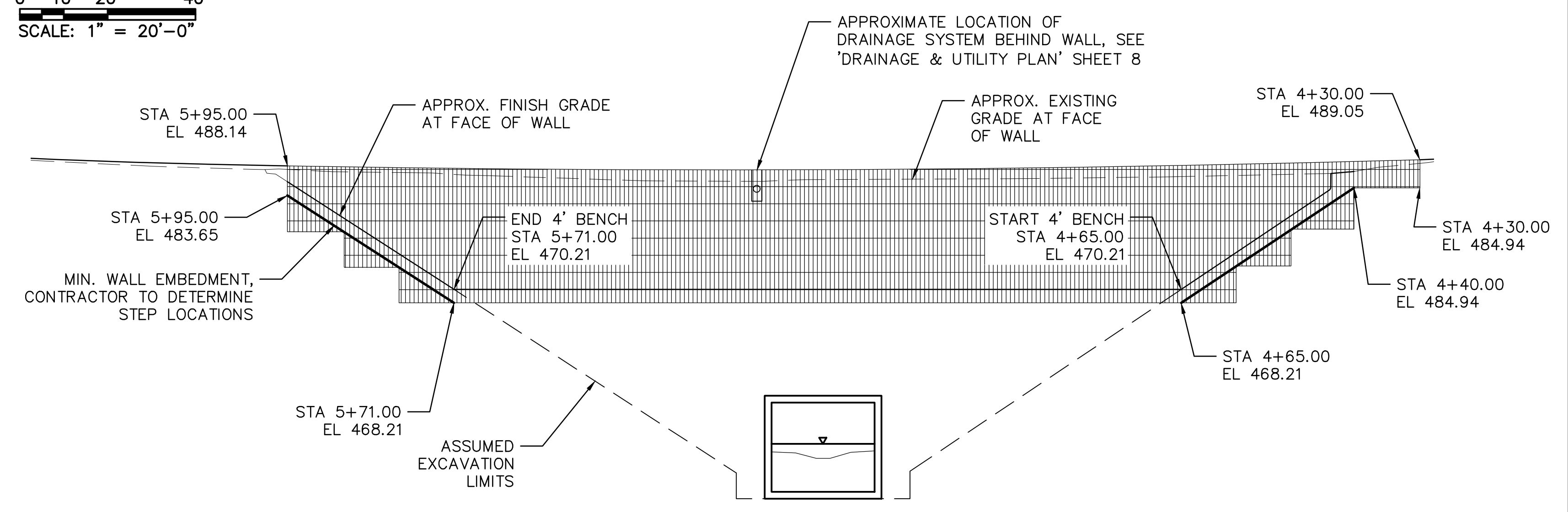
**RETAINING WALL PLAN**

NOTE: ROADWAY FILL CATCH LINES SHOWN ASSUME OPEN EXCAVATION WITH 1.5:1 SLOPES FOR CULVERT STRUCTURE INSTALLATION. CATCH LINE LOCATION WILL VARY DEPENDING ON THE CONTRACTOR'S EXCAVATION PLAN.

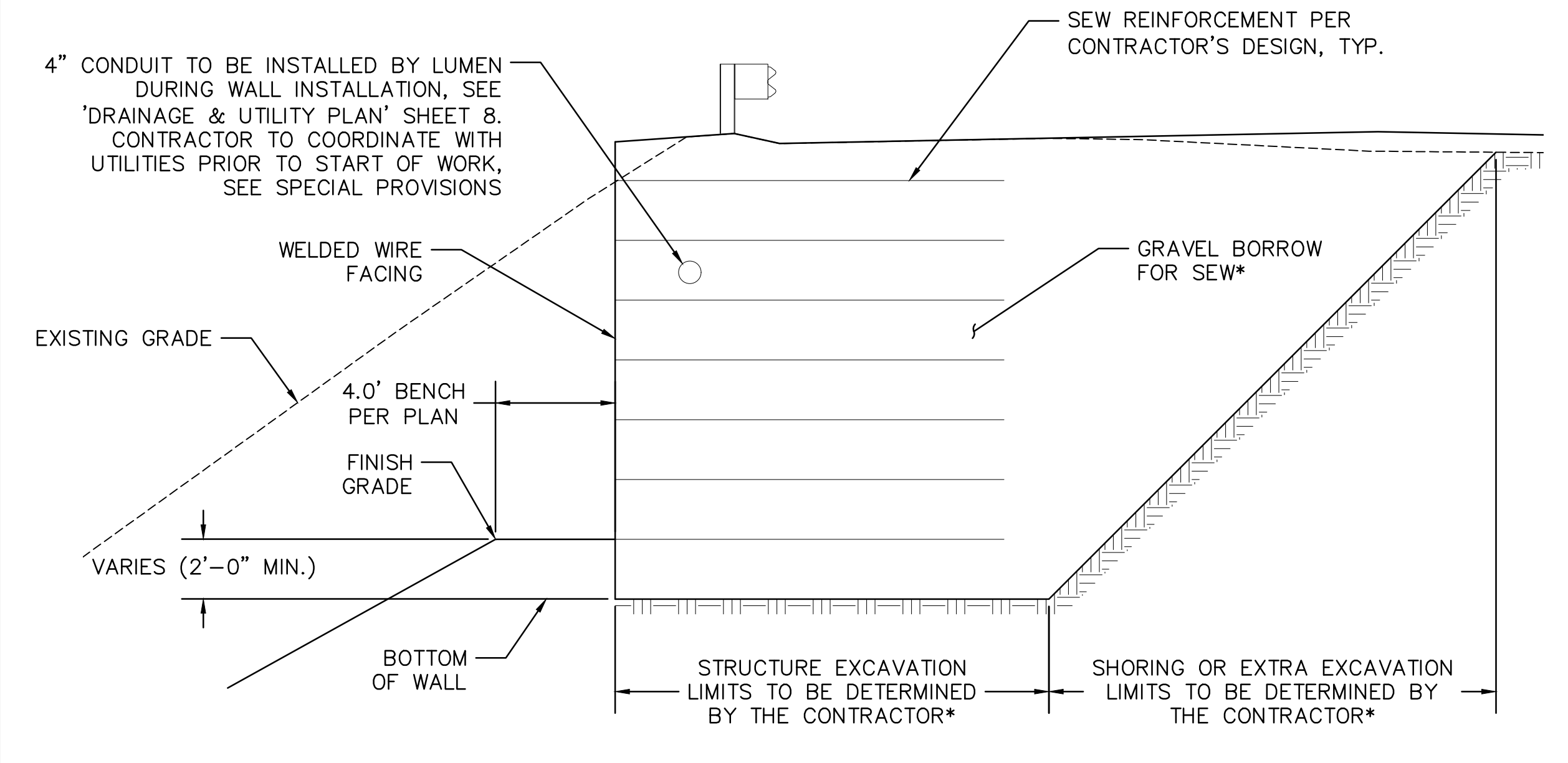


**STRUCTURAL EARTH WALL GENERAL NOTES**

THE CONTRACTOR SHALL PROVIDE THE COMPLETE DESIGN OF THE STRUCTURAL EARTH WALL. THE STRUCTURAL DESIGN SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, LATEST EDITION.



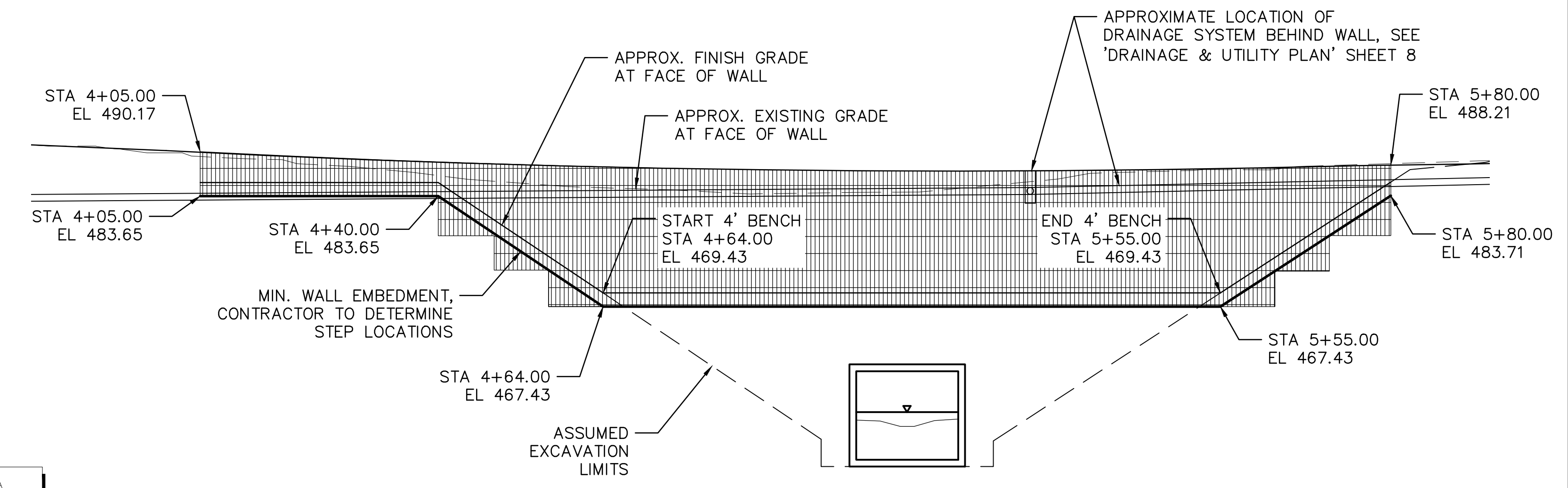
**DOWNSTREAM WALL ELEVATION**



**TYPICAL WALL SECTION**

DOWNSTREAM WALL SHOWN, UPSTREAM SIMILAR

\* WALL EXCAVATION, SHORING OR EXTRA EXCAVATION, AND GRAVEL BORROW TO BE INCLUDED IN THE SQUARE FOOT COST FOR "STRUCTURAL EARTH WALL"



**UPSTREAM WALL ELEVATION**

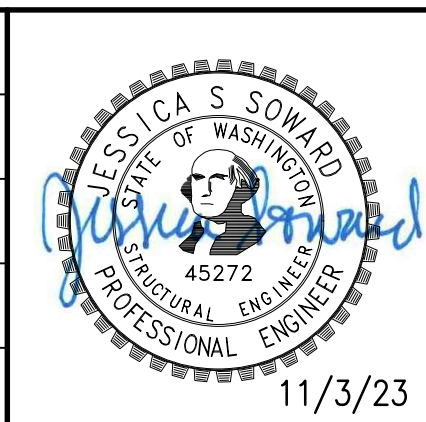
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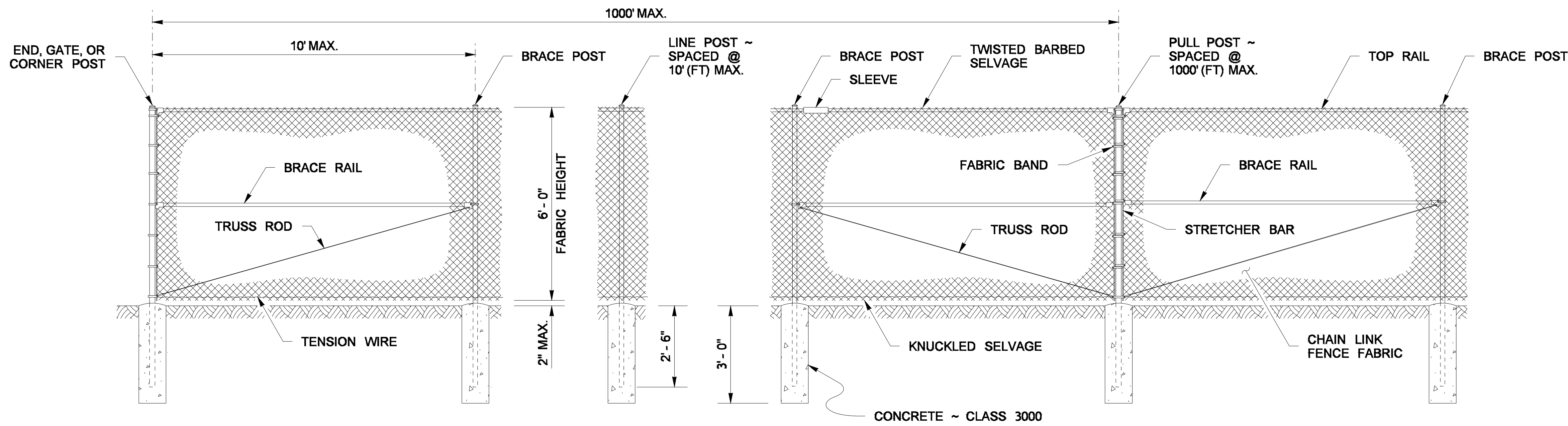
NEWBERRY HILL ROAD - CULVERT

**STRUCTURAL EARTH WALLS**

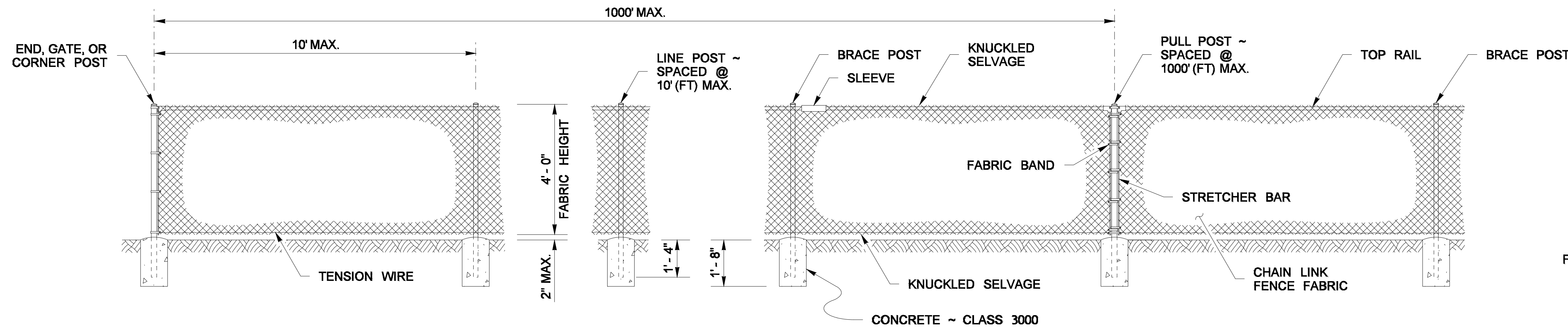
KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

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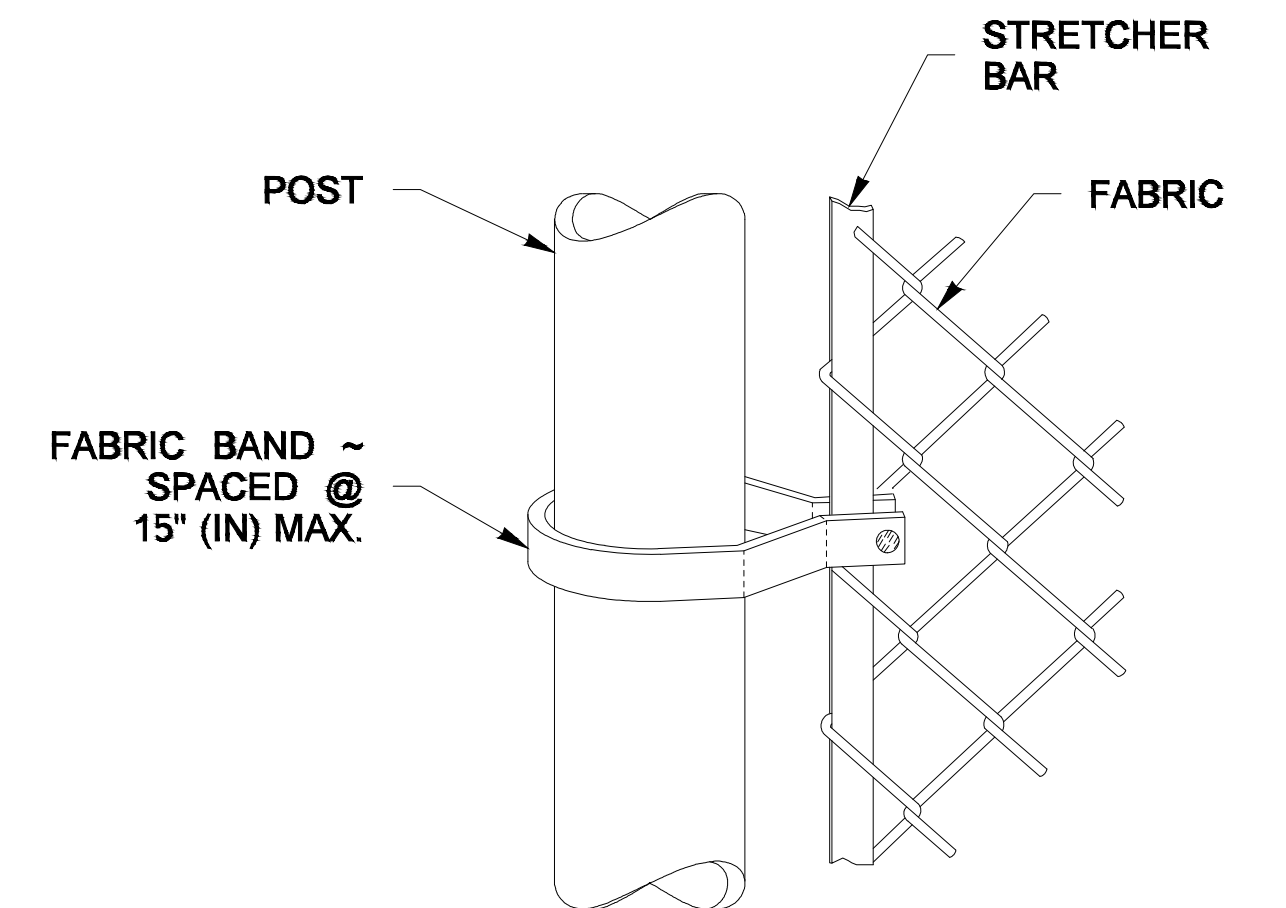
**TYPE 1**



**TYPE 6**

**NOTES**

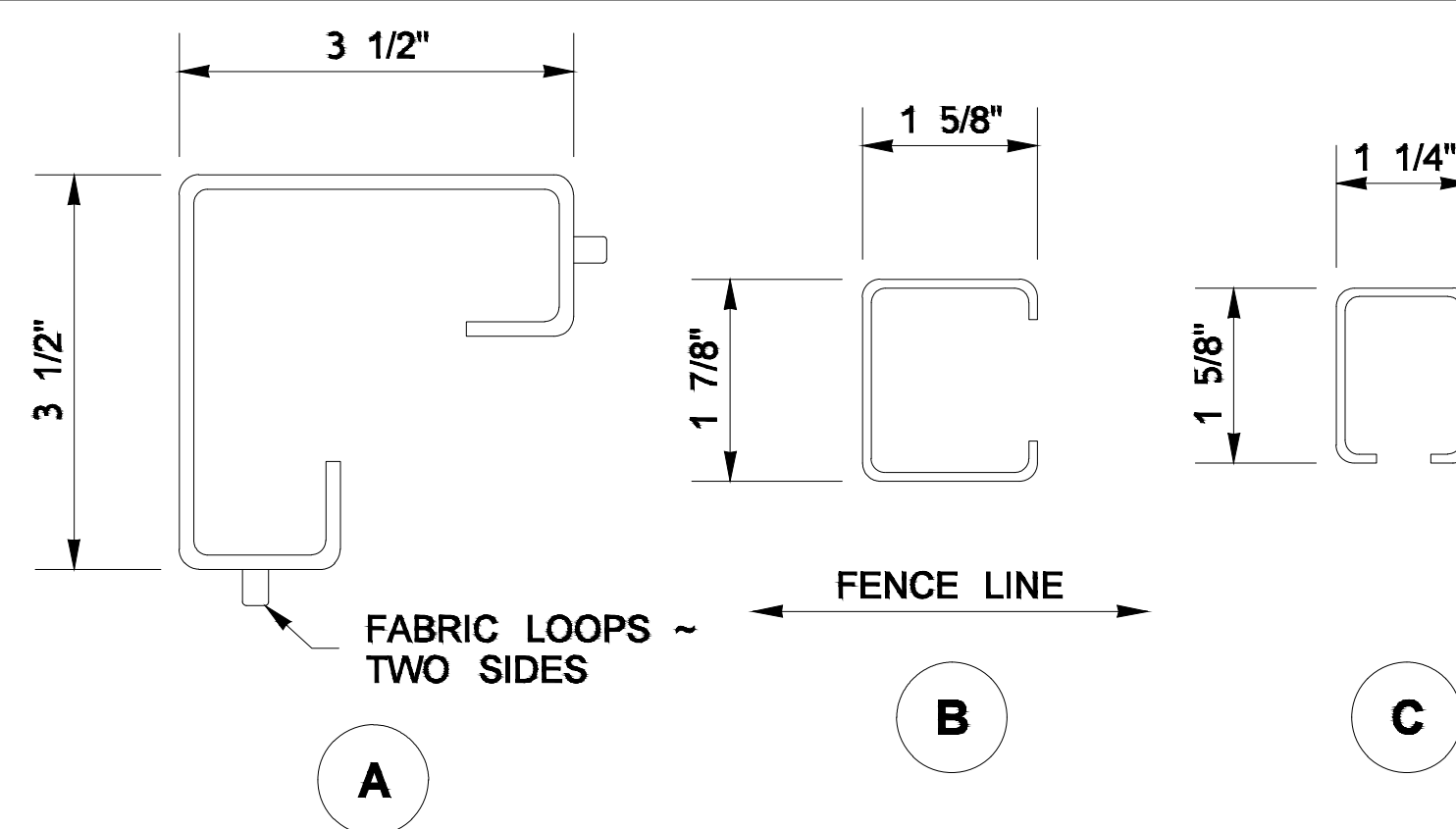
1. ALL CONCRETE POST BASES SHALL BE 10" (IN) MINIMUM DIAMETER.
2. TENSION WIRE SHALL BE PLACED WITHIN THE LIMITS OF THE FIRST FULL FABRIC WEAVE.
3. DETAILS ARE ILLUSTRATIVE AND SHALL NOT LIMIT HARDWARE DESIGN OR POST SELECTION OF ANY PARTICULAR FENCE TYPE.



**METHOD OF FASTENING STRETCHER BAR TO POST (SHOWN FOR ROUND POST)**

**POST AND RAIL SPECIFICATIONS**

| MEMBER                    | PIPE                | CONC.   |                  |
|---------------------------|---------------------|---------|------------------|
|                           | NOM. SIZE (SCH. 40) | SECTION | WEIGHT (LB./FT.) |
| END, CORNER, OR PULL POST | 2 1/2" DIAM.        | A       | 5.10             |
| LINE OR BRACE POST        | 2" DIAM.            | B       | 2.40             |
| BRACE OR TOP RAIL         | 1 1/4" DIAM.        | C       | 1.35             |
| GATE POST                 | 3 1/2" DIAM.        |         |                  |



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NEWBERRY HILL ROAD - CULVERT  
**CHAIN LINK FENCE WITH TOP RAIL**  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

DATE  
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15  
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23

NATIVE PLANTS INSTALLED

| Symbol  | Description                                  | Number | Size        |
|---|--|--------|-------------|
| NOT SHOWN   | SALAL ( <i>Gaultheria shallon</i> )          | 340    | 1-ft Tall   |
|  | DOUGLAS FIR ( <i>Pseudotsuga menziesii</i> ) | 36     | 3-4 ft Tall |
|  | WESTERN RED CEDAR ( <i>Thuja plicata</i> )   | 37     | 3-4 ft Tall |
|  | RED ALDER ( <i>Alnus Rubra</i> )             | 38     | 3-4 ft Tall |
| TOTAL PLANTS INSTALLED  |  | 451    |             |

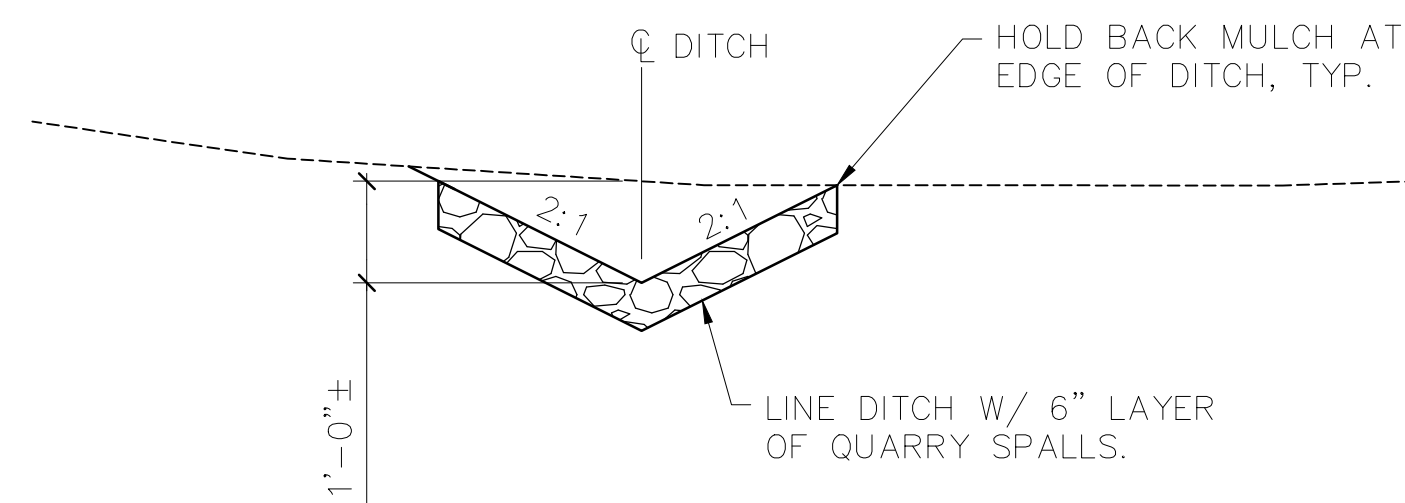
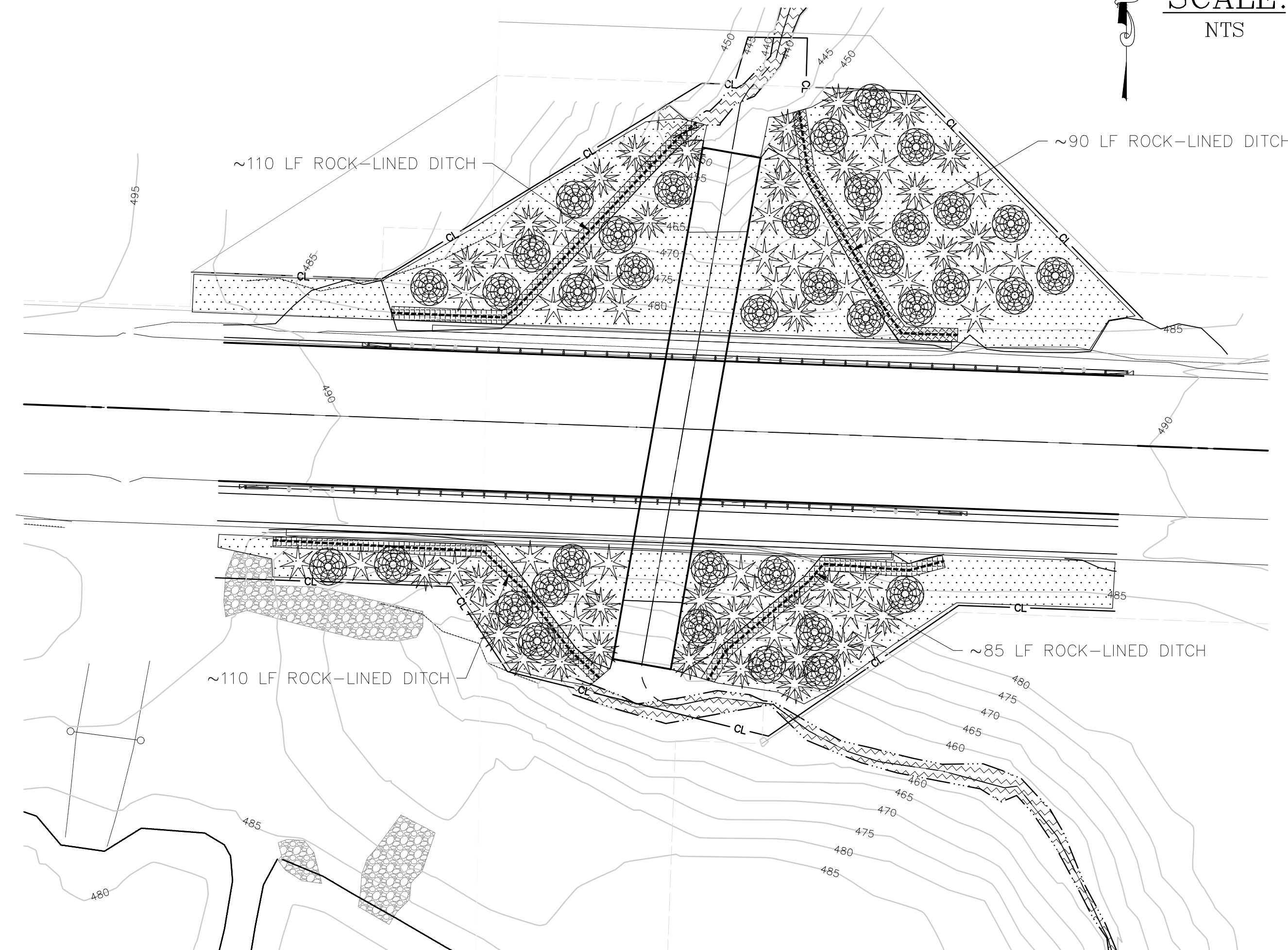
SCALE:  
NTS

GENERAL NOTES:

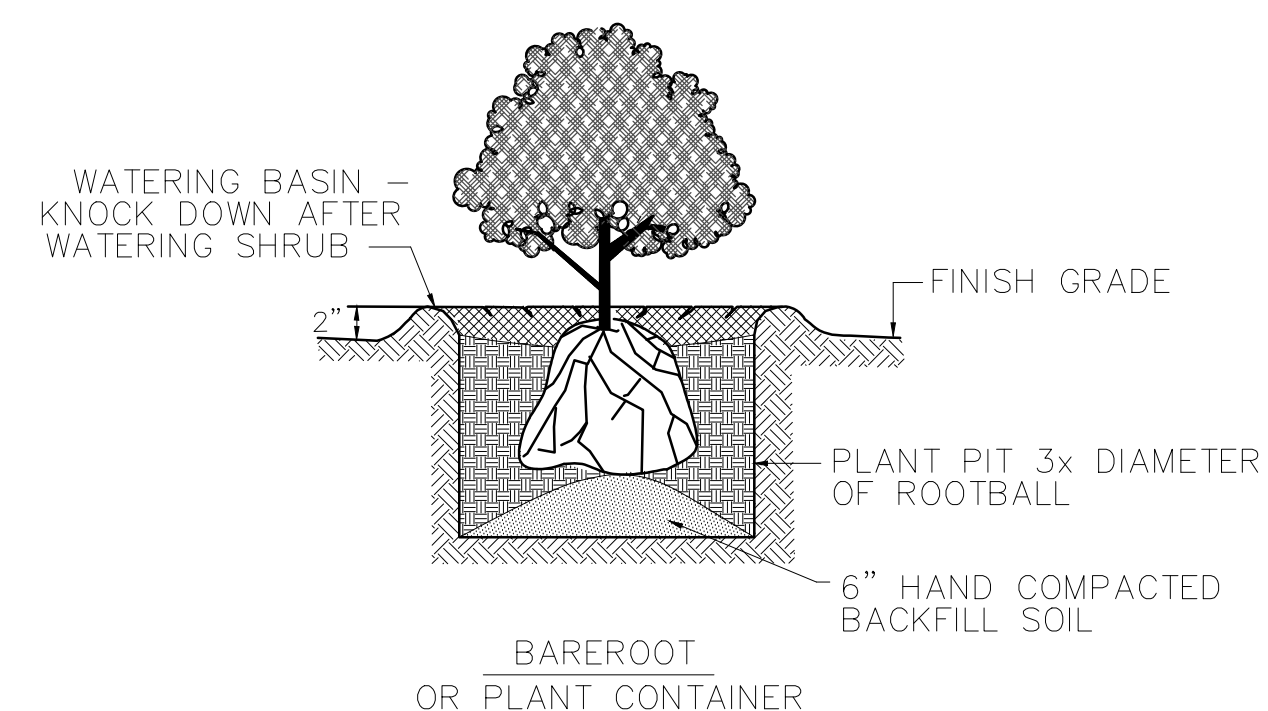
1. FILL AROUND NEW PLANTS AND TREES WITH SOIL REMOVED FROM HOLES.
2. HYDROSEED ROADWAY EMBANKMENTS AND CLEARED AREAS.
3. ALL PLANTING WILL BE CONDUCTED PER WSDOT STD SPEC 8-02.

PLANTING CONSTRUCTION NOTES:

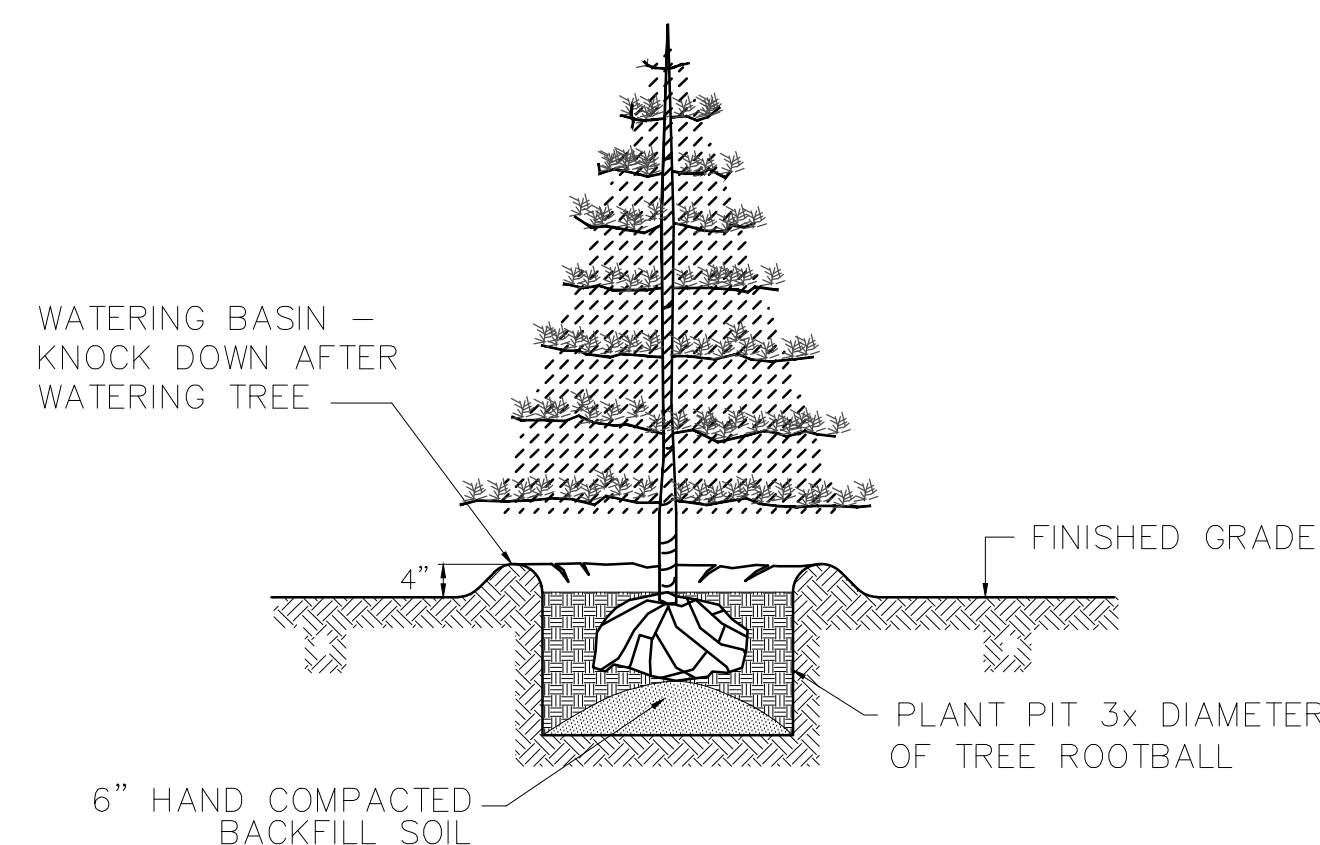
1. PRIOR TO CONSTRUCTION, CLEARING LIMITS SHALL BE CLEARLY IDENTIFIED. THE ENGINEER SHALL VERIFY AND APPROVE PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL ARRANGE TO MEET ON SITE WITH ENGINEER TO DISCUSS LIMITS OF WORK AND METHODS. CONSTRUCTION ACTIVITIES SHALL NOT COMMENCE UNTIL ACCESS, LIMITS OF WORK, AND METHODS ARE APPROVED.
3. PLANTING PLANS REPRESENT A CONCEPTUAL PLANT LAYOUT. FINAL PLANT LOCATIONS SHALL BE APPROVED BY ENGINEER PRIOR TO PLANTING.
4. ALL PLANTS SHALL BE NURSERY GROWN A MINIMUM OF ONE YEAR. PLANT MATERIAL IS TO BE SUPPLIED BY COMMERCIAL NURSERIES THAT SPECIALIZE IN PLANTS NATIVE TO THE PACIFIC NORTHWEST. PLANT SUBSTITUTIONS ARE SUBJECT TO APPROVAL BY ENGINEER.
5. PLANTING SHALL TAKE PLACE DURING THE DORMANT SEASON (NOVEMBER 1ST TO FEBRUARY 28TH). PLANTING MAY BE ALLOWED AT OTHER TIMES AFTER REVIEW AND WRITTEN APPROVAL BY ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS AND EXCESS SOIL ACCUMULATED BY THIS PROJECT.
7. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION.
8. AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND NOT SHOWN TO BE RE-VEGETATED ON THESE PLANS SHALL BE RESTORED AND SEEDED.
9. DISCREPANCIES BETWEEN THE PLANS AND SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING PLANTS AFTER INSTALLATION.



TYPICAL ROCK-LINED DITCH DETAIL

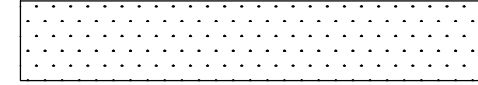



SHRUB PLANTING DETAIL



TREE PLANTING DETAIL (CONIFER)

LEGEND:

- EXISTING RIGHT OF WAY LINE
- TEMPORARY CONSTRUCTION EASEMENT
-  SEEDING & MULCHING W/ BIODEGRADABLE EC MATTING
-  ROCK LINED DITCH

NOTE: SALAL ARE NOT SHOW IN PLAN VIEW FOR CLARITY. SALAL PLANTS SHALL BE INTERSPERSED THROUGHOUT THE TREES NO CLOSER THAN 4' ON CENTER. PLANTS SHALL BE DISTRIBUTED EVENLY TO BOTH SIDES OF THE ROADWAY.

TREES SHALL BE PLANTED AT APPROXIMATELY 10' ON CENTER.

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NEWBERRY HILL ROAD - CULVERT

PLANTING PLAN

KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

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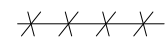

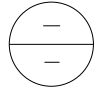

SHEET  
16  
OF  
23



**DETOUR NOTES:**

- PCMS WITH "ROAD WILL BE CLOSED" NOTIFICATION SHALL BE PLACED 14 DAYS PRIOR TO CLOSURE.
- DRAWINGS ARE NOT TO SCALE AND SIGN LOCATIONS ARE APPROXIMATE. SIGNS SHALL NOT OBSTRUCT VIEW OF EXISTING PERMANENT SIGNING.
- ANY TRAFFIC CONTROL ON WA SR 3 REQUIRES ADVANCE COORDINATION WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT).
- ALL TEMPORARY TRAFFIC CONTROL PLANS AND DEVICES SHALL MEET OR EXCEED MINIMUM REQUIREMENTS OF THE KITSAP COUNTY ROAD STANDARDS 2020 EDITION, FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION WITH REVISIONS, AND THE WSDOT STANDARD SPECIFICATIONS (SS) 2023 EDITION.

**LEGEND**

- CLOSURE                                  
- DIRECTION OF DETOUR ROUTE            
- INTERSECTION SIGNAGE DETAIL        
- PCMS    

**TRAFFIC CONTROL TABLES**

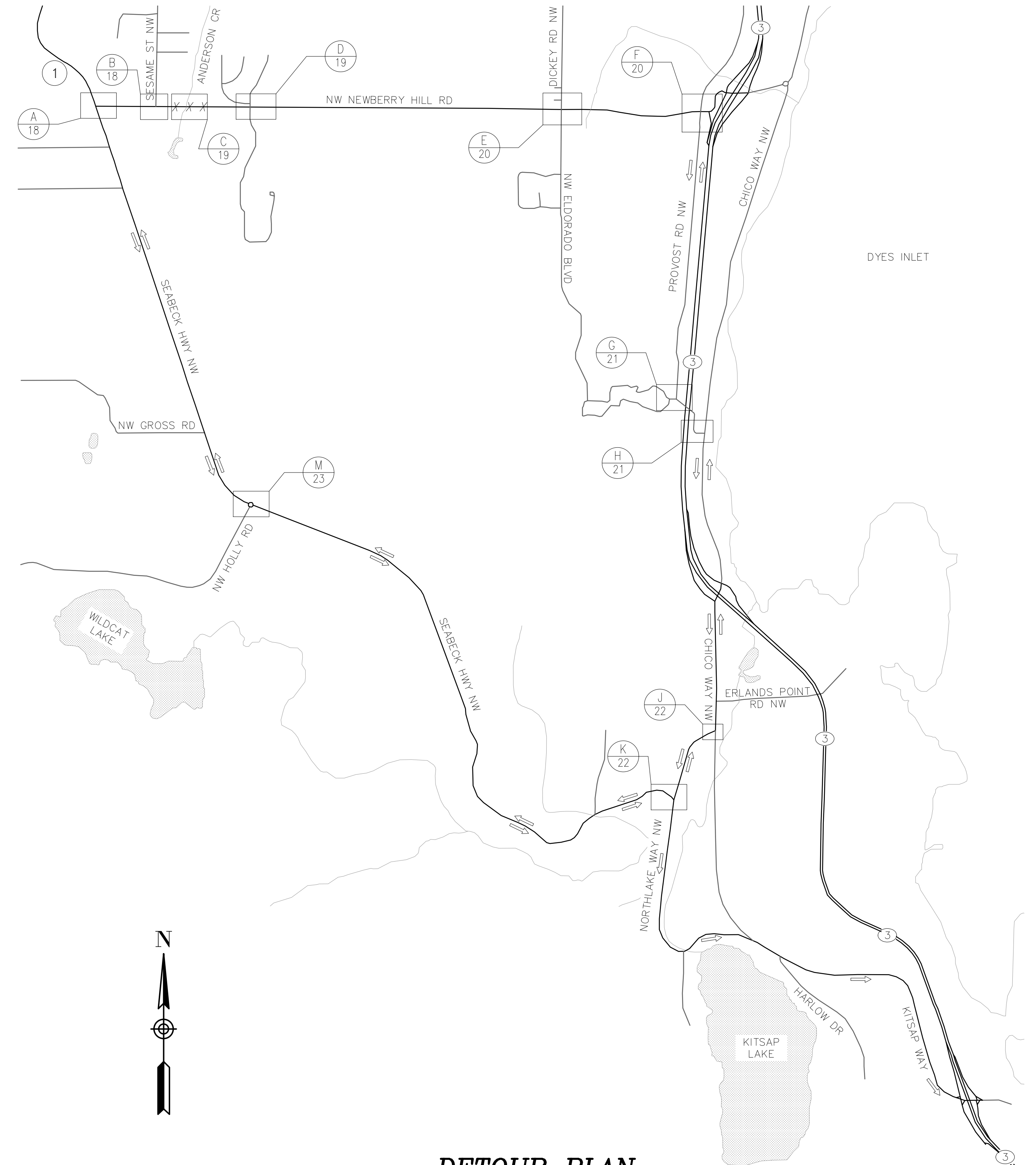
| SIGN SPACING = X (1)   |                |            |  |
|--|----------------|------------|--|
| RURAL HIGHWAYS   | 60 / 65 MPH    | 800' ±     |  |
| RURAL ROADS  | 45 / 55 MPH    | 500' ±     |  |
| RURAL ROADS & URBAN ARTERIALS                                  | 35 / 40 MPH    | 350' ±     |  |
| 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.

| MINIMUM 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 | -  | -  |

| 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<br>9,900 TO 22,000 lbs. |           |          |          | HOST VEHICLE WEIGHT<br>> 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                   |   |           |          |          |                                      |          |     |     |     |     |

NOTE:  
TABLES ARE TYPICAL FOR ALL TRAFFIC CONTROL DEVICES WHERE APPLICABLE.



**DETOUR PLAN**

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**NEWBERRY HILL ROAD - CULVERT**

**DETOUR PLAN**

KITSAP COUNTY, WASHINGTON  
 SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

DATE  
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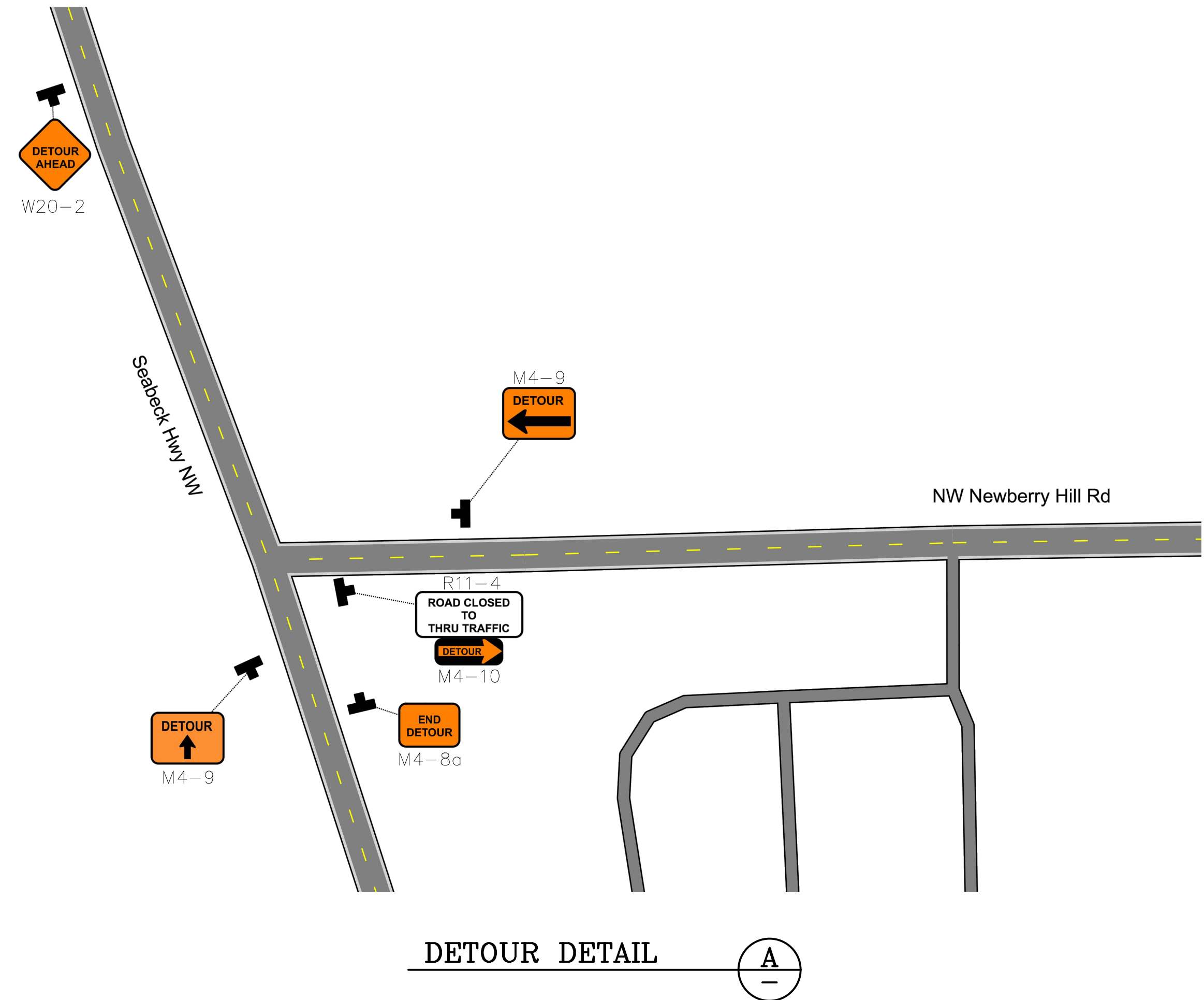
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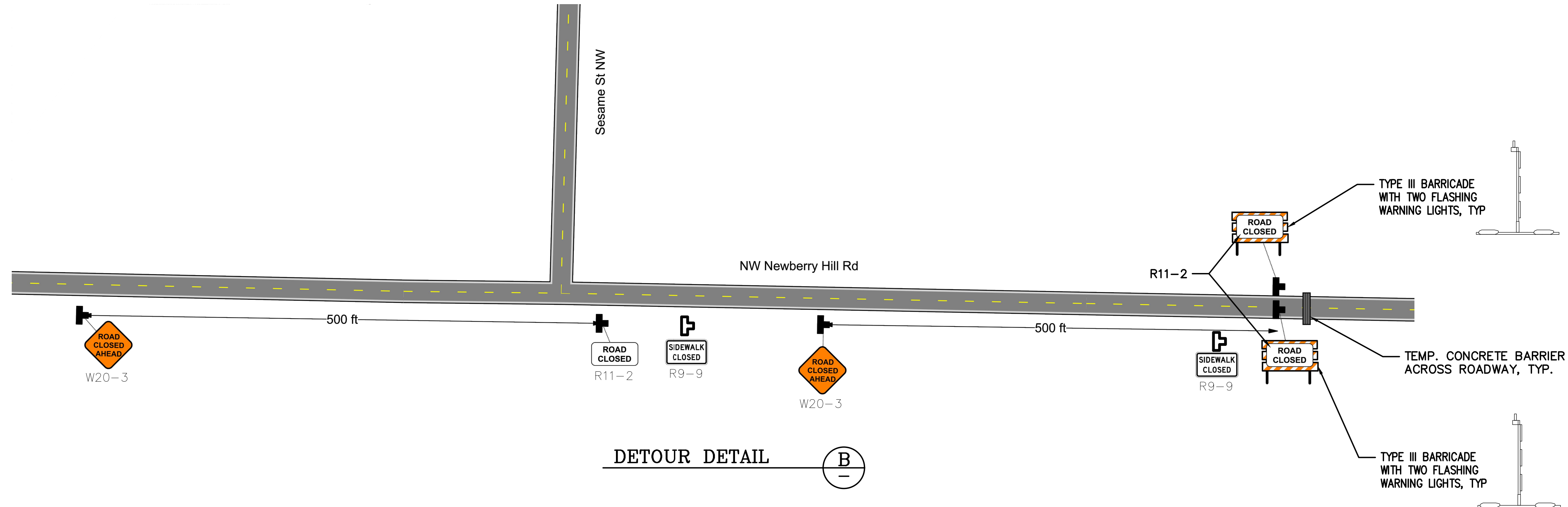
**LEGEND**

- CONSTRUCTION SIGN CLASS A 
- CONSTRUCTION SIGN CLASS B 

| SIGN   | SIZE (in.) |
|--------|------------|
| M4-8a  | 24x18      |
| M4-9   | 30x24      |
| M4-10  | 48x18      |
| R9-9   | 24x12      |
| R11-2  | 48x30      |
| R11-3a | 60x30      |
| R11-4  | 60x30      |
| W20-2  | 36x36      |
| W20-3  | 36x36      |



**DETOUR DETAIL** A



**DETOUR DETAIL** B

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NEWBERRY HILL ROAD - CULVERT  
**DETOUR SIGNAGE DETAILS**  
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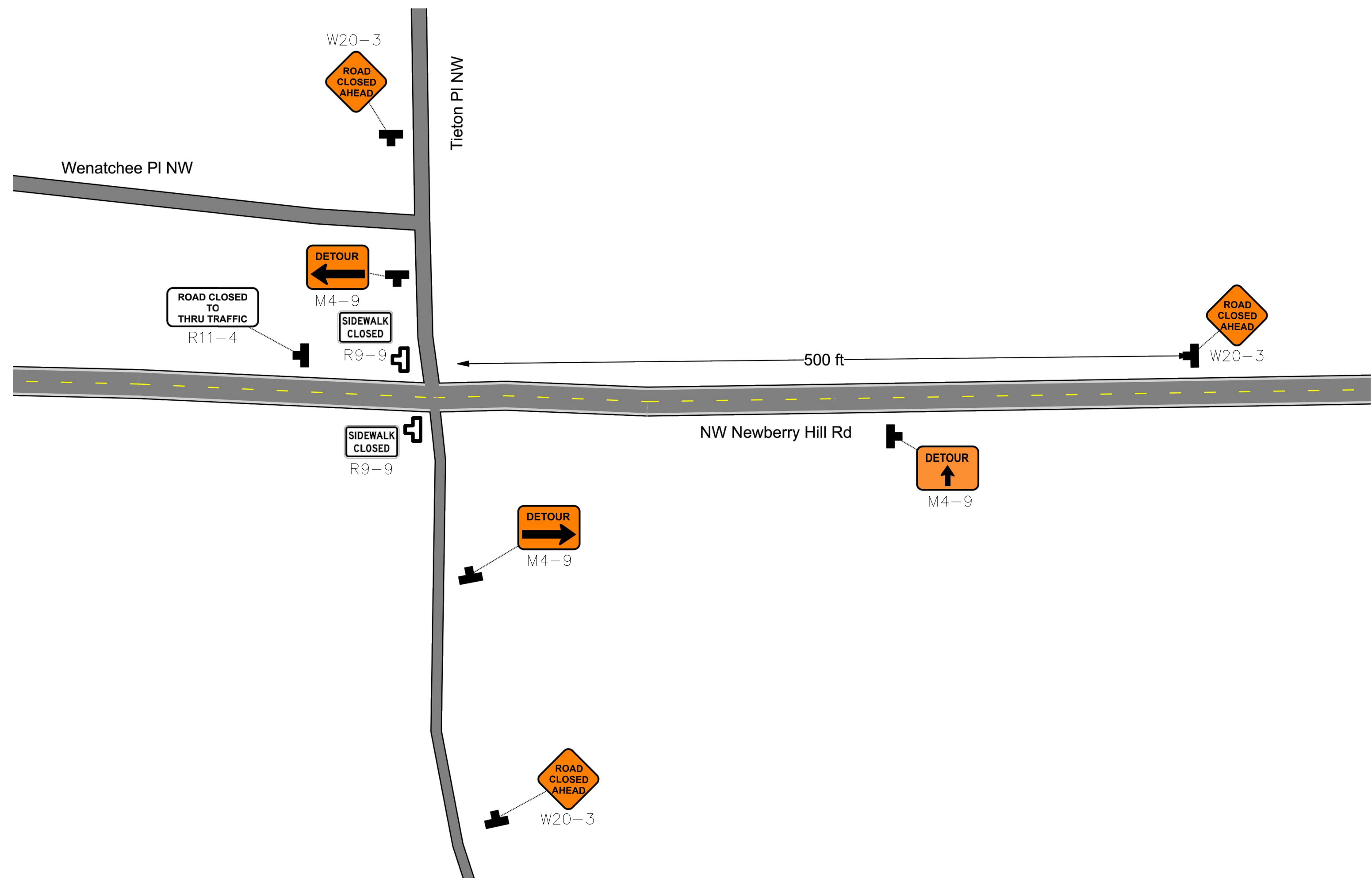
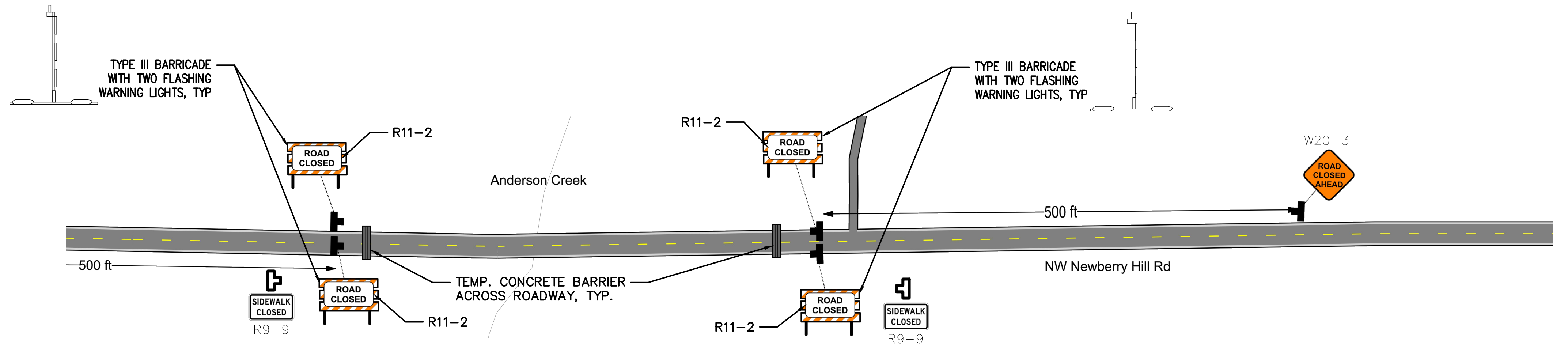
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| W20-3  | 36x36      |



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JESSICA S. SOWARD  
STATE OF WASHINGTON  
45272  
PROFESSIONAL ENGINEER  
11/3/23

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NEWBERRY HILL ROAD - CULVERT  
**DETOUR SIGNAGE DETAILS 2**  
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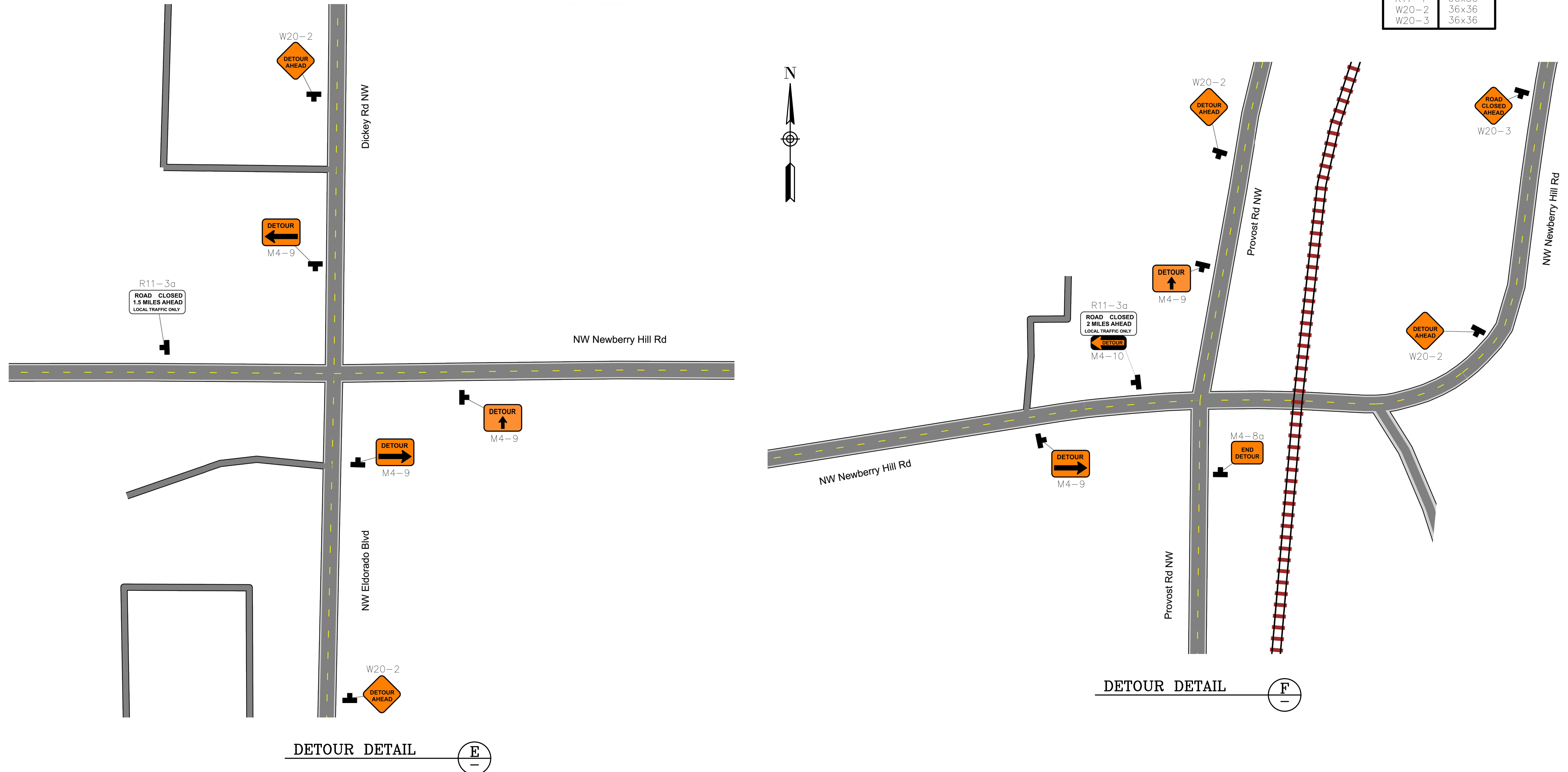
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LEGEND

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| W20-2  | 36x36      |
| W20-3  | 36x36      |



DETOUR DETAIL (E)

DETOUR DETAIL (F)

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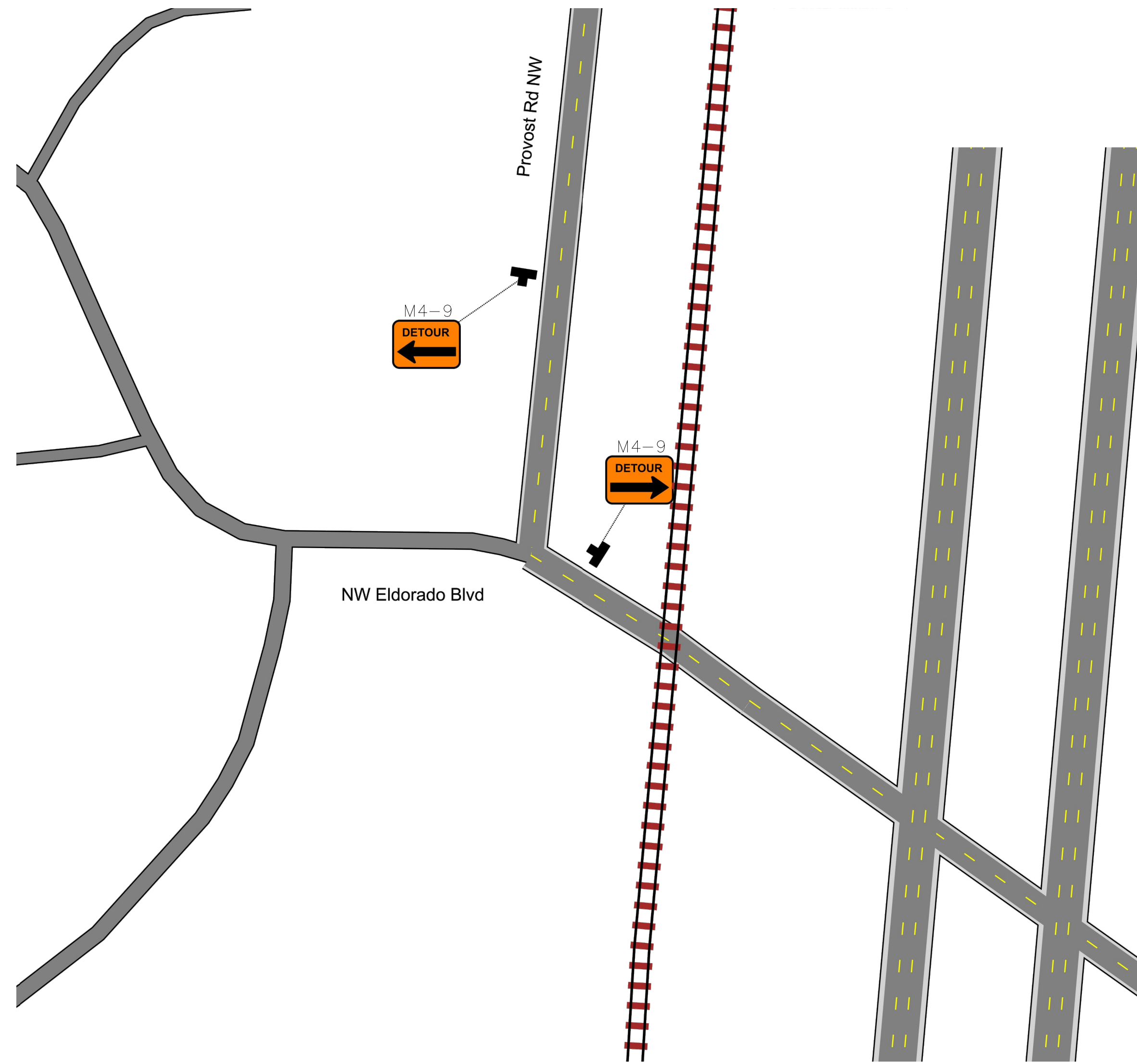
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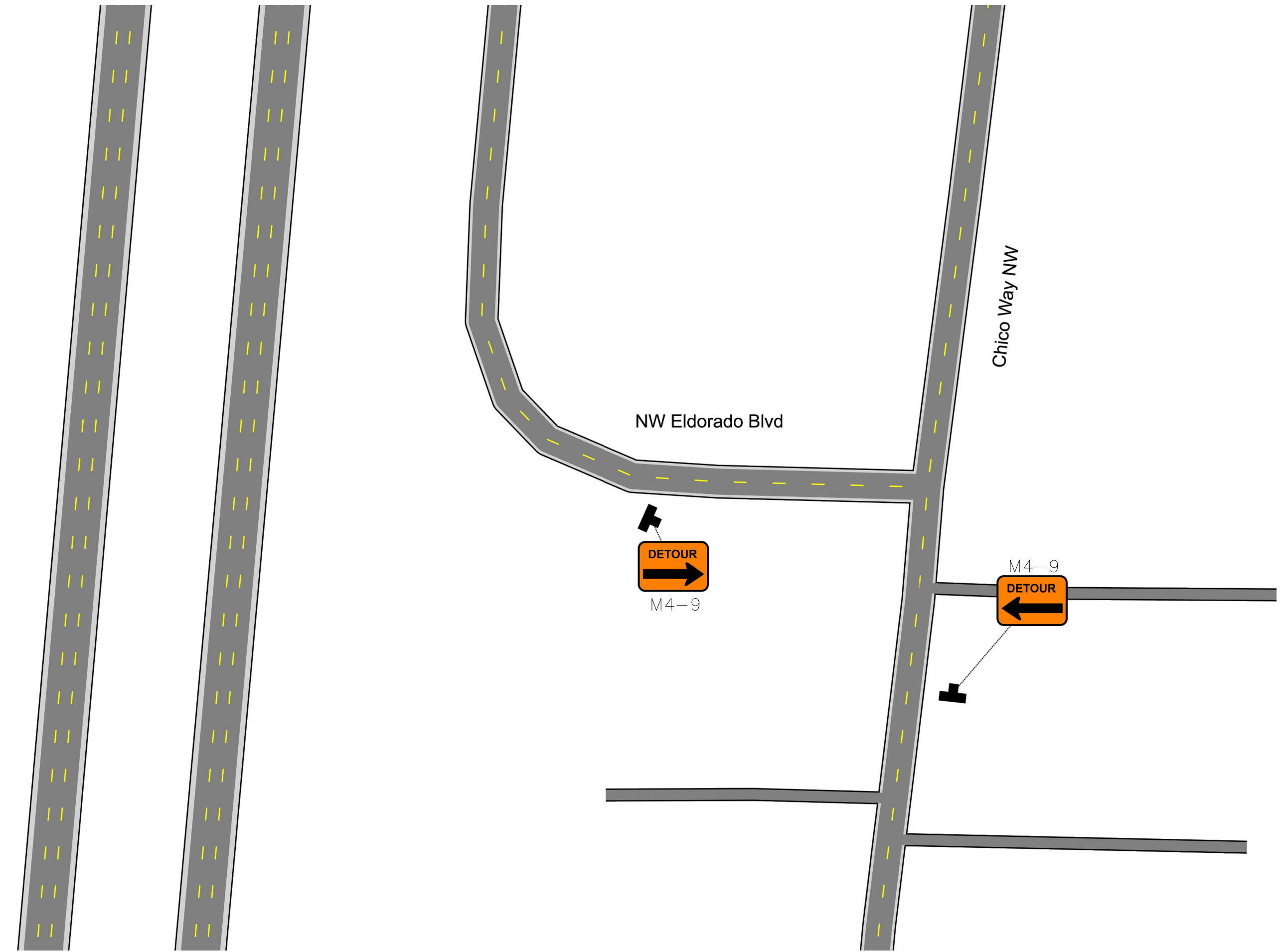
**LEGEND**

CONSTRUCTION SIGN CLASS A

| SIGN   | SIZE (in.) |
|--------|------------|
| M4-8a  | 24x18      |
| M4-9   | 30x24      |
| M4-10  | 48x18      |
| R11-2  | 48x30      |
| R11-3a | 60x30      |
| R11-4  | 60x30      |
| W20-2  | 36x36      |
| W20-3  | 36x36      |



DETOUR DETAIL G



DETOUR DETAIL H

BID SET

| REVISIONS |    |      |             |
|-----------|----|------|-------------|
| No.       | BY | DATE | DESCRIPTION |
|           |    |      |             |
|           |    |      |             |
|           |    |      |             |

**SARGENT**  
SARGENT ENGINEERS, INC.  
320 Ronlee Lane NW • Olympia, WA 98502  
Tel. 360 867-9284 • www.sargentengineers.com

|           |      |
|-----------|------|
| SURVEYED: | KCPW |
| DESIGNED: | CBK  |
| DRAWN:    | CBK  |
| CHECKED:  | JSS  |
| CRP No.   | 3684 |



**KITSAP COUNTY**  
DEPT. OF PUBLIC WORKS  
614 DIVISION STREET MS-26  
PORT ORCHARD, WA 98366  
TEL:(360) 337-5777 FAX:(360) 337-4867

NEWBERRY HILL ROAD - CULVERT  
**DETOUR SIGNAGE DETAILS 4**  
KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

|       |           |
|-------|-----------|
| DATE  | 11/3/2023 |
| SHEET | 21        |
| OF    | 23        |

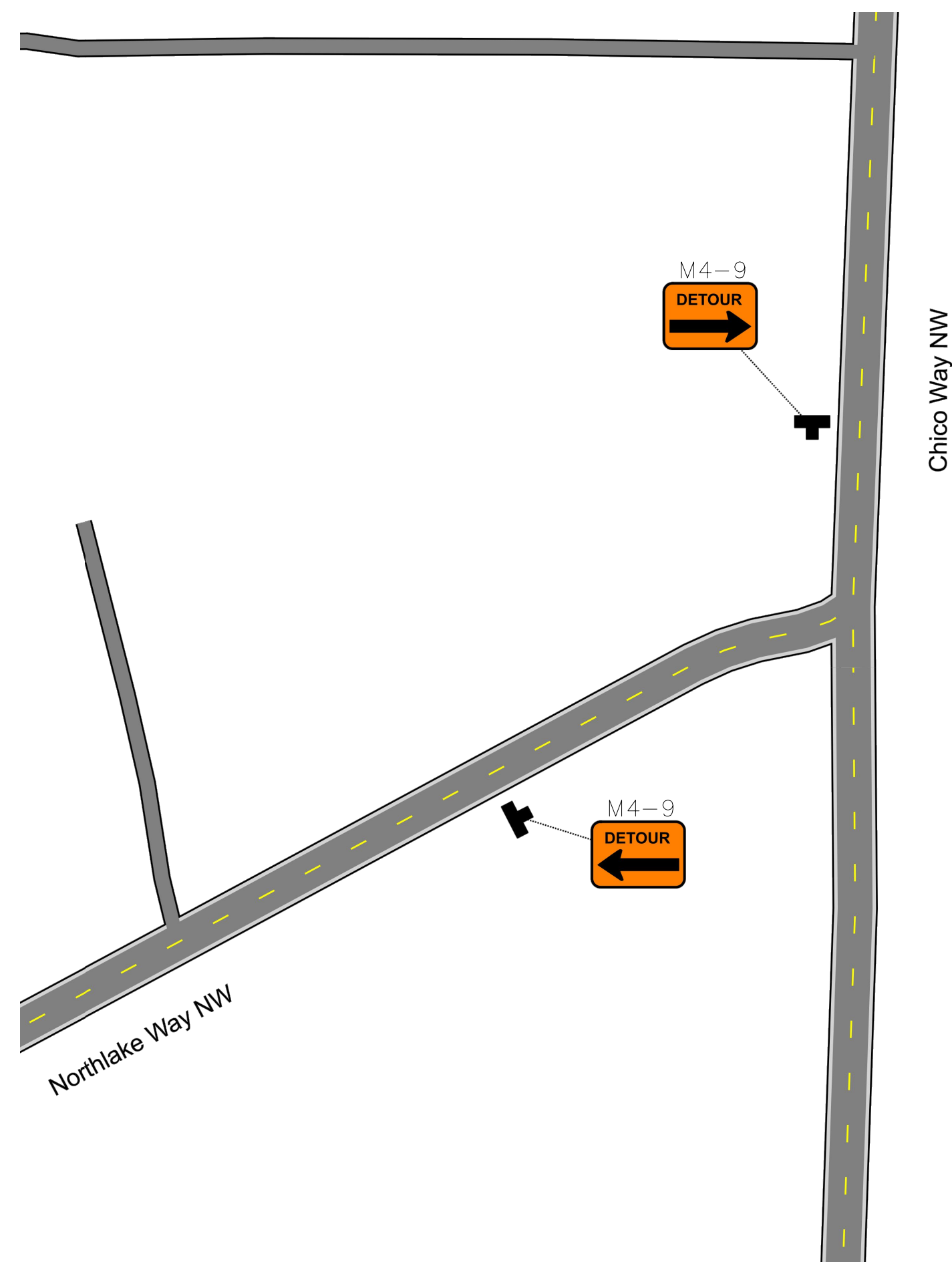
**DETOUR NOTES:**

1. DRAWINGS ARE NOT TO SCALE AND SIGN LOCATIONS ARE APPROXIMATE. SIGNS SHALL NOT OBSTRUCT VIEW OF EXISTING PERMANENT SIGNING.
2. ALL DEVICES SHALL MEET OR EXCEED MINIMUM REQUIREMENTS OF THE KITSAP COUNTY ROAD STANDARDS 2020 EDITION, FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION WITH REVISIONS, AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS (SS) 2023 EDITION.

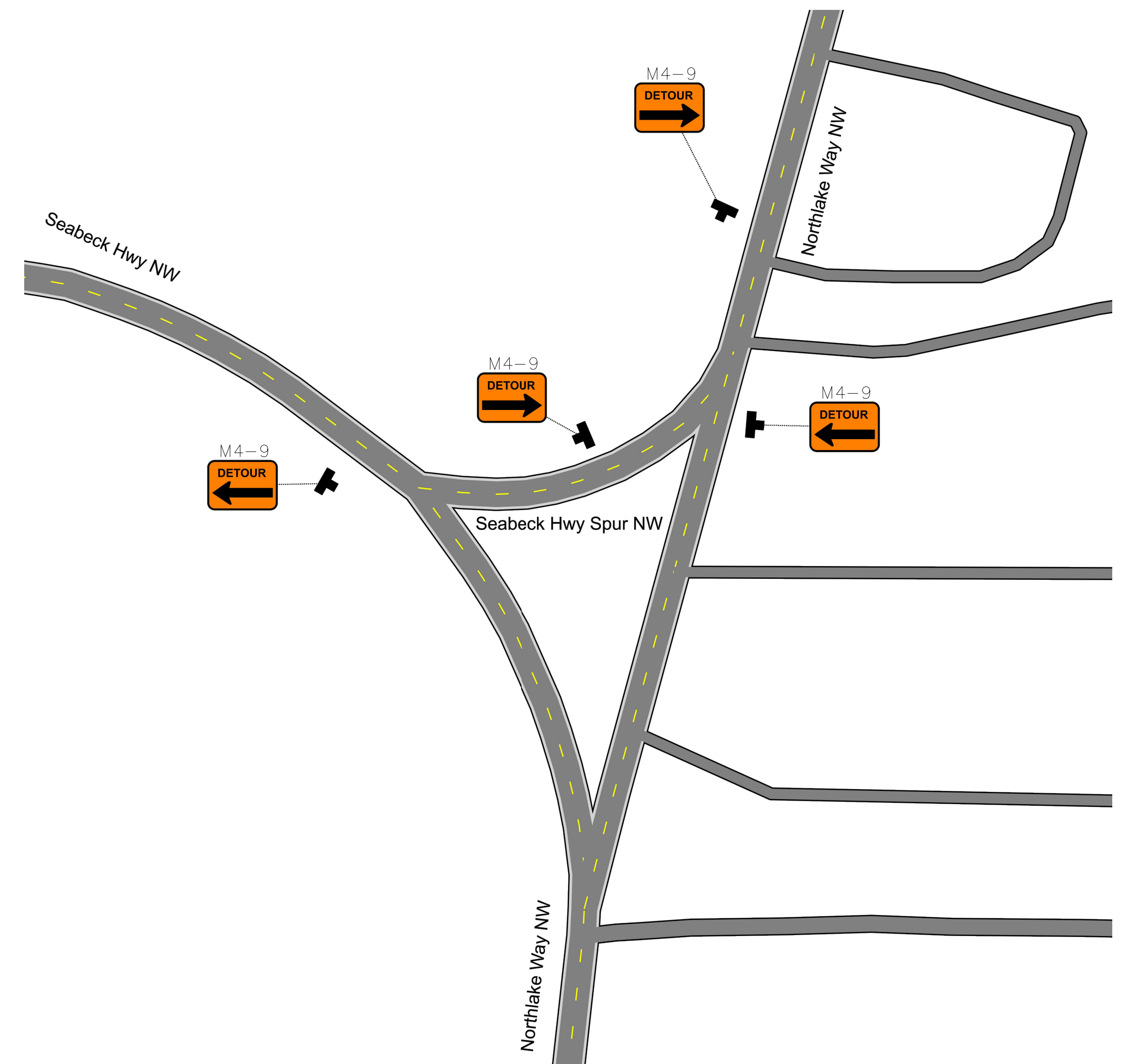
**LEGEND**

CONSTRUCTION SIGN CLASS A

| SIGN   | SIZE (in.) |
|--------|------------|
| M4-8a  | 24x18      |
| M4-9   | 30x24      |
| M4-10  | 48x18      |
| R11-2  | 48x30      |
| R11-3a | 60x30      |
| R11-4  | 60x30      |
| W20-2  | 36x36      |
| W20-3  | 36x36      |



DETOUR DETAIL J



DETOUR DETAIL K

BID SET

| REVISIONS |    |      |             |
|-----------|----|------|-------------|
| No.       | BY | DATE | DESCRIPTION |
|           |    |      |             |
|           |    |      |             |
|           |    |      |             |
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SURVEYED: KCPW  
DESIGNED: CBK  
DRAWN: CBK  
CHECKED: JSS  
CRP No. 3684



**KITSAP COUNTY**  
DEPT. OF PUBLIC WORKS  
614 DIVISION STREET MS-26  
PORT ORCHARD, WA 98366  
TEL: (360) 337-5777 FAX: (360) 337-4867

NEWBERRY HILL ROAD - CULVERT  
**DETOUR SIGNAGE DETAILS 5**  
KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

DATE  
11/3/2023  
SHEET  
22  
OF  
23

**DETOUR NOTES:**

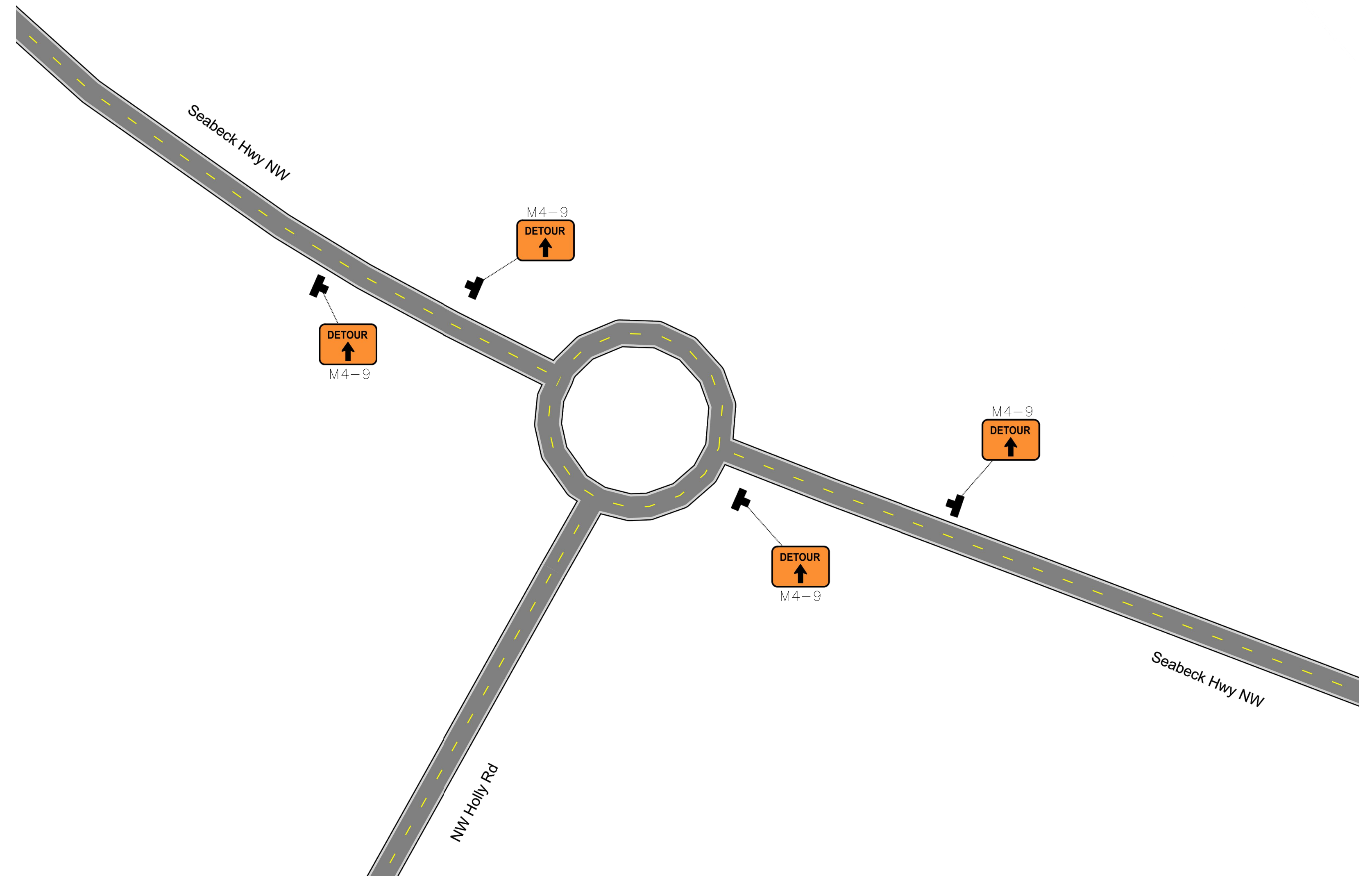
1. DRAWINGS ARE NOT TO SCALE AND SIGN LOCATIONS ARE APPROXIMATE. SIGNS SHALL NOT OBSTRUCT VIEW OF EXISTING PERMANENT SIGNING.
2. ALL DEVICES SHALL MEET OR EXCEED MINIMUM REQUIREMENTS OF THE KITSAP COUNTY ROAD STANDARDS 2020 EDITION, FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION WITH REVISIONS, AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS (SS) 2023 EDITION.

**LEGEND**

CONSTRUCTION SIGN CLASS A



| SIGN   | SIZE (in.) |
|--------|------------|
| M4-8a  | 24x18      |
| M4-9   | 30x24      |
| M4-10  | 48x18      |
| R11-2  | 48x30      |
| R11-3a | 60x30      |
| R11-4  | 60x30      |
| W20-2  | 36x36      |
| W20-3  | 36x36      |



DETOUR DETAIL M

BID SET

| REVISIONS |    |      |             |
|-----------|----|------|-------------|
| No.       | BY | DATE | DESCRIPTION |
|           |    |      |             |
|           |    |      |             |
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|           |      |
|-----------|------|
| SURVEYED: | KCPW |
| DESIGNED: | CBK  |
| DRAWN:    | CBK  |
| CHECKED:  | JSS  |
| CRP No.   | 3684 |

Professional Engineer Seal for Jessica S. Soward, State of Washington, License No. 45272, dated 11/3/23.

KITSAP COUNTY DEPT. OF PUBLIC WORKS  
614 DIVISION STREET MS-26  
PORT ORCHARD, WA 98366  
TEL:(360) 337-5777 FAX:(360) 337-4867

NEWBERRY HILL ROAD - CULVERT  
**DETOUR SIGNAGE DETAILS 6**  
KITSAP COUNTY, WASHINGTON  
SECTION 23 & 26, TOWNSHIP 25 NORTH, RANGE 1 WEST, W.M.

|       |           |
|-------|-----------|
| DATE  | 11/3/2023 |
| SHEET | 23        |
| OF    | 23        |