# COAL CREEK TRUNK UPGRADE

## CONTRACT: 1123624

**PERMIT SET**

**DECEMBER 2020**

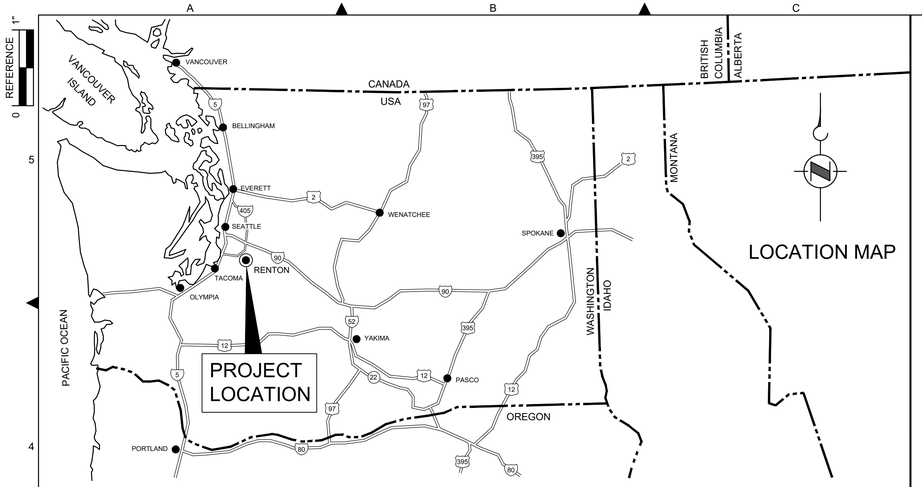
**PREPARED BY: CH2M HILL, A WHOLLY OWNED SUBSIDIARY OF JACOBS ENGINEERING GROUP, INC**
**1110 112TH AVE NE**
**BELLEVUE, WA 98004**

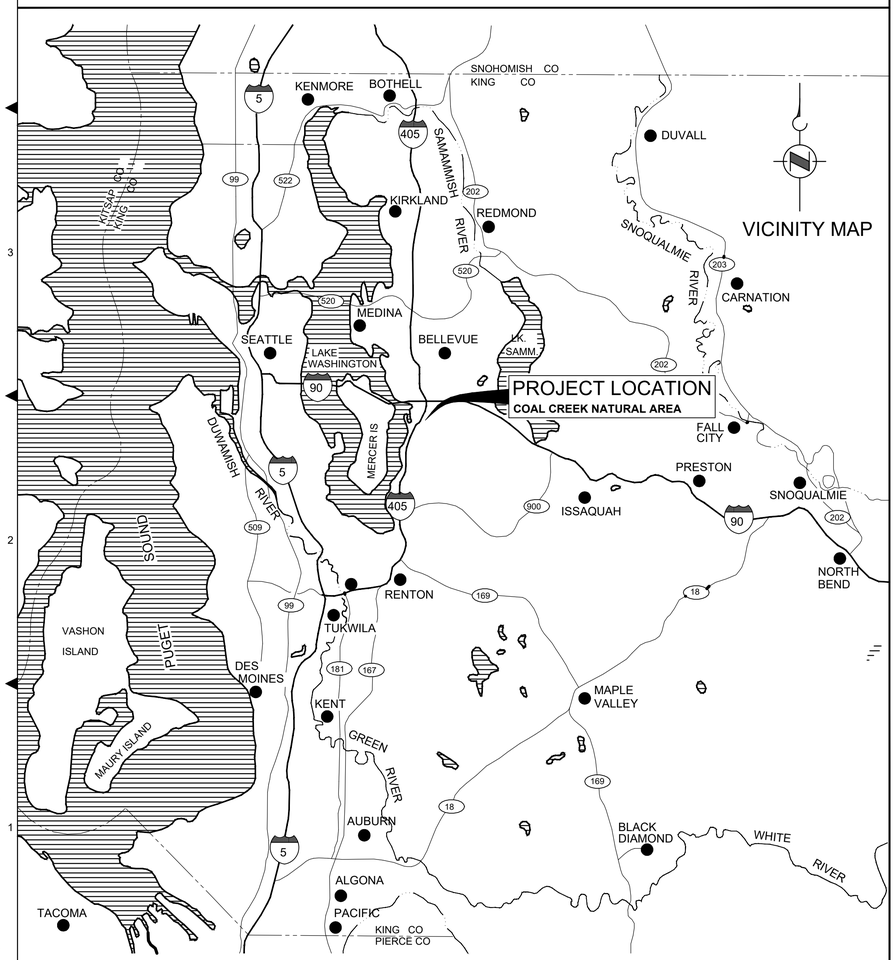
**Volume X**
**Design Drawings**

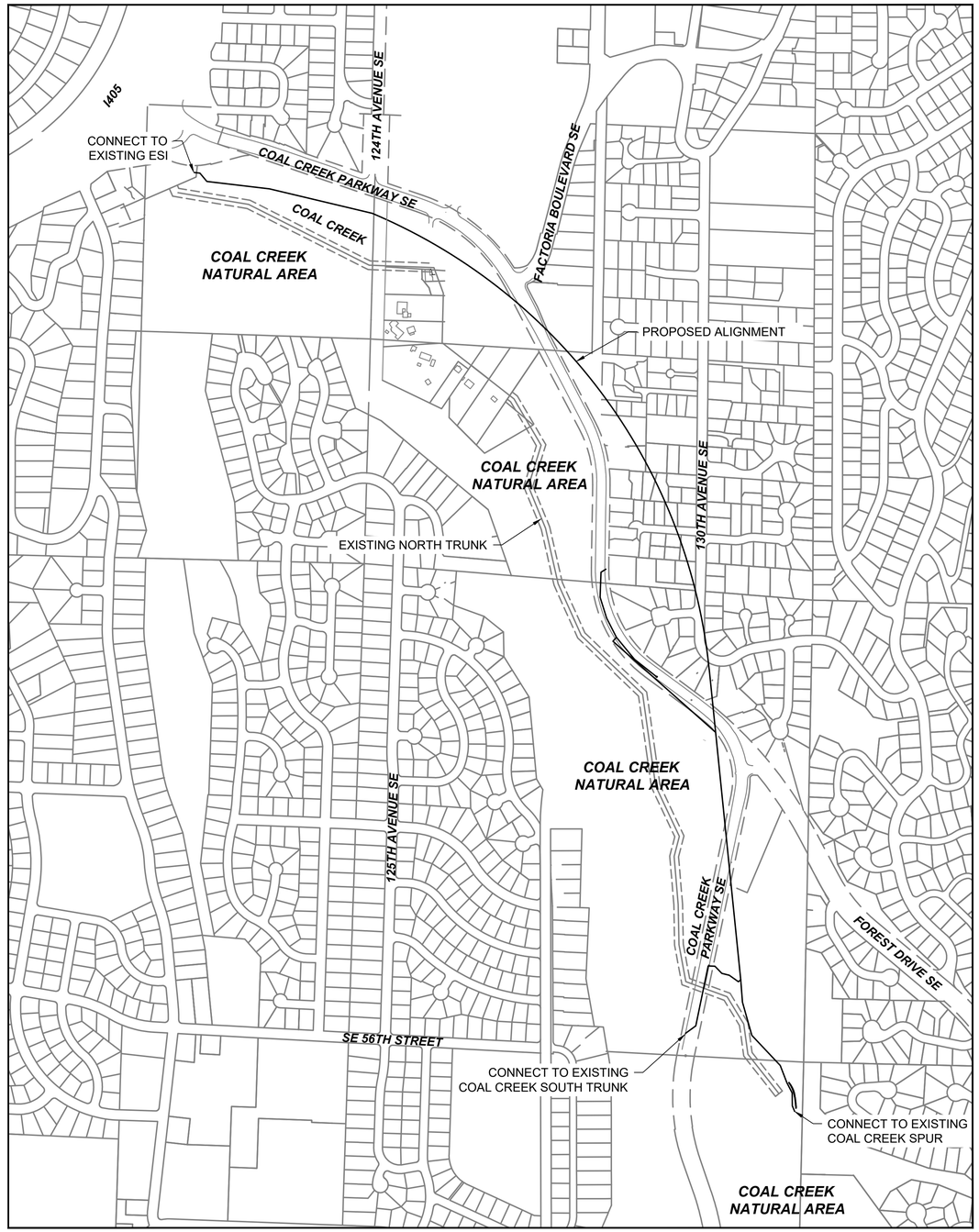
Brown AND Caldwell
AND ASSOCIATED FIRMS

**THIS SET CONTAINS ADDITIONAL INFORMATION OVERLAID ON THE 60-PERCENT SUBMITTAL, SPECIFIC TO THE SITE PLAN REQUIREMENTS FOR THE CITY OF BELLEVUE LAND USE REVIEW.**

KING COUNTY
**Department of Natural Resources and Parks**
**Wastewater Treatment Division**




SITE MAP
SCALE: 1" = 400'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
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**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# VICINITY AND LOCATION MAPS

DATE: DECEMBER 2020
DRAWING NO: CCT900-G-00001
SHT NO X / TOTAL # | REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Dec 04, 2020-09:38:00am By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg
IMAGES:

# DRAWING INDEX

## GENERAL

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|---|---|---|
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| 2 | CCT900-G-00001 | VICINITY AND LOCATION MAPS |
| 3 | CCT900-G-00002 | DRAWING INDEX |

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| 5 | CCT900-C-00002 | GENERAL NOTES AND DESIGN DATA |
| 6 | CCT900-C-00003 | SURVEY CONTROL AND EASEMENT NOTES |
| 7 | CCT900-C-00004 | TESC NOTES |
| NEW | CCT900-C-00005 | KC TRUNK LINE EASEMENTS - COAL CREEK AREA |
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| 30 | CCT900-C-10040 | MICROTUNNEL PLAN 1, STA 400+00 TO STA 405+00 |
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| 87 | NOT IN DRAWING SET | |
| 88 | NOT IN DRAWING SET | |
| 89 | NOT IN DRAWING SET | |
| 90 | NOT IN DRAWING SET | |
| 91 | NOT IN DRAWING SET | |
| 92 | NOT IN DRAWING SET | |
| 93 | CCT900-C-10201 | ESI ACCESS ROAD TRAFFIC CONTROL PLAN |
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| 129 | CCT900-C-12032 | TREE PROTECTIONS PLAN AT BELLEVUE OPEN CUT 3 |
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| 134 | CCT900-C-20160 | CREEK RESTORATION PROFILES 1 |
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| 136 | CCT900-C-30161 | CREEK RESTORATION SECTIONS 1 |
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| 143 | CCT900-C-40052 | PIPE DETAILS 3 |
| 144 | CCT900-C-40053 | PIPE DETAILS 4 |
| 145 | CCT900-C-40054 | MAINTENANCE HOLE DETAILS 1 |
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| 153 | NOT IN DRAWING SET | |
| 154 | CCT900-C-40150 | STRIPING AND SIGNING DETAILS |
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| 164 | CCT900-C-42000 | TREE PROTECTION DETAILS |
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| 166 | CCT900-C-52001 | TREE INVENTORY TABLE 2 |
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| 172 | CCT900-C-52007 | TREE INVENTORY TABLE 8 |
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| 180 | CCT900-L-11006 | LANDSCAPE PLAN 6 |
| 181 | CCT900-L-11007 | LANDSCAPE PLAN 7 |
| 182 | CCT900-L-11008 | LANDSCAPE PLAN 8 |
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| 185 | CCT900-L-21001 | ACCESSIBLE TRAIL AT SPUR PROFILE |
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## LANDSCAPING DETAILS

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| 192 | CCT900-S-40070 | SPUR WALL SECTIONS AND DETAILS 1 |
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| 194 | CCT900-S-40072 | SPUR WALL SECTIONS AND DETAILS 3 |
| 195 | CCT900-S-40073 | SPUR WALL DETAILS AND SOIL NAIL SCHEDULE |
| 196 | CCT900-S-40074 | CABLE FENCE DETAILS |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: NONE |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
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King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

**DRAWING INDEX**

DATE: DECEMBER 2020
DRAWING NO: **CCT900-G-00002**
SHT NO X / TOTAL # | REV NO:

REFERENCE 0 1"

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Nov 19, 2020-12:54:44pm By sherryae
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

# MATERIAL SYMBOLS

- CAST-IN-PLACE CONCRETE
- STRUCTURAL CONCRETE
- PRECAST CONCRETE IN SECTION
- MORTAR, GROUT, SAND OR PLASTER
- QUARRY SPALLS OR FOUNDATION
- NATURAL GROUND OR SUBGRADE
- PERVIOUS CONCRETE PAVEMENT IN SECTION
- OPENING OR DEPRESSION IN SLAB OR WALL
- SLIDE GATE OPENING AND DESIGNATION (2)
- CRUSHED GRAVEL
- CONTROL DENSITY FILL
- EXISTING PAVEMENT
- CEMENT CONCRETE PAVEMENT
- HOT MIX ASPHALT PAVEMENT
- CEMENT CONCRETE SIDEWALK
- HOT MIX ASPHALT SIDEWALK
- HOT MIX ASPHALT PAVEMENT IN SECTION
- PIPE BEDDING
- LANDSCAPE AREA
- WETLAND
- WETLAND RESTORATION
- GRASS-LINED CHANNEL
- EROSION CONTROL SEEDING

# DEMOLITION SYMBOLS

- EXISTING ASPHALT TO BE REMOVED
- EXISTING CONCRETE TO BE REMOVED
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING GRAVEL/ VEGETATION/LANDSCAPING TO BE REMOVED
- EXISTING STRUCTURE ABANDON IN PLACE
- ABANDON & PLUG PIPE
- ABANDON/ DECOMMISION PIPE
- REMOVE PIPE

# TESC SYMBOLS

- CATCH BASIN INSERT
- TREE REMOVAL
- TREE PROTECTION
- TEMPORARY JERSEY BARRIER
- COMPOST SOCK
- SF — SF — TEMPORARY SILT FENCE
- HVF — HVF — HIGH VISIBILITY FENCE
- CW — CW — STRAW WATTLE EROSION PROTECTION
- CLEARING AND GRUBBING LIMITS

# CIVIL LINETYPES

- CENTERLINE
- MATCHLINE
- INVISIBLE OR HIDDEN LINE
- BREAKLINE
- GRID LINE (A)
- BUILDING LIMITS
- ROCKERY
- BLOCK RETAINING WALL
- EXISTING CONTOUR (125)
- PROPOSED CONTOURS (125)
- EXISTING EASEMENT
- TEMPORARY CONSTRUCTION EASEMENT (TCE)
- PERMANENT EASEMENT (PE)
- PROPERTY LINE
- RIGHT OF WAY
- EXISTING GRADE
- EXISTING DITCH
- CHAIN LINK FENCE
- ARCHITECTURAL FENCE
- GUARDRAIL
- HANDRAIL
- SCREENING WALL
- SAWCUT
- EDGE OF GRAVEL ROAD
- CURB AND GUTTER
- EDGE OF ASPHALT OR CONCRETE
- EXTRUDED OR TRAFFIC CURB
- XX% DOWN SLOPE ARROW AND VALUE
- 57+00 ALIGNMENT STATIONING
- RAILROAD
- TOP OF CREEK BANK
- OHWM ORDINARY HIGH WATER MARK
- TRIBUTARIES
- SAWCUT
- WORK AREA BOUNDARY
- STAGING AREA
- CRITICAL AREAS

# CIVIL SYMBOLS

SYMBOLS SHOWING EXISTING EQUIPMENT SHALL BE SCREENED BACK AND ANY SOLID FILLED HATCH REMOVED

- TYPE 1 CATCH BASIN
- TYPE 2 CATCH BASIN
- MAINTENANCE HOLE
- BOLLARD
- SIGNS AND/OR POSTS
- DECIDUOUS TREE
- CONIFEROUS TREE
- BRUSH OR TREE LINE
- GTx SOIL BORING & DESIGNATION
- MONITORING WELL
- MONUMENT IN CASE
- HORIZONTAL AND VERTICAL CONTROL POINT
- SECTION CORNER
- QUARTER SECTION CORNER
- TRAFFIC DIRECTION ARROW
- TRAFFIC TURN ARROW
- CENTERLINE
- PROPERTY LINE
- HUB AND TACK
- REBAR AND CAP #XXXX
- XXX.X EXISTING GRADE ELEVATION
- SLOPE
- XXX EASEMENT NO.
- MAILBOX CLUSTER
- XXX.XX FINISH GRADE ELEVATION
- XXX.XX TOP OF CURB (OR WALL) ELEVATION
- XXX.XX BOTTOM OF CURB (OR WALL) ELEVATION
- W.S. WATER SURFACE
- WATER SURFACE LEVEL
- UP UTILITY POLE
- UP UTILITY POLE WITH ANCHOR
- ANCHOR
- WOOD POWER POLE W/ LUMINAIRE
- LUMINAIRE
- METAL LAMP POST
- POWER BOX
- HH HANDHOLE
- POWER OR UTILTY VAULT
- POWER TRANSFORMER
- ELECTRICAL MAINTENANCE HOLE
- ELECTRICAL BOX
- 1 2 SLOPE INDICATOR
- PRV PRESSURE REDUCING VALVE
- LDS CHEMICAL LEAK DETECTION STATION
- V VALVE BOX
- DCVA DETECTOR CHECK VALVE ASSEMBLY (DCVA)
- RPBA REVERSE PRESSURE BACKFLOW ASSEMBLY
- CP CORROSION PROTECTION TEST STATION

# YARD PIPING LEGEND

PIPE SIZE — #" X - XX — PIPE MATERIAL AND CLASS (WHERE APPROPRIATE)

PIPE SYSTEM, SEE PIPING SYMBOLS IN SPECIFICATION SECTION 40 05 01

- PIPING < 12" DIAMETER
- PIPING≧ 12" DIAMETER
- NON-FREEZE HOSE VALVE (V-X) X = NO. IN SPECIFICATIONS
- NON-FREEZE HOSE VALVE WITH HOSE RACK (V-X) X = NO. IN SPECIFICATIONS
- POST INDICATOR VALVE
- GATE VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- FLEXIBLE COUPLING
- 90° ELBOW UP
- 90° ELBOW DOWN
- BEND < 90° UP
- BEND < 90° DOWN
- CONCENTRIC REDUCER
- CAP OR PLUG
- CLEANOUT
- THRUST BLOCK
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- WATER METER
- CHECK VALVE
- IRRV IRRIGATION CONTROL VALVE
- PRESSURE RELIEF VALVE
- GM GAS METER
- GASV GAS VALVE
- CULVERT
- GAS — GAS GAS LINE

# ABBREVIATIONS

| | |
|---|---|
| AP | ANGLE POINT |
| CB | CATCH BASIN |
| CDF | CONTROLLED DENSITY FILL |
| CL | CENTERLINE |
| COB | CITY OF BELLEVUE |
| COMM | COMMUNICATION |
| CONC | CONCRETE |
| CSBC | CRUSHED SURFACING BASE COURSE |
| CSCT | CRUSHED SURFACING TOP COURSE |
| DIA | DIAMETER |
| DWG | DRAWING |
| E | EAST |
| ELEV | ELEVATION |
| ESI | EASTSIDE INTERCEPTOR |
| EX | EXISTING |
| FESL | FABRIC-ENCAPSULATED SOIL LIFT |
| FT | FEET |
| GIS | GEOGRAPHIC INFORMATION SYSTEM |
| HDPE | HIGH DENSITY POLYETHYLENE (PIPE) |
| HMA | HOT MIX ASPHALT |
| IE | INVERT ELEVATION |
| IN | INCH |
| INV | INVERT |
| L | LENGTH |
| LF | LINEAR FEET |
| LIDAR | LIGHT INTENSITY DATA AND RANGING |
| LWM | LOW WATER MARK |
| MAX | MAXIMUM |
| MH | MAINTENANCE HOLE |
| MON | MONUMENT |
| MIN | MINIMUM |
| N | NORTH |
| NAD | NORTH AMERICAN DATUM OF 1983 |
| NAVD | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| NE | NORTHEAST |
| NTS | NOT TO SCALE |
| NW | NORTHWEST |
| OHWM | ORDINARY HIGH WATER MARK |
| PC | POINT OF CURVATURE |
| PSE | PUGET SOUND ENERGY |
| PT | POINT OF TANGENCY |
| PVC | POLYVINYL CHLORIDE |
| PVI | POINT OF VERTICAL INTERSECTION |
| R | RADIUS |
| S | SLOPE |
| SAN | SANITARY SEWER |
| SD | STORM DRAIN |
| SE | SOUTHEAST |
| SPU | SEATTLE PUBLIC UTILITIES |
| SS | SANITARY SEWER |
| STA | STATION |
| STD | STANDARD |
| SW | SOUTHWEST |
| TBD | TO BE DETERMINED |
| TYP | TYPICAL |
| W | WEST |
| WAT | WATER |
| WSE | WATER SURFACE ELEVATION |
| xH:xV | HORIZONTAL TO VERTICAL SCALE |
| YR | YEAR |
| Δ | DELTA |
| " | INCH |
| ' | FEET |
| < | LESS THAN |

# PERMIT SYMBOLS

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- ESTIMATED WETLAND
- COMBINED WETLAND SETBACK
- 100-YR MODELED 100-YEAR FLOODPLAIN
- 100-YR 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- SINGLE-FAMILY TRANSITION AREA
- DESIGNATED CRITICAL HABITAT AREA
- OHWM ESTIMATED OHWM
- OHWM DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER

# SETTLEMENT MONITORING POINTS

- SSP STRUCTURE SETTLEMENT POINT
- SP SURFACE SETTLEMENT POINT
- NSSP NEAR SURFACE SETTLEMENT PIPE
- VMS VIBRATION MONITORING STATION
- SMP SLOPE MONITORING POINT
- USP UTILITY SETTLEMENT POINT

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DECEMBER 2020

WILLIAM JACOBSEN — STATE OF WASHINGTON — 21615 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: NONE |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CIVIL STANDARD SYMBOLS, LEGEND AND ABBREVIATIONS

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-00001
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Nov 24, 2020-09:24:18am By sherryae
XREFS: KCWTD-Dsize-TB-Border.dwg; Critical_Areas_Basemap.dwg
IMAGES:

REFERENCE 0 1"

# GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND PROTECTION OF ANY EXISTING UTILITIES AND POTHOLING FOR ALL UTILITY CROSSINGS AT EXCAVATION LOCATIONS SUFFICIENTLY IN ADVANCE TO AVOID DELAYS IN THE EVENT CONFLICTS ARE DISCOVERED. STORM SEWER LINES, POTABLE WATER LINES, POWER, TELEPHONE, CABLE TV AND ALL OTHER LINES IN THE WORK AREA SHALL REMAIN OPERATIONAL AND FUNCTIONING UNLESS OTHERWISE NOTED.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL LAWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPHOLDING ENVIRONMENTAL PERMIT CONDITIONS.

3. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW OSHA REGULATIONS FOR ALL SITE OPERATIONS INCLUDING WHEN UNKNOWN UTILITIES ARE ENCOUNTERED. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING THE SITE IN A SAFE AND EXPEDITIOUS MANNER AND CHARACTERIZING ANY MATERIAL CONTAINED WITHIN THE UTILITY. ONCE CHARACTERIZED, THE CONTRACTOR SHALL MEET WITH THE OWNER AND CONSTRUCTION MANAGER TO IDENTIFY THE APPROPRIATE MANAGEMENT TECHNIQUE FOR THE SITE CONDITIONS.

4. OVERHEAD ELECTRICAL POWER, TELEPHONE, CABLE TV, AND OTHER OVERHEAD LINES ARE GENERALLY NOT SHOWN. CONTRACTOR SHALL DETERMINE THE EXTENT OF HAZARDS OR IMPACTS ON CONSTRUCTION ACTIVITIES CREATED BY OVERHEAD OR UNDERGROUND ELECTRICAL POWER, TELEPHONE, CABLE TV, AND OTHER LINES IN ALL AREAS AND FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW AND REGULATIONS. CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS AND REMEDIAL MEASURES THAT MAY BE REQUIRED TO PROTECT PERSONS AND PROPERTY AND TO AVOID DISRUPTION OF SERVICE. CONTACT AND COORDINATE WITH EACH UTILITY PURVEYOR TO PERFORM NECESSARY UTILITY RELOCATIONS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PEDESTRIAN AND MOTOR VEHICLE TRAFFIC MAINTENANCE, BARRICADES, WARNING SIGNS, DELINEATORS, ETC. IN ACCORDANCE WITH THE CURRENT MUTCD AND APPROVED TRAFFIC CONTROL PLANS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, RELOCATION, AND PROTECTION OF EXISTING STREET SIGNS, LIGHTS, CONTROL WIRING AND OTHER APPURTENANCES AS NEEDED DURING CONSTRUCTION. TEMPORARILY RELOCATED SIGNS AND APPURTENANCES SHALL BE RESTORED TO PRECONSTRUCTION LOCATIONS IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED.

7. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND INSTALLING APPROPRIATE DEWATERING SYSTEMS IF NEEDED TO COMPLETE WORK. THE DEWATERING PLAN SHALL INCLUDE PROVISIONS FOR DISPOSAL OF THE COLLECTED WATER IN ACCORDANCE WITH ENVIRONMENTAL CONTROLS SPECIFIED. WATER SHALL NOT BE DISCHARGED TO SURROUNDING STEEP SLOPES, WETLANDS, CONVEYANCE DITCHES, AND STREAMS, UNLESS SUITABLY TREATED. SEE STREAM RESTORATION DRAWINGS FOR DEWATER OF COAL CREEK.

9. ALL MAINTENANCE HOLES NOT WITHIN LIMITS OF PAVEMENT SHALL HAVE A CONCRETE COLLAR PER DETAIL E/CCT900-C-40055.

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DECEMBER 2020

STATE OF WASHINGTON · WILLIAM JACOBSEN · 46074 · REGISTERED PROFESSIONAL ENGINEER

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

**GENERAL NOTES**

DATE: DECEMBER 2020
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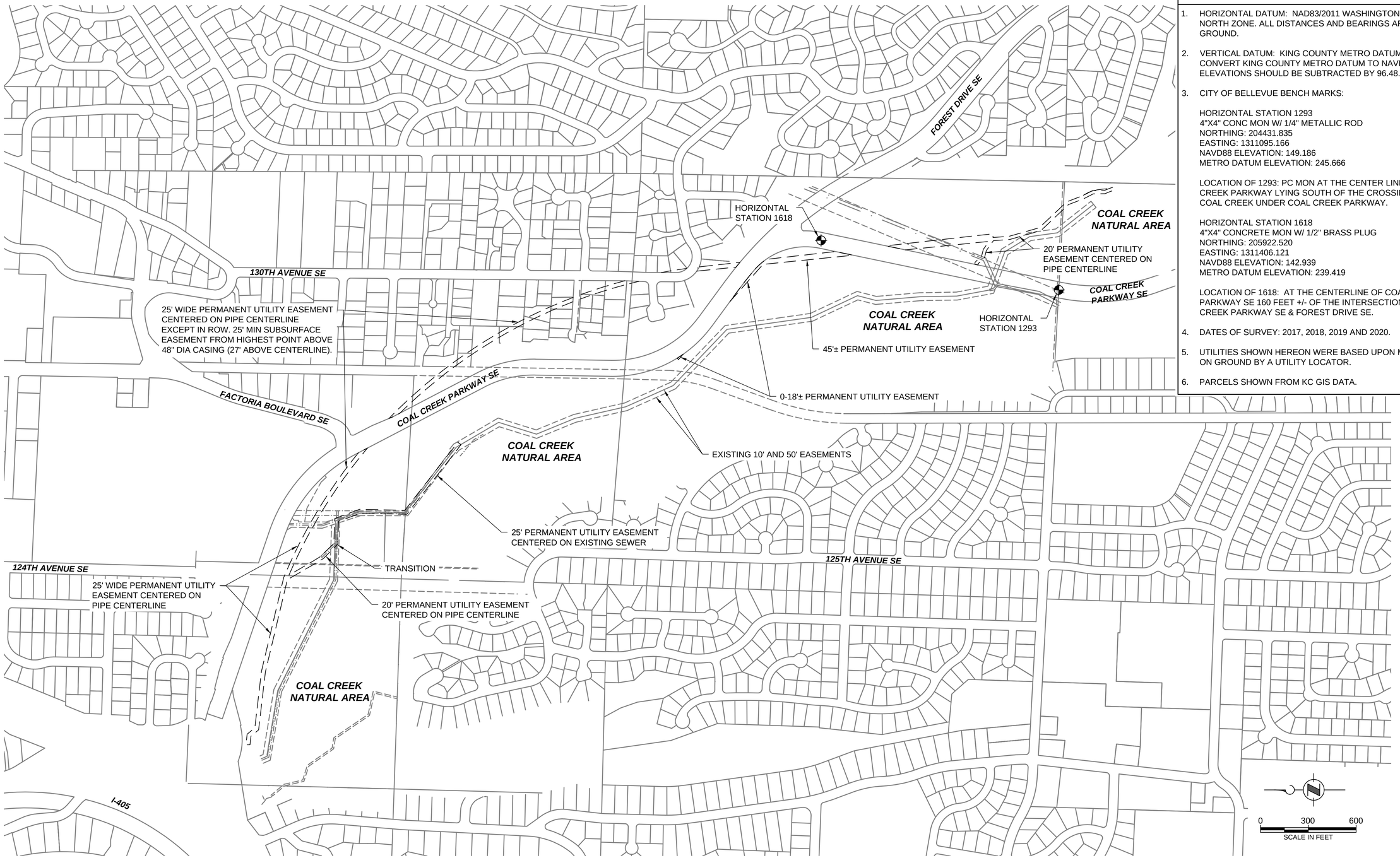
PLOTTED: Jul 29, 2020-09:53:11am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:




## SURVEY NOTES:

1. HORIZONTAL DATUM: NAD83/2011 WASHINGTON STATE NORTH ZONE. ALL DISTANCES AND BEARINGS ARE IN GROUND.
2. VERTICAL DATUM: KING COUNTY METRO DATUM. TO CONVERT KING COUNTY METRO DATUM TO NAVD88 ELEVATIONS SHOULD BE SUBTRACTED BY 96.48.
3. CITY OF BELLEVUE BENCH MARKS:

   HORIZONTAL STATION 1293
   4"X4" CONC MON W/ 1/4" METALLIC ROD
   NORTHING: 204431.835
   EASTING: 1311095.166
   NAVD88 ELEVATION: 149.186
   METRO DATUM ELEVATION: 245.666

   LOCATION OF 1293: PC MON AT THE CENTER LINE OF COAL CREEK PARKWAY LYING SOUTH OF THE CROSSING OF COAL CREEK UNDER COAL CREEK PARKWAY.

   HORIZONTAL STATION 1618
   4"X4" CONCRETE MON W/ 1/2" BRASS PLUG
   NORTHING: 205922.520
   EASTING: 1311406.121
   NAVD88 ELEVATION: 142.939
   METRO DATUM ELEVATION: 239.419

   LOCATION OF 1618: AT THE CENTERLINE OF COAL CREEK PARKWAY SE 160 FEET +/- OF THE INTERSECTION OF COAL CREEK PARKWAY SE & FOREST DRIVE SE.
4. DATES OF SURVEY: 2017, 2018, 2019 AND 2020.
5. UTILITIES SHOWN HEREON WERE BASED UPON MARKINGS ON GROUND BY A UTILITY LOCATOR.
6. PARCELS SHOWN FROM KC GIS DATA.

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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DECEMBER 2020

STATE OF WASHINGTON · WILLIAM JACOBSEN · 46074 · REGISTERED PROFESSIONAL ENGINEER

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURVEY CONTROL AND EASEMENT NOTES

DATE: DECEMBER 2020
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SHT NO / TOTAL: #
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BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-09:54:48am By kinseym2
XREFS: 900-1123624Alignments.dwg; CCEasementOutline_01222019.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; 116144-C3D 2017.dwg
IMAGES:

## PROJECT SITE
## TEMPORARY EROSION AND SEDIMENT CONTROL STANDARD NOTES:

1. THE CONTRACTOR SHALL MONITOR, UPDATE, AND MAINTAIN THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITY BASED ON THEIR WORK PLAN FOR EXECUTING AND SEQUENCING THE CONTRACT WORK. THE SWPPP AND THE TESC PLANS ARE THE MINIMUM TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) MEASURES, ADDITIONAL MEASURES SHALL BE EMPLOYED BY THE CONTRACTOR BASED ON THEIR WORKPLAN AND THE WEATHER.

2. APPROVAL OF THE TESC SYSTEMS DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).

3. THE IMPLEMENTATION OF THESE TESC SYSTEMS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC SYSTEMS IS THE RESPONSIBILITY OF THE APPLICANT/TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

4. THE BOUNDARIES OF THE CLEARING LIMITS SHALL EXTEND A MAXIMUM OF 5-FT EITHER SIDE OF THE NEW WORK SHOWN ON THESE DRAWINGS UNLESS OTHERWISE NOTED. CLEARING WITHIN THE BOUNDARIES OF WETLANDS IS NOT ALLOWED UNLESS THE WETLANDS ARE INCLUDED WITHIN THE LIMITS OF WORK ON THESE DRAWINGS. THE CLEARING BOUNDARIES SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/TESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.

5. THE TESC SYSTEMS SHOWN ON THESE DRAWINGS MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

6. THE TESC SYSTEMS SHOWN ON THESE DRAWINGS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC SYSTEMS SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES OR SILT FENCES, ETC.).

7. THE TESC SYSTEMS SHALL BE INSPECTED WEEKLY BY THE APPLICANT/TESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE TESC SYSTEMS DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).

8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR MAXIMUM TWO DAYS DURING THE WET SEASON (OCT. 1 TO APRIL 30) OR MAXIMUM SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT. 30) SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G. SEEDING, MULCHING, PLASTIC COVERING, ETC.).

9. THE TESC SYSTEMS ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN TWENTY-FOUR (24) HOURS FOLLOWING A STORM EVENT.

10. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

11. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. WASH WATER SHALL BE COLLECTED AND DISCHARGED AT THE PORT ANGELES WASTEWATER TREATMENT PLANT.

12. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A THICKNESS OF 3 INCHES.

13. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER. THE CONSTRUCTION MANAGER CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

14. STREETS SHALL BE SWEPT AND KEPT CLEAN THROUGHOUT CONSTRUCTION.

15. SEE CCT900-C-40001 FOR TYPICAL DETAILS OF TESC MEASURES.

## WET SEASON REQUIREMENTS (OCTOBER 1 TO APRIL 30):

1. NO SOIL MAY REMAIN EXPOSED FOR MORE THAN TWO DAYS.

2. STOCKPILES OF ERODIBLE MATERIAL, STEEP CUT AND FILL SLOPES ARE TO BE PROTECTED IF UNWORKED FOR MORE THAN 12 HOURS.

3. COVER MATERIALS SUFFICIENT TO COVER ALL DISTURBED AREAS SHALL BE STOCKPILED ON SITE.

4. ALL AREAS TO REMAIN UNWORKED DURING THE WET SEASON SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON.

5. STRAW MULCH SHALL BE APPLIED SIMULTANEOUSLY WITH SEED OR WITHIN FORTY-EIGHT (48) HOURS OF SEEDING.

6. FIFTY (50) LINEAR FEET OF SILT FENCE AND THE NECESSARY STAKES PER ACRE OF DISTURBANCE MUST BE STOCKPILED ON SITE.

7. SEDIMENT RETENTION IS REQUIRED UNLESS NO OFF-SITE DISCHARGE IS ANTICIPATED FOR THE SPECIFIED DESIGN FLOW.

8. SURFACE WATER CONTROLS ARE REQUIRED UNLESS NO OFF-SITE DISCHARGE IS ANTICIPATED FOR THE SPECIFIED DESIGN FLOW.

9. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED WEEKLY.

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DECEMBER 2020

STATE OF WASHINGTON WILLIAM JACOBSEN 46074 REGISTERED PROFESSIONAL ENGINEER
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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
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| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TESC NOTES

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PLOTTED: Nov 24, 2020-07:52:50am By sherryae
XREFS: KCWTD-Dsize-TB-Border.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT AREA LEGAL DESCRIPTION:

NE ¼ SW ¼ of Section 16, Township 24 North, Range 5 East, W.M.
(or NE SW Sec.16,T24N, R5E)
NW ¼ SE ¼ and SW ¼ SE ¼ and SE ¼ SE ¼ of Section 16, Township 24 North, Range 5 East, W.M.
NE ¼ NE ¼ and SE ¼ NE ¼ of Section 21, Township 24 North, Range 5 East, W.M.

PROPOSED PERMANENT UTILITY EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS ARE AVAILABLE ON REQUEST.

REFERENCE 0 1"

OLYMPIC PIPELINE
EASEMENT 20 FEET WIDE
NO. 5838611

FOREST DRIVE SE

PUGET SOUND P. & E.
CO. TRANSMISSION LINE
EASEMENT 100 FEET WIDE
NO. 2520354

COAL CREEK PKWY SE

KC SEWER EASEMENT 10 FEET WIDE
NO. 5887189

KC COAL CREEK TRUNK
UTILITY EASEMENT 50 FEET WIDE
NO. 20050414003757

NE 1/4, SE 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

SE 1/4, SE 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

50 FOOT SANITARY SEWER EASEMENT

SEATTLE PUBLIC UTILITIES
RIGHT-OF-WAY 60 FOOT WIDE
NO. 84259

SW 1/4, SE 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

NE 1/4, SECTION 21
RANGE 24 TOWNSHIP 5

NW 1/4, SE 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

KC SEWER EASEMENT 10 FEET WIDE
NO 5887189

WASHINGTON NATURAL GAS CO
EASEMENT 10 FEET WIDE
NO. 5021285

SLOPE EASEMENT
NO. 199710160394

P.S.P. & L.C. EASEMENT
NO. 4078741

SLOPE EASEMENT
NO. 9709041614

COB WATER MAIN
EASEMENT 10 FEET WIDE
NO. 8602190663

NE 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

125TH AVE SE ROW 30 FOOT WIDE
NO. 5333417

CITY OF SEATTLE TRANS LINE EASEMENT 150 FEET WIDE
NO 5706454

124TH AVENUE SE

125TH AVENUE SE

KC SEWER EASEMENT 10 FEET WIDE
NO. 5879812

COB UTILITY EASEMENT 10 FEET WIDE
NO. 8605281052

KC COAL CREEK TRUNK SEWER
EASEMENT 50 FEET WIDE
20050414003757

KC SEWER EASEMENT 10 FEET WIDE
NO. 5887189

WSDOT ROW

NW 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

COB SEWER EASEMENT 10 FEET WIDE
NO.6007673

KC COAL CREEK TRUNK UTILITY
EASEMENT 50 FEET WIDE
NO. 20050414003757

NE 1/4, SE 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

SW 1/4, SE 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

NW 1/4, SW 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

SW 1/4, SW 1/4, SECTION 16
RANGE 24 TOWNSHIP 5

NW 1/4, SECTION 21
RANGE 24 TOWNSHIP 5

0 250 500'
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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Brown AND Caldwell
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON · JOSEPH WILLIAM JACOBSEN · 19013 · REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| DESIGNED/DRAWN: | CHECKED: |
|---|---|
| K. TOLLE | R. BARD |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | AS NOTED |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# KC TRUNK LINE EASEMENTS
# COAL CREEK AREA

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-00005

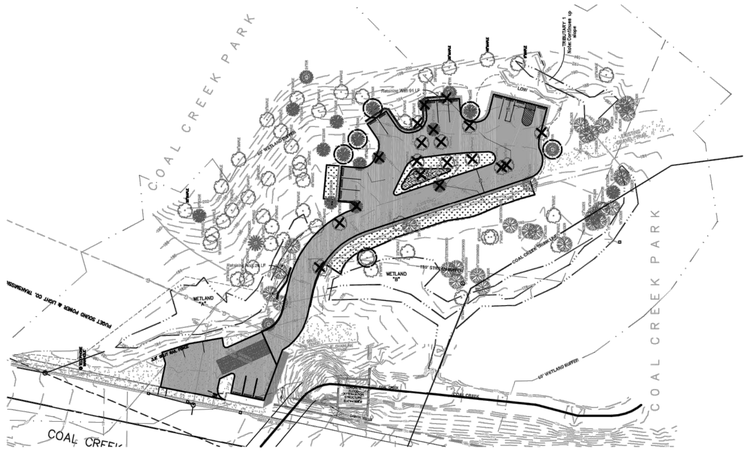
SHT NO / TOTAL: # | REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\sherryae\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-011aaron.sherry@jacobs.com\d0406435\CCT900-C-00005-AES.dwg | Layout: EASEMENTS
PLOTTED: Sep 22, 2020-02:54:59pm By sherryae
XREFS: 900-1123624Alignments.dwg; CCEasementOutline_012220l19.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624_LPX.dwg; KCWTD-Dsize-TB-Border-Update.dwg
IMAGES:

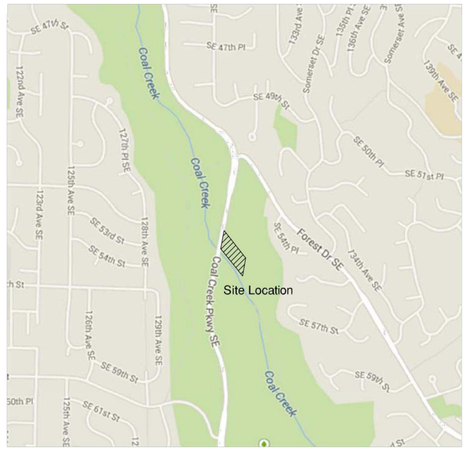
REFERENCE ONLY

# Coal Creek Parkway Trailhead

# City of Bellevue, WA.




SITE PLAN
SCALE: 1" = 50'-0"




VICINITY MAP
Site Location: Newcastle Golf Club Road, 400' west of 155th Ave SE

**EROSION CONTROL PLAN STANDARD NOTES :**

(From City of Bellevue Clearing & Grading Development Standards- March 12, 2010, APPENDIX II-A, Standard Notes for Erosion Control Plans)

1. All clearing & grading construction must be in accordance with City of Bellevue (COB)Clearing & Grading Code, Clearing & Grading Development Standards, Land Use Code, Uniform Building Code, permit conditions, and all other applicable codes, ordinances, and standards. The design elements within these plans have been reviewed according to these requirements. Any variance from adopted erosion control standards is not allowed unless specifically approved by the City of Bellevue Development Services (DSD) prior to construction. It shall be the sole responsibility of the applicant and the professional civil engineer to correct any error, omission, or variation from the above requirements found in these plans. All corrections shall be at no additional cost or liability to the COB.
2. Approval of this erosion/sedimentation control (ESC) plan does not constitute an approval of permanent road or drainage design (e.g. size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).
3. A copy of the approved plans and drawings must be on-site during construction. The applicant is responsible for obtaining any other required or related permits prior to beginning construction.
4. The implementation of these ESC plans and the construction, maintenance, replacement, and upgrading of these ESC facilities is the responsibility of the applicant/contractor until all construction is completed and approved and vegetation/landscaping is established.
5. The ESC facilities shown on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to insure that sediment and sediment laden water do not enter the drainage system, roadways, or violate applicable water standards.
6. The ESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment-laden water do not leave the site.
7. All locations of existing utilities have been established by field survey or obtained from available records and should, therefore, be considered only approximate and not necessarily complete. It is the sole responsibility of the contractor to independently verify the accuracy of all utility locations and to discover and avoid any other utilities not shown which may be affected by the implementation of this plan.
8. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the applicant/contractor for the duration of construction.
9. Clearing shall be limited to the areas within the approved disturbance limits. Exposed soils must be covered at the end of each working day when working from October 1st through April 30th. From May 1st through September 30th, exposed soils must be covered at the end of each construction week and also at the threat of rain. Clearing & Grading Development Standards – Appendix A2 Page 207
10. At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.
11. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project.
12. The contractor must maintain a sweeper on site during earthwork and immediately remove soil that has been tracked onto paved areas as result of construction.
13. The ESC facilities shall be inspected daily by the applicant/contractor and maintained as necessary to ensure their continued functioning.
14. Any excavated material removed from the construction site and deposited on property within the City limits must be done in compliance with a valid clearing & grading permit. Locations for the mobilization area and stockpiled material must be approved by the Clearing and Grading Inspector at least 24 hours in advance of any stockpiling.
15. The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within the 48 hours following a major storm event.
16. Final site grading must direct drainage away from all building structures at a minimum 5% slope, per the International Residential Code (IRC) R401.3.

**CALCULATIONS**

| | |
|---|---|
| PROJECT AREA: | 33,575 square feet (LIMIT OF WORK) |
| TOTAL PROPOSED IMPERVIOUS AREA: | 15,377 SF |
| EXISTING IMPERVIOUS AREA: | 10,445 SF |
| NEW IMPERVIOUS AREA: | 6,956 square feet |
| REPLACED IMPERVIOUS AREA: | 8,421 square feet |
| NEW + REPLACED IMPERVIOUS AREA: | 15,377 square feet |
| MITIGATION PLANTING AREA: | 7,000 square feet |

TOTAL AREA OF LAND DISTURBING ACTIVITY: 23,954 square feet
MATERIAL EXPORT/IMPORT:
Estimated Cut: 495 cubic yards (strip on-site organics, re-grade on-site rock for subgrade, on-site materials re-used, place excavation in fill areas)
Estimated export of unusable material: 125 cubic yards
Estimated Fill: 250 cubic yards (imported bioretention soil/fill for roadway and parking)

**PROJECT DESCRIPTION**

The existing gravel parking lot and trail will be replaced with asphalt pavement, and improved with 18 parking spaces and related landscape amenities. Stormwater improvements will include pervious asphalt pavement, rain gardens and compost-amended vegetated filter strips (CAVFS) to collect and treat runoff.

**LEGAL DESCRIPTION**

PORTION OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON.

**DRAWING INDEX**


1 COVER
2 SURVEY
3 TESC/DEMO
4 TESC/DEMO NOTES
5 SITE PLAN B
6 MITIGATION PLAN
7 PLANTING DETIALS
C1 SITE DEVELOPMENT PLAN
C2 ACCESS ROAD AND PROFILE DETAILS
C3 SECTIONS NOTES AND DETAILS


**CLIENT**

City of Bellevue Parks Department
Geoffrey Bradley, Project Manager
450 110th Ave. NE, P.O. Box 90012
Bellevue, WA. 98009
tel: (425) 452-2740

**LANDSCAPE ARCHITECT**

Barker Landscape Architects
Contact: John Barker
3002 NW 68th Street.
Seattle, WA 98117
206-783-2870
206-783-8312 fax.
john@barkerla.com

**SURVEYOR**

LSA Lovell-Saurerland & Associates
19400 33rd Avenue W., Suite 200
Lynnwood, WA 98101
425-775-1591
42567217998 fax

**GENERAL NOTES**

1. All construction must be in accordance with the City of Bellevue's Development Standards; the City of Bellevue's Engineering and Utility Standards; the Bellevue City Code; the Uniform Building Codes; permit conditions; and all other applicable codes, ordinances, standards and policies. Applicable installation details are incorporated by reference to Bellevue's Engineering and Utilities published Standards. All applicable erosion control measures must be taken.
2. A copy of the approved plans must be on-site whenever construction is in progress.
3. The Contractor is responsible for obtaining any mechanical, electrical or other required permits prior to beginning construction.
4. All locations of existing utilities have been established by field survey or obtained from available records and should, therefore, be considered approximate only and not necessarily complete. It is the sole responsibility of the contractor (1) to independently verify the accuracy of all utility locations and (2) to discover and avoid any other utilities not shown which may be affected by the implementation of this plan.
5. Site shall be restored to better or equal condition in any areas affected by this work.
6. Scheduling: All work shall be coordinated with Owner to achieve minimal disturbance to roadway operation.
7.Contractor shall have proven experience in similar projects and be thoroughly familiar with City of Bellevue applicable standards and codes prior to commencement of work.
8. This layout is diagrammatic. Contractor shall coordinate exact location of points of connection to existing systems with Owner prior to beginning any work.

NOT FOR CONSTRUCTION
STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
JOHN FORREST BARKER
CERTIFICATE NO. 486

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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SEATTLE, WA 98104
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**PERMIT ISSUE**

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DECEMBER 2020

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| PROJECT ENGINEER: | SCALE: NONE |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

**COAL CREEK PARKWAY TRAILHEAD NOTES**

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-00170
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-09:51:36am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

REFERENCE ONLY

## STORM DRAINAGE GENERAL PLAN NOTES

1. All work shall conform to the 2013 edition of the City of Bellevue Utilities Department Engineering Standards and the Developer Extension Agreement.

2. Storm pipe shall be PVC conforming to ASTM D-3034 SDR 35 (4"h -15"h) or ASTM F-679 (18"h-27"h). Bedding and backfill shall be as shown in the Standard Details.

3. The locations of all existing utilities shown hereon have been established by field survey or obtained from available records and should therefore be considered approximate only and not necessarily complete. It is the sole responsibility of the excavator to independently verify the accuracy of all utility locations shown, and to further discover and avoid any other utilities not shown hereon which may be affected by the implementation of this plan. Immediately notify the Engineer if a conflict exists.

4. The footing drainage system and the roof downspout system shall not be interconnected and shall separately convey collected flows to the conveyance system or to on-site stormwater facilities.

5. Provide and maintain temporary sedimentation collection facilities to ensure that sediment or other hazardous materials do not enter the storm drainage system in accordance with the sites approved CSWPPP. For all construction during the rainy season, downhill basins and inlets must be protected with catch basin inserts. Simply placing filter fabric under the grate is not acceptable.

6. Prior to final inspection and acceptance of storm drainage work, pipes and storm drain structures shall be cleaned and flushed. Any obstructions to flow within the storm drain system, (such as rubble, mortar and wedged debris), shall be removed at the nearest structure. Wash water of any sort shall not be discharged to the storm drain system or surface waters.

7. Ends of each storm drain stub at the property line shall be capped and located with an 8' long 2" x 4" board, embedded to the stub cap and extending at least 3 feet above grade, and marked permanently "STORM". A copper 12 ga. locate wire firmly attached. The stub depth shall be indicated on the marker.

8. All grates in roadways shall be ductile iron, bolt-locking, vaned grates per the Standard Details. Structures in traffic lanes outside of the curbline which do not collect runoff shall be fitted with round, bolt-locking solid covers. Off-street structures which do not collect runoff shall be fitted with bolt-locking solid covers.

9. Vegetation/landscaping in the detention pond, bioretention facility, vegetated roof and/or drainage swale(s) are an integral part of the runoff treatment system for the project. Such drainage facilities will not be accepted until plantings are established.

10. All new manholes shall have a minimum inside diameter of 48"h and shall conform to the Standard Details. All new catch basins shall conform to the Standard Details.

11. Side storm stations are referenced from nearest downstream manhole/ catch basin.

12. All testing and connections to existing mains shall be done in the presence of a representative of the City of Bellevue Utilities Department.

13. All trenches shall be compacted, and Hot Mix Asphalt in place in paved areas, prior to testing storm lines for acceptance.

14. All public storm drains shall be air tested and have a video inspection performed prior to acceptance (see #23 below). Storm main constructed with flexible pipe shall be deflection tested with a mandrel prior to acceptance.

15. Storm stubs shall be tested for acceptance at the same time the main storm is tested.

16. All manholes/ catch basins in unpaved areas shall include a concrete seal around adjustment rings per Standard Details.

(17) All storm main extensions within the public right-of-way or in easements must be "gstaked"h by a surveyor licensed in Washington State for "gline and grade"h and cut sheets provided to the Engineer, prior to starting construction.

(18) The Contractor shall use a vacuum street sweeper to remove dust and debris from pavement areas as directed by the Engineer. Flushing of streets shall not be permitted without prior City approval.

19. Storm drainage mainlines, stubs and fittings shall be constructed using the same pipe material and manufacturer. Connections between stubs and the mainline will be made with a tee fitting. Tee fitting shall be from same manufacturer as pipe. Cut-in connections are only allowed when connecting a new stub to an existing mainline.

20. Manholes, catch basins and vaults are considered to be permit-required confined spaces. Entry into these spaces shall be in accordance with Chapter 296-809 WAC.

21. Placement of surface appurtenances (MH lids, valve lids, etc) in tire tracks of traffic lanes shall be avoided whenever possible. (22) Call 1-800-424-5555, or 8-1-1, 72 hours before construction for utility locates.

23. The Contractor shall perform a video inspection and provide a DVD of the storm pipe interior for the City'fs review. The video shall provide a minimum of 14 lines per millimeter resolution and cover the entire length of the applicable pipe. The camera shall be moved through the pipe at a uniform rate (≤ 30 ft/min), stopping when necessary to ensure proper documentation of the pipe condition. The video shall be taken after installation and cleaning to insure that no defects exist. The project will not be accepted until all defects have been repaired.

24. Clearly label public and private systems on the plans. Private systems shall be marked "gprivate"h and shall be maintained by the property owner(s).

25. All concrete structures (vaults, catch basins, manholes, oil/water separators, etc.) shall be vacuum tested.

26. Manholes, catch basins and inlets in easements shall be constructed to provide a stable, level grade for a minimum radius of 2.5 feet around the center of the access opening to accommodate confined space entry equipment.

27. Tops of manholes/ catch basins within public right-of-way shall not be adjusted to final grade until after paving.

28. Contractor shall adjust all manhole/ catch basin rims to flush with final finished grades, unless otherwise shown.

29. Contractor shall install, at all connections to existing downstream manholes/catch basins, screens or plugs to prevent foreign materials from entering existing storm drainage system. Screens or plugs shall remain in place throughout the duration of the construction and shall be removed along with collected debris at the time of final inspection and in the presence of a representative of the City of Bellevue Utilities Department.

30. Surface restoration of existing asphalt pavement shall be as required by the right-ofway use permit.

31. The Contractor shall maintain a minimum of five feet (5'f) horizontal separation between all water and storm drainage lines. Any conflict shall be reported to the Utility and the Developer'fs Engineer prior to construction.

32. It shall be the Contractor'fs responsibility to ensure that no conflicts exist between storm drainage lines and proposed or existing utilities prior to construction.

33. Before commencement of trenching, the Contractor shall provide filter fabric for all downhill storm drain inlets and catch basins, which will receive runoff from the project site. The contractor shall periodically inspect the condition of all filter fabric and replace as necessary.

34. Minimum cover over storm drainage pipe shall be 2 feet, unless otherwise shown.

35. Avoid crossing water or sewer mains at highly acute angles. The smallest angle measure between utilities should be 45 degrees.

36. At points where existing thrust blocking is found, minimum clearance between concrete blocking and other buried utilities or structures shall be 5 feet.

37. When work is to occur in easements, the Contractor shall notify the easement grantor and Bellevue Utilities in writing a minimum of 48 hours in advance of beginning work (not including weekends or holidays). Failure to notify grantor and Bellevue Utilities will result in a Stop Work Order being posted until the matter is resolved to the satisfaction of Bellevue Utilities. A written release from the easement grantor shall be furnished to the Utilities Inspector prior to permit sign-off.

38. The Contractor shall restore the Right-of-Way and existing public storm drainage easement(s) after construction to a condition equal or better than condition prior to entry. The Contractor shall furnish a signed release from all affected property owners after restoration has been completed.

39. Where a new utility line crosses below an existing AC main, the AC pipe shall be replaced with DI pipe to 3 feet past each side of the trench as shown on Standard Detail W-8. Alternatively, where directed by the Utility, the trench shall be backfilled with controlled density fill (CDF, aka flowable fill) from bottom of trench to bottom of AC main.

## CLEARING AND GRADING STANDARD NOTES

1. All clearing & grading construction must be in accordance with City of Bellevue (COB) Clearing & Grading Code, Clearing & Grading Erosion Control Standard Details (EC-1 through EC-23), Development Standards, Land Use Code, Uniform Building Code, permit conditions, and all other applicable codes, ordinances, and standards. The design elements within these plans have been reviewed according to these requirements. Any variance from adopted erosion control standards is not allowed unless specifically approved by the City of Bellevue Department of Planning & Community Development (PCD) prior to construction. It shall be the sole responsibility of the applicant and the professional civil engineer to correct any error, omission, or variation from the above requirements found in these plans. All corrections shall be at no additional cost or liability to the COB. All details for structural walls, rockeries over four feet in height, geogrid reinforced rockeries and geogrid reinforced modular block walls, must be stamped by a professional engineer.

2. A copy of the approved plans must be on-site during construction. The applicant is responsible for obtaining any other required or related permits prior to beginning construction.

3. All locations of existing utilities have been established by field survey or obtained from available records and should, therefore, be considered only approximate and not necessarily complete. It is the sole responsibility of the contractor to independently verify the accuracy of all utility locations and to discover and avoid any other utilities not shown which may be affected by the implementation of this plan.

4. The area to be cleared and graded must flagged by the contractor and approved by the Clearing and Grading Inspector prior to beginning any work on the site.

5. A reinforced silt fence must be installed in accordance with COB EC-5 and shall be located as shown on the approved plans or per the Clearing and Grading Inspector, along slope contours and down slope from the building site.

6. A hard-surface construction access pad is required per Clearing & Grading Standard Detail EC-1 or EC-2. This pad must remain in place until paving is installed.

7. Clearing shall be limited to the areas within the approved disturbance limits. Exposed soils must be covered at the end of each working day when working from October 1st through April 30th. From May 1st through September 30th, exposed soils must be covered at the end of each construction week and also at the threat of rain.

8. Any excavated material removed from the construction site and deposited on property within the City limits must be done in compliance with a valid clearing & grading permit. Locations for the mobilization area and stockpiled material must be approved by the Clearing and Grading Inspector at least 24 hours in advance of any stockpiling.

9. To reduce the potential for erosion of exposed soils, or when rainy season construction is permitted, the following Best Management Practices (BMPs) are required.
- Preserve natural vegetation for as long as possible or as required by the Clearing and Grading Inspector.
- Protect exposed soil using plastic (EC-14), erosion control blankets, straw or mulch (COB Guide to Mulch Materials, Rates, and Use Chart), or as directed by the Clearing and Grading Inspector.
- Install catch basin inserts as required by the Clearing and Grading Inspector or permit conditions of approval.
- Install a temporary sediment pond, a series of sedimentation tanks, temporary filter vaults, or other sediment control facilities. Installation of exposed aggregate surfaces requires a separate effluent collection pond onsite.

10. Final site grading must direct drainage away from all building structures at a minimum 2% slope, per the Uniform Building Code.

11. The contractor must maintain a sweeper on site during earthwork and immediately remove soil that has been tracked onto paved areas as result of construction.

12. Turbidity monitoring may be required as a condition of clearing and grading permit approval. If required, turbidity monitoring must be performed in accordance with the approved turbidity monitoring plan and as directed by the Clearing and Grading Inspector. Monitoring must continue during site (earthwork) construction until the final sign-off by the Clearing and Grading Inspector.

13. Any project that is subject to Rainy Season Restrictions will not be allowed to perform clearing and grading activities without written approval from the PCD Director. The rainy season extends from November 1st through April 30th, as defined in section 23.76.093A of the Clearing and Grading Code.

## THE CONSTRUCTION SWPPP 12 ELEMENTS

A CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NEEDS TO INCLUDE CONSTRUCTION PLANS AND A DRAINAGE REPORT AS PART OF THE FULL OR TARGETED DRAINAGE PLAN CONSISTENT WITH VOLUME II OF THE LATEST EDITION OF THE DEPARTMENT OF ECOLOGY'S STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON. THE DRAINAGE REPORT SHALL INCLUDE A SECTION THAT DISCUSSES THE 12 ELEMENTS AS THEY APPLY TO THE PROJECT.

THE 12 ELEMENTS THAT ARE PART OF A CONSTRUCTION SWPPP ARE AS FOLLOWS:

1. MARK CLEARING LIMITS: PRIOR TO CLEARING OR DISTURBING THE LIMITS MUST BE MARKED. THIS ELEMENT IS PART OF MOST NORMAL CONSTRUCTION PLANS AS ONE OF THE FIRST STEPS.
2. ESTABLISH CONSTRUCTION ACCESS: ALL EROSION CONTROL PLANS SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE (OR OTHER METHOD OF PREVENTING SEDIMENT TRANSPORT ONTO THE ROADS). IF A STANDARD GRAVEL CONSTRUCTION ENTRANCE IS PROPOSED, USE GEO-TEXTILE FABRIC UNDER THE ROCK. NOTE: A WHEEL WASH IS REQUIRED FOR PLANS THAT PROPOSE WINTER GRADING.
3. DETAIN FLOWS: BASED ON A DOWNSTREAM ANALYSIS IT MAY BE NECESSARY TO DETAIN RUNOFF FROM A SITE UNDER CONSTRUCTION. IT MAY BE NECESSARY TO CONSTRUCT AND USE A DETENTION POND TO CONTROL FLOWS DURING CONSTRUCTION.
4. INSTALL SEDIMENT CONTROLS: IF THERE IS RUNOFF FROM THE CONSTRUCTION SITE, SEDIMENT SHALL BE REMOVED FROM THE WATER. NOTE THAT THE WATER QUALITY STANDARDS MUST BE MET.
5. STABILIZE SOILS: ALL EXPOSED AND NON-WORKED SOIL SHALL BE STABILIZED BY USE OF BMP'S. NOTE THERE ARE TIME PERIODS OF ALLOWED EXPOSURE THAT DEPEND ON THE SEASON. GROUNDCOVER BOTH TEMPORARY AND PERMANENT NEED TO BE PART OF THE CONSTRUCTION PLANS.
6. PROTECT SLOPES: CUT AND FILL SLOPES NEED TO BE PROTECTED FROM EROSIVE FLOWS AND CONCENTRATED FLOWS UNTIL PERMANENT COVER AND DRAINAGE CONVEYANCE SYSTEMS ARE IN PLACE.
7. PROTECT DRAIN INLETS: ALL STORM DRAIN INLETS REQUIRE PROTECTION FROM SEDIMENT AND SILT LADEN WATER.
8. STABILIZE CHANNELS AND OUTLETS: TEMPORARY AND PERMANENT CONVEYANCE SYSTEMS SHALL BE STABILIZED TO PREVENT EROSION DURING AND AFTER CONSTRUCTION. CULVERT OUTLETS REQUIRE PROTECTION.
9. CONTROL POLLUTANTS: THE PLAN SHALL SHOW HOW ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, WILL BE HANDLED. THIS INCLUDES MAINTENANCE OF CONSTRUCTION EQUIPMENT, FERTILIZERS, APPLICATION OF CHEMICALS, AND WATER TREATMENT SYSTEMS.
10. CONTROL DE-WATERING: THE WATER FROM DE-WATERING SYSTEMS FOR TRENCHES, VAULTS AND FOUNDATIONS SHALL BE DISCHARGED INTO A CONTROLLED SYSTEM.
11. MAINTAIN BMPS: THE PLAN SHALL PROVIDE FOR INSPECTION AND MAINTENANCE OF THE PLANNED AND INSTALLED CONSTRUCTION BMPS AS WELL AS THEIR REMOVAL AT THE END OF THE PROJECT.
12. MANAGE THE PROJECT: THE PLAN SHALL OUTLINE HOW THE SITE SHALL BE MANAGED FOR EROSION CONTROL AND IDENTIFY THE MANAGEMENT TEAM, INCLUDING A CERTIFIED EROSION CONTROL SPECIALIST. IT NEEDS TO COVER PHASING, TRAINING, PRE-CONSTRUCTION CONFERENCE, COORDINATION WITH UTILITIES AND CONTRACTORS, MONITORING AND REPORTING. IT SHALL PROVIDE FOR NOTICE OF PROBLEMS, REVISIONS DURING CONSTRUCTION AND CONTINGENCY PLANNING. ONE OF THE MOST IMPORTANT ELEMENTS IN THE MANAGEMENT OF THE PROJECT IS PLANNING FOR CONTINGENCIES BASED ON THE RISK OF EXPOSURE DURING PHASES OF THE DEVELOPMENT. IT IS ESSENTIAL THAT PLANNING IS ONGOING THROUGHOUT THE LIFE OF THE PROJECT.

## CONSTRUCTION SEQUENCE SCHEDULE

1. ATTEND PRE-CONSTRUCTION MEETING.
2. FLAG CLEARING LIMITS.
3. INSTALL COIR LOGS. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES INCLUDING TEMPORARY CULVERTS AS NEEDED.
4. CLEAR SITE PER PLAN.
5. CONSTRUCT UTILITIES (SEWER, STORM, WATER, POWER, ETC.).
6. FINAL GRADE/PAVE.
7. HYDROSEED AND MULCH OR LANDSCAPE ALL EXPOSED AREAS.
8. FLUSH STORM DRAINAGE SYSTEM (I.E., CLEAN OUT AND TEST SYSTEM).
9. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.

# SWPPP NOTES

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT JOHN FORREST BARKER CERTIFICATE NO. 466

NOT FOR CONSTRUCTION

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

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SEATTLE, WA 98104
206.436.0515 | 800.615.9900

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| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# COAL CREEK TRAILHEAD SITE PREPARATION AND TESC NOTES

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-00171
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-09:52:15am By: kinseym2
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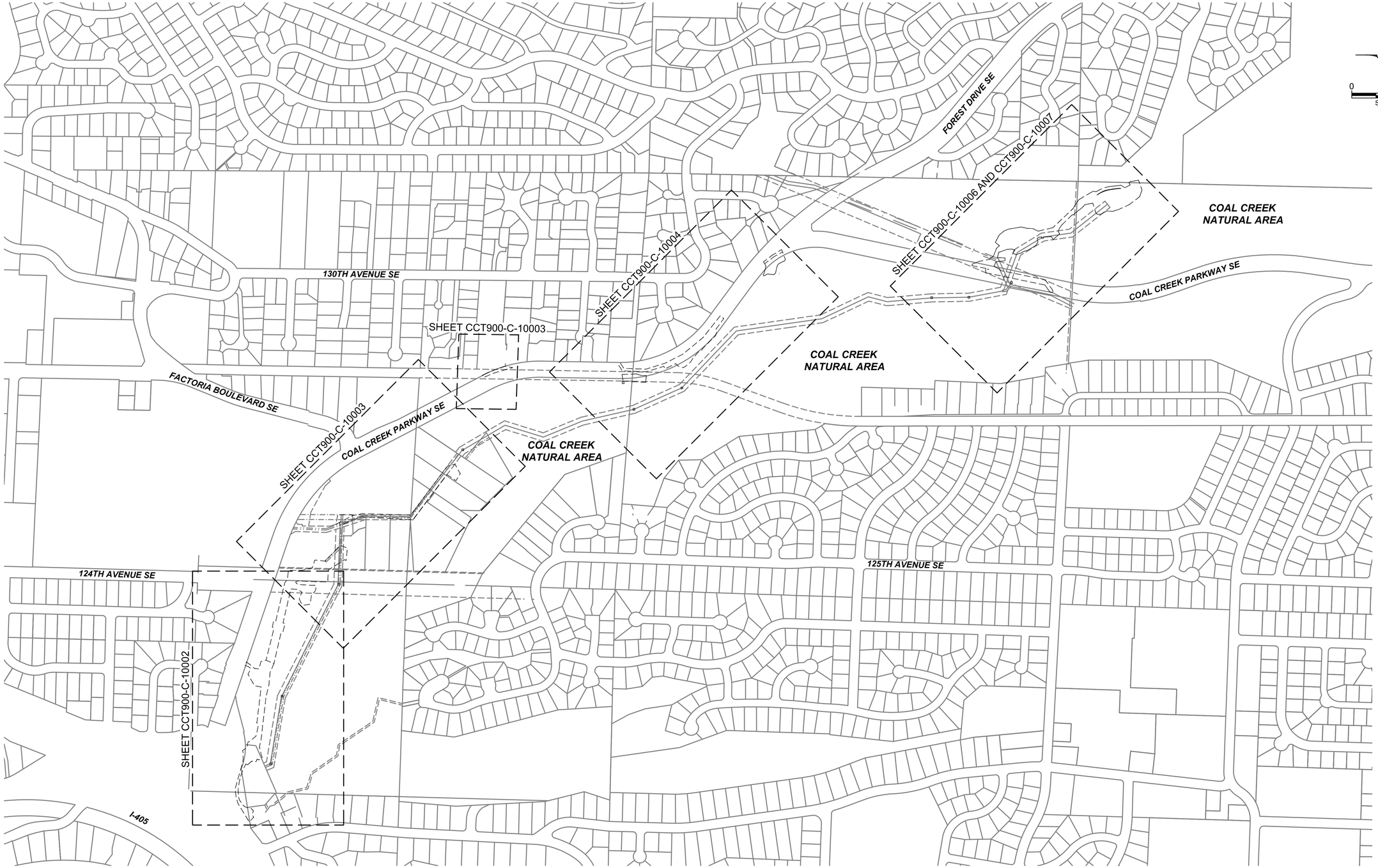


| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON — WILLIAM JACOBSEN — 46074 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TESC KEY MAP

DATE: DECEMBER 2020

DRAWING NO: **CCT900-C-10001**

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\sherryae\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\aaron.sherry@jacobs.com\d0406435\CCT900-C-10001.dwg | Layout: CCT900-C-10001
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
EASTSIDE INTERCEPTOR (ESI) CONNECTION

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

## KEY NOTES

1. HIGH VISIBILITY CONSTRUCTION FENCING AT LIMITS OF DISTURBANCE, SEE SPECIFICATION SECTION 31 25 00.
2. SILT FENCE, SEE DETAIL C/CCT900-C-40001.
3. STRAW WATTLES, SEE DETAIL D/CCT900-C-40001.
4. STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL E/CCT900-C-40001.
5. LIMITS OF SOUND TRANSIT RESTORATION. CONTRACTOR SHALL PROTECT AND NOT DISTURB GROUND AND VEGETATION WHATSOEVER WITHIN LIMITS.

119TH AVE SE
COAL CREEK PARKWAY SE
STAGING AREA 1
STAGING AREA 2
WORK AREA 1
WORK AREA 2
WETLAND A
WETLAND B1
WETLAND C
WETLAND D/E
WETLAND F
MW/CCT-17
MW/CCT-18
MW/CCT-1
RE*ES15-7.R02-28
RE*COAL.R13-01
RE*COAL.R13-02
ENVIRONMENTAL MITIGATION AREA SEE LANDSCAPING PLANS FOR ADDITIONAL WORK LIMITS AND TESC MEASURES
DETENTION VAULT
COB ROW
COAL CREEK
MATCHLINE SEE SHEET CCT900-C-10003

0 50 100
SCALE IN FEET

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Dec 04, 2020-10:23-15am By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624TESC.dwg; J16144-C3D 2017.dwg; zexistingdata.DWG; zexistingdata-STRM.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

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STATE OF WASHINGTON — WILLIAM JACOBSEN — 46074 — REGISTERED PROFESSIONAL ENGINEER
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|---|---|
| K. TOLLE | R. BARD |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TESC PARTIAL PLAN AT ESI OPENCUT TO DIRECT RECEIVING PIT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10002
SHT NO / TOTAL: #
REV NO:

PROJECT LOCATION:
WOODSONG CONDOMINIUMS (CONDOS) AND 125TH AVENUE SE

PROJECT LOCATION:
SEATTLE PUBLIC UTILITIES (SPU) CORRIDOR STAGING LOCATIONS

## KEY NOTES

1. SILT FENCE, SEE DETAIL C/CCT900-C-40001.
2. STRAW WATTLES, SEE DETAIL B/CCT900-C-40001.
3. STORM DRAIN INLET PROTECTION, SEE DETAIL A/CCT900-C-40001.
4. SEE SHEET CCT900-C-XXXXX FOR STORMWATER CONTROLS. COORDINATE WITH TESC AS REQUIRED.
5. SEE SHEET CCT900-C-10165 FOR RESTORATION. SEDIMENT LADEN RUNOFF IS PROHIBITED FROM ENTERING THE CREEK. COORDINATE TESC AS REQUIRED.
6. INSTALL REMOVABLE STABILIZED SURFACING AS REQUIRED FOR USE. TRACKING SEDIMENT ON ROADWAYS IS PROHIBITED

COAL CREEK PARKWAY SE
COB ROW
MW/CCT-2
125TH AVE SE
MW/CCT-16
DIRECT PIPE SEE SHEET CCT900-C-10012
DIRECT RECEIVING PIT
MW/CCT-19
MW/CCT-9
MW/CCT-8
MW/CCT-20
RE*COAL.R13-06
RE*COAL.R13-07
RE*COAL.R13-05
WORK AREA 3A
WETLAND D/E
STAGING AREA 3
WORK AREA 2
TRIBUTARY #268
COAL CREEK
EASEMENT
EASEMENT
EASEMENT
RE*COAL.R13-04
WORK AREA 3B
RE*COAL.R13-08
MW/CCT-10
RE*COAL.R13-09
POTENTIAL WETLAND L
ANNA'S POND
MATCH LINE SEE SHEET CCT900-C-10002
59.23

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- SINGLE-FAMILY TRANSITION AREA

SCALE IN FEET: 0, 50, 100

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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WILLIAM HAO — STATE OF WASHINGTON — 46074 — REGISTERED PROFESSIONAL ENGINEER

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|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TESC PARTIAL PLAN AT CONDO RECONNECTIONS AND SPU ROW

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10003
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Dec 04, 2020-04:27:41pm By:JV036010
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IMAGES:

# PROJECT LOCATION:
# SEATTLE PUBLIC UTILITIES (SPU) CORRIDOR STAGING LOCATIONS AND MICROTUNNEL LOCATIONS

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

## KEY NOTES

1. HIGH VISIBILITY CONSTRUCTION FENCE AT LIMITS OF DISTURBANCE, SEE SPECIFICATION SECTION 31 25 00.
2. SILT FENCE, SEE DETAIL C/CCT900-C-40001.
3. STRAW WATTLES TO BE USED WHILE SEEDING TO TEMPORARILY STABILIZE SLOPE, SEE DETAIL D/CCT900-C-40001.
4. STORM DRAIN INLET PROTECTION, SEE DETAIL A/CCT900-C-40001.
5. STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL E/CCT900-C-40001.

MW/CCT-22
MW/CCT-12
SE 48TH PLACE
130TH AVE SE
COB ROW
SEE DEMOLITION PLANS
MW/CCT-5
WETLAND M
STREAM 1
SEE SHEET CCT900-C-10050
WORK AREA 5
SEE SHEET CCT900-C-10060
MW/CCT-24
COAL CREEK PARKWAY SE
MW/CCT-25
SEE SHEET CCT900-C-10016
MW/CCT-6
SEE SHEET CCT900-C-10040
WORK AREA 6
SEE SHEET CCT900-C-10042
STAGING AREA 5
RE*COAL.R13-13
RE*COAL.R13-14
COAL CREEK
RE*COAL.R13-15
SPU ROW
WETLAND O
EASEMENT
EASEMENT
WETLAND N
RE*COAL.R13-16

0 50 100
SCALE IN FEET

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TESC PARTIAL PLAN AT BELLEVUE LATERALS

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10004
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624TESC.dwg, J16144-C3D 2017.dwg; zexistingdata DWG; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

# PROJECT LOCATION: SOUTH TRUNK CONNECTOR AND SPUR

## LAND USE OVERLAY LEGEND

- HUMAN-MADE FILL-NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- ESTIMATED OHWM
- DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- MODELED 100-YEAR FLOODPLAIN
- 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

## KEY NOTES

1. HIGH VISIBILITY CONSTRUCTION FENCING AT LIMITS OF DISTURBANCE, SEE SPECIFICATION SECTION 31 25 00.
2. SILT FENCE, SEE DETAIL C/CCT900-C-40001.
3. STRAW WATTLES, SEE DETAIL D/CCT900-C-40001.
4. COMPOST FILTER SOCK AT TOP OF CREEK BANK, SEE DETAILS C/CCT900-C-40001.
5. STORM DRAIN INLET PROTECTION, SEE DETAIL A/CCT900-C-40001.
6. TRACKING SEDIMENT ON THE ROADWAY IS PROHIBITED . INSTALL STABILIZED CONSTRUCTION ENTRANCE AND COORDINATE WITH INSTALLATION OF OPEN CUT TRENCH AS NEEDED, SEE DETAIL E/CCT900-C-40001.
7. SEE SHEETS CCT900-C-10139 AND CCT900-C-10140 FOR RESTORATION. SEDIMENT LADEN RUNOFF IS PROHIBITED FROM ENTERING THE CREEK. COORDINATE TESC AS REQUIRED.
8. ACCESS TO COAL CREEK SEDIMENTATION POND REQUIRED ON REQUEST.
9. PROTECT CULVERT IN PLACE.

WETLAND FF
WETLAND EE
WETLAND DD
WETLAND CC
WETLAND AA
WETLAND BB
WETLAND A/1
WETLAND G
WETLAND J
WETLAND B
WETLAND 2
WETLAND H
WETLAND I
WORK AREA 7
WORK AREA 8
MW/CCT-14
MW/CCT-7
MW/CCT-15
MW/CCT-27
MW/CCT-28
MW/CCT-29
MW/CCT-30
MW/CCT-31
RE*COAL.R13-20
RE*COAL.R13-21
RE*COAL.R13-22A
RE*COAL.R13-23
RE*COAL.R13-24
RE*COAL.R13-25
RE*COAL.R13-25A
RE*COAL.R13-25B
RE*COAL.R13-25C
RE*COAL.C4-22
RE*COAL.C4-26
RE*COAL.C4-27
RE*COAL.C4-28
TRIBUTARY #2
TRIBUTARY #0272
TRIBUTARY #1
DIRECT PIPE LAUNCH PIT
COAL CREEK PARKWAY SE
COAL CREEK
COB ROW
EASEMENT
194963
192857

MH25B TEMPORARY BENDWAY WEIRS AND BANK STABILIZATION INSTALLED IN AUGUST 2020 TO BE FULLY REMOVED DURING STREAM RESTORATION.

SEE SHEET CCT900-C-10008 FOR MORE DETAIL

0 50 100
SCALE IN FEET

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DECEMBER 2020

STATE OF WASHINGTON WILLIAM JACOBSEN 46074 REGISTERED PROFESSIONAL ENGINEER
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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TESC PARTIAL PLAN AT SPUR

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10006
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: 900-1123624Alignments.dwg; 900-1123624TESC.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; zexistingdata-STRM.dwg; zexistingdata-STRM.dwg
IMAGES:

PROJECT LOCATION:
SPUR

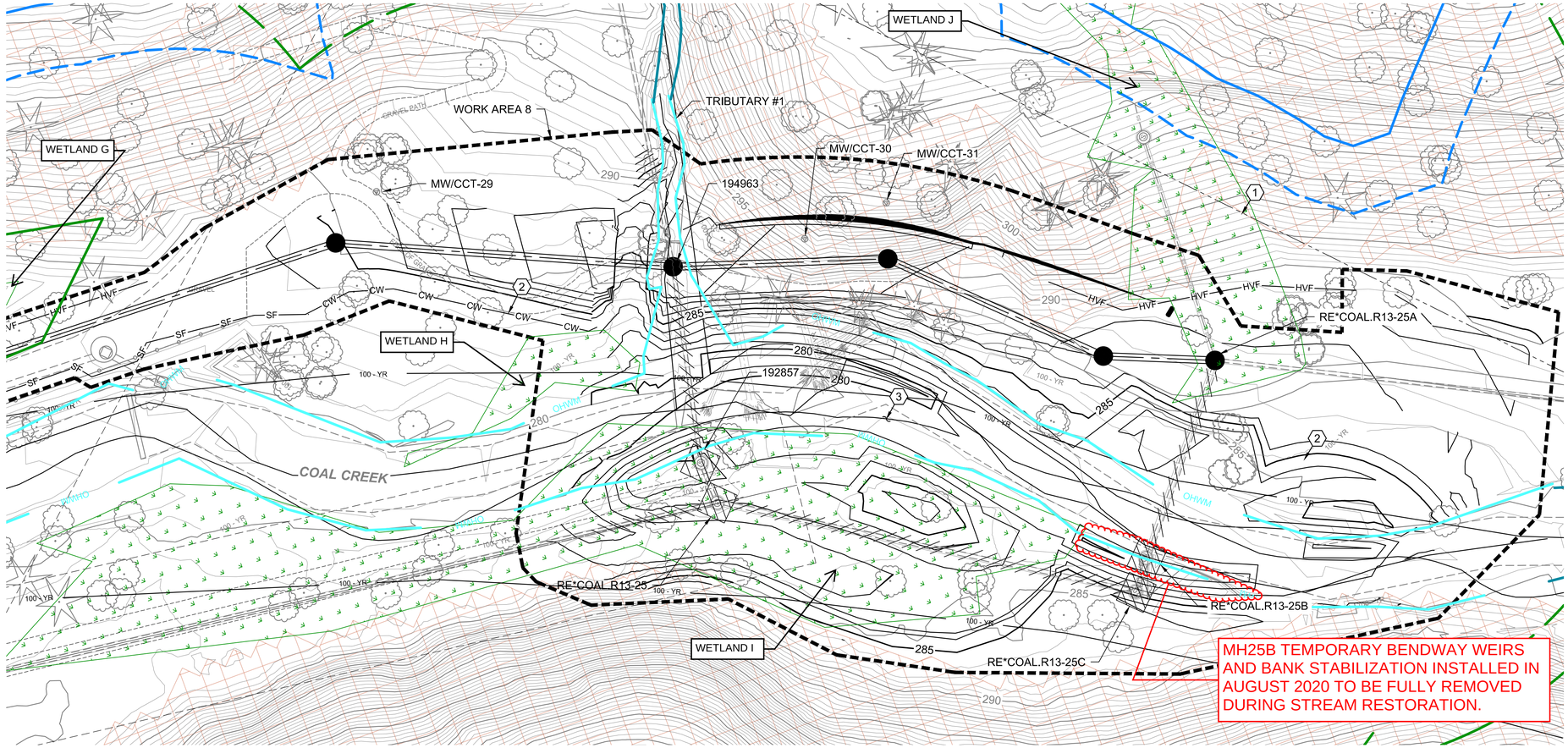
REFERENCE 1"
0 5

## KEY NOTES

1. HIGH VISIBILITY CONSTRUCTION FENCING AT LIMITS OF DISTURBANCE, SEE SPECIFICATION SECTION 31 25 00.
2. COMPOST FILTER SOCK AT TOP OF CREEK BANK, COORDINATE LOCATION AS NEEDED. SEE DETAILS C/CCT900-C-40001.
3. SEE SHEETS CCT900-C-10139 AND CCT900-C-10140 FOR RESTORATION. SEDIMENT LADEN RUNOFF IS PROHIBITED FROM ENTERING THE CREEK. COORDINATE TESC AS REQUIRED.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)




0 20 40
SCALE IN FEET

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STATE OF WASHINGTON — WILLIAM JACOBSEN — 46074 — REGISTERED PROFESSIONAL ENGINEER

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TESC PARTIAL PLAN AT SPUR

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10007
SHT NO / TOTAL: #
REV NO:


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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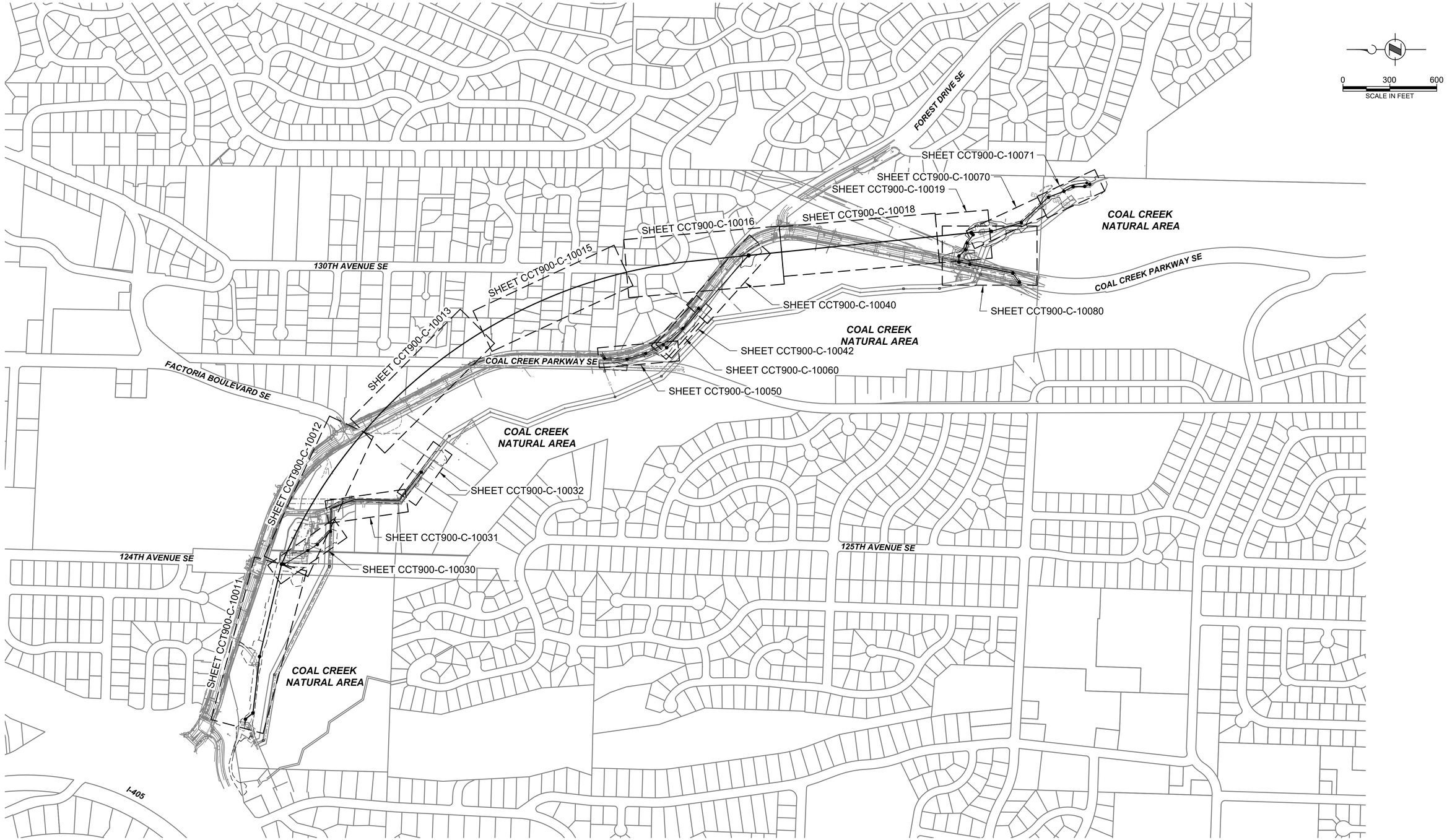
PLOTTED: Dec 07, 2020-11:43:03am By JV036010
XREFS: 900-1123624Alignments.dwg; 900-1123624TESC.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; zexistingdata-STRM.dwg; 900-1123624STRM.dwg;




BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Nov 18, 2020-11:35:41am By sherryae
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg
IMAGES:

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WILLIAM JACOBSEN
46074
REGISTERED PROFESSIONAL ENGINEER

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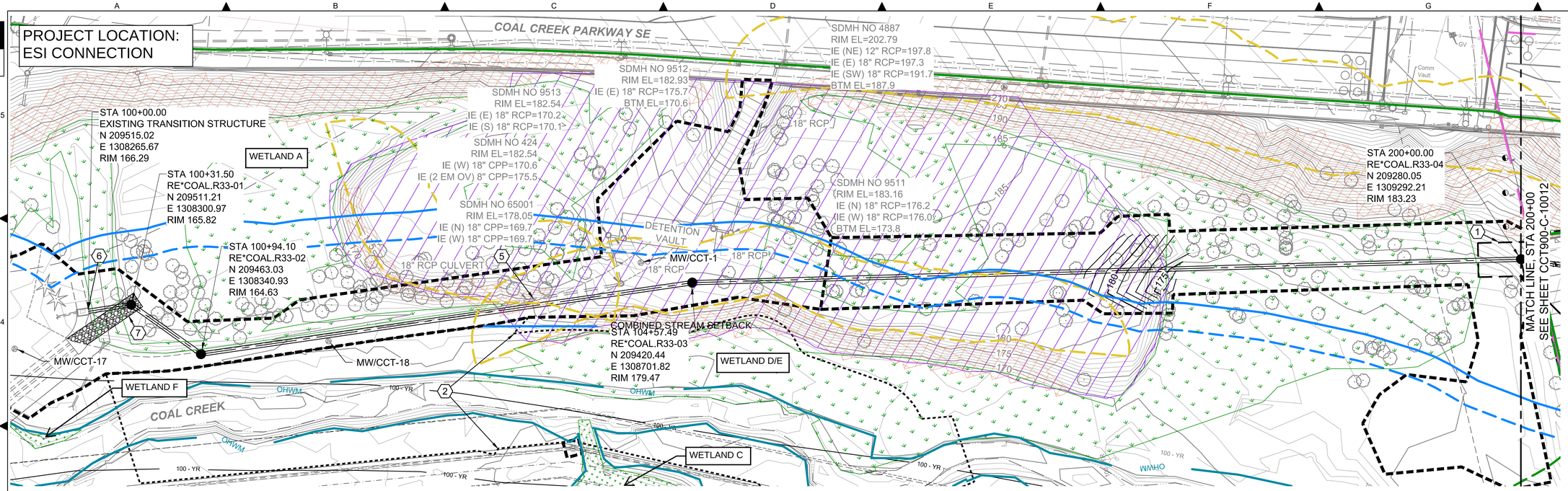
| K. TOLLE | R. BARD |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | AS SHOWN |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# PIPING KEY MAP

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10010
SHT NO X / TOTAL # | REV NO:




PLAN

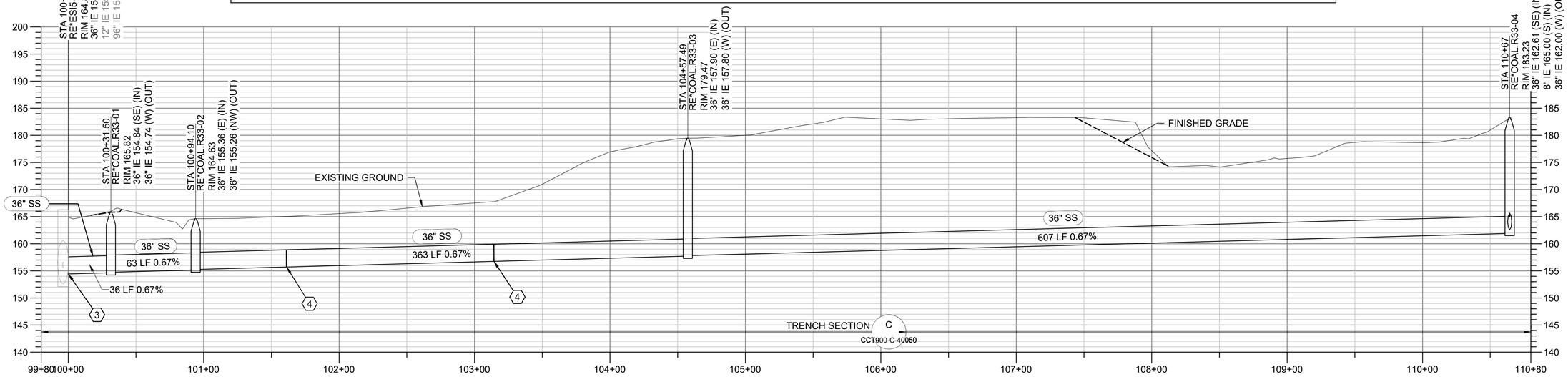
SCALE: 1" = 40'

## KEY NOTES

1. DIRECT PIPE RECEIVING PIT, 25' x 40'.
2. LIMITS OF SOUND TRANSIT RESTORATION. CONTRACTOR SHALL PROTECT AND NOT DISTURB GROUND AND VEGETATION WHATSOEVER WITHIN LIMITS.
3. CORE INTO EXISTING STRUCTURE, SEE DETAIL A/CCT900-C-40050.
4. TRENCH DAM, SEE DETAIL E/CCT900-C-40050.
5. PROTECT STORM PIPE IN PLACE OR REMOVE AND REPLACE IN KIND. RESTORE TO EXISTING CONDITION.
6. PROVIDE TWO JOINTS BETWEEN EXISTING STRUCTURE AND NEW MH.
7. 12' WIDE GRAVEL ACCESS PATH. 6" CSBC AND 3" CSTC PER WSDOT 9-03.9(3) OVERLAID ON GEOTEXTILE PER WSDOT 9-33.2(1) TABLE S. EXTEND PATH 5' BEYOND MH COVER.

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- SINGLE-FAMILY TRANSITION AREA




PROFILE

SCALE: H 1" = 40', V 1" = 10'

SCALE IN FEET
V: 1" = 10'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# OPEN CUT PIPE AT ESI PLAN AND PROFILE

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10011
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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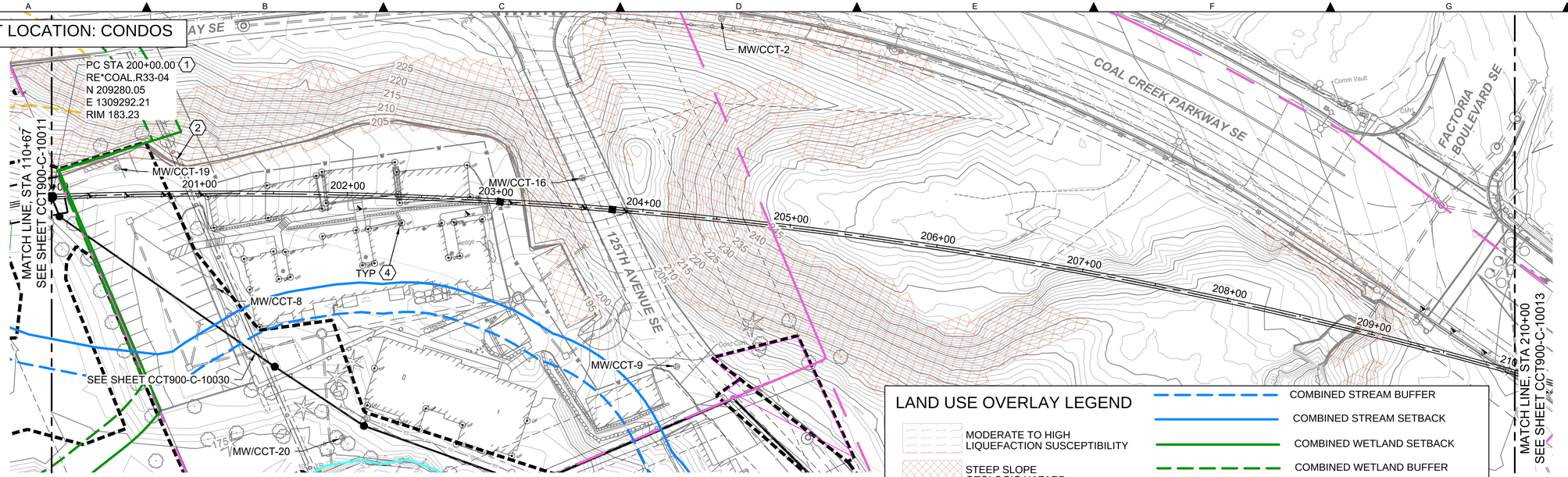
PLOTTED: Dec 07, 2020-12:15:46pm By: JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION: CONDOS




PLAN

SCALE: 1" = 40'

## LAND USE OVERLAY LEGEND

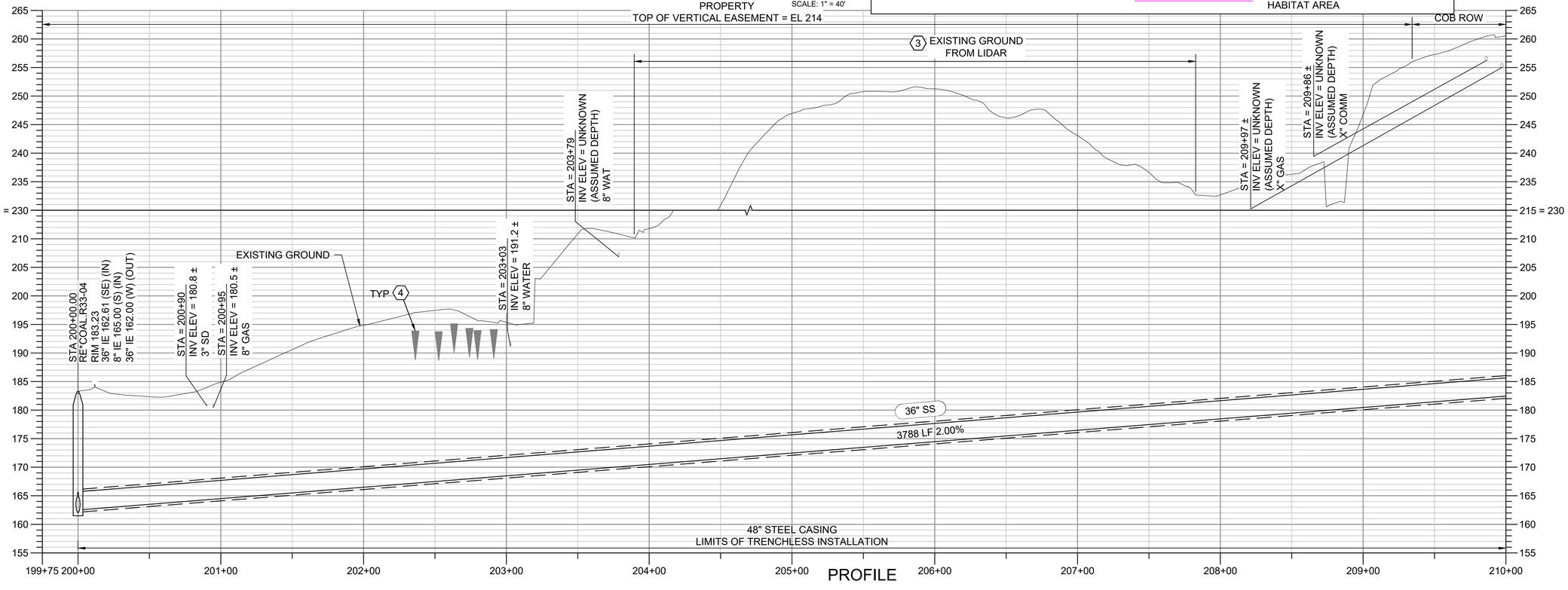
- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND SETBACK
- COMBINED WETLAND BUFFER
- SINGLE-FAMILY TRANSITION AREA
- DESIGNATED CRITICAL HABITAT AREA

## GENERAL NOTES

1. SEE DETAIL A/CCT900-C-40051 FOR DIRECT PIPE STEEL CASING.

## KEY NOTES

1. MH TO BE BUILT ON DIRECT PIPE ALIGNMENT, FOLLOWING INSTALLATION OF DIRECT PIPE.
2. 8-INCH DEACTIVATED PSE GAS LINE. COORDINATE WITH PSE TO DETERMINE LEVEL OF PROTECTION.
3. UTILITIES NOT SHOWN IN AREAS WHERE LIDAR IS USED FOR THE EXISTING GROUND SURFACE. UTILITIES NOT ANTICIPATED AT DEPTH OF WORK. CONTRACTOR TO CONFIRM.
4. PILE LOCATIONS ARE FROM WOODSONG CONDO RECORD DRAWINGS 1985 AND ARE APPROXIMATE. PILES WITHIN 20' OF THE CENTER OF THE ALIGNMENT ARE SHOWN.




PROFILE

SCALE: H 1" = 40', V 1" = 10'

0 40 80
SCALE IN FEET
V: 1" = 10'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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AND ASSOCIATED FIRMS

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DECEMBER 2020

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|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DIRECT PIPE PLAN AND PROFILE, STA 200+00 TO STA 210+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10012
SHT NO X / TOTAL # | REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-10012.dwg | Layout: CCT900-C-10012
PLOTTED: Dec 07, 2020-12:40:12pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SPU CORRIDOR STAGING LOCATION
AND SUBSURFACE ACTIVITIES

## LAND USE OVERLAY LEGEND

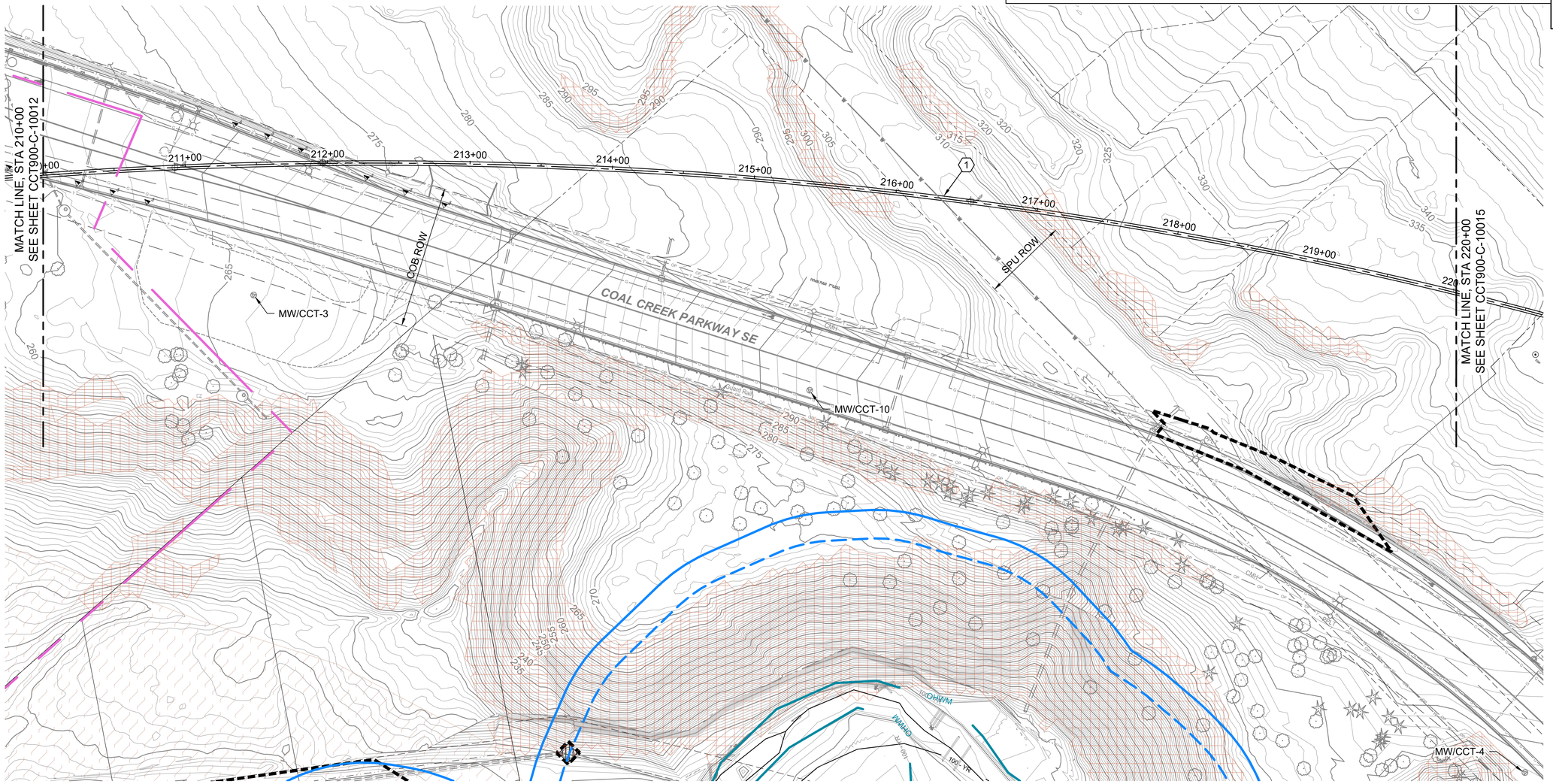
- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- SINGLE-FAMILY TRANSITION AREA
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

## GENERAL NOTES

1. SEE DETAIL A/CCT900-C-40051 FOR DIRECT PIPE STEEL CASING.
2. SEE THE FOLLOWING SHEET, CCT900-C-10014 FOR PROFILE.

## KEY NOTES

1. LOCATION AND DEPTH OF EXISTING 36" WATER IS FROM 1956 AS-BUILTS, SPU VAULT #776-65, AND IS APPROXIMATE.




PLAN

SCALE: 1" = 40'

0 40 80
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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AND ASSOCIATED FIRMS

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STATE OF WASHINGTON · WILLIAM JACOBSEN · 46074 · REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

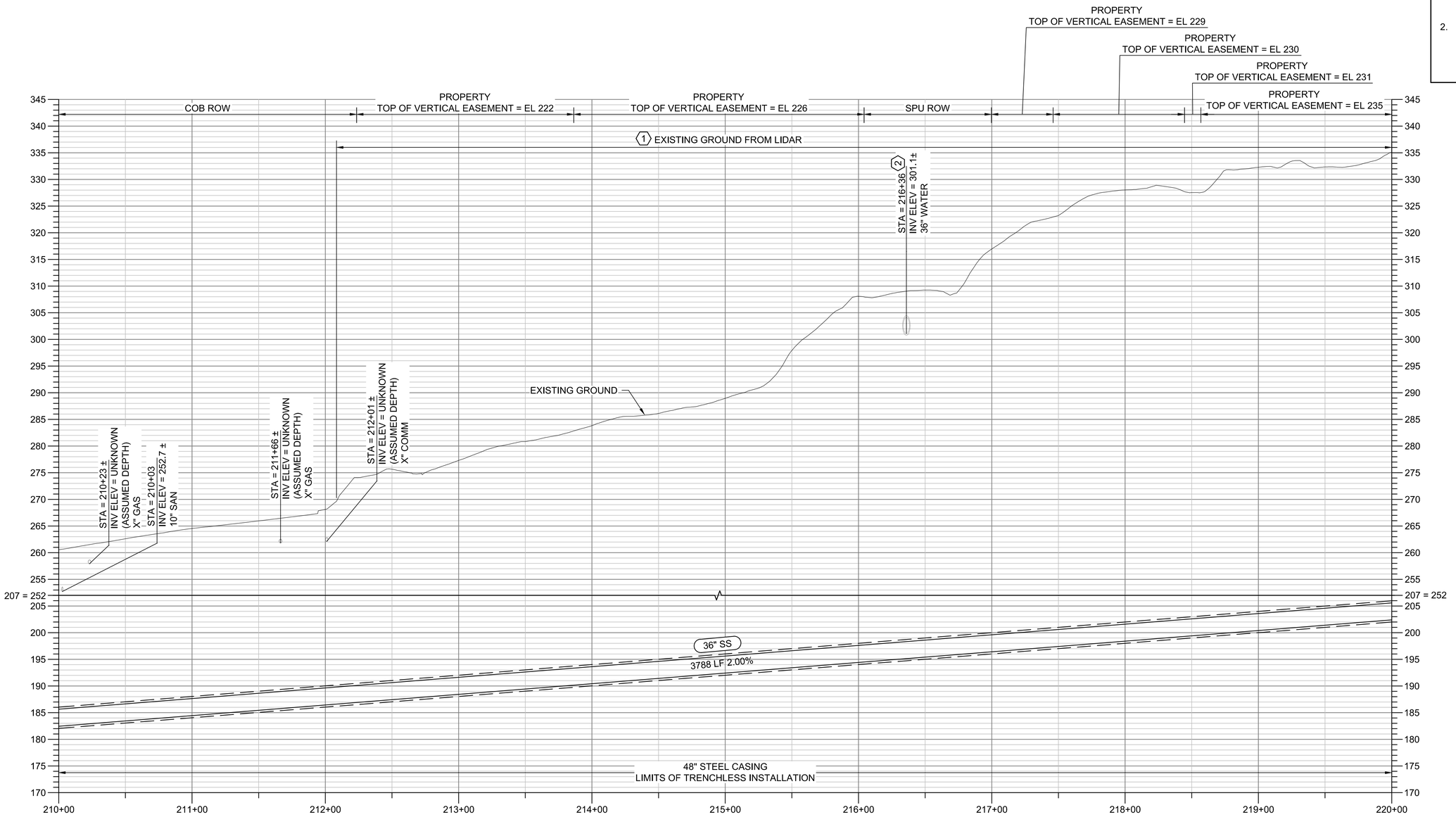
# DIRECT PIPE PLAN, STA 210+00 TO STA 220+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10013
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\sherryae\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\aaron.sherry@jacobs.com\d0406435\CCT900-C-10013.dwg | Layout: CCT900-C-10013
PLOTTED: Nov 24, 2020-12:08:02am By sherryae
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; zexistingdata.DWG; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

## KEY NOTES

1. UTILITIES NOT SHOWN IN AREAS WHERE LIDAR IS USED FOR EXISTING GROUND SURFACE. UTILITIES NOT ANTICIPATED AT DEPTH OF WORK. CONTRACTOR TO CONFIRM.
2. LOCATION AND DEPTH OF EXISTING 36" WATER IS FROM 1956 AS-BUILTS, SPU VAULT #776-65, AND IS APPROXIMATE.




## PROFILE

SCALE: H 1" = 40', V 1" = 10'

0 40 80
SCALE IN FEET
V: 1" = 10'

REFERENCE 0 1"

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\sherryae\AppData\Local\Bentley\projectwiseworkingdir\brwncald-pw.bentley.com_brwncald-pw-01\aaron.sherry@jacobs.com\d0406435\CCT900-C-10014.dwg | Layout: CCT900-C-10014
PLOTTED: Sep 09, 2020-03.11:17pm By sherryae
XREFS: 900-123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; Critical_Areas_Basemap.dwg
IMAGES:

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

KERRY WILLIAM JACOBSEN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| DESIGNED/DRAWN: | CHECKED: |
|---|---|
| K. TOLLE | R. BARD |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | AS SHOWN |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

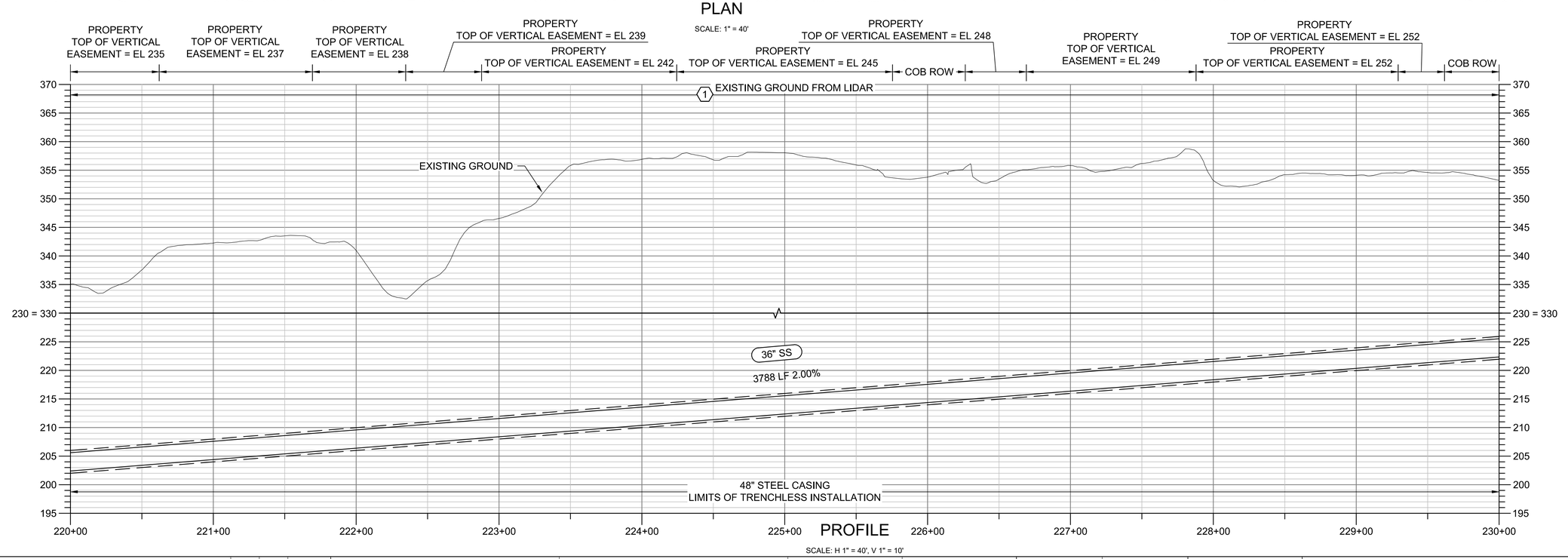
# DIRECT PIPE PROFILE, STA 210+00 TO STA 220+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10014
SHT NO / TOTAL: X / #
REV NO:

PROJECT LOCATION:
NO SURFACE LOCATIONS. SUBSURFACE ONLY.

PLAN

SCALE: 1" = 40'




PROFILE

SCALE: H 1" = 40', V 1" = 10'

## GENERAL NOTES

1. SEE DETAIL A/CCT900-C-40051 FOR DIRECT PIPE STEEL CASING.

## KEY NOTES

1. UTILITIES NOT SHOWN IN AREAS WHERE LIDAR IS USED FOR EXISTING GROUND SURFACE. UTILITIES NOT ANTICIPATED AT DEPTH OF WORK. CONTRACTOR TO CONFIRM.

## LAND USE OVERLAY LEGEND

STEEP SLOPE
GEOLOGIC HAZARD

0 40 80
SCALE IN FEET
V: 1" = 10'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DIRECT PIPE PLAN AND PROFILE, STA 220+00 TO STA 230+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10015
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Sep 17, 2020-10:48:30pm By sherrya
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION

## LAND USE OVERLAY LEGEND

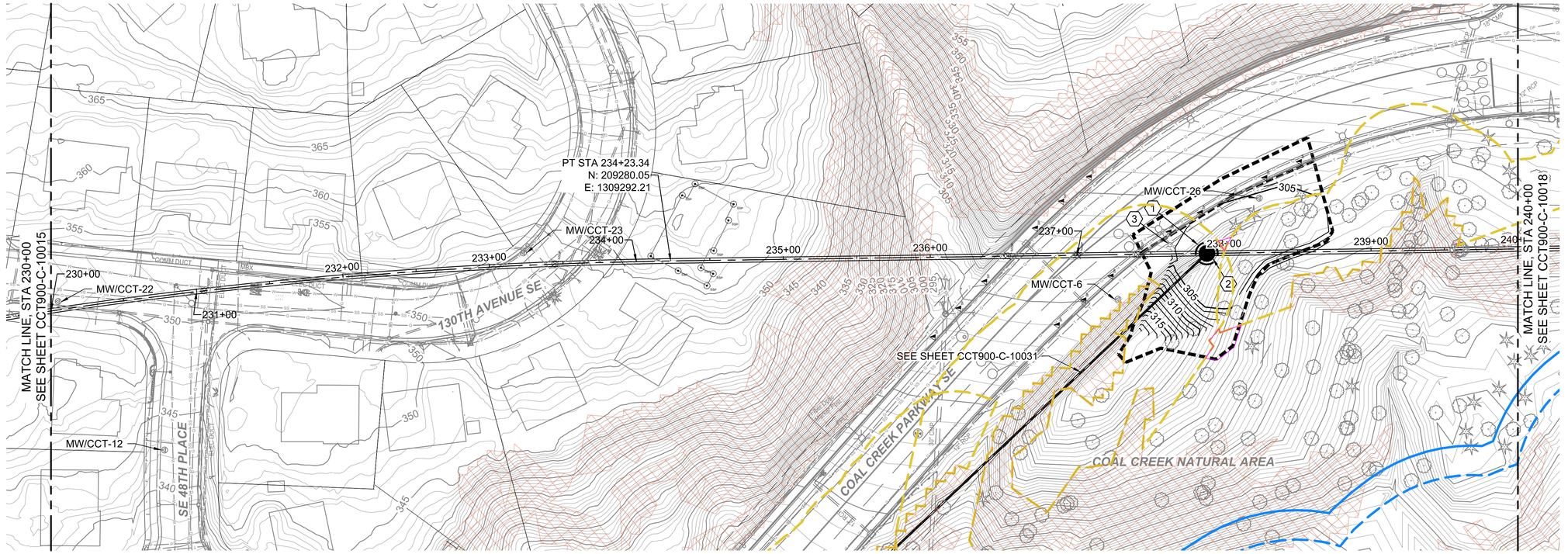
- STEEP SLOPE GEOLOGIC HAZARD
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

## GENERAL NOTES

1. SEE DETAIL A/CCT900-C-40051 FOR DIRECT PIPE STEEL CASING.
2. SEE THE FOLLOWING SHEET, CCT900-C-10017, FOR PROFILE.

## KEY NOTES

1. SEE SHEET CCT900-C-10121 FOR SITE PLAN OF MICROTUNNEL RECEIVING SHAFT.
2. MAINTENANCE HOLE RE*COAL.R33-05 TO BE BUILT ON DIRECT PIPE ALIGNMENT, FOLLOWING INSTALLATION OF DIRECT PIPE.
3. PROTECT LIGHT POLE IN PLACE.




PLAN

SCALE: 1" = 40'

0 40 80
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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STATE OF WASHINGTON · WILLIAM JACOBSEN · 46074 · REGISTERED PROFESSIONAL ENGINEER

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|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

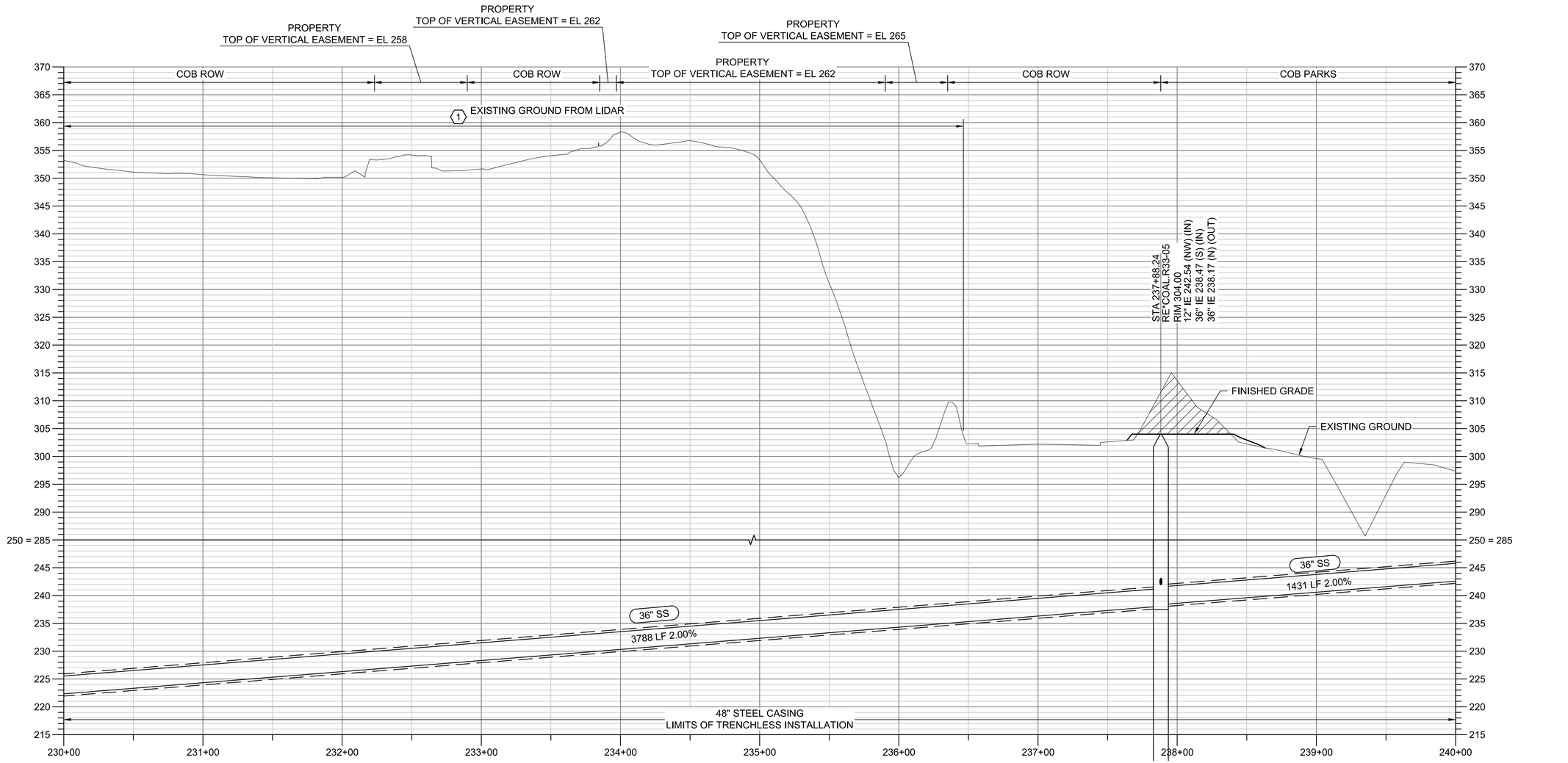
# DIRECT PIPE PLAN, STA 230+00 TO STA 240+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10016
SHT NO / TOTAL: X / #
REV NO:


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\sherryae\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\aaron.sherry@jacobs.com\d0406435\CCT900-C-10016.dwg | Layout: CCT900-C-10016
PLOTTED: Nov 24, 2020-12:14:01am By sherryae
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

## KEY NOTES

1. UTILITIES NOT SHOWN IN AREAS WHERE LIDAR IS USED FOR THE EXISTING GROUND SURFACE. UTILITIES NOT ANTICIPATED AT DEPTH OF WORK. CONTRACTOR TO CONFIRM.




PROFILE

SCALE: H 1" = 40', V 1" = 10'

0 40 80
SCALE IN FEET
V: 1" = 10'

REFERENCE 0 1"

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\sherryae\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\aaron.sherry@jacobs.com\d0406435\CCT900-C-10017.dwg | Layout: CCT900-C-10017
PLOTTED: Sep 09, 2020-03:29:26pm By sherryae
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; Critical_Areas_Basemap.dwg
IMAGES:

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

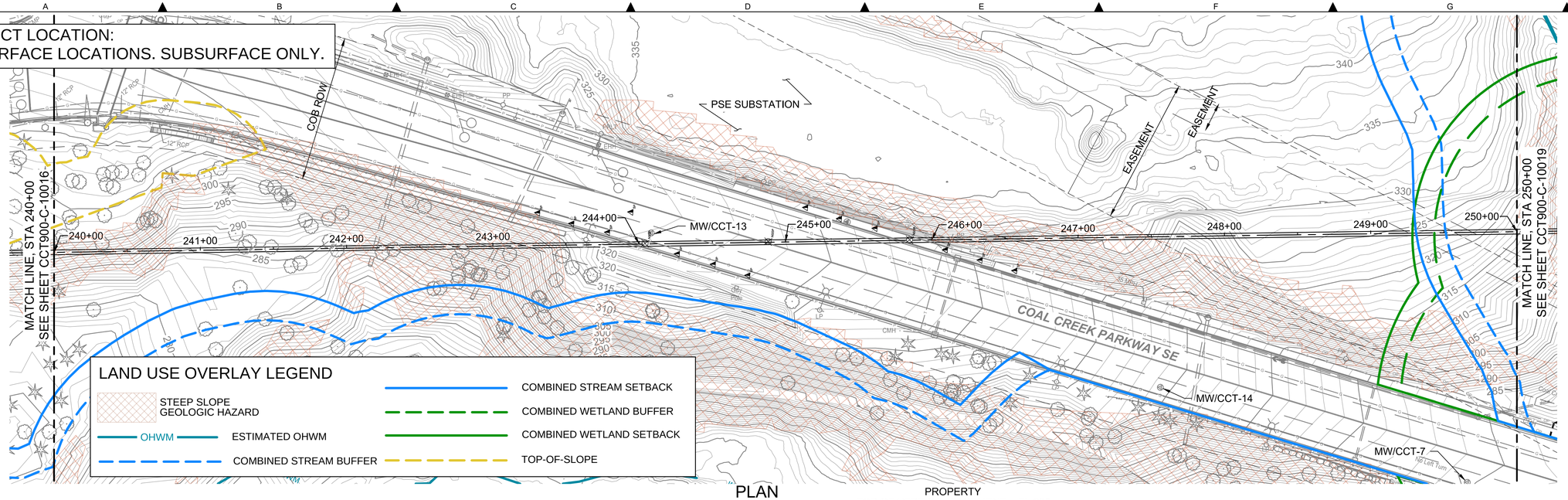
# DIRECT PIPE PROFILE, STA 230+00 TO STA 240+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10017
SHT NO / TOTAL: X / #
REV NO:

PROJECT LOCATION:
NO SURFACE LOCATIONS. SUBSURFACE ONLY.

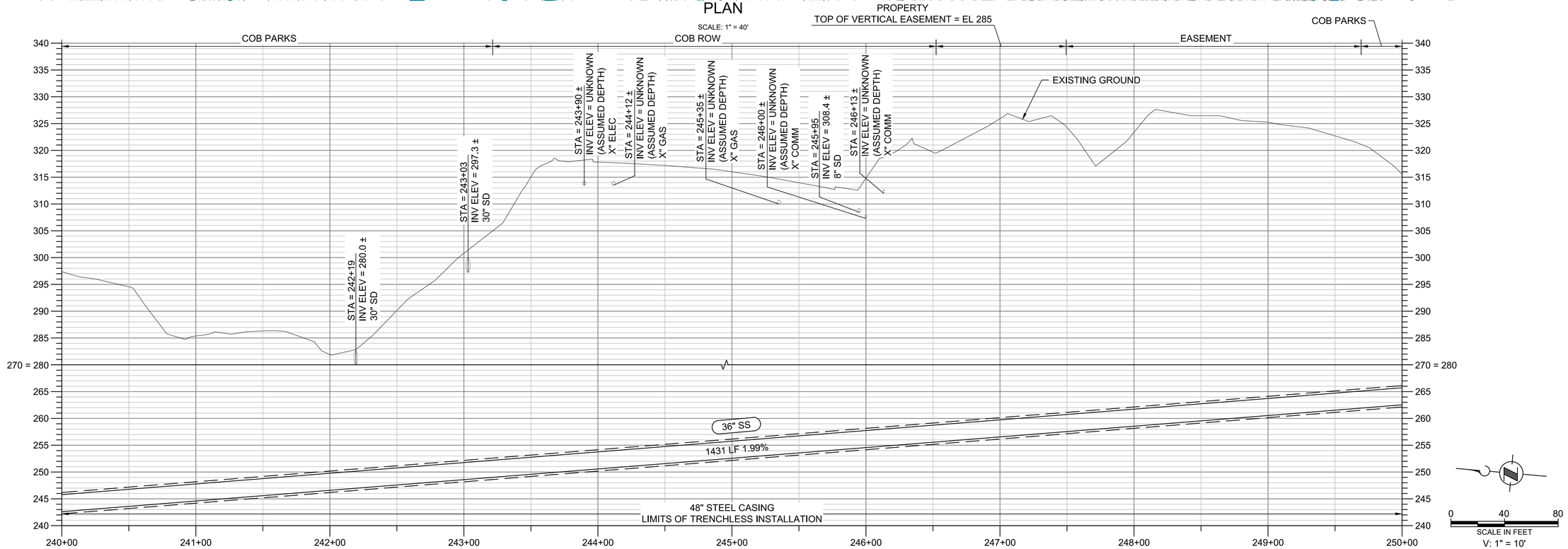
## GENERAL NOTES

1. SEE DETAIL A/CCT900-C-40051 FOR DIRECT PIPE STEEL CASING.




PLAN

SCALE: 1" = 40'




PROFILE

SCALE: H 1" = 40', V 1" = 10'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

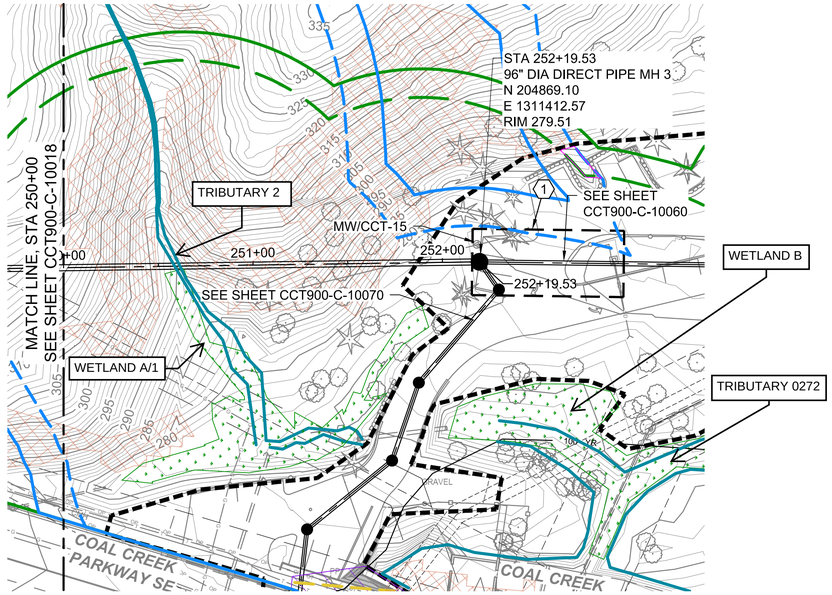
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DIRECT PIPE PLAN AND PROFILE, STA 240+00 TO STA 250+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10018
SHT NO X / TOTAL # REV NO:

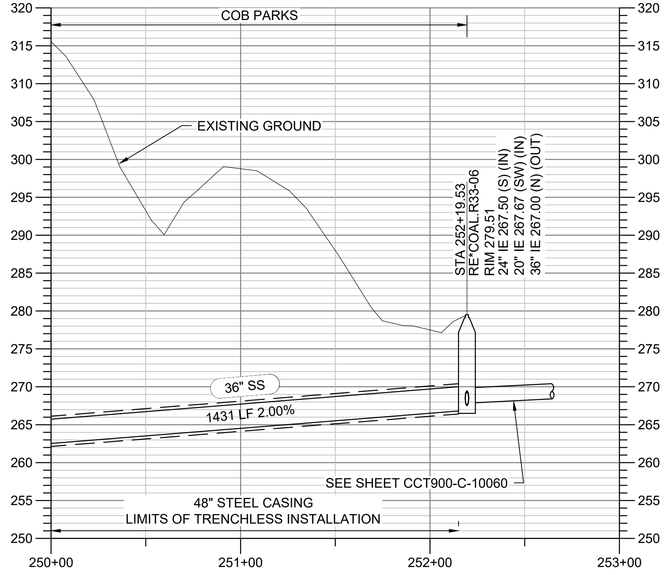
BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\sherryae\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\aaron.sherry@jacobs.com\d0406435\CCT900-C-10018.dwg | Layout: CCT900-C-10018
PLOTTED: Sep 17, 2020-11:01:37pm By sherryae
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR AND SPUR




PLAN

SCALE: 1" = 40'




PROFILE

SCALE: H 1" = 40', V 1" = 10'

## KEY NOTES

1. SEE SHEET CCT900-C-10120 FOR SITE PLAN OF DIRECT PIPE LAUNCH PIT.

## LAND USE OVERLAY LEGEND

- HUMAN-MADE FILL-NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

0 40 80
SCALE IN FEET
V: 1" = 10'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
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DECEMBER 2020

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DIRECT PIPE PLAN AND PROFILE, STA 250+00 TO STA 253+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10019
SHT NO: X / TOTAL: # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.philippon@jacobs.com\d0406435\CCT900-C-10019.dwg | Layout: CCT900-C-10019
PLOTTED: Dec 07, 2020-01:09:40pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
ESI CONNECTION AND CONDOS

MW/CCT-19
RIM 183.23
SEE SHEET CCT900-C-10011
SEE SHEET CCT900-C-10012
EXISTING 12" SD
MW/CCT-8
300+00
301+00
302+00
303+00
304+00
MW/CCT-20
STA 300+14.34
48" DIA RE*COAL.R33-04A
N 209265.73
E 1309291.39
RIM 181.21
STA 301+91.85
48" DIA RE*COAL.R33-04B
N 209112.12
E 1309380.35
RIM 180.88
STA 302+62.93 (1) (4)
48" DIA EXISTING MANHOLE
N 209054.32
E 1309422.07
RIM 175.39
STA 302+64.20
48" DIA RE*COAL.R33-04C
N 209050.39
E 1309418.09
RIM 179.33
STA 303+83.39
48" DIA RE*COAL.R33-04D
N 208966.60
E 1309502.85
RIM 181.74
(SE) (OUT)
COAL CREEK
WETLAND D/E
MATCH LINE SEE SHEET CCT900-C-10031

PLAN

SCALE: 1" = 20'

STA 200+00.00
RE*COAL.R33-04
RIM 183.23
36" IE 162.61 (SE) (IN)
8" IE 165.00 (S) (IN)
36" IE 162.00 (W) (OUT)

STA 300+14.34
RE*COAL.R33-04A
RIM 181.21
8" IE 168.90 (SE) (IN)
8" IE 168.80 (N) (OUT)

STA = 300+93
INV ELEV = 176.7 ±
12" SD

EXISTING GROUND

STA = 301+74
INV ELEV = 175.8 ±
12" SD

STA = 301+82
INV ELEV = 177.2 ±
8" ABANDONED GAS

STA 301+91.85
RE*COAL.R33-04B
RIM 180.88
8" IE 170.78 (SE) (IN)
8" IE 170.68 (NW) (OUT)

STA = 302+34
INV ELEV = 174.5 ±
12" SD

STA 302+64.20
RE*COAL.R33-04C
RIM 179.33
8" IE 171.40 (SE) (IN)
8" IE 171.50 (NE) (IN)
8" IE 171.50 (NW) (OUT)

STA 303+83.39
RE*COAL.R33-04D
RIM 181.74
8" IE 177.28 (E) (IN)
18" IE 176.86 (E) (IN)
8" IE 176.74 (NW) (OUT)

8" SS
14 LF 26.50%
178 LF 1.00%
72 LF 1.00%
119 LF 4.48%

TRENCH SECTION C CCT900-C-40050
LIMITS OF SLIPLINE INSTALLATION G CCT900-C-40051

PROFILE

SCALE: H 1" - 20', V 1" = 5'

## GENERAL NOTES

1. SEE SHEET CCT900-C-10100 FOR DECOMMISSIONING.
2. SEE SHEET CCT900-C-10165 FOR CREEK RESTORATION.

## KEY NOTES

1. CORE DRILL MAINTENANCE HOLE AND RE-CHANNEL INVERT. CONNECT TO RE*COAL.R33-04C WITH 8" PVC PIPE SLOPED AT 2%.
2. REMOVE EX. MH AS NEEDED TO FACILITATE SLIP LINING OF EXISTING 18" PIPE WITH NEW 8" HDPE PIPE.
3. SLIP LINE EXISTING 18" PIPE WITH NEW 8" HDPE PIPE. POSITION NEW PIPE WITH CENTRALIZERS. GROUT ANNULAR SPACE, SEE DETAIL C/CCT900-C-40051.
4. SUPPORT AND PROTECT MH IN PLACE.

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- SINGLE-FAMILY TRANSITION AREA

0 20 40
SCALE IN FEET
V: 1" = 5'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

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| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1" = 20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# OPEN CUT PIPE AT CONDOS PLAN AND PROFILE

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10030
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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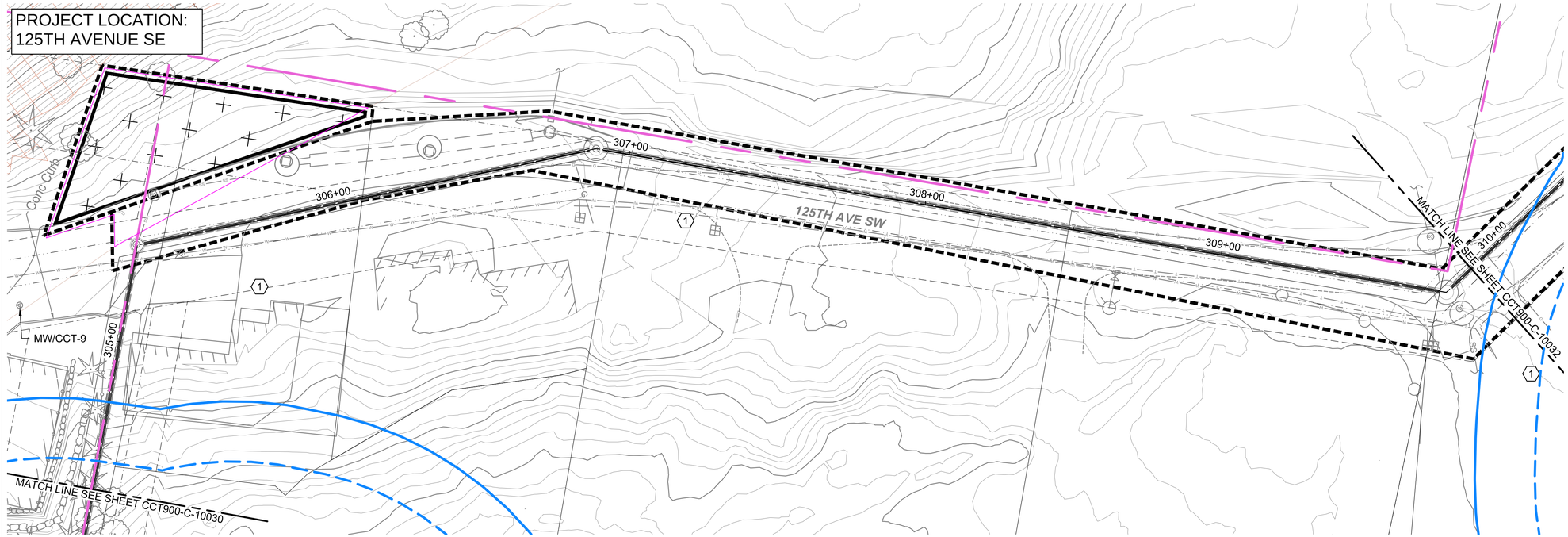
PLOTTED: Dec 07, 2020-01:36:55pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:




PLAN

SCALE: 1" = 20'

## GENERAL NOTES

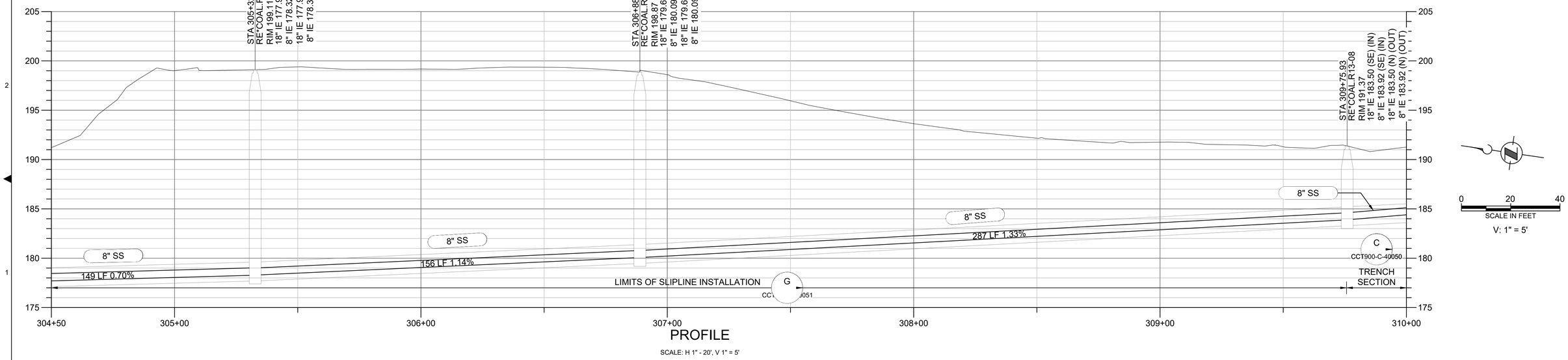
1. SEE SHEET CCT900-C-10100 FOR DECOMMISSIONING.
2. REFORM ALL SLIP LINED MH INVERTS SO THERE IS SMOOTH FLOW THROUGH THE STRUCTURE BASED ON NEW POSITION OF THROUGH PIPES.

## KEY NOTES

1. SLIP LINE EXISTING 18" PIPE WITH NEW 8" HDPE PIPE. POSITION NEW PIPE IN THE CENTER OF EXISTING PIPE WITH CENTRALIZERS. GROUT ANNULUS SPACE. RECHANNEL MH'S TO PROVIDE A SMOOTH TRANSITION TO NEW PIPE. SEE DETAIL C/CCT900-C-40051.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- SINGLE-FAMILY TRANSITION AREA
- DESIGNATED CRITICAL HABITAT AREA




PROFILE

SCALE: H 1" - 20', V 1" = 5'

0 20 40
SCALE IN FEET
V: 1" = 5'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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STATE OF WASHINGTON WILLIAM JACOBSEN 46074 REGISTERED PROFESSIONAL ENGINEER

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| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

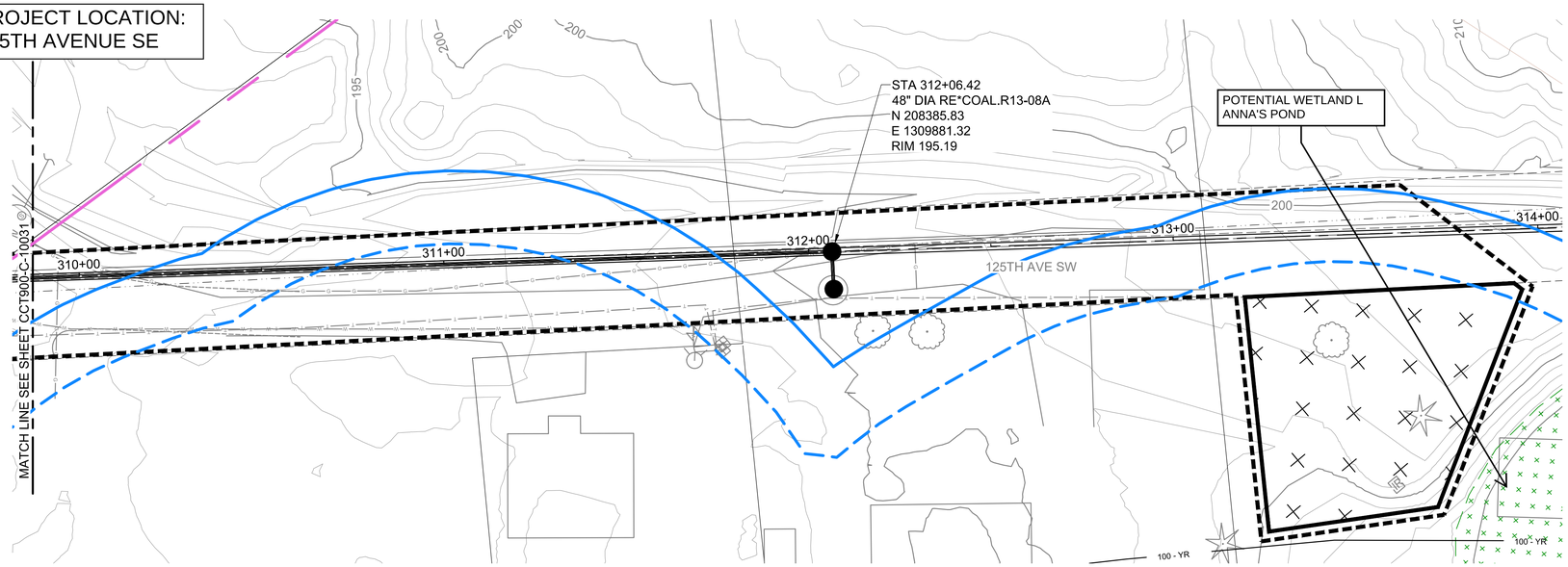
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# 125TH AVENUE SE SEWER MODIFICATIONS PLAN AND PROFILE

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10031
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-10031.dwg | Layout: CCT900-C-10031
PLOTTED: Dec 07, 2020-01:45:32pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
125TH AVENUE SE




PLAN

SCALE: 1" = 20'

## LAND USE OVERLAY LEGEND

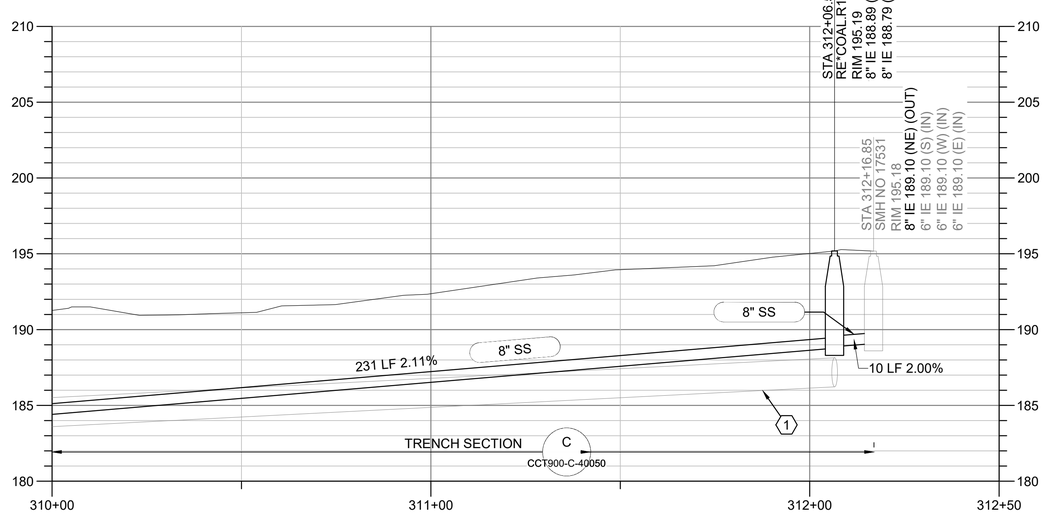
- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- ESTIMATED WETLAND
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE-FAMILY TRANSITION AREA

## GENERAL NOTES

1. SEE SHEET CCT900-C-10100 FOR DECOMMISSIONING.

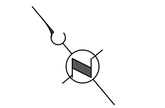
## KEY NOTES

1. REMOVE EX. 18" RCP PIPE.




PROFILE

SCALE: H 1" - 20', V 1" = 5'




V: 1" = 5'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# 125TH AVENUE SE SEWER MODIFICATIONS PLAN AND PROFILE

| | |
|---|---|
| DATE: | DECEMBER 2020 |
| DRAWING NO: | CCT900-C-10032 |
| SHT NO / TOTAL | # |
| REV NO: | |

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Dec 07, 2020-02:01:13pm By: JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATIONS

## LAND USE OVERLAY LEGEND

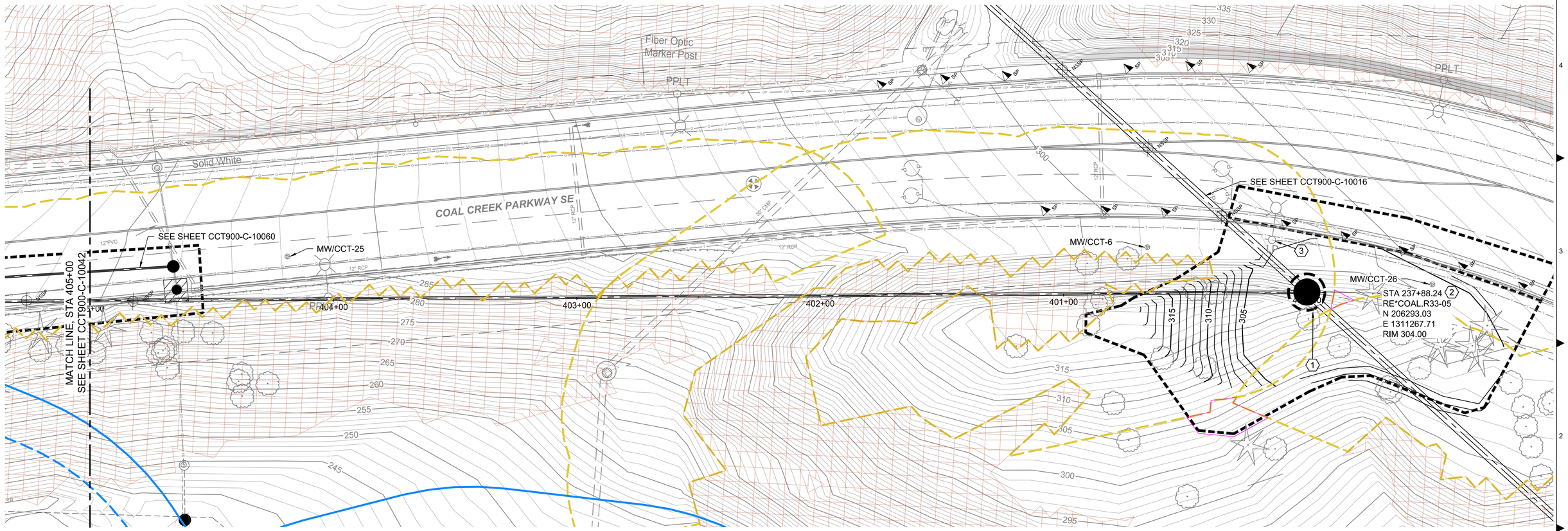
- STEEP SLOPE GEOLOGIC HAZARD
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

## GENERAL NOTES

1. SEE DETAIL D/CCT900-C-40051 FOR MICROTUNNEL CASING.

## KEY NOTES

1. SEE SHEET CCT900-C-10120 FOR SITE PLAN OF MICROTUNNEL RECEIVING SHAFT.
2. CONSTRUCT CHANNELING OR USE INTERNAL DROP CONNECTION PER B/CCT900-C-40050 TO DIRECT FLOW FROM 12" PIPE DOWNSTREAM.
3. PROTECT LIGHT POLE IN PLACE.




0 20 40
SCALE IN FEET

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|---|---|---|---|---|

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|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1" = 20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

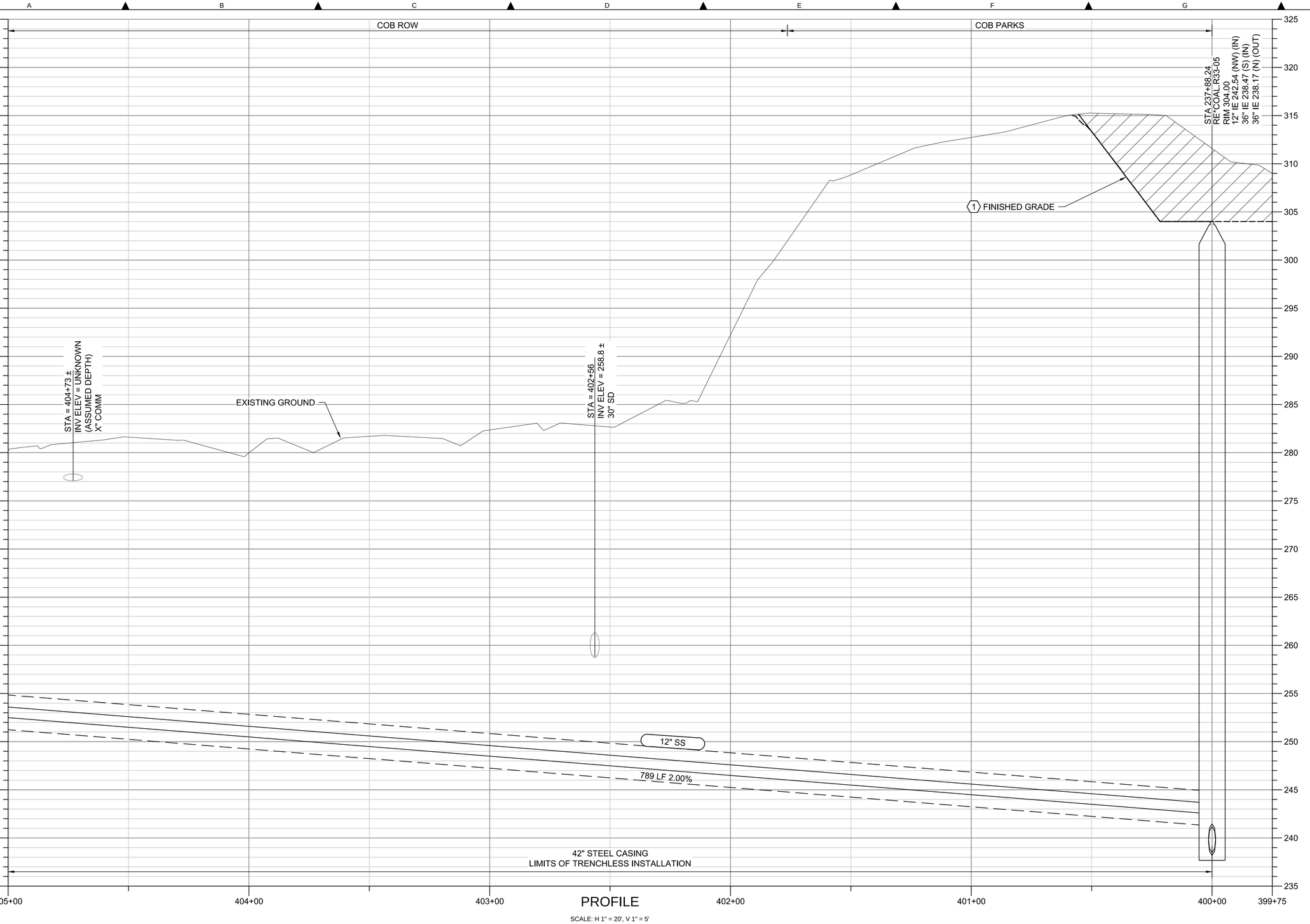
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MICROTUNNEL PLAN, STA 400+00 TO STA 405+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10040
SHT NO / TOTAL: X / #
REV NO:


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.philippon@jacobs.com\d0406435\CCT900-C-10040.dwg | Layout: CCT900-C-10040
PLOTTED: Dec 07, 2020-02:53:20pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:




PROFILE

SCALE: H 1" = 20', V 1" = 5'

## KEY NOTES

1. SEE SHEET CCT900-C-10121 FOR GRADING.

0 20 40
SCALE IN FEET
V: 1" = 5'

REFERENCE 1" 0

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| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1" = 20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MICROTUNNEL PROFILE, STA 400+00 TO STA 405+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10041
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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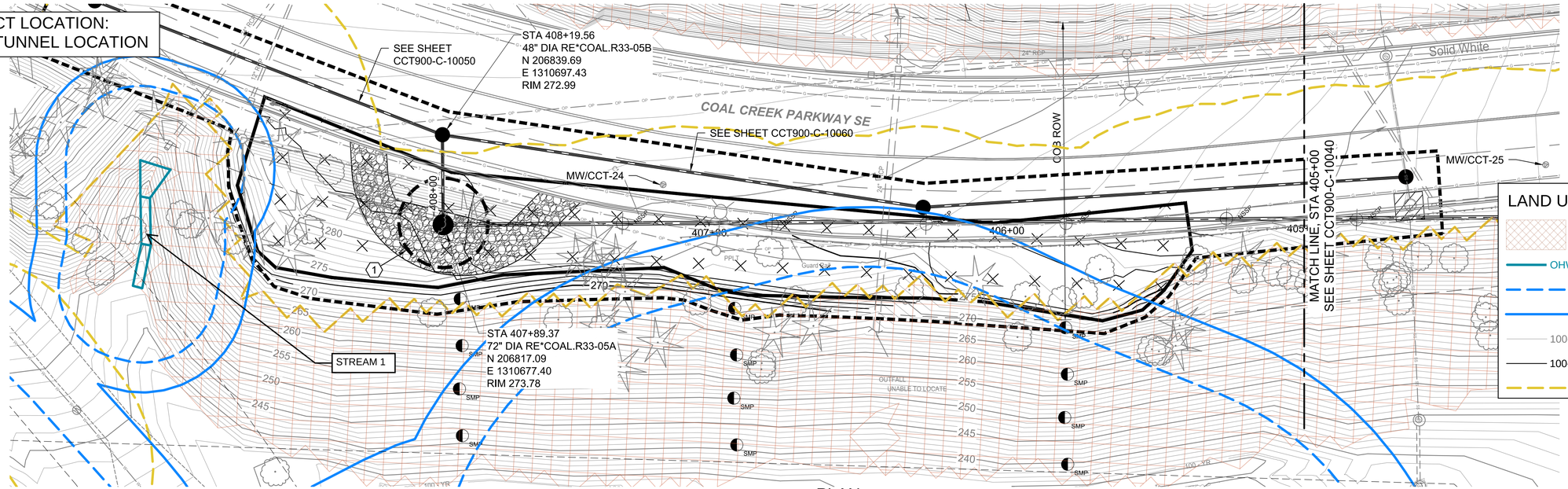
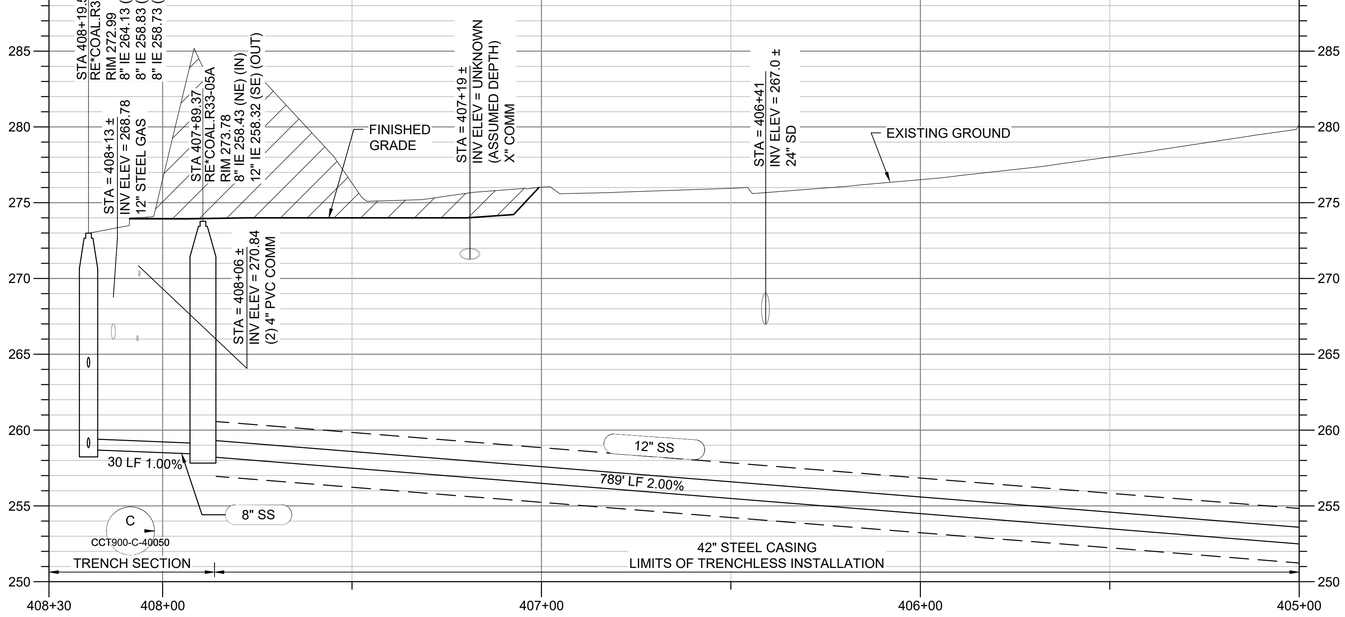
PLOTTED: Jul 29, 2020-10:17:32am By kinseym2
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION




PLAN

SCALE: 1" = 20'




PROFILE

SCALE: 1" = 20', V 1" = 5'

## GENERAL NOTES

1. SEE DETAIL D/CCT900-C-40051 FOR MICROTUNNEL CASING.

## KEY NOTES

1. SEE SHEET CCT900-C-10122 FOR SITE PLAN OF MICROTUNNEL LAUNCH SHAFT.
2. INSTALL INSIDE DROP CONNECTION PER DETAIL B/CCT900-C-40050.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET
V: 1" = 5'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1" = 20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

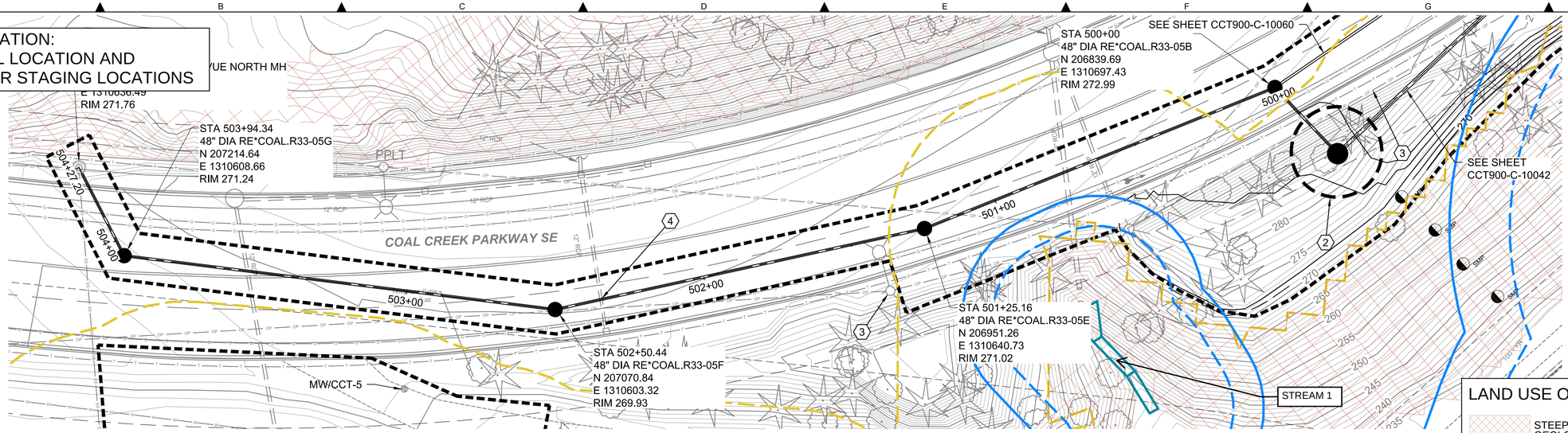
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MICROTUNNEL PLAN AND PROFILE, STA 405+00 TO STA 408+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10042
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\04064435\CCT900-C-10042.dwg | Layout: CCT900-C-10042
PLOTTED: Dec 07, 2020-03:14:48pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION AND
SPU CORRIDOR STAGING LOCATIONS




PLAN

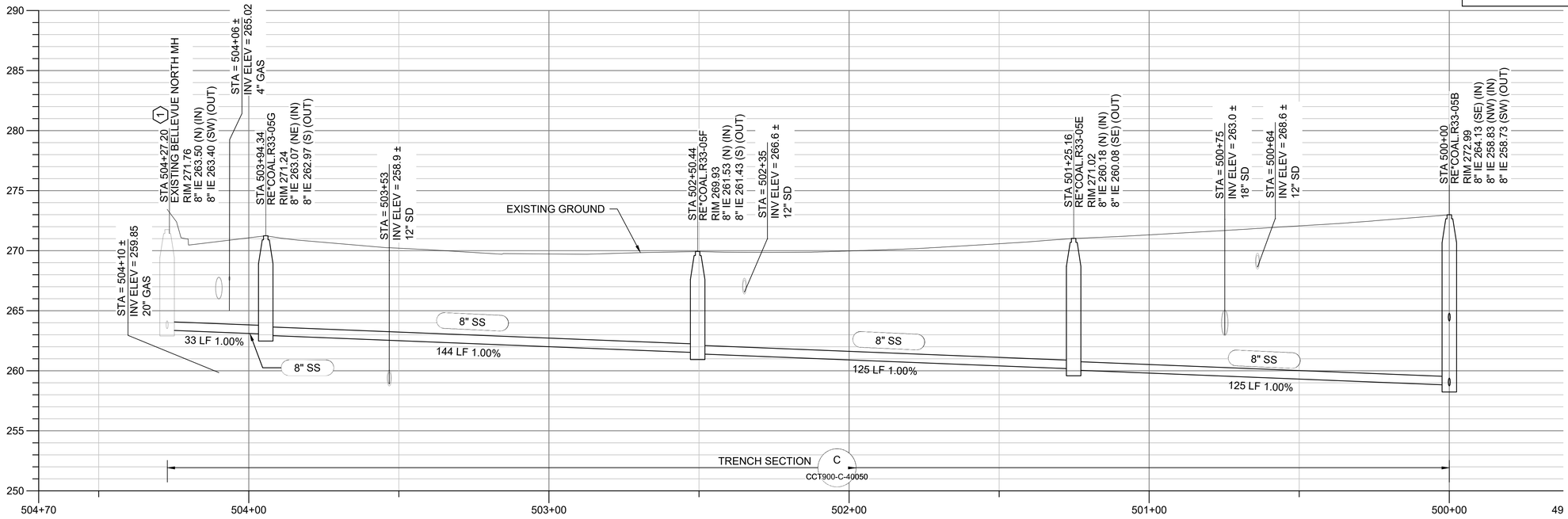
SCALE: 1" = 20'

## KEY NOTES

1. PLUG EXISTING OUTLET PIPE WITH CONCRETE. FILL BOTTOM OF MAINTENANCE HOLE WITH CONCRETE UP TO INVERT OF NEW CONNECTION. RE-CHANNEL PER WTD STANDARDS. CORE DRILL NEW 8" OUTLET.
2. SEE SHEET CCT900-C-10122 FOR SITE PLAN OF MICROTUNNEL LAUNCH SHAFT.
3. PROTECT IN PLACE OVERHEAD POWER AND LIGHT POLES. COORDINATE TO DE-ENERGIZE AS NECESSARY.
4. PROTECT IN PLACE STORM SYSTEM.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE




PROFILE

SCALE: 1" = 20', V 1" = 5'

0 20 40
SCALE IN FEET
V: 1" = 5'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: H 1"=20', V 1"=4' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

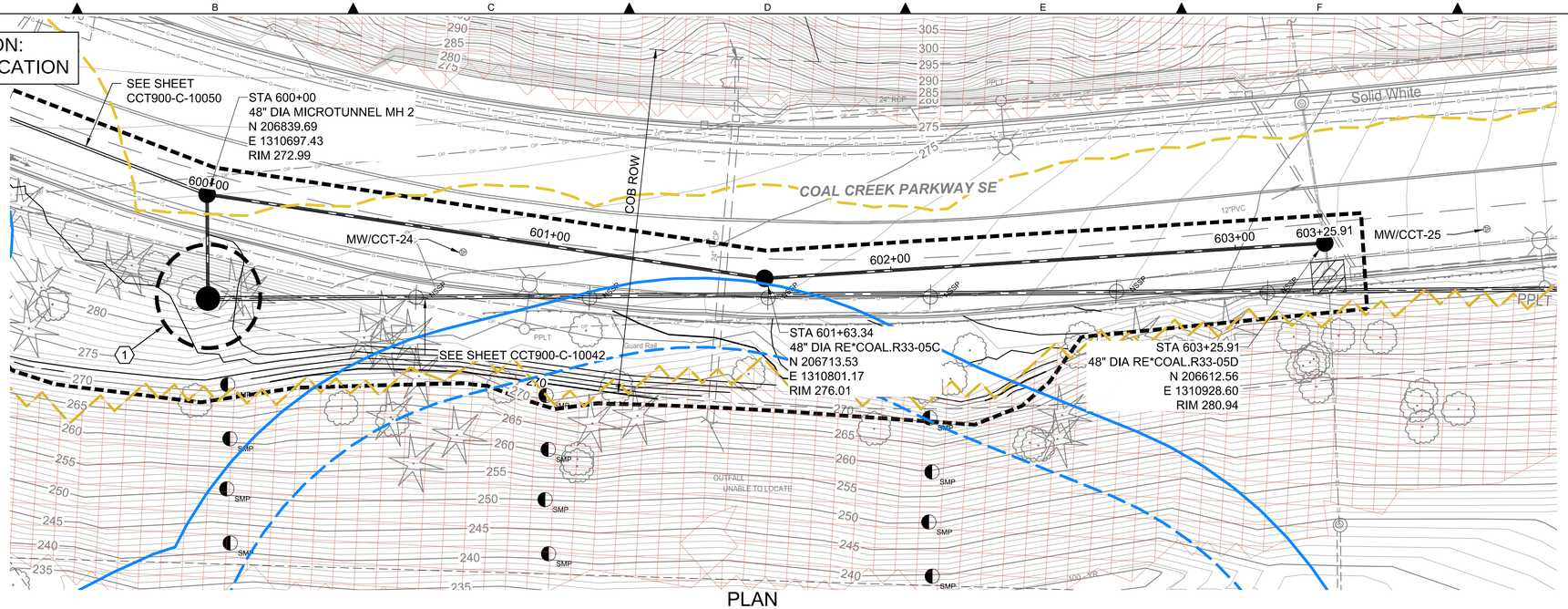
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE OPEN CUT NORTH PIPE PLAN AND PROFILE

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10050
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-10050.dwg | Layout: CCT900-C-10050
PLOTTED: Dec 07, 2020-03:27:27pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION




PLAN

SCALE: 1" = 20'




PROFILE

SCALE: H 1" = 20', V 1" = 5'

## KEY NOTES

1. SEE SHEET CCT900-C-10122 FOR SITE PLAN OF MICROTUNNEL LAUNCH SHAFT.
2. INSTALL INTERNAL DROP CONNECTION PER DETAIL B/CCT900-C-40050.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET
V: 1" = 5'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: H 1"=20', V 1"=4' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE OPEN CUT SOUTH PIPE PLAN AND PROFILE

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10060
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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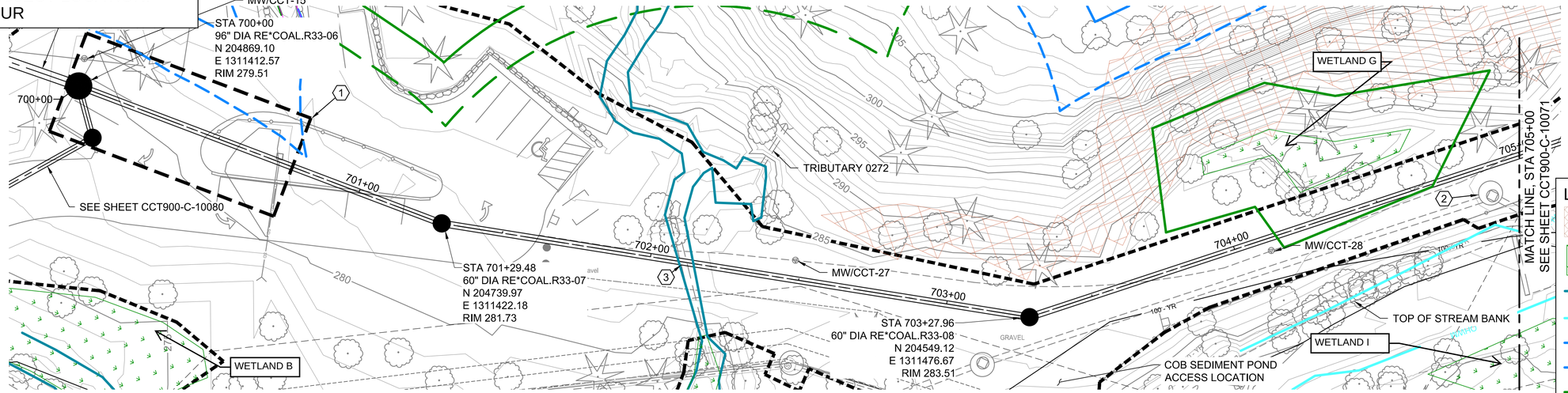
PLOTTED: Dec 07, 2020-03:34:02pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624SETMON.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SPUR




PLAN

SCALE: 1" = 20'

## GENERAL NOTES

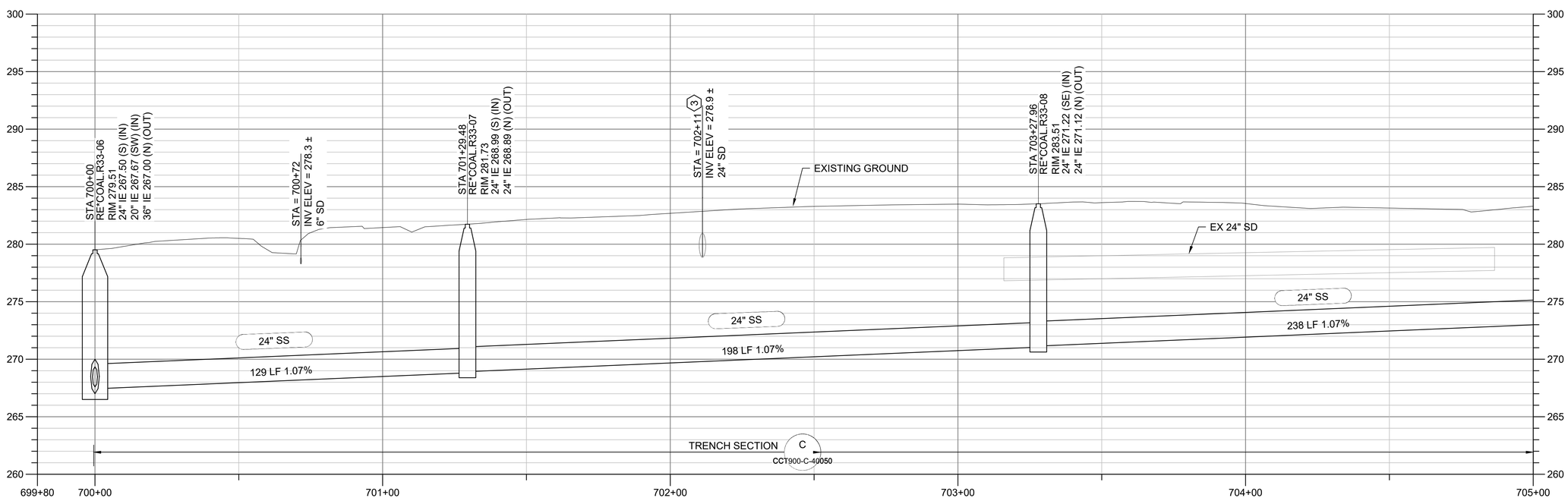
1. SEE SHEETS CCT900-C-10166 TO CCT900-C-10168 FOR CREEK RESTORATION.

## KEY NOTES

1. SEE SHEET CCT900-C-10102 FOR SITE PLAN OF DIRECT PIPE LAUNCH PIT.
2. PROTECT MH IN PLACE.
3. SUPPORT IN PLACE.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)




PROFILE

SCALE: H 1" = 20', V 1" = 5'

0 20 40
SCALE IN FEET
V: 1" = 5'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON · WILLIAM HAO · 46074 · REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: H 1" = 20', V 1" = 4' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

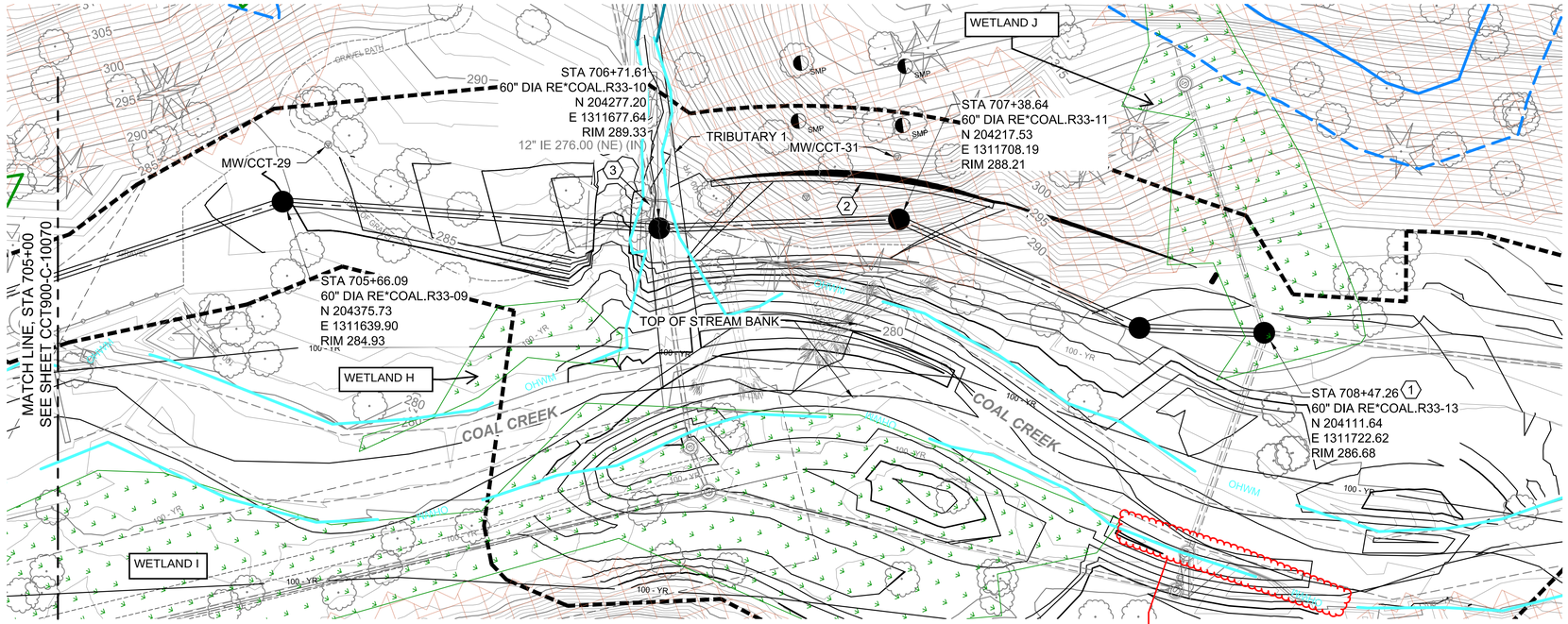
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# OPEN CUT PIPE AT SPUR PLAN AND PROFILE, STA 700+00 TO STA 705+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10070
SHT NO X / TOTAL # REV NO:


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwiseworking\d\brwncald-pw.bentley.com_brwncald-pw-01\julie.philippon@jacobs.com\d0406435\CCT900-C-10070.dwg | Layout: CCT900-C-10070
PLOTTED: Dec 07, 2020-03:35:23pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

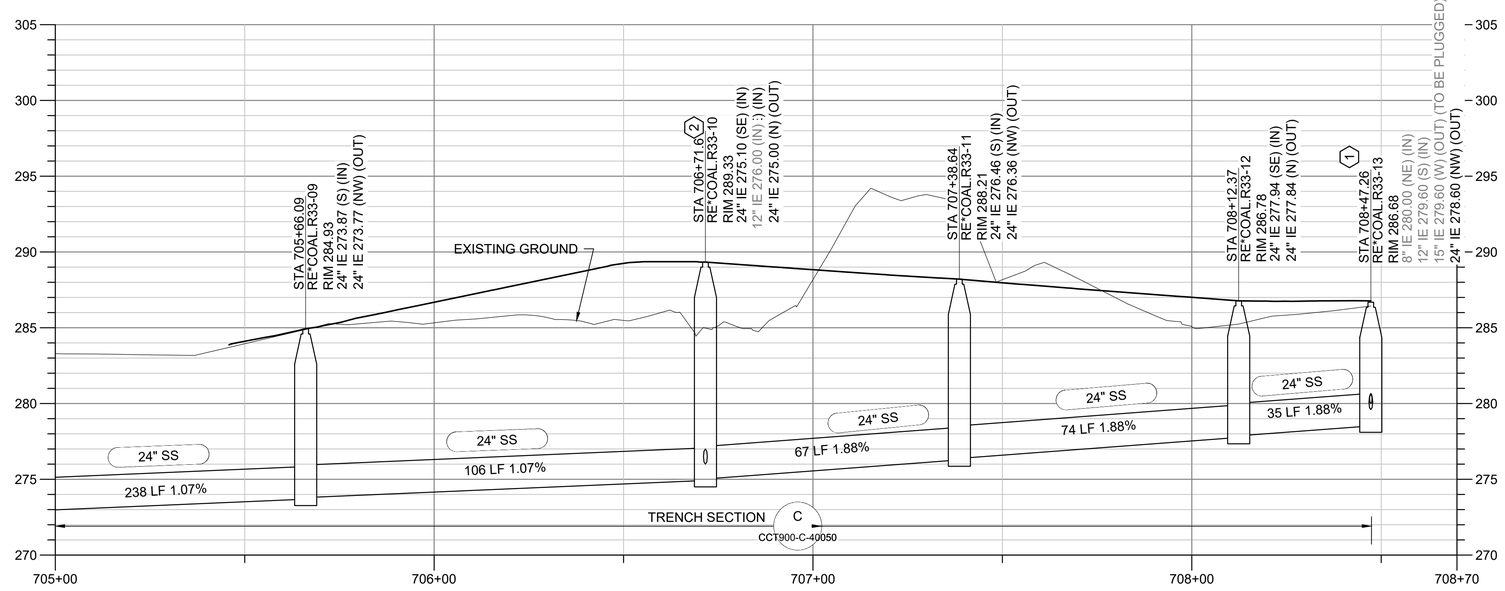
PROJECT LOCATION:
SPUR




PLAN

SCALE: 1" = 20'

MH25B TEMPORARY BENDWAY WEIRS AND BANK STABILIZATION INSTALLED IN AUGUST 2020 TO BE FULLY REMOVED DURING STREAM RESTORATION.




PROFILE

SCALE: H 1" = 20', V 1" = 5'

## GENERAL NOTES

1. SEE SHEETS CCT900-C-10166 TO CCT900-C-10168 FOR CREEK RESTORATION.

## KEY NOTES

1. REMOVE EX. 48" MH. REPLACE WITH NEW MH.
2. SEE SHEET CCT900-S-20070 FOR SITE PLAN OF SPUR RETAINING WALL AREA.
3. TRIBUTARY TO BE RELOCATED, SEE SHEET CCT900-L-XXXXX.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

0 20 40
SCALE IN FEET
V: 1" = 5'

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|---|---|---|---|---|

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STATE OF WASHINGTON · 48074 · REGISTERED PROFESSIONAL ENGINEER · JACOBSEN
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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: H 1" = 20', V 1" = 5' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# OPEN CUT PIPE AT SPUR PLAN AND PROFILE, STA 705+00 TO STA 708+50

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10071
SHT NO / TOTAL: X / #
REV NO:


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.philippon@jacobs.com\d0406435\CCT900-C-10071.dwg | Layout: CCT900-C-10071
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; PropRoadaISpur.dwg; 900-1123624SETMON.dwg; zexistingtdata-STRM.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR AND SPUR

STA 800+00 (4)
8' DIA DIRECT PIPE MH 3
N 204869.10
E 1311412.57
RIM 279.51

MW/CCT-15

SEE SHEET C-129

SEE SHEET CCT900-C-10070

STA 800+17.92
60" DIA RE*COAL.C4-29H
N 204857.59
E 1311398.83
RIM 279.25

TRIBUTARY 2

TRIBUTARY 0272

WETLAND A/1

WETLAND B

STA 801+83.92
60" DIA RE*COAL.C4-29E
N 204947.43
E 1311263.91
RIM 282.12

STA 802+23.08 (4)
60" DIA RE*COAL.C4-29D
N 204948.51
E 1311224.77
RIM 283.10

STA 802+94.58
60" DIA RE*COAL.C4-29C
N 204878.43
E 1311210.59
RIM 284.91

WETLAND AA

WETLAND BB

WETLAND 2

STA 805+75.12
60" DIA RE*COAL.C4-29B
N 204603.66
E 1311153.99
RIM 306.04

STA 806+47.58 (2)
60" DIA RE*COAL.C4-29A
N 204561.02
E 1311095.40
RIM 311.27

COAL CREEK

COAL CREEK PARKWAY SE

800+00 801+00 802+00 803+00 804+00 805+00 806+00 806+47.58

## GENERAL NOTES

1. ALL WORK FROM MH C4-29C TO MH C4-29A MUST BE COMPLETED IN THE PRESENCE OF AN OLYMPIC PIPELINE REPRESENTATIVE.

## KEY NOTES

1. SEE SHEET CCT900-C-10120 FOR SITE PLAN OF DIRECT PIPE LAUNCH PIT.
2. PLUG EXISTING OUTGOING PIPE WITH CONCRETE. SEE DETAIL A/CCT900-C-40055 FOR SADDLE DETAIL.
3. PROTECT STORM PIPE IN PLACE.
4. POLYMER MH PER SPEC 33 05 61.1.
5. REPLACE EXISTING SD INLET 5' TO THE NORTH.

## LAND USE OVERLAY LEGEND

- MANMADE FILL-NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: H 1" = 20', V 1" = 4' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# OPEN CUT PIPE AT SOUTH TRUNK CONNECTOR PLAN

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10080
SHT NO X / TOTAL #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillipson@jacobs.com\d04064435\CCT900-C-10080.dwg | Layout: CCT900-C-10080
PLOTTED: Dec 07, 2020-04:02:16pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; ExistingCulvert.dwg; 900-1123624SETMON.dwg; zexistingdata-STRM.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
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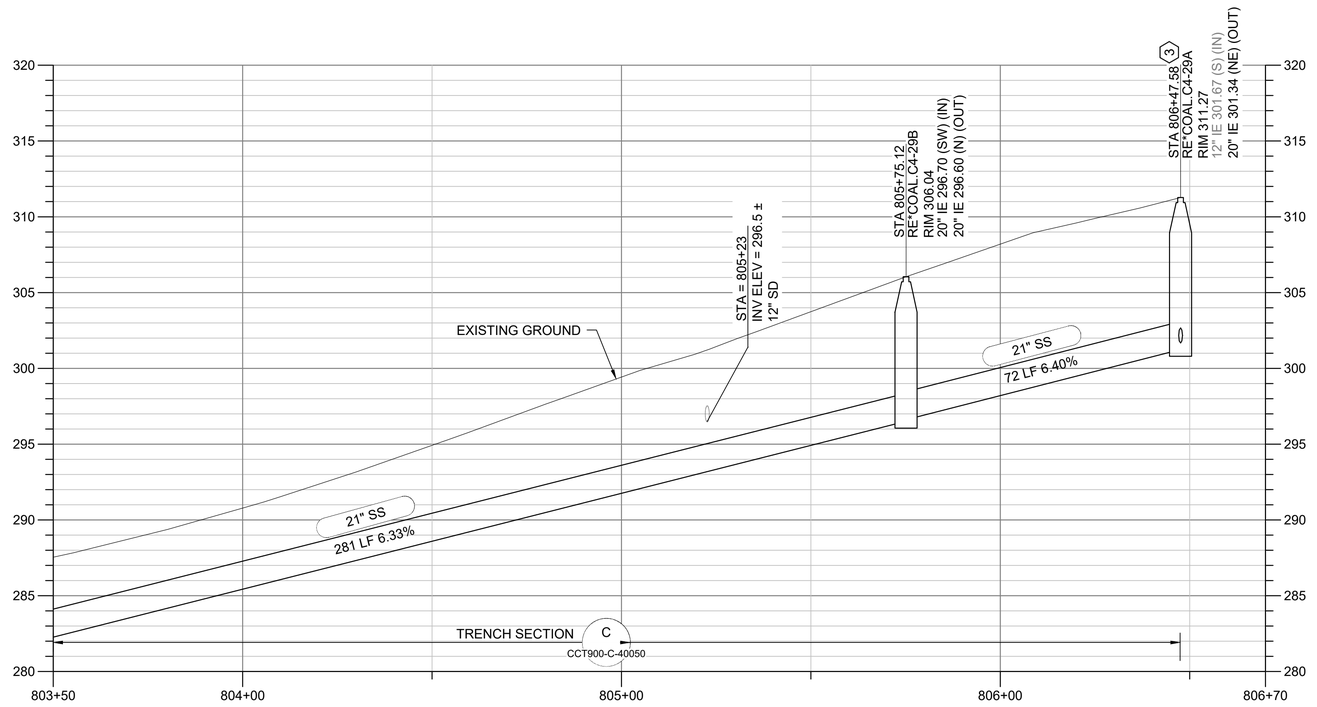


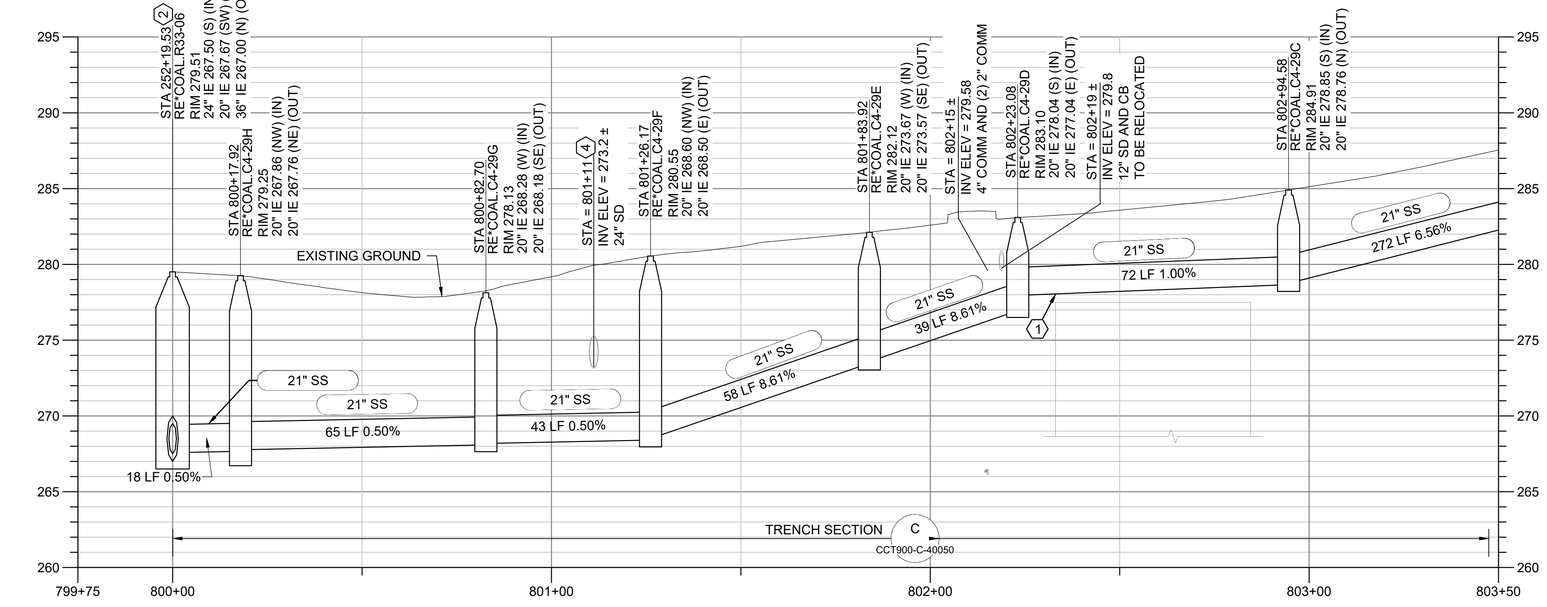


## KEY NOTES

1. CULVERT PROTECTION, 2" POLYETHYLENE FOAM PADDING.
2. SEE DETAIL D/CCT900-C-40055 FOR CHANNELING.
3. PLUG EXISTING OUTGOING PIPE WITH CONCRETE, SEE DETAIL CCT900-C-40055 FOR SADDLE.
4. TRIBUTARY 2 PIPE CROSSING. PROTECT STORM DRAIN PIPE IN PLACE.

SCALE IN FEET
0 20 40
V: 1" = 5'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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| PROJECT ENGINEER: R. JACOBSEN | SCALE: H 1"=20', V 1"=5' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# OPEN CUT PIPE AT SOUTH TRUNK CONNECTOR PROFILE

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10081
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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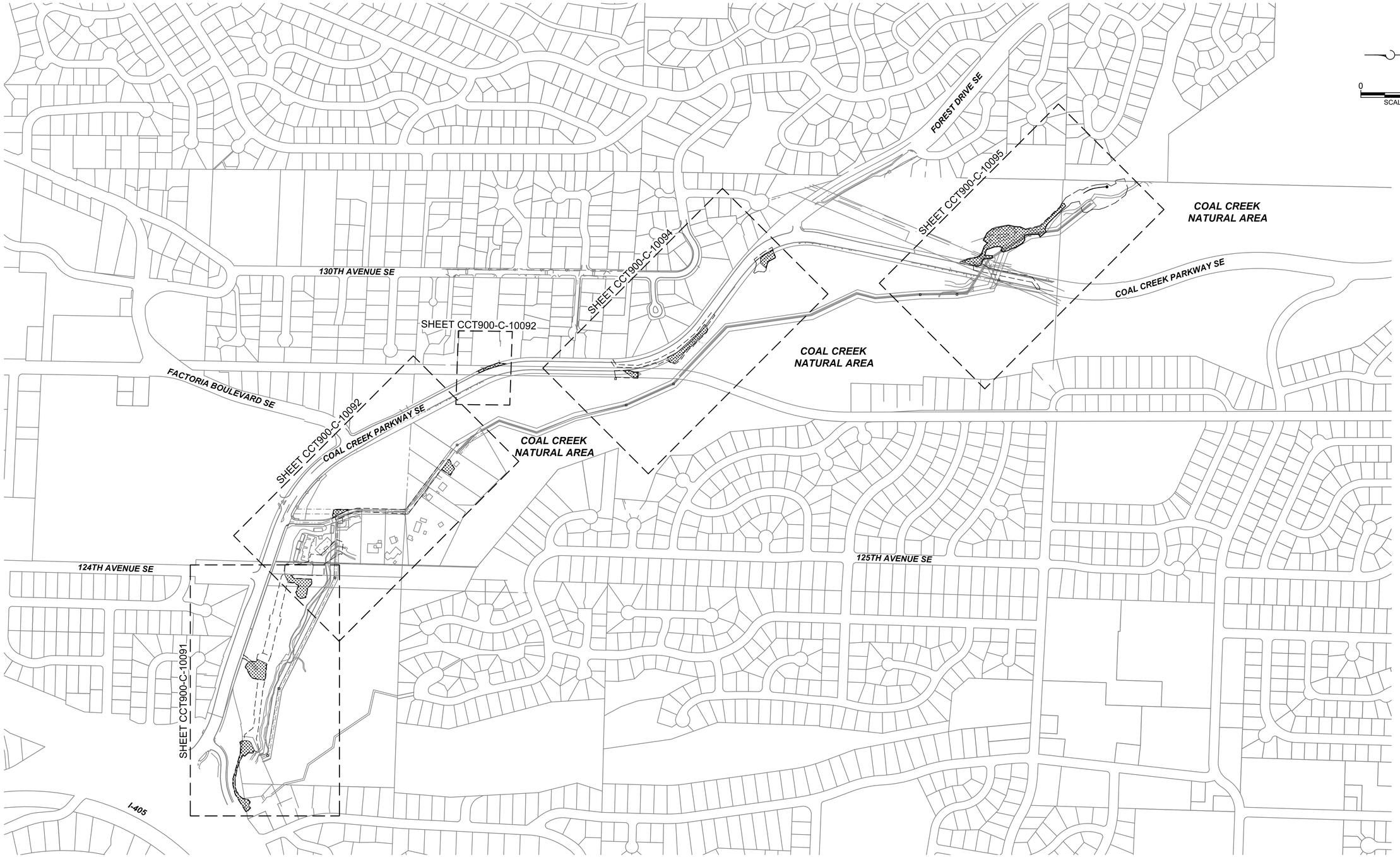


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| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STAGING KEY MAP

DATE: DECEMBER 2020

DRAWING NO: **CCT900-C-10090**

SHT NO / TOTAL: X / #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Nov 18, 2020-11:04:02am By sherrya
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
ESI CONNECTION

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- MANMADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

## KEY NOTES

1. COORDINATE WITH THE CITY OF BELLEVUE TO PROVIDE ACCESSIBILITY IN THIS AREA, RELATIVE TO THE CITY'S MAINTENANCE OF FLOW CONTROL STRUCTURE AND SEDIMENT POND. CITY WILL REQUIRE IMMEDIATE ACCESS FOLLOWING STORM EVENTS.

COAL CREEK PARKWAY SE

STAGING AREA 1

STAGING AREA 2

STAGING AREA 3

WETLAND A

WETLAND A

WETLAND F

WETLAND B1

WETLAND C

WETLAND D/E

1 WORK AREA 1

WORK AREA 2

COAL CREEK

OHWM

100 - YR

0 50 100
SCALE IN FEET

REFERENCE 1"
0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Dec 07, 2020-04:21:30pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

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STATE OF WASHINGTON · WILLIAM JACOBSEN · 46074 · REGISTERED PROFESSIONAL ENGINEER

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STAGING PLAN 1

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-10091

SHT NO X / TOTAL # | REV NO:

PROJECT LOCATION:
CONDOS AND 125TH AVENUE SE

REFERENCE 1"
0

COAL CREEK PARKWAY SE

125TH AVENUE SE

DIRECT PIPE SEE SHEET CCT900-C-10012

STAGING AREA 3B

WORK AREA 3A

WETLAND D/E

STAGING AREA 3A

WORK AREA 2

COAL CREEK

WORK AREA 3B

STAGING AREA 3C

POTENTIAL WETLAND
L/ANNA'S POND

DIRECT PIPE SEE SHEET CCT900-C-10013

STAGING AREA 4A

WORK AREA 4A

COAL CREEK PARKWAY SE

OHWM

100 - YR

3A - 100

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND

- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- SINGLE-FAMILY TRANSITION AREA

0 50 100
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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WILLIAM JACOBSEN — STATE OF WASHINGTON — 46074 — REGISTERED PROFESSIONAL ENGINEER

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STAGING PLAN 2

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-10092

SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-10092.dwg | Layout: CCT900-C-10092
PLOTTED: Dec 07, 2020-04:32:29pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

# PROJECT LOCATION:
# MICROTUNNEL LOCATION AND SPU CORRIDOR STAGING LOCATIONS

REFERENCE 1" 0 5

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

DIRECT PIPE SEE SHEET CCT900-C-10016

WORK AREA 5

STAGING AREA 4B

WETLAND M

COAL CREEK PARKWAY SE

MICRO-TUNNEL SEE SHEETS CCT900-C-10040 AND CCT900-C-10042

STAGING AREA 5

WORK AREA 6

STAGING AREA 6

STREAM 1

ESTIMATED CENTERLINE OF COAL CREEK

WETLAND O

WETLAND N

COAL CREEK

0 50 100
SCALE IN FEET

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwiseworking\dn\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-10093.dwg | Layout: CCT900-C-10093
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; zexistingdata-STRM.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

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WILLIAM HAGO — STATE OF WASHINGTON — 46074 — REGISTERED PROFESSIONAL ENGINEER

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STAGING PLAN 3

DATE: DECEMBER 2020

DRAWING NO: **CCT900-C-10093**

SHT NO X / TOTAL # REV NO:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR AND SPUR

## GENERAL NOTES

1. STAGING IN THIS AREA CAN ONLY BE USED DURING DIRECT PIPE INSTALLATION, WORK ON THE SPUR SEWER, AND COAL CREEK ENHANCEMENTS.

## LAND USE OVERLAY LEGEND

- HUMAN-MADE FILL-NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

WETLAND FF
WETLAND EE
WETLAND DD
WETLAND CC
WETLAND AA
WETLAND BB
WETLAND A/1
WETLAND B
WETLAND 2
WETLAND J
WETLAND H
WETLAND I
TRIBUTARY 2
TRIBUTARY 0272
TRIBUTARY 1
DIRECT PIPE SEE SHEETS CCT900-C-10019
STAGING AREA 7
WORK AREA 7
COAL CREEK PARKWAY SE
COAL CREEK
MH25B TEMPORARY BENDWAY WEIRS AND BANK STABILIZATION INSTALLED IN AUGUST 2020 TO BE FULLY REMOVED DURING STREAM RESTORATION.

0 50 100
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON · 46074 · REGISTERED PROFESSIONAL ENGINEER · JAMES WILLIAM JACOBSEN

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|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STAGING PLAN 4

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10094
SHT NO / TOTAL: X / #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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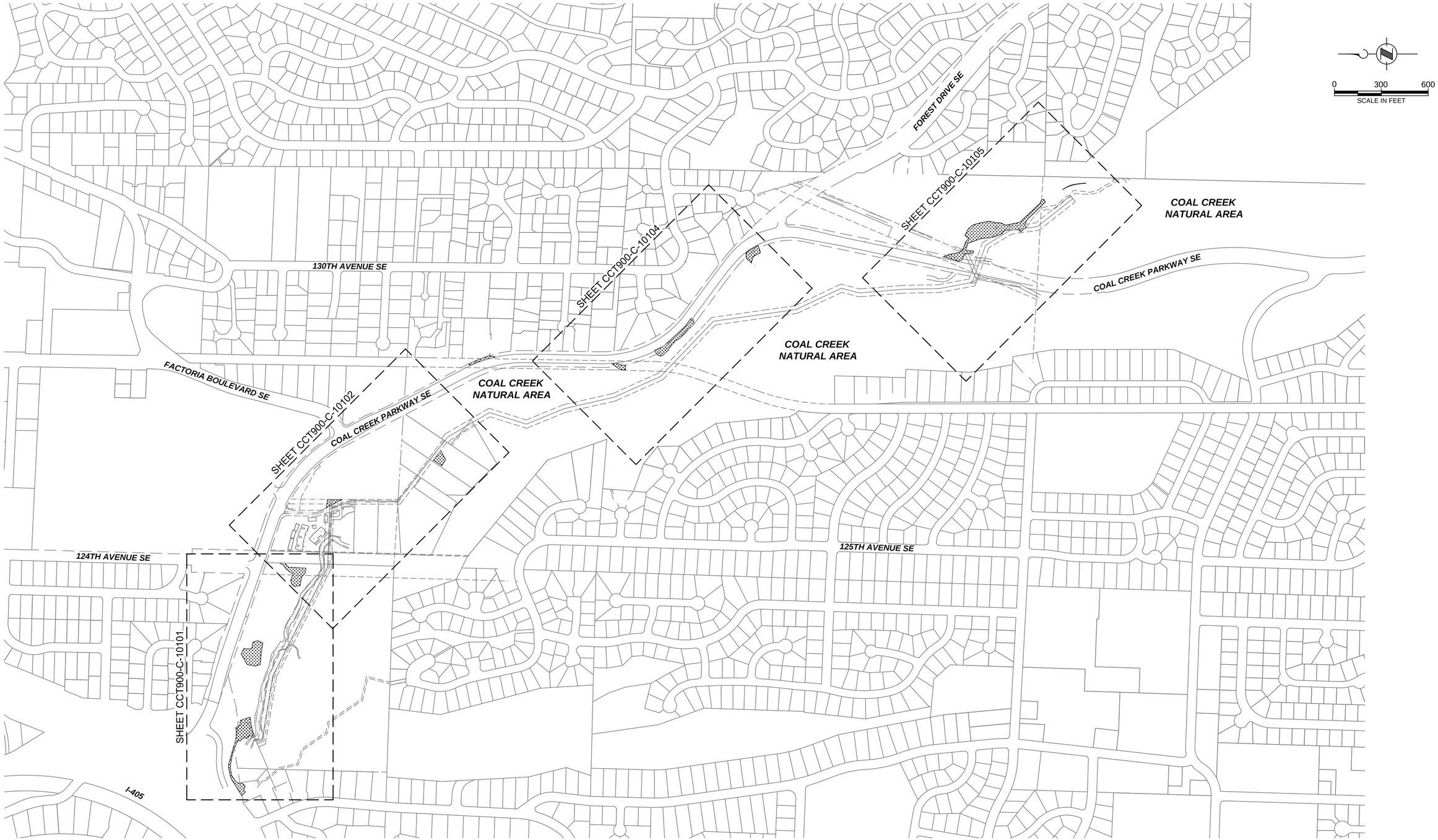
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; zexistingdata-STRM.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DECOMMISSIONING KEY MAP

DATE: DECEMBER 2020

DRAWING NO: **CCT900-C-10100**

SHT NO X / TOTAL # | REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
ESI CONNECTION

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL-NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

## KEY NOTES

1. PLUG PIPES WITH CONCRETE AND FILL MH CHANNEL, SEE DETAIL D/CCT900-C-40050.
2. LIMITED WALKING ACCESS ONLY.
3. COORDINATE WITH THE CITY OF BELLEVUE TO PROVIDE ACCESSIBLITY IN THIS AREA, RELATIVE TO THE CITY'S MAINTENACE OF FLOW CONTROL STRUCTURE AND SEDIMENT POND. CITY WILL REQUIRE IMMEDIATE ACCESS FOLLOWING STORM EVENTS.

COAL CREEK PARKWAY SE

3 STAGING AREA 1

WETLAND A

WETLAND A

1 RE*ES15-7.R02-28

1 2 RE*COAL.R13-01

WORK AREA 1

1 2 RE*COAL.R13-02

WETLAND B1

WETLAND C

WETLAND A

STAGING AREA 2

WETLAND D/E

WORK AREA 2

COAL CREEK

MATCH LINE SEE SHEET CCT900-C-10102

STAGING AREA 3A

1 2 RE*COAL.R13-03

0 50 100
SCALE IN FEET

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

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DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DECOMMISSIONING PLAN 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10101
SHT NO / TOTAL: X / #
REV NO:

PROJECT LOCATION:
ESI CONNECTION, CONDOS, AND
125TH AVENUE SE

COAL CREEK PARKWAY SE

MATCH LINE SEE SHEET CCT900-C-10101

STAGING AREA 3B
WORK AREA 3A
WORK AREA 3B
WORK AREA 2
STAGING AREA 3A
STAGING AREA 3C
POTENTIAL WETLAND
L/ANNA'S POND
WETLAND D/E
COAL CREEK
0268

RE*COAL.R13-04 1 5
RE*COAL.R13-05 6
RE*COAL.R13-06
RE*COAL.R13-07
RE*COAL.R13-08
RE*COAL.R13-09 2

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE FAMILY TRANSITION AREA
- DESIGNATED CRITICAL HABITAT AREA

## KEY NOTES

1. PLUG PIPES WITH CONCRETE 1 PIPE DIAMETER DEEP.
2. PLUG UPSTREAM PIPES WITH CONCRETE.
3. REMOVE CONE, PLUG PIPES WITH CONCRETE 1 PIPE DIAMETER DEEP AND FILL REMAINING STRUCTURE WITH GRAVEL. RESTORE SURFACE TO MATCH EXISTING.
4. REMOVE 21" RCP IN CREEK FROM BANK EDGE (APPROXIMATELY 30' WEST OF UPSTREAM MAINTENANCE HOLE) ON EAST SIDE OF CREEK TO 10' BEYOND BANK EDGE ON WEST SIDE OF CREEK. PLUG REMAINING PIPE ENDS WITH CONCRETE 1 PIPE DIAMETER DEEP.
5. LIMITED WALKING ACCESS ONLY.
6. SEE SHEET CCT900-C-10030 PLUG ANY REMAINING PIPES WITH CONCRETE 1 PIPE DIAMETER DEEP AND FILL ANY REMAINING STRUCTURE WITH GRAVEL.

0 50 100
SCALE IN FEET

REFERENCE 1"

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-10102.dwg | Layout: CCT900-C-10102
PLOTTED: Dec 07, 2020-05:12:49pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

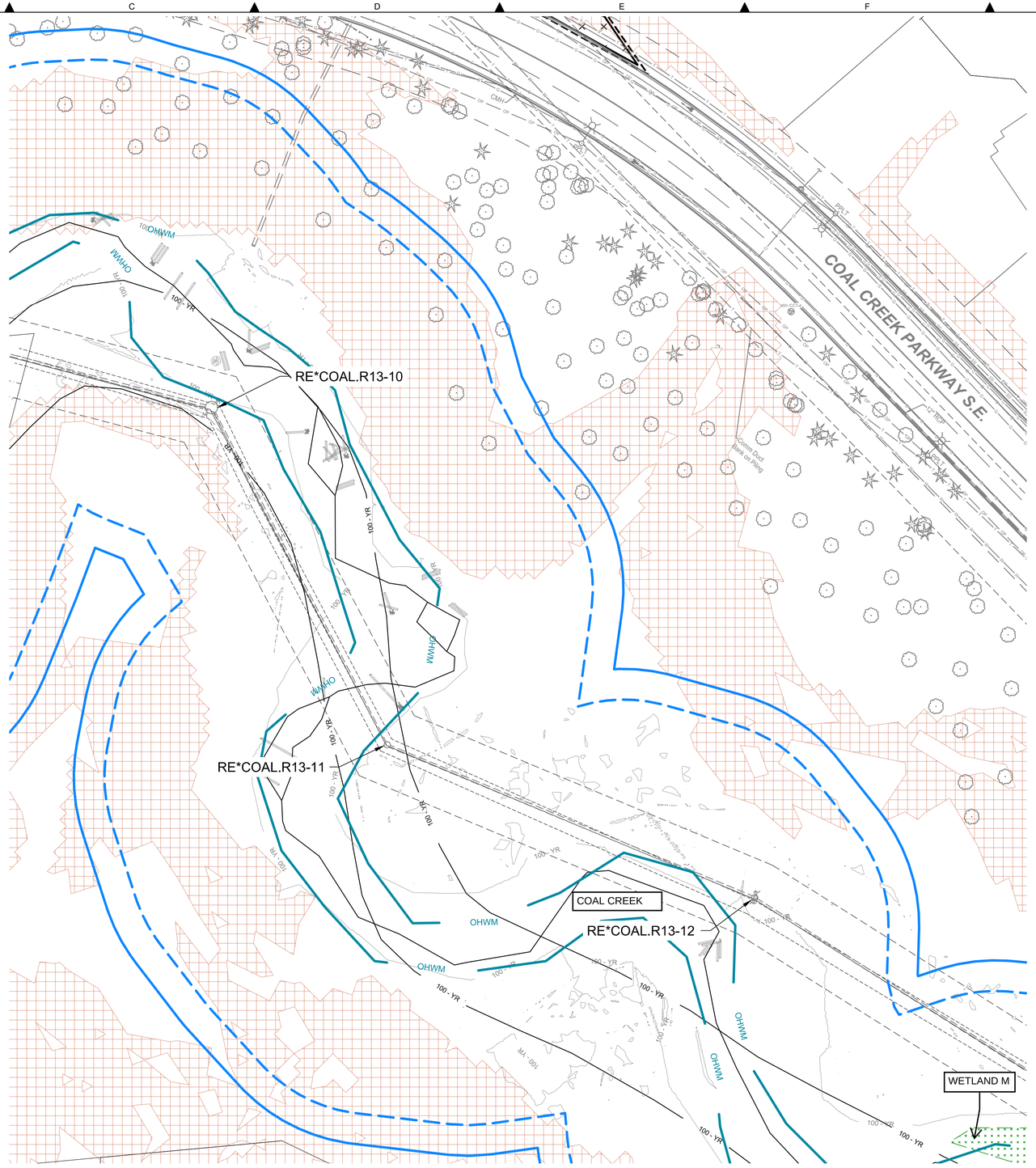
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DECOMMISSIONING PLAN 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10102
SHT NO X / TOTAL #
REV NO:

PROJECT LOCATION:
NO ACTIVITIES IN THIS LOCATION




## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

REFERENCE 1" = 0 5

0 50 100
SCALE IN FEET

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

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DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DECOMMISSIONING PLAN 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10103
SHT NO X / TOTAL # REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-10103.dwg | Layout: CCT900-C-10103
PLOTTED: Dec 07, 2020-08:25:41pm By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION AND
SPU CORRIDOR STAGING LOCATIONS

REFERENCE 1" 0 5

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

## KEY NOTES

1. PLUG PIPES WITH CONCRETE 1 PIPE DIAMETER DEEP.
2. REMOVE CONE, PLUG PIPES WITH CONCRETE 1 PIPE DIAMETER DEEP AND FILL REMAINING STRUCTURE WITH GRAVEL. RESTORE SURFACE TO MATCH EXISTING. SEE DETAIL X/C-XXX

STREAM 1
WETLAND M
WORK AREA 5
STAGING AREA 5
STAGING AREA 4
WORK AREA 6
STAGING AREA 6
WETLAND O
WETLAND N
COAL CREEK
COAL CREEK PARKWAY SE
RE*COAL.R13-13
RE*COAL.R13-14
RE*COAL.R13-15
RE*COAL.R13-16

0 50 100
SCALE IN FEET

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DECOMMISSIONING PLAN 4

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10104
SHT NO X / TOTAL # REV NO:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR
AND SPUR

## LAND USE OVERLAY LEGEND

- HUMAN-MADE FILL-NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

## KEY NOTES

1. PLUG PIPES WITH CONCRETE 1 PIPE DIAMETER DEEP.
2. REMOVE CONE, PLUG PIPES WITH CONCRETE 1 PIPE DIAMETER DEEP AND FILL REMAINING STRUCTURE WITH GRAVEL. RESTORE SURFACE TO MATCH EXISTING. SEE DETAIL X/C-XXX.
3. REMOVE CONE AND FIRST RING, PLUG PIPES WITH CONCRETE 1 PIPE DIAMETER DEEP AND FILL REMAINING STRUCTURE WITH GRAVEL. RESTORE SURFACE TO MATCH EXISTING. SEE DETAIL X/C-XXX.
4. LIMITED WALKING ACCESS ONLY.
5. EQUIPMENT ACCESS ONLY FROM EXISTING CLEARED PATH OR FROM INSIDE WORK LIMITS. MACHINERY MAY REACH ACROSS LIMITS BUT MAY NOT BE DRIVEN OUTSIDE LIMITS.
6. PLUG WITH CONCRETE EXISTING OUTGOING 12" PIPE PENETRATION TO THE WEST 1 PIPE DIAMETER DEEP.
7. FILL DECOMMISSIONED COAL CREEK SOUTH TRUNK SEWER BETWEEN MH RE*COAL-29A AND RE*COAL-28 WITH FLOWABLE FILL.

WETLAND FF
WETLAND EE
WETLAND DD
WETLAND CC
WETLAND AA
WETLAND BB
WETLAND A/1
WETLAND B
WETLAND 2
WETLAND G
WETLAND H
WETLAND I
WETLAND J
TRIBUTARY 2
TRIBUTARY 0272
TRIBUTARY1
COAL CREEK PARKWAY SE
COAL CREEK
STAGING AREA 7
WORK AREA 7
WORK AREA 8
RE*COAL.R13-20
RE*COAL.R13-21
RE*COAL.R13-22A
RE*COAL.R13-23
RE*COAL.R13-24
RE*COAL.R13-25
RE*COAL.R13-25A
RE*COAL.R13-25B
RE*COAL.R13-25C
RE*COAL.C4-22
RE*COAL.C4-26
RE*COAL.C4-27
RE*COAL.C4-28
RE*COAL.C4-29A
194963
192857
OHWM
100-YR
40'

MH25B TEMPORARY BENDWAY WEIRS AND BANK STABILIZATION INSTALLED IN AUGUST 2020 TO BE FULLY REMOVED DURING STREAM RESTORATION.

0 50 100
SCALE IN FEET

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DECOMMISSIONING PLAN 5

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10105
SHT NO / TOTAL: X / #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.philippon@jacobs.com\d0406435\CCT900-C-10105.dwg | Layout: CCT900-C-10105
PLOTTED: Dec 07, 2020-08:30:21pm. By JV036010
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; zexistingdata-STRM.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR AND SPUR

TRIBUTARY 0272

TRIBUTARY 2

WETLAND A/1

WETLAND B

COAL CREEK

TRIBUTARY 0272

## KEY NOTES

1. CONTRACTOR DESIGNED DIRECT PIPE LAUNCH PIT.
2. BIORETENTION FACILITY TO BE REPLACED. SEE PARKING LOT REPLACEMENT SHEETS.
3. PLATE OVER POND FOR CONSTRUCTION ACCESS. ALL EXISTING FLOW PATHS TO REMAIN. MAINTAIN MINIMUM 6" CLEARANCE ABOVE WATER SURFACE.
4. CONTRACTOR DESIGNED NOISE BARRIER, MINIMUM 12-FOOT HIGH, MASS LOADED VINYL QUILTED FIBERGLASS ABSORBER ON A MOVABLE FRAME.

## LAND USE OVERLAY LEGEND

- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET

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| DESIGNED/DRAWN: | CHECKED: |
|---|---|
| K. TOLLE | R. BARD |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | AS SHOWN |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SITE PLAN AT DIRECT PIPE LAUNCH PIT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10120
SHT NO / TOTAL: X / #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: 900-1123624Alignments.dwg, KCWTD-Dsize-TB-Border.dwg, J16144-C3D 2017.dwg, 900-1123624Permitting.dwg, Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION

## KEY NOTES

1. 30' DIA MICROTUNNEL LAUNCH SHAFT.
2. 2:1 MAX SLOPE.
3. 12' WIDE GRAVEL ACCESS ROAD AND GRAVEL PAD TO MH. 6" CSBC AND 3" CSTC PER WSDOR 9-03.9(3) OVERLAID ON GEOTEXTILE PER WSDOT 9-33.2(1) TABLE 3.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

COAL CREEK PARKWAY S.E.

STREAM 1

OUTFALL UNABLE TO LOCATE

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SITE PLAN AT MICROTUNNEL LAUNCH SHAFT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10121
SHT NO / TOTAL: X / #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION

## KEY NOTES

1. 15' DIA MICROTUNNEL RECEIVING SHAFT.
2. 3:1 MAX SLOPE.
3. 12' WIDE GRAVEL ACCESS ROAD AND GRAVEL PAD TO MH 6" CSBC AND 3" CSTC PER WSDOT 9-03.9(3) OVERLAID ON GEOTEXTILE PER WSDOT 9-33.2(1) TABLE 3.

## LAND USE OVERLAY LEGEND

STEEP SLOPE GEOLOGIC HAZARD

TOP-OF-SLOPE

COAL CREEK PARKWAY S.E.

PPLT

LP

MH #CCT-6

MH #CCT-26

0 10 20
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

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This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

CURTIS WILLIAM JACOBSEN — STATE OF WASHINGTON — 46074 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| DESIGNED/DRAWN: | CHECKED: |
|---|---|
| K. TOLLE | R. BARD |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | AS SHOWN |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SITE PLAN AT MICROTUNNEL RECEIVING SHAFT

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-10122

SHT NO / TOTAL: X / #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Sep 10, 2020-12:44:30am By sherryae
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SPUR

COAL CREEK

WETLAND H

WETLAND I

WETLAND J

TRIBUTARY 1

MW/CCT-30

MW/CCT-31

## KEY NOTES

1. RETAINING WALL PER CCT900-S-20070.
2. NEW BRIDGE PER CCT900-C-40070.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

0 10 20
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON · 46074 · REGISTERED PROFESSIONAL ENGINEER · CHRISTOPHER WILLIAM JACOBSEN

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SITE PLAN AND GRADING AT SPUR RETAINING WALL

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-10123

SHT NO / TOTAL: X / #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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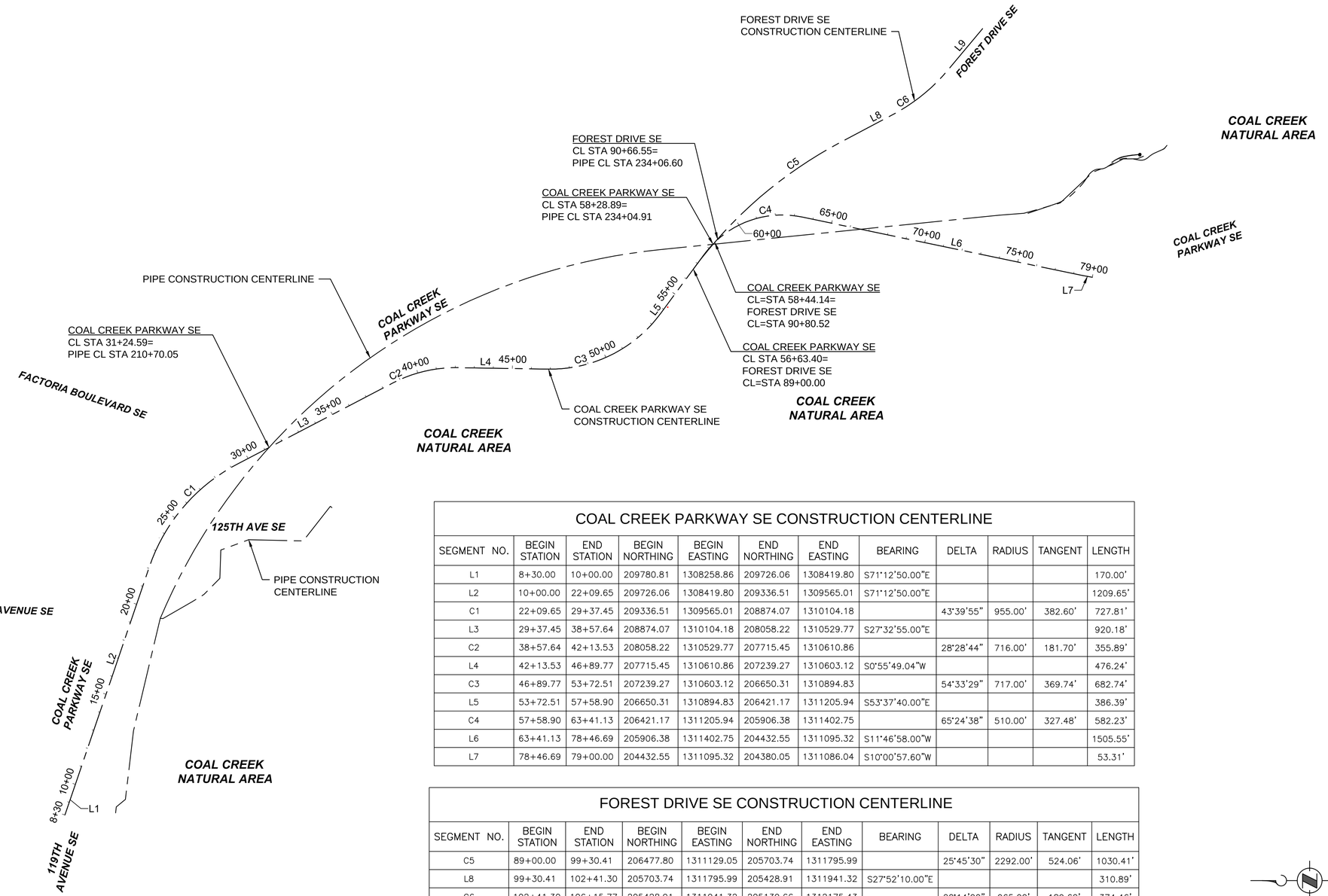
PLOTTED: Sep 10, 2020-12:49:50am By sherryae
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; PropRoadat5pur.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

## GENERAL NOTES

1. SEE SHEET C-00003 FOR SURVEY NOTES.




### COAL CREEK PARKWAY SE CONSTRUCTION CENTERLINE

| SEGMENT NO. | BEGIN STATION | END STATION | BEGIN NORTHING | BEGIN EASTING | END NORTHING | END EASTING | BEARING | DELTA | RADIUS | TANGENT | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L1 | 8+30.00 | 10+00.00 | 209780.81 | 1308258.86 | 209726.06 | 1308419.80 | S71°12'50.00"E | | | | 170.00' |
| L2 | 10+00.00 | 22+09.65 | 209726.06 | 1308419.80 | 209336.51 | 1309565.01 | S71°12'50.00"E | | | | 1209.65' |
| C1 | 22+09.65 | 29+37.45 | 209336.51 | 1309565.01 | 208874.07 | 1310104.18 | | 43°39'55" | 955.00' | 382.60' | 727.81' |
| L3 | 29+37.45 | 38+57.64 | 208874.07 | 1310104.18 | 208058.22 | 1310529.77 | S27°32'55.00"E | | | | 920.18' |
| C2 | 38+57.64 | 42+13.53 | 208058.22 | 1310529.77 | 207715.45 | 1310610.86 | | 28°28'44" | 716.00' | 181.70' | 355.89' |
| L4 | 42+13.53 | 46+89.77 | 207715.45 | 1310610.86 | 207239.27 | 1310603.12 | S0°55'49.04"W | | | | 476.24' |
| C3 | 46+89.77 | 53+72.51 | 207239.27 | 1310603.12 | 206650.31 | 1310894.83 | | 54°33'29" | 717.00' | 369.74' | 682.74' |
| L5 | 53+72.51 | 57+58.90 | 206650.31 | 1310894.83 | 206421.17 | 1311205.94 | S53°37'40.00"E | | | | 386.39' |
| C4 | 57+58.90 | 63+41.13 | 206421.17 | 1311205.94 | 205906.38 | 1311402.75 | | 65°24'38" | 510.00' | 327.48' | 582.23' |
| L6 | 63+41.13 | 78+46.69 | 205906.38 | 1311402.75 | 204432.55 | 1311095.32 | S11°46'58.00"W | | | | 1505.55' |
| L7 | 78+46.69 | 79+00.00 | 204432.55 | 1311095.32 | 204380.05 | 1311086.04 | S10°00'57.60"W | | | | 53.31' |

### FOREST DRIVE SE CONSTRUCTION CENTERLINE

| SEGMENT NO. | BEGIN STATION | END STATION | BEGIN NORTHING | BEGIN EASTING | END NORTHING | END EASTING | BEARING | DELTA | RADIUS | TANGENT | LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C5 | 89+00.00 | 99+30.41 | 206477.80 | 1311129.05 | 205703.74 | 1311795.99 | | 25°45'30" | 2292.00' | 524.06' | 1030.41' |
| L8 | 99+30.41 | 102+41.30 | 205703.74 | 1311795.99 | 205428.91 | 1311941.32 | S27°52'10.00"E | | | | 310.89' |
| C6 | 102+41.30 | 106+15.77 | 205428.91 | 1311941.32 | 205139.66 | 1312175.43 | | 22°14'00" | 965.00' | 189.62' | 374.46' |
| L9 | 106+15.77 | 109+00.00 | 205139.66 | 1312175.43 | 204957.35 | 1312393.49 | S50°06'10.00"E | | | | 284.23' |

0 300 600
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
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DECEMBER 2020

JESSA MARIE DOW
STATE OF WASHINGTON
48151
REGISTERED
PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# COAL CREEK PARKWAY SE AND FOREST DRIVE SE ALIGNMENT PLAN

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10130
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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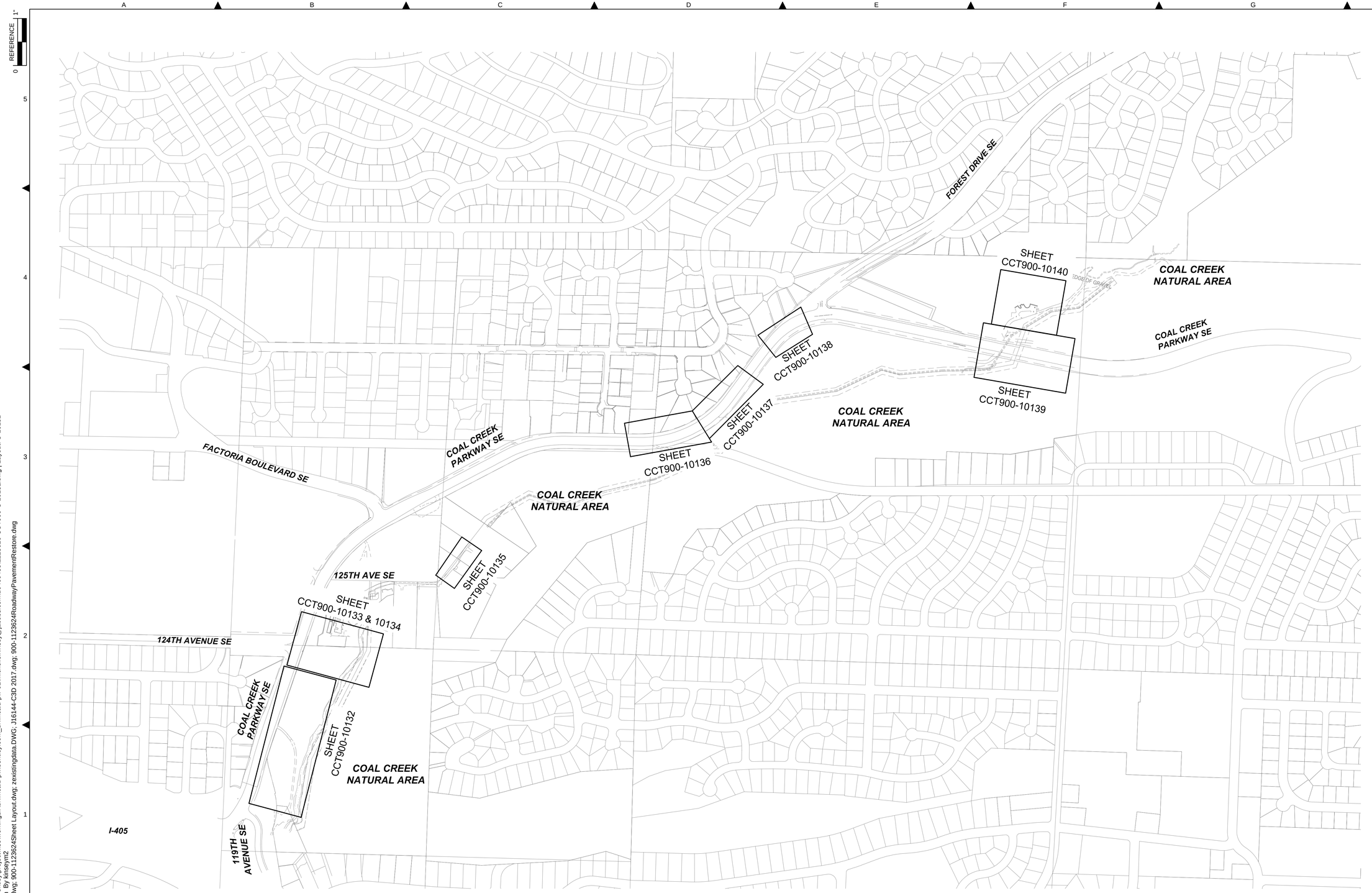


| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
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DECEMBER 2020

VANESSA MARIE DONATO — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=300' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURFACE RESTORATION PARTIAL PLAN KEYMAP

DATE: DECEMBER 2020

DRAWING NO: **CCT900-C-10131**

SHT NO # / TOTAL # | REV NO: **0**

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624Sheet Layout.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624RoadwayPavementRestore.dwg
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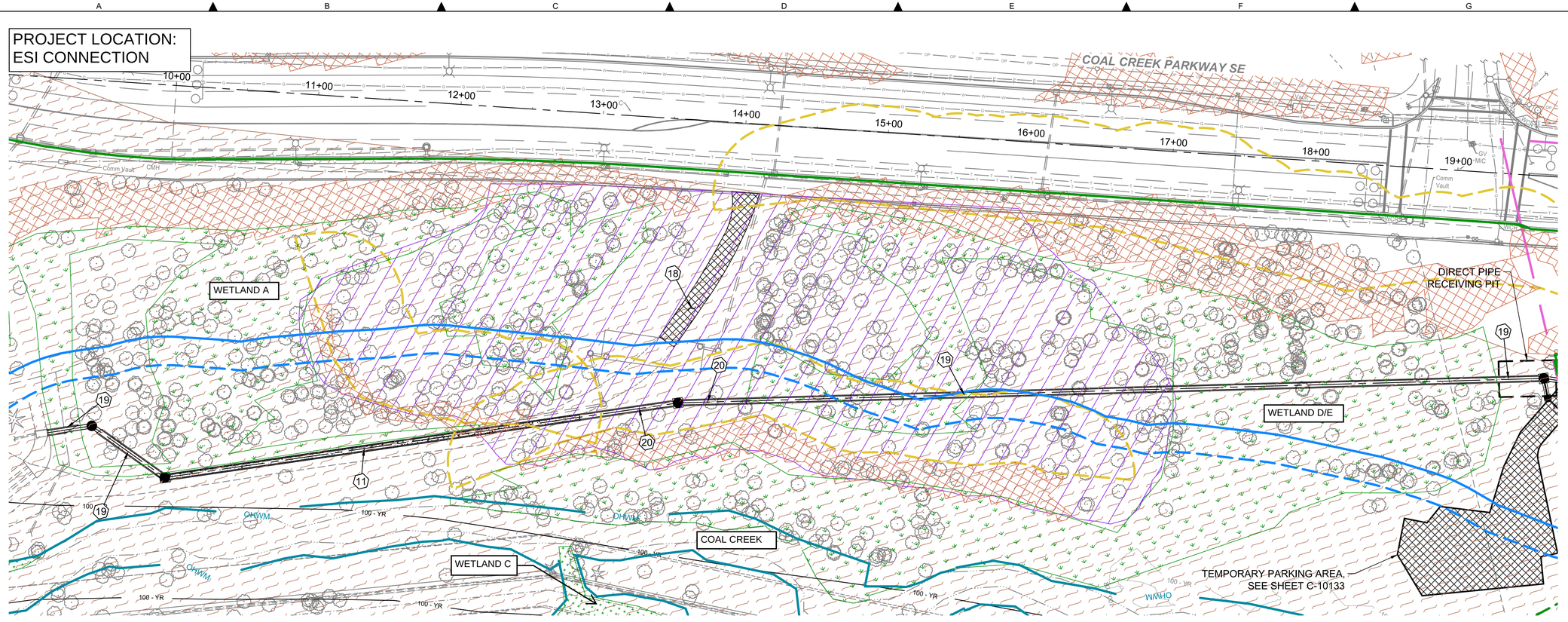


## GENERAL NOTES

1. SEE COB STD DWG NO. RC-190-1 FOR TYPICAL TRENCH IN RIGHT OF WAY DETAIL.
2. SEE COB STD DWG NO. RC-200-1 FOR ASPHALT OVERLAY FOR ROADWAY TRENCH RESTORATION REQUIREMENTS.
3. SEE TESC PLANS, SHEETS C-10001 TO C-10007, FOR CLEARING AND GRUBBING LIMITS.
4. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED AT EXISTING CATCH BASIN LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. EXISTING STORM SYSTEM TO REMAIN UNLESS OTHERWISE NOTED. SEE PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081.
6. CURB AND GUTTER AND SIDEWALK RECONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND REPLACE CURB AND GUTTER AND SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.
7. REMOVAL OF PLASTIC AND PAINTED PAVEMENT MARKINGS SHALL BE REMOVED WITH THE GRIND AND OVERLAY OF EXISTING PAVEMENT. FOR RESTORATION OF EXISTING CHANNELIZATION, SEE STRIPING AND SIGNING PLANS, SHEETS C-10155 TO C-10154.
8. FOR TREATMENT OF EXISTING SIGNS, SEE SIGNING AND STRIPING PLANS, SHEETS C-10150 TO C-10155.

## KEY NOTES

11. RESTORE GRAVEL AREA FOR TRENCH RESTORATION PER COB STD DWG NO. RC-190-1 AND DETAIL, SHEET C-40130.
18. REMOVE STABILIZED CONSTRUCTION ENTRANCE AND INSTALL 10" HMA CL. 1/2" PG 58H-22 PER DETAIL, SHEET C-40130.
19. SEE LANDSCAPE PLANS, SHEETS C-11000 TO C-11008, FOR TRENCH RESTORATION.
20. RESTORE EXISTING SURFACE AND LANDSCAPE CONDITIONS FOR TRENCH RESTORATION.

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- SINGLE-FAMILY TRANSITION AREA

## LEGEND

- 10" HMA CL. 1/2" PG 58H-22
- 6" CRUSHED GRAVEL FOR TRENCH RESTORATION
- 6" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION

0 40 80
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

PERTEET
505 FIFTH AVENUE S, SUITE 300
SEATTLE, WA 98104
206.436.0515 | 800.615.9900

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DECEMBER 2020

ESSA MARIE DON — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURFACE RESTORATION PARTIAL PLAN ESI OPEN CUT AND DIRECT PIPE RECEIVING PIT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10132
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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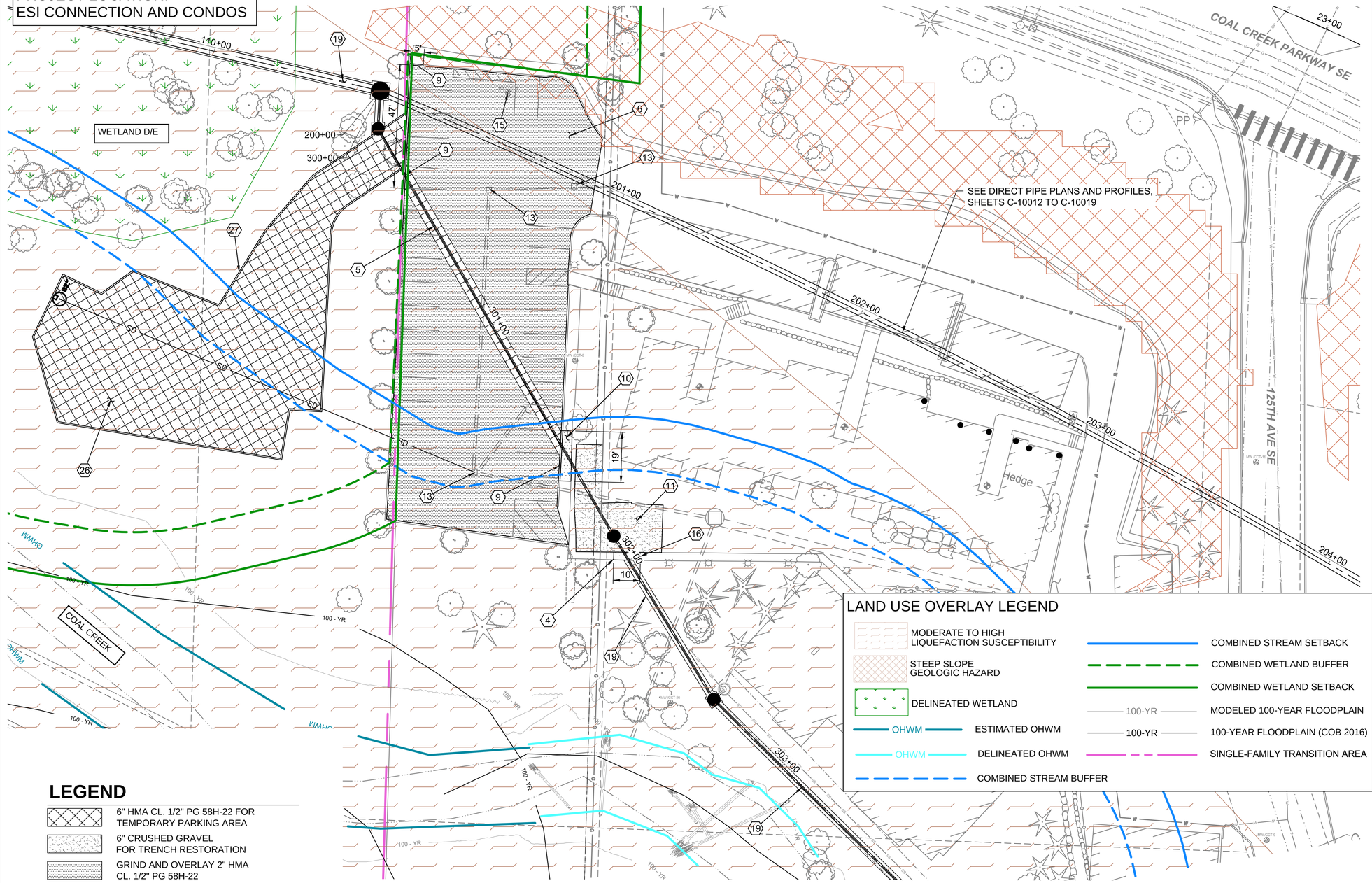
IMAGES:

PROJECT LOCATION:
ESI CONNECTION AND CONDOS




## GENERAL NOTES

1. SEE COB STD DWG NO. RC-190-1 FOR TYPICAL TRENCH IN RIGHT OF WAY DETAIL.
2. SEE COB STD DWG NO. RC-200-1 FOR ASPHALT OVERLAY FOR ROADWAY TRENCH RESTORATION REQUIREMENTS.
3. SEE TESC PLANS, SHEETS C-10001 TO C-10007, FOR CLEARING AND GRUBBING LIMITS.
4. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED AT EXISTING CATCH BASIN LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. EXISTING STORM SYSTEM TO REMAIN UNLESS OTHERWISE NOTED. SEE PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081.
6. CURB AND GUTTER AND SIDEWALK RECONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND REPLACE CURB AND GUTTER AND SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.
7. REMOVAL OF PLASTIC AND PAINTED PAVEMENT MARKINGS SHALL BE REMOVED WITH THE GRIND AND OVERLAY OF EXISTING PAVEMENT. FOR RESTORATION OF EXISTING CHANNELIZATION, SEE STRIPING AND SIGNING PLANS, SHEETS C-10150 TO C-10155.
8. FOR TREATMENT OF EXISTING SIGNS, SEE SIGNING AND STRIPING PLANS, SHEETS C-10150 TO C-10155.

## KEY NOTES

5. REMOVE EXISTNG PAVEMENT AND INSTALL 6" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION PER COB STD DWG NO. RC-190-1.
6. GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22 TO EDGE OF EXISTING PAVEMENT OR TO EXISTING CURB PER PER COB STD DWG NO. RC-200-1. EXISTING CURB TO REMAIN.
9. REMOVE AND RECONSTRUCT CEMENT CONC. EXTRUDED CURB PER DETAIL, SHEET C-40130.
10. REMOVE EXISTING PAVEMENT AND INSTALL 4" HMA CL 1/2" PG 58H-22 OVER 4" CSBC.
11. RESTORE GRAVEL AREA FOR TRENCH RESTORATION PER COB STD DWG NO. RC-190-1 AND DETAIL, SHEET C-40130.
13. ADJUST MANHOLE/CATCH BASIN TO GRADE PER COB STD DWG NO. D-23.
15. ADJUST MONITORING WELL TO GRADE PER COB STD DWG NO. RC-250-1.
16. RELOCATE LUMINAIRE AND FOUNDATION AS DIRECTED BY THE ENGINEER FOR TRENCH CONSTRUCTION.
19. SEE LANDSCAPE PLANS, SHEETS C-11000 TO C-11008, FOR TRENCH RESTORATION.
26. INSTALL 6" HMA CL. 1/2" PG 58H-22 FOR TEMPORARY PARKING AREA, PER DETAIL SHEET C-40130.
27. INSTALL CEMENT CONC. EXTRUDED CURB FOR TEMPORARY PARKING AREA PER DETAIL, SHETT C-40130.

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE-FAMILY TRANSITION AREA

## LEGEND

- 6" HMA CL. 1/2" PG 58H-22 FOR TEMPORARY PARKING AREA
- 6" CRUSHED GRAVEL FOR TRENCH RESTORATION
- GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22
- 6" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell : PERTEET
AND ASSOCIATED FIRMS
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206.436.0515 | 800.615.9900

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DECEMBER 2020

TESSA MARIE DONATO — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURFACE RESTORATION PARTIAL PLAN CONDO RECONNECT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10133
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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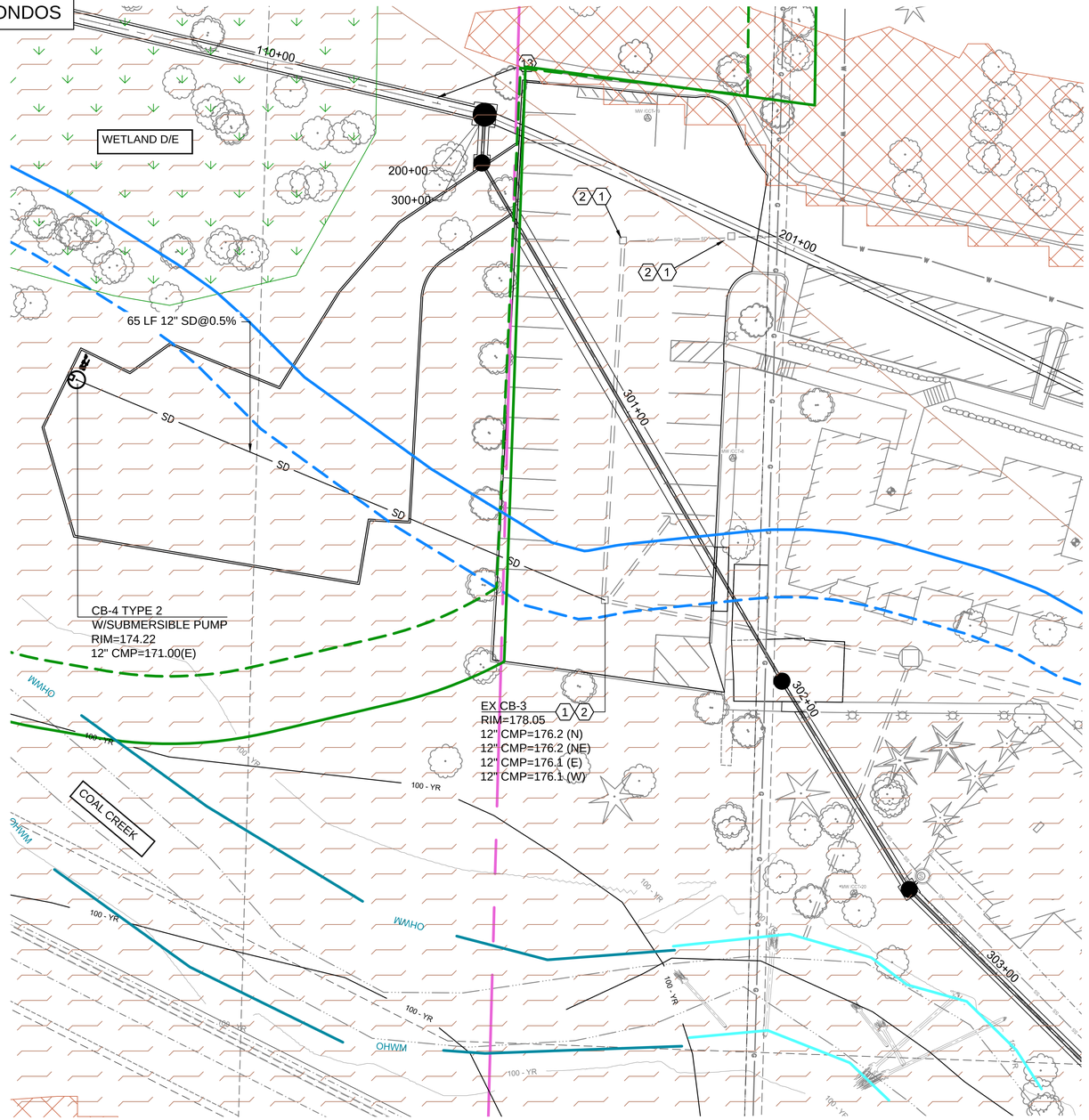
IMAGES:

PROJECT LOCATION:
ESI CONNECTION AND CONDOS




## KEY NOTES

1. ADJUST RIM TO GRADE.
2. CONNECT TO EXISTING STRUCTURE.
3. CONNECT TO EXISITNG PIPE.

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE-FAMILY TRANSITION AREA

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | PERTEET
AND ASSOCIATED FIRMS
505 FIFTH AVENUE S, SUITE 300
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206.436.0515 | 800.615.9900

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

CHOLE R PELLE — STATE OF WASHINGTON — 49514 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: N. PELLETT | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

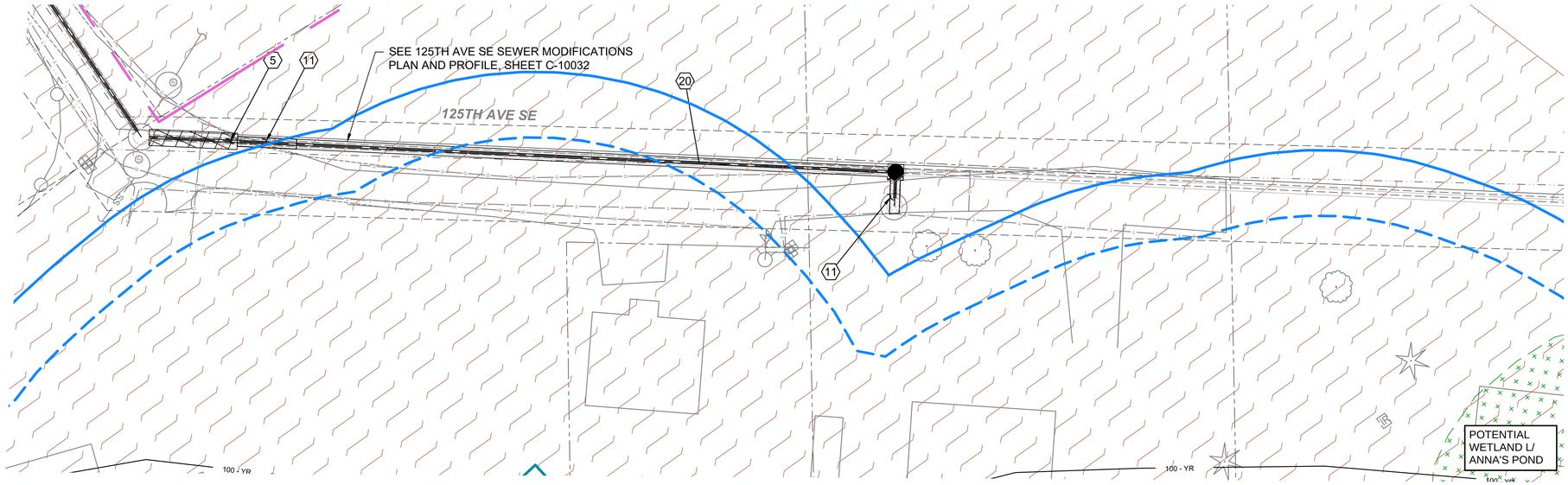
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DRAINAGE PLAN
# TEMPORARY PARKING AREA AT CONDO RECONNECT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10134
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.philippon@jacobs.com\d0406435\1123626-CCT900-C-10134.dwg | Layout: C-10134
PLOTTED: Sep 17, 2020-11:38:42am By JV036010
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624Sheet Layout.dwg; 900-1123624RoadwayPavementRestore.dwg; 900-1123624Alignments.dwg; J16144-C3D 2017.dwg; 900-1123624 Storm Drainage.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
125TH AVENUE SE




## GENERAL NOTES

1. SEE COB STD DWG NO. RC-190-1 FOR TYPICAL TRENCH IN RIGHT OF WAY DETAIL.
2. SEE COB STD DWG NO. RC-200-1 FOR ASPHALT OVERLAY FOR ROADWAY TRENCH RESTORATION REQUIREMENTS.
3. SEE TESC PLANS, SHEETS C-10001 TO C-10007, FOR CLEARING AND GRUBBING LIMITS.
4. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED AT EXISTING CATCH BASIN LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. EXISTING STORM SYSTEM TO REMAIN UNLESS OTHERWISE NOTED. SEE PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081.
6. CURB AND GUTTER AND SIDEWALK RECONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND REPLACE CURB AND GUTTER AND SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.
7. REMOVAL OF PLASTIC AND PAINTED PAVEMENT MARKINGS SHALL BE REMOVED WITH THE GRIND AND OVERLAY OF EXISTING PAVEMENT. FOR RESTORATION OF EXISTING CHANNELIZATION, SEE STRIPING AND SIGNING PLANS, SHEETS C-10150 TO C-10155.
8. FOR TREATMENT OF EXISTING SIGNS, SEE SIGNING AND STRIPING PLANS, SHEETS C-10150 TO C-10155.

## KEY NOTES

5. REMOVE EXISTING PAVEMENT AND INSTALL 6" HMA CL. 1/2" PG 58H FOR TRENCH RESTORATION PER COB STD DWG NO. RC-190-1.
11. RESTORE GRAVEL AREA FOR TRENCH RESTORATION PER COB STD GWG NO. RC-190-1 AND DETAIL, SHEET C-40130.
20. RESTORE EXISTING SURFACE AND LANDSCAPE CONDITIONS FOR THE TRENCH RESTORATION.

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- ESTIMATED WETLAND
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE-FAMILY TRANSITION AREA

## LEGEND

- 6" CRUSHED GRAVEL FOR TRENCH RESTORATION
- 6" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

PERTEET
505 FIFTH AVENUE S, SUITE 300
SEATTLE, WA 98104
206.436.0015 | 800.815.9900

**PERMIT ISSUE**

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DECEMBER 2020

JESSA MARIE DONATO — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: CCTC90-C-10132 |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURFACE RESTORATION PARTIAL PLAN 125TH AVENUE SE

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10135
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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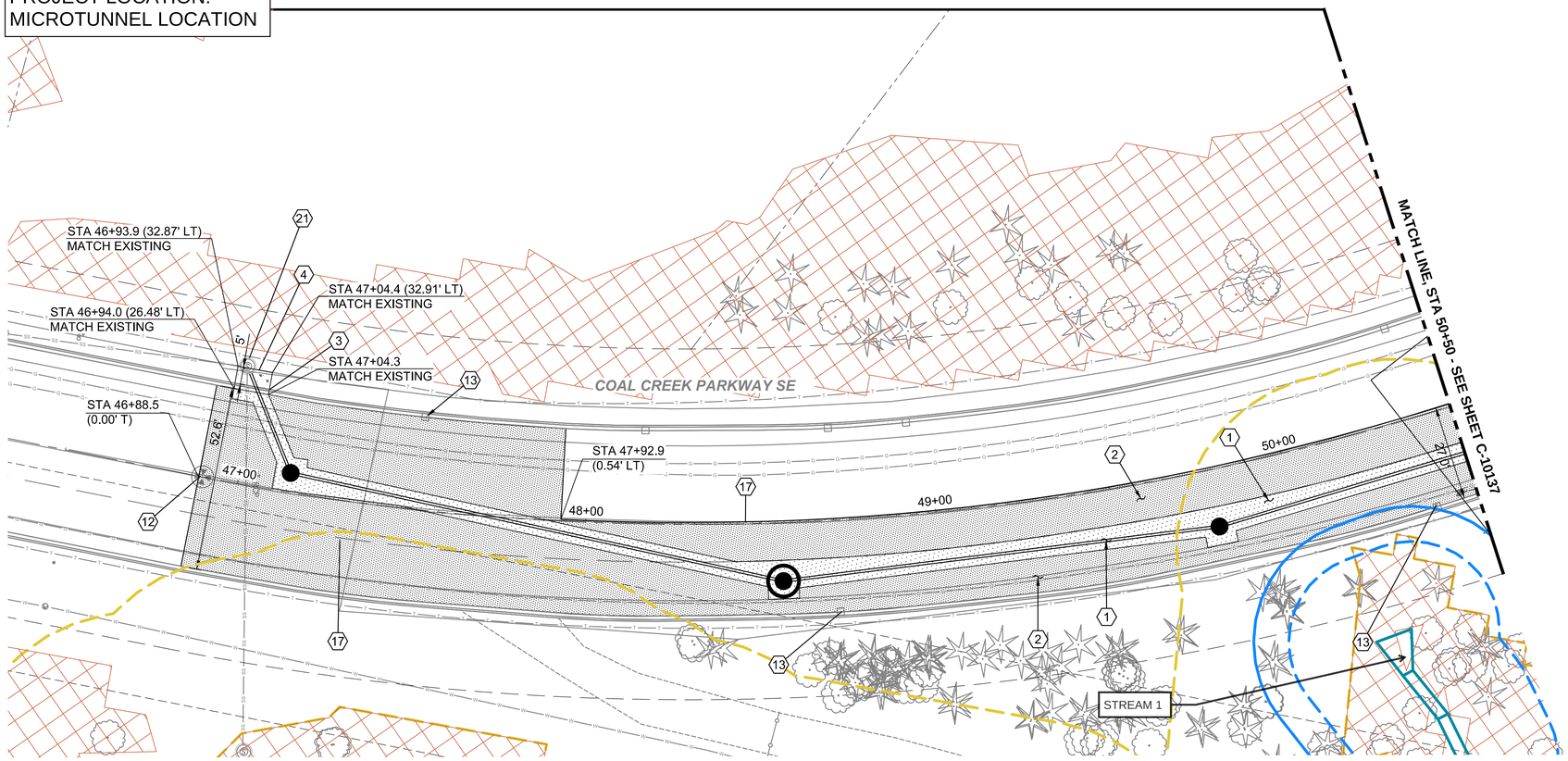
PLOTTED: Sep 21, 2020-09:27:21pm By sherryae
XREFS: KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624Sheet Layout.dwg; 900-1123624RoadwayPavementRestore.dwg; 900-1123624Alignments.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION




## LEGEND

- 10" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION
- GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22

## GENERAL NOTES

1. SEE COB STD DWG NO. RC-190-1 FOR TYPICAL TRENCH IN RIGHT OF WAY DETAIL.
2. SEE COB STD DWG NO. RC-200-1 FOR ASPHALT OVERLAY FOR ROADWAY TRENCH RESTORATION REQUIREMENTS.
3. SEE TESC PLANS, SHEETS C-10001 TO C-10007, FOR CLEARING AND GRUBBING LIMITS.
4. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED AT EXISTING CATCH BASIN LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. EXISTING STORM SYSTEM TO REMAIN UNLESS OTHERWISE NOTED. SEE PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081.
6. CURB AND GUTTER AND SIDEWALK RECONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND REPLACE CURB AND GUTTER AND SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.
7. REMOVAL OF PLASTIC AND PAINTED PAVEMENT MARKINGS SHALL BE REMOVED WITH THE GRIND AND OVERLAY OF EXISTING PAVEMENT. FOR RESTORATION OF EXISTING CHANNELIZATION, SEE STRIPING AND SIGNING PLANS, SHEETS C-10150 TO C-10155.
8. FOR TREATMENT OF EXISTING SIGNS, SEE SIGNING AND STRIPING PLANS, SHEETS C-10150 TO C-10155.

## KEY NOTES

1. REMOVE EXISTING PAVEMENT AND INSTALL 10" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION PER COB STD DWG NO. RC-190-1.
2. GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22 FOR OVERLAY PER COB STD DWG NO. RC-200-1.
3. REMOVE AND RECONSTRUCT CEMENT CONC. CURB AND GUTTER PER COB STD DWG NO. RC-240-1 AND SW-100-1.
4. REMOVE AND RECONSTRUCT CEMENT CONC. SIDEWALK PER COB STD DWG NO. SW-110-1.
12. ADJUST MONUMENT CASE AND COVER TO FINISHED GRADE PER COB STD DWG NO. RC-260-1.
13. ADJUST MANHOLE/CATCH BASIN TO GRADE PER COB STD DWG NO. D-23.
17. REMOVE RAISED PAVEMENT MARKERS WITHIN PAVEMENT RESTORATION LIMITS.
21. SEE PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081, FOR TREATMENT OF EXISTING SEWER PIPE.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

PERTEET
505 FIFTH AVENUE S, SUITE 300
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206.436.0515 | 800.615.9900

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DECEMBER 2020

JESSA MARIE DONATO — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURFACE RESTORATION PARTIAL PLAN BELLEVUE NORTH

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10136
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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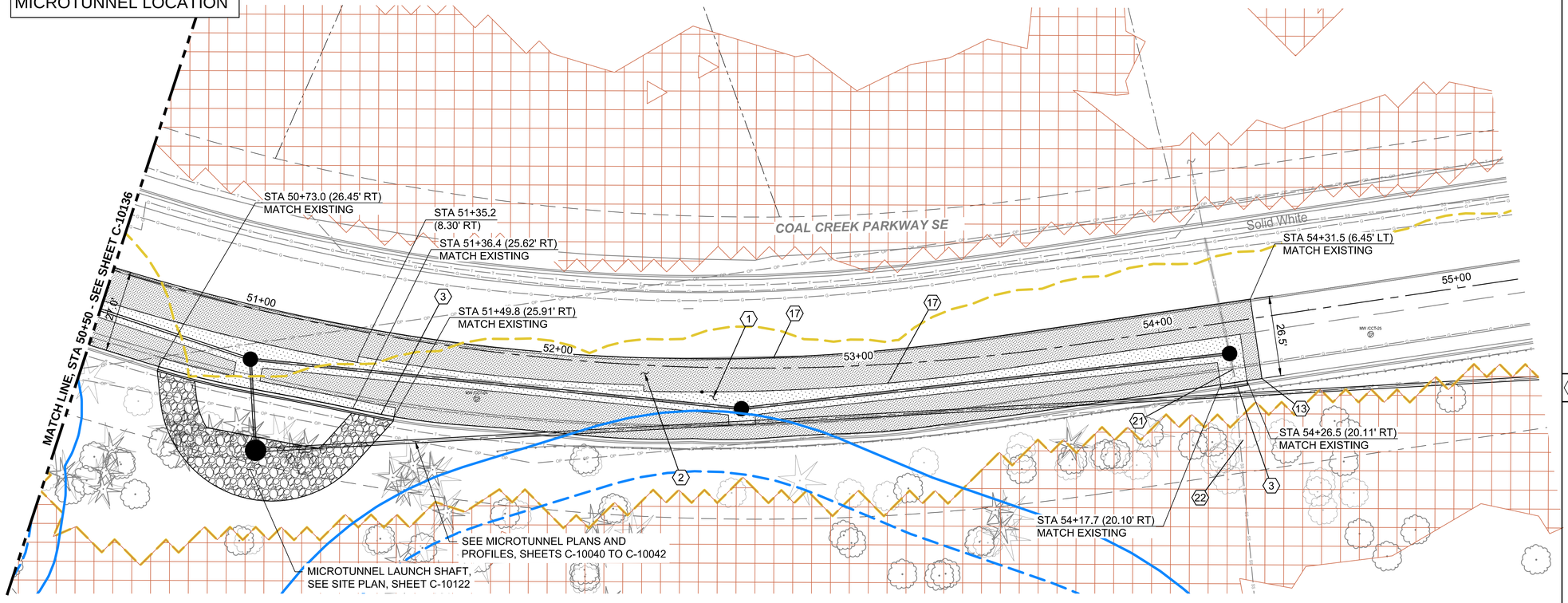
PLOTTED: Sep 17, 2020-11:43:10am By JV036010
XREFS: KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017 08-14-19.DWG; 900-1123624Sheet Layout.dwg; 900-1123624RoadwayPavementRestore.dwg; 900-1123624Alignments.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION




## LEGEND

- 10" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION
- GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22
- MICROTUNNEL RESTORATION AREA, SEE SITE PLAN, SHEET C-10122

## GENERAL NOTES

1. SEE COB STD DWG NO. RC-190-1 FOR TYPICAL TRENCH IN RIGHT OF WAY DETAIL.
2. SEE COB STD DWG NO. RC-200-1 FOR ASPHALT OVERLAY FOR ROADWAY TRENCH RESTORATION REQUIREMENTS.
3. SEE TESC PLANS, SHEETS C-10001 TO C-10007, FOR CLEARING AND GRUBBING LIMITS.
4. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED AT EXISTING CATCH BASIN LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. EXISTING STORM SYSTEM TO REMAIN UNLESS OTHERWISE NOTED. SEE PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081.
6. CURB AND GUTTER AND SIDEWALK RECONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND REPLACE CURB AND GUTTER AND SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.
7. REMOVAL OF PLASTIC AND PAINTED PAVEMENT MARKINGS SHALL BE REMOVED WITH THE GRIND AND OVERLAY OF EXISTING PAVEMENT. FOR RESTORATION OF EXISTING CHANNELIZATION, SEE STRIPING AND SIGNING PLANS, SHEETS C-10150 TO C-10155.
8. FOR TREATMENT OF EXISTING SIGNS, SEE SIGNING AND STRIPING PLANS, SHEETS C-10150 TO C-10155.

## KEY NOTES

1. REMOVE EXISTING PAVEMENT AND INSTALL 10" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION PER COB STD DWG NO. RC-190-1.
2. GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22 FOR OVERLAY PER COB STD DWG NO. RC-200-1.
3. REMOVE AND RECONSTRUCT CEMENT CONC. CURB AND GUTTER PER COB STD DWG NO. RC-240-1 AND SW-100-1.
13. ADJUST MANHOLE/CATCH BASIN TO GRADE PER COB STD DWG NO. D-23.
15. ADJUST MONITORING WELL TO GRADE PER COB STD DWG NO. RC-250-1.
17. REMOVE RAISED PAVEMENT MARKERS WITHIN PAVEMENT RESTORATION LIMITS.
21. SEE PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081, FOR TREATMENT OF EXISTING SEWER PIPE.
22. SEE DECOMISSIONING PLANS, SHEETS C-10100 TO C-10105, FOR TREATMENT OF EXISTING SEWER STRUCTURE.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS


PERTEET
505 FIFTH AVENUE S, SUITE 300
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206.436.0515 | 800.685.9900


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DECEMBER 2020

VANESSA MARIE DONATO — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURFACE RESTORATION PARTIAL PLAN BELLEVUE SOUTH AND MICROTUNNEL LAUNCH SHAFT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10137
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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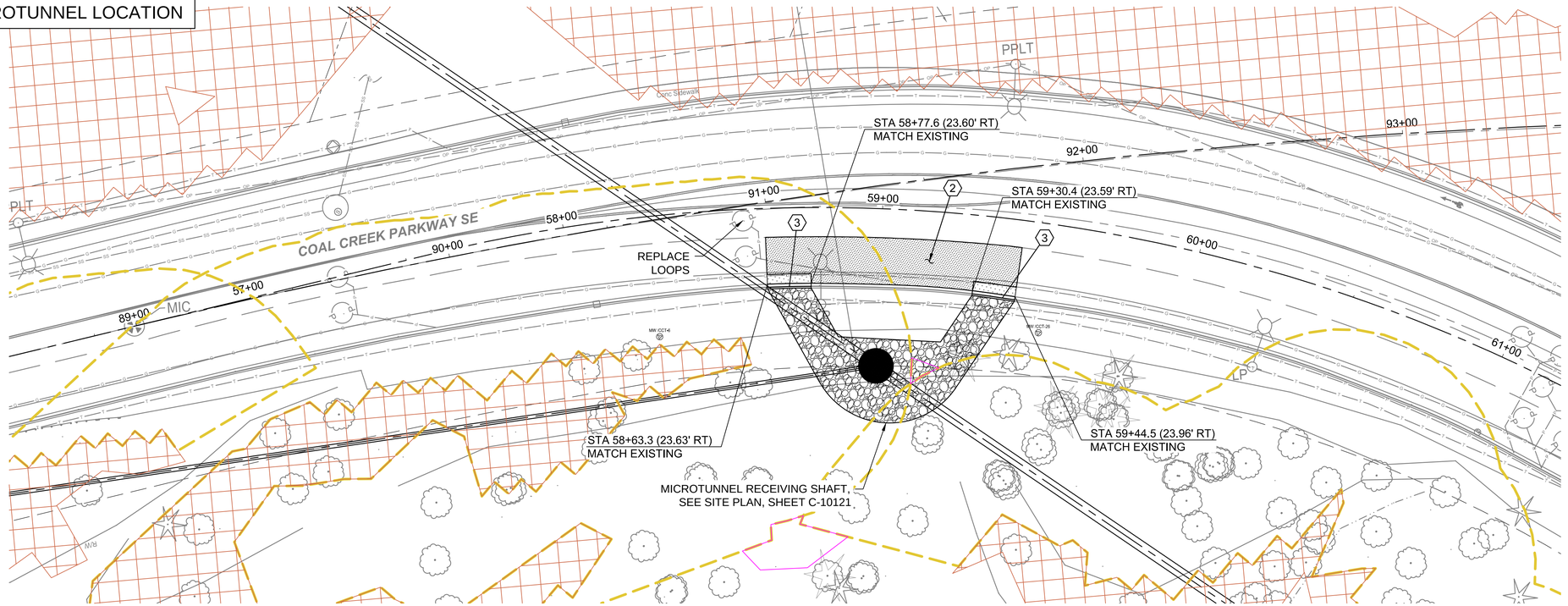
PLOTTED: Sep 17, 2020-12:03:23pm By JV036010
XREFS: KCWTD-Dsize-TB-Border.dwg, 116144-C3D 2017.dwg, 900-1123624Sheet Layout.dwg, 900-1123624RoadwayPavementRestore.dwg, 900-1123624Alignments.dwg, 900-1123624Permitting.dwg, Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION




## GENERAL NOTES

1. SEE COB STD DWG NO. RC-190-1 FOR TYPICAL TRENCH IN RIGHT OF WAY DETAIL.
2. SEE COB STD DWG NO. RC-200-1 FOR ASPHALT OVERLAY FOR ROADWAY TRENCH RESTORATION REQUIREMENTS.
3. SEE TESC PLANS, SHEETS C-10001 TO C-10007, FOR CLEARING AND GRUBBING LIMITS.
4. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED AT EXISTING CATCH BASIN LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. EXISTING STORM SYSTEM TO REMAIN UNLESS OTHERWISE NOTED. SEE OPEN PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081.
6. CURB AND GUTTER AND SIDEWALK RECONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND REPLACE CURB AND GUTTER AND SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.
7. REMOVAL OF PLASTIC AND PAINTED PAVEMENT MARKINGS SHALL BE REMOVED WITH THE GRIND AND OVERLAY OF EXISTING PAVEMENT. FOR RESTORATION OF EXISTING CHANNELIZATION, SEE STRIPING AND SIGNING PLANS, SHEETS C-10150 TO C-10155.
8. FOR TREATMENT OF EXISTING SIGNS, SEE SIGNING AND STRIPING PLANS, SHEETS C-10150 TO C-10155.

## KEY NOTES

2. GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22 FOR OVERLAY PER COB STD DWG NO. RC-200-1.
3. REMOVE AND RECOSTRUCT CEMENT CONC. CURB AND GUTTER PER COB STD DWG NO. RC-240-1 AND SW-100-1.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

## LEGEND

- 10" HMA CL. 1/2" PG 58H-22 FOR PAVEMENT REPLACEMENT
- GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22
- MICROTUNNEL RESTORATION AREA, SEE SITE PLAN, SHEET C-10122

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

PERTEET
505 FIFTH AVENUE S, SUITE 300
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206.436.0515 | 800.615.9900

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DECEMBER 2020

TESSA MARIE DON — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

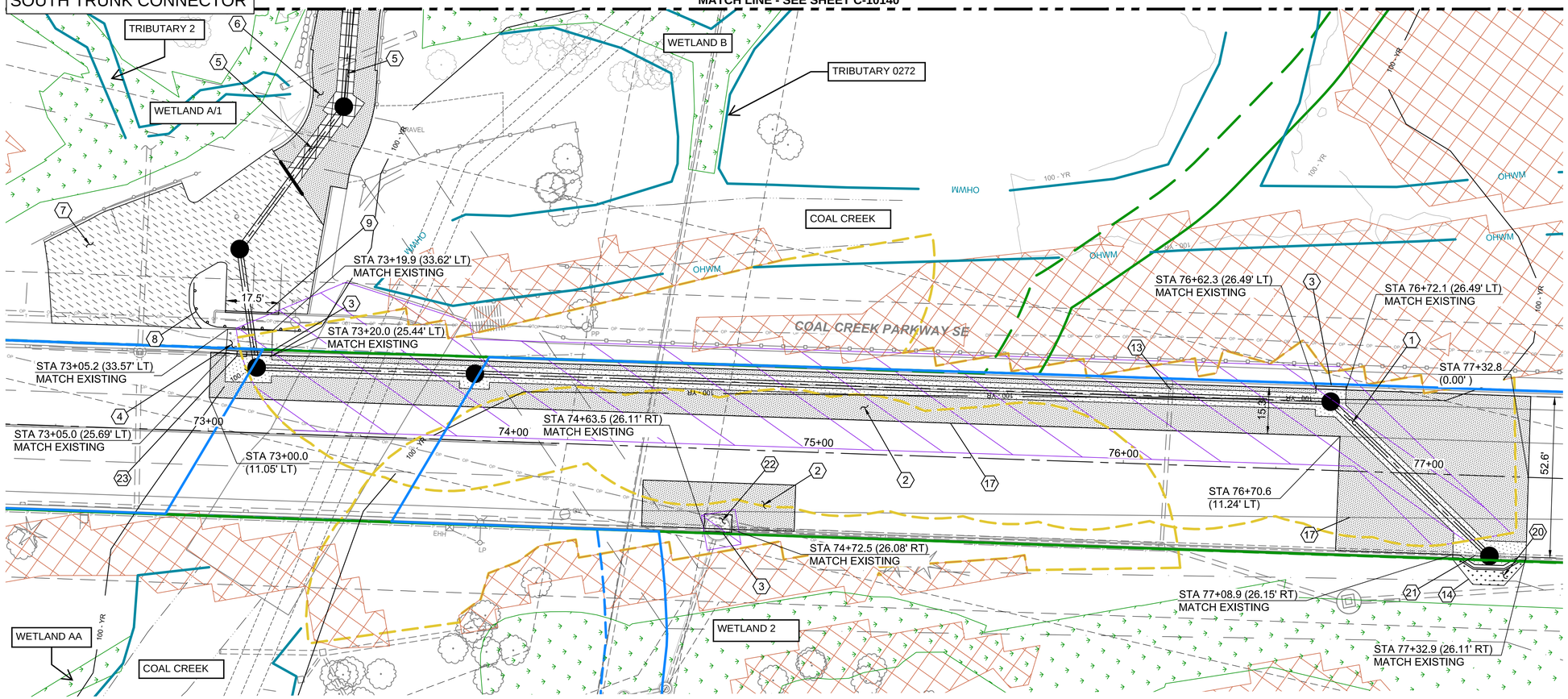
# SURFACE RESTORATION PARTIAL PLAN MICROTUNNEL RECEIVING SHAFT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10138
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.philippon@jacobs.com\d0406435\1123626-CCT900-C-10138.dwg | Layout: C-10138
PLOTTED: Sep 17, 2020-12:43:12pm By JV036010
XREFS: KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624Sheet Layout.dwg; 900-1123624RoadwayPavementRestore.dwg; 900-1123624Alignments.dwg; 900-1123624Alignments.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR

MATCH LINE - SEE SHEET C-10140




## LEGEND

- GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22
- 6" HMA CL. 1/2" PG 58H-22 TRENCH RESTORATION
- 10" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION OR PAVEMENT REPLACEMENT
- PERVIOUS PAVEMENT REPLACEMENT
- LANDSCAPE AREA REPLACEMENT

## LAND USE OVERLAY LEGEND

- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET

## GENERAL NOTES

1. SEE COB STD DWG NO. RC-190-1 FOR TYPICAL TRENCH IN RIGHT OF WAY DETAIL.
2. SEE COB STD DWG NO. RC-200-1 FOR ASPHALT OVERLAY FOR ROADWAY TRENCH RESTORATION REQUIREMENTS.
3. SEE TESC PLANS, SHEETS C-10001 TO C-10007, FOR CLEARING AND GRUBBING LIMITS.
4. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED AT EXISTING CATCH BASIN LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. EXISTING STORM SYSTEM TO REMAIN UNLESS OTHERWISE NOTED. SEE PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081.
6. CURB AND GUTTER AND SIDEWALK RECONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND REPLACE CURB AND GUTTER AND SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.
7. REMOVAL OF PLASTIC AND PAINTED PAVEMENT MARKINGS SHALL BE REMOVED WITH THE GRIND AND OVERLAY OF EXISTING PAVEMENT. FOR RESTORATION OF EXISTING CHANNELIZATION, SEE STRIPING AND SIGNING PLANS, SHEETS C-10150 TO C-10155.
8. FOR TREATMENT OF EXISTING SIGNS, SEE SIGNING AND STRIPING PLANS, SHEETS C-10150 TO C-10155.

## KEY NOTES

1. REMOVE EXISTING PAVEMENT AND INSTALL 10" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION PER COB STD DWG NO. RC-190-1.
2. GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22 FOR OVERLAY PER COB STD DWG NO. RC-200-1.
3. REMOVE AND RECONSTRUCT CEMENT CONC. CURB AND GUTTER PER COB STD DWG NO. RC-240-1 AND SW-100-1.
4. REMOVE AND RECONSTRUCT CEMENT CONC. SIDEWALK PER COB STD DWG NO. SW-110-1.
5. REMOVE EXISTNG PAVEMENT AND INSTALL 6" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION PER COB STD DWG NO. RC-190-1.
6. GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22 TO EDGE OF EXISTING PAVEMENT OR TO EXISTING CURB PER PER COB STD DWG NO. RC-200-1. EXISTING CURB TO REMAIN.
7. REMOVE EXISTING PAVEMENT AND INSTALL PERVIOUS PAVEMENT TO LIMITS OF EXISTING EDGE OF PAVEMENT OR CURB AND PER COAL CREEK PARKWAY TRAILHEAD PLANS, SHEETS C-10180 TO C-10186, USED FOR REFERENCE ONLY.
8. INSTALL GUARDRAIL PER WSDOT STD PLAN C-1a, C-1b, AND C-24.10-02.
9. REMOVE AND RECONSTRUCT CEMENT CONC. EXTRUDED CURB PER DETAIL, SHEET C-40130.
13. ADJUST MANHOLE/CATCH BASIN TO GRADE PER COB STD DWG NO. D-23.
14. CONSTRUCT WIDENED TRAFFIC CURB AND GUTTER FOR MANHOLE. SEE DETAIL, SHEET C-40130.
17. REMOVE RAISED PAVEMENT MARKERS WITHIN PAVEMENT RESTORATION LIMITS.
20. RESTORE EXISTING SURFACE AND LANDSCAPE CONDITIONS FOR TRENCH RESTORATION.
21. SEE CUT PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081, FOR TREATMENT OF EXISTING SEWER PIPE.
22. SEE DECOMISSIONING PLANS, SHEETS C-10100 TO C-10105, FOR TREATMENT OF EXISTING SEWER STRUCTURE.
23. REMOVE EXISTING CONCRETE INLET AND INSTALL CONCRETE INLET APPROXIMATELY 5' TO NORTH OF EXISTING INLET LOCATION AND INTERCEPT PIPE. SEE OPEN CUT PIPE PLAN AND PROFILE, SHEET C-10080.

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

JESSA MARIE DONA — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURFACE RESTORATION PARTIAL PLAN SOUTH TRUNK CONNECTOR

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10139
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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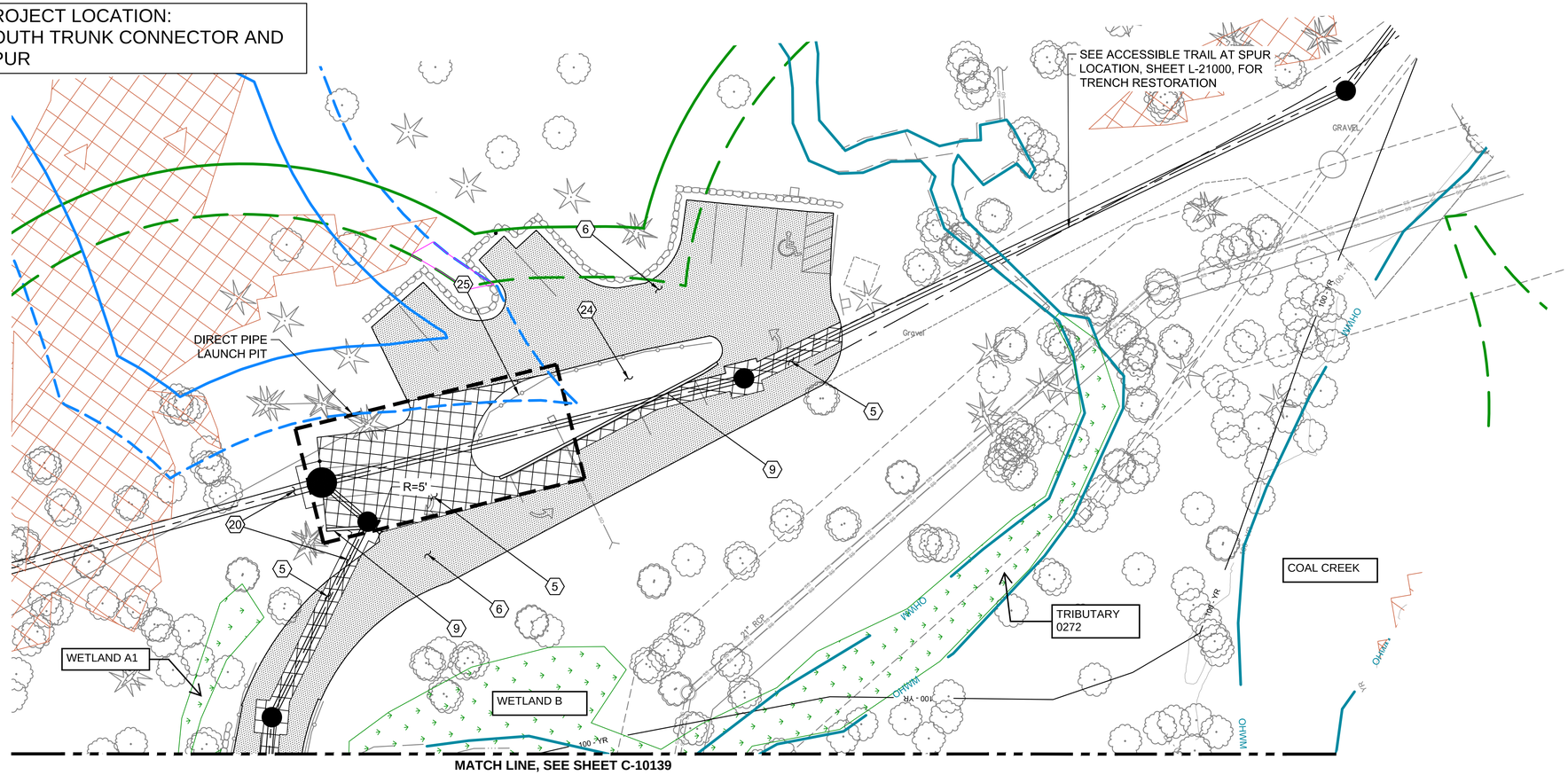
PLOTTED: Sep 17, 2020-12:37:49pm By JV036010
XREFS: KCWTD-Dsize-TB-Border.dwg, 116144-C3D 2017.dwg; 900-1123624Sheet Layout.dwg; 900-1123624RoadwayPavementRestore.dwg; 900-1123624Alignments.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR AND SPUR




## GENERAL NOTES

1. SEE COB STD DWG NO. RC-190-1 FOR TYPICAL TRENCH IN RIGHT OF WAY DETAIL.
2. SEE COB STD DWG NO. RC-200-1 FOR ASPHALT OVERLAY FOR ROADWAY TRENCH RESTORATION REQUIREMENTS.
3. SEE TESC PLANS, SHEETS C-10001 TO C-10007, FOR CLEARING AND GRUBBING LIMITS.
4. STORM DRAIN INLET PROTECTION SHALL BE INSTALLED AND MAINTAINED AT EXISTING CATCH BASIN LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. EXISTING STORM SYSTEM TO REMAIN UNLESS OTHERWISE NOTED. SEE PIPE PLANS AND PROFILES, SHEETS C-10010 TO C-10081.
6. CURB AND GUTTER AND SIDEWALK RECONSTRUCTION LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL REMOVE AND REPLACE CURB AND GUTTER AND SIDEWALK TO THE NEAREST JOINT OR AS DIRECTED BY THE ENGINEER.
7. REMOVAL OF PLASTIC AND PAINTED PAVEMENT MARKINGS SHALL BE REMOVED WITH THE GRIND AND OVERLAY OF EXISTING PAVEMENT. FOR RESTORATION OF EXISTING CHANNELIZATION, SEE STRIPING AND SIGNING PLANS, SHEETS C-10150 TO C-10155.
8. FOR TREATMENT OF EXISTING SIGNS, SEE SIGNING AND STRIPING PLANS, SHEETS C-10150 TO C-10155.

## KEY NOTES

5. REMOVE EXISTNG PAVEMENT AND INSTALL 6" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION PER COB STD DWG NO. RC-190-1.
6. GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22 TO EDGE OF EXISTING PAVEMENT OR TO EXISTING CURB PER PER COB STD DWG NO. RC-200-1. EXISTING CURB TO REMAIN.
9. REMOVE AND RECONSTRUCT CEMENT CONC. EXTRUDED CURB PER DETAIL, SHEET C-40130.
20. RESTORE EXISTING SURFACE AND LANDSCAPE CONDITIONS FOR TRENCH RESTORATION.
24. RESTORE EXISTING RAINGARDEN PER COAL CREEK PARKWAY TRAILHEAD PLANS, SHEETS C-10180 TO C-10186, USED FOR REFERENCE ONLY.
25. RESTORE FENCE TO EXISTING CONDITIONS.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

## LEGEND

- GRIND AND OVERLAY 2" HMA CL. 1/2" PG 58H-22
- 6" HMA CL. 1/2" PG 58H-22 FOR TRENCH RESTORATION

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

JESSA MARIE DONATO — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER

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| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURFACE RESTORATION PARTIAL PLAN DIRECT PIPE LAUNCH PIT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10140
SHT NO / TOTAL: # / #
REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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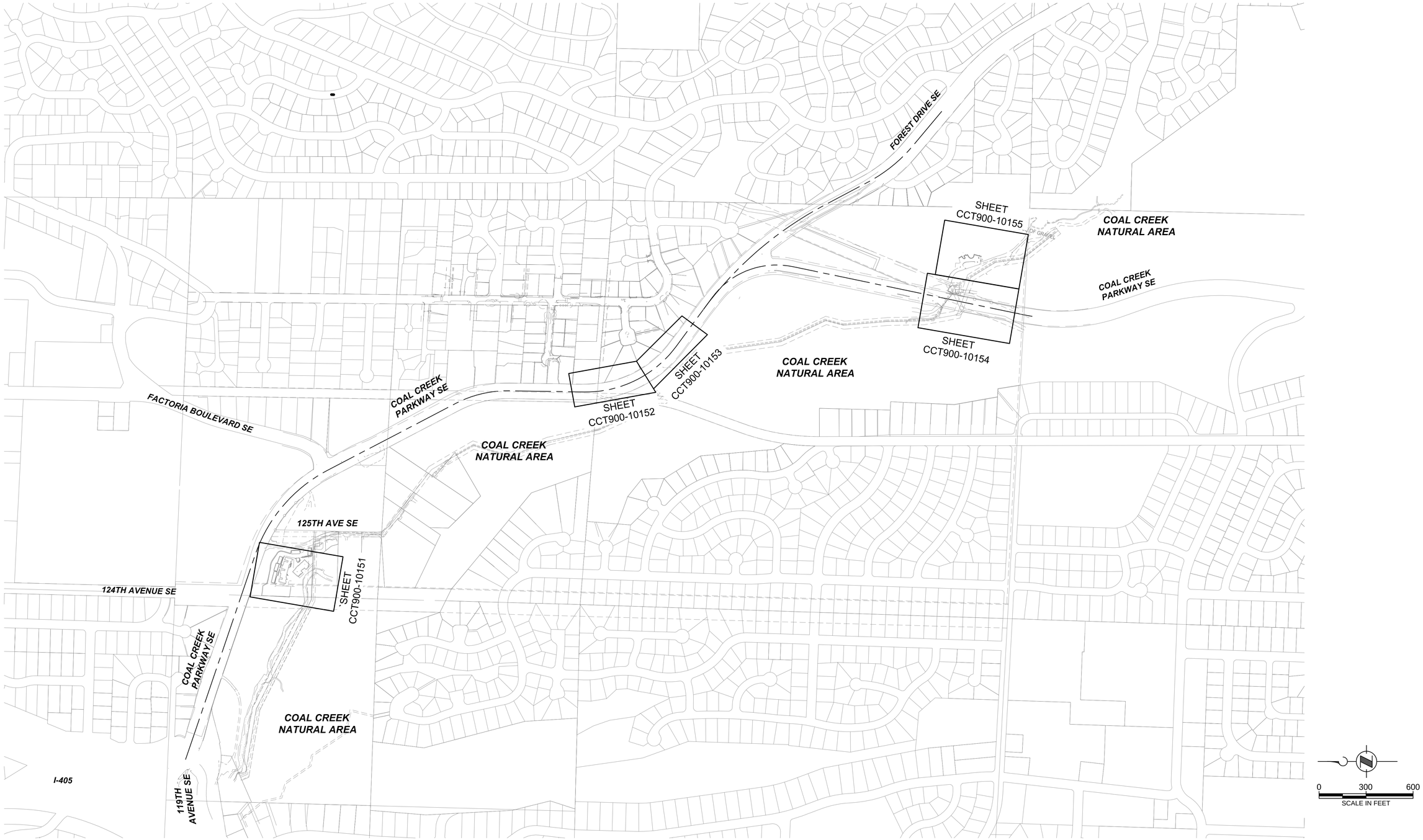
XREFS: KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017 08-14-19.DWG; 900-1123624Sheet Layout.dwg; 900-1123624RoadwayPavementRestore.dwg; 900-1123624Alignments.dwg; 900-1123624Alignments Perteet.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:




REFERENCE 1"
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BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-10:01:49am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624Sheet Layout.dwg; 900-1123624 Signing and Striping Plan.dwg; zexistingdata.DWG; 116144-C3D 2017.dwg
IMAGES:

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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VANESSA MARIE DONATO — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER

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| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=300' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

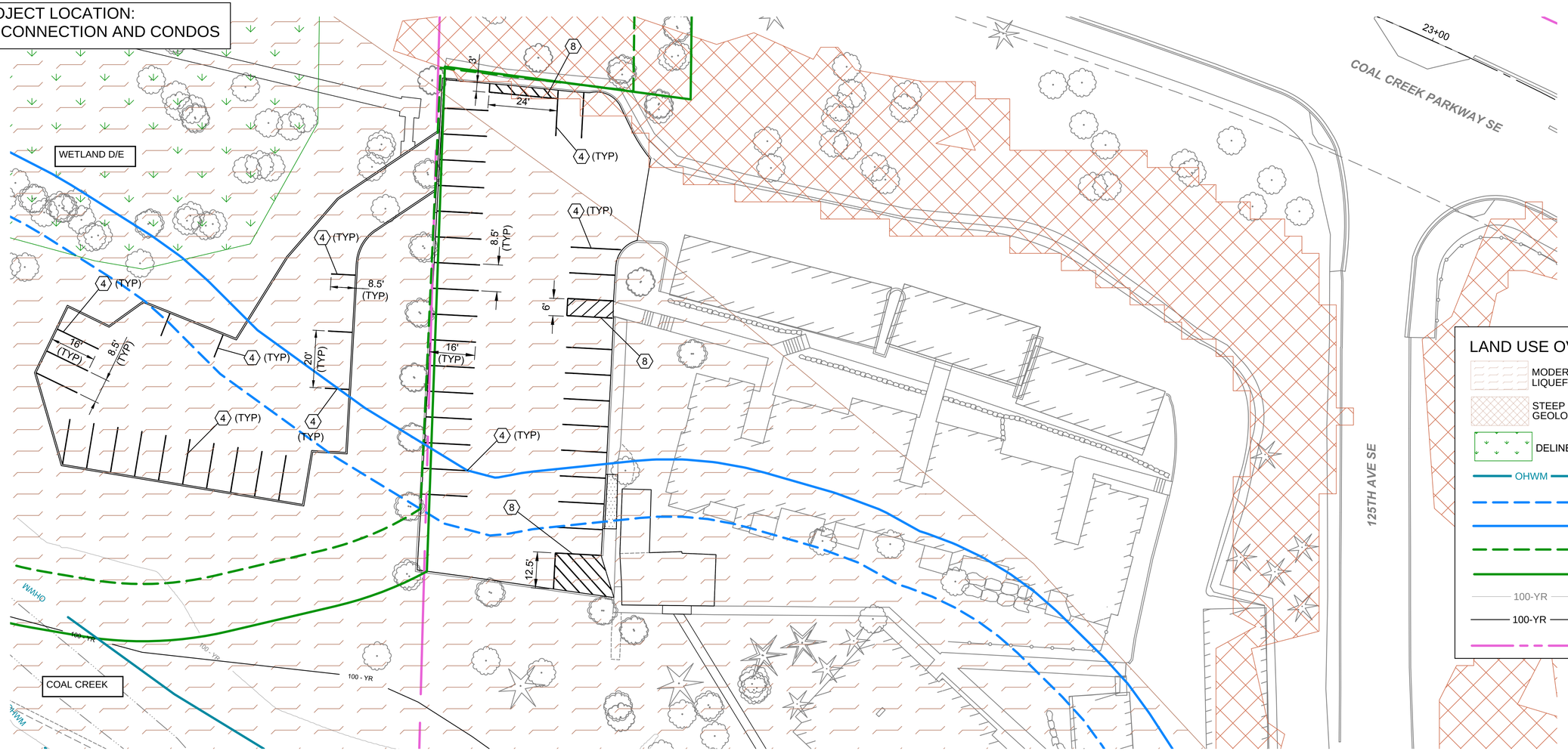
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STRIPING AND SIGNING KEYMAP

DATE: DECEMBER 2020
DRAWING NO: **CCT900-C-10150**
SHT NO # / TOTAL #
REV NO: **0**

PROJECT LOCATION:
ESI CONNECTION AND CONDOS




## GENERAL NOTES

1. ALL EXISTING CHANNELIZATION SHALL BE REMOVED AND REPLACED TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED AND AS APPROVED BY THE ENGINEER.
2. ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO OVERLAY.
3. ALL DIMENSIONS ARE TO FACE OF CURB OR CENTER OF STRIPING.

## KEY NOTES

4. INSTALL 4" WHITE PAINT LINE.
8. INSTALL PARKING AISLE. SEE DETAIL, SHEET C-40150.

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE-FAMILY TRANSITION AREA

0 20 40
SCALE IN FEET

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|---|---|---|---|---|

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|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M . HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

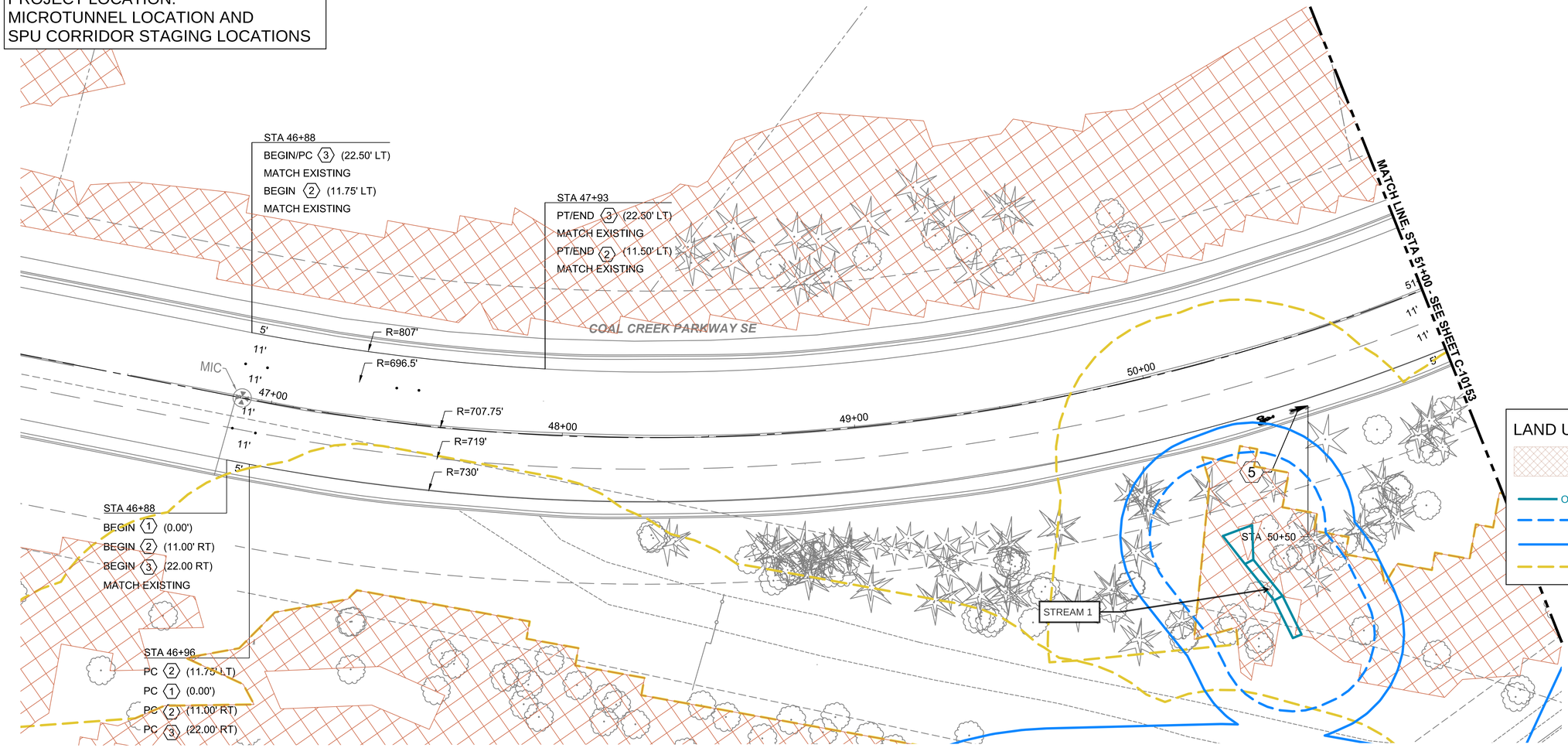
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STRIPING AND SIGNING PLAN 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10151
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\bnvncald-pw.bentley.com_bnvncald-pw-01\julie.philippon@jacobs.com\d0406435\1123626-CCT900-C-10151.dwg | Layout: C-10151
PLOTTED: Sep 17, 2020-01:03:51pm By JV036010
XREFS: KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624Sheet Layout.dwg; 900-1123624 Signing and Striping Plan.dwg; 900-1123624Proposed.dwg; 900-1123624RoadwayPavementRestore.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION AND
SPU CORRIDOR STAGING LOCATIONS




## GENERAL NOTES

1. ALL EXISTING CHANNELIZATION SHALL BE REMOVED AND REPLACED TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED AND AS APPROVED BY THE ENGINEER.
2. ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO OVERLAY.
3. ALL DIMENSIONS ARE TO FACE OF CURB OR CENTER OF STRIPING.

## KEY NOTES

1. INSTALL CENTER BARRIER LINE PER COB STD DWG NO. CH-100-1 AND CH-120-1.
2. INSTALL BROKEN LANE LINE PER COB STD DWG NO. CH-100-1 AND CH-120-1.
3. INSTALL 6" WHITE PAINT LINE.
5. INSTALL BICYCLE LANE SYMBOL PER COB STD DWG NO. CH-270-1.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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JESSA MARIE DOMINGO — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER
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| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STRIPING AND SIGNING PLAN 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10152
SHT NO # / TOTAL # REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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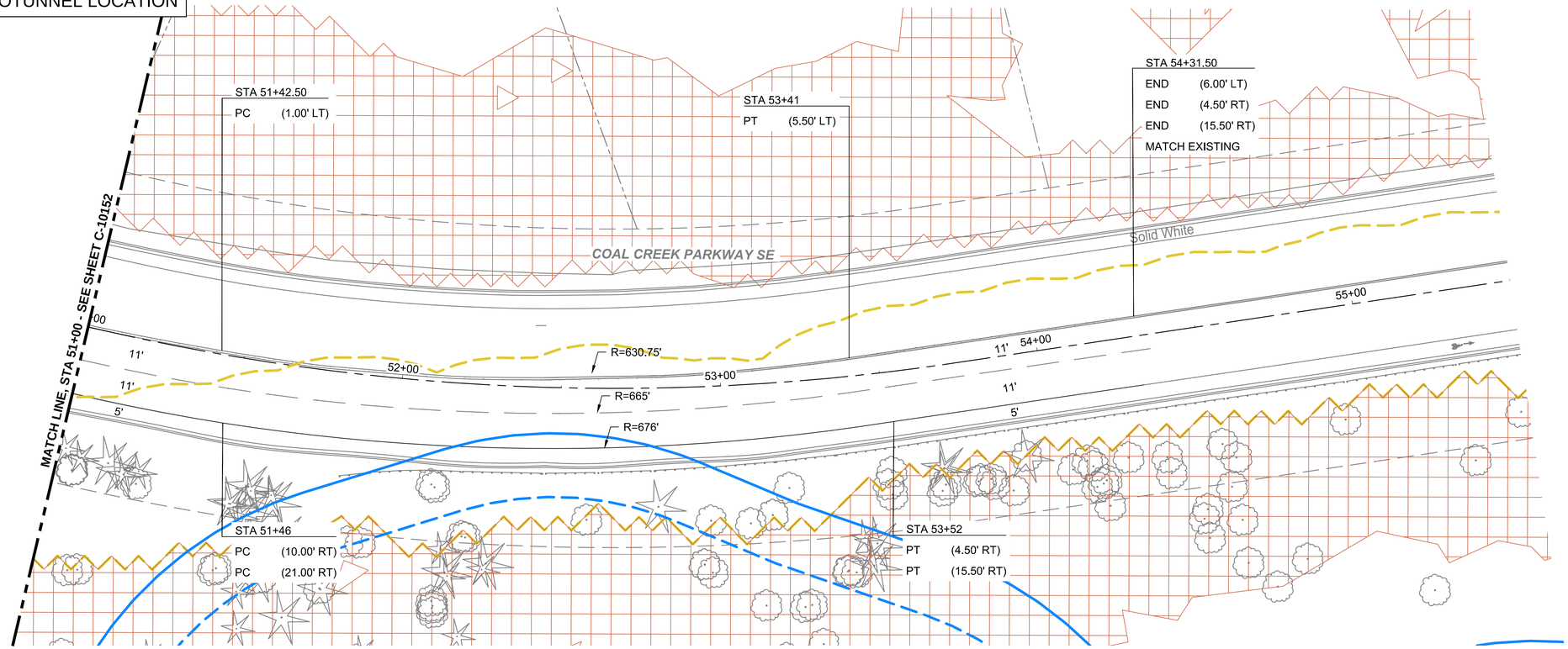
PLOTTED: Sep 21, 2020-09:16:09pm By shernyae
XREFS: KCWTD-Dsize-TB-Border.dwg, J16144-C3D 2017.dwg, 900-1123624Sheet Layout.dwg, 900-1123624 Signing and Striping Plan.dwg, 900-1123624Permitting.dwg, Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION




## GENERAL NOTES

1. ALL EXISTING CHANNELIZATION SHALL BE REMOVED AND REPLACED TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED AND AS APPROVED BY THE ENGINEER.
2. ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO OVERLAY.
3. ALL DIMENSIONS ARE TO FACE OF CURB OR CENTER OF STRIPING.

## KEY NOTES

1. INSTALL DOUBLE CENTER LINE PER COB STD DWG NO. CH-100-1 AND CH-120-1.
2. INSTALL BROKEN LANE LINE PER COB STD DWG NO. CH-100-1 AND CH-120-1.
3. INSTALL 6" WHITE PAINT LINE.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

TESSA MARIE DONATO — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER
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| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STRIPING AND SIGNING PLAN 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10153
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.philippon@jacobs.com\d0406435\1123626-CCT900-C-10153.dwg | Layout: C-10153
PLOTTED: Sep 17, 2020-01:18:13pm By JV036010
XREFS: KCWTD-Dsize-TB-Border.dwg, J16144-C3D 2017.dwg, 900-1123624Sheet Layout.dwg, 900-1123624 Signing and Striping Plan.dwg, 900-1123624Permitting.dwg, Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR

MATCH LINE - SEE SHEET C-10155

TRIBUTARY 2

WETLAND A/1

18'

8.5'

(TYP) 4

WETLAND B

TRIBUTARY 0272

GRAVEL

STREAM

COAL CREEK

COAL CREEK PARKWAY SE

STA 77+32
END 3 (22.00' LT)
END 2 (11.00' LT)
END 1 (0.00' )
MATCH EXISTING

73+00

74+00

75+00

76+00

77+00

STA 73+00
BEGIN 2 (11.00' LT)
BEGIN 3 (22.00' LT)
MATCH EXISTING

CL OF STREAM

COAL CREEK

WETLAND AA

WETLAND BB

STA 74+33
AP 2 (11.00' LT)
AP 3 (22.00' LT)
MATCH EXISTING

WETLAND 2

STA 76+70.50
BEGIN 1 (0.00')
BEGIN 2 (11.00' RT)
BEGIN 3 (22.00' RT)
MATCH EXISTING

STA 77+32
END 2 (11.00' RT)
END 3 (22.00' RT)
MATCH EXISTING

## GENERAL NOTES

1. ALL EXISTING CHANNELIZATION SHALL BE REMOVED AND REPLACED TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED AND AS APPROVED BY THE ENGINEER.
2. ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO OVERLAY.
3. ALL DIMENSIONS ARE TO FACE OF CURB OR CENTER OF STRIPING.

## KEY NOTES

1. INSTALL DOUBLE CENTER LINE PER COB STD DWG NO. CH-100-1 AND CH-120-1.
2. INSTALL BROKEN LANE LINE PER COB STD DWG NO. CH-100-1 AND CH-120-1.
3. INSTALL 6" WHITE PAINT LINE.
4. INSTALL 4" WHITE PAINT LINE.

## LAND USE OVERLAY LEGEND

- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND SETBACK
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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ESSA MARIE DON — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER
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|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STRIPING AND SIGNING PLAN 4

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10154
SHT NO # / TOTAL #
REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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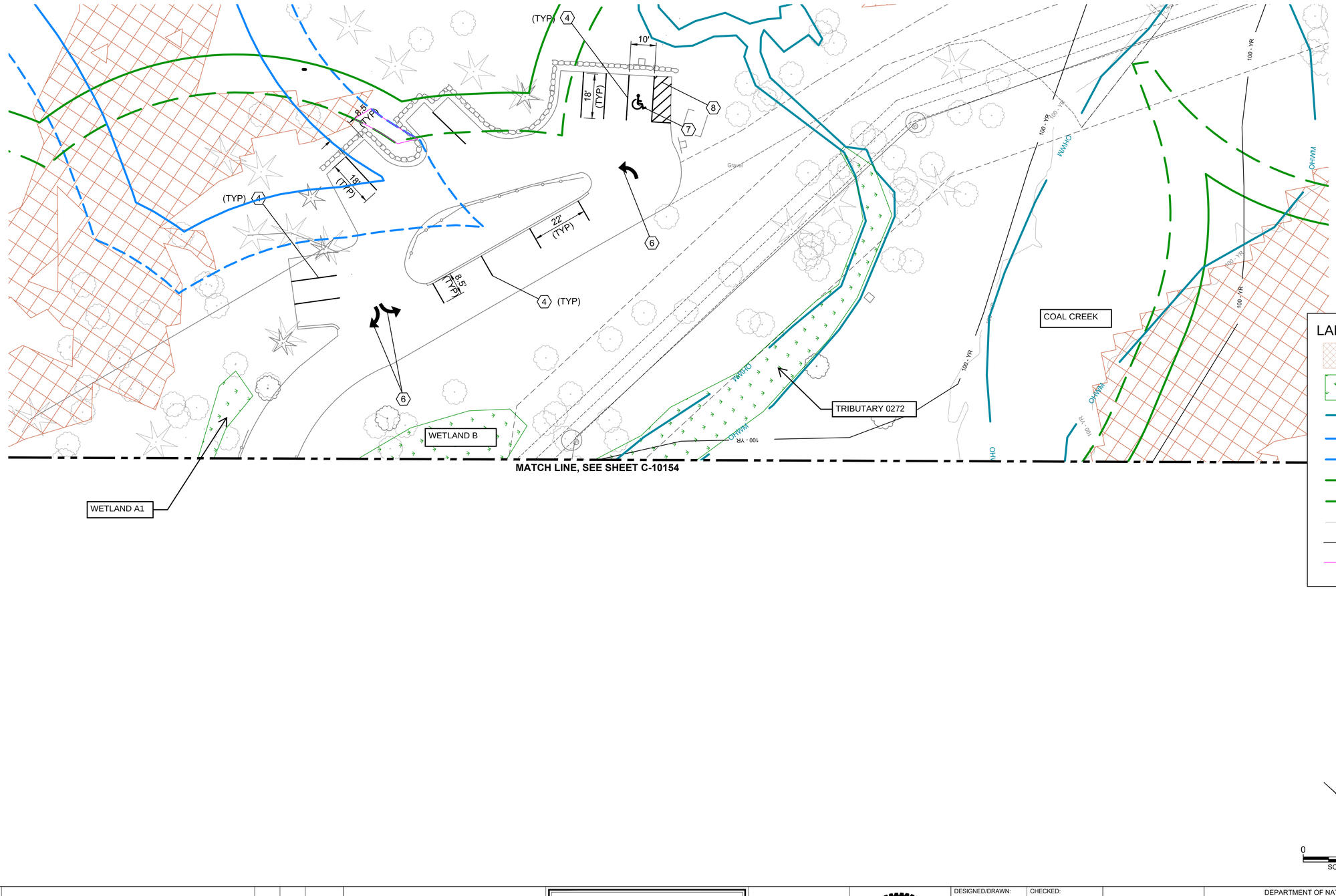
PLOTTED: Dec 08, 2020-04:01:21pm By JV036010
XREFS: KCWTD-Dsize-TB-Border.dwg, J16144-C3D 2017 08-14-19.DWG; 900-1123624Sheet Layout.dwg; 900-1123624 Signing and Striping Plan.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR AND SPUR




## GENERAL NOTES

1. ALL EXISTING CHANNELIZATION SHALL BE REMOVED AND REPLACED TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED AND AS APPROVED BY THE ENGINEER.
2. ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO OVERLAY.
3. ALL DIMENSIONS ARE TO FACE OF CURB OR CENTER OF STRIPING.

## KEY NOTES

4. INSTALL 4" WHITE PAINT LINE.
6. INSTALL TRAFFIC ARROW PER COB STD DWG NO. CH-170-1.
7. INSTALL ACCESS PARKING SPACE SYMBOL (STANDARD) PER WSDOT STD PLAN M-24.60-04.
8. INSTALL PARKING AISLE. SEE DETAIL, SHEET C-40150.

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- DESIGNATED CRITICAL HABITAT AREA

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

JESSA MARIE DOW — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER
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| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1'=20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

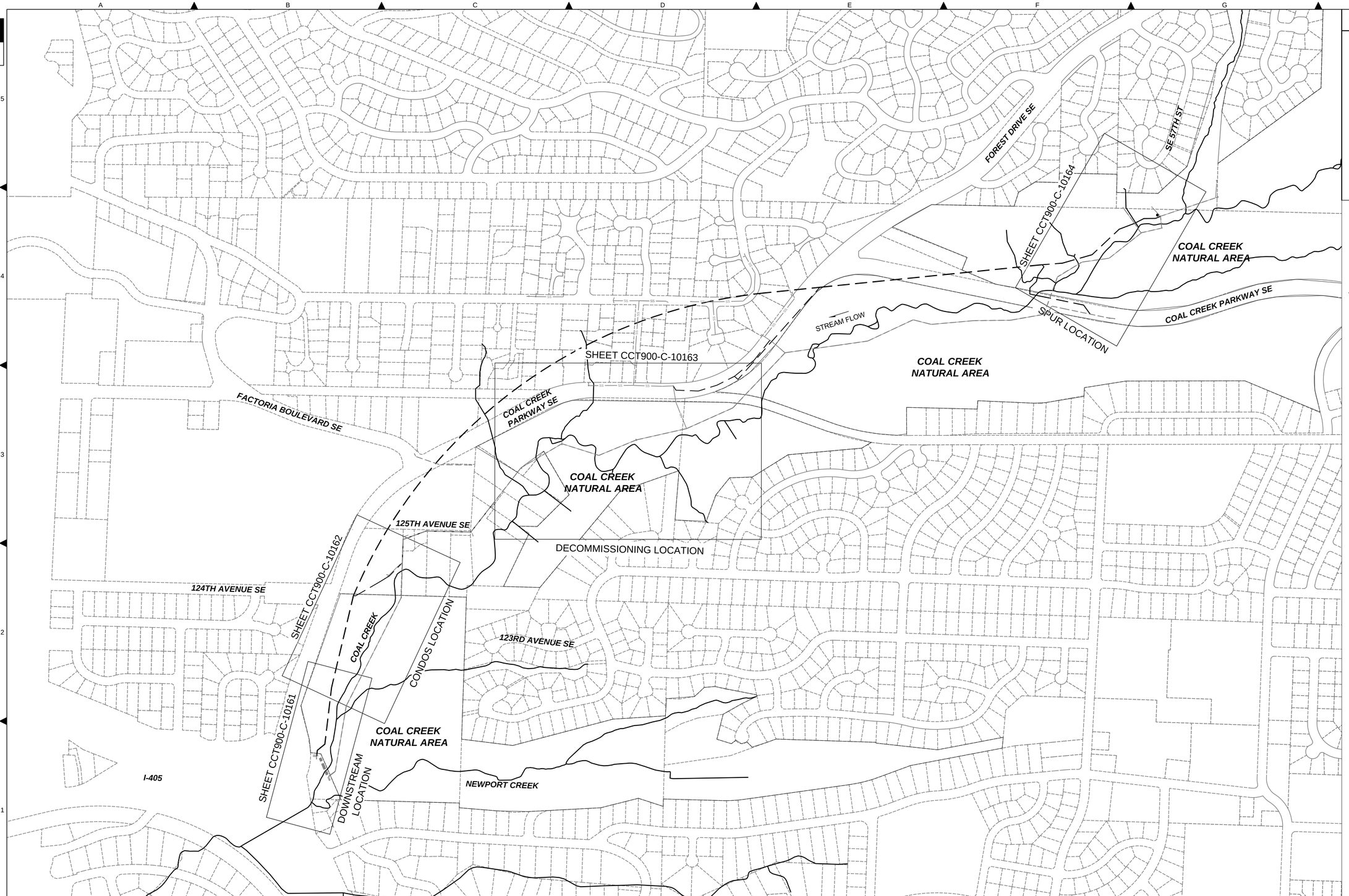
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STRIPING AND SIGNING PLAN 5

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10155
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\sherryae\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\aaron.sherry@jacobs.com\d0406435\1123626-CCT900-C-10155.dwg | Layout: C-10155
PLOTTED: Sep 17, 2020-02:22:35pm By sherryae
XREFS: KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624Sheet Layout.dwg; 900-1123624 Signing and Striping Plan.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:




## GENERAL NOTES

1. GIS BASED AND LiDAR DATA ARE USED TO SUPPLEMENT SURVEY DATA IN ALL DRAWINGS. SUBSEQUENT DRAWINGS AT FINER SCALE SHOW SURVEY DATA IN PLACE OF LiDAR/ GIS.
2. HORIZONTAL DATUM: NAD83/2011 WASHINGTON STATE NORTH ZONE, US FEET.
3. VERTICAL DATUM: KING COUNTY METRO DATUM.

**LEGEND**

- STREAM (CITY OF BELLEVUE GIS)
- EXISTING SEWER
- PROPOSED SEWER

0 300 600 900
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

NICHOLAS VANDUSEN — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION KEY MAP

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10160
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-12:32:38pm By kinseym2
XREFS: zexistingdata.DWG; 900-1123624Alignments.dwg; Critical_Areas_Basemap.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
ESI CONNECTION

REFERENCE 0 1"

## GENERAL NOTES

1. EXISTING OWHM AND BANKFULL ARE CONSIDERED TO REPRESENT THE SAME AREAS AND LINES.
2. SURROUNDING LiDAR FROM WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, 2016.

## KEY NOTES

1. PROPOSED SEWER SEE SHEET CCT900-C-10011.
2. EXISTING SEWER.

**LEGEND**

- STREAM (CITY OF BELLEVUE GIS)
- WORK LIMITS
- WETLAND
- 100-YR FLOOD EXTENT (CITY OF BELLEVUE GIS)
- OWHM (WINTER 2018 FIELD SURVEY BY CH2M)

COAL CREEK PARKWAY SE

119TH AVENUE SE

WETLAND A

WETLAND A

WETLAND F

WETLAND B1

WETLAND C

WETLAND D/E

RE*COAL.R33-01

RE*COAL.R33-02

RE*COAL.R33-03

RE*COAL.R13-01

RE*COAL.R13-02

I-405 CULVERT

COAL CREEK

COAL CREEK STREAM FLOW

NEWPORT CREEK

1

2

MATCH LINE, SEE SHEET CCT900-C-10162

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | ch2m: AND ASSOCIATED FIRMS

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DECEMBER 2020

NICHOLAS VANDERHEYDEN — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| DESIGNED/DRAWN: | CHECKED: |
|---|---|
| M. KINSEY | S. CLAYTON |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | AS SHOWN |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK OVERVIEW DOWNSTREAM LOCATION STA 190+00 TO 195+00

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-10161

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Dec 09, 2020-03:07:18pm By JV036010
XREFS: zexistingdata.DWG, J16144-C3D 2017.dwg; 900-1123624Alignments.dwg; 900-1123624EGCombinedSurface.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
ESI CONNECTION, CONDOS, AND 125TH AVENUE SE

REFERENCE 1"
0

COAL CREEK PARKWAY SE

RE*COAL.R33-04
RE*COAL.R33-04A
200+00
201+00
202+00
203+00
204+00
125TH AVENUE SE

RE*COAL.R33-04B
SHEET CCT900-C-10165
RE*COAL.R33-04C
RE*COAL.R33-04D
RE*COAL.R13-06
RE*COAL.R13-05
STREAM FLOW
TRIBUTARY #268
RE*COAL.R13-04

1
2

WETLAND D/E
COAL CREEK
STREAM FLOW
RE*COAL.R13-02
WETLAND C
MATCH LINE, SEE SHEET CCT900-C-10161

## GENERAL NOTES

1. EXISTING OHWM AND BANKFULL ARE CONSIDERED TO REPRESENT THE SAME AREAS AND LINES.
2. SURROUNDING LiDAR FROM WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, 2016.
3. STREAM TOPOGRAPHIC AND BATHYMETRIC SURVEY COMPLETED MAY 2019.
4. LARGE WOODY MATERIAL SURVEY COMPLETED MAY 2019 AND LIMITED TO PROJECT BOUNDARY.

## KEY NOTES

1. PROPOSED SEWER SEE SHEET CCT900-C-10012
2. EXISTING SEWER

**LEGEND**

- STREAM (CITY OF BELLEVUE GIS)
- WORK LIMITS
- WETLAND
- 100-YR FLOOD EXTENTS (CITY OF BELLEVUE GIS)
- OHWM (WINTER 2018 FIELD SURVEY BY CH2M)
- EXISTING LARGE WOODY MATERIAL

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- ESTIMATED OHWM
- DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- MODELED 100-YEAR FLOODPLAIN
- 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- SINGLE-FAMILY TRANSITION AREA
- DESIGNATED CRITICAL HABITAT AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

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DECEMBER 2020

LICENSED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — KYLE WILLIAM JACOBSEN — 46074 — NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

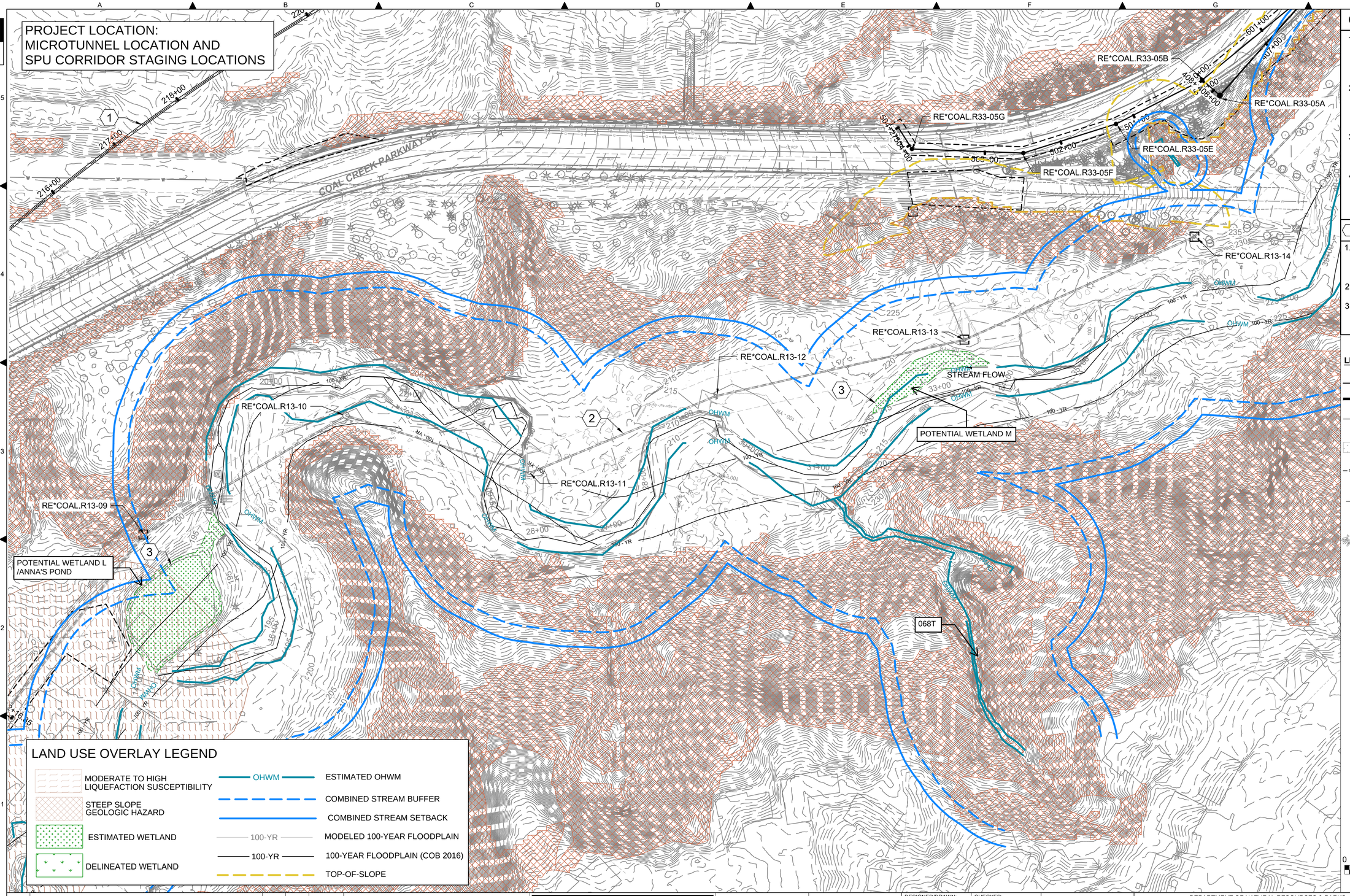
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK OVERVIEW CONDOS LOCATION STA 195+00 TO 205+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10162
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brvncald-pw.bentley.com_brvncald-pw-01\julie.phillippon@jacobs.com\d0406435\1123626-CCT900-C-10162.dwg | Layout: CCT900- C-10162
PLOTTED: Dec 08, 2020-04:21:52pm By JV036010
XREFS: zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION AND
SPU CORRIDOR STAGING LOCATIONS




## GENERAL NOTES

1. EXISTING OWHM AND BANKFULL ARE CONSIDERED TO REPRESENT THE SAME AREAS AND LINES.
2. SURROUNDING LiDAR FROM WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, 2016.
3. STREAM TOPOGRAPHIC AND BATHYMETRIC SURVEY COMPLETED JULY 2019.
4. LARGE WOODY MATERIAL SURVEY COMPLETED JULY 2019 AND LIMITED TO PROJECT BOUNDARY.

## KEY NOTES

1. PROPOSED SEWER SEE SHEET CCT900-C-10013 AND CCT900-C-10050
2. EXISTING SEWER
3. WETLAND LIMITS, FIELD ESTIMATED THROUGH VISUAL RECON, AUGUST 2019

**LEGEND**

- STREAM THALWEG
- WORK LIMITS
- OHWM (ESTIMATED BASED ON JULY 2019 SURVEY)
- WETLAND
- 100-YR — 100-YR FLOOD EXTENTS (CITY OF BELLEVUE GIS)
- OHWM — OHWM (WINTER 2018 FIELD SURVEY BY CH2M)
- EXISTING LARGE WOODY MATIERIAL

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 60 120 180
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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AND ASSOCIATED FIRMS

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DECEMBER 2020

NICHOLAS VANDUE — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK OVERVIEW DECOMMISSIONING LOCATION STA 312+00 TO 601+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10163
SHT NO / TOTAL #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\1123626-CCT900-C-10163.dwg | Layout: CCT900- C-10163
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XREFS: Stream Restoration.dwg; zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624Alignments.dwg; 900-1123624EGCombinedSurface.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR
AND SPUR

WETLAND B
RE*COAL.R13-22A
RE*COAL.R33-07
TRIBUTARY #0272
RE*COAL.R13-23
RE*COAL.R33-08
WETLAND G
RE*COAL.R33-09
TRIBUTARY #1
STREAM FLOW
COAL CREEK
WETLAND H
EXISTING 18-INCH CULVERT
WETLAND J
RE*COAL.R33-10
RE*COAL.R33-11
SHEET CCT900-C-10168
SHEET CCT900-C-10166
RE*COAL.R13-24
WETLAND I
RE*COAL.R13-25
RE*COAL.R33-12
RE*COAL.R13-25A
RE*COAL.R33-13
TRIBUTARY #0273
SHEET CCT900-C-10167
RE*COAL.R13-25B
RE*COAL.R13-25C
MH25B TEMPORARY BENDWAY WEIRS AND BANK STABILIZATION INSTALLED IN AUGUST 2020 TO BE FULLY REMOVED DURING STREAM RESTORATION.

## GENERAL NOTES

1. EXISTING OHWM AND BANKFULL ARE CONSIDERED TO REPRESENT THE SAME AREAS AND LINES.
2. SURROUNDING LiDAR FROM WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, 2016.
3. STREAM TOPOGRAPHIC AND BATHYMETRIC SURVEY COMPLETED MAY 2019.
4. LARGE WOODY MATERIAL SURVEY COMPLETED MAY 2019 AND LIMITED TO PROJECT BOUNDARY.

## KEY NOTES

1. PROPOSED SEWER SEE SHEET CCT900-C-10070 AND CCT900-C-10071
2. EXISTING SEWER
3. STREAM SEDIMENT MAINTENANCE BYPASS
4. WOODEN PEDESTRIAN BRIDGE

**LEGEND**

- STREAM (CITY OF BELLEVUE GIS)
- WORK LIMITS
- WETLAND
- 100-YR FLOOD EXTENT (CITY OF BELLEVUE GIS)
- EXISTING LARGE WOODY MATERIAL

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

NICOLAS VANDUNK — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK OVERVIEW SPUR LOCATION STA 700+00 TO 708+00

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10164
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\bnvncald-pw.bentley.com_bnvncald-pw-01\julie.phillippon@jacobs.com\d0406435\1123626-CCT900-C-10164.dwg | Layout: CCT900- C-10164
PLOTTED: Dec 08, 2020-04:59:01pm By JV036010
XREFS: zexistingdata DWG; J16144-C3D 2017.dwg; 900-1123624Alignments.dwg; 900-1123624EGCombinedSurface.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624Permitting.dwg; 900-1123624Permitting.dwg;
IMAGES:

PROJECT LOCATION:
CONDOS STREAM RESTORATION

## KEY NOTES

1. FOR STREAMBED AGGREGATE LIMITS SEE SHEET CCT900-C-40163.
2. EXCAVATE AND PLACE FABRIC-ENCAPSULATED SOIL LIFT (FESL). TOE ROCK NOT SHOWN FOR CLARITY, SEE A/CCT900-C-40166 FOR DETAIL.
3. EXCAVATE AND PLACE LWM BANK PROTECTION STRUCTURE. SEE B/CCT900-C-40160 FOR DETAIL.
4. FOUNDATION LOG NOT SHOWN FOR CLARITY.
5. PROPOSED SEWER SEE SHEET CCT900-C-10030
6. EXISTING SEWER
7. MAINTAIN A MINIMUM OF 30 FEET SEPARATION FROM THE TREE TO THE EDGE OF THE SOIL LIFTS.
8. PROTECT IN PLACE EXISTING STORM DRAIN.
9. MAINTAIN A MINIMUM OF 5 FEET SEPARATION FROM THE PROPOSED SEWER TO THE EDGE OF THE LARGE WOODY MATERIAL
10. EXCAVATE AND PLACE LWM BANK PROTECTION CROSS STRUCTURE, SEE A/CCT900-C-40160 FOR DETAIL.

**LEGEND**

- WORK LIMITS
- OHWM (MAY 2019 SURVEY)
- EXISTING 100-YR FLOOD EXTENT (PROJECT MODEL)
- PROPOSED 2-YR FLOOD EXTENT (PROJECT MODEL)
- PROPOSED 100-YR FLOOD EXTENT (PROJECT MODEL)
- EXISTING LARGE WOODY MATERIAL
- PROPOSED LARGE WOODY MATERIAL
- EXISTING WETLAND
- PROPOSED SOIL LIFT

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- SINGLE-FAMILY TRANSITION AREA

SCALE IN FEET: 0 10 20 30

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

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DECEMBER 2020

NICHOLAS VANDUE — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION AT CONDOS LOCATION

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10165
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d04064351\1123626-CCT900-C-10165.dwg | Layout: CCT900- C-10165
PLOTTED: Dec 08, 2020-05:13:10pm By JV036010
XREFS: zexistingdata.DWG; J16144-C3D 2017.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123624Alignments.dwg; KCWTD_Dsize-TB-Border.dwg; Stream Restoration- Condos.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SPUR STREAM RESTORATION

TRIBUTARY #1

RE*COAL .R33-10

RE*COAL.R13-25

RE*COAL.R13-25A

RE*COAL.R13-25B

RE*COAL.R13-25C

WETLAND H

WETLAND I

WETLAND J

COAL CREEK

STREAM FLOW

TRAIL

15" RCP

MH25B TEMPORARY BENDWAY WEIRS AND BANK STABILIZATION INSTALLED IN AUGUST 2020 TO BE FULLY REMOVED DURING STREAM RESTORATION.

MATCH LINE - SEE DWG CCT900-C-10167

CCT900-C-20161

CCT900-C-20160

CCT900-C-30161

CCT900-C-30162

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

## GENERAL NOTES

1. TOE ROCK AND FOUNDATION LOG NOT SHOWN FOR CLARITY
2. FOR STREAMBED AGGREGATE LIMIT SEE SHEET CCT900-C-40164

## KEY NOTES

1. PROPOSED STREAM CENTERLINE ALIGNMENT
2. PROPOSED SEWER SEE SHEET CCT900-C-10071
3. EXISTING SEWER
4. PROPOSED RETAINING WALL SEE SHEET CCT900-S-20070 FOR ADDITIONAL INFORMATION.
5. EXCAVATE AND PLACE FABRIC-ENCAPSULATED SOIL LIFT (FESL) ON TOP OF LARGE WOODY MATERIAL. SEE B/ CCT900-C-40166 FOR DETAIL.
6. PROPOSED ACCESS ROAD SEE SHEET CCT900-L-11008
7. EXCAVATE AND PLACE LWM BANK PROTECTION STRUCTURE. SEE B/CCT900-C-40160 FOR DETAIL.
8. EXCAVATE AND PLACE LWM FLOW DEFLECTION STRUCTURE. SEE A/CCT900-C-40161 FOR DETAIL.
9. EXCAVATE AND PLACE LWM FLOODPLAIN HABITAT LOG. SEE B/CCT900-C-40161 FOR DETAIL.
10. FOR DETAILS ON PROPOSED TRIBUTARY #1 SEE SHEET CCT900-C-10168
11. EXISTING SEWER PIPE FROM R13-25B TO R13-25A TO BE REMOVED. SEE SEWER DECOMMISSIONING SHEETS CCT900-C-10105 FOR ADDITIONAL INFORMATION.
12. MAINTAIN A MINIMUM OF 5 FEET SEPARATION FROM THE PROPOSED SEWER TO THE EDGE OF THE LARGE WOODY MATERIAL.
13. HIGH FLOW CONVEYANCE CHANNEL SEE SHEET CCT900-C-20161

## LEGEND

- WORK LIMITS
- EXISTING THALWEG
- OHWM — OHWM (MAY 2019 SURVEY)
- 100-YR — EXISTING 100-YR FLOOD EXTENT (PROJECT MODEL)
- 2 YR — PROPOSED 2-YR FLOOD EXTENT (PROJECT MODEL)
- 100-YR — PROPOSED 100-YR FLOOD EXTENT (PROJECT MODEL)
- EXISTING LARGE WOODY MATERIAL
- PROPOSED LARGE WOODY MATERIAL
- WETLAND
- PROPOSED SOIL LIFT

0 10 20 30
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

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DECEMBER 2020

NICHOLAS VANDUSEN — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION AT SPUR LOCATION

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10166
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: zexistingdata.DWG; 900-1123624Alignments.dwg; J16144-C3D 2017.dwg; Stream Restoration.dwg; 900-1123624EGCombinedSurface.dwg; KCWTD-Dsize-TB-Border.dwg; B-Border.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SPUR STREAM RESTORATION

WETLAND J

MATCH LINE - SEE DWG/CCT900-C-10166

0+96.73

12"

6

7

5

4

3

2

1

A

0+50

3+00

0+00

CCT900-C-20161

CC 900-C-30163

3+44.29

74+00

75+00

75+85.63

STREAM FLOW

TRIBUTARY #0273

OHWM

100 - YR

100-YR

2 YR

SMH NO. 3614
RIM EL=294

## GENERAL NOTES

1. FOR STREAMBED AGGREGATE LIMITS SEE SHEET CCT900-C-40164

## KEY NOTES

1. PROPOSED CREEK CENTERLINE ALIGNMENT
2. EXISTING SEWER
3. UPSTREAM LIMIT OF MAY 2019 SURVEY.
4. TOE ROCK AND FOUNDATION LOG NOT SHOWN FOR CLARITY
5. EXCAVATE AND PLACE LWM FLOW DEFLECTION STRUCTURE. SEE A/CCT900-C-40161.
6. PROPOSED ACCESS ROAD SEE SHEET CCT900-L-11008
7. HIGH FLOW CONVEYANCE CHANNEL SEE SHEET CCT900-C-20161

## LEGEND

- WORK LIMITS
- OHWM (MAY 2019 SURVEY)
- EXISTING THALWEG (2016 LiDAR)
- EXISTING 100-YR FLOOD EXTENT (PROJECT MODEL)
- PROPOSED 2-YR FLOOD EXTENT (PROJECT MODEL)
- PROPOSED 100-YR FLOOD EXTENT (PROJECT MODEL)
- PROPOSED LARGE WOODY MATERIAL

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

0 10 20 30
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION AT SPUR LOCATION

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10167
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\sherryae\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\aaron.sherry@jacobs.com\d0406435\1123626-CCT900-C-10167.dwg | Layout: CCT900- C-10167
PLOTTED: Sep 17, 2020-09:57:42pm By sherryae
XREFS: J16144-C3D 2017.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123624Alignments.dwg; Stream Restoration.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SPUR STREAM RESTORATION

## KEY NOTES

1. PROPOSED TRIBUTARY #1 REALIGNMENT
2. PROPOSED SEWER SEE SHEET CCT900-C-10071
3. PROPOSED RETAINING WALL SEE SHEET CCT900-S-20070
4. PROPOSED ACCESS ROAD SEE SHEET CCT900-L-11008
5. PROPOSED BRIDGE NOT SHOWN FOR CLARITY. SEE SHEET CCT900-C-40070 FOR ADDITIONAL INFORMATION
6. EXISTING 18 INCH CULVERT TO BE REMOVED

**LEGEND**

- EXISTING THALWEG
- WORK LIMITS
- OHWM — OHWM (MAY 2019 SURVEY)
- 100-YR — EXISTING 100-YR FLOOD EXTENT (PROJECT MODEL)
- 2 YR — PROPOSED 2-YR FLOOD EXTENT (PROJECT MODEL)
- 100-YR — PROPOSED 100-YR FLOOD EXTENT (PROJECT MODEL)
- PROPOSED LARGE WOODY MATERIAL
- EXISTING WETLAND
- PROPOSED SOIL LIFT

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

SCALE IN FEET: 0 5 10 15

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| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION AT TRIBUTARY #1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10168
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Dec 09, 2020-05:33:28pm By JV036010
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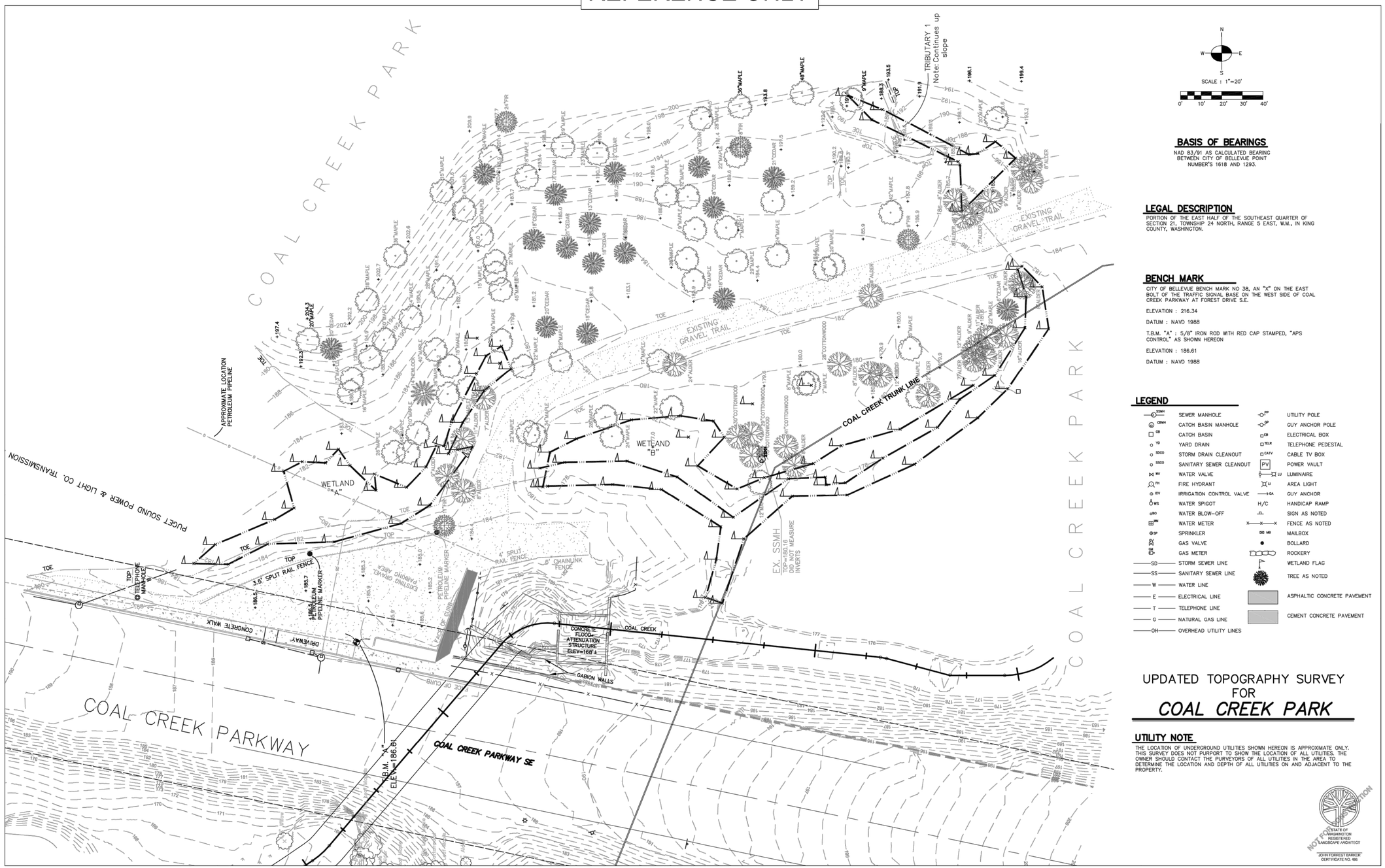
IMAGES:

REFERENCE ONLY




N
W E
S

SCALE : 1"=20'

0' 10' 20' 30' 40'

## BASIS OF BEARINGS

NAD 83/91 AS CALCULATED BEARING BETWEEN CITY OF BELLEVUE POINT NUMBER'S 1618 AND 1293.

## LEGAL DESCRIPTION

PORTION OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON.

## BENCH MARK

CITY OF BELLEVUE BENCH MARK NO 38, AN "X" ON THE EAST BOLT OF THE TRAFFIC SIGNAL BASE ON THE WEST SIDE OF COAL CREEK PARKWAY AT FOREST DRIVE S.E.

ELEVATION : 216.34

DATUM : NAVD 1988

T.B.M. "A" : 5/8" IRON ROD WITH RED CAP STAMPED, "APS CONTROL" AS SHOWN HEREON

ELEVATION : 186.61

DATUM : NAVD 1988

## LEGEND

| | | | |
|---|---|---|---|
| SDMH | SEWER MANHOLE | UP | UTILITY POLE |
| CBMH | CATCH BASIN MANHOLE | GP | GUY ANCHOR POLE |
| CB | CATCH BASIN | EB | ELECTRICAL BOX |
| YD | YARD DRAIN | TELB | TELEPHONE PEDESTAL |
| SDCO | STORM DRAIN CLEANOUT | CATV | CABLE TV BOX |
| SSCO | SANITARY SEWER CLEANOUT | PV | POWER VAULT |
| WV | WATER VALVE | LU | LUMINAIRE |
| FH | FIRE HYDRANT | LI | AREA LIGHT |
| ICV | IRRIGATION CONTROL VALVE | GA | GUY ANCHOR |
| WS | WATER SPIGOT | H/C | HANDICAP RAMP |
| BO | WATER BLOW-OFF | | SIGN AS NOTED |
| WM | WATER METER | | FENCE AS NOTED |
| SP | SPRINKLER | MB | MAILBOX |
| GV | GAS VALVE | | BOLLARD |
| GM | GAS METER | | ROCKERY |
| SD | STORM SEWER LINE | | WETLAND FLAG |
| SS | SANITARY SEWER LINE | | TREE AS NOTED |
| W | WATER LINE | | |
| E | ELECTRICAL LINE | | ASPHALTIC CONCRETE PAVEMENT |
| T | TELEPHONE LINE | | CEMENT CONCRETE PAVEMENT |
| G | NATURAL GAS LINE | | |
| OH | OVERHEAD UTILITY LINES | | |

# UPDATED TOPOGRAPHY SURVEY FOR *COAL CREEK PARK*

## UTILITY NOTE

THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON IS APPROXIMATE ONLY. THIS SURVEY DOES NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES. THE OWNER SHOULD CONTACT THE PURVEYORS OF ALL UTILITIES IN THE AREA TO DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES ON AND ADJACENT TO THE PROPERTY.

NOT FOR CONSTRUCTION

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT

JOHN FORREST BARKER CERTIFICATE NO. 486

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | PERTEET
AND ASSOCIATED FIRMS
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206.456.0515 | 800.615.9900

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| DESIGNED/DRAWN: | CHECKED: |
| PROJECT ENGINEER: | SCALE: NONE |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# COAL CREEK PARKWAY TRAILHEAD SURVEY

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-10180

SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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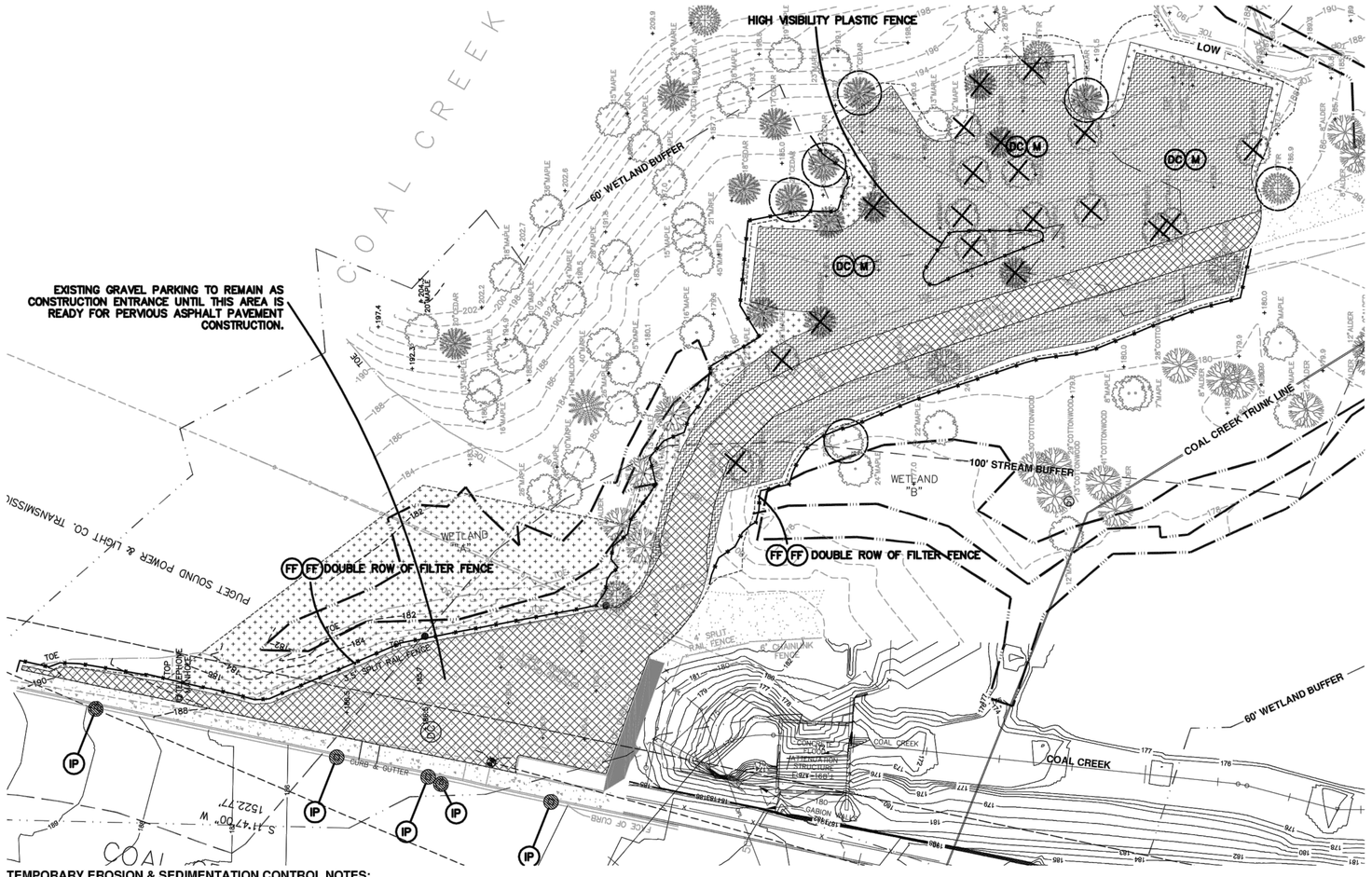
PLOTTED: Jul 29, 2020-10:06:22am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

REFERENCE ONLY




| CLEARING / TREE REMOVAL / SWPPP LEGEND | | | |
|---|---|---|---|
| SYM | ITEM | CODE | BMP |
| | Right of Way | | |
| | Limit of Work | | |
| | 60' Wetland Buffer | | |
| | 100' Stream Buffer | | |
| | Existing gravel trail to be removed (8,421 SF, 0.1933 Acres) | | |
| | Selectively Clear and Grub - Clear Invasives, Preserve and Relocate Native Shrubs. | CL | C104 |
| | Clear Invasives, Preserve Native Shrubs. | | |
| | Preserve Existing Tree | | |
| | Remove Existing Tree | | |
| | Double Row Filter Fence | FF FF | C233 |
| | Dust Control | DC | C140 |
| | Mulching | M | C121 |

LEGAL DESCRIPTION
PORTION OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON.

0 10' 20' 40'
Scale: 1" =20'-0"
(24" x 36" sheet)

**TEMPORARY EROSION & SEDIMENTATION CONTROL NOTES:**

1. All clearing & grading construction must be in accordance with City of Bellevue (COB) Clearing & Grading Code, Clearing & Grading Development Standards, Land Use Code, Uniform Building Code, permit conditions, and all other applicable codes, ordinances, and standards. The design elements within these plans have been reviewed according to these requirements. Any variance from adopted erosion control standards is not allowed unless specifically approved by the City of Bellevue Development Services (DSD) prior to construction. It shall be the sole responsibility of the applicant and the professional civil engineer to correct any error, omission, or variation from the above requirements found in these plans.
All corrections shall be at no additional cost or liability to the COB.

2. Approval of this erosion/sedimentation control (ESC) plan does not constitute an approval of permanent road or drainage design (e.g. size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).

3. A copy of the approved plans and drawings must be on-site during construction. The applicant is responsible for obtaining any other required or related permits prior to beginning construction.

4. The implementation of these ESC plans and the construction, maintenance, replacement, and upgrading of these ESC facilities is the responsibility of the applicant/contractor until all construction is completed and approved and vegetation/landscaping is established.

5. The ESC facilities shown on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to insure that sediment and sediment laden water do not enter the drainage system, roadways, or violate applicable water standards.

6. The ESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment-laden water do not leave the site.

7. All locations of existing utilities have been established by field survey or obtained from available records and should, therefore, be considered only approximate and not necessarily complete. It is the sole responsibility of the contractor to independently verify the accuracy of all utility locations and to discover and avoid any other utilities not shown which may be affected by the implementation of this plan.

8. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the applicant/contractor for the duration of construction.

10. At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.

11. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project.

12. The contractor must maintain a sweeper on site during earthwork and immediately remove soil that has been tracked onto paved areas as result of construction.

13. The ESC facilities shall be inspected daily by the applicant/contractor and maintained as necessary to ensure their continued functioning.

14. Any excavated material removed from the construction site and deposited on property within the City limits must be done in compliance with a valid clearing & grading permit. Locations for the mobilization area and stockpiled material must be approved by the Clearing and Grading Inspector at least 24 hours in advance of any stockpiling.

15. The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within the 48 hours following a major storm event.

16. Final site grading must direct drainage away from all building structures at a minimum 5% slope, per the International Residential Code (IRC) R401.3.

NOT FOR CONSTRUCTION
STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT JOHN FURGIST BARKER CERTIFICATE NO. 486

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| PROJECT ENGINEER: | SCALE: NONE |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# COAL CREEK PARKWAY TRAILHEAD SITE PREPARATION AND TESC PLAN

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10181
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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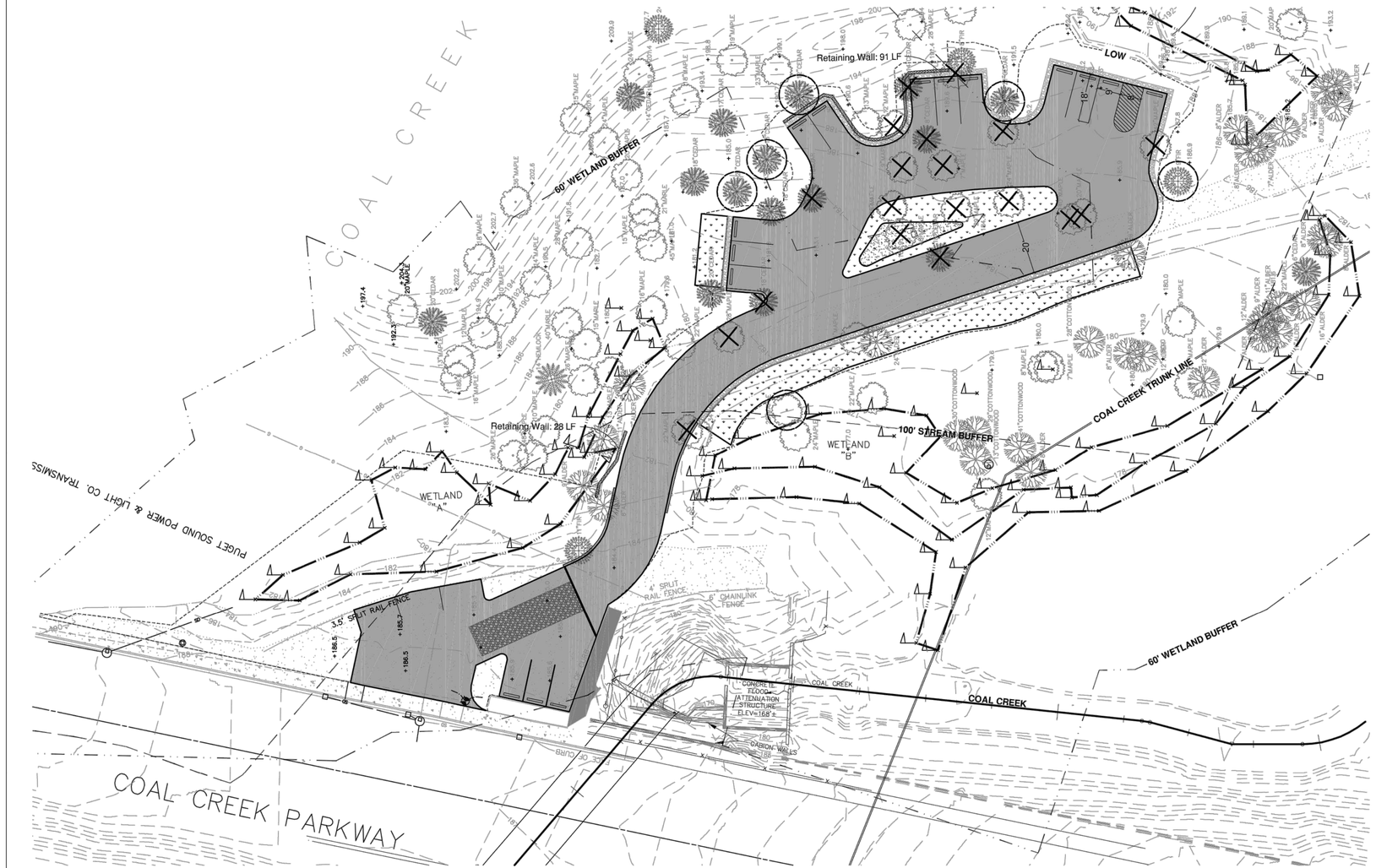
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

REFERENCE ONLY

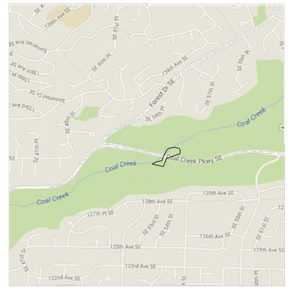



0 10' 20' 40'

Scale: 1" =20'-0"
(24" x 36" sheet)

LEGEND

- Limit of Work LOW (Area of Disturbance)
- 60' Wetland Buffer
- 100' Stream Buffer
- CAVFS
- Rain Garden
- Asphalt Surfacing
- Pervious Pavement
- Retaining Wall
- Gravel
- Remove Tree
- Protect Tree




PROJECT VICINITY MAP

Note: See Sheet C1 SITE DEVELOPMENT PLAN for proposed grading.

**NARRATIVE SUMMARY**

COAL CREEK PARKWAY TRAILHEAD PROJECT PROPOSES THE ADDITION OF A PARKING LOT WITH 18 PARKING STALLS. THE SHAPE OF THE PARKING LOT RESPONDS TO EXISTING WETLANDS ON SITE, AND STORM WATER TREATMENT METHODS WHICH REQUIRE SPACE ADJACENT TO PAVEMENT. 6,143 SF OF NEW/REPLACED IMPERVIOUS IS PROPOSED WITHIN THE WETLAND BUFFER. 4,972 SF OF NEW/REPLACED IMPERVIOUS FALLS WITHIN BOTH WETLAND AND STREAM BUFFERS.

**LEGAL DESCRIPTION**

PORTION OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON.

**TOTAL IMPERVIOUS AREA: 15,377 SF**
**IMPERV. AREA WTN. WETLAND BUFFER: 6,143 SF**
**IMPERV. AREA WTN. WETLAND AND STREAM BUFFER: 4,972 SF**
**SITE AREA: 5,437,159 SF, 124.82 Acres**
**LAND USE ZONE: R1**
**CUT CUBIC YARDS: 495 CY**
**EXPORT CUBIC YARDS: 125 CY**
**FILL CUBIC YARDS: 250 CY**
**PARKING STALLS: 18 Stalls total**
**ADA STALLS: 1 Stall**
**MITIGATION PLANTING AREA: 15,523 SF**

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT JOHN FORREST BARKER CERTIFICATE NO. 486

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| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# COAL CREEK PARKWAY TRAILHEAD SITE PLAN B

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10182
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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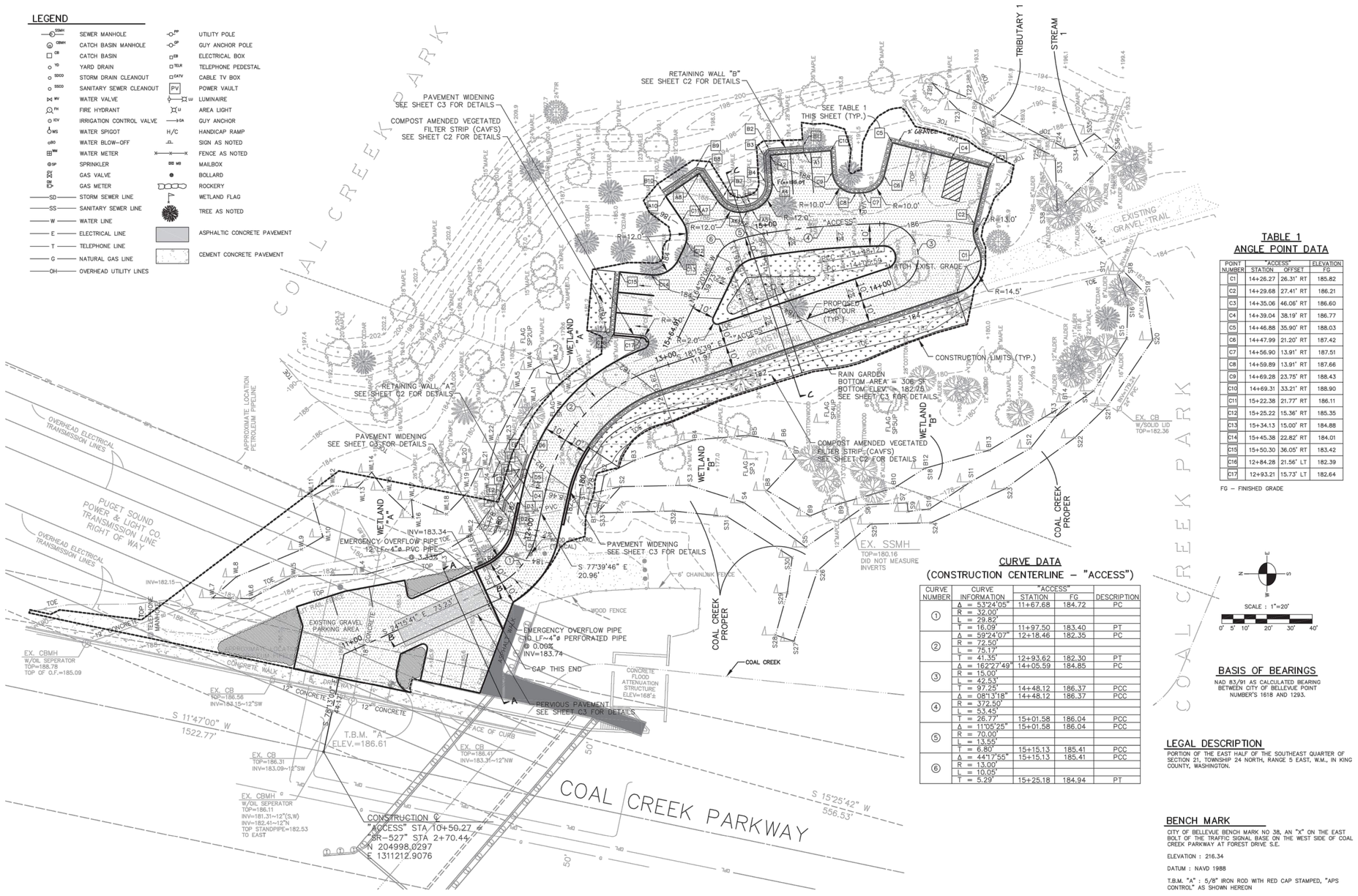
PLOTTED: Jul 29, 2020-10:07:27am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

REFERENCE ONLY

IN SE1/4 AND NE1/4 OF SECTION 21, T.24N., R.4E., W.M.

## LEGEND

| | | | |
|---|---|---|---|
| SDMH | SEWER MANHOLE | PP | UTILITY POLE |
| SDMH | CATCH BASIN MANHOLE | GP | GUY ANCHOR POLE |
| CB | CATCH BASIN | EB | ELECTRICAL BOX |
| YD | YARD DRAIN | TELE | TELEPHONE PEDESTAL |
| SDCO | STORM DRAIN CLEANOUT | CATV | CABLE TV BOX |
| SSCO | SANITARY SEWER CLEANOUT | PV | POWER VAULT |
| WV | WATER VALVE | LU | LUMINAIRE |
| FH | FIRE HYDRANT | LI | AREA LIGHT |
| ICV | IRRIGATION CONTROL VALVE | GA | GUY ANCHOR |
| WS | WATER SPIGOT | H/C | HANDICAP RAMP |
| BO | WATER BLOW-OFF | SN | SIGN AS NOTED |
| WM | WATER METER | | FENCE AS NOTED |
| SP | SPRINKLER | MB | MAILBOX |
| GV | GAS VALVE | | BOLLARD |
| GM | GAS METER | | ROCKERY |
| SD | STORM SEWER LINE | | WETLAND FLAG |
| SS | SANITARY SEWER LINE | | TREE AS NOTED |
| W | WATER LINE | | ASPHALTIC CONCRETE PAVEMENT |
| E | ELECTRICAL LINE | | CEMENT CONCRETE PAVEMENT |
| T | TELEPHONE LINE | | |
| G | NATURAL GAS LINE | | |
| OH | OVERHEAD UTILITY LINES | | |




## TABLE 1
## ANGLE POINT DATA

| POINT NUMBER | "ACCESS" STATION | "ACCESS" OFFSET | ELEVATION FG |
|---|---|---|---|
| C1 | 14+26.27 | 26.31' RT | 185.82 |
| C2 | 14+29.68 | 27.41' RT | 186.21 |
| C3 | 14+35.06 | 46.06' RT | 186.60 |
| C4 | 14+39.04 | 38.19' RT | 186.77 |
| C5 | 14+46.88 | 35.90' RT | 188.03 |
| C6 | 14+47.99 | 21.20' RT | 187.42 |
| C7 | 14+56.90 | 13.91' RT | 187.51 |
| C8 | 14+59.89 | 13.91' RT | 187.66 |
| C9 | 14+69.28 | 23.75' RT | 188.43 |
| C10 | 14+69.31 | 33.21' RT | 188.90 |
| C11 | 15+22.38 | 21.77' RT | 186.11 |
| C12 | 15+25.22 | 15.36' RT | 185.35 |
| C13 | 15+34.13 | 15.00' RT | 184.88 |
| C14 | 15+45.38 | 22.82' RT | 184.01 |
| C15 | 15+50.30 | 36.05' RT | 183.42 |
| C16 | 12+84.28 | 21.56' LT | 182.39 |
| C17 | 12+93.21 | 15.73' LT | 182.64 |

FG = FINISHED GRADE

## CURVE DATA
## (CONSTRUCTION CENTERLINE – "ACCESS")

| CURVE NUMBER | CURVE INFORMATION | "ACCESS" STATION | FG | DESCRIPTION |
|---|---|---|---|---|
| ① | Δ = 53°24'05" | 11+67.68 | 184.72 | PC |
| | R = 32.00' | | | |
| | L = 29.82' | | | |
| | T = 16.09' | 11+97.50 | 183.40 | PT |
| ② | Δ = 59°24'07" | 12+18.46 | 182.35 | PC |
| | R = 72.50' | | | |
| | L = 75.17' | | | |
| | T = 41.35' | 12+93.62 | 182.30 | PT |
| ③ | Δ = 162°27'49" | 14+05.59 | 184.85 | PC |
| | R = 15.00' | | | |
| | L = 42.53' | | | |
| | T = 97.25' | 14+48.12 | 186.37 | PCC |
| ④ | Δ = 081°31'18" | 14+48.12 | 186.37 | PCC |
| | R = 372.50' | | | |
| | L = 53.45' | | | |
| | T = 26.77' | 15+01.58 | 186.04 | PCC |
| ⑤ | Δ = 11°05'25" | 15+01.58 | 186.04 | PCC |
| | R = 70.00' | | | |
| | L = 13.55' | | | |
| | T = 6.80' | 15+15.13 | 185.41 | PCC |
| ⑥ | Δ = 44°17'55" | 15+15.13 | 185.41 | PCC |
| | R = 13.00' | | | |
| | L = 10.05' | | | |
| | T = 5.29' | 15+25.18 | 184.94 | PT |

## BASIS OF BEARINGS

NAD 83/91 AS CALCULATED BEARING BETWEEN CITY OF BELLEVUE POINT NUMBER'S 1618 AND 1293.

## LEGAL DESCRIPTION

PORTION OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON.

## BENCH MARK

CITY OF BELLEVUE BENCH MARK NO 38, AN "X" ON THE EAST BOLT OF THE TRAFFIC SIGNAL BASE ON THE WEST SIDE OF COAL CREEK PARKWAY AT FOREST DRIVE S.E.

ELEVATION : 216.34

DATUM : NAVD 1988

T.B.M. "A" : 5/8" IRON ROD WITH RED CAP STAMPED, "APS CONTROL" AS SHOWN HEREON

ELEVATION : 186.61

DATUM : NAVD 1988

## UTILITY NOTE

THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON IS APPROXIMATE ONLY. THIS SURVEY DOES NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES. THE OWNER SHOULD CONTACT THE PURVEYORS OF ALL UTILITIES IN THE AREA TO DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES ON AND ADJACENT TO THE PROPERTY.

Call 2 Working Days Before You Dig
1-800-424-5555
Utilities Underground Location Center
(ID,MT,ND,OR,WA)

UDEA #
GRID#

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

PERTEET
505 FIFTH AVENUE S, SUITE 300
SEATTLE, WA 98104
206.436.0515 | 800.615.9900

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: | CHECKED: |
| PROJECT ENGINEER: | SCALE: NONE |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# COAL CREEK PARKWAY TRAILHEAD SITE DEVELOPMENT PLAN

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-10183

SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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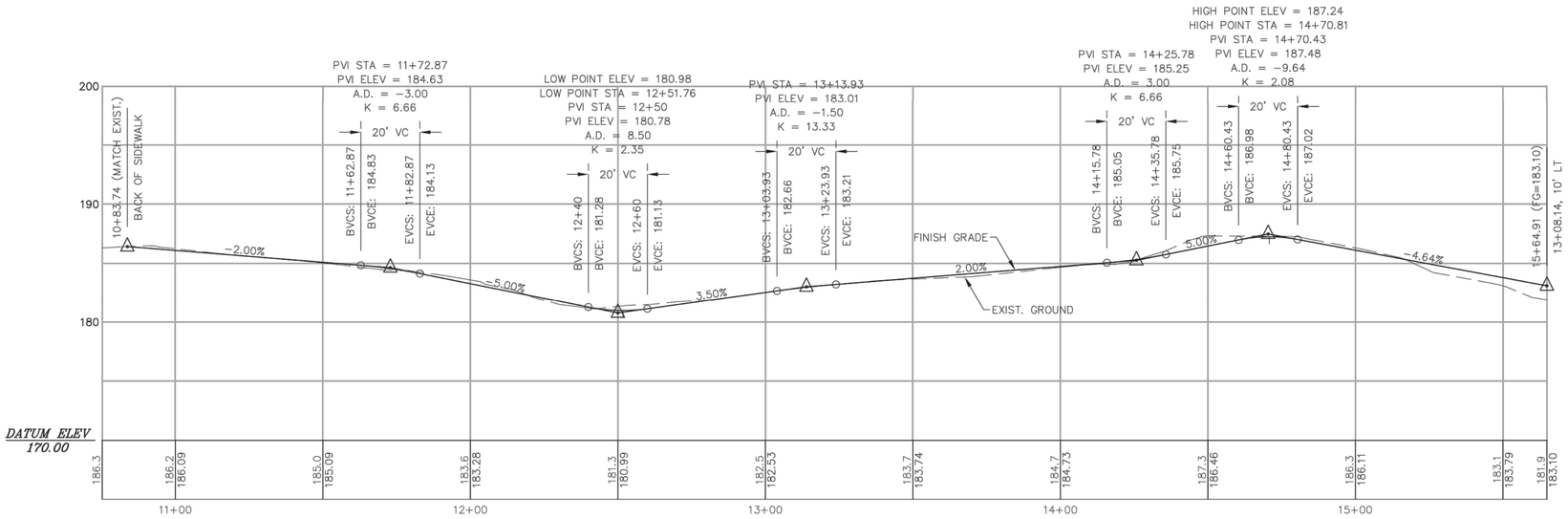
PLOTTED: Jul 29, 2020-10:07:54am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

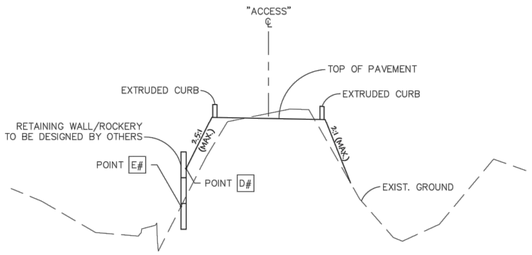
IN SE1/4 AND NE1/4 OF SECTION 21, T.24N., R.4E., W.M.

REFERENCE ONLY




ACCESS ROAD

SCALE: 1" = 20' HOR.
1" = 5' VERT.




SECTION – RETAINING WALL "A"

NO SCALE

RETAINING WALL "B"
ANGLE POINT DATA

| POINT NUMBER | "ACCESS" STATION | "ACCESS" OFFSET | ELEVATION FG | POINT NUMBER | "ACCESS" STATION | "ACCESS" OFFSET | ELEVATION EG | HEIGHT, (H) |
|---|---|---|---|---|---|---|---|---|
| D1 | 12+05.00 | 16.00' LT | 180.97 | E1 | 12+05.00 | 17.00' LT | 179.47 | 1.50' |
| D2 | 12+10.00 | 16.00' LT | 180.83 | E2 | 12+10.21 | 17.00' LT | 179.35 | 1.48' |
| D3 | 12+15.12 | 13.74' LT | 181.16 | E3 | 12+15.53 | 14.66' LT | 180.07 | 1.09' |
| D4 | 12+20.00 | 11.50' LT | 181.88 | E4 | 12+20.17 | 12.50' LT | 180.46 | 1.42' |
| D5 | 12+25.00 | 11.50' LT | 181.63 | E5 | 12+25.00 | 12.50' LT | 180.17 | 1.46' |
| D6 | 12+30.00 | 11.50' LT | 181.38 | E6 | 12+30.00 | 12.50' LT | 180.23 | 1.15' |

FG – FINISHED GRADE EG – EXISTING GRADE



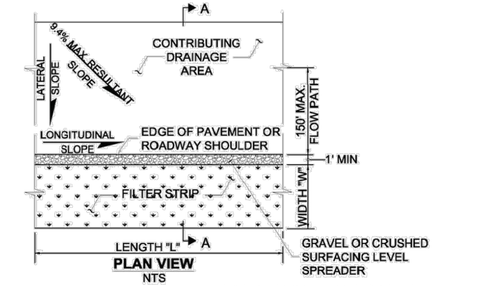

SECTION – RETAINING WALL "B"

NO SCALE

RETAINING WALL "B"
ANGLE POINT DATA

| POINT NUMBER | "ACCESS" STATION | "ACCESS" OFFSET | ELEVATION FG | POINT NUMBER | "ACCESS" STATION | "ACCESS" OFFSET | ELEVATION EG | HEIGHT, (H) |
|---|---|---|---|---|---|---|---|---|
| A1 | 14+80.39 | 33.36' RT | 188.69 | B1 | 14+80.32 | 36.36' RT | 191.19 | 2.50' |
| A2 | 14+94.07 | 34.03' RT | 188.09 | B2 | 14+94.27 | 37.05' RT | 191.48 | 3.39' |
| A2 | 14+94.07 | 34.03' RT | 188.09 | B3 | 14+96.79 | 34.64' RT | 191.06 | 2.97' |
| A4 | 14+94.78 | 22.16' RT | 187.46 | B4 | 14+97.60 | 22.37' RT | 189.75 | 2.29' |
| A5 | 15+04.54 | 54.75' RT | 186.46 | B5 | 15+04.71 | 14.24' RT | 187.62 | 1.16' |
| A6 | 15+06.45 | 11.12' RT | 186.37 | B6 | 15+06.55 | 14.12' RT | 187.51 | 1.14' |
| A7 | 15+15.37 | 19.53' RT | 186.38 | B7 | 15+13.34 | 20.29' RT | 188.49 | 2.11' |
| A8 | 15+16.28 | 33.78' RT | 187.05 | B8 | 15+15.49 | 34.75' RT | 192.26 | 5.21' |
| A8 | 15+16.28 | 33.78' RT | 187.05 | B9 | 15+16.30 | 36.81' RT | 192.61 | 5.56' |
| A10 | 15+21.28 | 34.41' RT | 186.84 | B10 | 15+21.10 | 37.34' RT | 188.67 | 1.83' |

FG – FINISHED GRADE EG – EXISTING GRADE




COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)

NO SCALE

Call 2 Working Days Before You Dig
1-800-424-5555
Utilities Underground Location Center
(ID,MT,ND,OR,WA)

UDEA #
GRID#

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell AND ASSOCIATED FIRMS
PERTEET
505 FIFTH AVENUE S, SUITE 300
SEATTLE, WA 98104
206.436.0515 | 800.615.9900

**PERMIT ISSUE**

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DECEMBER 2020

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: | CHECKED: |
| PROJECT ENGINEER: | SCALE: NONE |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# COAL CREEK PARKWAY TRAILHEAD ACCESS ROAD PROFILE AND DETAILS 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10184
SHT NO # / TOTAL # REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-10:08:33am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

REFERENCE ONLY

## Storm Drainage General Notes (January 2015):

(1) All work shall conform to the 2013 edition of the City of Bellevue Utilities Department Engineering Standards and the Developer Extension Agreement.

(2) Storm pipe shall be PVC conforming to ASTM D-3034 SDR 35 (4" – 15") or ASTM F-679 (18"–27"). Bedding and backfill shall be as shown in the Standard Details.

(3) The locations of all existing utilities shown hereon have been established by field survey or obtained from available records and should therefore be considered approximate only and not necessarily complete. It is the sole responsibility of the excavator to independently verify the accuracy of all utility locations shown, and to further discover and avoid any other utilities not shown hereon which may be affected by the implementation of this plan. Immediately notify the Engineer if a conflict exists.

(4) The footing drainage system and the roof downspout system shall not be interconnected and shall separately convey collected flows to the conveyance system or to an-site stormwater facilities.

(5) Provide and maintain temporary sedimentation collection facilities to ensure that sediment or other hazardous materials do not enter the storm drainage system in accordance with the sites approved CSWPPP. For all construction during the rainy season, downhill basins and inlets must be protected with catch basin inserts. Simply placing filter fabric under the grate is not acceptable.

6) Prior to final inspection and acceptance of storm drainage work, pipes and storm drain structures shall be cleaned and flushed. Any obstructions to flow within the storm drain system, (such as rubble, mortar and wedged debris), shall be removed at the nearest structure. Wash water of any sort shall not be discharged to the storm drain system or surface waters.

(7) Ends of each storm drain stub at the property line shall be capped and located with an 8' long 2" x 4" board, embedded to the stub cap and extending at least 3 feet above grade, and marked permanently "STORM". A copper 12 ga. locate wire firmly attached. The stub depth shall be indicated on the marker.

(8) All grates in roadways shall be ductile iron, bolt-locking, vaned grates per the Standard Details. Structures in traffic lanes outside of the curbline which do not collect runoff shall be fitted with round, bolt-locking solid covers. Off-street structures which do not collect runoff shall be fitted with bolt-locking solid covers.

(9) Vegetation/landscaping in the detention pond, bioretention facility, vegetated roof and/or drainage swale(s) are an integral part of the runoff treatment system for the project. Such drainage facilities will not be accepted until plantings are established.

(10) All new manholes shall have a minimum inside diameter of 48" and shall conform to the Standard Details. All new catch basins shall conform to the Standard Details.

(11) Side storm stations are referenced from nearest downstream manhole/ catch basin.

(12) All testing and connections to existing mains shall be done in the presence of a representative of the City of Bellevue Utilities Department.

(13) All trenches shall be compacted, and Hot Mix Asphalt in place in paved areas, prior to testing storm lines for acceptance.

(14) All public storm drains shall be air tested and have a video inspection performed prior to acceptance (see #23 below). Storm main constructed with flexible pipe shall be deflection tested with a mandrel prior to acceptance.

(15) Storm stubs shall be tested for acceptance at the same time the main storm is tested.

(16) All manholes/ catch basins in unpaved areas shall include a concrete seal around adjustment rings per Standard Details.

(17) All storm main extensions within the public right-of-way or in easements must be "staked" by a surveyor licensed in Washington State for "line and grade" and cut sheets provided to the Engineer, prior to starting construction.

(18) The Contractor shall use a vacuum street sweeper to remove dust and debris from pavement areas as directed by the Engineer. Flushing of streets shall not be permitted without prior City approval.

(19) Storm drainage mainlines, stubs and fittings shall be constructed using the same pipe material and manufacturer. Connections between stubs and the mainline will be made with a tee fitting. Tee fitting shall be from same manufacturer as pipe. Cut-in connections are only allowed when connecting a new stub to an existing mainline.

(20) Manholes, catch basins and vaults are considered to be permit-required confined spaces. Entry into these spaces shall be in accordance with Chapter 296-809 WAC.

(21) Placement of surface appurtenances (MH lids, valve lids, etc) in tire tracks of traffic lanes shall be avoided whenever possible.

(22) Call 1-800-424-5555, or 8-1-1, 72 hours before construction for utility locates.

(23) The Contractor shall perform a video inspection and provide a DVD of the storm pipe interior for the City's review. The video shall provide a minimum of 14 lines per millimeter resolution and cover the entire length of the applicable pipe. The camera shall be moved through the pipe at a uniform rate ( ≤ 30 ft/min), stopping when necessary to ensure proper documentation of the pipe condition. The video shall be taken after installation and cleaning to insure that no defects exist. The project will not be accepted until all defects have been repaired.

(24) Clearly label public and private systems on the plans. Private systems shall be marked "private" and shall be maintained by the property owner(s).

(25) All concrete structures (vaults, catch basins, manholes, oil/water separators, etc.) shall be vacuum tested.

(26) Manholes, catch basins and inlets in easements shall be constructed to provide a stable, level grade for a minimum radius of 2.5 feet around the center of the access opening to accommodate confined space entry equipment.

(27) Tops of manholes/ catch basins within public right-of-way shall not be adjusted to final grade until after paving.

(28) Contractor shall adjust all manhole/ catch basin rims to flush with final finished grades, unless otherwise shown.

(29) Contractor shall install, at all connections to existing downstream manholes/catch basins, screens or plugs to prevent foreign materials from entering existing storm drainage system. Screens or plugs shall remain in place throughout the duration of the construction and shall be removed along with collected debris at the time of final inspection and in the presence of a representative of the City of Bellevue Utilities Department.

(30) Surface restoration of existing asphalt pavement shall be as required by the right-ofway use permit.

(31) The Contractor shall maintain a minimum of five feet (5') horizontal separation between all water and storm drainage lines. Any conflict shall be reported to the Utility and the Developer's Engineer prior to construction.

(32) It shall be the Contractor's responsibility to ensure that no conflicts exist between storm drainage lines and proposed or existing utilities prior to construction.

(33) Before commencement of trenching, the Contractor shall provide filter fabric for all downhill storm drain inlets and catch basins, which will receive runoff from the project site. The contractor shall periodically inspect the condition of all filter fabric and replace as necessary.

(34) Minimum cover over storm drainage pipe shall be 2 feet, unless otherwise shown.

(35) Avoid crossing water or sewer mains at highly acute angles. The smallest angle measure between utilities should be 45 degrees.

(36) At points where existing thrust blocking is found, minimum clearance between concrete blocking and other buried utilities or structures shall be 5 feet.

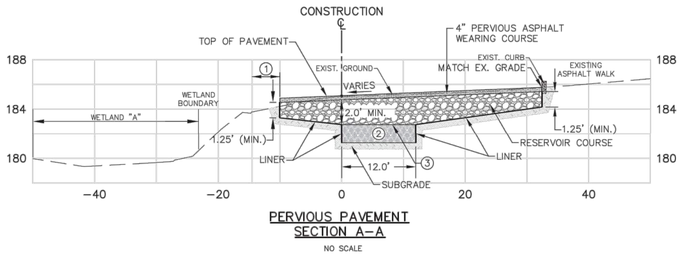
(37) When work is to occur in easements, the Contractor shall notify the easement grantor and Bellevue Utilities in writing a minimum of 48 hours in advance of beginning work (not including weekends or holidays). Failure to notify grantor and Bellevue Utilities will result in a Stop Work Order being posted until the matter is resolved to the satisfaction of Bellevue Utilities. A written release from the easement grantor shall be furnished to the Utilities Inspector prior to permit signoff.

(38) The Contractor shall restore the Right-of-Way and existing public storm drainage easement(s) after construction to a condition equal or better than condition prior to entry. The Contractor shall furnish a signed release from all affected property owners after restoration has been completed.

(39) Where a new utility line crosses below an existing AC main, the AC pipe shall be replaced with DI pipe to 3 feet past each side of the trench as shown on Standard Detail W-8. Alternatively, where directed by the Utility, the trench shall be backfilled with controlled density fill (CDF, aka flowable fill) from bottom of trench to bottom of AC main.

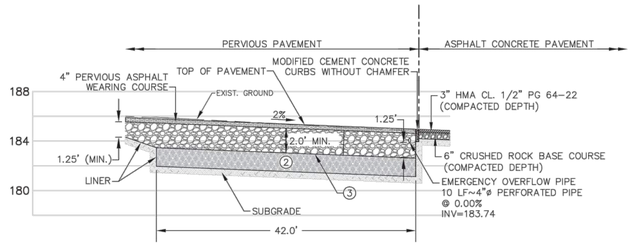
## Transportation Department Construction Notes

1. All construction shall be in accordance with the City of Bellevue Design Manual, applicable city codes, and the 2008 WSDOT Standard Specifications for Road, Bridge and Municipal Construction.
2. The design elements within these plans have been reviewed according to the latest addition of the City of Bellevue Design Manual. This approval is subject to field inspection; oversight or violation of City ordinances is not included in the this approval. Variances to theses standards are by approval of the Transportation Department Review Engineer and Inspector.
3. Approval of this road, grading, and/or drainage plan does not constitute an approval of any other construction (e.g., domestic water conveyance, sewer conveyance, gas, electrical, etc.)
4. It is the Contractor's responsibility to call for a pre-contraction conference at 425-452-6875 prior to any clearing, grading, or construction activity. This conference must be attended by the Transportation Department Inspector, and the developer (or the developer's construction representative).
5. A copy of these approved plans must be at the job site whenever construction is in progress.
6. It is the Contractors responsibility to obtain all necessary construction easements and Right-of-Way Use Permits before beginning off-site work. Work within the right of way fronting the site, whether improved or unimproved, requires a separate Right-of-Way Use Permit. Right-of-Way Use Permits are required for all curb cuts and roadway cuts.
7. In connection with the performance of work covered by this approval, the Contractor shall be responsible for providing adequate safeguards, safety devices, protective equipment, flaggers, and any other services or devices necessary to protect property and the life, health, and safety of the public. Traffic control plans must be submitted under the Right-of-Way Use Permit prior to work commencing in the right of way.
8. It is the Contractor's responsibility to notify the telephone, gas, power, and cable TV companies of proposed work prior to construction so that these utilities can prepare plans for extensions of their utilities.
9. Prior to the placement of asphalt paving, the developer must submit compaction test results (conducted by a licensed soils engineer) to the Transportation Department Inspector. Proof rolling of the roadway will be conducted with the Transportation Inspector prior to crushed rock placement.
10. The final top lift for the roadway may be placed only after April 1st and prior to October 1st.
11. The final life of asphalt pavement may be placed one year after the written acceptance of all plat infrastructures in the right of way or following the completion of 90% of the plat homes. All valve boxes, manholes, catch basins and monument cases which are in the asphalt portion of the roadway shall be adjusted to the final roadway grade for this portion of the project. These items will be adjusted to the final grade only after the final lift of asphalt is placed.
12. All work shall be performed per the recommendations of soils reports prepared for this project, unless otherwise directed in writing by the Transportation Department Review Engineer or Inspector.
13. Street sings are to be provided and installed by the developer as directed per a signing plan approved by the Transportation Department. Contact Scott Zydek at (425) 452-2741 at least 72 hours prior to installation for field input. All signs must be in good condition prior to final acceptance of the roadway.
14. The relocation of street signs must be coordinated with the Transportation Department inspector.
15. Puget Power will design and install the internal plat street lighting system, at the developer's cost. The design of this system must be approved by the City of Bellevue prior to installation. Poles must be installed in conjunction with roadway improvement work.
16. All City-owned utilities shall be raised to final grade within one week of the placement of final pavement lift.
17. Safety rail, guard rail and driveway aprons must be placed and constructed per the City of Bellevue Design Manual. Driveway aprons may be installed only after issuance of building permits. If curb and gutter is placed before building permits are issued, curb and gutter shall be continuous. A Right-of-Way Use Permit will be required to install driveway aprons abutting City right of way.
18. The Contractor is responsible for restriping the road surface after an overlay. This work must be coordinated with the Transportation Department inspector.
19. A concrete form inspection and/or string inspection must be called for prior to pouring concrete.
20. A sight distance inspection must be called for prior to project completion. This inspection will include driveways and intersections for vehicular sight distance, and sidewalk and other pedestrian facilities for pedestrian sight distance. Final sight distance must take into consideration the anticipated height of mature landscaping.
21. Construction worker parking, equipment storage, and material storage must be provided on site. Exceptions may be granted by the Transportation Department Director under certain conditions.



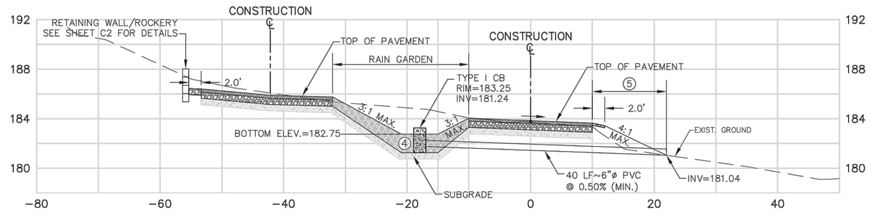

PERVIOUS PAVEMENT SECTION A-A

NO SCALE




PERVIOUS PAVEMENT SECTION B-B

NO SCALE



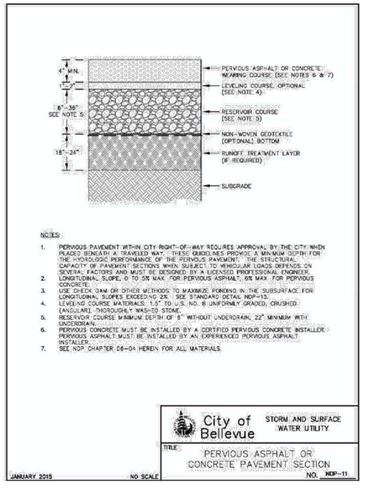

## SPECIAL NOTE:

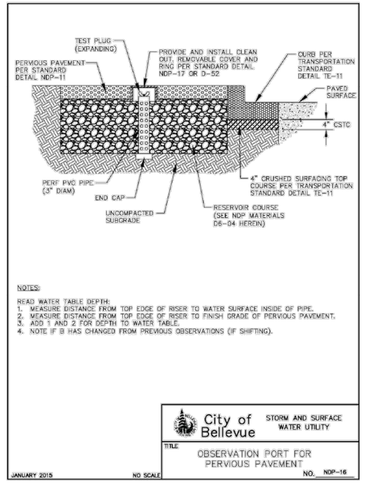
1. STORM PIPE MATERIAL SHALL CONSIST OF SOLID WALL PVC PIPE OR PROFILE WALL PVC PIPE. THESE MATERIALS SHALL CONFORM TO THE CITY'S STANDARD SPECIFICATIONS.

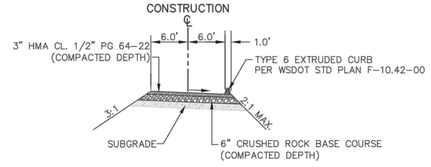
RAIN GARDEN SECTION C-C

NO SCALE

① PLANTING AREA. SEE LANDSCAPE PLAN FOR DETAILS
② RUNOFF TREATMENT LAYER (18")
③ NON-WOVEN GEOTEXTILE
④ BIORETENTION SOIL MIX (18")
⑤ COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)




PAVEMENT WIDENING

NO SCALE

Call 2 Working Days Before You Dig
1-800-424-5555
Utilities Underground Location Center
(ID,MT,ND,OR,WA)

UDEA #
GRID#

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS
PERTEET
505 FIFTH AVENUE S, SUITE 300
SEATTLE, WA 98104
206.436.0515 | 800.615.9900

**PERMIT ISSUE**

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DECEMBER 2020

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: | CHECKED: |
| PROJECT ENGINEER: | SCALE: NONE |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# COAL CREEK PARKWAY TRAILHEAD ACCESS ROAD PROFILE AND DETAILS 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10185
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-10:09:01am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

REFERENCE ONLY

**RESTORATION CONSTRUCTION PLAN:**

**PROPOSED SCHEDULE:**
Prior to any site work, a pre-construction meeting will be held with the general contractors, landscape contractors, and consultants to ensure that the work is constructed as designed, and that contractors have been informed of all environmental permit conditions. A wetland biologist may be available for on-site inspections and approval of all work during construction, as needed.

- Site preparation activities would begin in the summer following permit issuance.
- Planting would occur in the Fall or Spring of the following year.

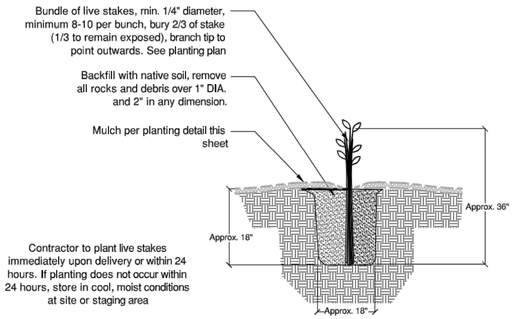
**Weed Control:**
Noxious weeds: Prior to installing new plant material, noxious weeds in the wetland and its buffer will be removed. The goal will be 100 percent removal in the planting areas. Remove all noxious weeds with appropriate methods as noted by the Washington State Noxious Weed Control Board and using City of Bellevue best management practices.

Reed canarygrass: Control strategies include pre-construction herbicide application and the rapid establishment of a dense cover of appropriate native wetland species. In planting areas, reed canarygrass will be controlled using a combination of mowing (using portable weed eaters) and applications of approved herbicide in accordance with the City of Bellevue's best management practices and the State's requirements for herbicidal applications near water. Reduce reed canarygrass cover usign the following sequence of control treatments:

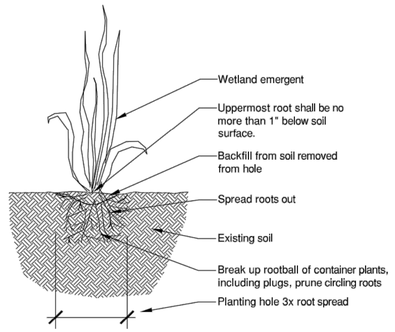
- Stake planting areas
- Mow/weed eat the designated planting areas.
- Allow re-sprout of reed canarygrass to 1 ft.
- Spray with approved herbicide.
- (Recommended- Allow re-sprout of reed canarygrass to 1 ft.)
- (Recommended- re-spray with approved herbicide)
- Plant no sooner than 30 days after herbicide application.

This sequence can be modified by the City to best meet site conditions at the time of construction.

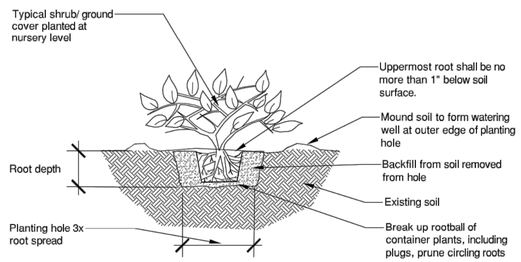
All other noxious weeds, such as Himalayan blackberry and English ivy and other noxious weeds on the King County, Washington, list of noxious weeds, will be controlled using herbicide or hand removal measures. In planting areas, these species should be completely removed prior to planting.




A - Live Stake Planting Detail
N.T.S.




B - Wetland Emergent Planting Detail
N.T.S.




C - Shurb Planting Detail
N.T.S.

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT JOHN FORREST BARKER CERTIFICATE NO. 486

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Brown AND Caldwell : PERTEET
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| DESIGNED/DRAWN: | CHECKED: |
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| PROJECT ENGINEER: | SCALE: NONE |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# COAL CREEK PARKWAY TRAILHEAD ACCESS ROAD PROFILE AND DETAILS 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10186
SHT NO / TOTAL: # / #
REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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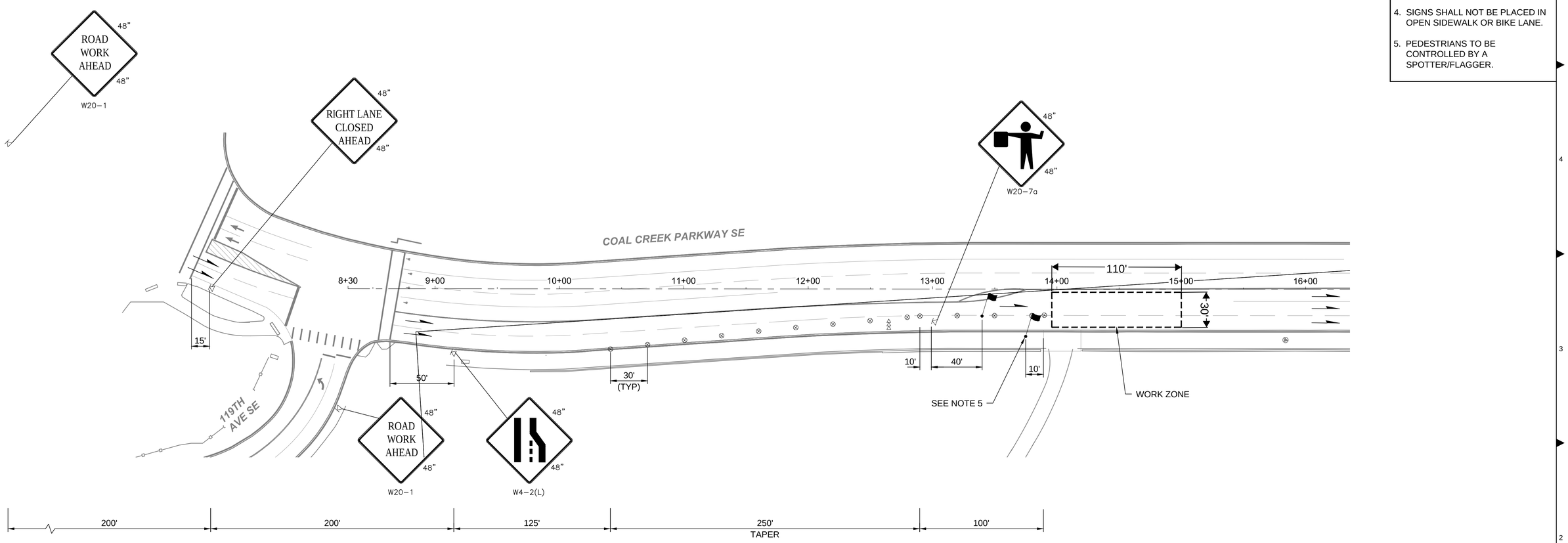
PLOTTED: Jul 29, 2020-10:09:40am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

PROJECT LOCATION:
NEAR ESI CONNECTION

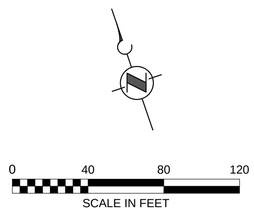
## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.
5. PEDESTRIANS TO BE CONTROLLED BY A SPOTTER/FLAGGER.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRAFFIC CONE OR PYLON
- SEQUENTIAL ARROW SIGN
- FLAGGER
- WORK AREA




| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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RICHARD HENRY HENDRIX — STATE OF WASHINGTON — 42986 — REGISTERED PROFESSIONAL ENGINEER

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| | |
|---|---|
| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# ESI ACCESS ROAD TRAFFIC CONTROL PLAN

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10201
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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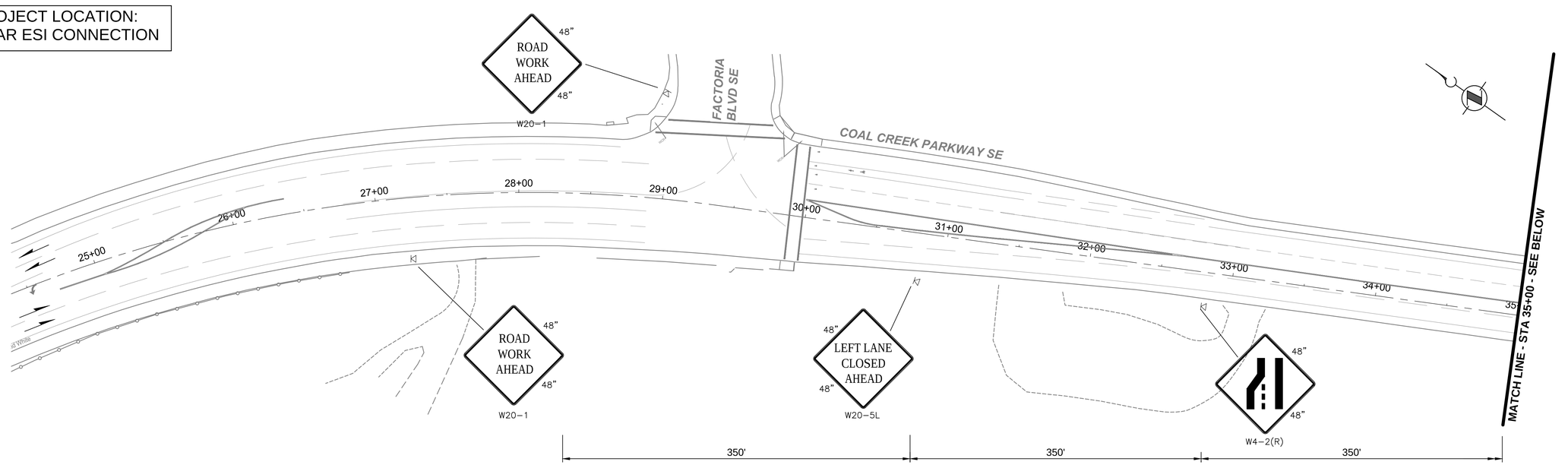
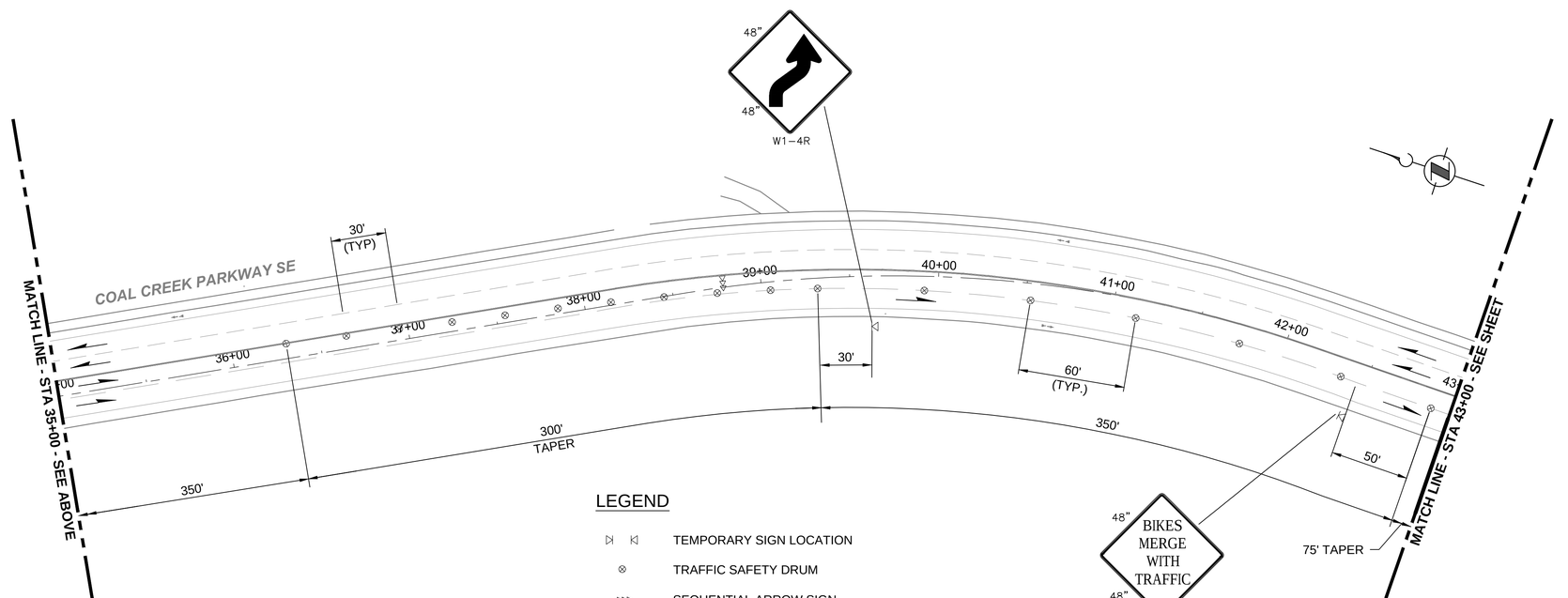
IMAGES:

PROJECT LOCATION:
NEAR ESI CONNECTION

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- WORK AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 1) 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10202
SHT NO # / TOTAL #
REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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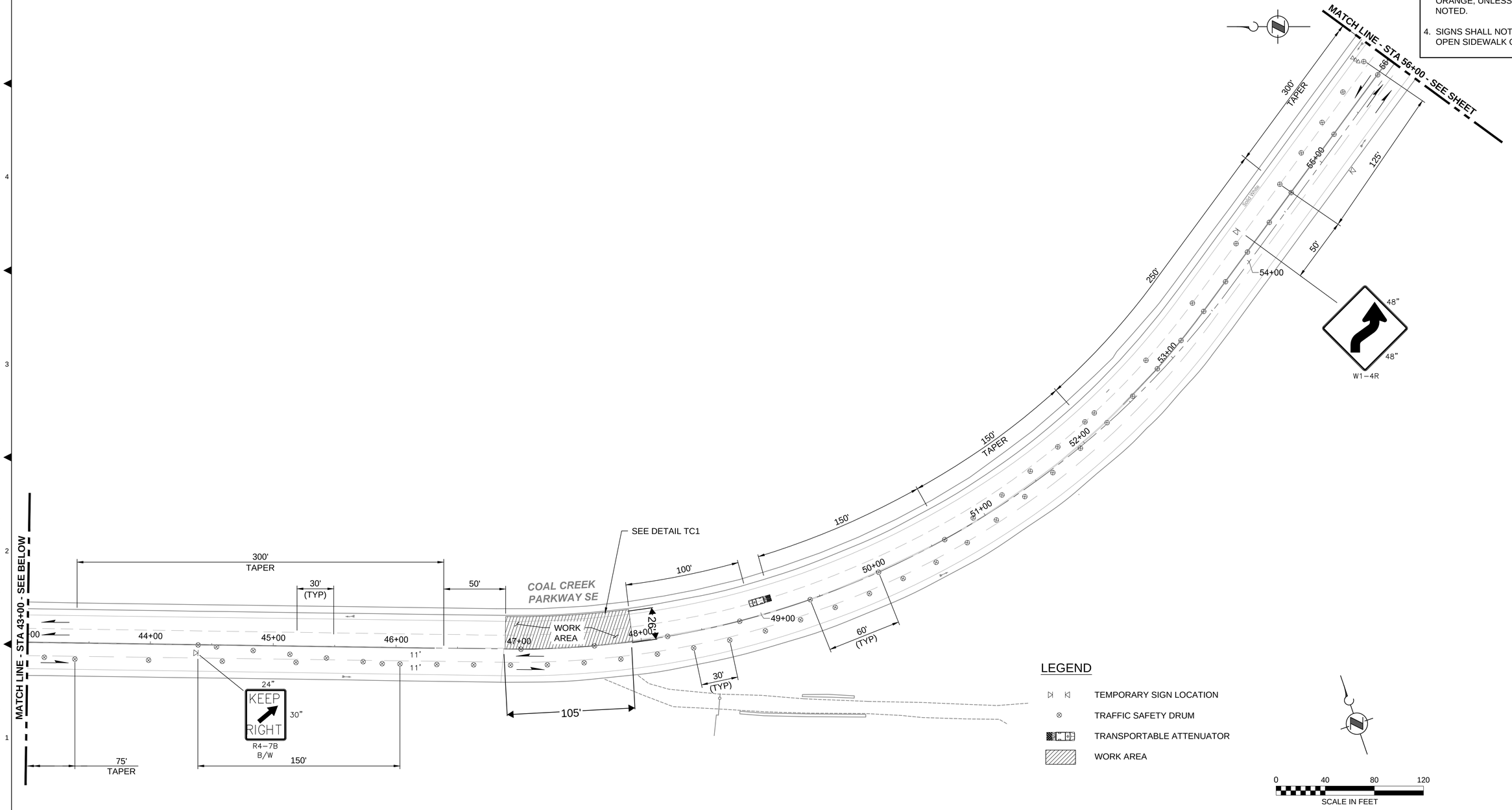
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATIONS AND
SPU CORRIDOR STAGING LOCATIONS

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRANSPORTABLE ATTENUATOR
- WORK AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 1) 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10203
SHT NO # / TOTAL # | REV NO: 0


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IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATION

## GENERAL NOTES

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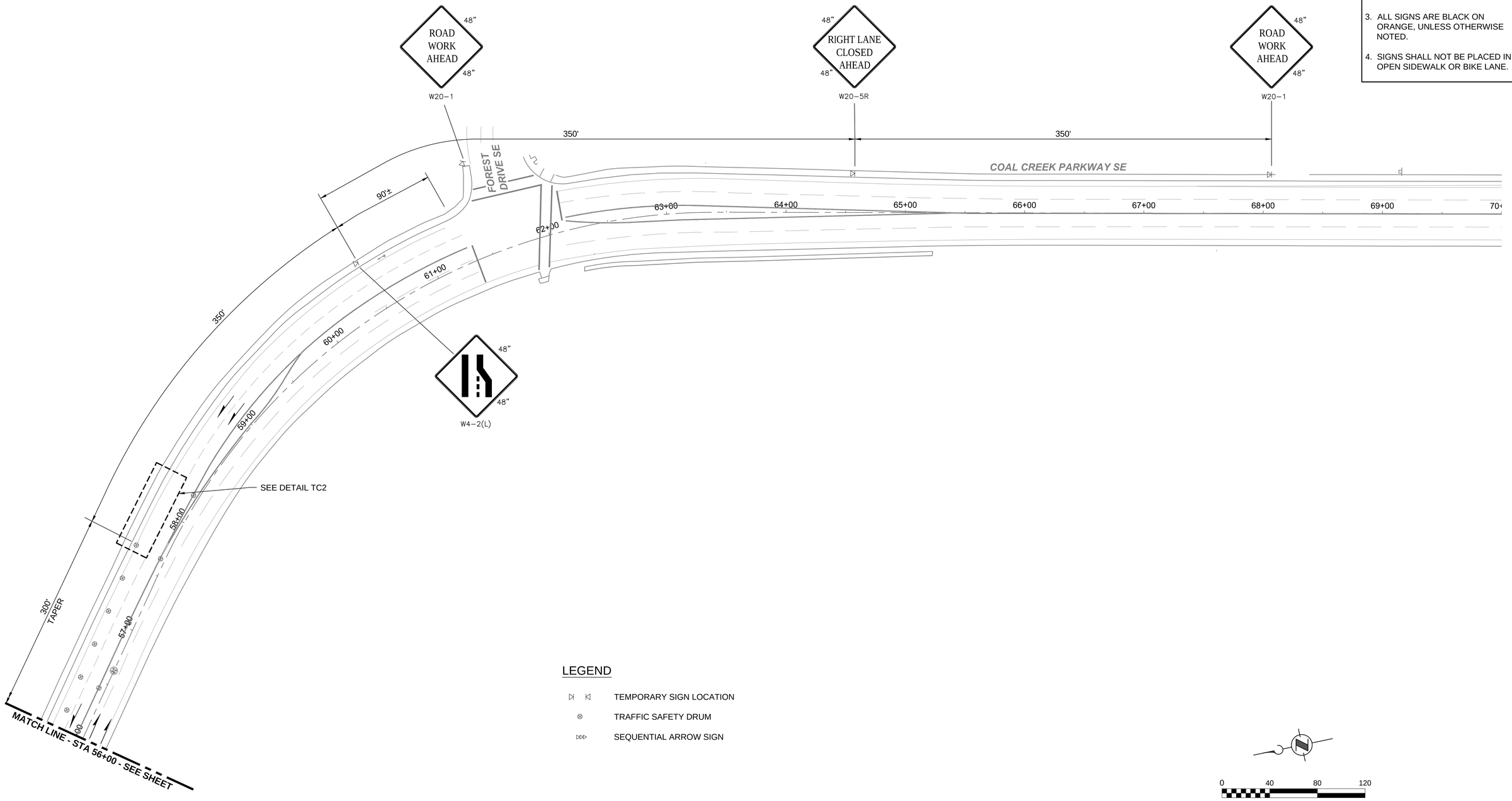


## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 1) 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10204
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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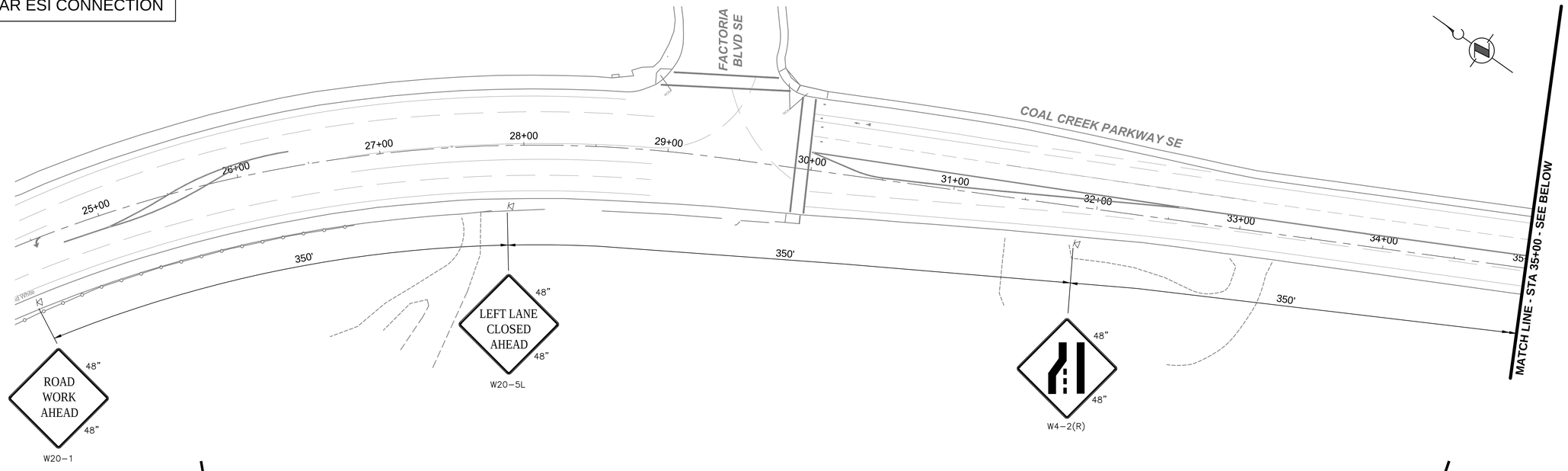
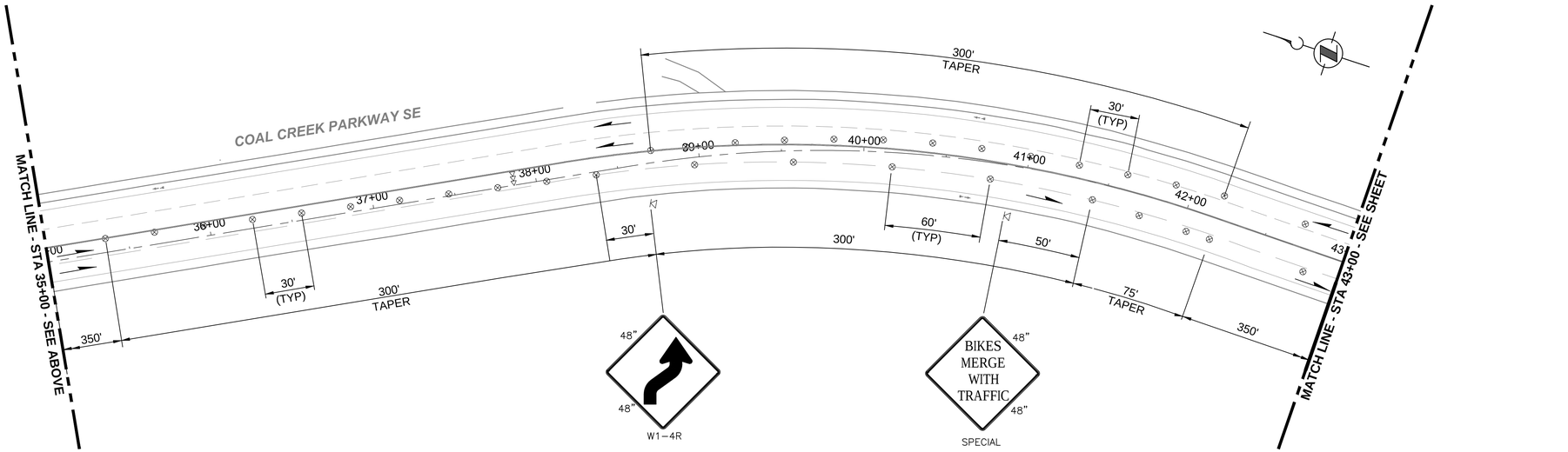
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR ESI CONNECTION




## GENERAL NOTES

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5. PEDESTRIANS TO BE CONTROLLED BY A SPOTTER/FLAGGER.

## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 2) 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10205
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATIONS AND
SPU CORRIDOR STAGING LOCATIONS

## GENERAL NOTES

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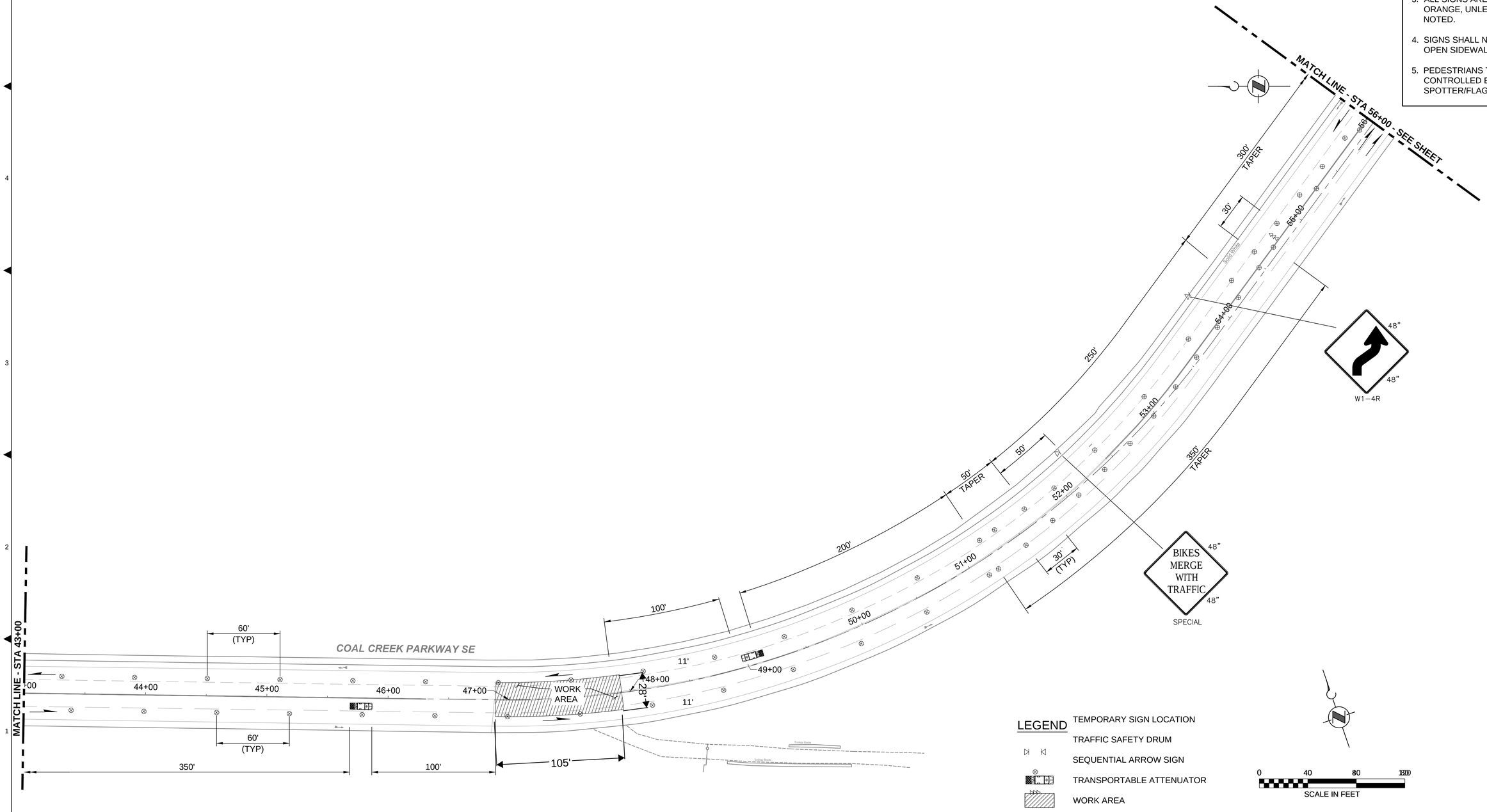


LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- WORK AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 2) 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10206
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-01:47:22pm By: kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATION

## GENERAL NOTES

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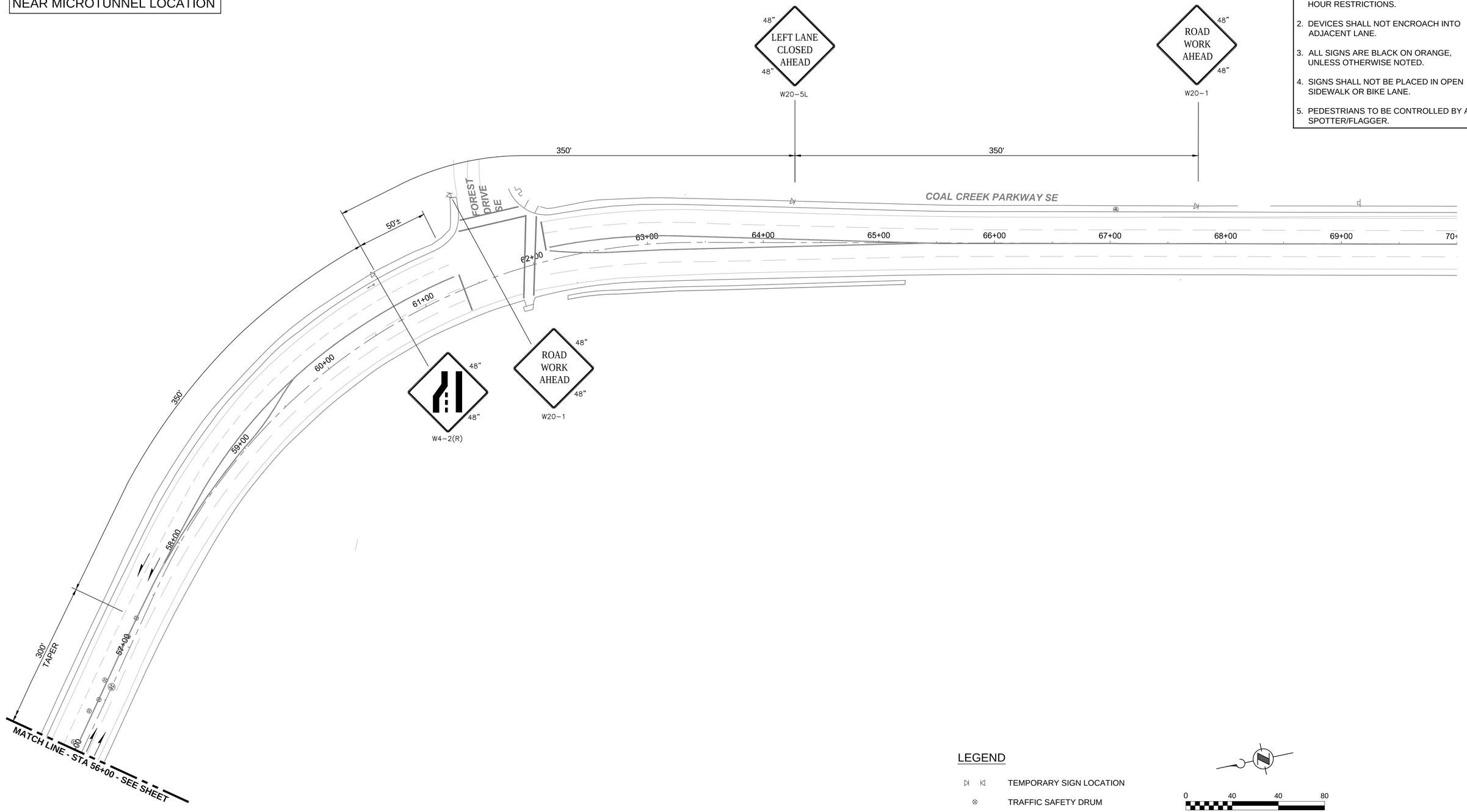


LEGEND

TEMPORARY SIGN LOCATION

TRAFFIC SAFETY DRUM

0 40 40 80
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 2) 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10207
SHT NO # / TOTAL # REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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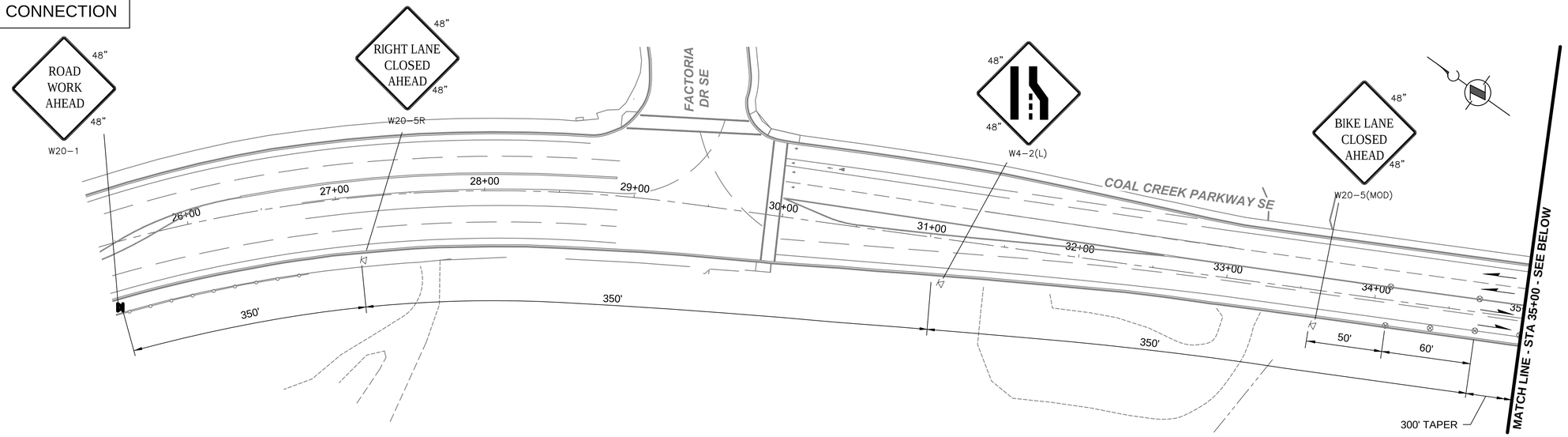
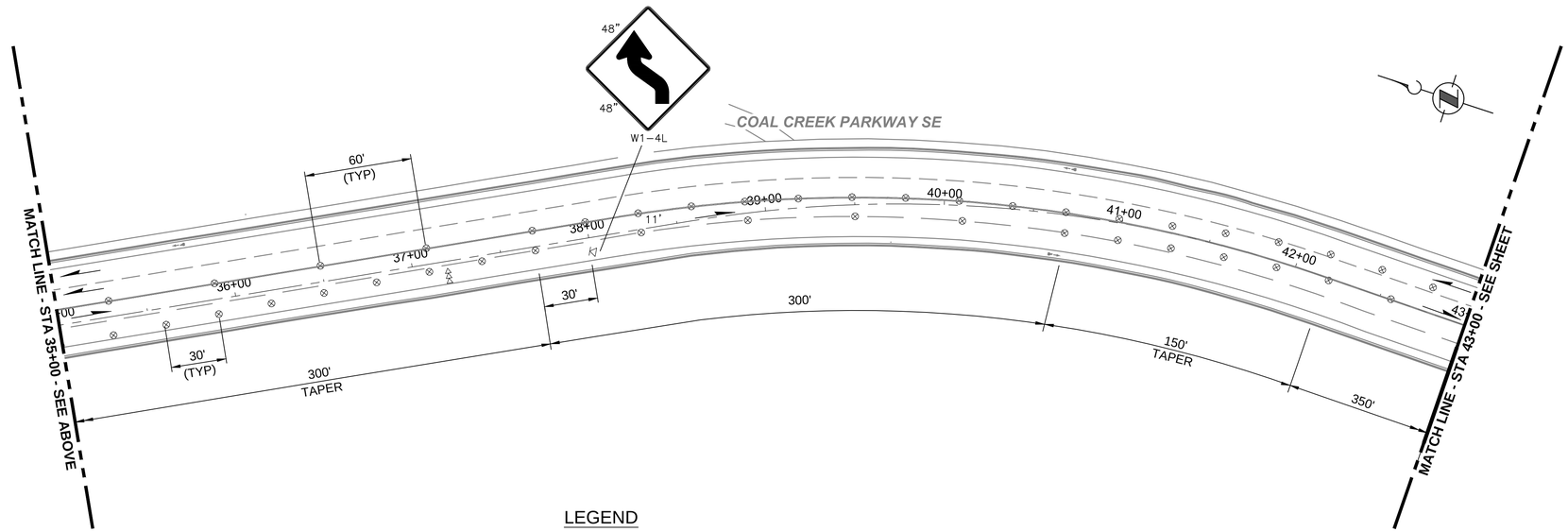
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR ESI CONNECTION




## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.

## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC CONE OR PYLON
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
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|---|---|
| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 3) 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10208
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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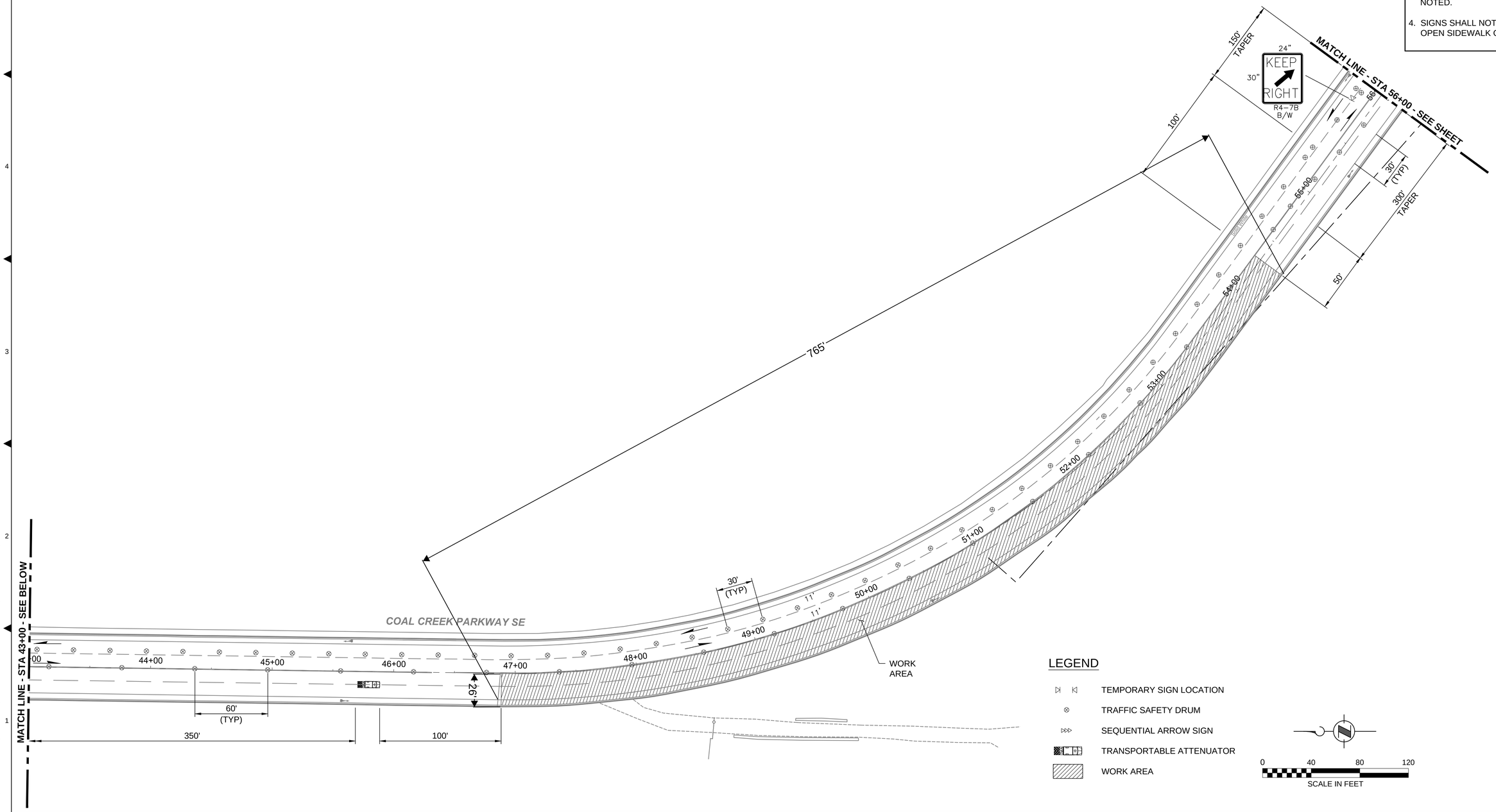
PLOTTED: Jul 29, 2020-01:52:00pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624Alignments.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATIONS AND
SPU CORRIDOR STAGING LOCATIONS

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- WORK AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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MICHAEL R. RICHARD HEAD
STATE OF WASHINGTON
42986
REGISTERED
PROFESSIONAL ENGINEER
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| | |
|---|---|
| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 3) 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10209
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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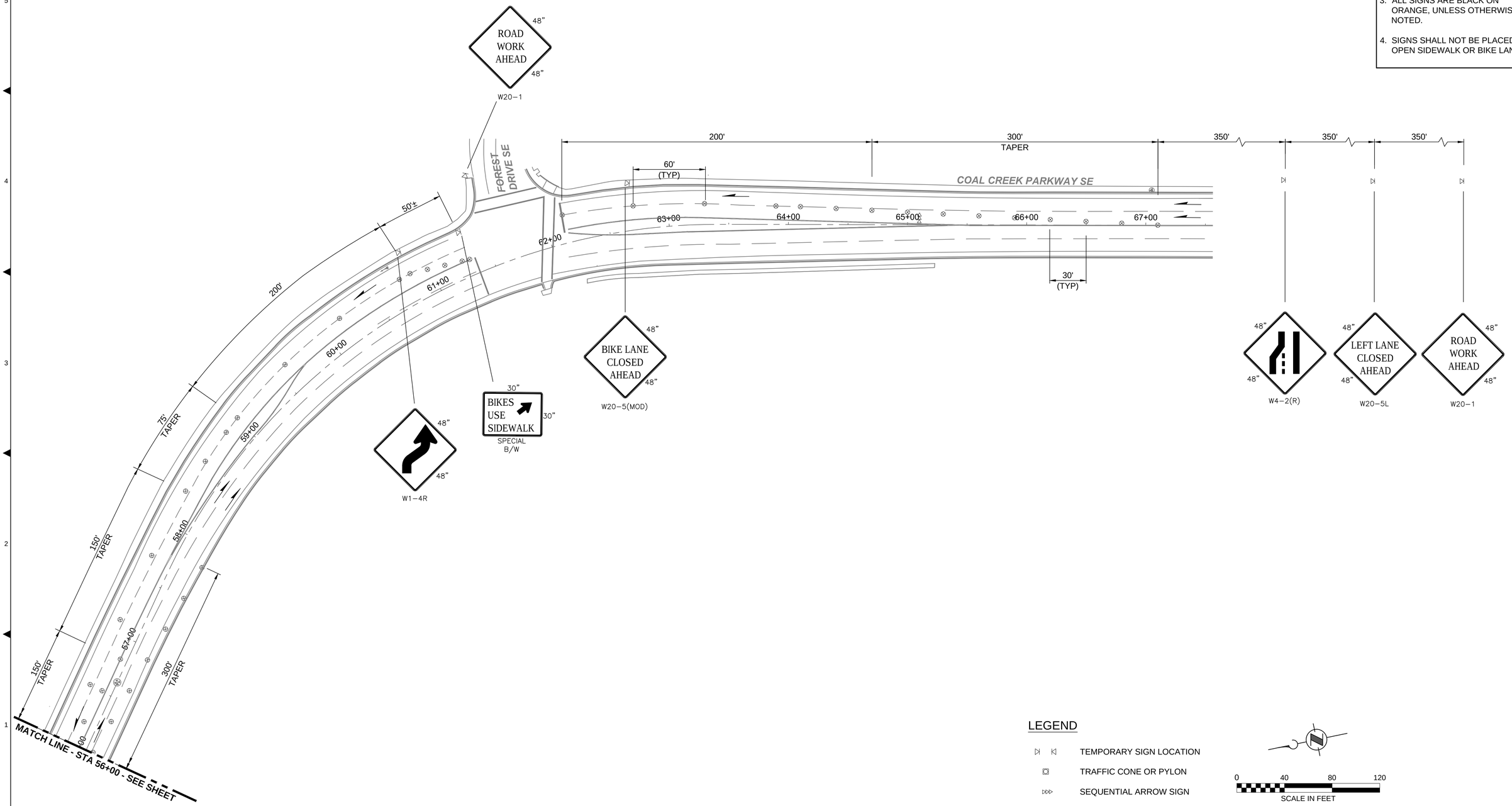
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATION

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC CONE OR PYLON
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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|---|---|
| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 3) 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10210
SHT NO / TOTAL: # / #
REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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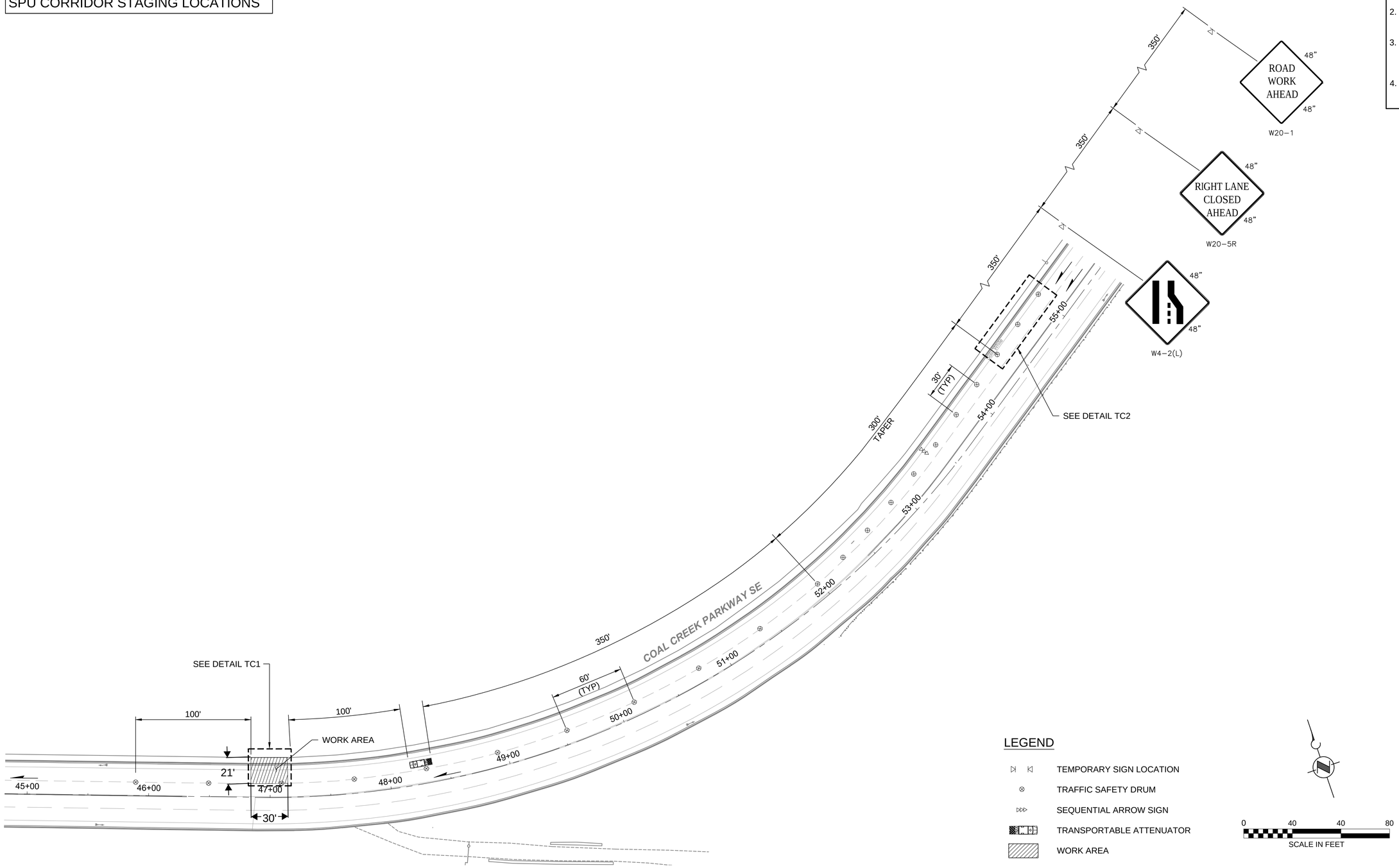
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATIONS AND
SPU CORRIDOR STAGING LOCATIONS

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- WORK AREA

0 40 40 80
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# BELLEVUE LATERALS TRAFFIC CONTROL PLAN (PHASE 4)

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10211
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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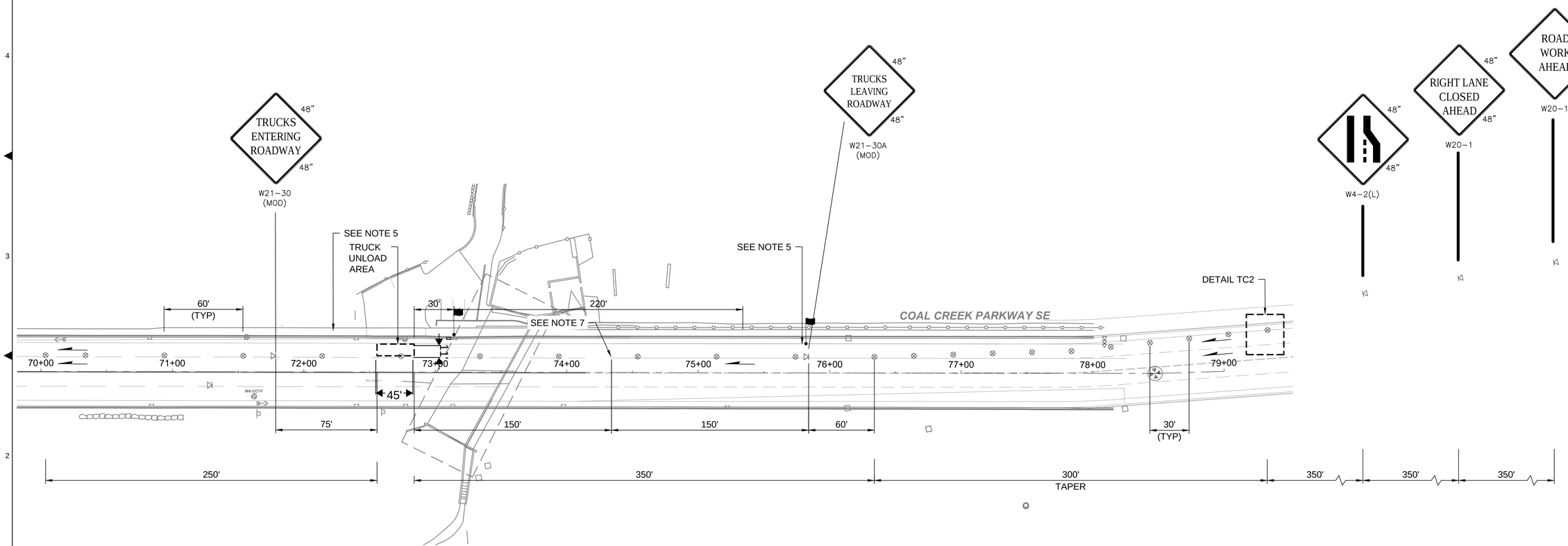
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; 116144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR SOUTH TRUNK CONNECTOR AND SPUR

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.
5. FLAGGER/SPOTTER SHALL CONTROL PEDESTRIAN AND BIKE TRAFFIC THROUGH THE WORK ZONE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRAFFIC CONE OR PYLON
- SEQUENTIAL ARROW SIGN
- FLAGGER
- WORK AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# DIRECT PIPE LAUNCH PIT TRAFFIC CONTROL PLAN (PHASE 1)

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10212
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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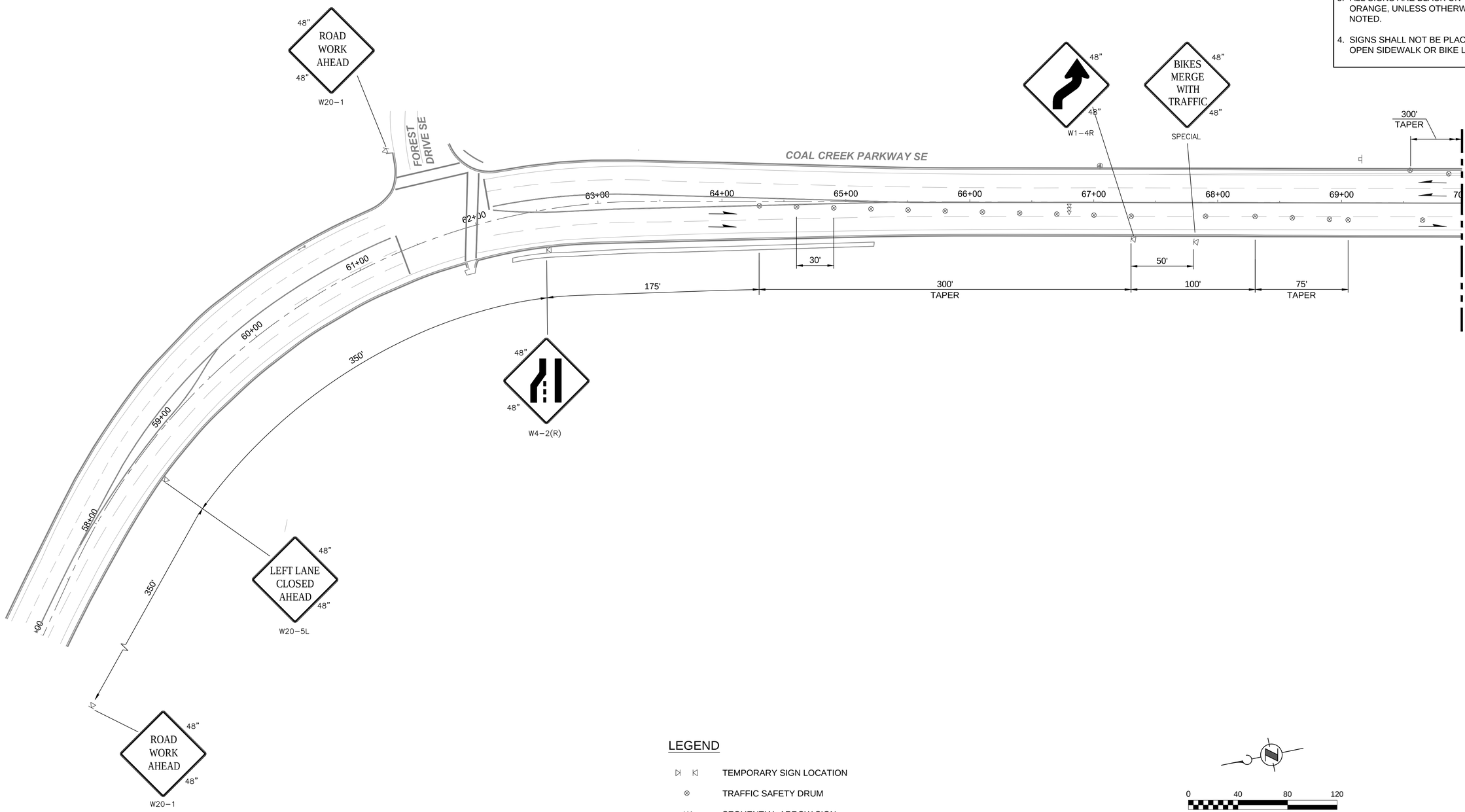
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATION

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 1) 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10213
SHT NO / TOTAL: # / #
REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\1123362-CCT900-C-10213.dwg | Layout: C-10213
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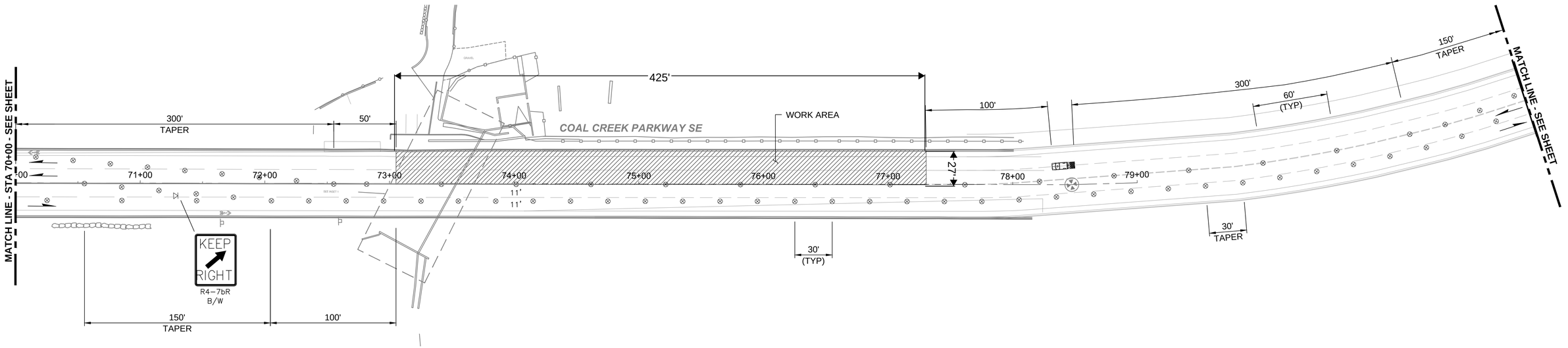
IMAGES:

PROJECT LOCATION:
NEAR SOUTH TRUNK CONNECTOR AND SPUR




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- WORK AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 1) 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10214
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\1112362-CCT900-C-10214.dwg | Layout: C-10214
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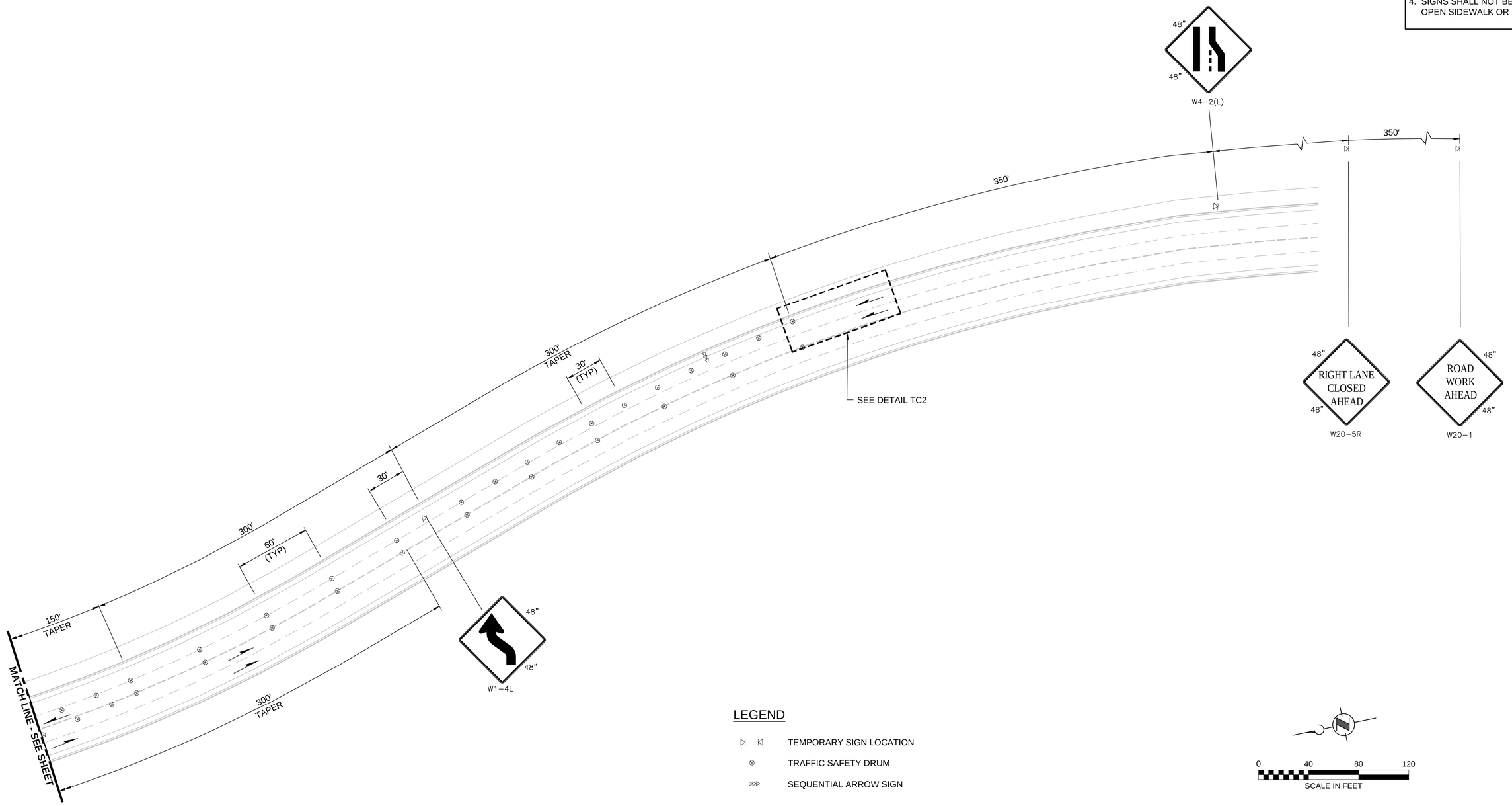
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR SOUTH TRUNK CONNECTOR

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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RICHARD MICHAEL HENDRIX
STATE OF WASHINGTON
42986
REGISTERED PROFESSIONAL ENGINEER
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|---|---|
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| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 1) 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10215
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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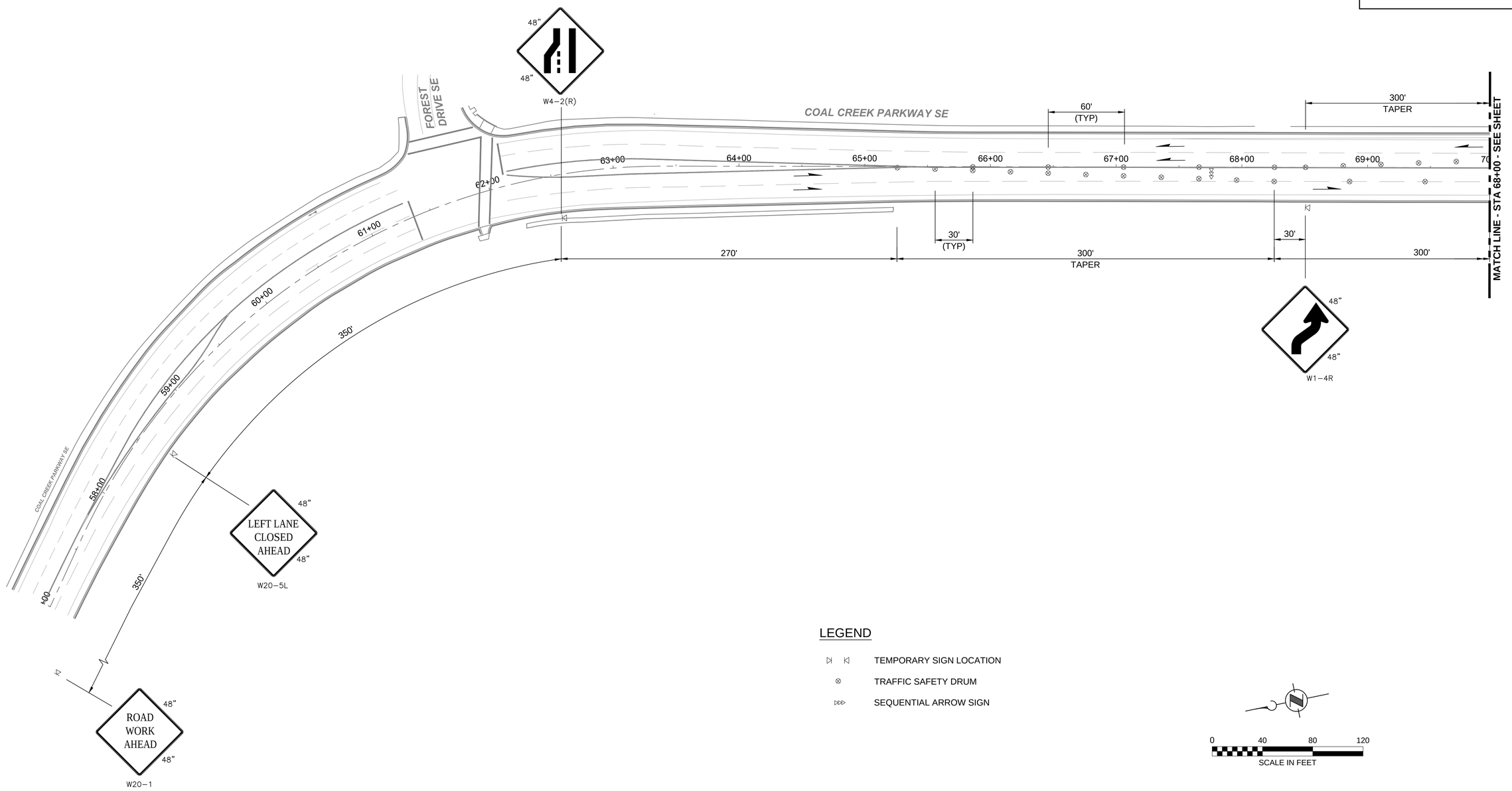
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATION

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 2) 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10216
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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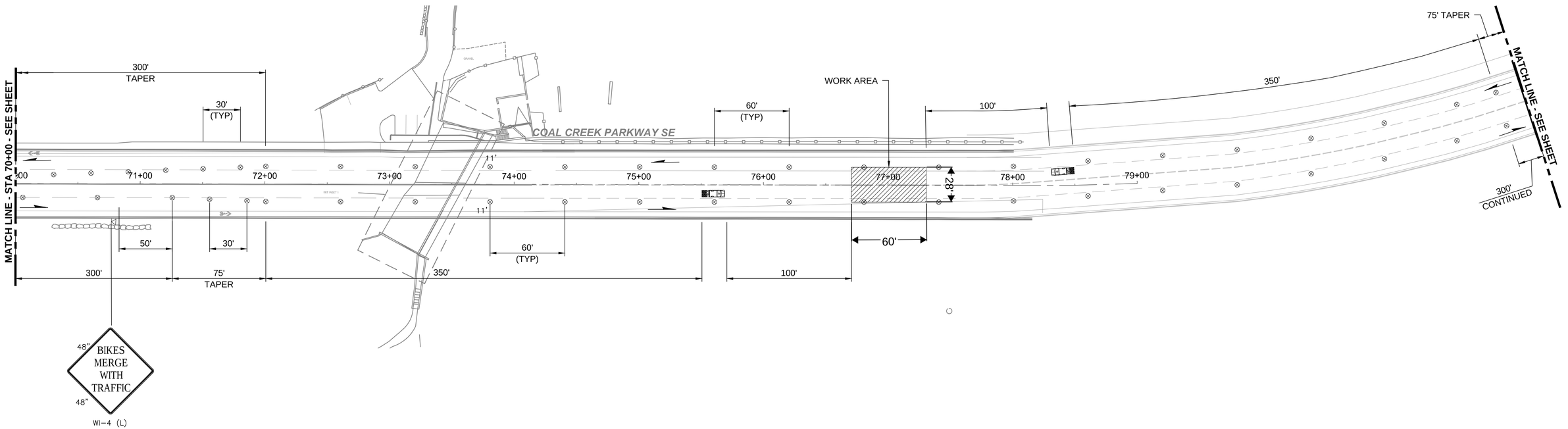
PLOTTED: Jul 29, 2020-02:10:35pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR SOUTH TRUNK CONNECTOR AND SPUR

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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AND ASSOCIATED FIRMS

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DECEMBER 2020

RICHARD HENDRIX — STATE OF WASHINGTON — 42986 — REGISTERED PROFESSIONAL ENGINEER

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| | |
|---|---|
| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 2) 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10217
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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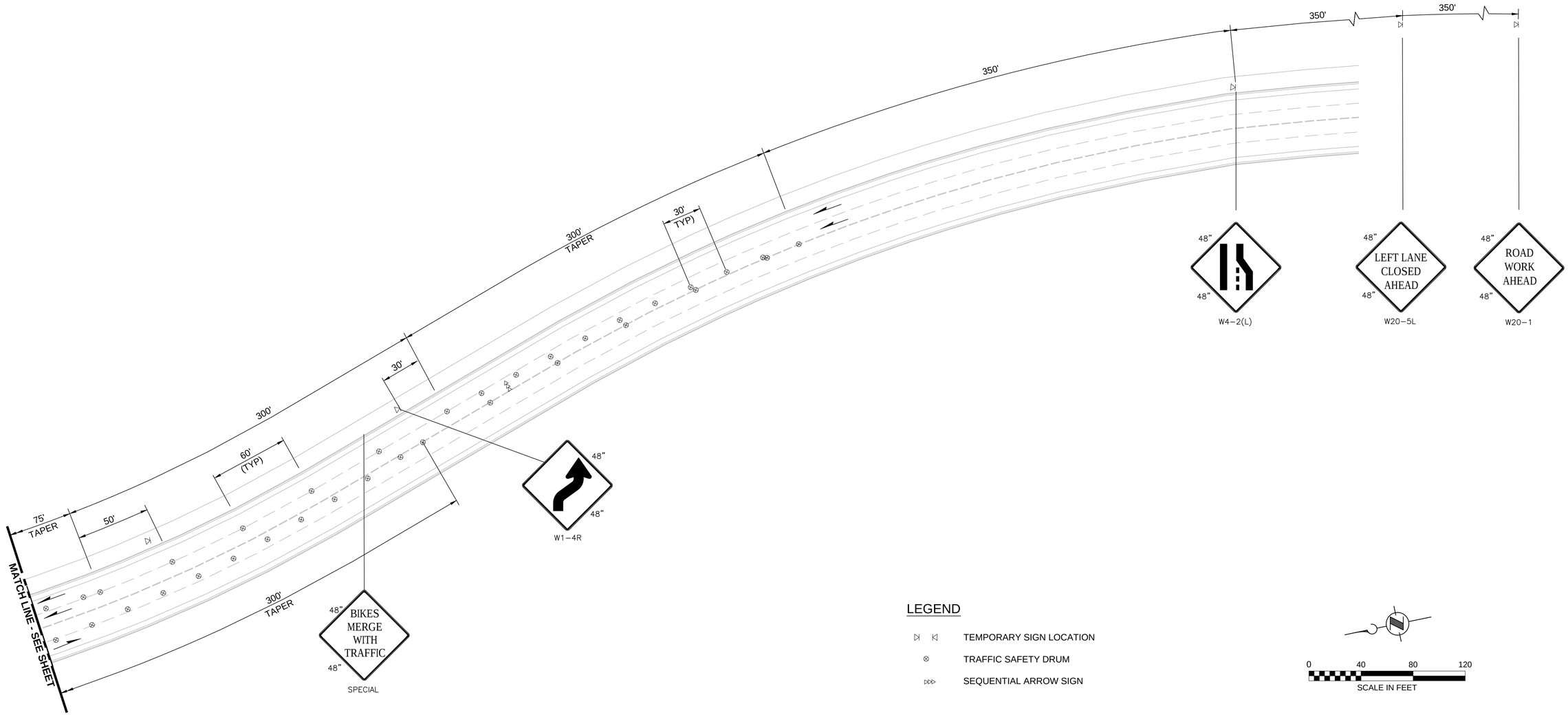
PLOTTED: Jul 29, 2020-02:12:34pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR SOUTH TRUNK CONNECTOR

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 2) 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10218
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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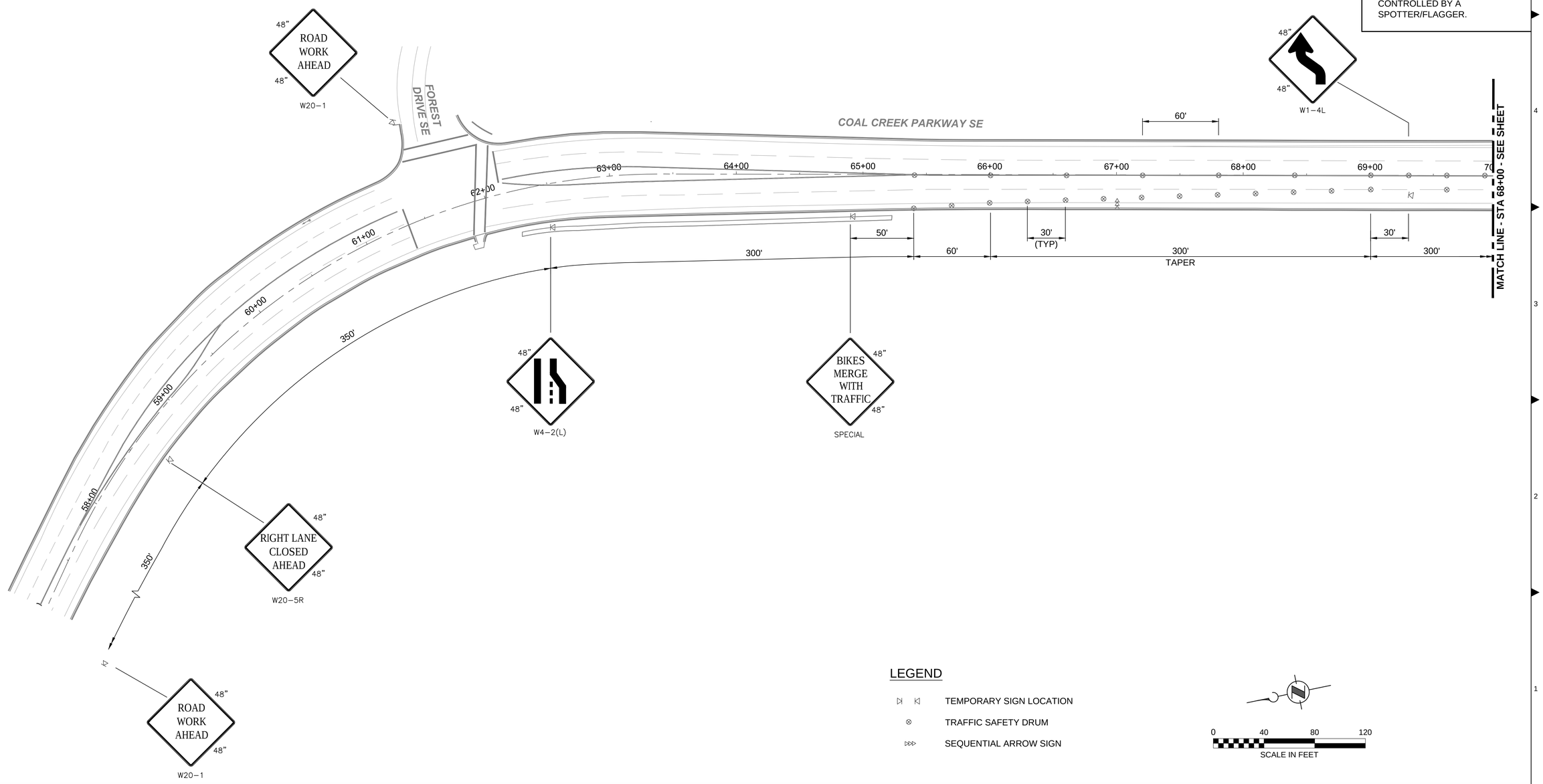
PLOTTED: Jul 29, 2020-02:14:28pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATION

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.
5. PEDESTRIANS TO BE CONTROLLED BY A SPOTTER/FLAGGER.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 3) 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10219
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\1123382-CCT900-C-10219.dwg | Layout: C-10219
PLOTTED: Jul 29, 2020-02:16:21pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; 116144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR SOUTH TRUNK CONNECTOR AND SPUR

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
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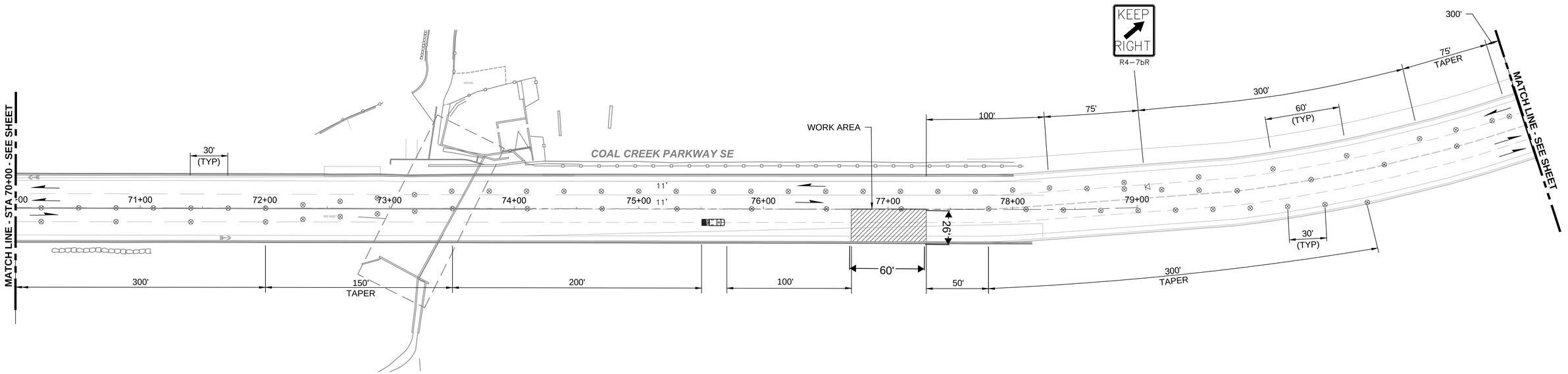
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 3) 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10220
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw-bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\1112362-CCT900-C-10220.dwg | Layout: C-10220
PLOTTED: Jul 29, 2020-02:18:27pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR SOUTH TRUNK CONNECTOR

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
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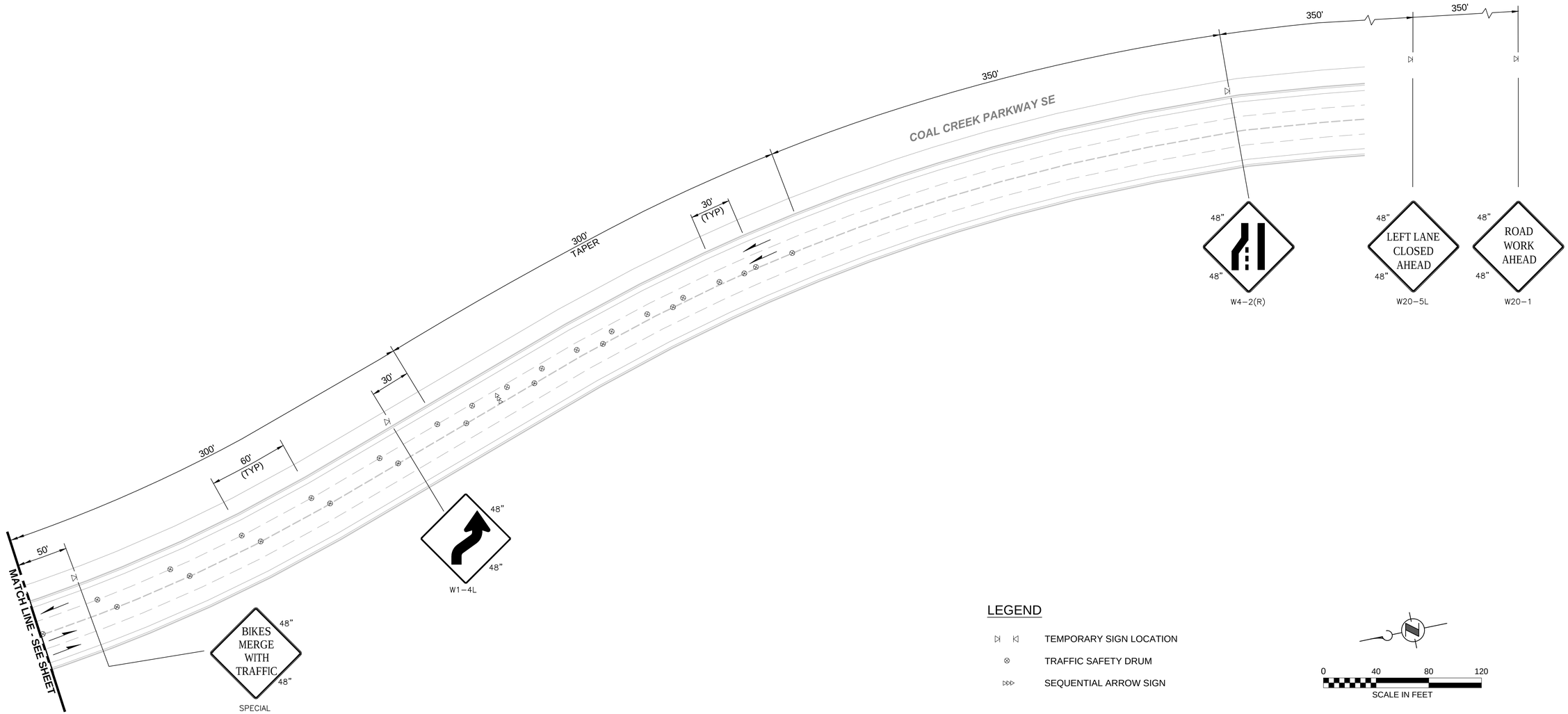


## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 3) 3

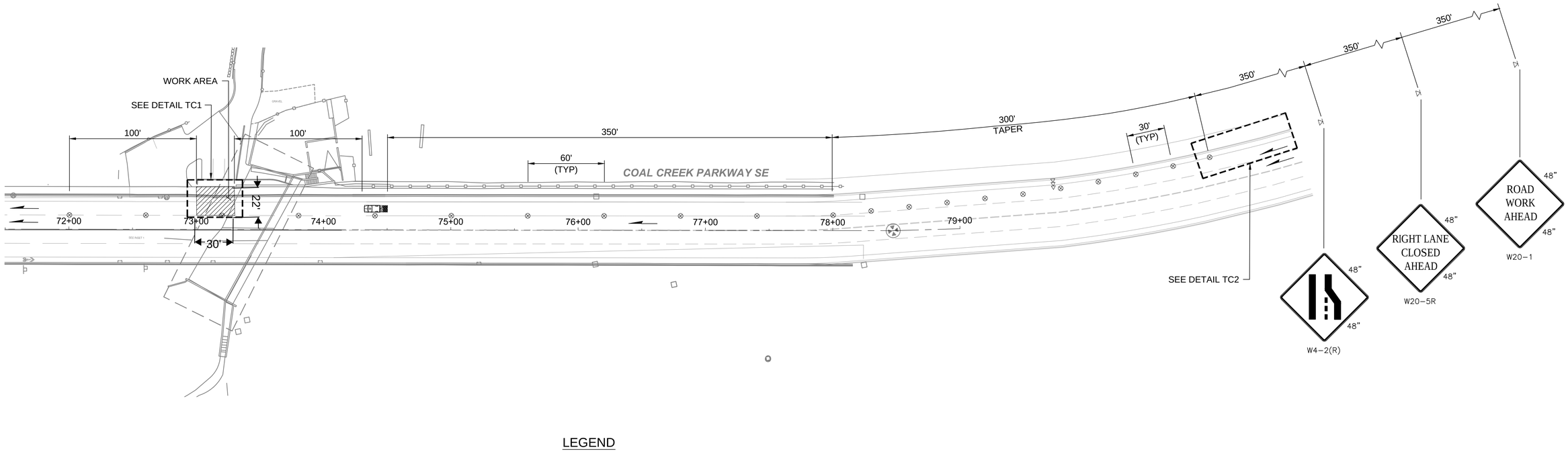
DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10221
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\bnvncald-pw.bentley.com_bnvncald-pw-01\michelle.kinsey@jacobs.com\d0406435\112362-CCT900-C-10221.dwg | Layout: C-10221
PLOTTED: Jul 29, 2020-02:20:32pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624Sheet Layout.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR SOUTH TRUNK CONNECTOR AND SPUR

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
3. ALL SIGNS ARE BLACK ON ORANGE, UNLESS OTHERWISE NOTED.
4. SIGNS SHALL NOT BE PLACED IN OPEN SIDEWALK OR BIKE LANE.
5. PEDESTRIANS TO BE CONTROLLED BY A SPOTTER/FLAGGER.




## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- WORK AREA

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

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DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOUTH TRUNK CONNECTOR TRAFFIC CONTROL PLAN (PHASE 4)

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10222
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\1123624-CCT900-C-10222.dwg | Layout: C-10222
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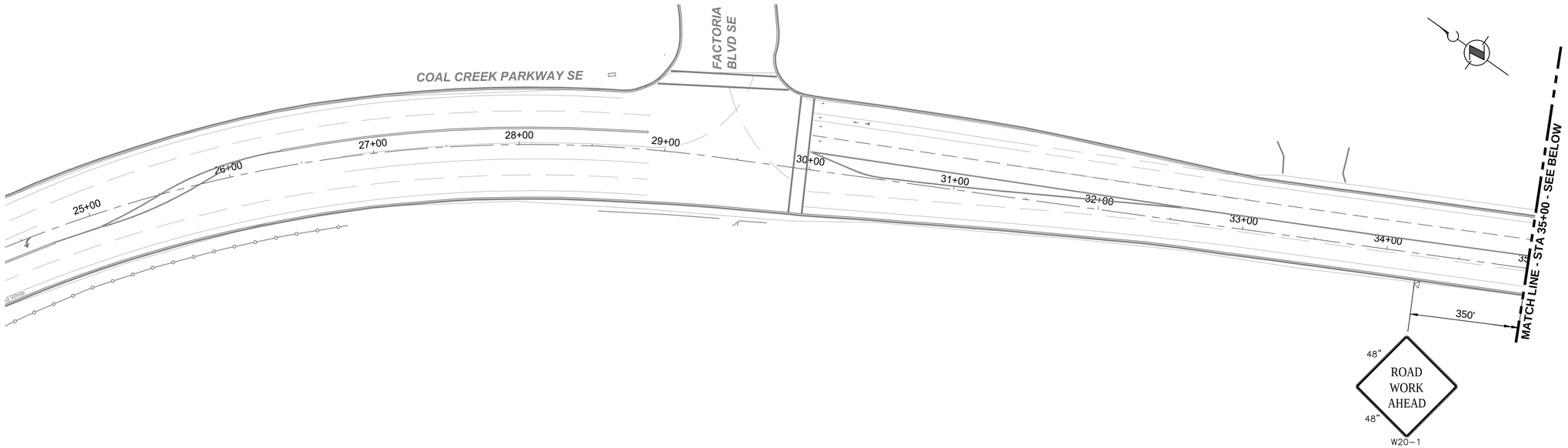
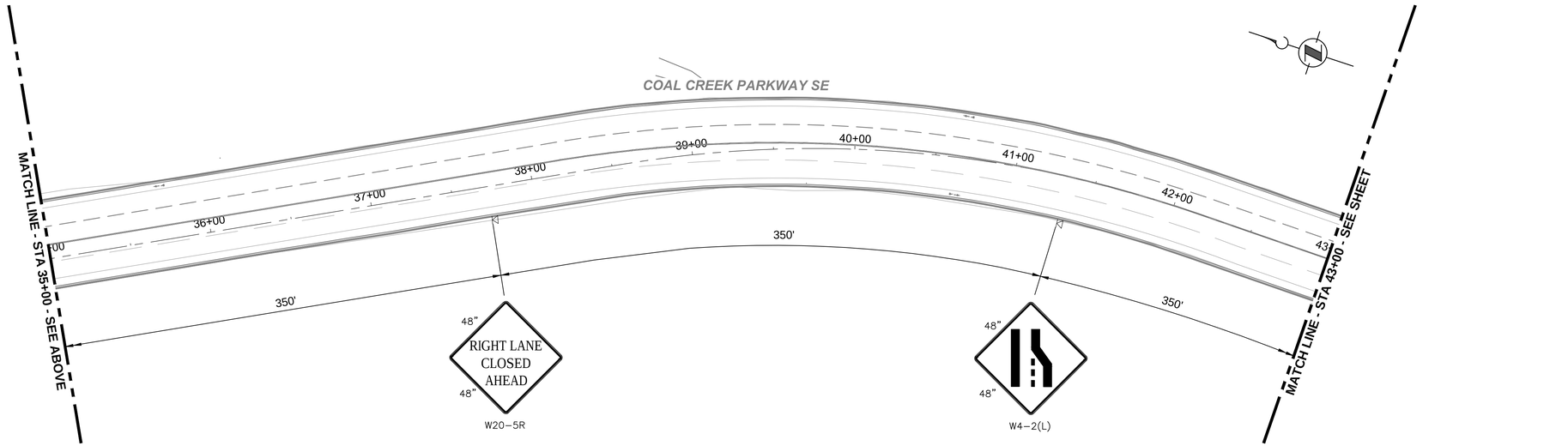
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624 TrafficControl.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg
IMAGES:

PROJECT LOCATION:
NEAR ESI CONNECTION




## GENERAL NOTES

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5. PEDESTRIANS TO BE CONTROLLED BY A SPOTTER/FLAGGER.

## LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- WORK AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MICROTUNNEL LAUNCH SHAFT TRAFFIC CONTROL PLAN 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10224
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-02:27:38pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624Alignments Perteet.dwg; 116144-C3D 2017.dwg; zexistingdata.DWG; 900-1123624 TrafficControl_Site5_Site6.dwg
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATIONS AND
SPU CORRIDOR STAGING LOCATIONS

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
2. DEVICES SHALL NOT ENCROACH INTO ADJACENT LANE.
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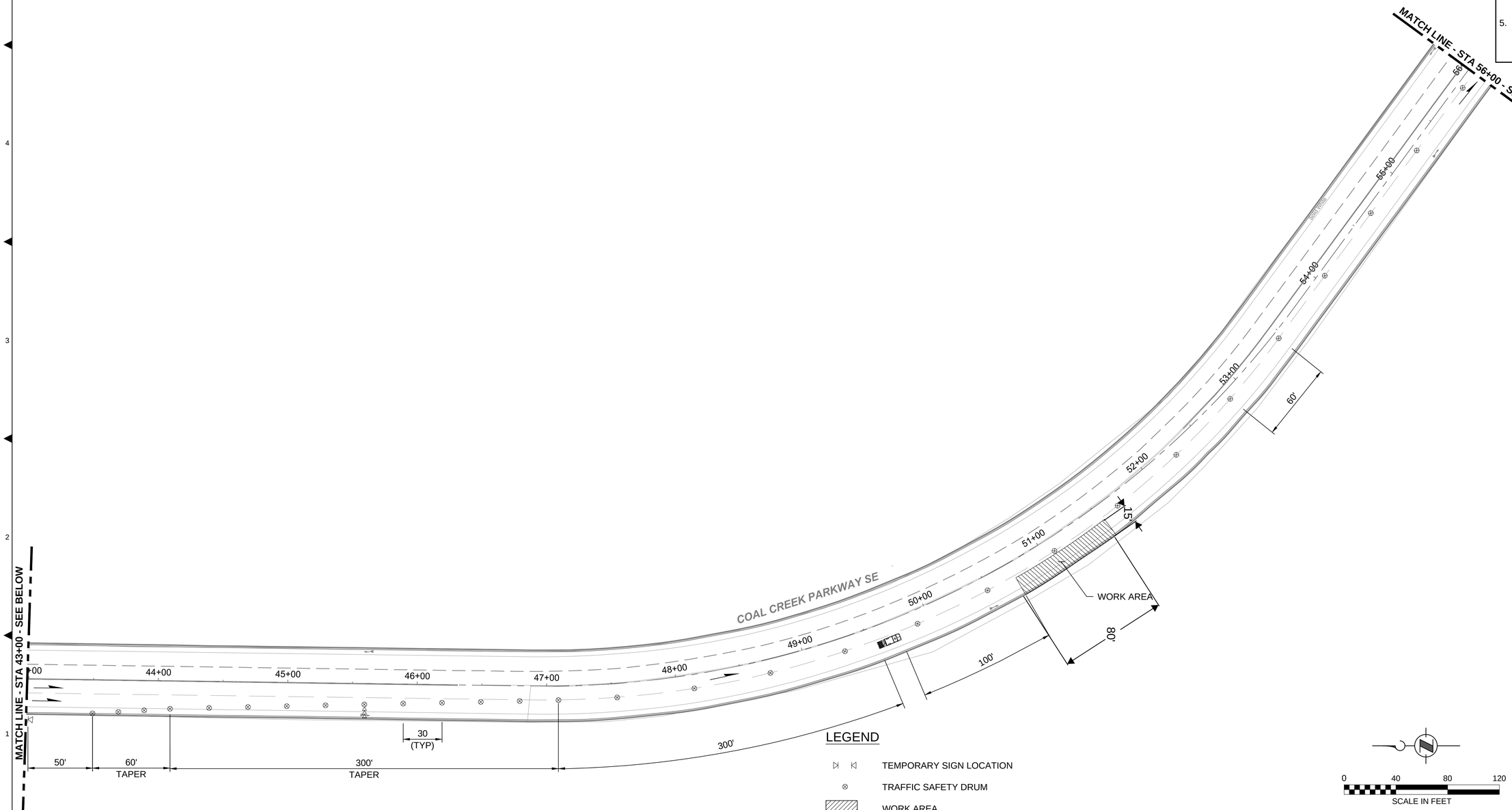


LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- WORK AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MICROTUNNEL LAUNCH SHAFT TRAFFIC CONTROL PLAN 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10225
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\bnwncald-pw.bentley.com_bnwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\112382-CCT900-C-10225.dwg | Layout: C-10225
PLOTTED: Jul 29, 2020-02:29:51pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg; zexistingdata.DWG; 900-1123624 TrafficControl_Site5_Site6.dwg
IMAGES:

PROJECT LOCATION:
NEAR MICROTUNNEL LOCATION

## GENERAL NOTES

1. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
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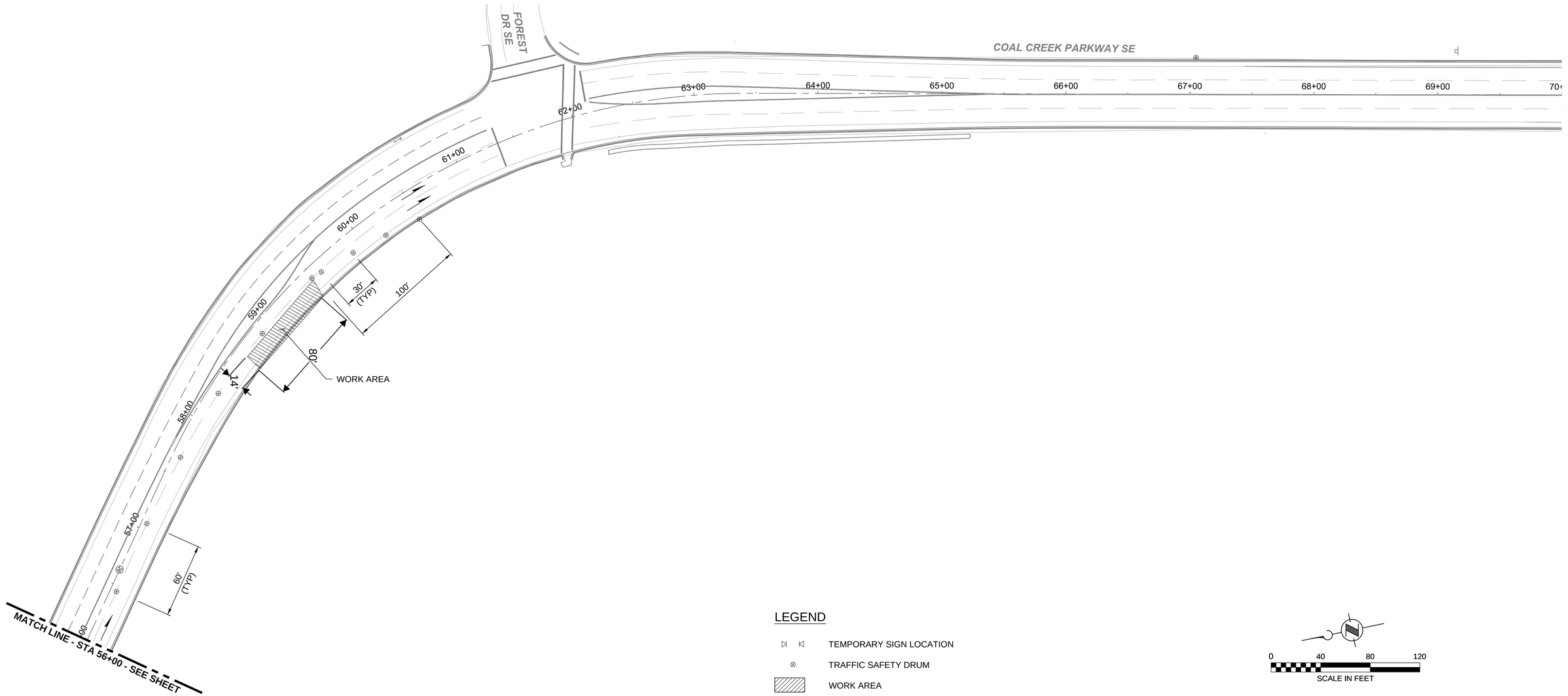


LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- WORK AREA

0 40 80 120
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MICROTUNNEL RECEIVING SHAFT TRAFFIC CONTROL PLAN

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-10226
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\ProjectWise\workingdir\bnvncald-pw.bentley.com_bnvncald-pw-01\michelle.kinsey@jacobs.com\d0406435\112362-CCT900-C-10226.dwg | Layout: C-10226
PLOTTED: Jul 29, 2020-02:32:02pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624Alignments Perteet.dwg; J16144-C3D 2017.dwg; zexisting4ata.DWG; 900-1123624 TrafficControl_Site5_Site6.dwg
IMAGES:

PROJECT LOCATION: 125TH AVENUE

REFERENCE 1" 0

# 125TH AVE SE TRAFFIC CONTROL PLAN TO BE INCLUDED AT THE NEXT DESIGN SUBMITTAL

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|
| | | | | |

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1"=40' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

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DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

**125H AVE SE TRAFFIC CONTROL PLAN**

DATE: DECEMBER 2020

DRAWING NO: **CCT900-C-10227**

SHT NO # / TOTAL # | REV NO: **0**

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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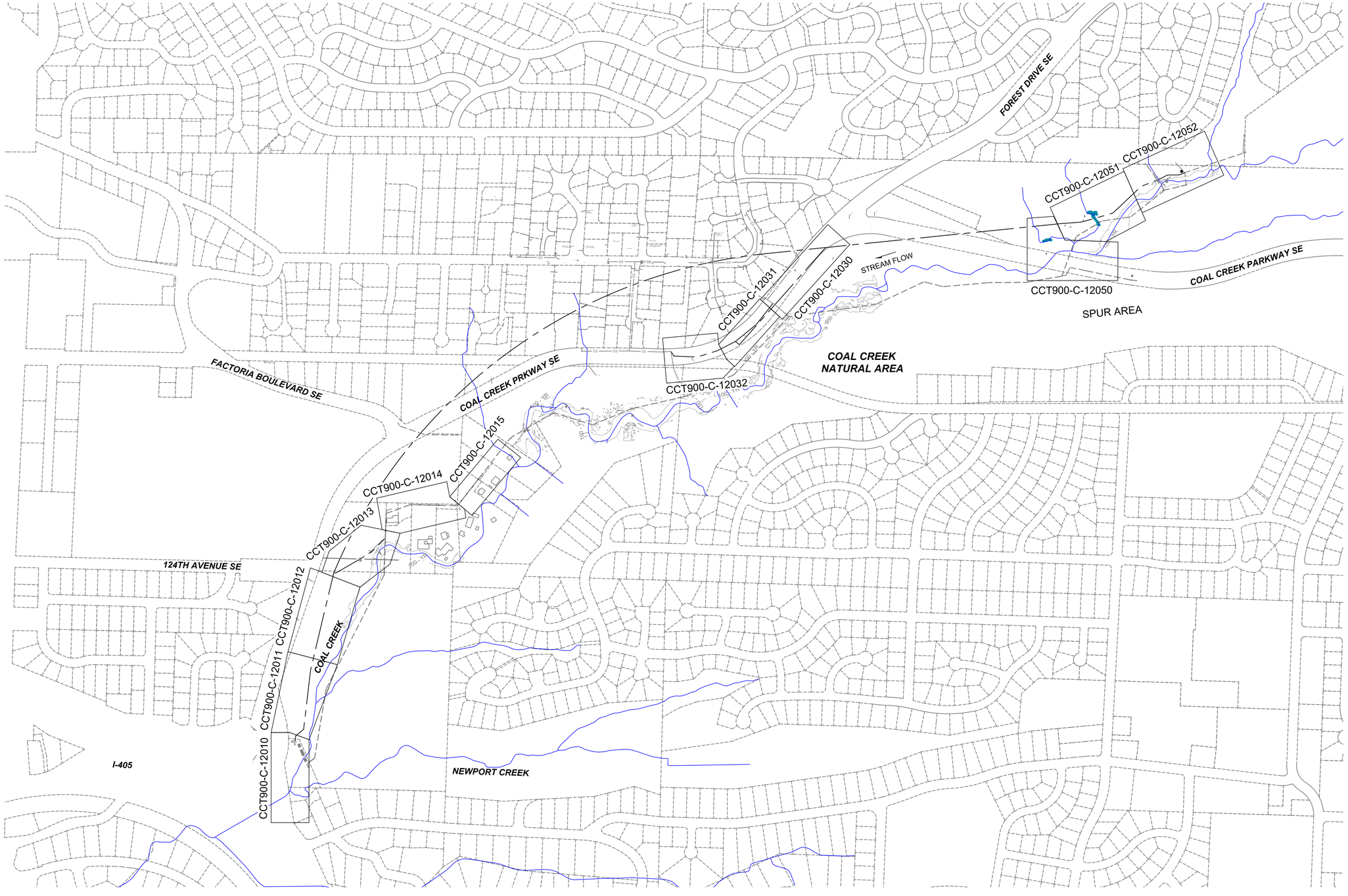


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IMAGES:

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

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DECEMBER 2020

STATE OF WASHINGTON · JACOB W. BERGMAN · NOT FOR CONSTRUCTION · EXP. 10/03 · LICENSED LANDSCAPE ARCHITECT

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

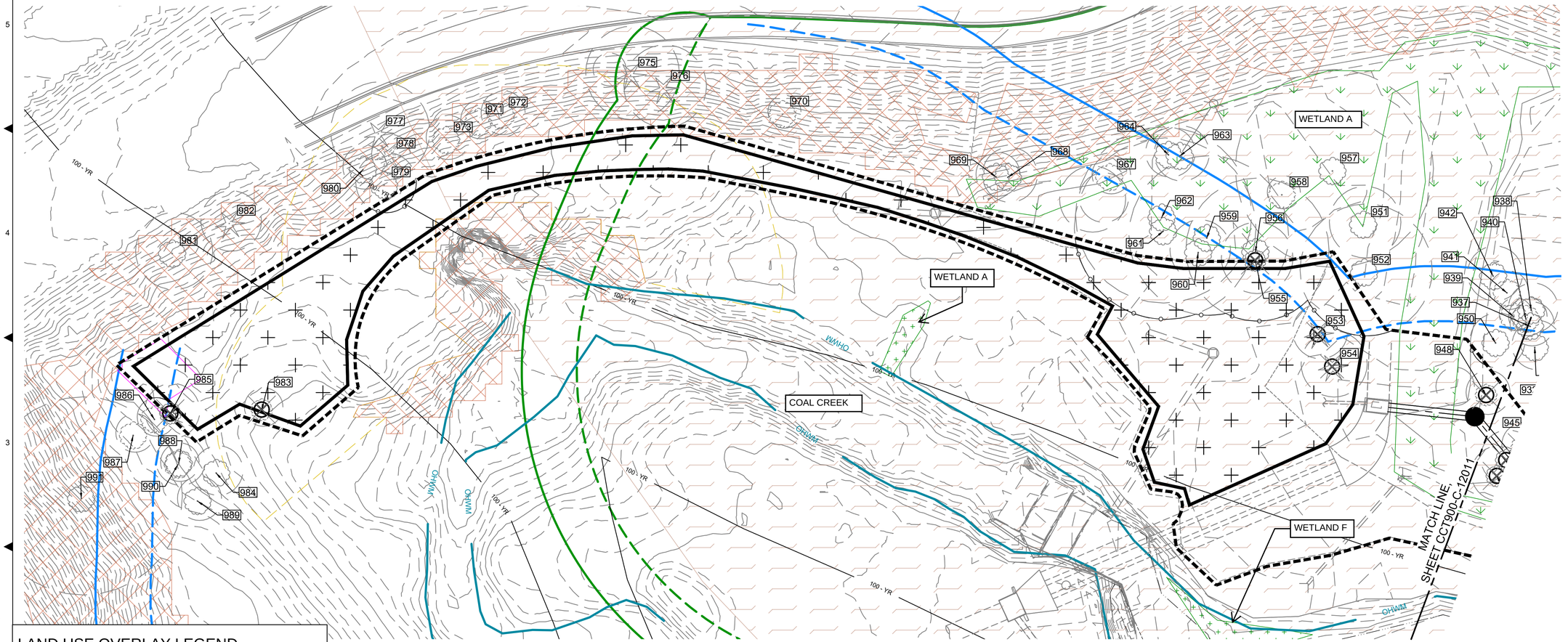
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION KEY MAP

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12001
SHT NO # / TOTAL # | REV NO: 0

PROJECT LOCATION:
EASTSIDE INTERCEPTOR (ESI) CONNECTION




## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

## LEGEND:

- DECIDUOUS
- CONIFEROUS
- SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 TREE TAG NUMBERS SEE C-52000 DWGS

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON — CAMERON BRIAN FRENCH — 22009 — REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT ESI OPENCUT 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12010
SHT NO 103 / TOTAL #
REV NO:


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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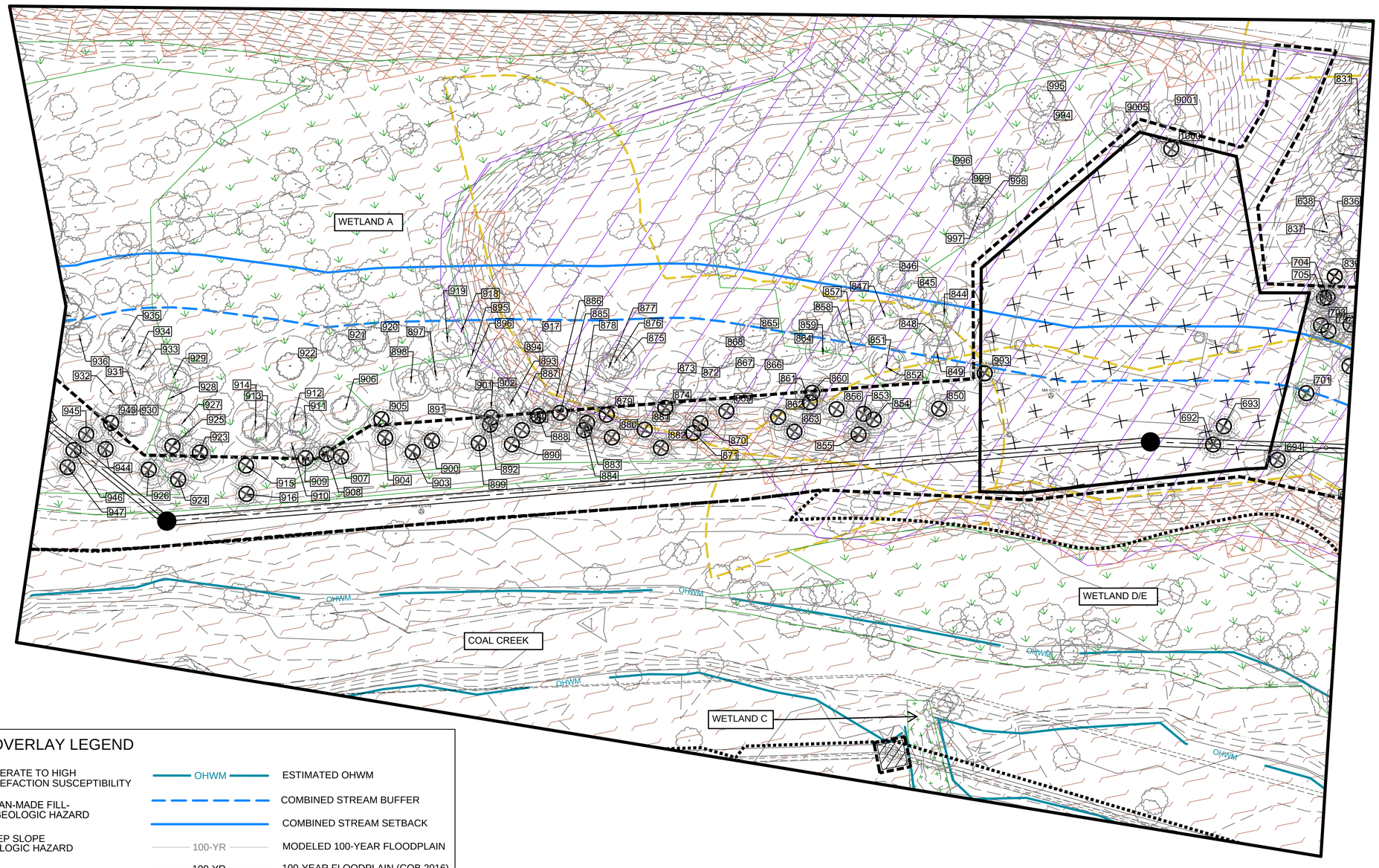
PLOTTED: Dec 11, 2020-12:57:09pm By JV036010
XREFS: 900-1123624Alignments.dwg; J16144-C3D 2017.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123621Trees.dwg; 900-1123624Basemap.dwg
IMAGES: Critical_Areas_Basemap.dwg

PROJECT LOCATION:
EASTSIDE INTERCEPTOR (ESI) CONNECTION




## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

## LEGEND:

- DECIDUOUS
- CONIFEROUS
- SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 — TREE TAG NUMBERS SEE C-52000 DWGS

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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AND ASSOCIATED FIRMS

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DECEMBER 2020

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT ESI OPENCUT 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12011
SHT NO 104 / TOTAL #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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IMAGES:

PROJECT LOCATION:
EASTSIDE INTERCEPTOR (ESI) CONNECTION

MATCH LINE, SHEET CCT900-C-12011

MATCH LINE, SHEET CCT900-C-12013

WETLAND D/E

COAL CREEK

OHWM

WWHO

100 - YR

## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

## LEGEND:

- DECIDUOUS / CONIFEROUS — SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 — TREE TAG NUMBERS SEE C-52000 DWGS

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON — BRIAN T. MCCLUNG — 22000 — REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION
NOT VALID EXP. 10/2020

| DESIGNED/DRAWN: | CHECKED: |
|---|---|
| L. FRENCH | L. KORSGAARD |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | AS NOTED |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT ESI OPENCUT 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12012
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; J16144-C3D 2017.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123621Trees.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg; 900-1123624_LPX.dwg
IMAGES:

PROJECT LOCATION:
CONDOS

WETLAND D/E

COAL CREEK

MATCH LINE, SHEET CCT900-C-12012

MATCH LINE, SHEET CCT900-C-12014

Hedge

Hedge

OHWM

100 - YR

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE FAMILY TRANSITION AREA

## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

## LEGEND:

- DECIDUOUS
- CONIFEROUS
- SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 — TREE TAG NUMBERS SEE C-52000 DWGS

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SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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Brown AND Caldwell | ch2m: | AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON — JULIE ANN BRIANTHAM — 22995 — REGISTERED LANDSCAPE ARCHITECT — NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT CONDOS

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12013
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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IMAGES:

PROJECT LOCATION:
125TH AVENUE SE

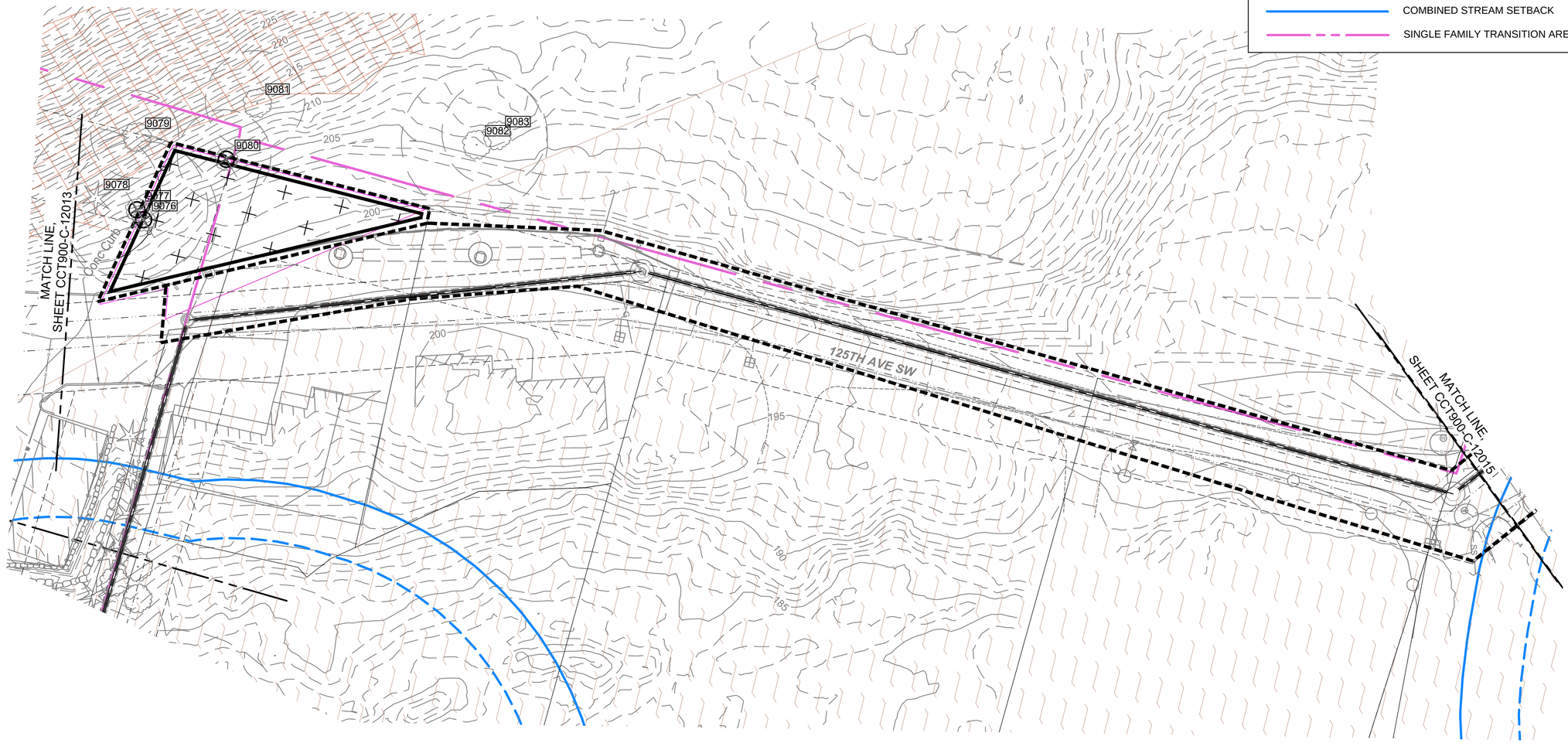
REFERENCE 1" 0 5

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- SINGLE FAMILY TRANSITION AREA

## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.




## LEGEND:

- DECIDUOUS
- CONIFEROUS
- SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 TREE TAG NUMBERS SEE C-52000 DWGS

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON · BRIAN PATTON · 20777 · REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION
SIGNATURE EXP. 10/10/21

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT 125TH AVE SE 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12014
SHT NO / TOTAL: #
REV NO:


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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IMAGES:

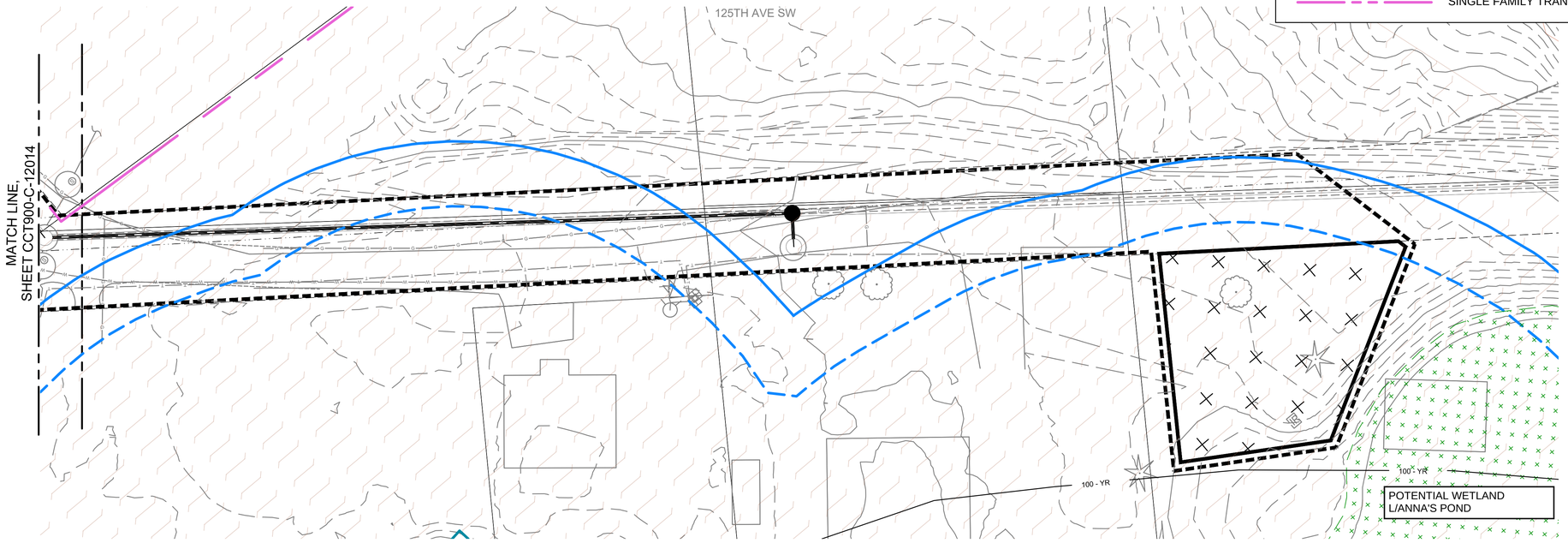
PROJECT LOCATION:
125TH AVENUE SE

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- ESTIMATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE FAMILY TRANSITION AREA

## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.




## LEGEND:

- DECIDUOUS
- CONIFEROUS
- SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 — TREE TAG NUMBERS SEE C-52000 DWGS

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SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
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Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON · BRIAN T. CASEY · 17009 · REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION
2ND WATERWAYS EXP. 10/31/2020 · ASSOC. LANDSCAPE ARCHITECT

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT 125TH AVE SE 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12015
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-12015.dwg | Layout: CCT900-C-12015
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IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION

REFERENCE 1" 0 5

## LAND USE OVERLAY LEGEND

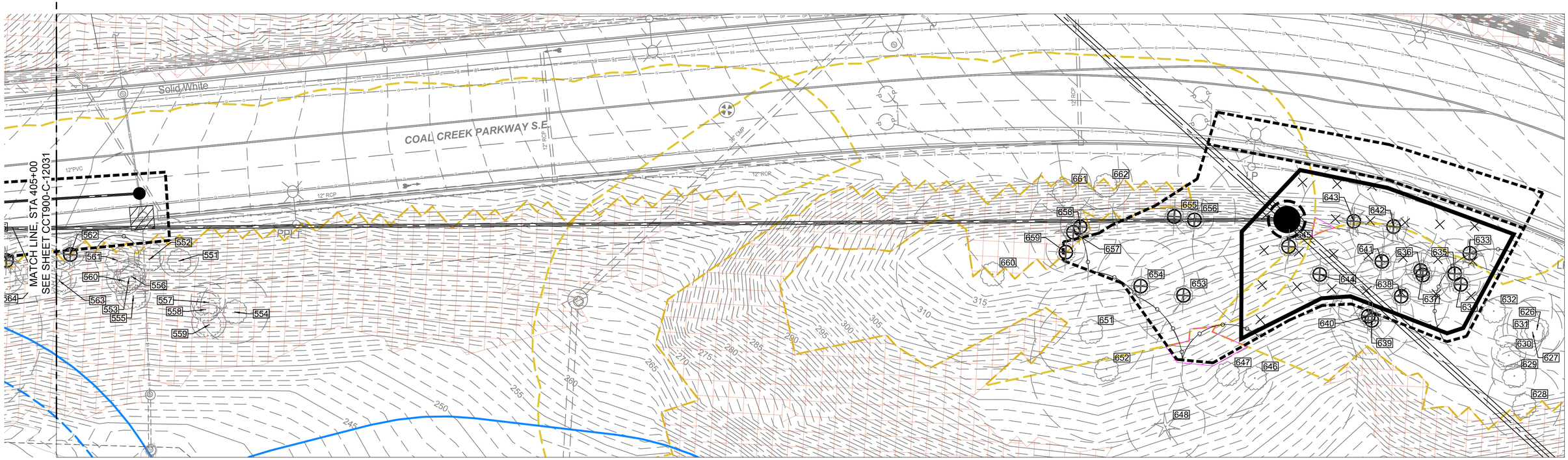
- STEEP SLOPE GEOLOGIC HAZARD
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- TOP-OF-SLOPE
- DESIGNATED CRITICAL HABITAT AREA

## LEGEND:

- DECIDUOUS
- CONIFEROUS
- SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 TREE TAG NUMBERS SEE C-52000 DWGS

## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

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SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON — C. BRIAN JACOBSEN — 19008 — REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: C. ARIZMENDEZ | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT MICROTUNNEL LAUNCH SHAFT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12030
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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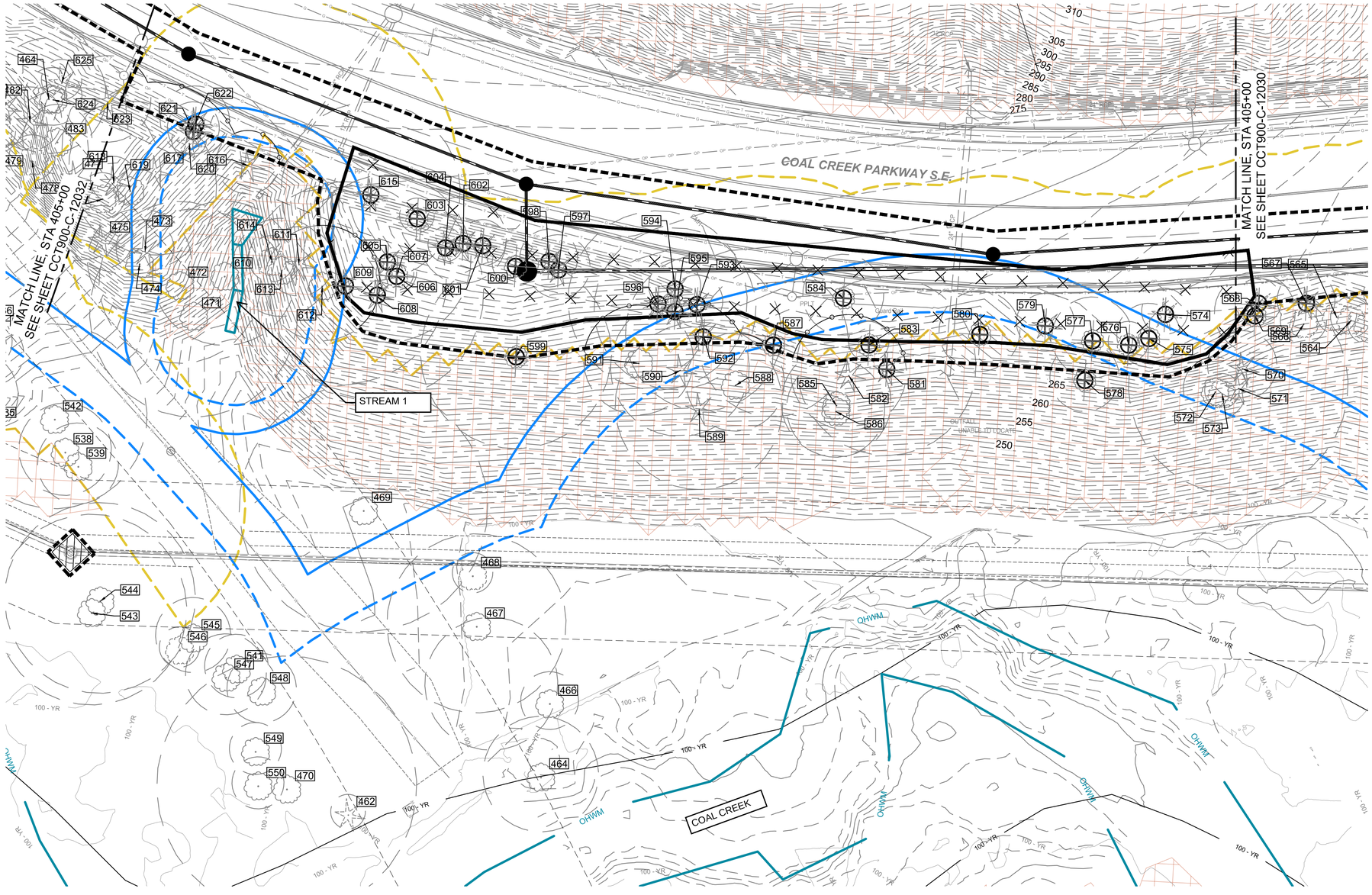
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION




## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

## LEGEND:

- DECIDUOUS / CONIFEROUS — SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 — TREE TAG NUMBERS SEE C-52000 DWGS

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 20 40
SCALE IN FEET
V: 1" = 5'

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.
DECEMBER 2020

STATE OF WASHINGTON — CHRISTOPHER A. JAMMERRUD — 21000 — REGISTERED PROFESSIONAL ENGINEER — NOT FOR CONSTRUCTION — LANDSCAPE ARCHITECT

| | |
|---|---|
| DESIGNED/DRAWN: C. ARIZMENDEZ | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT MICROTUNNEL LAUNCH SHAFT

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12031
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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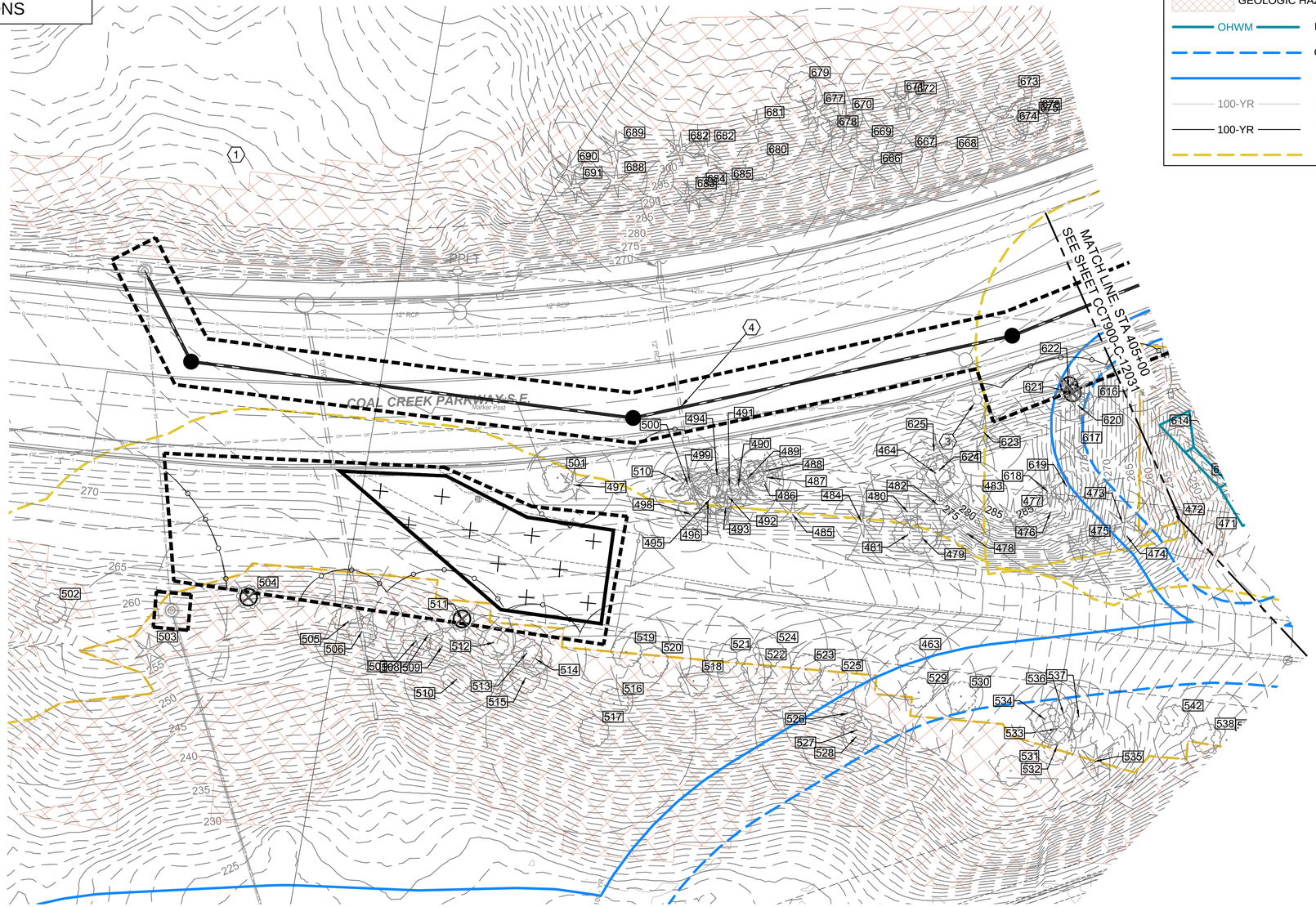
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123621Trees.dwg; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SPU CORRIDOR STAGING LOCATIONS
AND MICROTUNNEL LOCATIONS




## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

## LEGEND:

- DECIDUOUS / CONIFEROUS — SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 — TREE TAG NUMBERS SEE C-52000 DWGS

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON — CAMBRIAN T. HSU — 22777 — REGISTERED LANDSCAPE ARCHITECT — NOT FOR CONSTRUCTION — SIGN HERE EXP. 10/2020

| | |
|---|---|
| DESIGNED/DRAWN: C. ARIZMENDEZ | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT BELLEVUE OPENCUT NORTH

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12032
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-12032.dwg | Layout: CCT900-C-12032
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123621Trees.dwg; J16144-C3D 2017.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR AND SPUR

MATCH LINE, STA 705+00
SEE SHEET CCT900-C-12051

TRIBUTARY 2

WETLAND A/1

WETLAND B

TRIBUTARY 0272

COAL CREEK

COAL CREEK PARKWAY S.E.

WETLAND AA

WETLAND 2

WETLAND BB

## LAND USE OVERLAY LEGEND

- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

## LEGEND:

- DECIDUOUS
- CONIFEROUS
- SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 — TREE TAG NUMBERS SEE C-52000 DWGS

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON — BRIAN J. JACOBSEN — 21000 — REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION
SIGNATURE EXP. 10/29/2021

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT BELLEVUE OPENCUT SOUTH

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12050
SHT NO / TOTAL #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\users\jv036010\appdata\local\bentley\projectwise\working\d\brwncald-pw.bentley.com_brwncald-pw-01\julie.phillippon@jacobs.com\d0406435\CCT900-C-12050.dwg | Layout: CCT900-C-12050
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XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123621Trees.dwg; J16144-C3D 2017.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR AND SPUR

## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

## LEGEND:

- DECIDUOUS
- CONIFEROUS
- SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 TREE TAG NUMBERS SEE C-52000 DWGS

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

WETLAND B
WETLAND G
WETLAND I
COAL CREEK
TRIBUTARY 0272
MATCH LINE SHEET CCT900-C-12050
MATCH LINE SHEET CCT900-C-12052

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON — CHRISTOPHER A. WEMMER — 22000 — REGISTERED EXP. 10/10/2020 — CIVIL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT SPUR 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12051
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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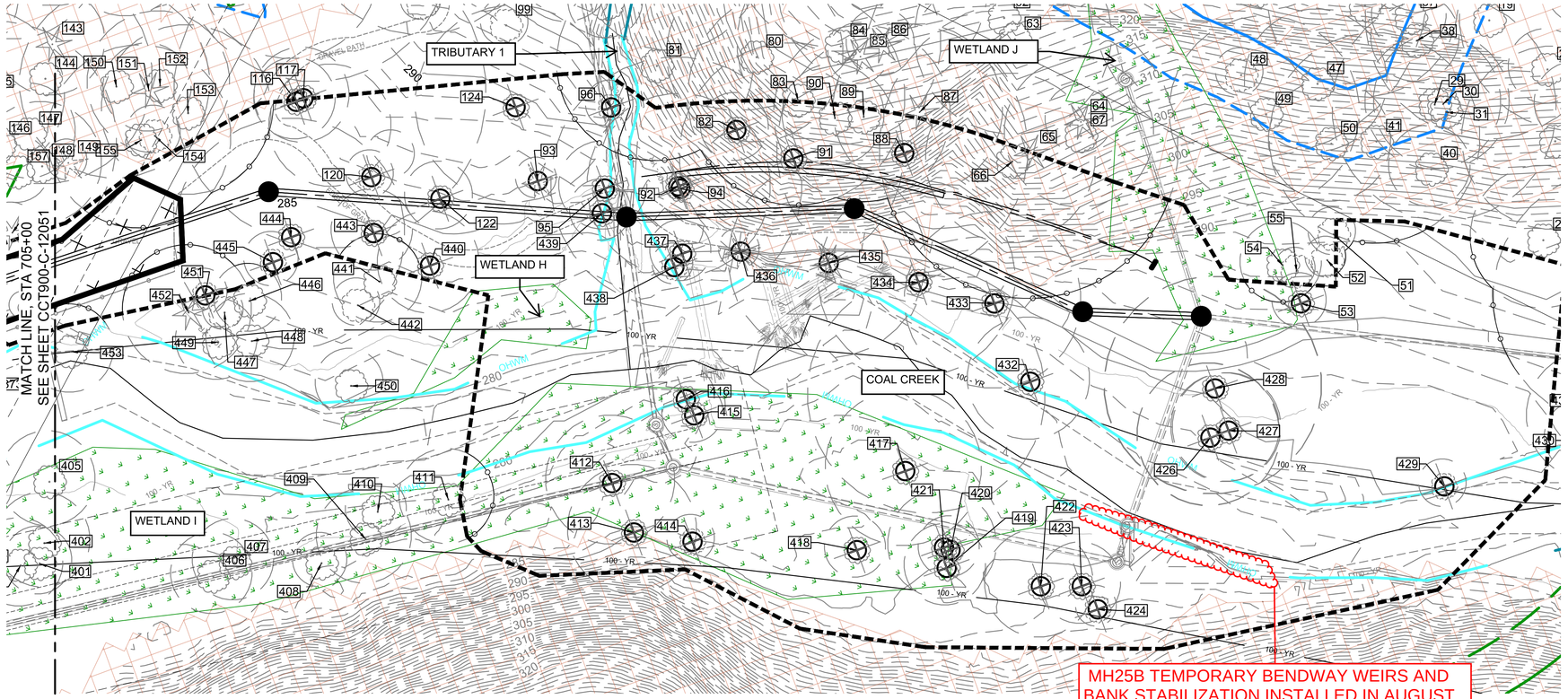
IMAGES:

PROJECT LOCATION:
SPUR




MH25B TEMPORARY BENDWAY WEIRS AND BANK STABILIZATION INSTALLED IN AUGUST 2020 TO BE FULLY REMOVED DURING STREAM RESTORATION. NO ADDITIONAL TREE IMPACTS ANTICIPATED.

## GENERAL NOTES

1. PROTECT TREES EXCEPT WHERE INDICATED TO BE REMOVED.
2. SEE TREE MANAGEMENT SPECIFICATIONS WHEN WORKING WITHIN THE TREE PROTECTION ZONE.
3. PLACE PROTECTION FENCE AT WORK LIMITS UNLESS OTHERWISE APPROVED BY PROJECT ARBORIST OR WHERE NOTED ON THE CONSTRUCTION DRAWINGS. SEE DETAIL ON SHEET C-42000.
4. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST FOR ANY TREE OR ROOT PRUNING AS DEFINED IN THE SPECIFICATIONS.
5. SEE C-52000 DWGS FOR TREE INVENTORY TABLES AND PROTECTION NOTES.

## LEGEND:

- DECIDUOUS
- CONIFEROUS
- SIGNIFICANT TREES
- NON-SIGNIFICANT TREES
- TREE PROTECTION FENCING
- TREE PROTECTION ZONE
- TREE REMOVAL
- WORK LIMITS
- 962 TREE TAG NUMBERS SEE C-52000 DWGS

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

0 20 40
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON — JOHN BRIAN FRENCH — 21777 — REGISTERED LANDSCAPE ARCHITECT — NOT FOR CONSTRUCTION — SIGN AND DATE EXP: 10/10/2021

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION PLANS AT SPUR 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-12052
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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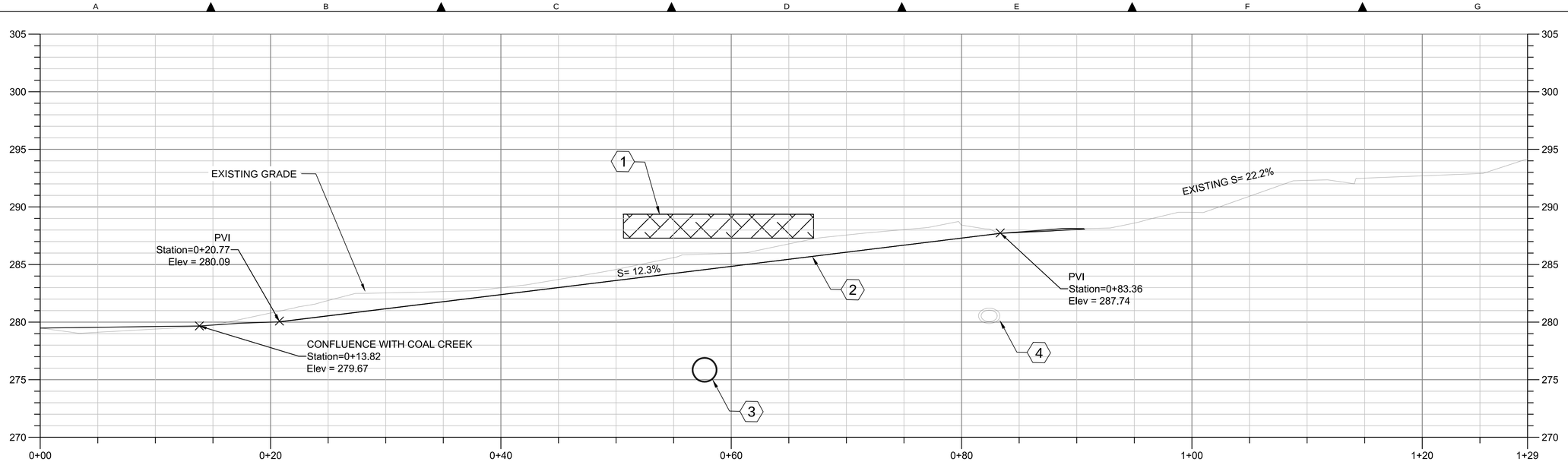
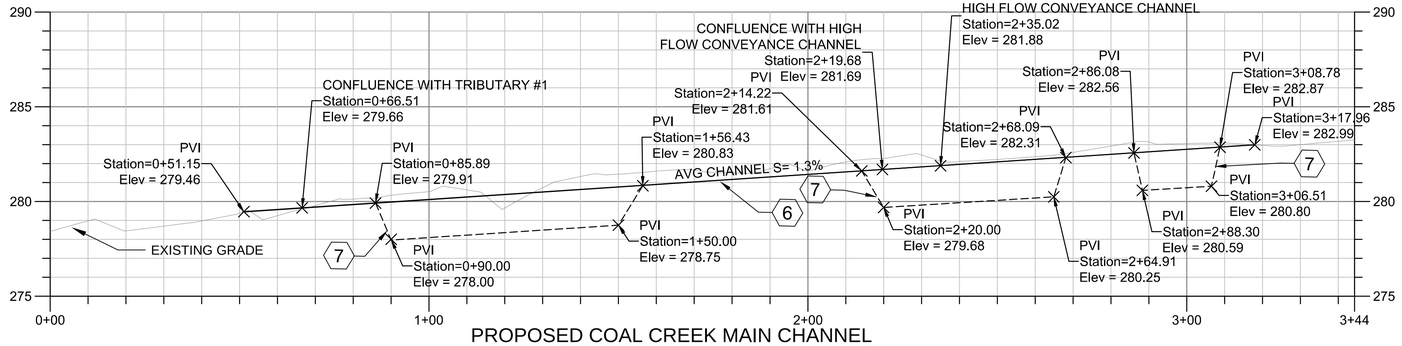
XREFS: 900-1123624Alignments.dwg; KCWTD-Dsize-TB-Border.dwg; 900-1123621Trees.dwg; J16144-C3D 2017.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123624Permitting.dwg; CCT900-C-12052
IMAGES:




## PROPOSED TRIBUTARY #1

ELEVATION A

SCALE: 1"=5'-0"; 1H:1V CCT900-C-10168




## PROPOSED COAL CREEK MAIN CHANNEL PROFILE AT SPUR

ELEVATION B

SCALE: 1"=20': 1H:5V CCT900-C-10166
CCT900-C-10167

## KEY NOTES

1. PROPOSED GRADE OF ACCESS ROAD SEE SHEET CCT900-L-11008
2. PROPOSED GRADE OF STREAM
3. PROPOSED SEWER SEE SHEET CCT900-C-10071
4. EXISTING SEWER
5. PROPOSED CONFLUENCE OF COAL CREEK AND TRIBUTARY #1
6. PROPOSED STREAM CENTERLINE
7. PROPOSED STREAM POOLS SEE SHEET CCT900-C-40162

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell : ch2m:
AND ASSOCIATED FIRMS

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This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

NICHOLAS VANBUSKIRK — STATE OF WASHINGTON — 21432 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION PROFILES 1

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-20160

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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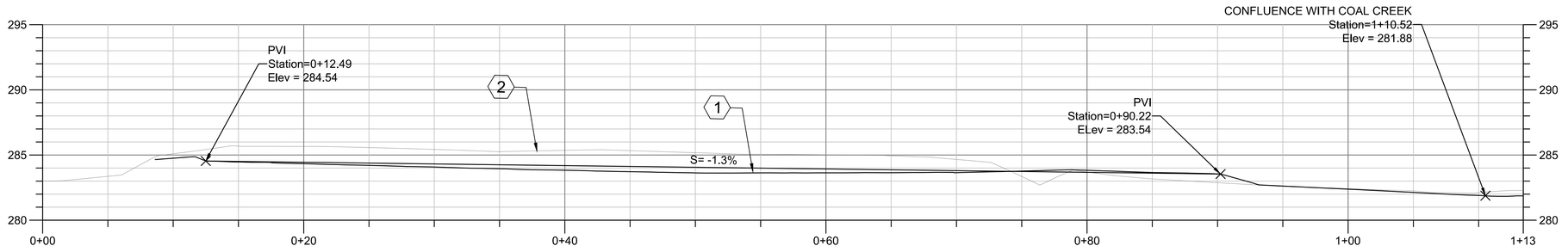
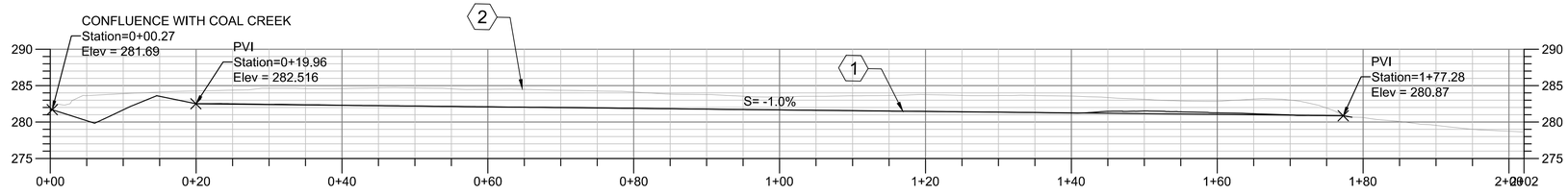
IMAGES:




PROPOSED UPSTREAM HIGH FLOW CONVEYANCE CHANNEL

ELEVATION (A)

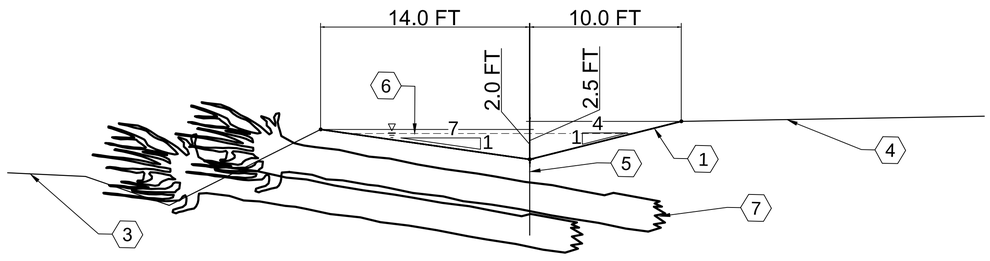
SCALE: 1"=5'-0"; 1H:1V CCT900-C-10166
CCT900-C-10167




PROPOSED HIGH FLOW CONVEYANCE CHANNEL

ELEVATION (B)

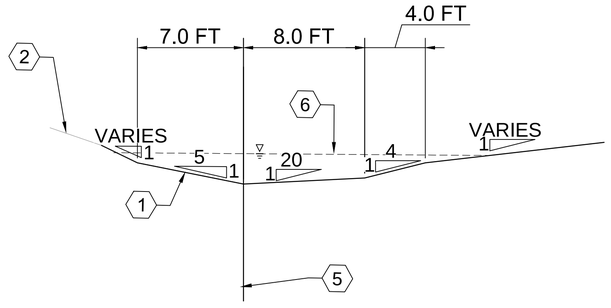
SCALE: 1"=10'-0"; 1H:1V CCT900-C-10166




PROPOSED UPSTREAM HIGH FLOW CONVEYANCE CHANNEL

SECTION (C)

SCALE: 1"=5'-0"; 1H:1V CCT900-C-10166
CCT900-C-10167




PROPOSED HIGH FLOW CONVEYANCE CHANNEL

SECTION (D)

SCALE: 1"=5'-0"; 1H:1V CCT900-C-10166

## KEY NOTES

1. PROPOSED GRADE OF HIGH FLOW CONVEYANCE CHANNEL
2. EXISTING GRADE
3. PROPOSED GRADE OF COAL CREEK MAIN CHANNEL
4. PROPOSED GRADE OF ACCESS ROAD SEE SHEET CCT900-L-11008
5. PROPOSED HIGH FLOW CONVEYANCE CHANNEL CENTERLINE
6. PROPOSED 100-YR WATER SURFACE ELEVATION (WSE)
7. LARGE WOODY MATERIAL

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell : ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

NICHOLAS VANBUSKIRK — STATE OF WASHINGTON — 19631 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION PROFILES 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-20161
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-10:30:54am By kinseym2
XREFS: Stream Restoration.dwg; KCWTD-Dsize-TB-Border.dwg
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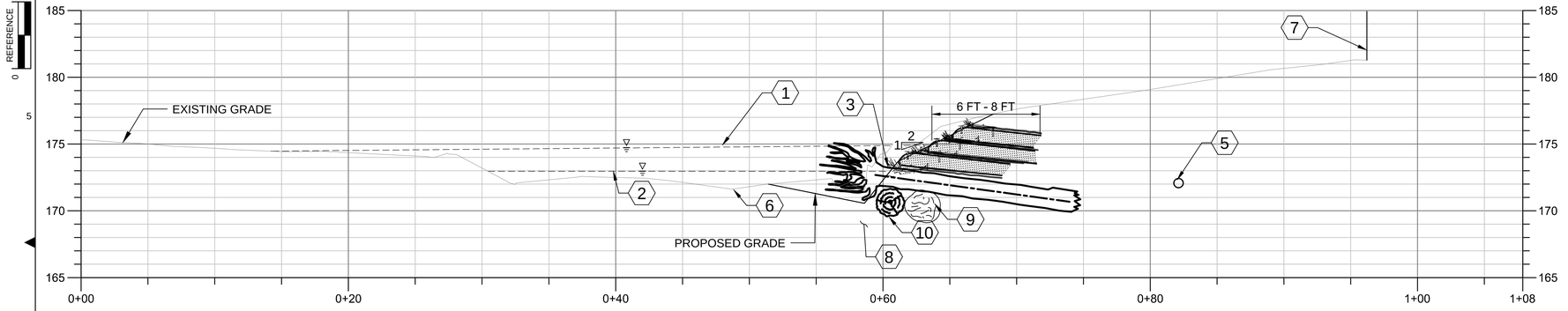
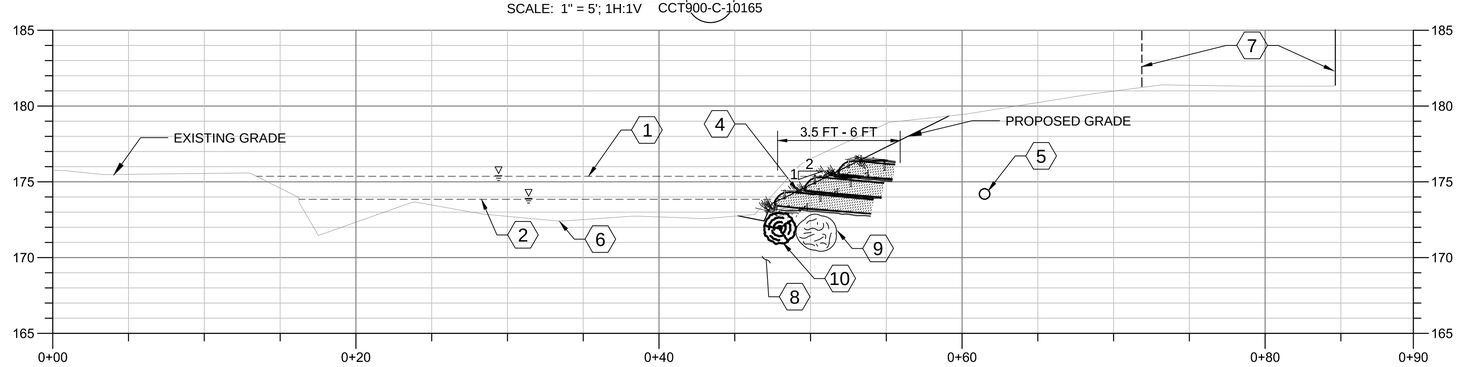


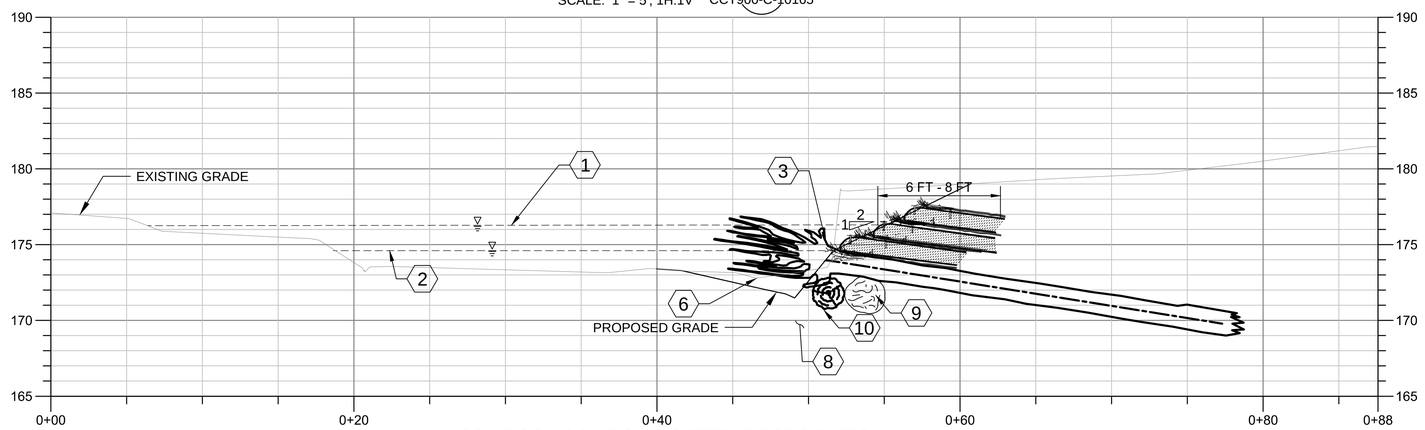

CONDOS LOCATION - CREEK RESTORATION
DOWNSTREAM LARGE WOODY MATERIAL

SECTION A
SCALE: 1" = 5'; 1H:1V CCT900-C-10165




CONDOS LOCATION - CREEK RESTORATION
FABRIC-ENCAPSULATED SOIL LIFT (FESL)

SECTION B
SCALE: 1" = 5'; 1H:1V CCT900-C-10165




CONDOS LOCATION - CREEK RESTORATION
UPSTREAM LARGE WOODY MATERIAL

SECTION C
SCALE: 1" = 5'; 1H:1V CCT900-C-10165

## KEY NOTES

1. PROPOSED 100-YR WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
2. PROPOSED 2-YR WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
3. EXCAVATE AND PLACE FABRIC-ENCAPSULATED SOIL LIFTS ON TOP OF LARGE WOODY MATERIAL. SEE DETAILS B/ CCT900-C-401610 AND B/CCT900-C-40166. MAINTAIN 5-FOOT OFFSET DISTANCE FROM PROPOSED SEWER LINE.
4. EXCAVATE AND PLACE FABRIC-ENCAPSULATED SOIL LIFT. SEE DETAIL A/ CCT900-C-40166. MAINTAIN 5-FOOT OFFSET FROM PROPOSED SEWER LINE.
5. PROPOSED SANITARY SEWER SEE SHEET CCT900-C-10030
6. EXISTING STREAM THALWEG
7. EXISTING CONDOMINIUMS TO REMAIN IN PLACE UNDISTURBED
8. KEY IN TOE ROCK (CLASS A RIPRAP), NOW SHOWN FOR CLARITY. SEE SHEET CCT900-C-40166 FOR ADDITIONAL INFORMATION
9. PROPOSED BALLAST BOULDER
10. PROPOSED FOUNDATION LOG

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

NICHOLAS VANBUSKIRK — STATE OF WASHINGTON — 22010 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION SECTIONS 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-30160
SHT NO / TOTAL #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-10:33:05am By kinseym2
XREFS: Stream Restoration- Condos.dwg; KCWTD-Dsize-TB-Border.dwg
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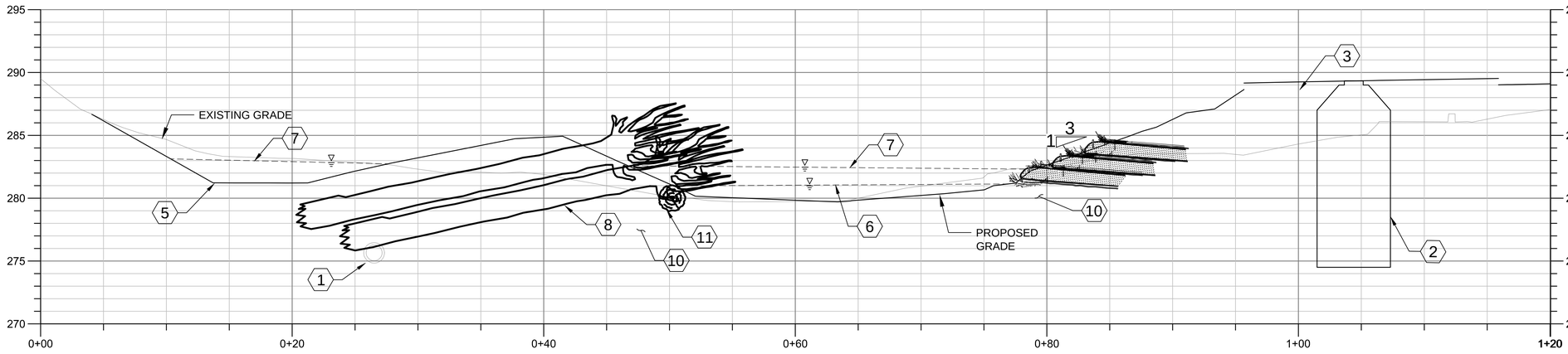


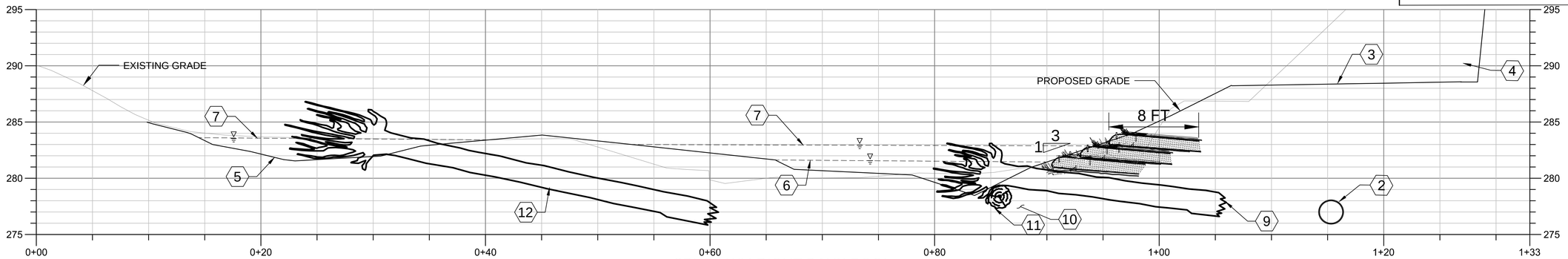

SPUR DOWNSTREAM LWM LEFT BANK RIFFLE

SECTION A

SCALE: 1"=5'-0";1H:1V CCT900-C-10166

## KEY NOTES

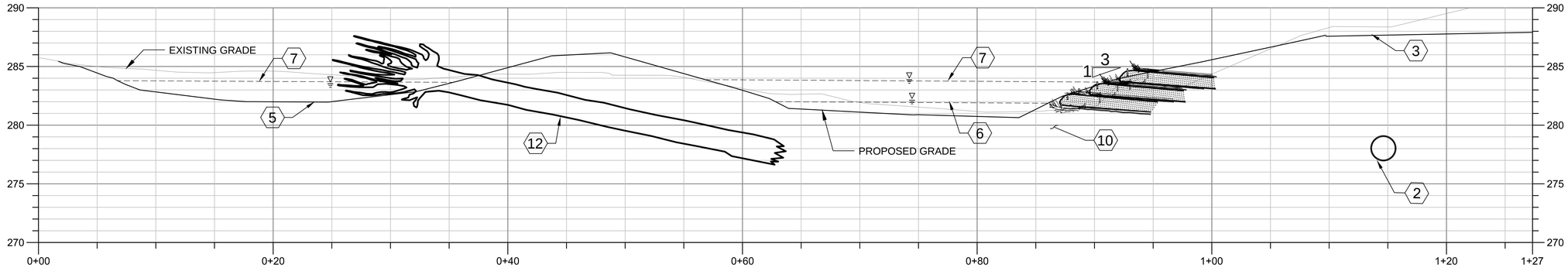
1. EXISTING SEWER TO BE REMOVED SEE SHEET CCT900-C-10105
2. PROPOSED SEWER SEE SHEET CCT900-C-10071
3. PROPOSED ACCESS ROAD SEE SHEET CCT900-L-11008
4. PROPOSED RETAINING WALL SEE SHEET CCT900-S-20070
5. PROPOSED HIGH FLOW CONVEYANCE CHANNEL SEE SHEET CCT900-C-20161
6. PROPOSED 2-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
7. PROPOSED 100-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
8. EXCAVATE AND PLACE LARGE WOODY MATERIAL FLOW DEFLECTION STRUCTURE. SEE DETAIL A/CCT900-C-40166
9. EXCAVATE AND PLACE LARGE WOODY MATERIAL WITH FABRIC-ENCAPSULATED SOIL LIFT. SEE B/ CCT900-C-40161 FOR DETAILS
10. KEY IN TOE ROCK (CLASS A RIPRAP), NOT SHOWN FOR CLARITY. SEE SHEET CCT900-C-40166 FOR ADDITIONAL INFORMATION
11. PROPOSED FOUNDATION LOG
12. EXCAVATE AND PLACE LARGE WOODY MATERIAL FLOODPLAIN HABITAT LOG. SEE DETAIL B/CCT900-C-40161




SPUR LWM RIGHT BANK POOL

SECTION B

SCALE: 1"=5'-0";1H:1V CCT900-C-10166




SPUR MIDDLE RIFFLE

SECTION C

SCALE: 1"=5'-0";1H:1V CCT900-C-10166

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DECEMBER 2020

NICHOLAS VANBUSKIRK — STATE OF WASHINGTON — 21632 — REGISTERED PROFESSIONAL ENGINEER

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| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION SECTIONS 2

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-30161

SHT NO / TOTAL #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: Stream Restoration.dwg; KCWTD-Dsize-TB-Border.dwg
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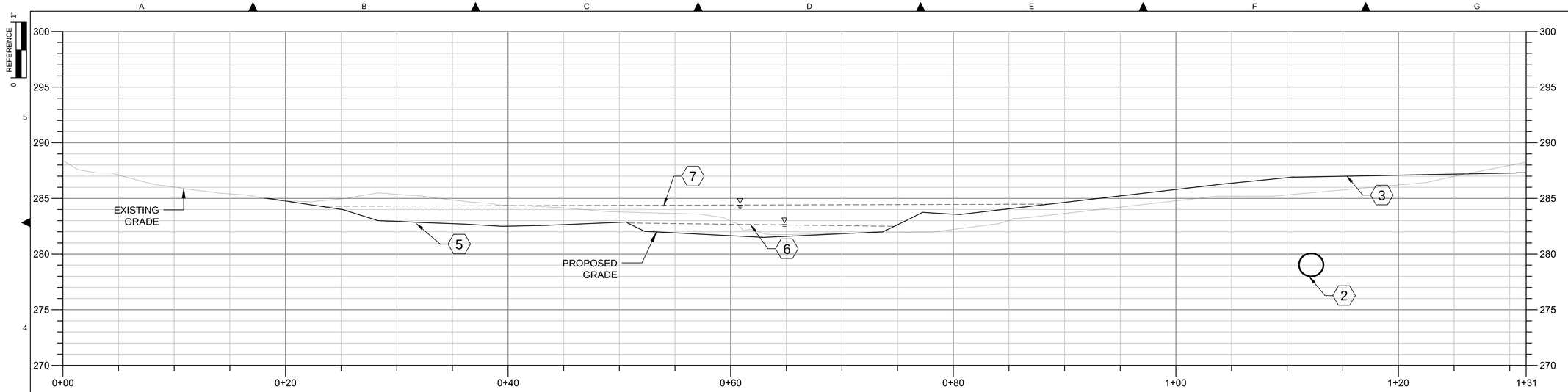
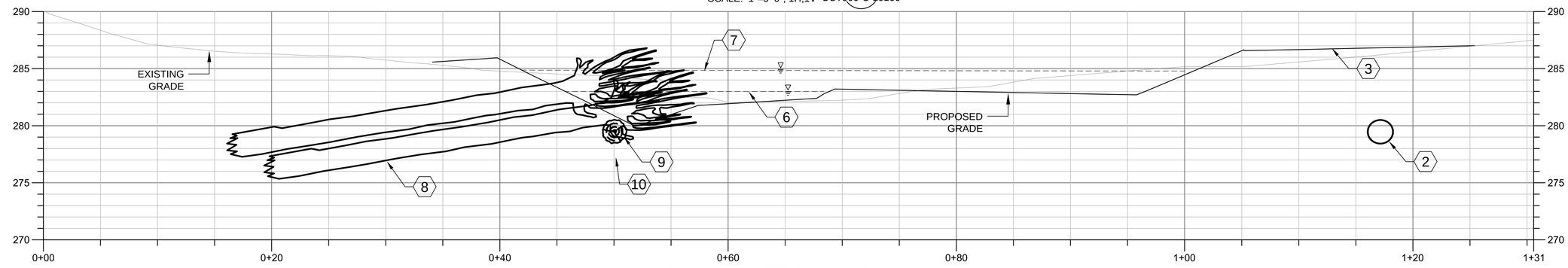



SPUR UPSTREAM RIFFLE

SECTION D

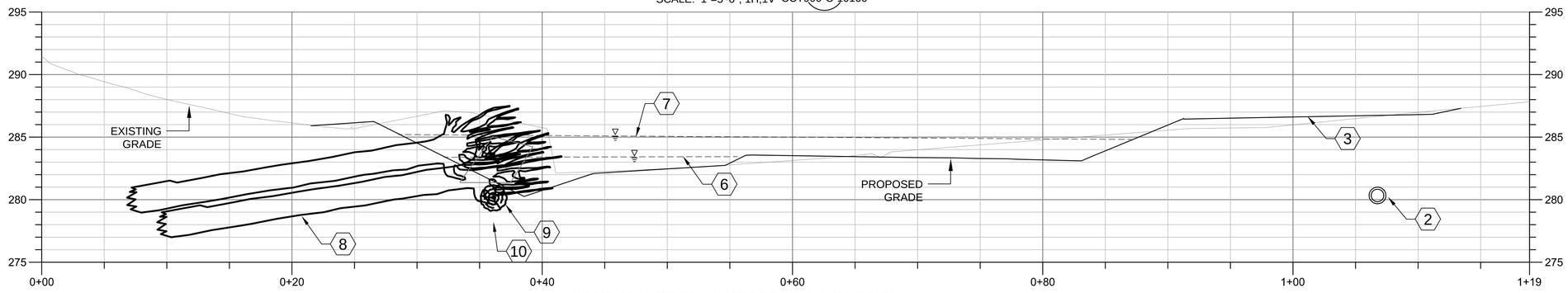
SCALE: 1"=5'-0"; 1H;1V CCT900-C-10166




SPUR LWM LEFT BANK POOL

SECTION E

SCALE: 1"=5'-0"; 1H;1V CCT900-C-10166




SPUR UPSTREAM LWM LEFT BANK POOL

SECTION F

SCALE: 1"=5'-0"; 1H;1V CCT900-C-10166

## KEY NOTES

1. NOT USED
2. PROPOSED SEWER SEE SHEET CCT900-C-10071
3. PROPOSED ACCESS ROAD SEE SHEET CCT900-L-11008
4. PROPOSED RETAINING WALL SEE SHEET CCT900-S-20070
5. PROPOSED HIGH FLOW CONVEYANCE CHANNEL SEE SHEET CCT900-C-20161
6. PROPOSED 2-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
7. PROPOSED 100-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
8. EXCAVATE AND PLACE LARGE WOODY MATERIAL FLOW DEFLECTION STRUCTURE. SEE DETAIL A/CCT900-C-40161 FOR DETAILS
9. PROPOSED FOUNDATION LOG
10. KEY IN TOE ROCK (CLASS A RIPRAP), NOW SHOWN FOR CLARITY. SEE SHEET CCT900-C-40166 FOR ADDITIONAL INFORMATION.

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DECEMBER 2020

NICHOLAS VANBUSKIRK — STATE OF WASHINGTON — 22010 — REGISTERED PROFESSIONAL ENGINEER

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| | |
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| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION SECTIONS 3

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-30162

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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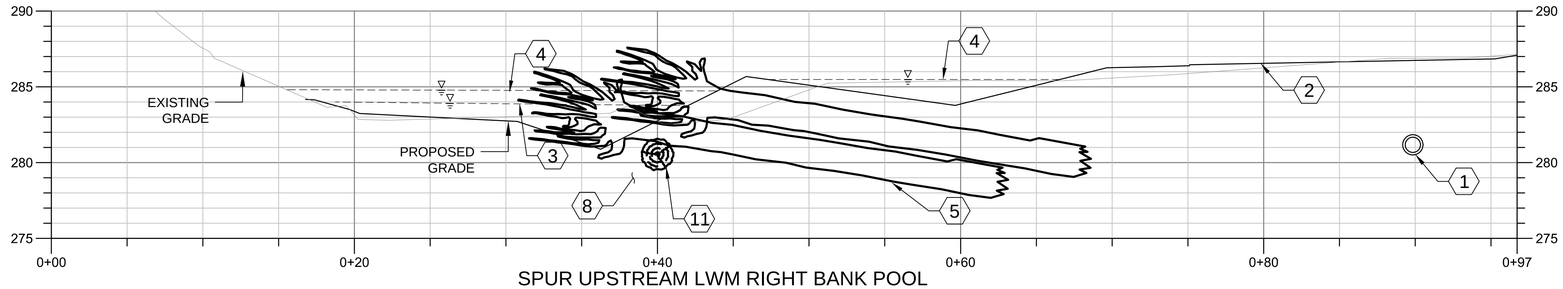
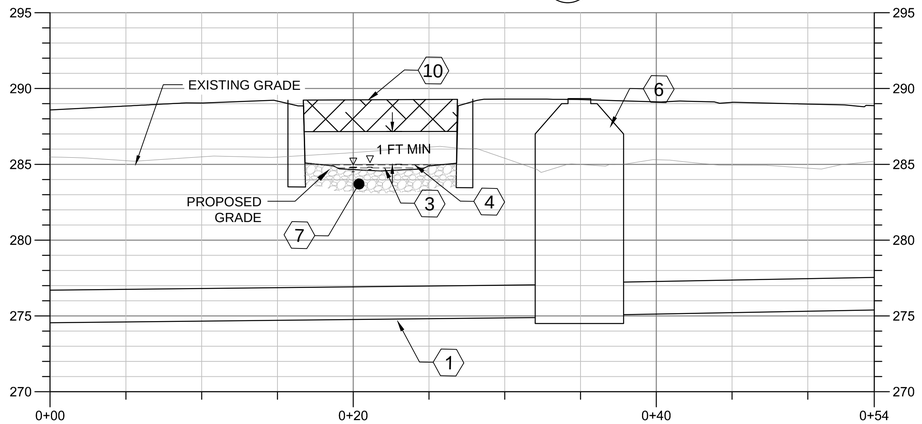


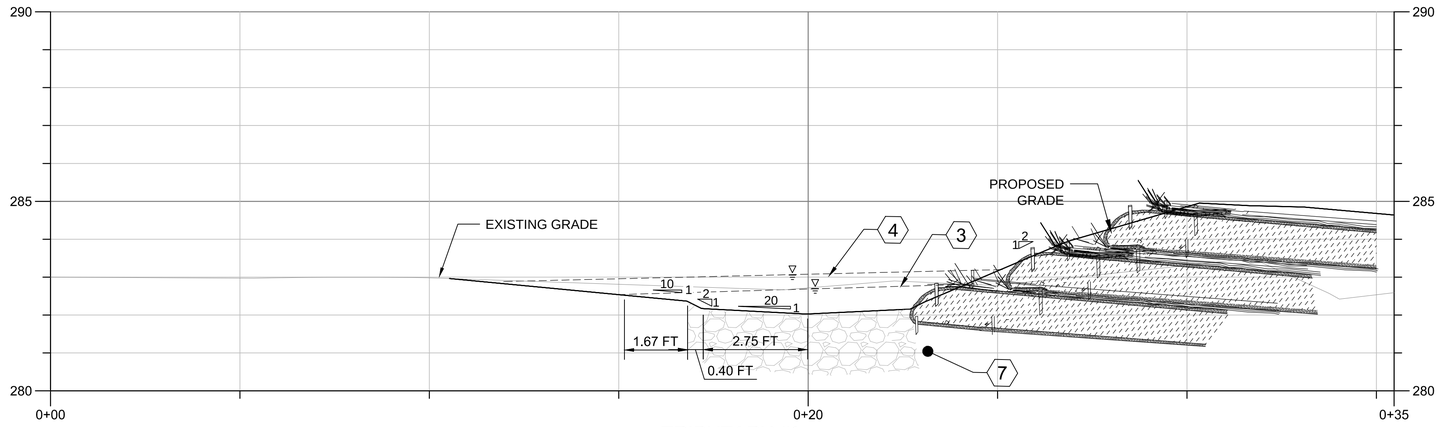

SPUR UPSTREAM LWM RIGHT BANK POOL

SECTION A
SCALE: 1"=5'-0"; 1H:1V CCT900-C-10167




TRIBUTARY #1 UNDER PROPOSED ACCESS ROAD

SECTION B
SCALE: 1"=5'-0"; 1H:1V CCT900-C-10168




TRIBUTARY #1

SECTION C
SCALE: 1"=2'-0"; 1H:1V CCT900-C-10168

## KEY NOTES

1. PROPOSED SEWER SEE SHEET CCT900-C-10071
2. PROPOSED ACCESS ROAD SEE SHEET CCT900-L-11008
3. PROPOSED 2-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
4. PROPOSED 100-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
5. EXCAVATE AND PLACE LARGE WOODY MATERIAL FLOW DEFLECTIONS STRUCTURE. SEE A/ CCT900-C-40161 FOR DETAILS
6. EXISTING SEWER TO REMAIN
7. PLACE 1.5 FEET OF STREAMBED AGGREGATES AT TRIBUTARY #1 (8-INCH COBBLES)
8. PLACE RACKING MATERIAL AT FRONT OF LWM, NOT SHOWN FOR CLARITY
9. KEY IN TOE ROCK (CLASS A RIPRAP), NOW SHOWN FOR CLARITY, SEE SHEET CCT900-C-40166 FOR ADDITIONAL INFORMATION
10. FOR BRIDGE DETAIL SEE SHEET CCT900-C-40070
11. PROPOSED FOUNDATION LOG

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

NICHOLAS VANDUSEN — STATE OF WASHINGTON — 24182 — REGISTERED PROFESSIONAL ENGINEER
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| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
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| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION SECTIONS 4

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-30163
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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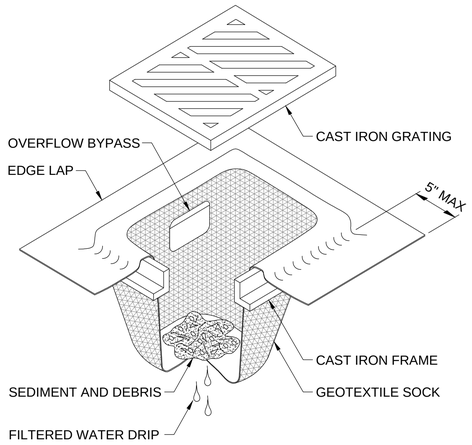
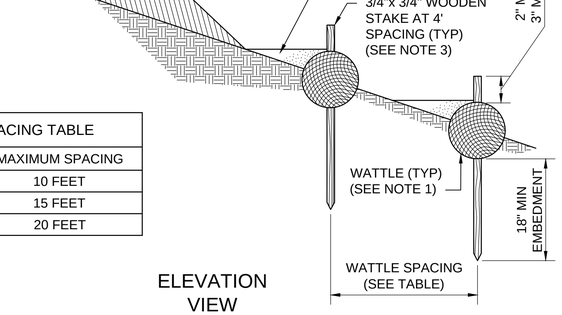



## NOTES:

1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING OR EXCAVATION ACTIVITY.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN 12" OF SEDIMENT ACCUMULATES FROM THE TOP OF THE SEDIMENT TO THE BOTTOM OF THE GRATE.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN. DISPOSE OF SEDIMENT IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
4. DURING THE CONSTRUCTION PERIOD, ADDITIONAL CATCH BASIN INSERTS OTHER THAN THOSE INDICATED ON THE DRAWINGS SHALL BE INSTALLED AS NEEDED TO PREVENT CONSTRUCTION RUNOFF FROM ENTERING UNPROTECTED CATCH BASINS.

## INLET PROTECTION

DETAIL A VAR
SCALE: NTS




| WATTLE SPACING TABLE | |
|---|---|
| SLOPE | MAXIMUM SPACING |
| 1.5:1 | 10 FEET |
| 2:1 | 15 FEET |
| 3:1 | 20 FEET |

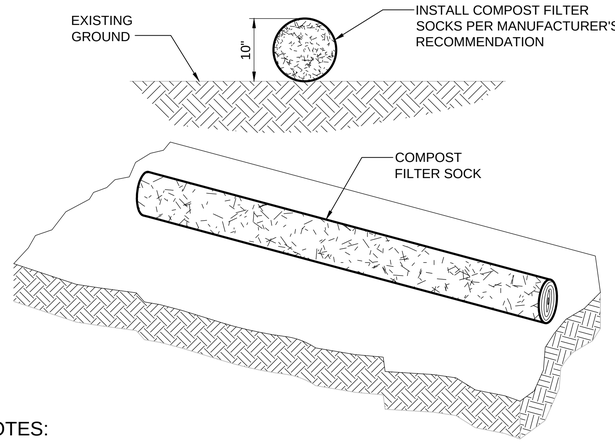
ELEVATION VIEW

## NOTES:

1. INSTALL 12" DIA STRAW WATTLES ALONG CONTOURS.
2. WATTLES SHALL BE INSPECTED REGULARLY AND IMMEDIATELY AFTER EVERY 0.25" RAINFALL, OR BASED ON LOCAL CONDITIONS OR REQUIREMENTS, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
3. PERFORM MAINTENANCE AS NEEDED TO MAINTAIN EFFECTIVENESS.
4. INSTALL WATTLES SNUGLY INTO THE TRENCH. ABUT ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING THE ENDS.
5. PILOT HOLES MAY BE DRIVEN THROUGH THE WATTLE AND INTO THE SOIL, WHEN SOIL CONDITIONS REQUIRE.

## STRAW WATTLES

DETAIL D VAR
SCALE: NTS




## NOTES:

1. 10" DIA COMPOST FILTER SOCKS SHALL BE BIOSOCK™, ENVIROTECH BIOSOLUTIONS OR APPROVED EQUAL.
2. STAKE AND ANCHOR FILTER SOCK ON SLOPES PER MANUFACTURER'S RECOMMENDATIONS.
3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED OR DIRECTED BY THE OWNER'S REPRESENTATIVE.
4. IF THE COMPOST FILTER SOCK BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE COMPOST FILTER SOCK MUST BE REMOVED, CLEANED, AND REPLACED.
5. DISPOSE OF SILT, SEDIMENT, AND DEBRIS OFF-SITE AFTER EACH EVENT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

## COMPOST FILTER SOCK

DETAIL B VAR
SCALE: NTS

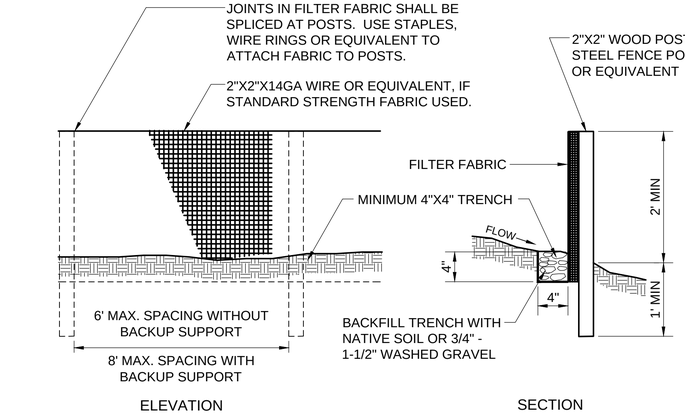



## NOTES:

1. DRIVEWAY SHALL MEET THE REQUIREMENTS OF THE PERMITTING AGENCY.
2. IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE PAD.

## STABILIZED CONSTRION ENTRANCE

DETAIL E VAR
SCALE: NTS




## SILT FENCE NOTES:

1. MAXIMIZE DETENTION OF STORMWATER BY PLACING AS FAR AWAY FROM THE TOP OF THE SLOPE AS POSSIBLE WITHOUT ENCROACHING IN SENSITIVE AREAS OR OUTSIDE OF THE CLEARING BOUNDARIES.
2. INSTALL SILT FENCING ALONG CONTOURS WHENEVER POSSIBLE.
3. INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UP-SLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE
4. THE FABRIC FENCE SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH SIDES SECURELY FASTENED TO THE POST, OR OVERLAP 2"x2" POST.
5. THE FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS WHERE FEASIBLE. THE FENCE POST SHALL BE SPACED A MAXIMUM OF 6-FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12-INCHES.
6. THE FABRIC FENCE SHALL HAVE A MINIMUM VERTICAL BURIAL OF 6-INCHES. ALL EXCAVATED MATERIAL FROM FILTER FABRIC FENCE INSTALLATION SHALL BE BACKFILLED AND COMPACTED, ALONG THE ENTIRE DISTURBED AREA.
7. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1-INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND INTO THE TRENCH MORE THAN 36-INCHES ABOVE THE ORIGINAL GROUND SURFACE.
8. FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
9. FABRIC FENCES SHALL BE INSPECTED BY CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY BY THE CONTRACTOR.

## SILT FENCE

DETAIL C VAR
SCALE: NTS

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|
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DECEMBER 2020

STATE OF WASHINGTON · KURT WILLIAM JACOBSEN · 46074 · REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
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| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TESC DETAILS 1

| | |
|---|---|
| DATE: | DECEMBER 2020 |
| DRAWING NO: | CCT900-C-40001 |
| SHT NO / TOTAL | # |
| REV NO: | |

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-11:55:04am By kinseym2
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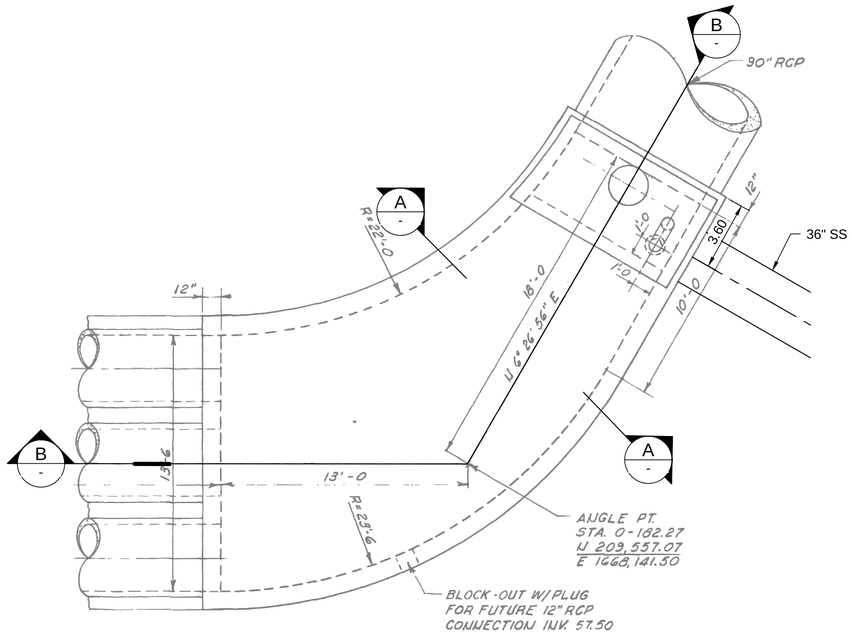
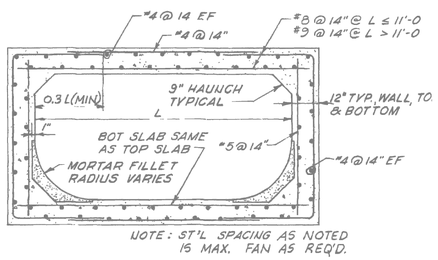
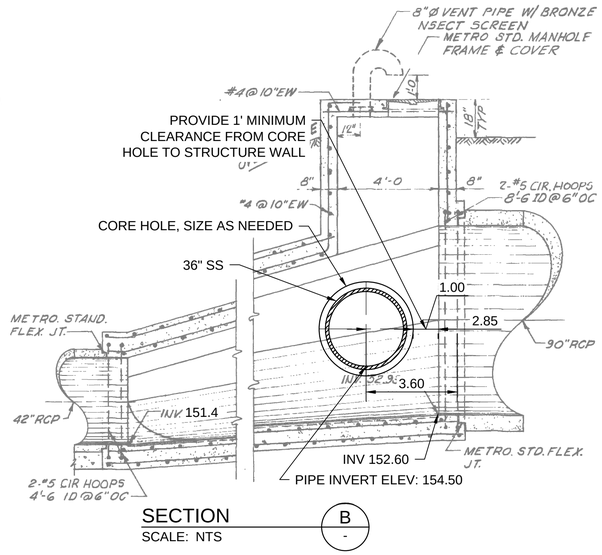



PLAN



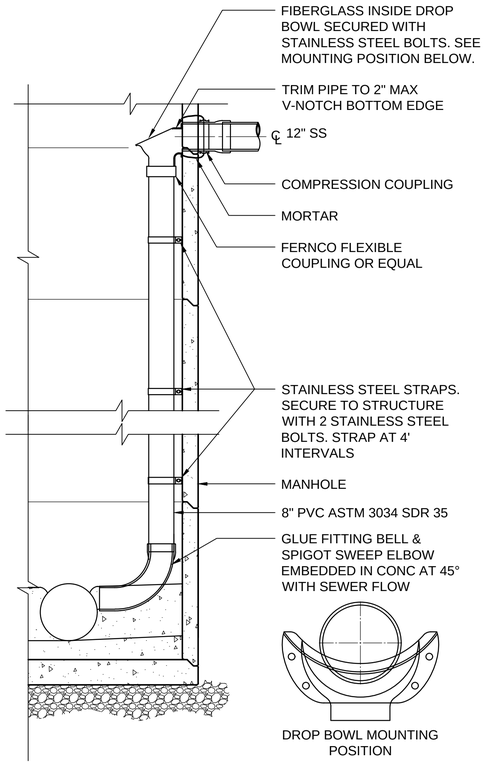

SECTION
SCALE: NTS
A
-




SECTION
SCALE: NTS
B
-

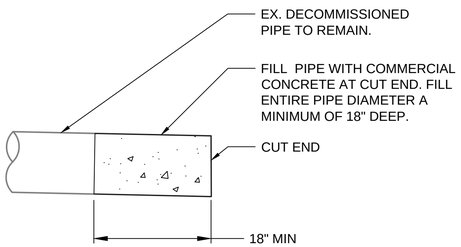
## EXISTING EAST SIDE INTERCEPTOR STRANSITION STRUCTURE NEW CONNECTION LOCATION

DETAIL
SCALE: NTS
A
VAR




## INSIDE DROP CONNECTION CROP BOWL MOUNTING POSITION

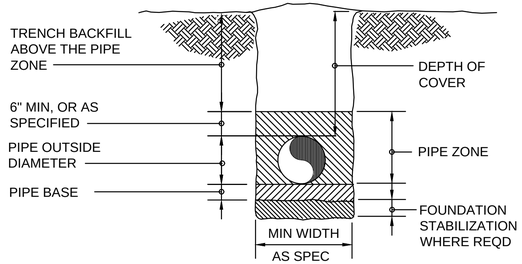
DETAIL
SCALE: NTS
B
VAR




NOTES:
1. DECOMMISSION PIPES AT LOCATIONS SHOWN ON THE DECOMMISSIONING PLANS

## SEWER PIPE DECOMMISSIONING DETAIL

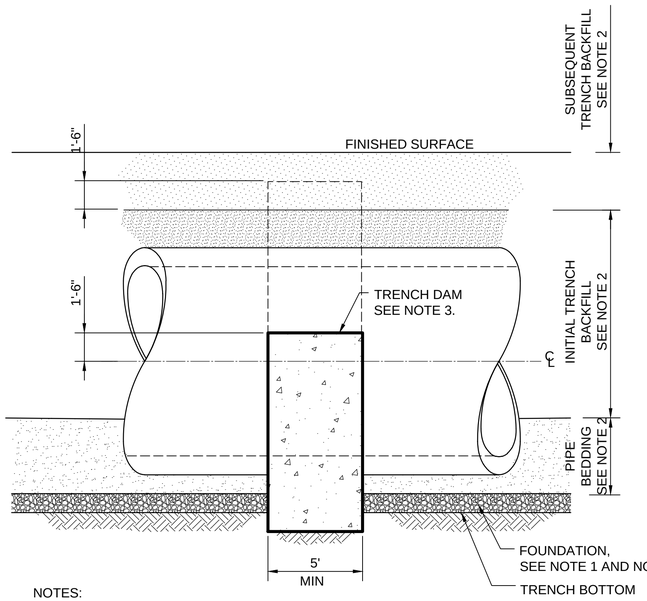
DETAIL
SCALE: NTS
D
VAR




NOTE TO DESIGNER: THE TRENCH ZONE BACKFILL AND THE FOUNDATION STABILIZATION ARE SPECIFIED IN SECTION 31 23 33 TRENCHING AND BACKFILL. THE PIPE ZONE AND PIPE BASE ARE SPECIFIED IN THE SECTION FOR THE PIPE TO BE USED. THE MATERIAL AND WORKMANSHIP SPECIFICATIONS SHOULD SPECIFY THE QUALITY, DIMENSIONS AND FINAL DENSITIES AS APPLICABLE.

## TYPICAL TRENCH

DETAIL
SCALE: NTS
C
VAR




NOTES:

1. FOUNDATION THICKNESS VARIES
2. SEE DET C/CCT900-C-40050 ND FOR REQUIREMENTS FOR FOUNDATION, PIPE BEDDING, INITIAL TRENCH BACKFILL, AND SUBSEQUENT TRENCH BACKFILL.

## TRENCH DAM

DETAIL
SCALE: NTS
E
VAR

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON — WILLIAM JACOBSEN — 46074 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# PIPE DETAILS 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40050
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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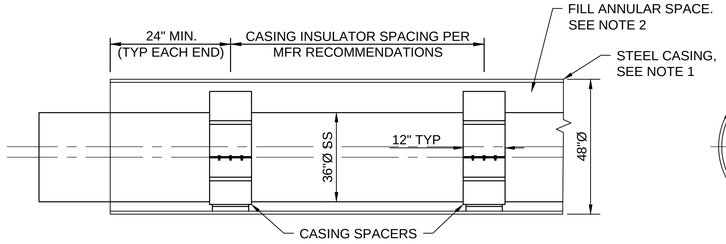
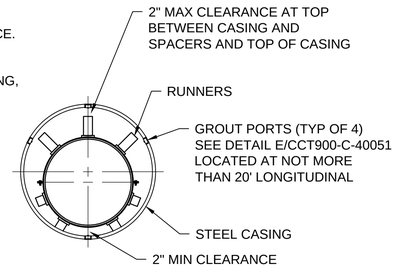


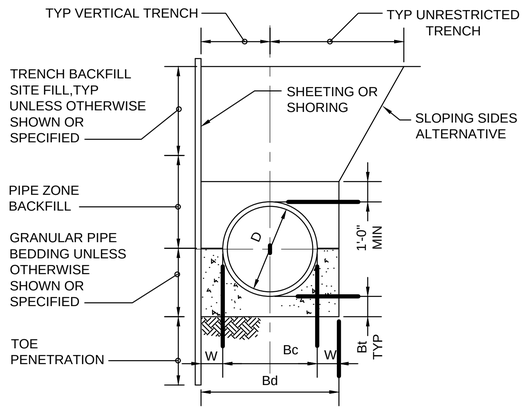




NOTES:

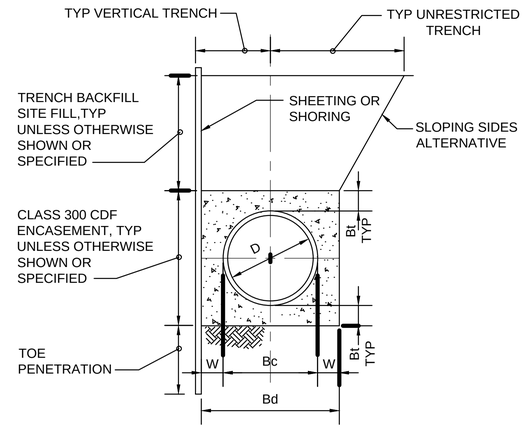
1. SEE SPECIFICATION SECTION 33 05 07.35 FOR CASING REQUIREMENTS.
2. SEE SPECIFICATION SECTION 33 05 07 FOR GROUTING MATERIAL REQUIREMENTS. BEGIN AT RECEIVING END OF THE DP AND FILL BACK TOWARD THE LAUNCHING END. AIR VENT AND FILLING POINTS SHALL BE REMOVED PRIOR TO GROUT PLUGS BEING INSTALLED.

## STEEL CASING

DETAIL A
SCALE: NTS VAR




## GRANULAR BEDDING




## CDF ENCASEMENT

NOTES:

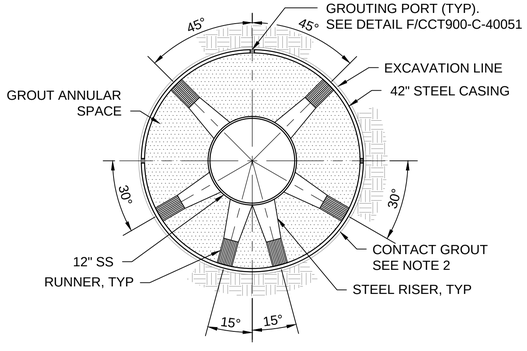
1. PIPE TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH TRENCH SCHEMATIC (A) UNLESS SHOWN DRAWINGS.
2. TRENCH DIMENSIONS AND BACKFILL THICKNESS REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

| D (IN) | W (MIN) (IN) | Bd (MAX) (IN) | Bt (MIN) (IN) |
|---|---|---|---|
| 4 - 8 | 6 | Bc + 24 | 6 |
| 10 - 24 | 6 | Bc + 24 | 6 |
| 27 - 60 | 12 | Bc + 36 | 12 |
| OVER 60 | 18 | Bc + 42 | 12 |

3. SEE SPECIFICATION SECTIONS 31 62 16.13 SHEET STEEL PILES, 31 05 00 EARTHWORK, AND 31 23 33 TRENCHING AND BACKFILLING REQUIREMENTS.
4. CONTRACTOR SHALL PREVENT BUOYANCY OF PIPE. MULTIPLE STAGE PLACEMENT OF CDF OR CONCRETE BEDDING MAY BE REQUIRED.

## TRENCH SCHEMATIC FOR 42" AND SMALLER PIPE

DETAIL B
SCALE: NTS VAR

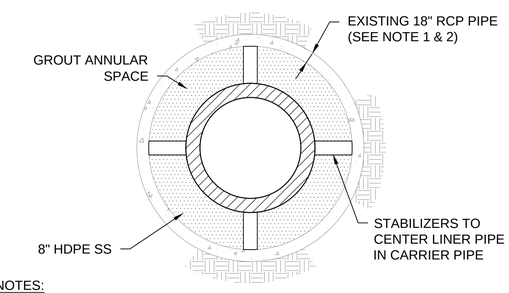



NOTES:

1. THE 12" SANITARY PIPE SHALL BE POSITIONED AND CENTER WITHIN THE STEEL CASING PIPE USING SPACERS IN ACCORDANCE WITH THE PIPE MANUFACTURER AND SPECIFICATION SECTION 33 03 33.
2. CONTACT GROUT SHALL BE USED TO FILL ANY VOIDS OUTSIDE THE CASING PIPE CREATED BY OVER EXCAVATION DURING INSTALLATION. CONTACT GROUTING SHALL BE PERFORMED AS SPECIFIED IN SPECIFICATION SECTION 33 05 07.36.

## MICRO-TUNNEL CASING PIPE

DETAIL C
SCALE: NTS VAR

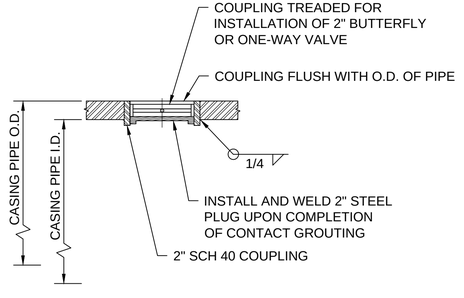



NOTES:

1. EXISTING INSIDE DIAMETER OF THE HOST PIPE MAY HAVE AN IRREGULAR SHAPE (NON-CIRCULAR) AS A RESULT OF PIPE DEFORMATION.
2. CONTRACTOR TO PROOF HOST PIPE PER SECTION 33 05 33 PRIOR TO FULL MOBILIZATION AND PROCUREMENT OF LINER PIPE.
3. CONTRACTOR SHALL REMOVE INTRUDING PORTIONS OF SERVICE LATERAL CONNECTIONS THAT INTERFERE WITH SLIPLINING.
4. THE CONTRACTOR SHALL PREVENT THE LINER PIPE FROM FLOATING DURING PLACEMENT OF THE GROUT PER SECTION 33 05 07. A BUOYANCY CALCULATION BASED ON THE GROUT DENSITY OF APPROVED MIXTURE(S) SHALL BE SUBMITTED PRIOR TO THE START OF THE GROUTING OPERATION. AS A MINIMUM, THE CONTRACTOR SHALL FLOOD THE PIPE WITH WATER TO PREVENT FLOATATION AND/OR PLACE GROUT IN MULTIPLE LIFTS.

## SLIPLINE CROSS SECTION

DETAIL D
SCALE: NTS VAR




## LUBRICATION/CONTACT GROUT PORT

DETAIL E
SCALE: NTS VAR

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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| DESIGNED/DRAWN: N. WHIRTY | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# PIPE DETAILS 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40051
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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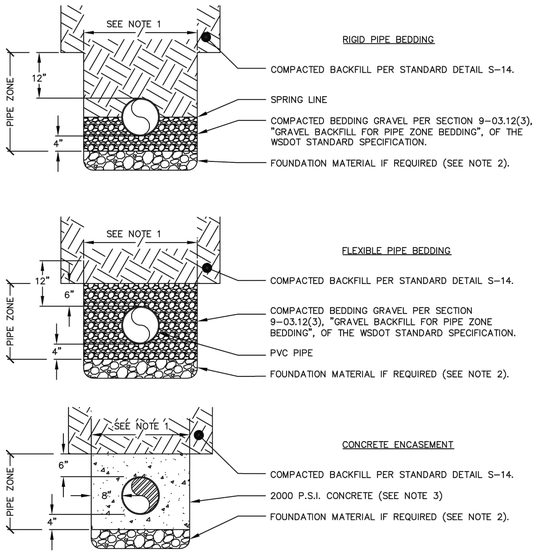
PLOTTED: Jul 29, 2020-11:56:09am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

REFERENCE 0 1"

## GENERAL NOTES

1. FOR USE ON SEWERS 8-INCH IN DIAMETER ONLY.



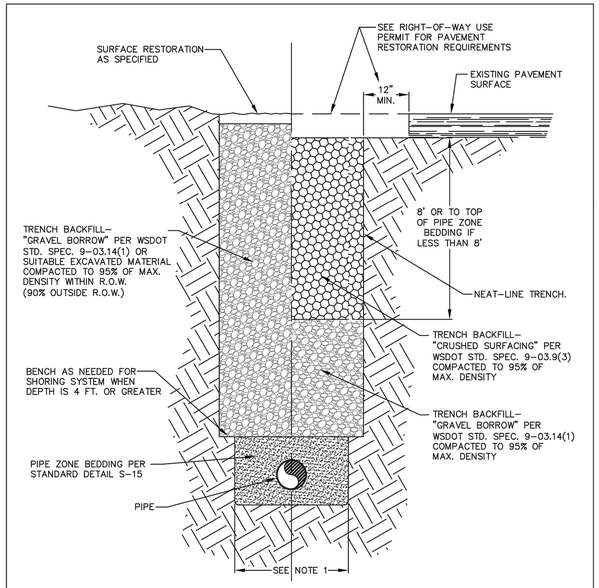

NOTES:
1. MAXIMUM WIDTH OF TRENCH AT TOP OF PIPE ZONE:
   - 36" FOR PIPE UP TO AND INCLUDING 18" NOMINAL DIAMETER.
   - NOMINAL DIAMETER PLUS 18" FOR PIPE LARGER THAN 18" NOMINAL DIAMETER.
2. EXCAVATE UNSTABLE MATERIAL DOWN TO FIRM SOIL AND REPLACE WITH FOUNDATION MATERIAL PER SECTION 9-03.9(17), FOUNDATION MATERIAL CLASS A AND CLASS B OF THE WSDOT STANDARD SPCIFICATIONS. STABILIZATION FABRIC MAYBE RQUIRED DEPENDIING ON CONDTIIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANCHORING PIPE TO PREVENT FLOTATION DURING CONCRETE PLACEMENT.
4. COMPACTED CRUSHED SURFACING PER SECTION 9-03.9(3), "CRUSHED SURFACING", OF THE WSDOT STANDARD SPECIFICATIONS CAN ALSO BE USED AS BEDDING GRAVEL.

City of Bellevue — SEWER UTILITIES

TITLE: PIPE ZONE BEDDING

JANUARY 2020 — NO SCALE — NO. S-15

DETAIL A VAR
SCALE: NTS




UNPAVED AREAS — PAVED AREAS

NOTES:
1. MAXIMUM WIDTH OF TRENCH AT TOP OF PIPE ZONE:
   - 36" FOR PIPE UP TO AND INCLUDING 18" NOMINAL DIAMETER.
   - NOMINAL DIAMETER PLUS 18" FOR PIPE LARGER THAN 18" NOMINAL DIAMETER.
2. EXCAVATIONS OVER 4' DEEP SHALL COMPLY WITH THE SAFETY STANDARD DESCRIBED IN CHAPTER 296-155 - PART N OF THE WAC.
3. SEE "BEDDING, BACKFILL AND COMPACTION" IN CHAPTER D8 OF THE ENGINEERING STANDARDS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
4. RECYCLED CONCRETE RUBBLE SHALL NOT BE USED AS BEDDING IN THE PIPE ZONE, AS TRENCH BACKFILL OR AS BACKFILL ABOVE THE PROJECTED NEAT-LINE TRENCH ABOVE A PIPE OR STRUCTURE.

City of Bellevue — SEWER UTILITIES

TITLE: TYPICAL TRENCH DETAIL

JANUARY 2020 — NO SCALE — NO. S-14

DETAIL B VAR
SCALE: NTS

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

LEE WILLIAM JACOBSEN — STATE OF WASHINGTON — 46674 — REGISTERED PROFESSIONAL ENGINEER

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| DESIGNED/DRAWN: N. WHIRTY | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# PIPE DETAILS 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40052
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-11:56:46am By kinseym2
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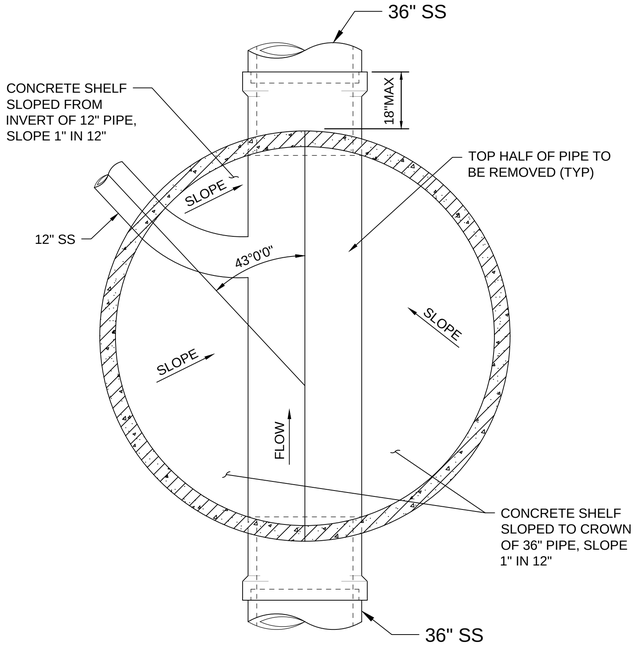
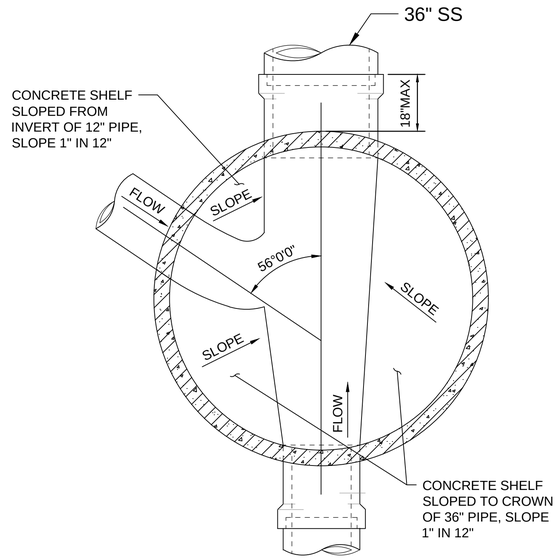



RE*CAOL-R33-05
120" MAINTENANCE HOLEBASE PLAN

DETAIL A
SCALE: NTS CCT900-C-10040




RE*COAL-R33-06
96" MAINTENANCE HOLE BASE PLAN

DETAIL B
SCALE: NTS CCT900-C-10081

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON BRENT WILLIAM JACOBSEN REGISTERED PROFESSIONAL ENGINEER
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| DESIGNED/DRAWN: N. WHIRTY | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# PIPE DETAILS 4

DATE: DECEMBER 2020
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SHT NO / TOTAL #
REV NO:

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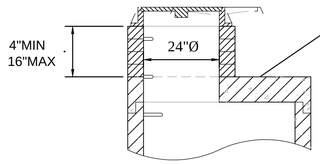
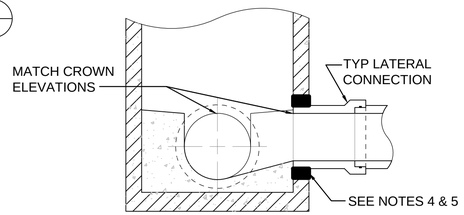



TYPICAL REDUCING SLAB

SCALE: 1/2"= 1'-0"




SECTION 1

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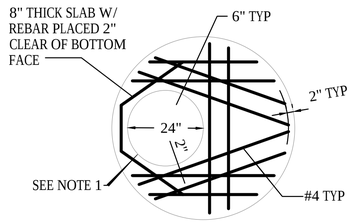
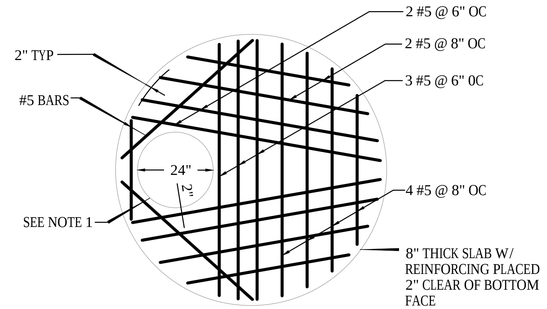



48" TO 24" REDUCING SLAB

DETAIL B VAR

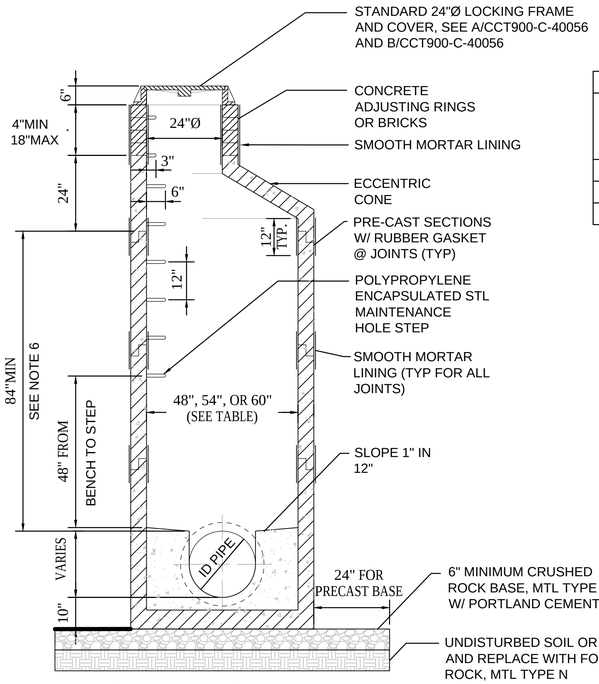
SCALE: 1/2"=1'-0"




72" TO 24" REDUCING SLAB

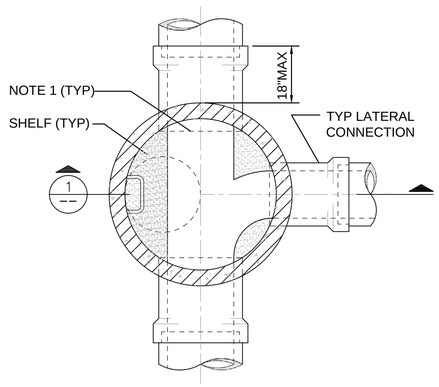
DETAIL C VAR

SCALE: 1/2"=1'-0"




8" THRU 21" DIA PIPE

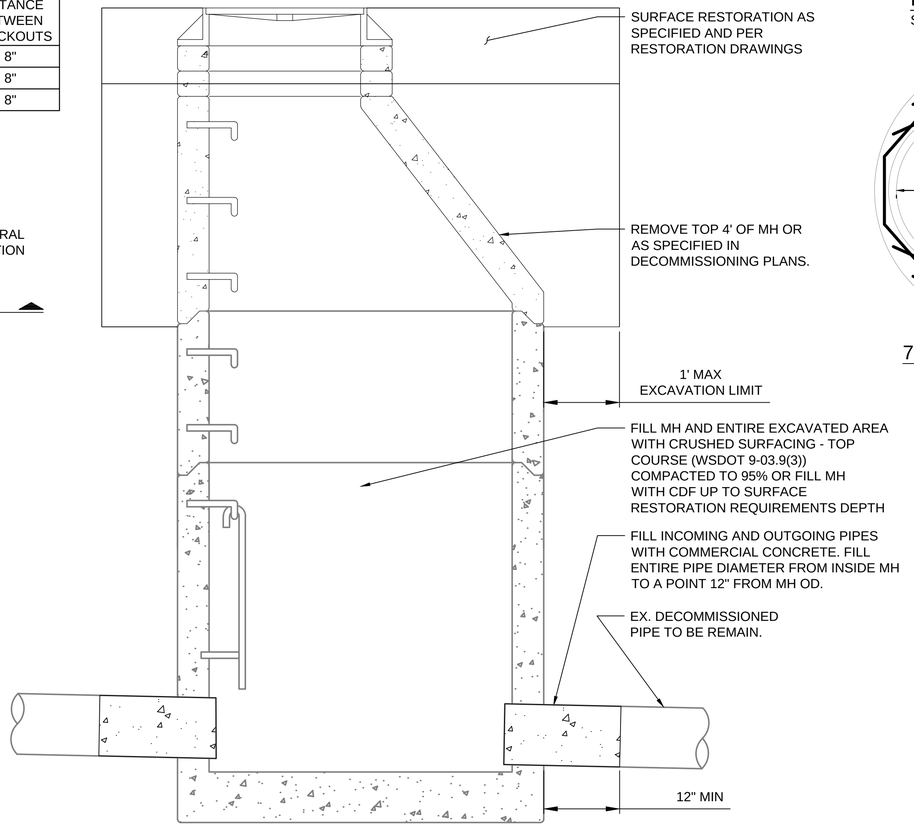
| MAINTENANCE DIMENSION TABLE | | | | |
|---|---|---|---|---|
| DIAMETER | MIN. WALL THICKNESS | MIN. BASE THICKNESS | MAXIMUM KNOCKOUT SIZE | MINIMUM DISTANCE BETWEEN KNOCKOUTS |
| 48" | 4" | 6" | 36" | 8" |
| 54" | 4.5" | 8" | 42" | 8" |
| 60" | 5" | 8" | 48" | 8" |

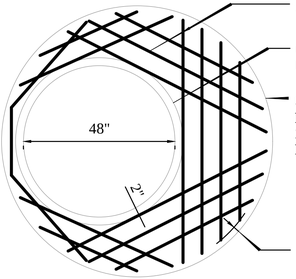



BASE – PLAN

TYPICAL CONNECTION DETAIL

SCALE: 1/2"= 1'-0"




72" TO 48" REDUCING SLAB

DETAIL D VAR

SCALE: 1/2"=1'-0"

## NOTES:

1. TOP HALF OF PIPE TO BE REMOVED TO CONTOUR OF INSIDE OF MAINTENANCE HOLE. BROKEN EDGES TO BE PLASTERED SMOOTH WITH MORTAR. TYPICAL ALL MAINTENANCE HOLES.
2. PRECAST MAINTENANCE HOLE SECTIONS SHALL CONFORM TO SPECIFICATION 33 05 61, EXCEPT WHERE OTHERWISE NOTED.
3. ALL MAINTENANCE HOLE RISERS JOINTS SHALL BE RUBBER GASKET TYPE, CONFORMING TO SPECIFICATION 33 05 61. JOINTS AT BASE, CONE AND ADJUSTING RINGS SHALL BE SEALED PER SPECIFICATION SECTION 33 05 61.
4. PENETRATIONS OF EXISTING MAINTENANCE HOLES SHALL BE MADE BY CORE DRILLING AND USE OF A FLEXIBLE WATERTIGHT RUBBER BOOT, PER SPECIFICATION 33 05 61.
5. ALL CONNECTIONS OF NEW MAINTENANCE HOLES SHALL BE INSTALLED WITH A FLEXIBLE WATERTIGHT RUBBER BOOT PER SPECIFICATION 33 05 61.
6. ELIMINATE 2FT BY 4FT PRECAST CONE SECTION ON MAINTENANCE HOLES LESS THAN 11FT DEEP TO CROWN OF SEWER. BEFORE REDUCING 7FT DEPTH OF A 4FT OR 6FT CIRCULAR MAINTENANCE HOLE, USE REDUCING SLAB FOR SUPPORTING ADJUSTING BLOCKS.

TYPICAL TYPE-A PRECAST MAINTENANCE HOLE

DETAIL A VAR

SCALE: 1/2"=1'-0"

NOTES:

1. FOR MHS NOTED TO BE REMOVED, EITHER NOTED AS CONE OR FULL, THIS DETAIL APPLIES IN FULL.
2. FOR MHS NOTED TO BE PLUGGED, ONLY FILL INCOMING AND OUTGOING PIPES WITH COMMERCIAL CONCRETE, MINIMUM 12" DEEP BEYOND MH OD. LEAVE RING AND COVER IN PLACE.

SEWER AND MAINTENANCE HOLE DECOMMISSIONING

DETAIL E VAR

SCALE: NTS

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell

AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

WILLIAM JACOBSEN — STATE OF WASHINGTON — 46074 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MAINTENANCE HOLE DETAILS 1

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-40054

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-11:57:50am By kinseym2
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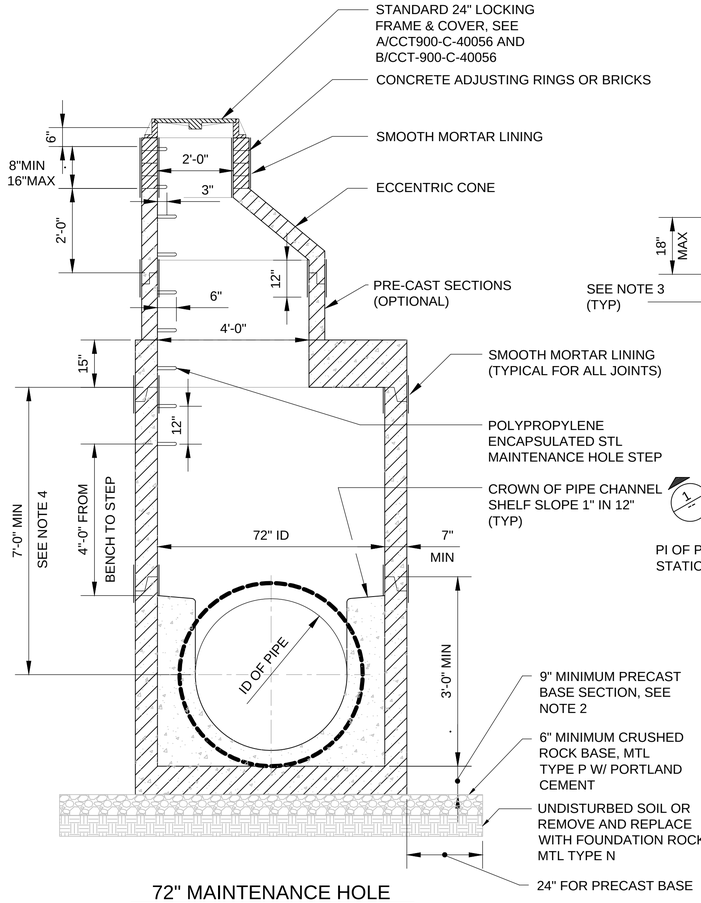
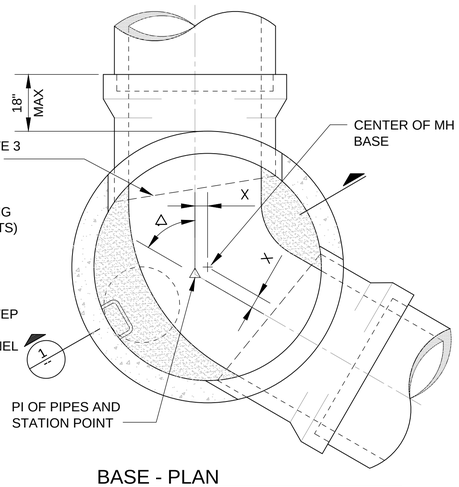


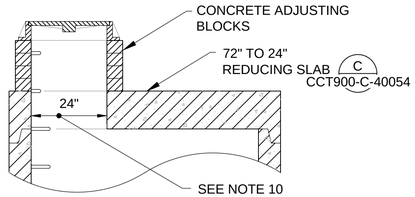

## 72" MAINTENANCE HOLE

| DEFLECTION ANGLE (△) | OFFSET X - 36",42",48" ID | |
|---|---|---|
| | DIP | RCP |
| LESS THAN 35° | 0" | 0" |
| 35° TO < 55° | 3" | 2" |
| 55° TO < 75° | 6" | 4" |
| 75° & LARGER | 10" | 8" |



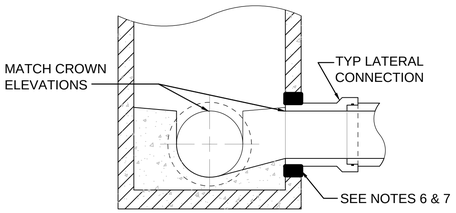

## BASE - PLAN

SCALE: 1/2"= 1'-0"




## TYPICAL REDUCING SLAB

SCALE: 1/2"= 1'-0"




## SECTION

SCALE: 1/2"= 1'-0"

1 --

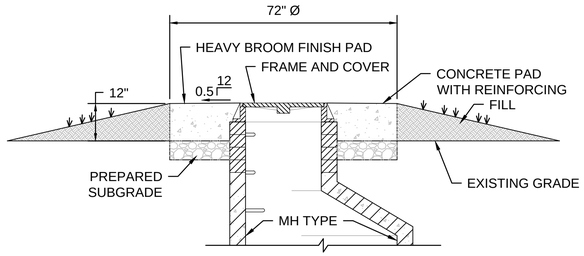
NOTES:

1. REFER TO SPECIFICATION SECTION 33 05 61 UTILITY STRUCTURES FOR MAINTENANCE HOLE REQUIREMENTS.
2. BASE REINFORCING: 0.35 SQUARE INCHES/LINEAR FOOT IN BOTH DIRECTIONS. MINIMUM YIELD STRENGTH = 60,000 PSI.
3. TOP HALF OF PIPE TO BE REMOVED TO CONTOUR OF INSIDE OF MAINTENANCE HOLE. BROKEN EDGES TO BE PLASTERED SMOOTH WITH MORTAR. TYPICAL ALL MAINTENANCE HOLES.
4. PRECAST MAINTENANCE HOLE SECTIONS SHALL CONFORM TO SPECIFICATION 33 05 61, EXCEPT WHERE OTHERWISE NOTED.
5. ALL MAINTENANCE HOLE RISERS JOINTS SHALL BE RUBBER GASKET TYPE, CONFORMING TO SPECIFICATION 33 05 61. JOINTS AT BASE, CONE AND ADJUSTING RINGS SHALL BE SEALED PER SPECIFICATION SECTION 33 05 61.
6. PENETRATIONS OF EXISTING MAINTENANCE HOLES SHALL BE MADE BY CORE DRILLING AND USE OF A FLEXIBLE WATERTIGHT RUBBER BOOT, PER SPECIFICATION 33 05 61.
7. ALL CONNECTIONS OF NEW MAINTENANCE HOLES SHALL BE INSTALLED WITH A FLEXIBLE WATERTIGHT RUBBER BOOT PER SPECIFICATION 33 05 61.
8. ELIMINATE 2FT BY 4FT PRECAST CONE SECTION ON MAINTENANCE HOLES LESS THAN 11FT DEEP TO CROWN OF SEWER. BEFORE REDUCING 7FT DEPTH OF A 4FT OR 6FT CIRCULAR MAINTENANCE HOLE, USE REDUCING SLAB FOR SUPPORTING ADJUSTING BLOCKS.
9. SHALLOW MAINTENANCE HOLES REQUIRING THE MAINTENANCE HOLE FRAME TO BE PLACED DIRECTLY ON THE REDUCING SLAB, THIS DIMENSION SHALL BE 24"Ø.
10. BELLS SHALL BE CAST INTO PRECAST MAINTENANCE HOLE BASE BY MAINTENANCE HOLE MANUFACTURER.

## TYPICAL TYPE-B PRECAST MAINTENANCE HOLE

DETAIL A VAR

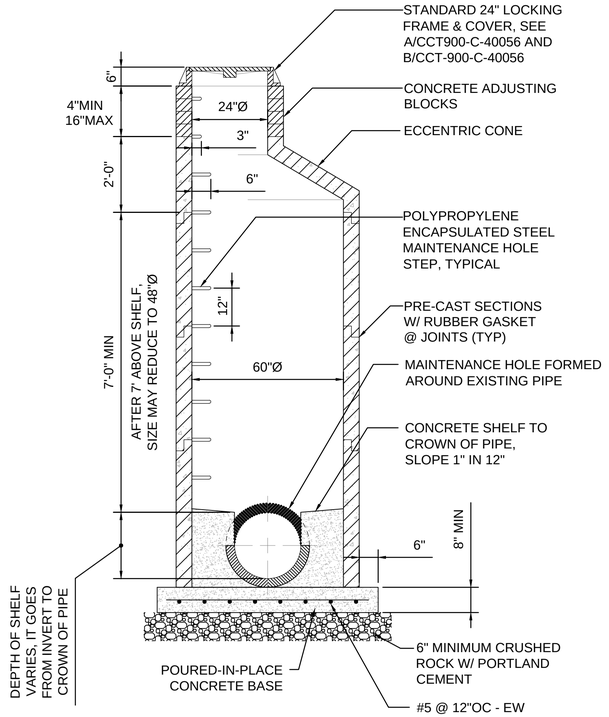
SCALE: 1/2"=1'-0"




## MAINTENANCE HOLE AND PAD

DETAIL A VAR

SCALE: 1/2"=1'-0"




NOTES:

1. TOP HALF OF PIPE TO BE REMOVED TO CONTOUR OF INSIDE OF MAINTENANCE HOLE. BROKEN EDGES TO BE PLASTERED SMOOTH WITH MORTAR.
2. PRECAST MAINTENANCE HOLE SECTIONS SHALL CONFORM TO ASTM C-478 AND THE SPECIFICATIONS, EXCEPT WHERE OTHERWISE NOTED. CONTRACTOR SHALL SUBMIT DESIGN DRAWINGS FOR APPROVAL.
3. ALL MAINTENANCE HOLE RISERS JOINTS SHALL BE RUBBER GASKET TYPE, CONFORMING TO ASTM C-443. DETAILS OF JOINTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. JOINTS AT BASE, CONE AND ADJUSTING RINGS SHALL BE SEALED WITH MASTIC PER SPECIFICATION SECTION 07 92 00.
4. PENETRATIONS SHALL BE MADE BY CORE DRILLING AND USE OF A "KOR-N- SEAL" FLEXIBLE WATERTIGHT RUBBER BOOT.
5. ALL CONNECTIONS OF NEW MAINTENANCE HOLES SHALL BE INSTALLED WITH A "KOR-N-SEAL" FLEXIBLE WATERTIGHT RUBBER BOOT.
6. ALL JOINTS EXCEPT PIPE JOINTS, SHALL BE MORTAR FILLED.

## TYPICAL TYPE-B SADDLE MAINTENANCE HOLE

DETAIL C CCT900-C-1080

SCALE: NTS

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: K. TOLLE | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MAINTENANCE HOLE DETAILS 2

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-40055

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-11:58:15am By kinseym2
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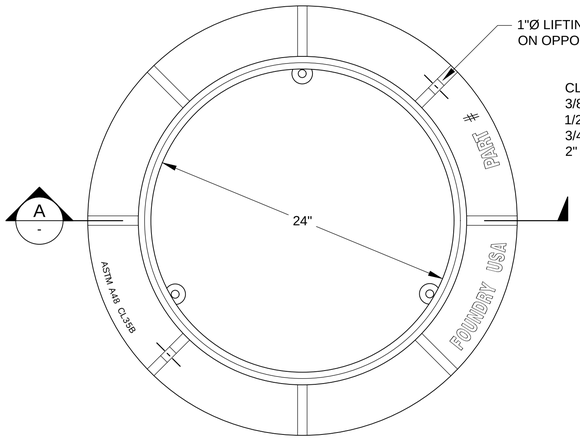


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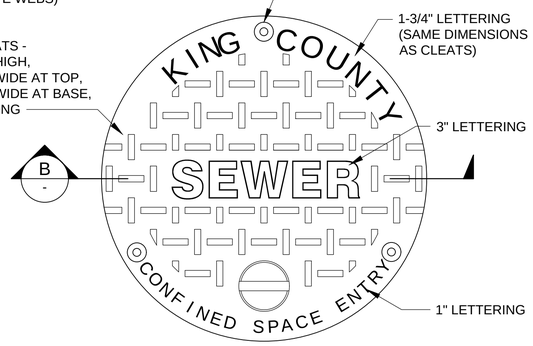
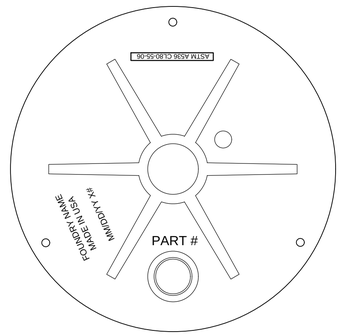
DETAIL 1 — SCALE: NTS



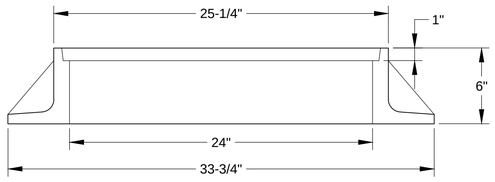

COVER

DETAIL 2 — SCALE: NTS



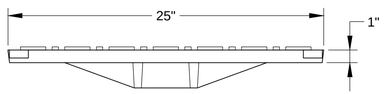

UNDERSIDE OF COVER

DETAIL 3 — SCALE: NTS



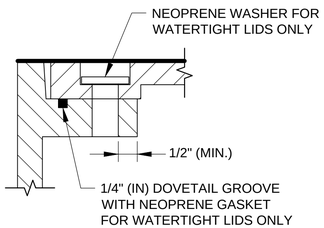

FRAME

SECTION A — SCALE: NTS




COVER

SECTION B — SCALE: NTS

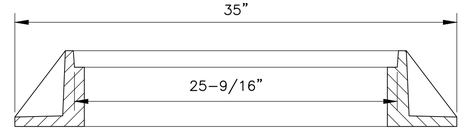



BOLT-DOWN/WATERTIGHT

DETAIL 4 — SCALE: NTS

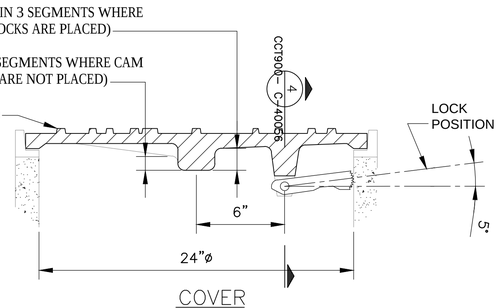
STANDARD 24" DIAMETER BOLT-DOWN FRAME AND COVER

DETAIL A VAR — SCALE: NTS



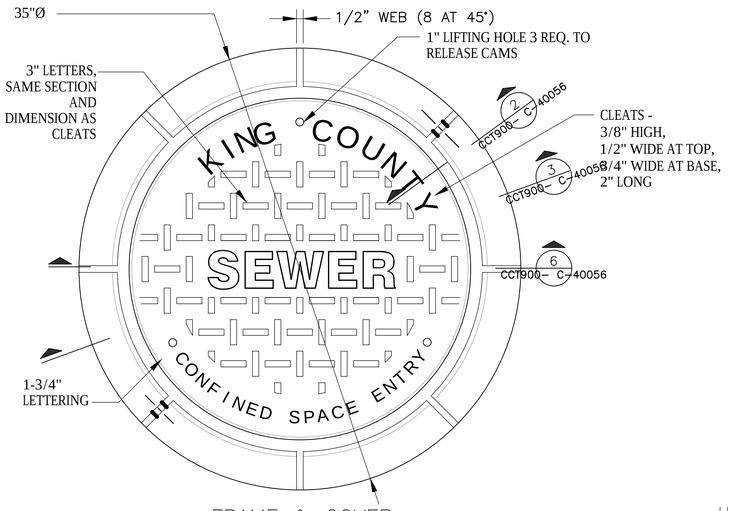

FRAME

SECTION 6 — SCALE: NONE — CCT900– C-40056



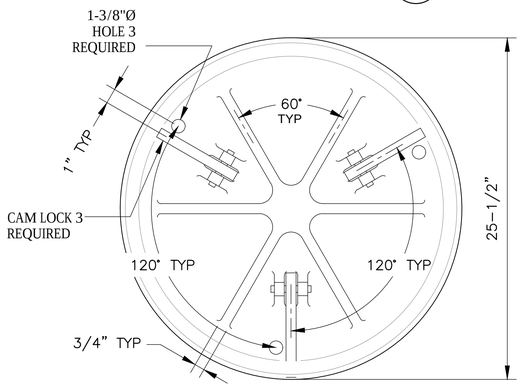

COVER

SECTION 3 — SCALE: NONE — CCT900– C-40056



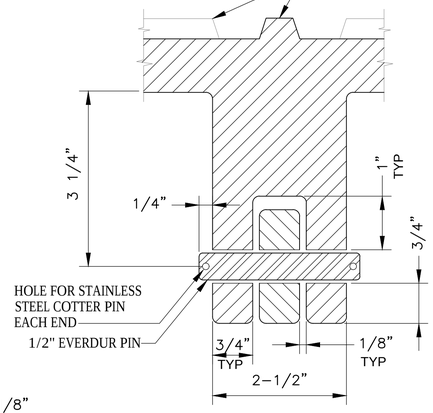

FRAME & COVER

PLAN A — SCALE: NONE



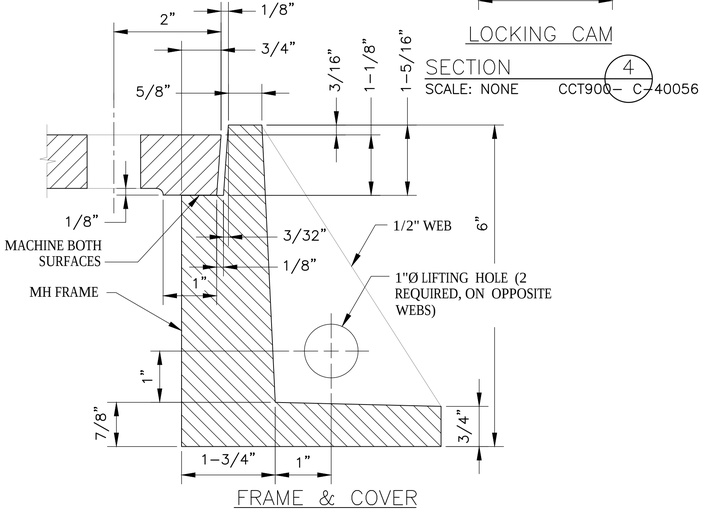

UNDERSIDE OF COVER

PLAN B — SCALE: NONE




LOCKING CAM

SECTION 4 — SCALE: NONE — CCT900– C-40056




FRAME & COVER

SECTION 2 — SCALE: NONE — CCT900– C-40056

STANDARD 24" DIAMETER CAM-LOCK FRAME AND COVER

DETAIL B VAR — SCALE: NTS

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

BRUCE WILLIAM JACOBSEN — STATE OF WASHINGTON — 46074 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: N. WHIRTY | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

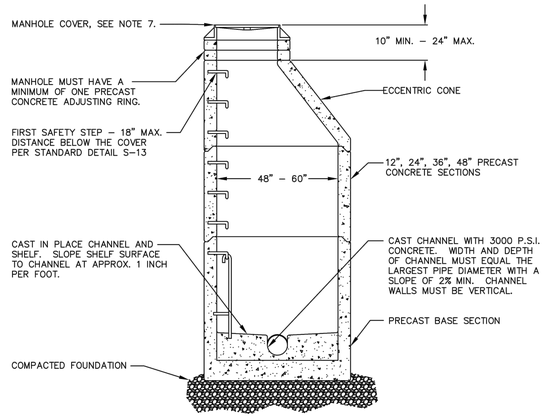
# MAINTENANCE HOLE DETAILS 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40056
SHT NO / TOTAL #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwiseworkingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\CCT900-C-40056.dwg | Layout: CCT900-C-40056
PLOTTED: Jul 29, 2020-11:58:43am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

## GENERAL NOTES

1. FOR USE ON SEWER 8-INCHES IN DIAMETER ONLY.




GENERAL NOTES – APPLIES TO ALL MANHOLES:

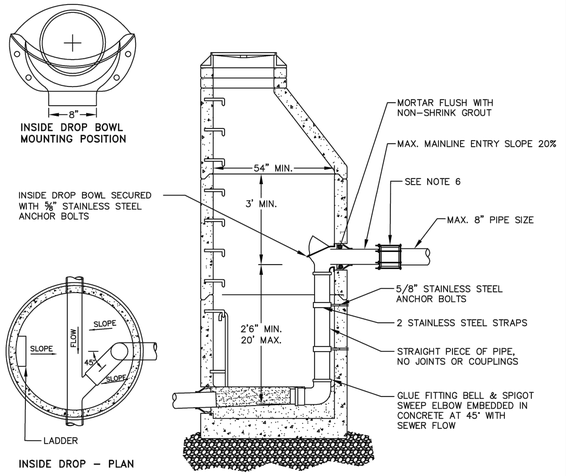
1. PRECAST SECTIONS SHALL BE REINFORCED PER ASTM SPECS FOR CORRESPONDING SEWER PIPE.
2. GALVANIZED OR PLASTIC SAFETY STEPS SHALL BE PER STANDARD DETAIL S–13.
3. SAFETY STEPS IN PRECAST BASE SECTION MAY BE CAST IN PLACE OR A PREFABRICATED LADDER GROUTED OR BOLTED IN PLACE. SEE STANDARD DETAIL S–13.
4. ALL HOLES FOR PIPE SHALL BE BLOCKED OUT AT THE TIME OF CASTING THE SECTION.
5. ALL RUBBER GASKETED MANHOLE SECTIONS SHALL BE FURNISHED WITH RUBBER GASKET JOINT PER ASTM C–478 AND ASTM C–443.
6. MANHOLES OVER 10' DEEP SHALL BE FURNISHED WITH A MIN. WALL THICKNESS OF 5".
7. MANHOLE RING AND COVER SPECS, SEE STANDARD DETAILS S–11 AND S–12 (BOLT–LOCKING COVER).
8. MANHOLE DIAMETER IN ACCORDANCE WITH CITY OF BELLEVUE ENGINEERING STANDARDS.
9. WHERE AWWA C900 PVC PIPE IS USED, CONNECTION SHALL BE MADE WITH PVC MANHOLE ADAPTER SIZED FOR THE O.D. OF AWWA C900 PVC PIPE. ADAPTER LENGTH SHALL MATCH OR EXCEED THE MANHOLE SECTION WALL THICKNESS.
10. MORTAR SHALL BE PLACED BETWEEN EACH LEVEL OF THE ADJUSTING RINGS, INCLUDING THE TOP OF THE CONE SECTION AND THE BOTTOM OF THE IRON RING.
11. GROUT ALL JOINTS INSIDE, OUTSIDE AND IN BETWEEN TO ACHIEVE WATERTIGHT CONSTRUCTION. FINISH SMOOTH THE INSIDE OF STRUCTURE. USE NON–SHRINK GROUT ONLY.
12. MANHOLES IN EASEMENTS SHALL BE CONSTRUCTED TO PROVIDE A STABLE, LEVEL GRADE FOR A MIN. RADIUS OF 2.5' FROM THE CENTER OF THE COVER. SEE STANDARD DETAIL S–8.
13. WHERE STANDARD MANHOLE CANNOT BE INSTALLED, THE CUSTOM MANHOLE SHALL BE DETAILED ON THE CONSTRUCTION PLANS.
14. PIPE CONNECTION TO MANHOLE: KOR–N–SEAL OR EQUAL FOR CORE–DRILLED SECTIONS, OR SAND COLLAR FOR SECTIONS WITH KNOCKOUTS.

City of Bellevue — SEWER UTILITIES

TITLE: STANDARD MANHOLE

JANUARY 2020 — NO SCALE — NO. S–1

DETAIL A VAR
SCALE: NTS




INSIDE DROP – PLAN

NOTES:

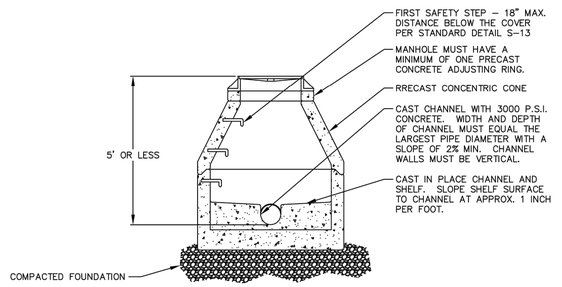
1. MANHOLE SHALL CONFORM TO GENERAL NOTES AND ALL APPLICABLE REQUIREMENTS OF STANDARD DETAIL S–1.
2. DROP BOWL TO BE INSTALLED MINIMUM OF 3' BELOW CONE SECTION.
3. INSIDE DROP SHALL BE CONSTRUCTED USING ASTM D3034 SDR 35 PIPE AND FITTING.
4. RECHANNEL BASE WITH 3000 PSI CONCRETE. WIDTH AND DEPTH OF CHANNEL MUST EQUAL THE LARGEST PIPE DIAMETER WITH A SLOPE OF 2% MIN. CHANNEL WALLS MUST BE VERTICAL. SLOPE SHELF TO CHANNEL AT 1" PER FOOT MIN.
5. CORE DRILL OPENINGS FOR NEW PIPE AND USE KOR–N–SEAL CONNECTORS OR EQUAL.
6. USE MECHANICAL TRANSITION COUPLING (SEE APPROVED MATERIAL LIST) WHEN CONNECTING TO EXISTING SEWER MAINLINE.
7. CONE MAY NEED TO BE ROTATED AND/OR LADDER MOVED.
8. MINIMUM MANHOLE SIZE IS 54".
8. MAXIMUM OF 2 DROPS PER STRUCTURE.

City of Bellevue — SEWER UTILITIES

TITLE: INSIDE DROP STRUCTURE

JANUARY 2020 — NO SCALE — NO. S–5

DETAIL B VAR
SCALE: NTS




NOTES:

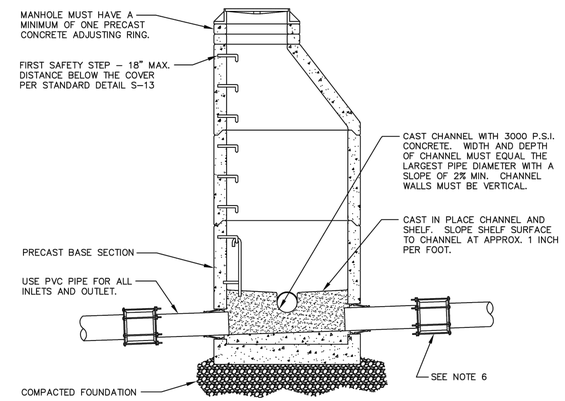
1. MANHOLE SHALL CONFORM TO THE GENERAL NOTES AND ALL APPLICABLE REQUIREMENTS OF STANDARD DETAIL S–1.
2. MANHOLES UNDER 5' IN DEPTH FROM RIM TO INVERT SHALL BE CONSTRUCTED WITH A CONCENTRIC CONE. MANHOLES OVER 5' SHALL BE CONSTRUCTED WITH AN ECCENTRIC CONE AND CONFORM TO STANDARD DETAIL S–1.
3. PIPE CONNECTION TO MANHOLE: KOR–N–SEAL OR EQUAL FOR CORE–DRILLED SECTIONS, OR SAND COLLAR FOR SECTIONS WITH KNOCKOUTS.
4. GROUT ALL JOINTS INSIDE, OUTSIDE AND IN BETWEEN TO ACHIEVE WATERTIGHT CONSTRUCTION. FINISH SMOOTH THE INSIDE OF STRUCTURE. USE NON–SHRINK GROUT ONLY.

City of Bellevue — SEWER UTILITIES

TITLE: MANHOLE UNDER 5 FEET DEEP

JANUARY 2020 — NO SCALE — NO. S–6

DETAIL C VAR
SCALE: NTS




NOTES:

1. MANHOLE SHALL CONFORM TO THE GENERAL NOTES AND ALL APPLICABLE REQUIREMENTS OF STANDARD DETAIL S–1.
2. THE ENTRY ANGLE OF THE NEW SEWER CONNECTION, RELATIVE TO THE EXISTING SEWER MAIN INLET, SHALL BE 90 DEGREES OR LESS.
3. IF NEW SEWER CONNECTION IS A MAINLINE, THE INVERT OF THE NEW PIPE SHALL BE SET AT THE SPRINGLINE OF THE EXISTING MAINLINE.
4. IF NEW SEWER CONNECTION IS A SIDE SEWER, THE INVERT OF THE NEW PIPE SHALL BE SET AT OR ABOVE THE CROWN OF THE EXISTING MAINLINE. NEW CONNECTION NOT TO EXCEED 18" ABOVE THE MAINLINE INVERT.
5. PVC PIPE CONNECTION TO MANHOLE: KOR–N–SEAL OR EQUAL FOR CORE–DRILLED SECTIONS, OR SAND COLLAR FOR SECTIONS WITH KNOCKOUTS.
6. CONNECT NEW PVC PIPE TO EXISTING SEWER MAINLINE WITH MECHANICAL TRANSITION COUPLING (SEE APPROVED MATERIAL LIST).
7. GROUT ALL JOINTS INSIDE, OUTSIDE AND IN BETWEEN TO ACHIEVE WATERTIGHT CONSTRUCTION. FINISH SMOOTH THE INSIDE OF STRUCTURE. USE NON–SHRINK GROUT ONLY.

City of Bellevue — SEWER UTILITIES

TITLE: NEW MANHOLE ON EXISTING SEWER

JANUARY 2020 — NO SCALE — NO. S–7

DETAIL D VAR
SCALE: NTS

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

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| | |
|---|---|
| DESIGNED/DRAWN: N. WHIRTY | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MAINTENANCE HOLE DETAILS 4

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40057
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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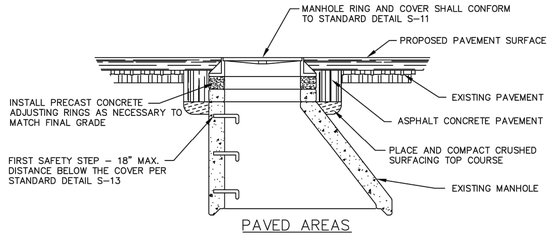
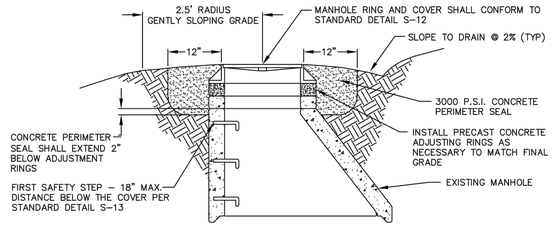
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:




PAVED AREAS



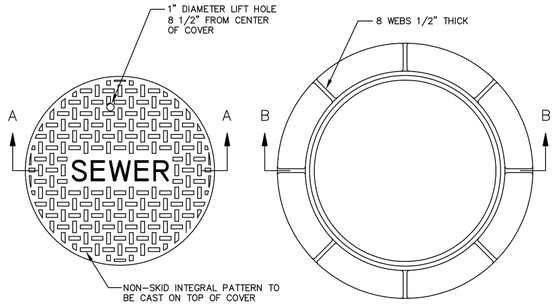

UNPAVED AREAS

NOTES:
1. 3/4" OF NON-SHRINK GROUT SHALL BE PLACED BETWEEN EACH LEVEL OF THE ADJUSTING RINGS, INCLUDING THE TOP OF THE CONE SECTION AND THE BOTTOM OF THE IRON RING.
2. GROUT INSIDE AND OUTSIDE OF THE MANHOLE NECK TO ACHIEVE WATERTIGHT CONSTRUCTION. FINISH SMOOTH THE INSIDE OF THE NECK. USE NON-SHRINK GROUT ONLY.
3. PRECAST ADJUSTING RINGS MUST BE CAST WITH GROOVES TO ALLOW FIELD INSTALLATION OF SAFETY STEPS.
4. SAFETY STEPS SHALL BE ADDED AS NEEDED.
5. REPLACE EXISTING RING AND COVER IF NON-CONFORMING OR WORN.
6. LOCKING RING AND COVERS ARE REQUIRED IN ALL UNPAVED AREAS AND EASEMENTS. LOCKING RING AND COVER SHALL CONFORM TO STANDARD DETAIL S-12.

City of Bellevue — SEWER UTILITIES

TITLE: MANHOLE GRADE ADJUSTMENT

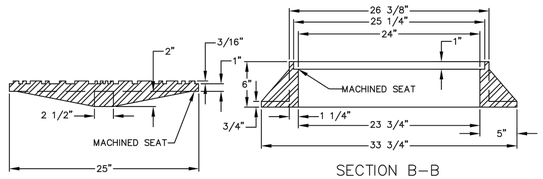
JANUARY 2020 — NO SCALE — NO. S-8




COVER PLAN




RING PLAN




SECTION A–A

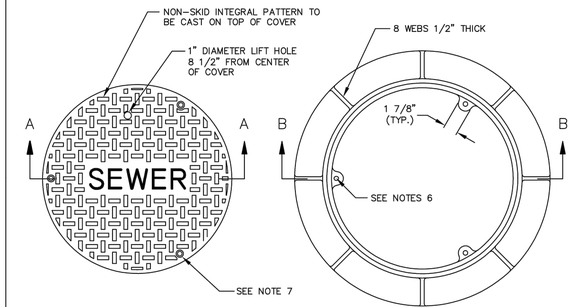
SECTION B–B

NOTES:
1. COVER SHALL HAVE THE WORD "SEWER" CAST IN 3" RAISED LETTERS.
2. ONLY FOR USE IN PUBLIC RIGHT-OF-WAY (PAVED AREAS AND SIDEWALKS).
3. RING AND COVER SHALL BE RATED HS-20.
4. RING AND COVER MATERIAL IS DUCTILE IRON, ASTM A536 – GRADE 80-55-06 OR CAST IRON, ASTM A30 – CLASS 25.
5. EJCO MODEL 3705CPT/3715ZPT, OR EQUAL.
6. DUCTILE OR CAST COVER SHALL HAVE MINIMUM WEIGHT OF 150 LBS.
7. DUCTILE OR CAST RING SHALL HAVE MINIMUM WEIGHT OF 210 LBS.

City of Bellevue — SEWER UTILITIES

TITLE: 24" MANHOLE RING AND COVER

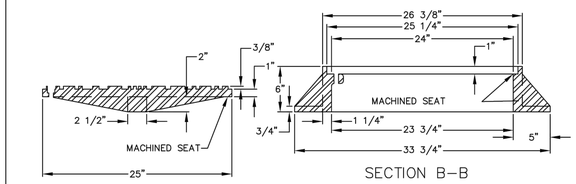
JANUARY 2020 — NO SCALE — NO. S-11




COVER PLAN




RING PLAN




SECTION A–A

SECTION B–B

NOTES:
1. COVER SHALL HAVE THE WORD "SEWER" CAST IN 3" RAISED LETTERS.
2. ONLY FOR USE IN EASEMENTS AND UNPAVED AREAS. DO NOT USE IN PAVED AREAS.
3. RING AND COVER MATERIAL: DUCTILE IRON ASTM A536-GRADE 80-55-06 OR CAST IRON ASTM A48-CLASS 30.
4. DUCTILE OR CAST COVER SHALL HAVE MINIMUM WEIGHT OF 150 LBS.
5. DUCTILE OR CAST RING SHALL HAVE MINIMUM WEIGHT OF 210 LBS.
6. RING SHALL HAVE THREE 5/8"-11 N.C. TAPPED HOLES AT 120 DEGREES.
7. COVER SHALL HAVE THREE COUNTERSUNK 5/8"-11 N.C THROUGH HOLES AT 120 DEGREES TO MATCH RING.
8. LOCKING BOLTS SHALL BE 5/8"-11 N.C. X 2" 304 STAINLESS STEEL SOCKET (ALLEN) HEAD.
9. OLYMPIC FOUNDRY MH30AD/T, OR EQUAL.
10. RING AND COVER SHALL BE RATED HS-20.

City of Bellevue — SEWER UTILITIES

TITLE: 24" BOLT-LOCKING MANHOLE RING AND COVER

JANUARY 2020 — NO SCALE — NO. S-12

## GENERAL NOTES

1. FOR USE ON SEWER 8-INCHES IN DIAMETER ONLY.

DETAIL A — SCALE: NTS — A VAR

DETAIL B — SCALE: NTS — B VAR

DETAIL C — SCALE: NTS — C VAR

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell — AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

HERBERT WILLIAM JACOBSEN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

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| DESIGNED/DRAWN: | CHECKED: |
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| N. WHIRTY | R. BARD |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# MAINTENANCE HOLE DETAILS 5

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-40058

SHT NO / TOTAL: # — REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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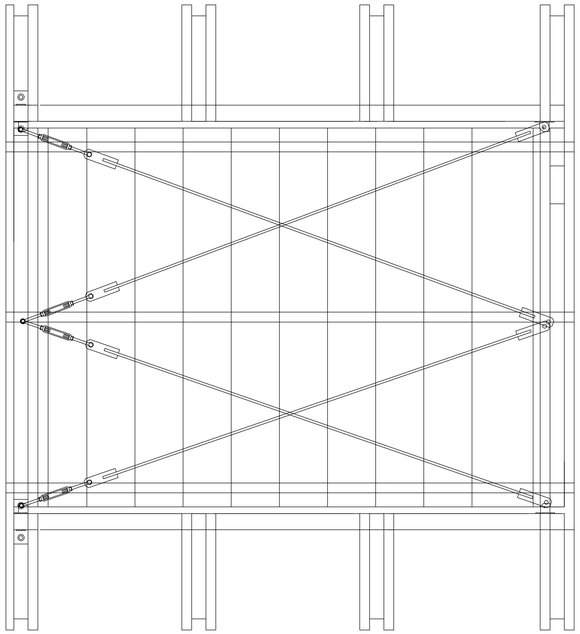
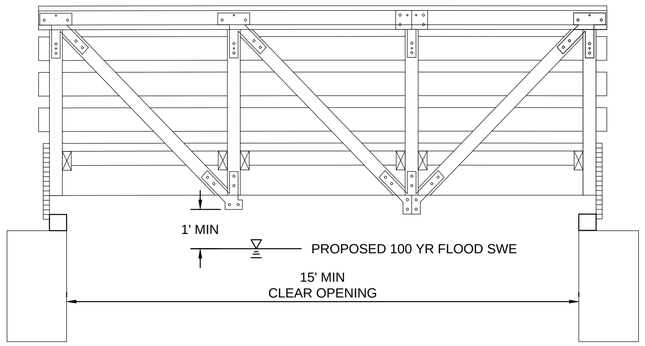
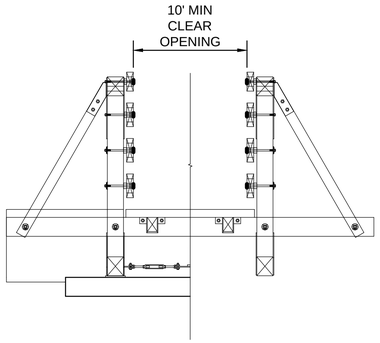
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:



PLAN




ELEVATION




ABUTMENT MIDSPAN

## GENERAL NOTES

1. COORDINATE WITH WORK AS SHOWN ON CC900-C-10168.

NOTES:

1. THIS DRAWING IS FOR REFERENCE ONLY. EACH BRIDGE AND FOUNDATION SYSTEM SHALL BE ENGINEERED AND MANUFACTURED BY WESTERN WOOD STRUCTURES, INC. MEETING THE REQUIREMENTS OF CITY OF BELLEVUE DEPARTMENT OF PARKS AND TRAILS FOR THE COAL CREEK NATURAL AREA. BASED ON SPECIFIC SITE CONDITIONS AND CITY OF BELLEVUE BUILDING CODE REQUIREMENTS.
2. BRIDGE SHALL HAVE MINIMUM 22,000lb GVW RATING.
3. ALL WOOD SHALL BE GLULAM WEST COAST DOUGLAS FIR 24F-VA/COMB. 2 OR GLULAM ALASKAN YELLOW CEDAR COMB. 70. WOOD TREATMENT TO BE DETERMINED BY BELLEVUE PARKS.
4. ALL HARDWARE AND CONNECTORS SHALL BE HOT DIPPED GALVANIZED.

TRIBUTARY 1 BRIDGE

DETAIL A VAR

SCALE: NTS

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

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| DESIGNED/DRAWN: N. WHIRTY | CHECKED: R. BARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

**TRIBUTARY 1 BRIDGE**

DATE: DECEMBER 2020

DRAWING NO: **CCT900-C-40070**

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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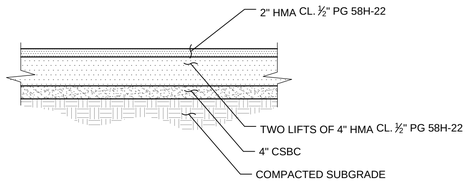
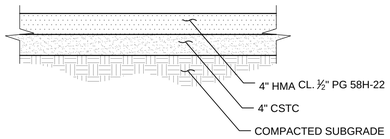
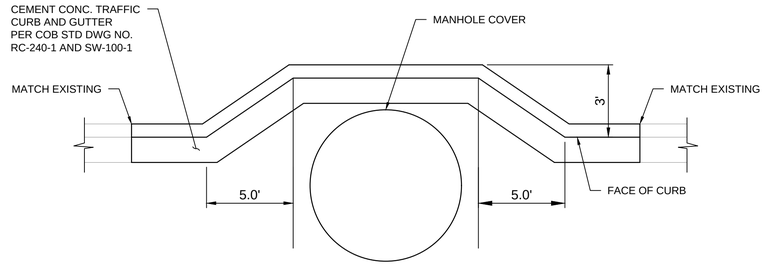


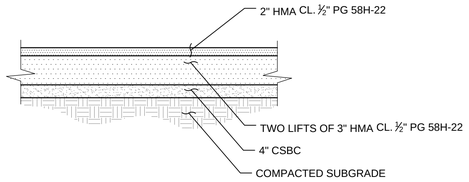

## 10" ASPHALT ROADWAY DETAIL 1
SCALE: NONE VAR



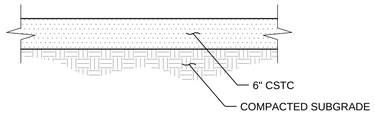

## ASPHALT WALKWAY DETAIL 3
SCALE: NONE VAR



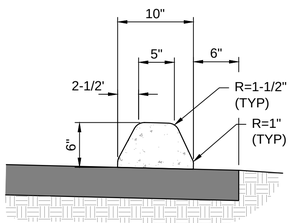

## WIDENED TRAFFIC CURB AND GUTTER DETAIL 6
SCALE: NONE C-10139




## 6" ASPHALT ROADWAY DETAIL 2
SCALE: NONE VAR



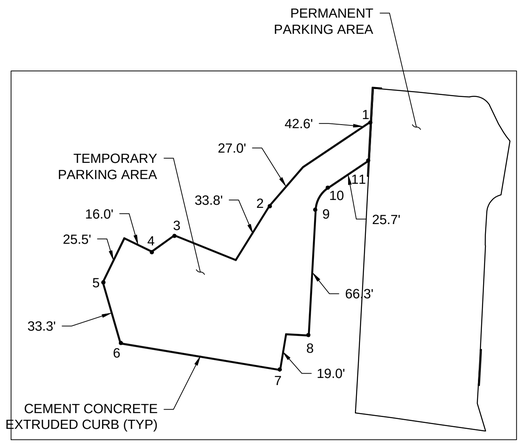

## GRAVEL AREA DETAIL 4
SCALE: NONE VAR




NOTE

1. EXTRUDED CEMENT CONCRETE CURB SHALL BE ANCHORED TO EXISTING PAVEMENT BY EITHER STEEL TIE BARS OR ADHESIVE IN CONFORMANCE WITH WSDOT/APWA STANDARD SPECIFICATION SECTION 8-04. JOINTS SHALL BE SPACED AT TEN (10) FOOT INTERVALS.

## EXTRUDED CEMENT CONCRETE CURB DETAIL 5
SCALE: NONE VAR




| CURB LAYOUT TABLE | | |
|---|---|---|
| POINT | STATION | OFFSET |
| 1 | 19+81.84 | 145.95' RT |
| 2 | 19+45.93 | 204.82' RT |
| 3 | 19+03.33 | 235.86' RT |
| 4 | 18+94.78 | 247.85' RT |
| 5 | 18+75.72 | 271.15' RT |
| 6 | 18+94.77 | 298.48' RT |
| 7 | 19+78.64 | 284.70' RT |
| 8 | 19+87.08 | 262.65' RT |
| 9 | 19+69.22 | 198.85' RT |
| 10 | 19+71.74 | 185.72' RT |
| 11 | 19+87.34 | 165.26' RT |

## TEMPORARY PARKING AREA FOR CONDO DETAIL 7
SCALE: NONE C10132

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

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DECEMBER 2020

ESSA MARIE DON — STATE OF WASHINGTON — 48151 — REGISTERED PROFESSIONAL ENGINEER

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| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: NONE |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SURFACE RESTORATION DETAILS

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40130
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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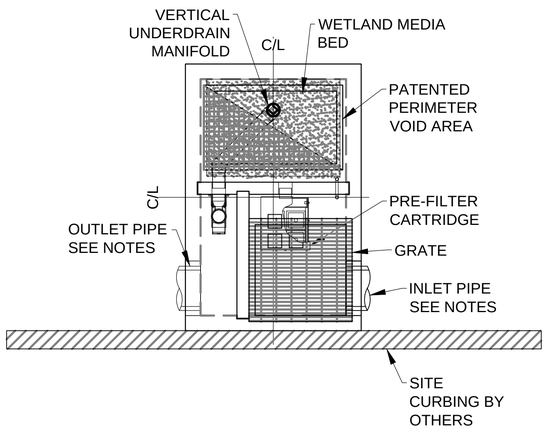
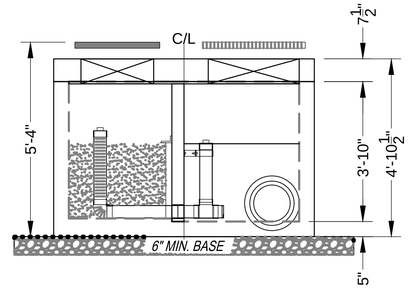
PLOTTED: Jul 29, 2020-10:38:48am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; 900-1123624Proposed.dwg; 900-1123624RoadwayPavementRestore.dwg
IMAGES:

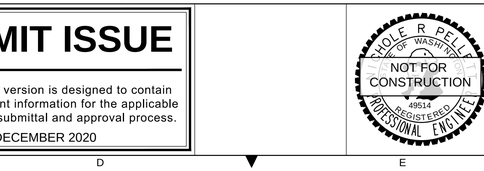
| SITE SPECIFIC DATA | | | |
|---|---|---|---|
| PROJECT NUMBER | | 11106 | |
| PROJECT NAME | | COAL CREEK TRUNK UPGRADE | |
| PROJECT LOCATION | | KING COUNTY, WA | |
| STRUCTURE ID | | MW-1 | |
| TREATMENT REQUIRED | | | |
| VOLUME BASED (CF) | | FLOW BASED (CFS) | |
| | | 0.011 | |
| PEAK BYPASS REQUIRED (CFS) - IF APPLICABLE | | | 0.245 |
| PIPE DATA | I.E. | MATERIAL | DIAMETER |
| INLET PIPE | 377.52 | CMP | 12" |
| OUTLET PIPE | 377.02 | CMP | 12" |
| | PRETREATMENT | BIOFILTRATION | DISCHARGE |
| RIM ELEVATION | 381.85 | 381.85 | 381.85 |
| SURFACE LOAD | LOAD LEVEL 4 PER ASTM C1802 | | |
| FRAME & COVER | 30" X 30" | 24" X 42" | N/A |
| WETLANDMEDIA VOLUME (CY) | | | 0.74 |
| ORIFICE SIZE (DIA. INCHES) | | | 4 EA Ø0.62" |
| NOTES: | | | |




PLAN VIEW




LEFT END VIEW




ELEVATION VIEW




RIGHT END VIEW

## INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING MODULAR WETLANDS FOR ACTIVATION OF UNIT. MANUFACTURES WARRANTY IS VOID WITH OUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

## GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

## INTERNAL BYPASS DISCLOSURE:

THE DESIGN AND CAPACITY OF THE PEAK CONVEYANCE METHOD TO BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD. HGL(S) AT PEAK FLOW SHALL BE ASSESSED TO ENSURE NO UPSTREAM FLOODING. PEAK HGL AND BYPASS CAPACITY SHOWN ON DRAWING ARE USED FOR GUIDANCE ONLY.

MODULAR WETLAND 1

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|
| | | | | |

Brown AND Caldwell | PERTEET
AND ASSOCIATED FIRMS
505 FIFTH AVENUE S, SUITE 300
SEATTLE, WA 98104
206.436.0515 | 800.615.9900

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DECEMBER 2020

CHOLE R PELL
STATE OF WASHINGTON
49514
REGISTERED
PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
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| DESIGNED/DRAWN: N. PELLETT | CHECKED: M. HENDRIX |
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| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# FOREST DRIVE PARKING LOT DRAINAGE DETAILS

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40140
SHT NO # / TOTAL # | REV NO: 0


BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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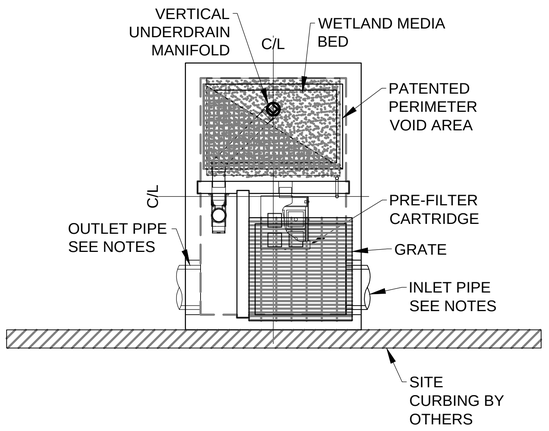
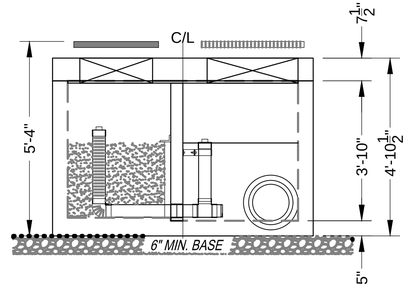
PLOTTED: Jul 29, 2020-10:49:09am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

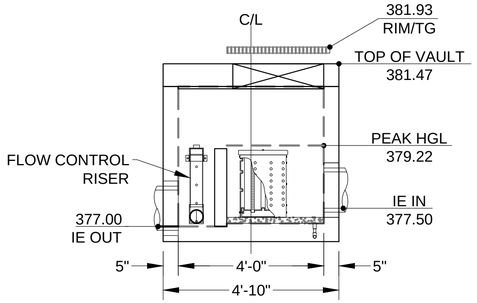
| SITE SPECIFIC DATA | | | |
|---|---|---|---|
| PROJECT NUMBER | | 11106 | |
| PROJECT NAME | | COAL CREEK TRUNK UPGRADE | |
| PROJECT LOCATION | | KING COUNTY, WA | |
| STRUCTURE ID | | MW-2 | |
| TREATMENT REQUIRED | | | |
| VOLUME BASED (CF) | | FLOW BASED (CFS) | |
| | | 0.005 | |
| PEAK BYPASS REQUIRED (CFS) - IF APPLICABLE | | | 0.080 |
| PIPE DATA | I.E. | MATERIAL | DIAMETER |
| INLET PIPE | 377.50 | CMP | 12" |
| OUTLET PIPE | 377.00 | CMP | 12" |
| | PRETREATMENT | BIOFILTRATION | DISCHARGE |
| RIM ELEVATION | 381.93 | 381.93 | 381.93 |
| SURFACE LOAD | LOAD LEVEL 4 PER ASTM C1802 | | |
| FRAME & COVER | 30" X 30" | 24" X 42" | N/A |
| WETLANDMEDIA VOLUME (CY) | | | 0.74 |
| ORIFICE SIZE (DIA. INCHES) | | | 4 EA Ø0.62" |
| NOTES: | | | |



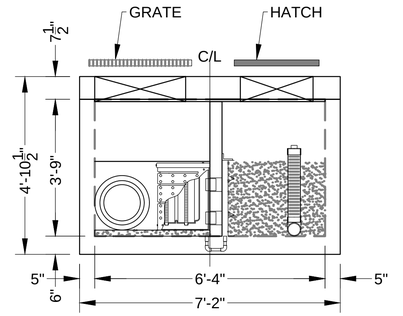

PLAN VIEW




LEFT END VIEW




ELEVATION VIEW




RIGHT END VIEW

## INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
3. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL GAPS AROUND PIPES SHALL BE SEALED WATER TIGHT WITH A NON-SHRINK GROUT PER MANUFACTURERS STANDARD CONNECTION DETAIL AND SHALL MEET OR EXCEED REGIONAL PIPE CONNECTION STANDARDS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. DRIP OR SPRAY IRRIGATION REQUIRED ON ALL UNITS WITH VEGETATION.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING MODULAR WETLANDS FOR ACTIVATION OF UNIT. MANUFACTURES WARRANTY IS VOID WITH OUT PROPER ACTIVATION BY A MODULAR WETLANDS REPRESENTATIVE.

## GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT MANUFACTURER.

## INTERNAL BYPASS DISCLOSURE:

THE DESIGN AND CAPACITY OF THE PEAK CONVEYANCE METHOD TO BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD. HGL(S) AT PEAK FLOW SHALL BE ASSESSED TO ENSURE NO UPSTREAM FLOODING. PEAK HGL AND BYPASS CAPACITY SHOWN ON DRAWING ARE USED FOR GUIDANCE ONLY.

MODULAR WETLAND 2

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell AND ASSOCIATED FIRMS

PERTEET
505 FIFTH AVENUE S, SUITE 300
SEATTLE, WA 98104
206.436.0515 | 800.615.9900

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DECEMBER 2020

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CHOLE R PELL — STATE OF WASHINGTON — 49514 — REGISTERED PROFESSIONAL ENGINEER

| | |
|---|---|
| DESIGNED/DRAWN: N. PELLETT | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: NONE |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# FOREST DRIVE PARKING LOT DRAINAGE DETAILS

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40141
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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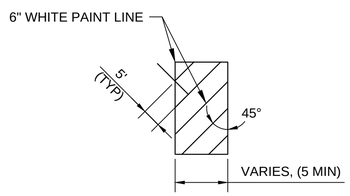
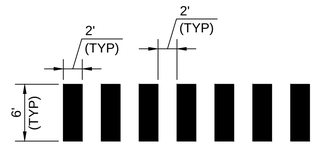



PARKING AISLE DETAIL 1
SCALE: NONE
VAR




CROSSWALK DETAIL 2
SCALE: NONE
C-10194

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|
| | | | | |

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SEATTLE, WA 98104
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DECEMBER 2020

JESSA MARIE DOW
STATE OF WASHINGTON
48151
REGISTERED
PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: J. DONATO | CHECKED: M. HENDRIX |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: NONE |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# STRIPING AND SIGNING DETAILS

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40150
SHT NO # / TOTAL #
REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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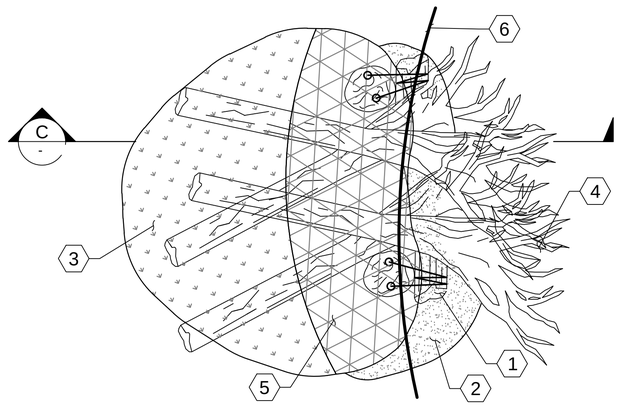
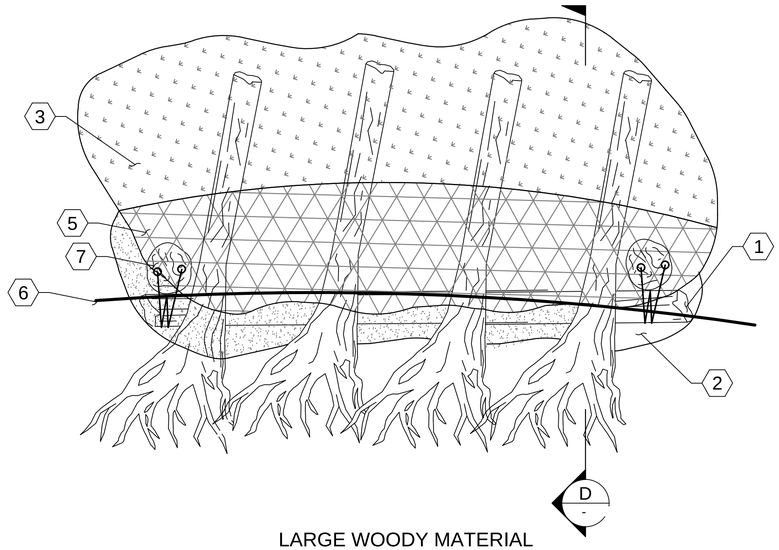


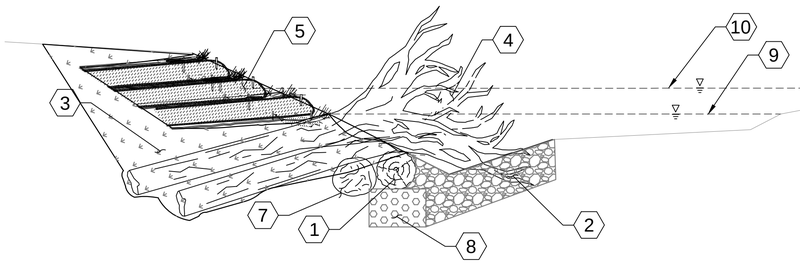

LARGE WOODY MATERIAL
BANK PROTECTION CROSS STRUCTURE

DETAIL A
SCALE: NTS
CCT900-C-10165



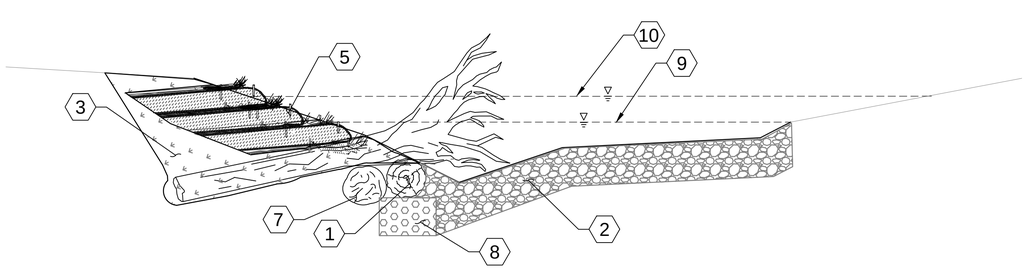

LARGE WOODY MATERIAL
BANK PROTECTION STRUCTURE

DETAIL B
SCALE: NTS
CCT900-C-10165
CCT900-C-10166




LARGE WOODY MATERIAL BANK PROTECTION
CROSS STRUCTURE TYPICAL SECTION

DETAIL C
SCALE: NTS
-




LARGE WOODY MATERIAL BANK PROTECTION
STRUCTURE TYPICAL SECTION

DETAIL D
SCALE: NTS
-

## GENERAL NOTES

1. PROJECT REPRESENTATIVE TO VERIFY PLACEMENT OF ALL MATERIALS AND MAY ADJUST ORIENTATION AND/OR LOCATION TO ACCOMMODATE SITE CONDITIONS.
2. ALL LWM LOGS TO BE EMBEDDED WITH ROOTWAD EXPOSED TO THE EXTENTS SHOWN ON DRAWINGS.

## KEY NOTES

1. BURY FOUNDATION LOG UNTIL TOP OF LOG IS AT FINAL GRADE CHANNEL BED ELEVATION
2. FILL VOID SPACE BETWEEN LWM WITH STREAMBED AGGREGATE TO THE TOP OF THE LWM (DEPTH OF FILL VARIES)
3. FILL VOIDS WITH BACKFILL OVER LWM AND FESL TO PROPOSED GRADE
4. PLACE RACKING MATERIAL AT FRONT OF LWM
5. PLACE FESL ON TOP OF LWM SEE SHEET CCT900-C-40166
6. EDGE OF BANK
7. BOULDER BALLAST. SEE DETAIL F/CCT900-C-40161 FOR ADDITIONAL INFORMATION
8. KEY IN TOE ROCK (CLASS A RIPRAP). PLACE TOE ROCK WIDTH, DEPTH, AND LENGTH TO MATCH THE DIAMETER LENGTH OF FOUNDATION LOG
9. PROPOSED 2-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
10. PROPOSED 100-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL

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DECEMBER 2020

NICOLAS VANBUSKIRK — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION DETAILS LWM 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40160
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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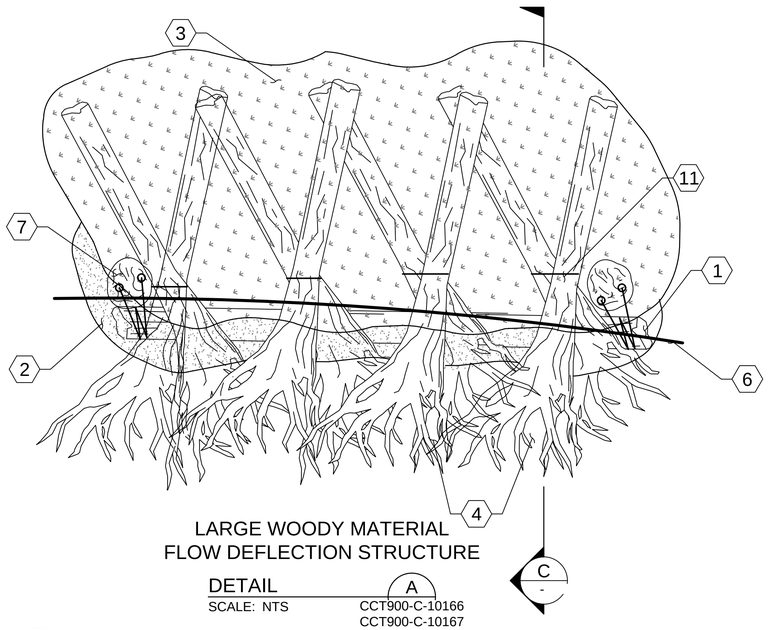
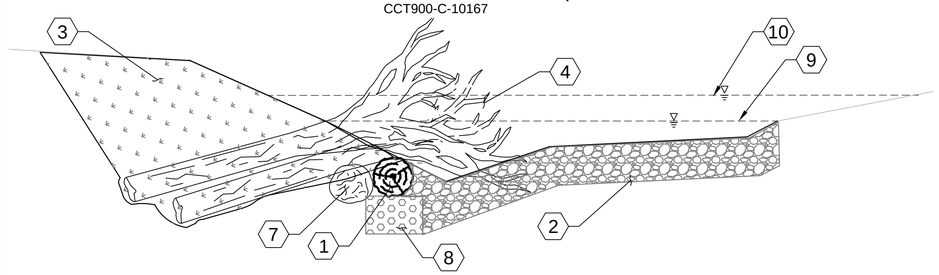



LARGE WOODY MATERIAL
FLOW DEFLECTION STRUCTURE

DETAIL A
SCALE: NTS
CCT900-C-10166
CCT900-C-10167



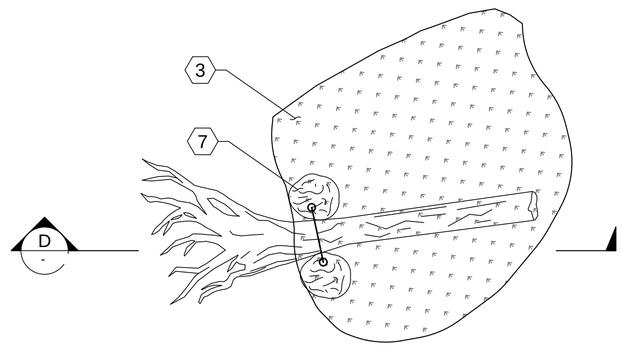

LARGE WOODY MATERIAL
FLOW DEFLECTION TYPICAL SECTION

SECTION C
SCALE: NTS

FOUNDATION LOG BOULDER ANCHOR

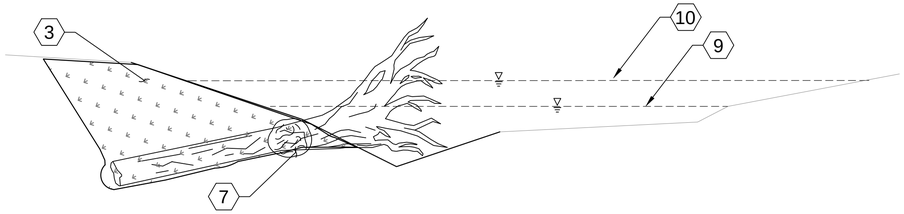
DETAIL E
SCALE: NTS

F
-



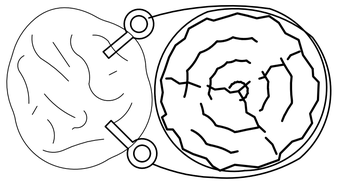

LARGE WOODY MATERIAL
FLOODPLAIN HABITAT LOG

DETAIL B
SCALE: NTS
CCT900-C-10166



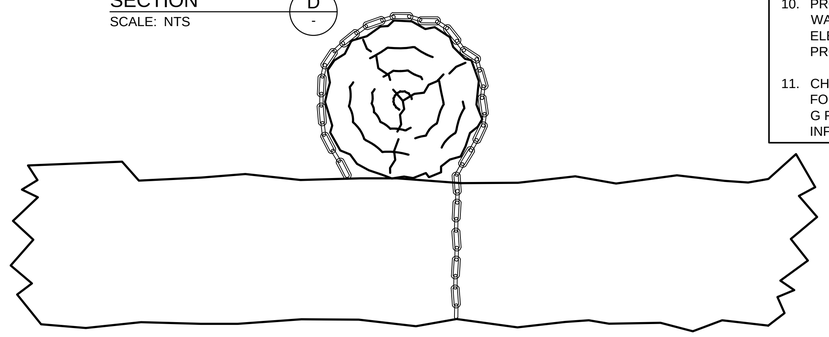

HABITAT LOG TYPICAL SECTION

SECTION D
SCALE: NTS



BOULDER ANCHOR

DETAIL F
SCALE: NTS



TYPICAL CHAIN LOG TO LOG

DETAIL G
SCALE: NTS

## GENERAL NOTES

1. PROJECT REPRESENTATIVE TO VERIFY PLACEMENT OF ALL MATERIALS AND MAY ADJUST ORIENTATION AND/OR LOCATION TO ACCOMMODATE SITE CONDITIONS.
2. ALL LWM LOGS TO BE EMBEDDED WITH ROOTWAD EXPOSED TO THE EXTENTS SHOWN ON DRAWINGS.

## KEY NOTES

1. BURY FOUNDATION LOG UNTIL TOP OF LOG IS AT FINAL GRADE CHANNEL BED ELEVATION
2. FILL VOID SPACE BETWEEN LWM WITH STREAMBED AGGREGATE TO THE TOP OF THE LWM (DEPTH OF FILL VARIES)
3. FILL VOIDS WITH BACKFILL OVER LWM TO PROPOSED GRADE
4. PLACE RACKING MATERIAL AT FRONT OF LWM
5. PLACE FESL ON TOP OF LWM SEE SHEET CCT900-C-40166
6. EDGE OF BANK
7. BOULDER BALLAST. SEE DETAIL F ON THIS SHEET FOR ADDITIONAL INFORMATION
8. KEY IN TOE ROCK (CLASS A RIPRAP) PLACE TOE ROCK WIDTH, DEPTH, AND LENGTH TO MATCH THE DIAMETER LENGTH OF FOUNDATION LOG
9. PROPOSED 2-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
10. PROPOSED 100-YR FLOOD WATER SURFACE ELEVATION (WSE) FROM PROJECT MODEL
11. CHAIN LOGS TOGETHER FOR STABILITY. SEE DETAIL G FOR ADDITIONAL INFORMATION.

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|---|---|---|---|---|

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AND ASSOCIATED FIRMS

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DECEMBER 2020

NICHOLAS VANDUSEN
STATE OF WASHINGTON
51132
REGISTERED
PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION DETAILS LWM 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40161
SHT NO / TOTAL #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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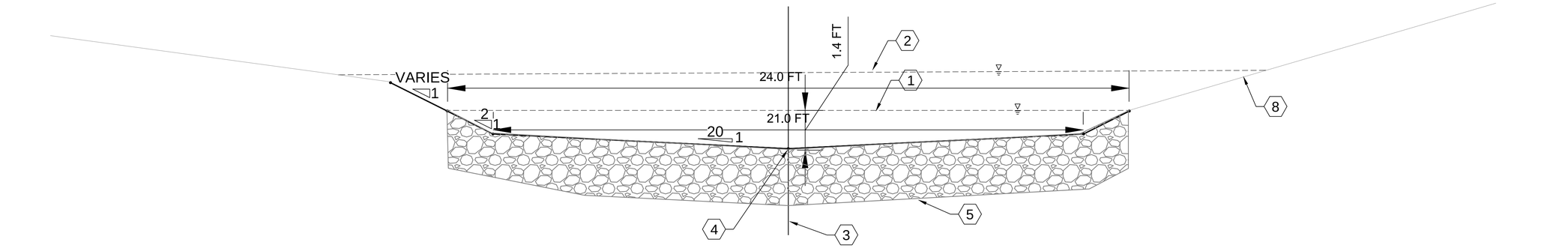
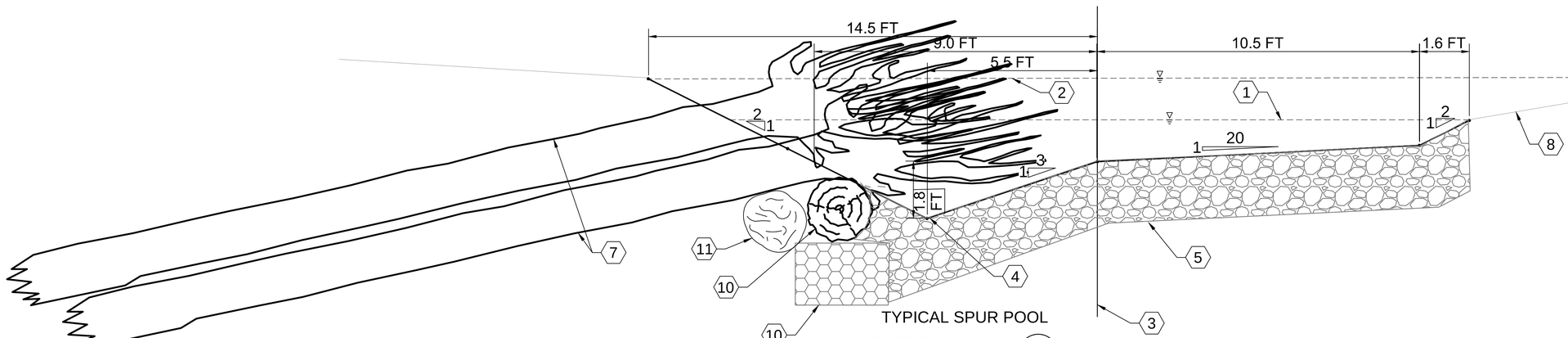


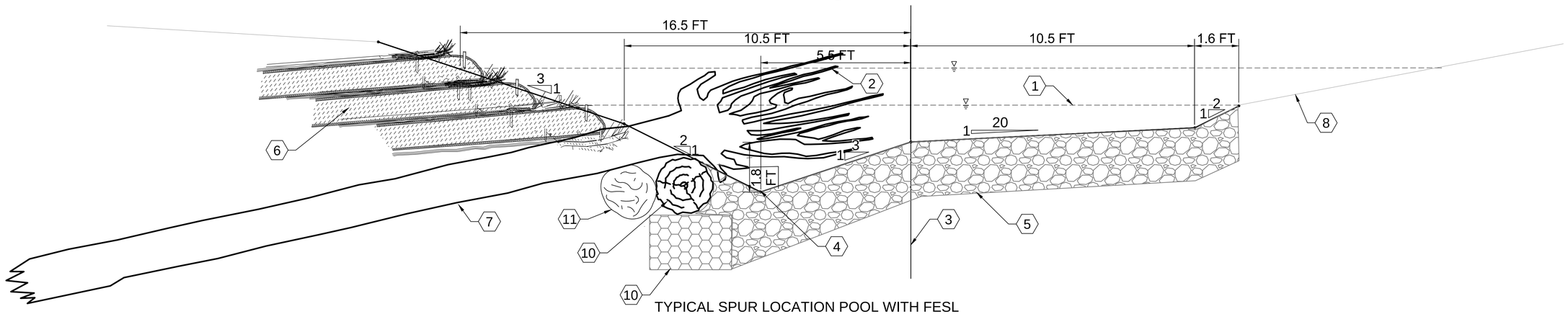

TYPICAL SPUR RIFFLE

SECTION A
SCALE: 1"=2'-0" CCT900-C-10166




TYPICAL SPUR POOL

SECTION B
SCALE: 1"=2'-0" CCT900-C-10166




TYPICAL SPUR LOCATION POOL WITH FESL

SECTION C
SCALE: 1"=2'-0" CCT900-C-10166

## KEY NOTES

1. PROPOSED 2-YR WATER SURFACE ELEVATION (WSE)
2. PROPOSED 100-YR WATER SURFACE ELEVATION (WSE)
3. STREAM CENTERLINE
4. STREAM THALWEG
5. STREAMBED AGGREGATE, MINIMUM 2-FOOT DEPTH.
6. FOR FESL DETAILS SEE SHEET CCT900-C-40166
7. LARGE WOODY MATERIAL
8. EXISTING GRADE
9. FOUNDATION LOG FOR ADDITIONAL INFORMATION SEE SHEET CCT900-C-40161
10. TOE ROCK FOR ADDITIONAL INFORMATION SEE SHEET CCT900-C-40161
11. BOULDER BALLAST FOR ADDITIONAL INFORMATION SEE DETAIL F/CCT900-C-40161

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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NICHOLAS VANHUIS — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION TYPICAL SPUR DETAILS

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-40162

SHT NO / TOTAL: # | REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-11:02:02am By kinseym2
XREFS: Stream Restoration.dwg; KCWTD-Dsize-TB-Border.dwg
IMAGES:

PROJECT LOCATION:
CONDOS

COAL CREEK

STRUCTURE 1

STRUCTURE 2

STRUCTURE 3

STRUCTURE 4

STRUCTURE 5

RE*COAL.R13-05

TRIBUTARY #268

STREAM FLOW

Covered Parking

4' Tall

303+00

304+00

1+00

1+50

2+50

0+50

OHWM

100 - YR

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE-FAMILY TRANSITION AREA

**LEGEND**

- OHWM (MAY 2019 SURVEY)
- EXISTING LARGE WOODY MATERIAL
- PROPOSED LARGE WOODY MATERIAL WITH ROOTWAD
- PROPOSED LARGE WOODY MATERIAL WITHOUT ROOTWAD
- PROPOSED STREAMBED AGGREGATE (4-INCH COBBLES)

## GENERAL NOTES

1. BRANCHES SHALL REMAIN ON ALL LOGS EXCEPT FOUNDATION LOG.
2. FOR TYPICAL LWM LAYER PLAN SEE SHEET CCT900-C-40165

## KEY NOTES

1. PROPOSED BALLAST BOULDER SEE DETAIL F/ CCT900-C-40161 FOR ADDITIONAL INFORMATION ON BOULDER ANCHORING
2. PROPOSED FABRIC-ENCAPSULATED SOIL LIFTS NOT SHOWN FOR CLARITY OF LARGE WOODY MATERIAL DETAIL
3. EXISTING LARGE WOODY MATERIAL TO REMAIN
4. EXCAVATE AND PLACE STREAMBED AGGREGATE (4-INCH COBBLES)
5. PROPOSED TYPE A LOG
6. PROPOSED TYPE B LOG
7. PROPOSED TYPE D LOG

| LOG TYPES (MIN) | | |
|---|---|---|
| TYPE | LENGTH | DIAMETER |
| A/B/D | FT | IN |
| A | 15 | 24 |
| B | 20 | 24 |
| D | 30 | 24 |

0 10 20 30
SCALE IN FEET

| STRUCTURE 1 (BANK PROTECTION CROSS) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | A/B/D | YES/NO |
| 1 | 1 | B | NO |
| 2 | 2 | B | YES |
| 3 | 2 | B | YES |

| STRUCTURE 2 (BANK PROTECTION) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | YES/NO |
| # | # | A/B/D | Y/N |
| 1 | 1 | D | YES |
| 2 | 4 | B | YES |

| STRUCTURE 3 (BANK PROTECTION) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | A/B/D | YES/NO |
| 1 | 1 | D | NO |
| 2 | 5 | A | YES |

| STRUCTURE 4 (BANK PROTECTION) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | A/B/D | YES/NO |
| 1 | 1 | B | NO |
| 2 | 3 | B | YES |

| STRUCTURE 5 (BANK PROTECTION) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | A/B/D | YES/NO |
| 1 | 1 | D | NO |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

NICHOLAS VANDUSEN STATE OF WASHINGTON 51132 REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: M. KINSEY | CHECKED: S. CLAYTON |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LWM DETAIL AT CONDOS LOCATION

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40163
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\1123626-CCT900-C-40163.dwg, KCWTD-Dsize-TB-Border.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
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XREFS: zexistingdata.DWG; 900-1123624Alignments.dwg, J16144-C3D 2017.dwg; 900-1123624EGCombinedSurface.dwg; Stream Restoration- Condos.dwg; KCWTD-Dsize-TB-Border.dwg
IMAGES:

PROJECT LOCATION:
SPUR

TRIBUTARY 1

RE*COAL.R33-10

WETLAND H

STRUCTURE 1

STRUCTURE 2

RE*COAL.R13-25

WETLAND I

STRUCTURE 6

STRUCTURE 3

RE*COAL.R13-25B

RE*COAL.R13-25C

STREAM FLOW

STRUCTURE 5

STRUCTURE 4

WETLAND J

RE*COAL.R13-25A

TRAIL

15" RCP

15" RCP

SMH NO.3580
RIM EL=284.32
CC CHAN EL=278.6

SMH NO.3560
RIM EL=284.32
CC CHAN EL=278.6

SMH NO.3580
RIM EL=284.32
CC CHAN EL=278.6

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

## GENERAL NOTES

1. BRANCHES SHALL REMAIN ON ALL LOGS EXCEPT FOUNDATION LOG.
2. FOR TYPICAL LWM LAYER PLAN SEE SHEET CCT900-C-40165

## KEY NOTES

1. PROPOSED BALLAST BOULDER. FOR ADDITIONAL DETAIL ON BOULDER ANCHORING SEE DETAIL F/ CCT900-C-40161
2. NOT USED
3. TRIBUTARY #1 TO BE REALIGNED SEE SHEET CCT900-C-10168 FOR FURTHER DETAIL
4. BOUNDARY OF PROPOSED STREAMBED AGGREGATE AT SPUR (4-INCH COBBLES).
5. BOUNDARY OF PROPOSED STREAMBED AGGREGATE AT TRIBUTARY #1 (10-INCH COBBLES).
6. PROPOSED TYPE B LOG.
7. PROPOSED TYPE C LOG.
8. PROPOSED TYPE D LOG.

| LOG TYPES (MIN) | | |
|---|---|---|
| TYPE | LENGTH | DIAMETER |
| B/C/D | FT | IN |
| B | 20 | 24 |
| C | 25 | 24 |
| D | 30 | 24 |

**LEGEND**

- PROPOSED LARGE WOODY MATERIAL WITH ROOTWAD
- PROPOSED LARGE WOODY MATERIAL WITHOUT ROOTWAD
- EXISTING WETLAND

| STRUCTURE 1 (FLOW DEFLECTION) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | B/C/D | YES/NO |
| 1 | 1 | B | NO |
| 2 | 2 | C | YES |
| 3 | 2 | C | YES |

| STRUCTURE 2 (BANK PROTECTION) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | B/C/D | YES/NO |
| 1 | 2 | B | NO |
| 1 | 1 | D | YES |
| 2 | 2 | D | YES |
| 2 | 8 | C | YES |

| STRUCTURE 3 (FLOW DEFLECTION) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | B/C/D | YES/NO |
| 1 | 1 | B | NO |
| 2 | 2 | D | YES |
| 3 | 2 | D | YES |

| STRUCTURE 4 (FLOW DEFLECTION) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | B/C/D | YES/NO |
| 1 | 1 | D | NO |
| 2 | 4 | C | YES |
| 3 | 4 | C | YES |

| STRUCTURE 5 (FLOW DEFLECTION) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | B/C/D | YES/NO |
| 1 | 1 | B | NO |
| 2 | 2 | C | YES |
| 3 | 2 | C | YES |

| STRUCTURE 6 (FLOODPLAIN HABITAT) | | | |
|---|---|---|---|
| LAYER | QUANTITY | TYPE | ROOTWAD |
| # | # | B/C/D | YES/NO |
| 1 | 2 | D | YES |

0 10 20 30
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

NICHOLAS VANDUE — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER
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| DESIGNED/DRAWN: | CHECKED: |
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| M. KINSEY | S. CLAYTON |
| PROJECT ENGINEER: | SCALE: |
| R. JACOBSEN | AS SHOWN |
| DESIGN APPROVAL: | PROJECT FILE NO: |
| J. PAULSON | 18-1123624 |
| PROJECT ACCEPTANCE: | CONTRACT NO: |
| E. MATSON | 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LWM DETAILS AT SPUR LOCATION

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40164
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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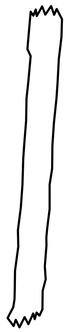
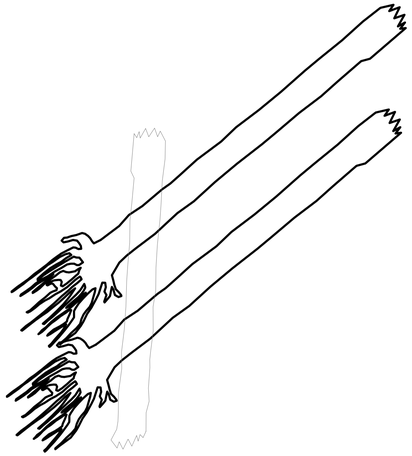


LAYER ONE
SCALE: NTS



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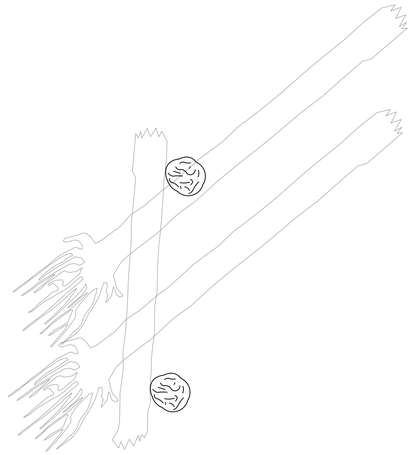
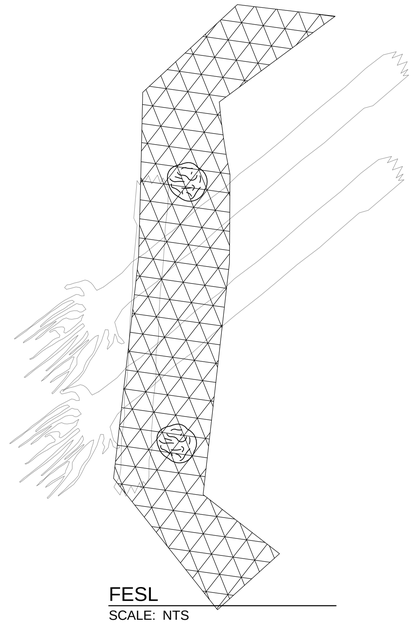


BALLAST BOULDERS
SCALE: NTS



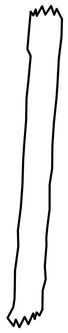
FESL
SCALE: NTS

TYPICAL TWO LAYER LWM
STRUCTURE WITH FESL

DETAIL A
SCALE: NTS VARIES

## GENERAL NOTES

1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON LOG MATERIALS.
2. LOG MATERIALS SHALL BE PLACED AT THE LOCATIONS AND ELEVATIONS SPECIFIED ON THE DRAWINGS OR AS DIRECTED BY THE STREAM ENGINEER.
3. FOR TYPICAL TWO LAYER LWM STRUCTURE WITH FESL, BACKFILL OVER LWM TO THE TOP OF THE LWM IS REQUIRED PRIOR TO INSTALLATION OF FESL.
4. SEE DETAIL F/CCT900-C-40160 FOR ADDITIONAL INFORMATION ON BOULDER ANCHORING.



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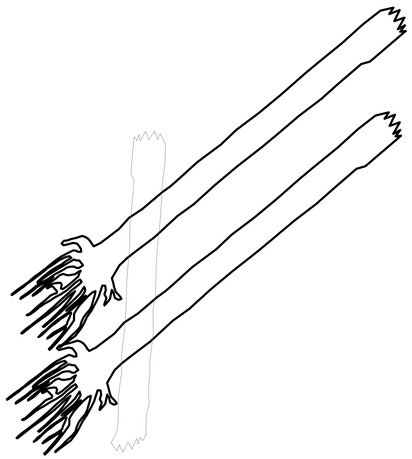
SCALE: NTS



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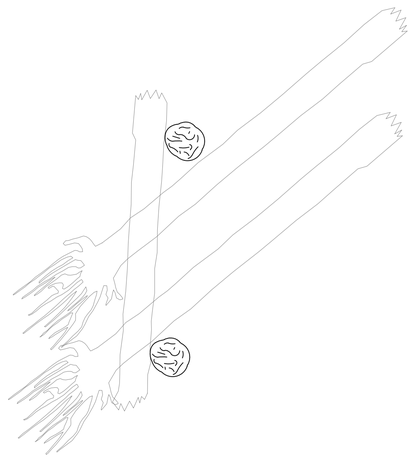

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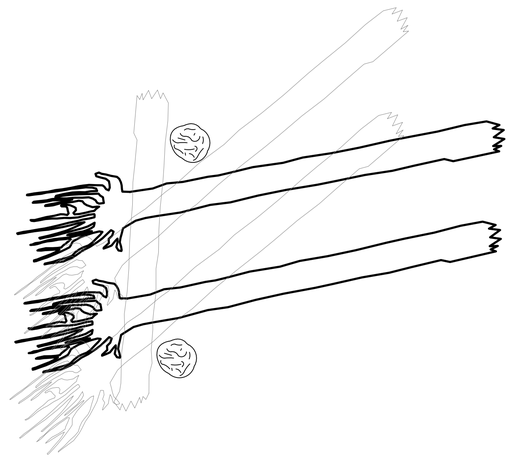

LAYER THREE
SCALE: NTS

TYPICAL THREE LAYER LWM STRUCTURE

DETAIL B
SCALE: NTS VARIES

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|
| | | | | |

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DECEMBER 2020

NICOLAS VANBUSKIRK — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

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| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION DETAILS TYPICAL LWM LAYER PLAN

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40165
SHT NO / TOTAL: # | REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-11:13:18am By kinseym2
XREFS: Stream Restoration.dwg; KCWTD-Dsize-TB-Border.dwg
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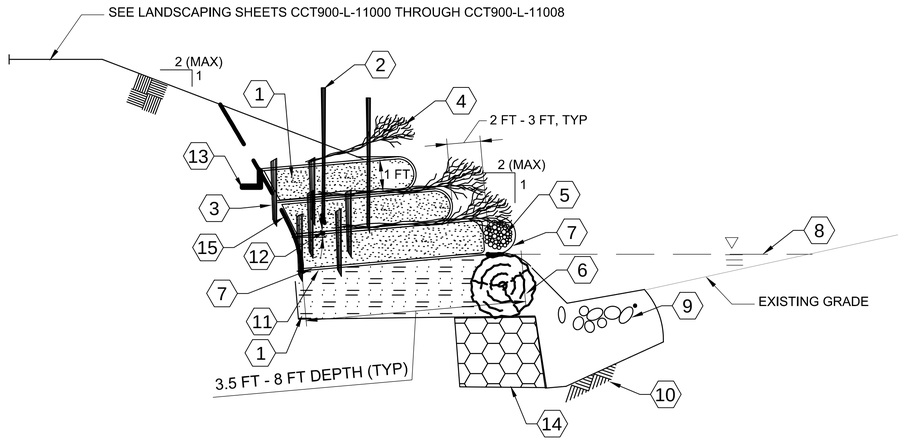
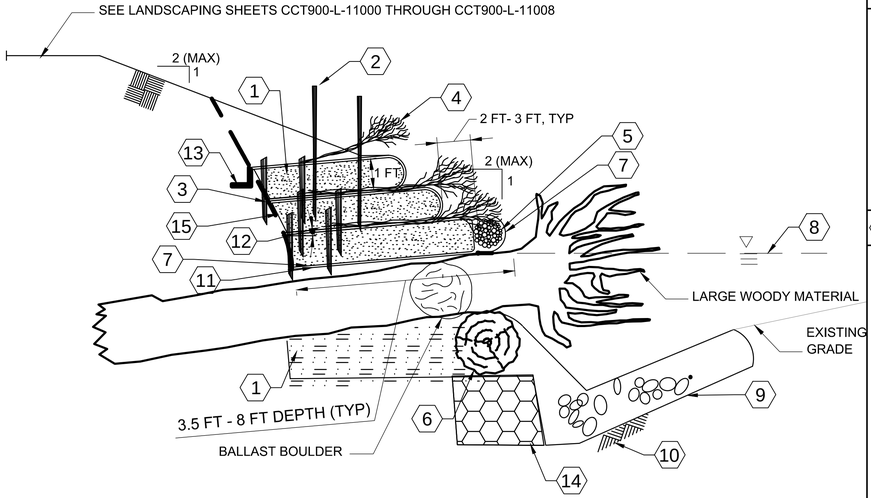



FABRIC-ENCAPSULATED SOIL LIFT (FESL)
UPPER SLOPE, AND BRUSHLAYER

DETAIL A
SCALE: NTS VARIES




FABRIC-ENCAPSULATED SOIL LIFT (FESL)
UPPER SLOPE, AND BRUSHLAYER WITH LWM

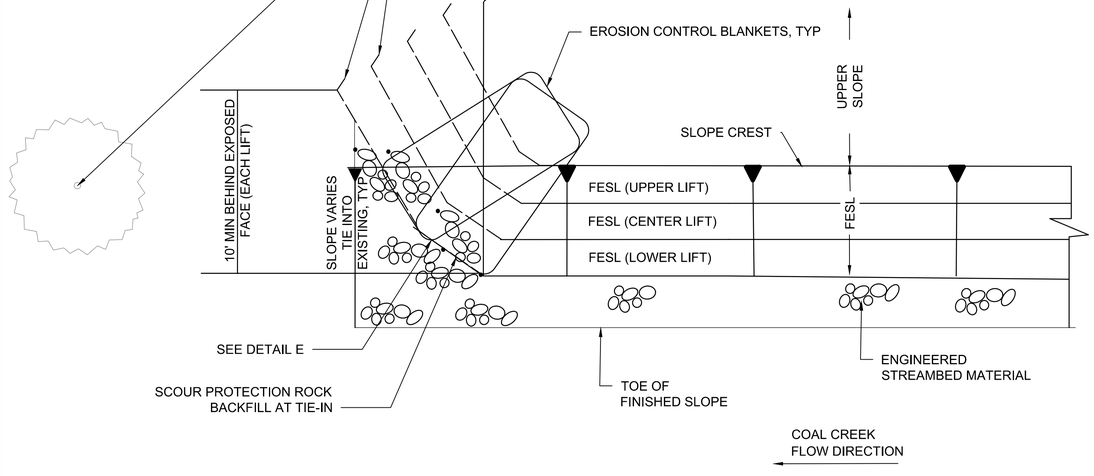
DETAIL B
SCALE: NTS VARIES

## GENERAL NOTES

1. SEE SPECIFICATIONS FOR SPECIES HARVEST, HANDLING, AND STORAGE DETAILS
2. ORIENT LIVE CUTTINGS WITH GROWING TIPS EXTENDING OUT OF SLOPE FACE
3. KEY IN FESL AT ALL LIMITS WHERE IT IS CONSTRUCTED

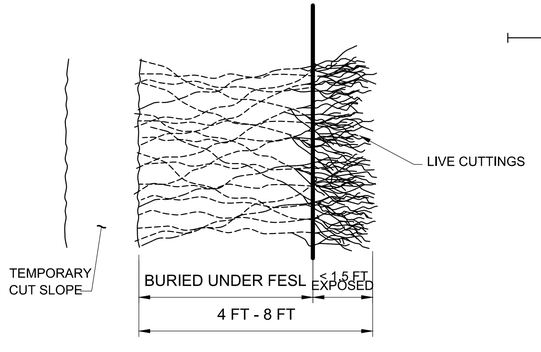
## KEY NOTES

1. COMPACTED EARTHFILL
2. LIVE STAKE, TYP
3. DEAD STAKE, TYP
4. BRUSHLAYER, TYP
5. LIVE FACINE
6. FOUNDATION LOG
7. COARSE EROSION CONTROL BLANKET
8. BANKFULL ELEVATION
9. STREAMBED AGGREGATE
10. UNDISTURBED SOIL
11. FINE EROSION CONTROL BLANKET
12. SLOPE 5 DEGREES FROM HORIZONTAL
13. ANCHOR TRENCH
14. KEY IN TOE ROCK (CLASS A RIPRAP)
15. TEMPORARY CUT SLOPE (FINAL SLOPE DETERMINED BY CONTRACTOR



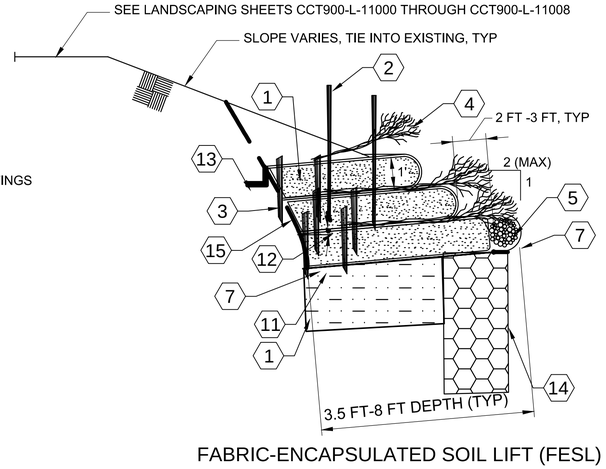

FESL END

DETAIL C
SCALE: NTS VARIES




BRUSHLAYER PLAN

DETAIL D
SCALE: NTS VARIES




FABRIC-ENCAPSULATED SOIL LIFT (FESL)
KEY IN TYPICAL

DETAIL E
SCALE: NTS VARIES

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

NICOLAS VANBUSKIRK — STATE OF WASHINGTON — 51132 — REGISTERED PROFESSIONAL ENGINEER
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| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS SHOWN |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CREEK RESTORATION DETAILS FABRIC ENCAPSULATED SOIL LIFTS (FESL)

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40166
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwiseworkingdir\brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\1123626-CCT900-C-40166.dwg | Layout: CCT900- C-40166
PLOTTED: Jul 29, 2020-11:14:08am By kinseym2
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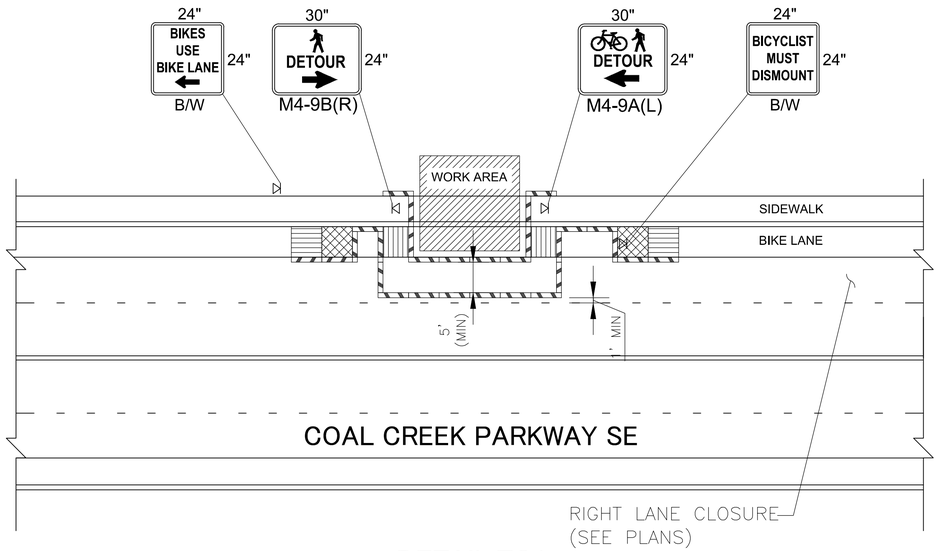
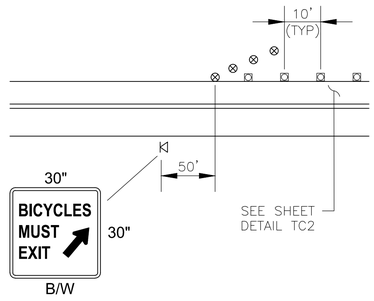
IMAGES:




## DETAIL TC1
## PEDESTRIAN AND BIKE LANE DETOUR
NOT TO SCALE




## DETAIL TC2
## BIKE LANE CLOSURE-
## BIKES USING SIDEWALK
NOT TO SCALE

### GENERAL NOTES

1. TRAFFIC CONTROL SHOWN ARE FOR NON–MOTORIZED TRAFFIC ONLY.
2. SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE NOTED.
3. SIGNS MAY BE PLACED ON PEDESTRIAN CHANNELIZATION DEVICES. TO MAINTAIN 5 FT (MIN) ACCESS ROUTE
4. RAMPS AND LANDINGS SHALL MEET ADA REQUIREMENTS.

### LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- TRAFFIC CONE OR PYLON
- PEDESTRIAN CHANNELIZING DEVICE
- TEMPORARY PEDESTRIAN RAMP LANDING
- TEMPORARY PEDESTRIAN RAMP
- WORK AREA

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|
| | | | | |

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DECEMBER 2020

MICHAEL R. RICHARD HEBDON — STATE OF WASHINGTON — 42986 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

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| DESIGNED/DRAWN: R. LEWIS | CHECKED: M. HENDRIX |
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| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TRAFFIC CONTROL DETAILS

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-40200
SHT NO / TOTAL: # / #
REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-11:15:18am By kinseym2
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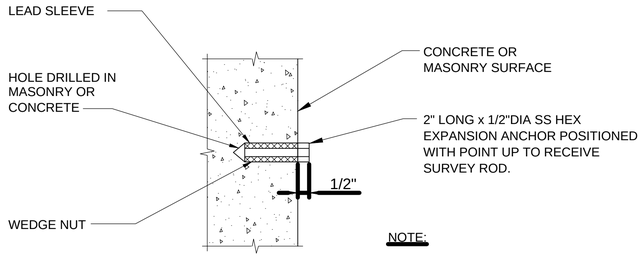


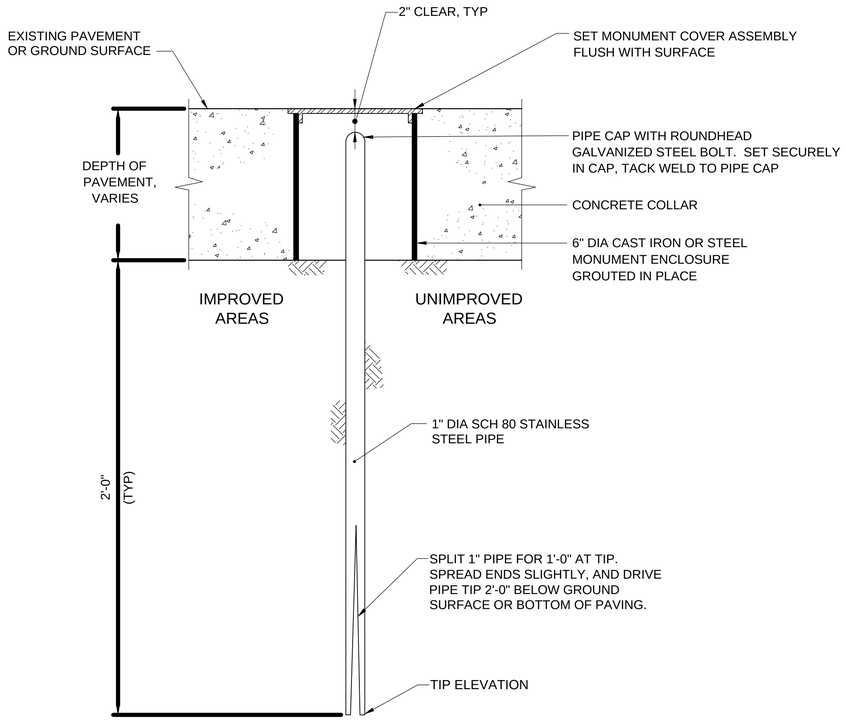

NOTE:

BONDED SURVEY TARGET IS AN ACCEPTABLE ALTERNATIVE.

**STRUCTURE SETTLEMENT POINT IN MASONRY OR CONCRETE WALL**

**DETAIL** 1 / --

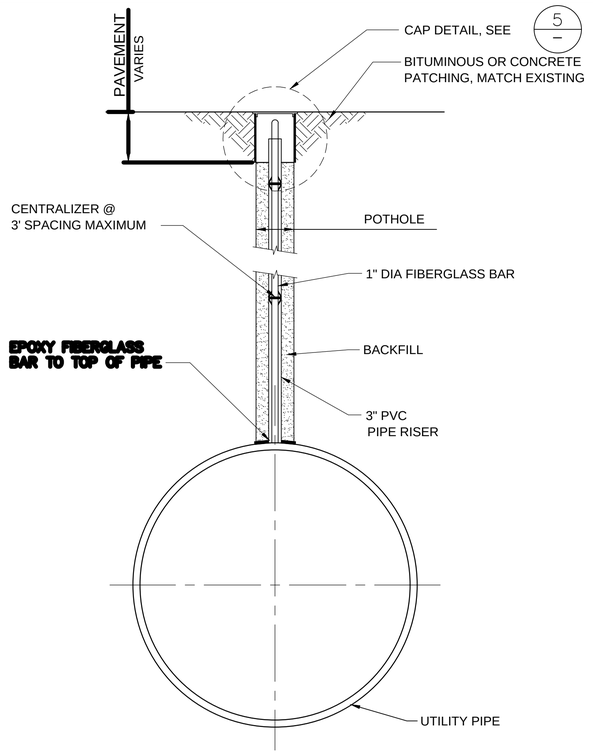
SCALE: NTS




**TYPICAL NEAR SURFACE SETTLEMENT POINT - FREE END DRIVE POINT ANCHOR**

**DETAIL** 4 / --

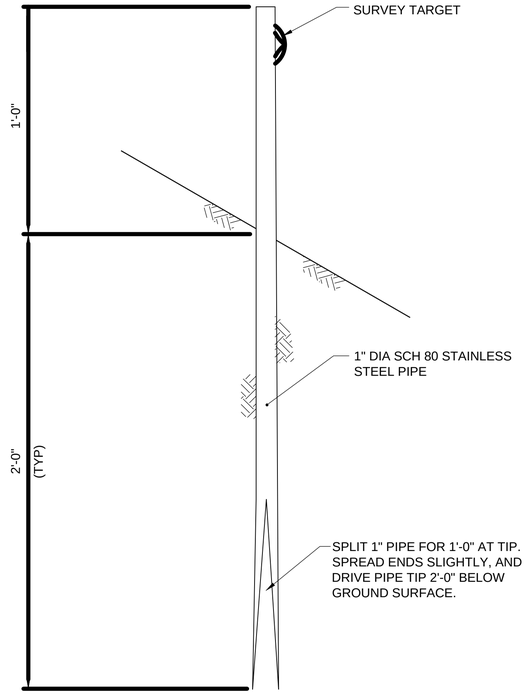
SCALE: NTS




**TYPICAL UTILITY SETTLEMENT POINT - FIXED END EXTENSOMETER**

**DETAIL** 2 / --

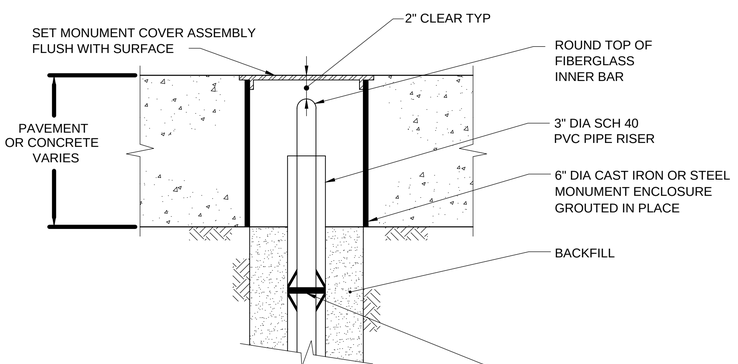
SCALE: NTS




**TYPICAL SLOPE MONITORING POINT**

**DETAIL** 3 / --

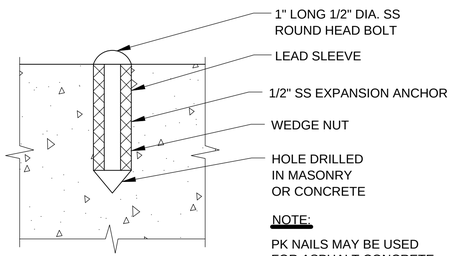
SCALE: NTS




**CAP**

**DETAIL** 5 / --

SCALE: NTS




NOTE:

PK NAILS MAY BE USED FOR ASPHALT CONCRETE PAVEMENT SURFACE.

**SURFACE SETTLEMENT POINT IN HORIZONTAL SURFACE**

**DETAIL** 6 / --

SCALE: NTS

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

DAVID CHARLES WARD — STATE OF WASHINGTON — 42341 — REGISTERED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: D. WARD | CHECKED: M. KUCKER |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: NTS |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SETTLEMENT MONITORING PLAN DETAILS

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-40220

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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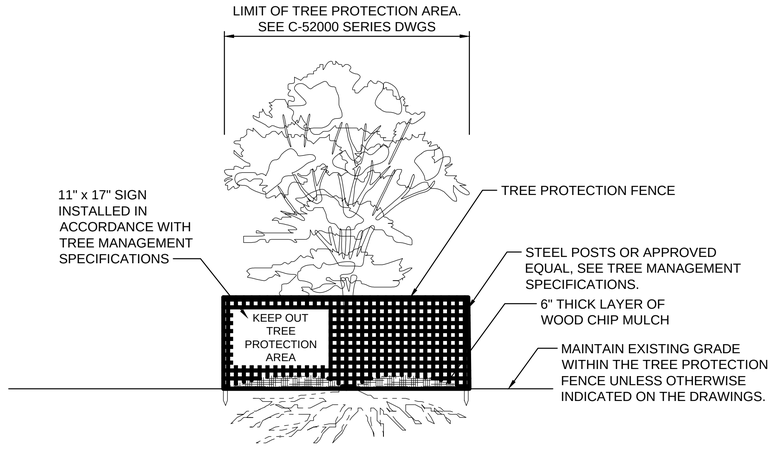
PLOTTED: Jul 29, 2020-12:00:35pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES: DavidWard.bmp; Instrument Details.tiff;




SECTION VIEW

NOTES:

1. NO PRUNING SHALL BE PERFORMED UNLESS UNDER THE DIRECTION OF A PROJECT ARBORIST.
2. NO EQUIPMENT SHALL BE STORED OR OPERATED INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
3. NO STORAGE OF MATERIALS SHALL OCCUR INSIDE THE PROTECTIVE FENCING.
4. UNAUTHORIZED ACTIVITIES IN TREE PROTECTION AREA SHALL REQUIRE EVALUATION BY PROJECT ARBORIST TO IDENTIFY IMPACTS AND MITIGATION REQUIRED.
5. EXPOSED ROOTS: FOR ROOTS > 1" DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVED DAMAGED PORTION AND INFORM PROJECT ARBORIST.
6. REFER TO DRAWINGS C-52000 THROUGH C-52008 FOR THE EXISTING TREE INVENTORY FOR PROTECTION REQUIREMENT NOTES.

TREE PROTECTION

DETAIL 1 / VAR

SCALE: NTS

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell : ch2m:

AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON — CHRISTOPHER BRIAN FRENCH — 21009 — REGISTERED LANDSCAPE ARCHITECT — NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION DETAILS

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-42000

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-12:01:11pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

## BELLEVUE EXISTING TREE INVENTORY

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 1 | Red alder | 11.8 | | 12.0 | Retain | | |
| 2 | Bigleaf Maple | 13.9 | | 14.0 | Retain | | |
| 3 | Red alder | 21.2 | | 21.0 | Retain | | |
| 4 | Red alder | 18.6 | | 19.0 | Retain | | |
| 5 | Red alder | 18.3 | | 18.0 | Retain | | |
| 6 | Bigleaf Maple | 18.1 | | 18.0 | Retain | | |
| 7 | Bigleaf Maple | 13.8 | | 14.0 | Retain | | |
| 8 | Bigleaf Maple | 14.6 | | 15.0 | Retain | | |
| 9 | Bigleaf Maple | 25.0 | 24/7.1 | 25.0 | Retain | | |
| 10 | Red alder | 17.4 | | 17.0 | Retain | | |
| 11 | W. hemlock | 8.9 | | 9.0 | Retain | | |
| 12 | Bigleaf Maple | 19.3 | | 19.0 | Retain | | |
| 13 | W. redcedar | 19.8 | | 20.0 | Retain | | |
| 14 | W. redcedar | 14.0 | | 14.0 | Retain | | |
| 15 | Bigleaf Maple | 9.5 | 1.9/9.3 | 10.0 | Retain | | |
| 16 | Red alder | 26.3 | | 26.0 | Retain | | |
| 17 | Bigleaf Maple | 33.9 | 31/13.1/4 | 34.0 | Retain | | |
| 18 | Bigleaf Maple | 16.2 | | 16.0 | Retain | | |
| 19 | Bigleaf Maple | 36.1 | 22.5/28.2 | 36.0 | Retain | | |
| 20 | Bigleaf Maple | 11.3 | | 11.0 | Retain | | |
| 21 | Bigleaf Maple | 26.9 | | 27.0 | Retain | | |
| 22 | W. hemlock | 12.3 | | 12.0 | Retain | | |
| 23 | Bigleaf Maple | 14.7 | | 15.0 | Retain | | |
| 24 | Red alder | 29.3 | | 29.0 | Retain | | |
| 25 | Bigleaf Maple | 15.5 | | 16.0 | Retain | | |
| 26 | Bigleaf Maple | 37.7 | | 38.0 | Retain | | |
| 27 | Red alder | 20.0 | | 20.0 | Retain | | |
| 28 | Bigleaf Maple | 21.1 | | 21.0 | Retain | | |
| 29 | Bigleaf Maple | 20.2 | | 20.0 | Retain | | |
| 30 | Bigleaf Maple | 20.3 | | 20.0 | Retain | | |
| 31 | Bigleaf Maple | 33.4 | | 33.0 | Retain | | |
| 32 | Bigleaf Maple | 15.7 | | 16.0 | Retain | | |
| 33 | Bigleaf Maple | 15.1 | | 15.0 | Retain | | |
| 34 | Bigleaf Maple | 8.8 | | 9.0 | Retain | | |
| 35 | Bigleaf Maple | 17.5 | | 18.0 | Retain | | |
| 36 | Bigleaf Maple | 27.5 | | 28.0 | Retain | | |
| 37 | Bigleaf Maple | 11.4 | | 11.0 | Retain | | |
| 38 | Bigleaf Maple | 12.5 | | 13.0 | Retain | | |
| 40 | Bigleaf Maple | 11.7 | 9.3/7.1 | 12.0 | Retain | | |
| 41 | Bigleaf Maple | 31.2 | | 31.0 | Retain | | |
| 42 | Bigleaf Maple | 21.8 | | 22.0 | Retain | | |
| 43 | Bigleaf Maple | 12.0 | | 12.0 | Retain | | |
| 44 | Bigleaf Maple | 19.9 | 17.8/8.9 | 20.0 | Retain | | |
| 45 | Bigleaf Maple | 50.2 | | 50.0 | Retain | | |
| 47 | Bigleaf Maple | 21.4 | | 21.0 | Retain | | |
| 48 | Vine maple | 6.9 | 4.2/1/2.4/3.0/3.1/2.2 | 7.0 | Retain | | |
| 49 | Bigleaf Maple | 28.0 | | 28.0 | Retain | | |
| 50 | Bigleaf Maple | 17.8 | | 18.0 | Retain | | |
| 51 | Bigleaf Maple | 6.6 | 5.9/2.9 | 7.0 | Retain | | |
| 52 | Bigleaf Maple | 6.2 | | 6.0 | Retain | | |
| 53 | Red alder | 8.2 | | 8.0 | Remove | | |
| 54 | Red alder | 12.1 | | 12.0 | Retain | | |
| 55 | Bigleaf Maple | 6.3 | | 6.0 | Retain | | |
| 57 | Red alder | 9.5 | | 10.0 | Retain | | |
| 58 | Bigleaf Maple | 33.5 | 32.7/7.2 | 34.0 | Retain | | |
| 59 | Bigleaf Maple | 16.2 | | 16.0 | Retain | | |
| 60 | Bigleaf Maple | 29.2 | 28.8/4.8 | 29.0 | Retain | | |
| 61 | Bigleaf Maple | 10.2 | | 10.0 | Retain | | |
| 62 | Bigleaf Maple | 35.0 | | 35.0 | Retain | | |
| 63 | Bigleaf Maple | 28.5 | 14.3/12.3/21.3 | 29.0 | Retain | | |
| 64 | W. redcedar | 9.8 | | 10.0 | Retain | | |
| 65 | Douglas-fir | 43.5 | | 44.0 | Retain | | |

## BELLEVUE EXISTING TREE INVENTORY (CONT.)

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 66 | Bigleaf Maple | 24.5 | 23.6/6.5 | 25.0 | Retain | | |
| 67 | Red alder | 21.9 | | 22.0 | Retain | | |
| 68 | W. redcedar | 30.9 | | 31.0 | Retain | | |
| 69 | Bigleaf Maple | 31.5 | 31.4/2.7 | 32.0 | Retain | | |
| 70 | W. redcedar | 12.2 | | 12.0 | Retain | | |
| 71 | Bigleaf Maple | 13.0 | | 13.0 | Retain | | |
| 72 | Bigleaf Maple | 36.1 | | 36.0 | Retain | | |
| 73 | W. redcedar | 12.4 | | 12.0 | Retain | | |
| 74 | Bigleaf Maple | 32.4 | 21.9/23.9 | 32.0 | Retain | | |
| 75 | Bigleaf Maple | 15.4 | 13.1/8.1 | 15.0 | Retain | | |
| 76 | W. redcedar | 22.7 | | 23.0 | Retain | | |
| 77 | Bigleaf Maple | 26.8 | | 27.0 | Retain | | |
| 78 | Bigleaf Maple | 26.9 | 21/16.8 | 27.0 | Retain | | |
| 79 | Bigleaf Maple | 42.4 | 16.9/32.5/21.4 | 42.0 | Retain | | |
| 80 | Bigleaf Maple | 25.8 | | 26.0 | Retain | | |
| 81 | Bigleaf Maple | 29.4 | 22.9/18.5 | 29.0 | Retain | | |
| 82 | Bigleaf Maple | 9.6 | | 10.0 | Remove | | |
| 83 | Bigleaf Maple | 32.4 | 24.3/21.5 | 32.0 | Retain | | |
| 84 | Bigleaf Maple | 30.0 | 18.8/23.4 | 30.0 | Retain | | |
| 85 | W. redcedar | 8.7 | 7.6/4.3 | 9.0 | Retain | | |
| 86 | Douglas-fir | 9.8 | | 10.0 | Retain | | |
| 87 | Douglas-fir | 25.2 | | 25.0 | Retain | | |
| 88 | Bigleaf Maple | 37.0 | | 37.0 | Remove | | |
| 89 | Bigleaf Maple | 26.4 | | 26.0 | Retain | | |
| 90 | Bigleaf Maple | 14.7 | | 15.0 | Retain | | |
| 91 | Bigleaf Maple | 32.9 | 29.1/15.4 | 33.0 | Remove | | |
| 92 | Bigleaf Maple | 37.4 | 30.8/19.8/7.7 | 37.0 | Remove | | |
| 93 | W. redcedar | 5.0 | | 6.0 | Remove | | |
| 94 | Bigleaf Maple | 27.4 | | 27.0 | Remove | | |
| 95 | Red alder | 12.5 | | 13.0 | Remove | | |
| 96 | Red alder | 7.0 | | 7.0 | Remove | | |
| 97 | Red alder | 11.3 | | 11.0 | Retain | | |
| 98 | Red alder | 13.9 | | 14.0 | Retain | | |
| 99 | Red alder | 6.9 | | 7.0 | Retain | | |
| 100 | Bigleaf Maple | 9.5 | | 10.0 | Retain | | |
| 101 | Bigleaf Maple | 4.8 | | 6.0 | Retain | | |
| 102 | Bigleaf Maple | 7.3 | | 7.0 | Retain | | |
| 103 | Bigleaf Maple | 51.9 | 14.4/22.8*/30.3*/32.3 | 52.0 | Retain | | |
| 104 | W. redcedar | 15.3 | | 15.0 | Retain | | |
| 105 | W. redcedar | 8.6 | | 9.0 | Retain | | |
| 106 | W. redcedar | 26.6 | | 27.0 | Retain | | |
| 107 | Douglas-fir | 37.3 | | 37.0 | Retain | | |
| 108 | Bigleaf Maple | 21.6 | 15.4/15.2* | 22.0 | Retain | | |
| 109 | Douglas-fir | 11.4 | | 11.0 | Retain | | |
| 110 | Bigleaf Maple | 11.9 | | 12.0 | Retain | | |
| 111 | Bigleaf Maple | 22.8 | | 23.0 | Retain | | |
| 112 | Bigleaf Maple | 16.1 | | 16.0 | Retain | | |
| 113 | Bigleaf Maple | 40.0 | 12.5/38 | 40.0 | Retain | | |
| 114 | Bigleaf Maple | 35.0 | 11.6/20.2/26.1 | 35.0 | Retain | | |
| 115 | Bigleaf Maple | 21.6 | | 22.0 | Retain | | |
| 116 | Bigleaf Maple | 11.7 | | 12.0 | Remove | | |
| 117 | Bigleaf Maple | 13.9 | | 14.0 | Remove | | |
| 118 | Black poplar? | 46.0 | | 46.0 | Retain | | |
| 119 | Black poplar? | 17.6 | | 18.0 | Retain | | |
| 120 | Red alder | 6.5 | | 7.0 | Remove | | |
| 121 | ??? | 7.3 | | 7.0 | Remove | | |
| 122 | Red alder | 9.6 | | 10.0 | Remove | | |
| 124 | Bigleaf Maple | 28.9 | 21.7/19.1 | 29.0 | Remove | | |
| 125 | Bigleaf Maple | 5.0 | | 6.0 | Retain | | |
| 126 | Bigleaf Maple | 26.2 | 10.3/21.1/11.7 | 26.0 | Retain | | |
| 127 | Douglas-fir | 23.9 | | 24.0 | Retain | | |
| 128 | Bigleaf Maple | 5.5 | | 6.0 | Retain | | |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | ch2m: AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON · CAMBRIAN CRAIG · 22000 · REGISTERED LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION TREE INVENTORY TABLE 1

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-52000

SHT NO / TOTAL: #

REV NO:

REFERENCE 0 1"

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-12:02:07pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; KC CC TREE-TABLE.dwg
IMAGES:

# BELLEVUE EXISTING TREE INVENTORY

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 129 | Douglas-fir | 39.9 | | 40.0 | Retain | | |
| 130 | W. redcedar | 13.0 | | 13.0 | Retain | | |
| 131 | Bigleaf Maple | 15.0 | | 15.0 | Retain | | |
| 132 | Bigleaf Maple | 13.9 | | 14.0 | Retain | | |
| 133 | Douglas-fir | 28.1 | | 28.0 | Retain | | |
| 134 | Douglas-fir | 31.9 | | 32.0 | Retain | | |
| 135 | W. redcedar | 17.1 | | 17.0 | Retain | | |
| 136 | Bigleaf Maple | 25.9 | | 26.0 | Retain | | |
| 137 | Bigleaf Maple | 19.7 | 7.2/15.3/10.1 | 20.0 | Retain | | |
| 138 | Bigleaf Maple | 17.8 | | 18.0 | Retain | | |
| 139 | W. redcedar | 16.5 | | 17.0 | Retain | | |
| 140 | Douglas-fir | 28.9 | | 29.0 | Retain | | |
| 141 | Bigleaf Maple | 21.9 | | 22.0 | Retain | | |
| 142 | Bigleaf Maple | 17.8 | | 18.0 | Retain | | |
| 143 | W. redcedar | 16.0 | | 16.0 | Retain | | |
| 144 | Bigleaf Maple | 32.0 | 15.9/13.6/24.2 | 32.0 | Retain | | |
| 145 | Bigleaf Maple | 24.6 | | 25.0 | Retain | | |
| 146 | Bigleaf Maple | 35.0 | | 35.0 | Retain | | |
| 147 | Bigleaf Maple | 13.6 | 13.4/2.3 | 14.0 | Retain | | |
| 148 | Bigleaf Maple | 18.3 | 7.2/16.8 | 18.0 | Retain | | |
| 149 | W. redcedar | 5.4 | | 6.0 | Retain | | |
| 150 | Bigleaf Maple | 28.3 | | 28.0 | Retain | | |
| 151 | W. hemlock | 12.6 | | 13.0 | Retain | | |
| 152 | Bigleaf Maple | 21.4 | 11.7/13.6/11.6 | 21.0 | Retain | | |
| 153 | Bigleaf Maple | 25.1 | 21/7.9/11.3 | 25.0 | Retain | | |
| 154 | Bigleaf Maple | 7.6 | 6.9/3.2 | 8.0 | Retain | | |
| 155 | Bigleaf Maple | 27.0 | 26.8/2.9 | 27.0 | Retain | | |
| 156 | W. redcedar | 8.1 | | 8.0 | Retain | | |
| 157 | Bigleaf Maple | 9.8 | | 10.0 | Retain | | |
| 158 | Bigleaf Maple | 17.2 | 5.2/16.4 | 17.0 | Retain | | |
| 159 | Bigleaf Maple | 30.8 | | 31.0 | Retain | | |
| 160 | Bigleaf Maple | 13.6 | | 14.0 | Retain | | |
| 161 | Bigleaf Maple | 20.1 | | 20.0 | Retain | | |
| 162 | Douglas-fir | 15.8 | | 16.0 | Retain | | |
| 163 | Bigleaf Maple | 17.9 | | 18.0 | Retain | | |
| 164 | W. redcedar | 12.4 | | 12.0 | Retain | | |
| 165 | Douglas-fir | 12.9 | | 13.0 | Retain | | |
| 166 | Bigleaf Maple | 20.7 | | 21.0 | Retain | | |
| 167 | Bigleaf Maple | 36.4 | 30.8/19.4 | 36.0 | Retain | | |
| 170 | Bigleaf Maple | 59.0 | | 59.0 | Retain | | |
| 171 | Douglas-fir | 34.5 | | 35.0 | Retain | | |
| 172 | Bigleaf Maple | 17.7 | | 18.0 | Retain | | |
| 173 | Bigleaf Maple | 16.7 | | 17.0 | Retain | | |
| 174 | Douglas-fir | 33.3 | | 33.0 | Retain | | |
| 175 | Bigleaf Maple | 23.4 | 20.6/11.1 | 23.0 | Retain | | |
| 176 | Bigleaf Maple | 5.5 | | 6.0 | Retain | | |
| 177 | W. redcedar | 6.4 | | 6.0 | Retain | | |
| 178 | Bigleaf Maple | 36.4 | 25.4/26.1 | 36.0 | Retain | | |
| 179 | Bigleaf Maple | 21.7 | | 22.0 | Retain | | |
| 180 | Bigleaf Maple | 17.1 | 7.4/7.9/13.3 | 17.0 | Retain | | |
| 181 | Bigleaf Maple | 7.7 | | 8.0 | Retain | | |
| 182 | Bigleaf Maple | 11.6 | | 12.0 | Retain | | |
| 183 | Bigleaf Maple | 16.3 | | 16.0 | Retain | | |
| 184 | W. redcedar | 12.4 | | 12.0 | Retain | | |
| 185 | Bigleaf Maple | 24.6 | | 25.0 | Retain | | |
| 186 | Red alder | 5.3 | | 6.0 | Remove | | |
| 187 | Red alder | 9.7 | | 10.0 | Remove | | |
| 188 | Red alder | 5.2 | | 6.0 | Remove | | |
| 189 | Red alder | 5.5 | | 6.0 | Remove | | |
| 190 | Red alder | 5.9 | | 6.0 | Remove | | |
| 191 | Red alder | 6.1 | | 6.0 | Remove | | |
| 192 | Red alder | 11.3 | | 11.0 | Retain | | |

# BELLEVUE EXISTING TREE INVENTORY (CONT.)

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 193 | Red alder | 6.6 | | 7.0 | Retain | | |
| 194 | Red alder | 6.8 | | 7.0 | Retain | | |
| 195 | Bigleaf Maple | 20.8 | | 21.0 | Retain | | |
| 196 | Bigleaf Maple | 15.0 | | 15.0 | Retain | | |
| 197 | Bigleaf Maple | 18.7 | | 19.0 | Retain | | |
| 198 | Bigleaf Maple | 14.4 | | 14.0 | Retain | | |
| 199 | Bigleaf Maple | 16.7 | | 17.0 | Retain | | |
| 200 | Bigleaf Maple | 19.0 | 5.4/18.2 | 19.0 | Retain | | |
| 201 | W. redcedar | 15.7 | | 16.0 | Retain | | |
| 202 | Douglas-fir | 44.3 | | 44.0 | Retain | | |
| 203 | W. redcedar | 21.5 | | 22.0 | Retain | | |
| 204 | Bigleaf Maple | 34.3 | | 34.0 | Retain | | |
| 205 | Douglas-fir | 22.1 | | 22.0 | Retain | | |
| 206 | Bigleaf Maple | 23.7 | | 24.0 | Retain | | |
| 207 | Bigleaf Maple | 11.3 | | 11.0 | Retain | | |
| 208 | W. redcedar | 20.5 | | 21.0 | Retain | | |
| 209 | W. redcedar | 21.4 | | 21.0 | Retain | | |
| 210 | Bigleaf Maple | 22.6 | | 23.0 | Retain | | |
| 211 | Bigleaf Maple | 39.7 | | 40.0 | Retain | | |
| 212 | Bigleaf Maple | 11.0 | | 11.0 | Retain | | |
| 213 | Bigleaf Maple | 7.4 | | 7.0 | Retain | | |
| 214 | Bigleaf Maple | 24.4 | | 24.0 | Retain | | |
| 215 | Douglas-fir | 18.4 | | 18.0 | Retain | | |
| 216 | Bigleaf Maple | 4.7 | | 6.0 | Retain | | |
| 217 | W. redcedar | 16.5 | 8.7/11.7/7.8 | 17.0 | Retain | | |
| 218 | Bigleaf Maple | 18.2 | 15.4/4.8/3.9/2.5/4.0/3.2/3.7/3.3 | 18.0 | Retain | | |
| 219 | Bigleaf Maple | 43.1 | 7.2/4.7/5.0/7.8/4.4/41.0 | 43.0 | Retain | | |
| 220 | Red alder | 8.5 | | 9.0 | Remove | | |
| 221 | Red alder | 7.0 | | 7.0 | Retain | | |
| 222 | Red alder | 8.3 | | 8.0 | Retain | | |
| 223 | Bigleaf Maple | 29.7 | | 30.0 | Retain | | |
| 224 | Bigleaf Maple | 18.7 | | 19.0 | Retain | | |
| 225 | Bigleaf Maple | 22.5 | | 23.0 | Retain | | |
| 226 | W. redcedar | 12.5 | | 13.0 | Retain | | |
| 227 | Bigleaf Maple | 47.9 | 25.1/40.8 | 48.0 | Retain | | |
| 228 | Bigleaf Maple | 9.5 | | 10.0 | Retain | | |
| 229 | Bigleaf Maple | 30.9 | | 31.0 | Retain | | |
| 230 | Bigleaf Maple | 29.7 | | 30.0 | Retain | | |
| 232 | W. redcedar | 36.7 | | 37.0 | Retain | | |
| 232 | W. redcedar | 36.7 | | 37.0 | Retain | | |
| 233 | Red alder | 12.7 | 10.2/7.6 | 13.0 | Remove | | |
| 234 | Red alder | 7.0 | | 7.0 | Remove | | |
| 235 | Red alder | 7.2 | | 7.0 | Remove | | |
| 236 | Red alder | 5.3 | | 6.0 | Remove | | |
| 237 | Red alder | 8.5 | | 9.0 | Remove | | |
| 238 | Bigleaf Maple | 10.6 | 8.9/5.8 | 11.0 | Retain | | |
| 239 | W. hemlock | 12.5 | | 13.0 | Retain | | |
| 240 | Bigleaf Maple | 8.2 | 6.7/4.7 | 8.0 | Retain | | |
| 241 | Red alder | 19.5 | | 20.0 | Retain | | |
| 242 | Bigleaf Maple | 24.2 | | 24.0 | Retain | | |
| 243 | Red alder | 18.6 | | 19.0 | Retain | | |
| 244 | Bigleaf Maple | 22.3 | | 22.0 | Retain | | |
| 244 | Bigleaf Maple | 22.3 | | 22.0 | Retain | | |
| 246 | Bigleaf Maple | 26.9 | 18.5/19.5 | 27.0 | Retain | | |
| 247 | Bigleaf Maple | 28.0 | | 28.0 | Retain | | |
| 248 | Douglas-fir | 34.2 | | 34.0 | Retain | | |
| 248 | Douglas-fir | 34.2 | | 34.0 | Retain | | |
| 249 | Bigleaf Maple | 25.4 | 20.7/14.8 | 25.0 | Retain | | |
| 250 | Bigleaf Maple | 37.6 | 25/15.8/23.2 | 38.0 | Retain | | |
| 251 | Bigleaf Maple | 20.8 | | 21.0 | Retain | | |
| 252 | Bigleaf Maple | 12.3 | | 12.0 | Retain | | |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON · BRIAN PAUL FRENCH · 22011 · REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

**TREE PROTECTION**
**TREE INVENTORY TABLE 2**

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-52001
SHT NO / TOTAL #
REV NO:

REFERENCE 1" 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\CCT900-C-52001.dwg | Layout: CCT900-C-52001
PLOTTED: Jul 29, 2020-12:03:10pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; KC CC TREE-TABLE.dwg; CCT900-C-52000.dwg
IMAGES:

REFERENCE 1" 0

# BELLEVUE EXISTING TREE INVENTORY

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 253 | Bigleaf Maple | 37.8 | | 38.0 | Remove | | |
| 254 | W. redcedar | 17.2 | | 17.0 | Remove | | |
| 255 | W. redcedar | 16.4 | | 16.0 | Remove | | |
| 256 | W. redcedar | 17.7 | | 18.0 | Remove | | |
| 257 | W. redcedar | 16.7 | | 17.0 | Remove | | |
| 258 | W. redcedar | 19.2 | | 19.0 | Retain | | |
| 259 | Bigleaf Maple | 19.9 | | 20.0 | Retain | | |
| 261 | W. redcedar | 7.2 | 5/5.2 | 7.0 | Retain | | |
| 262 | Bigleaf Maple | 23.8 | | 24.0 | Retain | | |
| 263 | Bigleaf Maple | 34.7 | | 35.0 | Retain | | |
| 264 | W. redcedar | 9.2 | | 9.0 | Retain | | |
| 265 | W. redcedar | 20.6 | | 21.0 | Remove | | |
| 266 | Bigleaf Maple | 22.2 | | 22.0 | Remove | | |
| 267 | Bigleaf Maple | 15.7 | | 16.0 | Retain | | |
| 268 | Bigleaf Maple | 25.3 | | 25.0 | Retain | | |
| 270 | Bigleaf Maple | 30.2 | | 30.0 | Retain | | |
| 271 | Bigleaf Maple | 9.6 | | 10.0 | Retain | | |
| 272 | Bigleaf Maple | 29.5 | 18.7/13.8/18.1 | 30.0 | Retain | | |
| 273 | W. redcedar | 19.7 | | 20.0 | Retain | | |
| 274 | Bigleaf Maple | 19.7 | | 20.0 | Retain | | |
| 275 | Bigleaf Maple | 14.0 | | 14.0 | Retain | | |
| 276 | Bigleaf Maple | 17.9 | | 18.0 | Retain | | |
| 277 | Bigleaf Maple | 12.5 | 2.3/12.3 | 13.0 | Retain | | |
| 278 | Bigleaf Maple | 13.1 | 11.1/1.6/6.8 | 13.0 | Retain | | |
| 279 | Bigleaf Maple | 29.7 | 14.3/26 | 30.0 | Retain | | |
| 280 | Bigleaf Maple | 12.7 | | 13.0 | Retain | | |
| 281 | Bigleaf Maple | 23.1 | 2.4/2.1/22.9 | 23.0 | Retain | | |
| 282 | Bigleaf Maple | 6.9 | 5/4.3/2.1 | 7.0 | Retain | | |
| 283 | Bigleaf Maple | 38.3 | 3/6/37.7 | 38.0 | Retain | | |
| 284 | Bigleaf Maple | 10.7 | | 11.0 | Retain | | |
| 285 | W. hemlock | 14.8 | | 15.0 | Retain | | |
| 286 | Bigleaf Maple | 23.5 | 23.2/2.6/2.5 | 24.0 | Retain | | |
| 287 | Bigleaf Maple | 14.0 | | 14.0 | Retain | | |
| 288 | Red alder | 6.7 | | 7.0 | Retain | | |
| 289 | Red alder | 11.5 | | 12.0 | Retain | | |
| 290 | Bigleaf Maple | 13.3 | | 13.0 | Retain | | |
| 291 | Douglas-fir | 10.5 | | 11.0 | Remove | | |
| 294 | Red alder | 11.8 | | 12.0 | Retain | | |
| 295 | Red alder | 9.3 | 4/8.4 | 9.0 | Retain | | |
| 296 | Red alder | 7.4 | | 7.0 | Retain | | |
| 297 | Red alder | 11.8 | | 12.0 | Retain | | |
| 298 | Red alder | 10.7 | | 11.0 | Retain | | |
| 299 | Red alder | 10.2 | | 10.0 | Retain | | |
| 300 | Red alder | 11.0 | | 11.0 | Retain | | |
| 301 | Red alder | 8.5 | | 9.0 | Retain | | |
| 302 | Red alder | 7.9 | | 8.0 | Retain | | |
| 303 | Red alder | 6.2 | | 6.0 | Retain | | |
| 304 | Red alder | 8.7 | | 9.0 | Retain | | |
| 305 | Red alder | 6.6 | | 7.0 | Retain | | |
| 306 | Red alder | 13.0 | | 13.0 | Retain | | |
| 307 | Red alder | 5.6 | | 6.0 | Retain | | |
| 308 | Red alder | 10.8 | | 11.0 | Retain | | |
| 309 | Red alder | 15.0 | | 15.0 | Retain | | |
| 310 | Bigleaf Maple | 28.8 | | 29.0 | Retain | | |
| 311 | Bigleaf Maple | 23.3 | | 23.0 | Retain | | |
| 312 | Bigleaf Maple | 12.3 | 11.6/4.2 | 12.0 | Retain | | |
| 313 | Bigleaf Maple | 43.5 | 32.2/29.3 | 44.0 | Retain | | |
| 314 | Black cottonwood | 36.9 | | 37.0 | Retain | | |
| 315 | Black cottonwood | 11.1 | | 11.0 | Remove | | |
| 316 | Black cottonwood | 40.3 | | 40.0 | Retain | | |
| 317 | Black cottonwood | 42.7 | | 43.0 | Remove | | |
| 318 | Red alder | 8.8 | | 9.0 | Retain | | |

# BELLEVUE EXISTING TREE INVENTORY (CONT.)

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 318 | Red alder | 8.8 | | 9.0 | Retain | | |
| 319 | Red alder | 12.3 | | 12.0 | Retain | | |
| 320 | Red alder | 7.4 | | 7.0 | Retain | | |
| 321 | Bigleaf Maple | 8.2 | 7.6/3 | 8.0 | Retain | | |
| 322 | Red alder | 7.8 | | 8.0 | Retain | | |
| 323 | Black cottonwood | 33.2 | | 33.0 | Retain | | |
| 324 | Red alder | 10.0 | | 10.0 | Remove | | |
| 325 | Red alder | 8.5 | | 9.0 | Retain | | |
| 326 | Red alder | 8.6 | | 9.0 | Retain | | |
| 327 | Black cottonwood | 13.2 | | 13.0 | Retain | | |
| 328 | Red alder | 12.0 | | 12.0 | Retain | | |
| 329 | Red alder | 7.3 | | 7.0 | Remove | | |
| 330 | Red alder | 10.3 | | 10.0 | Retain | | |
| 331 | Red alder | 9.1 | | 9.0 | Retain | | |
| 332 | W. redcedar | 8.2 | 2.6/7.8 | 8.0 | Retain | | |
| 333 | Black cottonwood | 25.5 | | 26.0 | Retain | | |
| 334 | Red alder | 11.8 | | 12.0 | Retain | | |
| 335 | Red alder | 14.6 | | 15.0 | Retain | | |
| 336 | Red alder | 6.3 | | 6.0 | Retain | | |
| 337 | Red alder | 10.7 | | 11.0 | Retain | | |
| 338 | Red alder | 11.5 | | 12.0 | Retain | | |
| 339 | Red alder | 10.9 | | 11.0 | Retain | | |
| 340 | W. redcedar | 6.6 | 5.2/4.1 | 7.0 | Retain | | |
| 343 | Black cottonwood | 15.7 | | 16.0 | Retain | | |
| 344 | Red alder | 8.3 | | 8.0 | Retain | | |
| 345 | Red alder | 8.0 | | 8.0 | Retain | | |
| 346 | Red alder | 5.3 | | 6.0 | Retain | | |
| 347 | Red alder | 8.9 | | 9.0 | Retain | | |
| 348 | Red alder | 7.8 | | 8.0 | Retain | | |
| 349 | Red alder | 7.6 | | 8.0 | Retain | | |
| 350 | W. redcedar | 6.9 | | 7.0 | Retain | | |
| 351 | Red alder | 6.2 | | 6.0 | Retain | | |
| 352 | Red alder | 6.5 | | 7.0 | Retain | | |
| 353 | W. redcedar | 8.6 | | 9.0 | Remove | | |
| 354 | Red alder | 6.1 | | 6.0 | Retain | | |
| 355 | Red alder | 5.2 | | 6.0 | Remove | | |
| 356 | Douglas-fir | 7.4 | | 7.0 | Remove | | |
| 357 | Red alder | 8.0 | | 8.0 | Remove | | |
| 358 | Red alder | 9.6 | | 10.0 | Retain | | |
| 359 | Red alder | 6.0 | | 6.0 | Remove | | |
| 360 | Red alder | 6.3 | | 6.0 | Retain | | |
| 361 | Red alder | 6.8 | | 7.0 | Retain | | |
| 362 | Red alder | 7.3 | | 7.0 | Retain | | |
| 363 | Red alder | 8.6 | | 9.0 | Retain | | |
| 364 | Red alder | 6.4 | | 6.0 | Retain | | |
| 365 | Red alder | 7.8 | | 8.0 | Retain | | |
| 366 | Red alder | 6.3 | | 6.0 | Retain | | |
| 367 | Red alder | 5.8 | | 6.0 | Retain | | |
| 368 | Red alder | 7.7 | | 8.0 | Retain | | |
| 369 | Red alder | 6.5 | | 7.0 | Retain | | |
| 370 | Red alder | 8.0 | | 8.0 | Retain | | |
| 371 | Red alder | 6.4 | | 6.0 | Retain | | |
| 372 | Red alder | 6.4 | | 6.0 | Retain | | |
| 373 | Red alder | 7.0 | | 7.0 | Retain | | |
| 374 | Red alder | 6.2 | | 6.0 | Retain | | |
| 375 | Red alder | 11.6 | | 12.0 | Retain | | |
| 376 | Red alder | 11.5 | | 12.0 | Retain | | |
| 377 | Red alder | 8.2 | | 8.0 | Retain | | |
| 378 | Red alder | 8.4 | | 8.0 | Retain | | |
| 379 | Red alder | 11.5 | | 12.0 | Retain | | |
| 380 | W. redcedar | 5.4 | | 6.0 | Retain | | |
| 381 | W. redcedar | 6.0 | | 6.0 | Retain | | |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON · JOAN BRIAN FRENCH · 21777 · REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

**TREE PROTECTION TREE INVENTORY TABLE 3**

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-52002
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\CCT900-C-52002.dwg | Layout: CCT900-C-52002
PLOTTED: Jul 29, 2020-12:04:08pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; KC CC TREE-TABLE.dwg; CCT900-C-52000.dwg
IMAGES:

## BELLEVUE EXISTING TREE INVENTORY

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 382 | W. redcedar | 6.0 | | 6.0 | Retain | | |
| 383 | W. redcedar | 6.1 | | 6.0 | Retain | | |
| 384 | Bigleaf Maple | 18.1 | | 18.0 | Retain | | |
| 385 | Bigleaf Maple | 16.0 | | 16.0 | Retain | | |
| 386 | W. redcedar | 5.7 | | 6.0 | Retain | | |
| 387 | W. redcedar | 5.6 | | 6.0 | Retain | | |
| 388 | Red alder | 8.2 | | 8.0 | Retain | | |
| 389 | W. redcedar | 5.8 | | 6.0 | Retain | | |
| 390 | Red alder | 9.9 | | 10.0 | Retain | | |
| 391 | Red alder | 6.2 | | 6.0 | Retain | | |
| 392 | W. redcedar | 5.3 | | 6.0 | Retain | | |
| 393 | Red alder | 7.9 | | 8.0 | Retain | | |
| 394 | Red alder | 7.2 | | 7.0 | Retain | | |
| 396 | Red alder | 7.7 | | 8.0 | Retain | | |
| 396 | Red alder | 7.7 | | 8.0 | Retain | | |
| 397 | Red alder | 10.0 | | 10.0 | Retain | | |
| 398 | Red alder | 11.7 | | 12.0 | Retain | | |
| 400 | Red alder | 13.2 | | 13.0 | Retain | | |
| 401 | Bigleaf Maple | 9.8 | | 10.0 | Retain | | |
| 402 | Red alder | 14.2 | | 14.0 | Retain | | |
| 403 | W. redcedar | 6.4 | 5.9/1/2.4 | 6.0 | Retain | | |
| 404 | W. redcedar | 7.5 | 6.3/4.1 | 8.0 | Retain | | |
| 405 | Red alder | 13.8 | | 14.0 | Retain | | |
| 406 | Red alder | 11.5 | | 12.0 | Retain | | |
| 407 | Bigleaf Maple | 11.8 | | 12.0 | Retain | | |
| 408 | Red alder | 8.0 | | 8.0 | Retain | | |
| 409 | Bigleaf Maple | 13.6 | | 14.0 | Retain | | |
| 410 | Bigleaf Maple | 8.6 | | 9.0 | Retain | | |
| 411 | Bigleaf Maple | 13.7 | | 14.0 | Retain | | |
| 412 | Red alder | 18.5 | | 19.0 | Remove | | |
| 413 | Bigleaf Maple | 19.3 | | 19.0 | Remove | | |
| 414 | Bigleaf Maple | 7.3 | | 7.0 | Remove | | |
| 415 | Red alder | 9.4 | 8.7/3.6 | 9.0 | Remove | | |
| 416 | Bigleaf Maple | 9.3 | | 9.0 | Remove | | |
| 417 | Bigleaf Maple | 23.1 | | 23.0 | Remove | | |
| 418 | Bigleaf Maple | 8.9 | | 9.0 | Remove | | |
| 419 | Bigleaf Maple | 11.5 | | 12.0 | Remove | | |
| 420 | Bigleaf Maple | 9.0 | | 9.0 | Remove | | |
| 421 | Bigleaf Maple | 16.0 | | 16.0 | Remove | | |
| 422 | Bigleaf Maple | 15.5 | | 16.0 | Remove | | |
| 423 | Bigleaf Maple | 11.9 | | 12.0 | Remove | | |
| 424 | Bigleaf Maple | 5.6 | | 6.0 | Remove | | |
| 426 | Red alder | 21.0 | | 21.0 | Remove | | |
| 426 | Red alder | 21.0 | | 21.0 | Remove | | |
| 427 | Red alder | 16.3 | | 16.0 | Remove | | |
| 427 | Red alder | 16.3 | | 16.0 | Remove | | |
| 428 | Red alder | 32.1 | | 32.0 | Remove | | |
| 428 | Red alder | 32.1 | | 32.0 | Remove | | |
| 429 | Red alder | 6.5 | | 7.0 | Remove | | |
| 430 | Bigleaf Maple | 11.4 | 10.2/5.1 | 11.0 | Retain | | |
| 431 | Bigleaf Maple | 18.6 | 10.8/15.1 | 19.0 | Retain | | |
| 432 | Red alder | 17.5 | | 18.0 | Remove | | |
| 433 | Red alder | 26.3 | | 26.0 | Remove | | |
| 434 | Bigleaf Maple | 29.2 | 7.3/28.3 | 29.0 | Remove | | |
| 435 | W. redcedar | 28.7 | | 29.0 | Remove | | |
| 436 | W. redcedar | 6.2 | | 6.0 | Remove | | |
| 437 | Red alder | 8.5 | | 9.0 | Remove | | |
| 438 | Bigleaf Maple | 6.0 | 5.4/2.5 | 6.0 | Remove | | |
| 439 | Red alder | 8.8 | | 9.0 | Remove | | |
| 440 | Red alder | 15.3 | | 15.0 | Remove | | |
| 441 | Red alder | 12.5 | | 13.0 | Retain | | |
| 442 | Red alder | 6.8 | | 7.0 | Retain | | |

## BELLEVUE EXISTING TREE INVENTORY (CONT.)

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 443 | Red alder | 12.2 | | 12.0 | Remove | | |
| 444 | Black cottonwood | 34.3 | | 34.0 | Remove | | |
| 445 | Bigleaf Maple | 7.5 | 6.7/3.3 | 8.0 | Remove | | |
| 446 | Red alder | 10.1 | | 10.0 | Retain | | |
| 447 | Red alder | 6.4 | | 6.0 | Retain | | |
| 448 | Red alder | 13.4 | | 13.0 | Remove | | |
| 449 | Red alder | 12.1 | | 12.0 | Remove | | |
| 450 | Red alder | 9.8 | | 10.0 | Retain | | |
| 451 | Bigleaf Maple | 7.3 | 6.9/2.4 | 7.0 | Remove | | |
| 452 | W. redcedar | 19.4 | | 19.0 | Retain | | |
| 453 | Red alder | 12.7 | | 13.0 | Retain | | |
| 454 | Bigleaf Maple | 8.8 | | 9.0 | Retain | | |
| 455 | Red alder | 9.8 | | 10.0 | Retain | | |
| 457 | Red alder | 9.7 | | 10.0 | Retain | | |
| 458 | Red alder | 7.1 | | 7.0 | Retain | | |
| 459 | Red alder | 8.0 | | 8.0 | Retain | | |
| 460 | Red alder | 7.0 | | 7.0 | Retain | | |
| 461 | Red alder | 11.1 | | 11.0 | Retain | | |
| 462 | W. redcedar | 6.4 | | 6.0 | Retain | | |
| 463 | Bigleaf Maple | 13.5 | | 14.0 | Retain | | |
| 464 | Red alder | 20.4 | | 20.0 | Retain | | |
| 464 | Red alder | 20.4 | | 20.0 | Retain | | |
| 465 | ??? | 23.4 | | 23.0 | Retain | | |
| 466 | Red alder | 9.8 | | 10.0 | Retain | | |
| 467 | Black cottonwood | 31.0 | | 31.0 | Retain | | |
| 468 | Red alder | 6.5 | | 7.0 | Retain | | |
| 469 | Bigleaf Maple | 43.3 | 8.2/14.4/21.3/20/8.5/19.1/17.6 | 43.0 | Retain | | |
| 470 | Bigleaf Maple | 44.5 | 24.2/10.3/19.1/12.9/16.3/21.1/7.1 | 45.0 | Retain | | |
| 471 | Black cottonwood | 36.4 | | 36.0 | Retain | | |
| 472 | Bigleaf Maple | 27.5 | 12.7/24.4 | 28.0 | Retain | | |
| 473 | Douglas-fir | 10.2 | | 10.0 | Retain | | |
| 474 | Bigleaf Maple | 17.8 | 8.1/15.7/2.5 | 18.0 | Retain | | |
| 475 | Douglas-fir | 10.9 | | 11.0 | Retain | | |
| 476 | Bigleaf Maple | 7.9 | 5.0/5.1/3.4 | 8.0 | Retain | | |
| 477 | Douglas-fir | 30.4 | | 30.0 | Retain | | |
| 478 | Bigleaf Maple | 7.5 | 4.3/3.0/3.9/3.7 | 8.0 | Retain | | |
| 479 | Bigleaf Maple | 5.0 | 2.9/3.8/1.4 | 6.0 | Retain | | |
| 480 | Douglas-fir | 14.3 | | 14.0 | Retain | | |
| 481 | Bigleaf Maple | 11.5 | 7.5/7.0/5.2 | 12.0 | Retain | | |
| 482 | Douglas-fir | 11.1 | | 11.0 | Retain | | |
| 483 | Bigleaf Maple | 11.6 | 9.9/3.2/2.1/2.3/3.6/1.9 | 12.0 | Retain | | |
| 484 | Douglas-fir | 8.2 | | 8.0 | Retain | | |
| 485 | Douglas-fir | 24.4 | | 24.0 | Retain | | |
| 486 | Bigleaf Maple | 6.8 | 3.3/4.6/3.7 | 7.0 | Retain | | |
| 487 | Douglas-fir | 9.0 | | 9.0 | Retain | | |
| 488 | Douglas-fir | 6.9 | | 7.0 | Retain | | |
| 489 | Douglas-fir | 5.8 | | 6.0 | Retain | | |
| 490 | Douglas-fir | 13.5 | | 14.0 | Retain | | |
| 491 | Red alder | 6.7 | | 7.0 | Retain | | |
| 492 | Douglas-fir | 6.6 | | 7.0 | Retain | | |
| 493 | Douglas-fir | 9.6 | | 10.0 | Retain | | |
| 494 | Douglas-fir | 7.6 | | 8.0 | Retain | | |
| 495 | Red alder | 8.2 | | 8.0 | Retain | | |
| 496 | Douglas-fir | 9.1 | | 9.0 | Retain | | |
| 497 | W. redcedar | 13.7 | | 14.0 | Retain | | |
| 498 | Bigleaf Maple | 13.4 | 5.7/12.1 | 13.0 | Retain | | |
| 499 | Douglas-fir | 7.7 | | 8.0 | Retain | | |
| 500 | Douglas-fir | 10.6 | | 11.0 | Retain | | |
| 501 | Norway Maple | 8.7 | | 9.0 | Retain | | |
| 501 | Norway Maple | 8.7 | | 9.0 | Retain | | |
| 502 | Bigleaf Maple | 58.0 | 16.8/24.9/37.7/32.3 | 58.0 | Retain | | |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON — CHRISTOPHER BRIAN JACOBSEN — 22000 — REGISTERED LANDSCAPE ARCHITECT — MY SIGN EXP. 10/05/2021

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION TREE INVENTORY TABLE 4

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-52003

SHT NO / TOTAL #

REV NO:

REFERENCE 0 1"

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\CCT900-C-52003.dwg | Layout: CCT900-C-52003
PLOTTED: Jul 29, 2020-12:05:18pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; KC CC TREE-TABLE.dwg; CCT900-C-52000.dwg
IMAGES:

# BELLEVUE EXISTING TREE INVENTORY

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 503 | Douglas-fir | 26.5 | | 27.0 | Retain | | |
| 504 | Bigleaf Maple | 28.5 | | 29.0 | Retain | | |
| 505 | Bigleaf Maple | 15.7 | | 16.0 | Retain | | |
| 506 | Bigleaf Maple | 14.9 | | 15.0 | Retain | | |
| 508 | Bigleaf Maple | 12.8 | | 13.0 | Retain | | |
| 509 | Bigleaf Maple | 23.8 | 16.7/17 | 24.0 | Retain | | |
| 510 | Bigleaf Maple | 16.4 | | 16.0 | Retain | | |
| 510 | Bigleaf Maple | 16.4 | | 16.0 | Retain | | |
| 511 | Bigleaf Maple | 28.4 | | 28.0 | Remove | | |
| 512 | Bigleaf Maple | 8.4 | | 8.0 | Retain | | |
| 513 | Bigleaf Maple | 9.2 | | 9.0 | Retain | | |
| 514 | Bigleaf Maple | 16.5 | | 17.0 | Retain | | |
| 515 | Bigleaf Maple | 8.4 | | 8.0 | Retain | | |
| 516 | Bigleaf Maple | 6.8 | | 7.0 | Retain | | |
| 517 | Bigleaf Maple | 34.3 | 17.8/18.5/20.0/6.2/8.9 | 34.0 | Retain | | |
| 518 | Bigleaf Maple | 23.5 | | 24.0 | Retain | | |
| 519 | Red alder | 15.0 | | 15.0 | Retain | | |
| 520 | Red alder | 13.2 | | 13.0 | Retain | | |
| 521 | Red alder | 12.8 | | 13.0 | Retain | | |
| 522 | Bigleaf Maple | 12.0 | | 12.0 | Retain | | |
| 523 | Bigleaf Maple | 18.4 | | 18.0 | Retain | | |
| 524 | Bigleaf Maple | 19.5 | | 20.0 | Retain | | |
| 525 | Bigleaf Maple | 13.3 | | 13.0 | Retain | | |
| 526 | Bigleaf Maple | 20.1 | | 20.0 | Retain | | |
| 527 | Bigleaf Maple | 32.4 | 20.8/24.9 | 32.0 | Retain | | |
| 528 | Bigleaf Maple | 17.2 | | 17.0 | Retain | | |
| 529 | Bigleaf Maple | 19.5 | | 20.0 | Retain | | |
| 530 | Red alder | 7.7 | | 8.0 | Retain | | |
| 531 | Red alder | 33.3 | 24.7/22.3 | 33.0 | Retain | | |
| 532 | Red alder | 7.3 | | 7.0 | Retain | | |
| 533 | Red alder | 5.7 | | 6.0 | Retain | | |
| 534 | Red alder | 10.1 | | 10.0 | Retain | | |
| 535 | Douglas-fir | 15.1 | | 15.0 | Retain | | |
| 536 | Red alder | 10.2 | | 10.0 | Retain | | |
| 537 | Red alder | 10.9 | | 11.0 | Retain | | |
| 538 | Bigleaf Maple | 15.8 | | 16.0 | Retain | | |
| 539 | Red alder | 14.0 | | 14.0 | Retain | | |
| 541 | Red alder | 11.0 | | 11.0 | Retain | | |
| 542 | Black cottonwood | 31.9 | | 32.0 | Retain | | |
| 543 | Black cottonwood | 33.2 | | 33.0 | Retain | | |
| 544 | Black cottonwood | 33.4 | | 33.0 | Retain | | |
| 545 | Red alder | 13.3 | | 13.0 | Retain | | |
| 546 | Red alder | 6.6 | | 7.0 | Retain | | |
| 547 | Red alder | 14.3 | | 14.0 | Retain | | |
| 548 | Red alder | 11.5 | | 12.0 | Retain | | |
| 549 | Red alder | 8.8 | | 9.0 | Retain | | |
| 550 | Red alder | 9.2 | | 9.0 | Retain | | |
| 551 | Red alder | 8.2 | | 8.0 | Retain | | |
| 552 | Red alder | 5.7 | | 6.0 | Retain | | |
| 553 | Red alder | 5.5 | | 6.0 | Retain | | |
| 554 | Red alder | 14.2 | | 14.0 | Retain | | |
| 555 | Red alder | 7.2 | | 7.0 | Retain | | |
| 556 | Red alder | 5.7 | | 6.0 | Retain | | |
| 557 | Red alder | 7.4 | | 7.0 | Retain | | |
| 558 | Bigleaf Maple | 5.9 | | 6.0 | Retain | | |
| 559 | Red alder | 6.9 | | 7.0 | Retain | | |
| 560 | Red alder | 7.2 | | 7.0 | Retain | | |
| 561 | Red alder | 9.3 | | 9.0 | Retain | | |
| 562 | Douglas-fir | 6.2 | | 6.0 | Retain | | |
| 563 | Red alder | 6.7 | | 7.0 | Retain | | |
| 564 | Red alder | 7.1 | | 7.0 | Retain | | |
| 565 | Red alder | 7.3 | | 7.0 | Retain | | |

# BELLEVUE EXISTING TREE INVENTORY (CONT.)

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 566 | Red alder | 7.9 | | 8.0 | Retain | | |
| 567 | W. redcedar | 10.0 | | 10.0 | Retain | | |
| 568 | W. redcedar | 7.5 | | 8.0 | Remove | | |
| 569 | Bigleaf Maple | 14.4 | 10.5/9.9 | 14.0 | Retain | | |
| 570 | Douglas-fir | 11.5 | | 12.0 | Retain | | |
| 571 | Douglas-fir | 37.7 | | 38.0 | Retain | | |
| 572 | Bigleaf Maple | 10.9 | | 11.0 | Retain | | |
| 573 | Bigleaf Maple | 5.7 | | 6.0 | Retain | | |
| 574 | Douglas-fir | 7.6 | | 8.0 | Remove | | |
| 575 | Red alder | 10.9 | 9.6/5.1 | 11.0 | Remove | | |
| 576 | Bigleaf Maple | 7.2 | | 7.0 | Remove | | |
| 577 | Red alder | 13.5 | | 14.0 | Remove | | |
| 578 | Red alder | 11.9 | | 12.0 | Retain | | |
| 579 | W. redcedar | 9.7 | | 10.0 | Remove | | |
| 580 | Red alder | 13.9 | | 14.0 | Remove | | |
| 581 | Douglas-fir | 31.4 | | 31.0 | Retain | | |
| 582 | Douglas-fir | 19.8 | | 20.0 | Retain | | |
| 583 | Red alder | 7.0 | | 7.0 | Remove | | |
| 584 | Norway Maple | 14.4 | | 14.0 | Remove | | |
| 585 | Bigleaf Maple | 19.0 | | 19.0 | Retain | | |
| 586 | Bigleaf Maple | 16.9 | | 17.0 | Retain | | |
| 587 | Bigleaf Maple | 25.5 | | 26.0 | Remove | | |
| 588 | Bigleaf Maple | 16.7 | | 17.0 | Retain | | |
| 589 | Douglas-fir | 29.4 | | 29.0 | Retain | | |
| 590 | Douglas-fir | 24.1 | | 24.0 | Retain | | |
| 591 | Bigleaf Maple | 18.9 | | 19.0 | Retain | | |
| 592 | Douglas-fir | 26.5 | | 27.0 | Remove | | |
| 593 | Douglas-fir | 9.4 | | 9.0 | Remove | | |
| 594 | Douglas-fir | 9.2 | | 9.0 | Remove | | |
| 595 | Douglas-fir | 28.2 | | 28.0 | Remove | | |
| 596 | Douglas-fir | 30.9 | | 31.0 | Remove | | |
| 597 | Douglas-fir | 10.9 | | 11.0 | Remove | | |
| 598 | Douglas-fir | 10.4 | | 10.0 | Remove | | |
| 599 | Bigleaf Maple | 32.8 | 24.9/21.4 | 33.0 | Remove | | |
| 600 | Bigleaf Maple | 8.2 | | 8.0 | Remove | | |
| 601 | Douglas-fir | 7.7 | | 8.0 | Retain | | |
| 601 | Douglas-fir | 7.7 | | 8.0 | Remove | | |
| 602 | Douglas-fir | 14.6 | | 15.0 | Remove | | |
| 603 | Bigleaf Maple | 6.2 | | 6.0 | Remove | | |
| 604 | Douglas-fir | 6.4 | | 6.0 | Remove | | |
| 605 | Douglas-fir | 28.8 | | 29.0 | Remove | | |
| 606 | Bitter Cherry | 5.2 | 4.2/3.1 | 6.0 | Remove | | |
| 607 | Bigleaf Maple | 7.2 | | 7.0 | Remove | | |
| 608 | Douglas-fir | 36.5 | | 37.0 | Remove | | |
| 609 | Douglas-fir | 34.6 | | 35.0 | Remove | | |
| 610 | Bigleaf Maple | 24.8 | 12.9/10.4/4.3/4.5/9.5/5.6/13.5 | 25.0 | Retain | | |
| 611 | Douglas-fir | 12.2 | | 12.0 | Retain | | |
| 612 | Bigleaf Maple | 20.1 | 18.2/8.6 | 20.0 | Retain | | |
| 613 | Bigleaf Maple | 16.6 | 15.7/4.5/2.9 | 17.0 | Retain | | |
| 614 | Bigleaf Maple | 7.8 | | 8.0 | Retain | | |
| 615 | Douglas-fir | 31.0 | | 31.0 | Remove | | |
| 616 | Douglas-fir | 10.6 | | 11.0 | Retain | | |
| 617 | Douglas-fir | 29.5 | | 30.0 | Retain | | |
| 618 | Douglas-fir | 8.4 | | 8.0 | Retain | | |
| 619 | Bigleaf Maple | 29.9 | 19.4/22.7 | 30.0 | Retain | | |
| 620 | Douglas-fir | 6.1 | | 6.0 | Retain | | |
| 621 | Douglas-fir | 9.4 | | 9.0 | Remove | | |
| 622 | Douglas-fir | 11.7 | | 12.0 | Remove | | |
| 623 | Douglas-fir | 14.7 | | 15.0 | Retain | | |
| 624 | Red alder | 9.7 | | 10.0 | Retain | | |
| 625 | Douglas-fir | 7.2 | | 7.0 | Retain | | |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON — CAMBRIAN ENGINEERING — EXPIRES — NOT FOR CONSTRUCTION — LANDSCAPE ARCHITECT

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

**TREE PROTECTION TREE INVENTORY TABLE 5**

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-52004
SHT NO / TOTAL: #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\working\d\bnwncald-pw.bentley.com_bnwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\CCT900-C-52004.dwg | Layout: CCT900-C-52004
PLOTTED: Jul 29, 2020-12:06:12pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg, KC CC TREE-TABLE.dwg, CCT900-C-52000.dwg
IMAGES:

# BELLEVUE EXISTING TREE INVENTORY

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 626 | Bigleaf Maple | 12.1 | | 12.0 | Retain | | |
| 627 | Bigleaf Maple | 12.4 | | 12.0 | Retain | | |
| 628 | Black cottonwood | 14.5 | | 15.0 | Retain | | |
| 629 | Bigleaf Maple | 8.9 | | 9.0 | Retain | | |
| 630 | Bigleaf Maple | 6.9 | | 7.0 | Retain | | |
| 631 | Bigleaf Maple | 15.0 | | 15.0 | Retain | | |
| 632 | Bigleaf Maple | 24.3 | 6.3/18.4/14.5 | 24.0 | Retain | | |
| 633 | Douglas-fir | 10.3 | | 10.0 | Remove | | |
| 634 | Bigleaf Maple | 7.8 | | 8.0 | Remove | | |
| 635 | Bigleaf Maple | 13.0 | | 13.0 | Remove | | |
| 636 | Bigleaf Maple | 5.7 | | 6.0 | Remove | | |
| 637 | Bigleaf Maple | 12.4 | | 12.0 | Remove | | |
| 638 | Black cottonwood | 19.5 | | 20.0 | Retain | | |
| 638 | Black cottonwood | 19.5 | | 20.0 | Remove | | |
| 639 | Black cottonwood | 16.7 | | 17.0 | Retain | | |
| 640 | Bigleaf Maple | 11.5 | | 12.0 | Retain | | |
| 641 | Bigleaf Maple | 10.8 | | 11.0 | Remove | | |
| 642 | Douglas-fir | 18.3 | | 18.0 | Remove | | |
| 643 | Douglas-fir | 21.7 | | 22.0 | Remove | | |
| 644 | Bigleaf Maple | 13.6 | | 14.0 | Remove | | |
| 645 | Bigleaf Maple | 38.6 | 12.0/16.8/16.0/9.5/18.2/18.5/6.7 | 39.0 | Remove | | |
| 646 | Bigleaf Maple | 41.7 | 21.7/13.7/27.9/12.3/12.2 | 42.0 | Retain | | |
| 647 | Bigleaf Maple | 19.1 | | 19.0 | Retain | | |
| 648 | W. redcedar | 15.7 | | 16.0 | Retain | | |
| 651 | Bigleaf Maple | 23.0 | 13.0/19.0 | 23.0 | Retain | | |
| 652 | Black cottonwood | 31.2 | | 31.0 | Retain | | |
| 653 | Bigleaf Maple | 22.0 | | 22.0 | Remove | | |
| 654 | Bigleaf Maple | 18.4 | | 18.0 | Remove | | |
| 655 | Bigleaf Maple | 24.7 | 17.0/17.9 | 25.0 | Remove | | |
| 656 | Bigleaf Maple | 8.2 | | 8.0 | Remove | | |
| 657 | Bitter Cherry | 17.8 | | 18.0 | Retain | | |
| 658 | Red alder | 7.7 | | 8.0 | Retain | | |
| 659 | Red alder | 7.5 | | 8.0 | Remove | | |
| 660 | Bigleaf Maple | 39.1 | 26.9/7.2/21.1/15.7/7.6 | 39.0 | Retain | | |
| 661 | Bigleaf Maple | 11.2 | | 11.0 | Retain | | |
| 662 | Red alder | 10.6 | | 11.0 | Retain | | |
| 666 | Douglas-fir | 15.7 | | 16.0 | Retain | | |
| 667 | Bigleaf Maple | 5.9 | | 6.0 | Retain | | |
| 668 | Black cottonwood | 15.0 | 12.5/8.3 | 15.0 | Retain | | |
| 669 | Bigleaf Maple | 9.5 | 8.0/5.1 | 10.0 | Retain | | |
| 670 | Douglas-fir | 6.9 | | 7.0 | Retain | | |
| 671 | Douglas-fir | 18.0 | | 18.0 | Retain | | |
| 672 | Douglas-fir | 14.0 | | 14.0 | Retain | | |
| 673 | Bigleaf Maple | 7.5 | | 8.0 | Retain | | |
| 674 | Bigleaf Maple | 6.8 | 4.0/5.0/2.3 | 7.0 | Retain | | |
| 675 | Red alder | 7.1 | | 7.0 | Retain | | |
| 676 | Red alder | 5.5 | | 6.0 | Retain | | |
| 677 | Douglas-fir | 11.4 | | 11.0 | Retain | | |
| 678 | Bigleaf Maple | 5.5 | | 6.0 | Retain | | |
| 679 | Bigleaf Maple | 8.6 | 6.7/5.4 | 9.0 | Retain | | |
| 680 | Bigleaf Maple | 6.2 | | 6.0 | Retain | | |
| 681 | Douglas-fir | 18.2 | | 18.0 | Retain | | |
| 682 | Douglas-fir | 49.6 | 12.6/48 | 50.0 | Retain | | |
| 682 | Douglas-fir | 49.6 | 12.6/48 | 50.0 | Retain | | |
| 683 | Douglas-fir | 14.3 | | 14.0 | Retain | | |
| 684 | Douglas-fir | 11.5 | | 12.0 | Retain | | |
| 685 | Douglas-fir | 5.5 | | 6.0 | Retain | | |
| 686 | Apple spp | 5.6 | | 6.0 | Retain | | |
| 688 | Douglas-fir | 10.9 | | 11.0 | Retain | | |
| 689 | Douglas-fir | 20.2 | | 20.0 | Retain | | |
| 690 | Douglas-fir | 14.5 | | 15.0 | Retain | | |

# BELLEVUE EXISTING TREE INVENTORY (CONT.)

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 691 | Douglas-fir | 10.2 | | 10.0 | Retain | | |
| 692 | Red alder | 6.2 | | 6.0 | Remove | | |
| 693 | Red alder | 5.6 | | 6.0 | Remove | | |
| 694 | Red alder | 13.2 | | 13.0 | Remove | | |
| 695 | Bigleaf Maple | 20.8 | | 21.0 | Retain | | |
| 696 | Red alder | 6.1 | | 6.0 | Remove | | |
| 697 | Red alder | 7.1 | | 7.0 | Remove | | |
| 698 | Red alder | 6.2 | | 6.0 | Remove | | |
| 699 | Red alder | 10.1 | | 10.0 | Remove | | |
| 700 | Red alder | 7.3 | | 7.0 | Remove | | |
| 701 | Red alder | 12.3 | | 12.0 | Remove | | |
| 702 | Red alder | 7.3 | | 7.0 | Remove | | |
| 703 | Red alder | 9.2 | | 9.0 | Remove | | |
| 704 | Red alder | 8.1 | | 8.0 | Remove | | |
| 705 | Red alder | 6.3 | | 6.0 | Remove | | |
| 706 | Red alder | 6.2 | | 6.0 | Remove | | |
| 707 | Red alder | 9.1 | | 9.0 | Remove | | |
| 708 | Red alder | 5.6 | | 6.0 | Remove | | |
| 709 | Red alder | 10.4 | | 10.0 | Retain | | |
| 710 | Red alder | 8.7 | | 9.0 | Retain | | |
| 711 | Red alder | 7.3 | | 7.0 | Remove | | |
| 712 | Red alder | 12.2 | | 12.0 | Remove | | |
| 713 | Red alder | 7.6 | | 8.0 | Remove | | |
| 714 | Red alder | 8.5 | | 9.0 | Remove | | |
| 715 | Red alder | 8.0 | | 8.0 | Remove | | |
| 716 | Red alder | 5.6 | | 6.0 | Remove | | |
| 717 | Bigleaf Maple | 16.6 | | 17.0 | Retain | | |
| 718 | Red alder | 6.3 | | 6.0 | Remove | | |
| 719 | Red alder | 7.9 | | 8.0 | Retain | | |
| 720 | Red alder | 8.1 | | 8.0 | Retain | | |
| 721 | Red alder | 11.9 | | 12.0 | Retain | | |
| 722 | Red alder | 9.1 | | 9.0 | Remove | | |
| 723 | Black cottonwood | 30.1 | | 30.0 | Retain | | |
| 724 | Red alder | 8.5 | | 9.0 | Remove | | |
| 725 | Red alder | 6.6 | | 7.0 | Retain | | |
| 726 | Red alder | 5.8 | | 6.0 | Retain | | |
| 727 | Red alder | 8.4 | | 8.0 | Retain | | |
| 728 | Red alder | 7.4 | | 7.0 | Retain | | |
| 729 | Red alder | 8.7 | | 9.0 | Retain | | |
| 730 | Red alder | 7.1 | | 7.0 | Remove | | |
| 731 | Red alder | 10.2 | | 10.0 | Remove | | |
| 732 | Red alder | 12.1 | | 12.0 | Retain | | |
| 733 | Red alder | 10.4 | | 10.0 | Retain | | |
| 735 | Red alder | 6.7 | | 7.0 | Remove | | |
| 736 | Bigleaf Maple | 17.1 | | 17.0 | Remove | | |
| 737 | Quaking aspen | 45.5 | | 46.0 | Retain | | |
| 738 | Red alder | 7.1 | | 7.0 | Remove | | |
| 739 | Red alder | 7.1 | | 7.0 | Retain | | |
| 740 | Red alder | 8.2 | | 8.0 | Retain | | |
| 741 | Red alder | 5.5 | | 6.0 | Retain | | |
| 742 | Red alder | 7.7 | | 8.0 | Remove | | |
| 743 | Red alder | 10.1 | | 10.0 | Remove | | |
| 744 | Red alder | 6.7 | | 7.0 | Remove | | |
| 745 | Red alder | 9.4 | | 9.0 | Remove | | |
| 747 | Black cottonwood | 55.7 | | 56.0 | Remove | | |
| 748 | Red alder | 8.1 | | 8.0 | Remove | | |
| 749 | Red alder | 11.4 | | 11.0 | Remove | | |
| 749 | Red alder | 11.4 | | 11.0 | Remove | | |
| 750 | Red alder | 9.1 | | 9.0 | Remove | | |
| 752 | Red alder | 6.7 | | 7.0 | Remove | | |
| 753 | Scouler's willow | 9.3 | 4.6/4.8/4.9/4.2 | 9.0 | Remove | | |
| 754 | Red alder | 5.8 | 4.8/2.7/1.7 | 6.0 | Remove | | |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON · CHRISTOPHER BRIAN THIEL · 22000 · REGISTERED LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION TREE INVENTORY TABLE 6

DATE: DECEMBER 2020
DRAWING NO: CCT900-C-52005
SHT NO / TOTAL #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\CCT900-C-52005.dwg | Layout: CCT900-C-52005.dwg
PLOTTED: Jul 29, 2020-12:07:08pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; KC CC TREE-TABLE.dwg; CCT900-C-52000.dwg
IMAGES:

# BELLEVUE EXISTING TREE INVENTORY

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 755 | Red alder | 5.5 | | 6.0 | Retain | | |
| 756 | Bigleaf Maple | 14.0 | | 14.0 | Retain | | |
| 757 | Red alder | 9.6 | | 10.0 | Retain | | |
| 758 | Red alder | 6.2 | | 6.0 | Retain | | |
| 759 | Red alder | 7.7 | | 8.0 | Retain | | |
| 760 | Red alder | 6.7 | | 7.0 | Retain | | |
| 761 | Red alder | 8.7 | | 9.0 | Retain | | |
| 762 | Red alder | 8.8 | | 9.0 | Retain | | |
| 763 | Red alder | 7.9 | | 8.0 | Retain | | |
| 764 | Red alder | 8.2 | | 8.0 | Remove | | |
| 765 | Red alder | 15.4 | | 15.0 | Remove | | |
| 766 | Red alder | 14.7 | | 15.0 | Remove | | |
| 767 | Red alder | 6.0 | | 6.0 | Remove | | |
| 768 | Red alder | 10.3 | | 10.0 | Remove | | |
| 769 | Red alder | 9.0 | | 9.0 | Remove | | |
| 770 | Red alder | 8.0 | | 8.0 | Remove | | |
| 771 | Red alder | 9.2 | | 9.0 | Remove | | |
| 772 | Red alder | 6.8 | | 7.0 | Remove | | |
| 773 | Red alder | 11.7 | | 12.0 | Remove | | |
| 774 | Red alder | 12.0 | 8.4/6.3/4.9/3.3 | 12.0 | Remove | | |
| 775 | Red alder | 6.3 | | 6.0 | Remove | | |
| 776 | Red alder | 6.0 | | 6.0 | Remove | | |
| 777 | Red alder | 9.3 | | 9.0 | Retain | | |
| 778 | Red alder | 8.1 | | 8.0 | Remove | | |
| 779 | Red alder | 10.6 | | 11.0 | Remove | | |
| 780 | Red alder | 9.2 | | 9.0 | Remove | | |
| 781 | Red alder | 5.7 | | 6.0 | Remove | | |
| 782 | Red alder | 14.7 | | 15.0 | Retain | | |
| 783 | Red alder | 7.7 | | 8.0 | Retain | | |
| 784 | Red alder | 5.6 | | 6.0 | Retain | | |
| 785 | Red alder | 9.3 | | 9.0 | Retain | | |
| 786 | Red alder | 11.9 | | 12.0 | Retain | | |
| 787 | Red alder | 16.0 | | 16.0 | Remove | | |
| 788 | Pacific willow | 16.5 | 10.7/12.6 | 17.0 | Remove | | |
| 789 | Red alder | 12.1 | | 12.0 | Retain | | |
| 790 | Red alder | 8.1 | | 8.0 | Remove | | |
| 791 | Red alder | 16.8 | | 17.0 | Remove | | |
| 792 | Red alder | 12.2 | | 12.0 | Remove | | |
| 793 | Red alder | 13.0 | | 13.0 | Retain | | |
| 795 | Red alder | 5.5 | 5.1/1.4/1.6 | 6.0 | Retain | | |
| 796 | Pacific willow | 26.2 | 17.5/16.8/10 | 26.0 | Retain | | |
| 796 | Pacific willow | 26.2 | 17.5/16.8/10 | 26.0 | Retain | | |
| 797 | Red alder | 8.2 | | 8.0 | Retain | | |
| 798 | Red alder | 9.1 | | 9.0 | Retain | | |
| 799 | Red alder | 7.5 | | 8.0 | Retain | | |
| 800 | Red alder | 11.2 | 7.0/8.8 | 11.0 | Retain | | |
| 801 | Red alder | 9.7 | | 10.0 | Retain | | |
| 802 | Red alder | 6.3 | | 6.0 | Remove | | |
| 803 | Red alder | 11.4 | 9.1/6.9 | 11.0 | Retain | | |
| 804 | Red alder | 16.1 | | 16.0 | Retain | | |
| 805 | Pacific willow | 9.5 | | 10.0 | Retain | | |
| 806 | Bigleaf Maple | 18.7 | | 19.0 | Retain | | |
| 807 | Bigleaf Maple | 12.0 | | 12.0 | Retain | | |
| 808 | Pacific willow | 16.3 | | 16.0 | Retain | | |
| 809 | Pacific willow | 7.6 | | 8.0 | Retain | | |
| 810 | Red alder | 9.5 | | 10.0 | Retain | | |
| 811 | Red alder | 5.5 | | 6.0 | Retain | | |
| 812 | Red alder | 7.9 | | 8.0 | Retain | | |
| 813 | Red alder | 7.4 | | 7.0 | Retain | | |
| 814 | Beaked hazelnut | 15.7 | 4.2/12.9/3.5/3.4/3.6/3.7/3.5 | 16.0 | Remove | | |
| 815 | Red alder | 7.3 | | 7.0 | Remove | | |

# BELLEVUE EXISTING TREE INVENTORY (CONT.)

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 816 | Red alder | 7.1 | | 7.0 | Remove | | |
| 817 | Red alder | 7.2 | | 7.0 | Remove | | |
| 818 | Red alder | 6.1 | | 6.0 | Retain | | |
| 819 | Red alder | 8.4 | | 8.0 | Retain | | |
| 820 | Red alder | 7.0 | | 7.0 | Retain | | |
| 821 | Red alder | 7.8 | | 8.0 | Retain | | |
| 822 | Red alder | 7.1 | | 7.0 | Retain | | |
| 823 | Red alder | 6.8 | | 7.0 | Remove | | |
| 824 | Red alder | 6.1 | | 6.0 | Retain | | |
| 825 | Red alder | 8.1 | | 8.0 | Retain | | |
| 826 | Red alder | 6.3 | | 6.0 | Retain | | |
| 827 | Red alder | 9.3 | | 9.0 | Retain | | |
| 828 | Red alder | 9.6 | | 10.0 | Retain | | |
| 829 | Red alder | 7.7 | | 8.0 | Retain | | |
| 831 | Red alder | 8.4 | | 8.0 | Retain | | |
| 832 | Red alder | 12.0 | | 12.0 | Retain | | |
| 833 | Red alder | 9.1 | | 9.0 | Retain | | |
| 834 | Red alder | 8.2 | | 8.0 | Retain | | |
| 836 | Red alder | 9.1 | | 9.0 | Retain | | |
| 836 | Red alder | 9.1 | | 9.0 | Retain | | |
| 837 | Red alder | 6.0 | | 6.0 | Retain | | |
| 839 | Red alder | 7.9 | | 8.0 | Retain | | |
| 840 | Red alder | 11.5 | | 12.0 | Retain | | |
| 841 | Red alder | 8.2 | | 8.0 | Retain | | |
| 842 | Red alder | 5.8 | | 6.0 | Retain | | |
| 843 | Red alder | 10.0 | | 10.0 | Retain | | |
| 844 | Red alder | 12.6 | | 13.0 | Retain | | |
| 845 | Red alder | 9.6 | | 10.0 | Retain | | |
| 846 | Red alder | 6.3 | | 6.0 | Retain | | |
| 847 | Red alder | 5.8 | | 6.0 | Retain | | |
| 848 | Red alder | 5.6 | | 6.0 | Retain | | |
| 849 | Red alder | 8.5 | | 9.0 | Retain | | |
| 850 | Red alder | 8.8 | | 9.0 | Remove | | |
| 851 | Red alder | 6.6 | | 7.0 | Retain | | |
| 852 | Red alder | 6.3 | | 6.0 | Retain | | |
| 853 | Red alder | 6.8 | | 7.0 | Remove | | |
| 854 | Red alder | 6.9 | | 7.0 | Remove | | |
| 855 | Red alder | 8.7 | | 9.0 | Remove | | |
| 856 | Red alder | 5.6 | | 6.0 | Remove | | |
| 857 | Red alder | 7.9 | | 8.0 | Retain | | |
| 858 | Red alder | 5.7 | | 6.0 | Retain | | |
| 859 | Red alder | 7.4 | | 7.0 | Retain | | |
| 860 | Red alder | 6.5 | | 7.0 | Remove | | |
| 861 | Red alder | 5.6 | | 6.0 | Remove | | |
| 862 | Red alder | 6.1 | | 6.0 | Remove | | |
| 863 | Red alder | 8.1 | | 8.0 | Remove | | |
| 864 | Red alder | 5.6 | | 6.0 | Retain | | |
| 865 | Red alder | 7.3 | | 7.0 | Retain | | |
| 866 | Red alder | 8.5 | | 9.0 | Retain | | |
| 867 | Red alder | 9.9 | | 10.0 | Retain | | |
| 868 | Red alder | 6.4 | | 6.0 | Retain | | |
| 869 | Red alder | 7.8 | | 8.0 | Remove | | |
| 870 | Red alder | 5.7 | | 6.0 | Remove | | |
| 871 | Red alder | 10.9 | | 11.0 | Remove | | |
| 872 | Red alder | 6.4 | | 6.0 | Retain | | |
| 873 | Red alder | 9.9 | | 10.0 | Retain | | |
| 874 | Red alder | 8.0 | | 8.0 | Remove | | |
| 875 | Red alder | 7.9 | | 8.0 | Retain | | |
| 876 | Red alder | 6.9 | | 7.0 | Retain | | |
| 877 | Scouler's willow | 11.3 | | 11.0 | Retain | | |
| 878 | Red alder | 9.4 | | 9.0 | Retain | | |
| 879 | Red alder | 11.2 | | 11.0 | Remove | | |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON · BRIAN PAUL · 22777 · REGISTERED LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION
# TREE INVENTORY TABLE 7

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-52006

SHT NO / TOTAL: #

REV NO:

REFERENCE 0 1"

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\CCT900-C-52006.dwg | Layout: CCT900-C-52006
PLOTTED: Jul 29, 2020-12:08:18pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; KC CC TREE-TABLE.dwg; CCT900-C-52000.dwg
IMAGES:

REFERENCE 1" 0

## BELLEVUE EXISTING TREE INVENTORY

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 880 | Red alder | 7.5 | | 8.0 | Remove | | |
| 881 | Red alder | 8.1 | | 8.0 | Remove | | |
| 882 | Red alder | 13.1 | | 13.0 | Remove | | |
| 883 | Red alder | 6.7 | | 7.0 | Remove | | |
| 884 | Red alder | 9.0 | | 9.0 | Remove | | |
| 885 | Red alder | 7.0 | | 7.0 | Remove | | |
| 886 | Red alder | 8.6 | | 9.0 | Retain | | |
| 887 | Red alder | 7.1 | | 7.0 | Retain | | |
| 888 | Red alder | 6.8 | | 7.0 | Remove | | |
| 889 | Red alder | 6.1 | | 6.0 | Remove | | |
| 890 | Red alder | 9.0 | | 9.0 | Remove | | |
| 891 | Red alder | 7.6 | | 8.0 | Remove | | |
| 892 | Red alder | 5.7 | | 6.0 | Remove | | |
| 893 | Red alder | 6.3 | | 6.0 | Retain | | |
| 894 | Red alder | 9.6 | | 10.0 | Retain | | |
| 895 | Red alder | 6.6 | | 7.0 | Retain | | |
| 896 | Red alder | 8.7 | | 9.0 | Retain | | |
| 897 | Red alder | 6.9 | | 7.0 | Retain | | |
| 898 | Red alder | 7.5 | | 8.0 | Retain | | |
| 899 | Red alder | 6.4 | | 6.0 | Remove | | |
| 900 | Red alder | 8.8 | | 9.0 | Remove | | |
| 901 | Red alder | 5.7 | | 6.0 | Retain | | |
| 902 | Red alder | 6.5 | | 7.0 | Retain | | |
| 903 | Red alder | 7.4 | | 7.0 | Remove | | |
| 904 | Red alder | 9.0 | | 9.0 | Remove | | |
| 905 | Red alder | 6.0 | | 6.0 | Retain | | |
| 906 | Red alder | 8.5 | | 9.0 | Retain | | |
| 907 | Red alder | 6.8 | | 7.0 | Remove | | |
| 908 | Red alder | 6.5 | | 7.0 | Remove | | |
| 909 | Red alder | 6.2 | | 6.0 | Retain | | |
| 910 | Red alder | 9.7 | | 10.0 | Retain | | |
| 911 | Red alder | 7.3 | | 7.0 | Retain | | |
| 912 | Red alder | 6.5 | | 7.0 | Retain | | |
| 913 | Red alder | 6.3 | | 6.0 | Retain | | |
| 914 | Red alder | 9.1 | | 9.0 | Retain | | |
| 915 | Red alder | 8.9 | | 9.0 | Remove | | |
| 916 | Black cottonwood | 8.6 | | 9.0 | Remove | | |
| 917 | Red alder | 6.3 | | 6.0 | Retain | | |
| 918 | Red alder | 8.6 | | 9.0 | Retain | | |
| 919 | Red alder | 6.9 | | 7.0 | Retain | | |
| 920 | Red alder | 9.0 | | 9.0 | Retain | | |
| 921 | Red alder | 7.9 | | 8.0 | Retain | | |
| 922 | Red alder | 10.0 | | 10.0 | Retain | | |
| 923 | Red alder | 8.0 | | 8.0 | Retain | | |
| 924 | Red alder | 8.2 | | 8.0 | Remove | | |
| 925 | Red alder | 6.7 | | 7.0 | Retain | | |
| 926 | Red alder | 7.8 | | 8.0 | Remove | | |
| 927 | Red alder | 6.2 | | 6.0 | Retain | | |
| 928 | Red alder | 9.8 | | 10.0 | Retain | | |
| 929 | Red alder | 6.1 | | 6.0 | Retain | | |
| 930 | Red alder | 10.2 | | 10.0 | Retain | | |
| 931 | Red alder | 6.0 | | 6.0 | Retain | | |
| 932 | Red alder | 9.3 | | 9.0 | Retain | | |
| 933 | Red alder | 5.8 | | 6.0 | Retain | | |
| 934 | Red alder | 6.3 | | 6.0 | Retain | | |
| 935 | Red alder | 8.5 | | 9.0 | Retain | | |
| 936 | Red alder | 8.5 | | 9.0 | Retain | | |
| 937 | Red alder | 8.4 | | 8.0 | Retain | | |
| 938 | Red alder | 9.1 | | 9.0 | Retain | | |
| 939 | Red alder | 5.6 | | 6.0 | Retain | | |
| 940 | Red alder | 6.7 | | 7.0 | Retain | | |
| 941 | Red alder | 7.4 | | 7.0 | Retain | | |

## BELLEVUE EXISTING TREE INVENTORY (CONT.)

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 942 | Red alder | 9.6 | | 10.0 | Retain | | |
| 943 | Red alder | 7.8 | | 8.0 | Retain | | |
| 944 | Red alder | 8.4 | | 8.0 | Remove | | |
| 945 | Red alder | 7.6 | | 8.0 | Remove | | |
| 946 | Red alder | 9.9 | | 10.0 | Remove | | |
| 947 | Red alder | 9.7 | | 10.0 | Remove | | |
| 948 | Red alder | 7.7 | | 8.0 | Remove | | |
| 949 | Red-osier dogwood | 7.1 | 3.0/3.3/2.4/2.0/2.2/2.9/1.9/2.0 | 7.0 | Remove | | |
| 950 | Red alder | 9.6 | | 10.0 | Retain | | |
| 951 | Black cottonwood | 13.2 | | 13.0 | Retain | | |
| 952 | Black cottonwood | 24.3 | | 24.0 | Retain | | |
| 953 | Douglas-fir | 10.4 | | 10.0 | Remove | | |
| 954 | Douglas-fir | 11.6 | | 12.0 | Remove | | |
| 955 | Black cottonwood | 13.0 | | 13.0 | Retain | | |
| 956 | Black cottonwood | 25.5 | | 26.0 | Retain | | |
| 957 | Black cottonwood | 36.3 | | 36.0 | Retain | | |
| 958 | Willow | 6.2 | 5.3/3.2 | 6.0 | Retain | | |
| 959 | Black cottonwood | 28.9 | | 29.0 | Retain | | |
| 960 | Black cottonwood | 10.8 | | 11.0 | Retain | | |
| 961 | Black cottonwood | 32.8 | | 33.0 | Retain | | |
| 962 | Black cottonwood | 31.7 | | 32.0 | Retain | | |
| 963 | Red alder | 10.0 | 6.4/7.7 | 10.0 | Retain | | |
| 964 | Red alder | 9.1 | | 9.0 | Retain | | |
| 965 | Black cottonwood | 12.1 | | 12.0 | Retain | | |
| 966 | Black cottonwood | 9.0 | | 9.0 | Retain | | |
| 967 | Red alder | 6.7 | | 7.0 | Retain | | |
| 968 | Red alder | 10.1 | | 10.0 | Retain | | |
| 969 | Red alder | 8.3 | | 8.0 | Retain | | |
| 970 | Red alder | 6.3 | | 6.0 | Retain | | |
| 971 | Red alder | 6.5 | | 7.0 | Retain | | |
| 972 | Red alder | 7.5 | | 8.0 | Retain | | |
| 973 | Red alder | 7.7 | | 8.0 | Retain | | |
| 974 | Apple spp | 5.5 | | 6.0 | Retain | | |
| 975 | Douglas-fir | 17.0 | | 17.0 | Retain | | |
| 976 | Douglas-fir | 14.6 | | 15.0 | Retain | | |
| 977 | Douglas-fir | 18.2 | | 18.0 | Retain | | |
| 978 | Douglas-fir | 7.0 | | 7.0 | Retain | | |
| 979 | Black cottonwood | 10.7 | | 11.0 | Retain | | |
| 980 | Red alder | 8.4 | 7.6/3.6 | 8.0 | Retain | | |
| 981 | Bigleaf Maple | 14.0 | 6.2/2.8/6.5/7.4/7.2 | 14.0 | Retain | | |
| 982 | Douglas-fir | 10.5 | | 11.0 | Retain | | |
| 983 | Red alder | 7.4 | | 7.0 | Remove | | |
| 984 | Red alder | 9.2 | | 9.0 | Retain | | |
| 985 | Red alder | 10.3 | | 10.0 | Remove | | |
| 986 | Red alder | 7.0 | | 7.0 | Retain | | |
| 987 | Red alder | 7.4 | 6.1/4.2 | 7.0 | Retain | | |
| 988 | Red alder | 9.3 | | 9.0 | Retain | | |
| 989 | Red alder | 8.4 | | 8.0 | Retain | | |
| 990 | Red alder | 7.3 | | 7.0 | Retain | | |
| 991 | Bigleaf Maple | 35.5 | | 36.0 | Retain | | |
| 993 | Red alder | 5.9 | | 6.0 | Remove | | |
| 994 | Red alder | 7.4 | | 7.0 | Retain | | |
| 995 | Red alder | 9.8 | | 10.0 | Retain | | |
| 996 | Red alder | 5.6 | | 6.0 | Retain | | |
| 997 | Red alder | 9.7 | | 10.0 | Retain | | |
| 998 | Red alder | 5.8 | | 6.0 | Retain | | |
| 999 | Red alder | 5.6 | | 6.0 | Retain | | |
| 1000 | Empress tree | 8.2 | | 8.0 | Remove | | |
| 9001 | Red alder | 12.1 | | 12.0 | Retain | | |
| 9003 | Norway Maple | 15.8 | | 16.0 | Remove | | |
| 9004 | Norway Maple | 13.1 | | 13.0 | Remove | | |
| 9005 | Norway Maple | 11.0 | | 11.0 | Retain | | |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m: AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON · IAN BRIAN CRAIG · 22009 · REGISTERED LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# TREE PROTECTION TREE INVENTORY TABLE 8

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-52007

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
C:\Users\kinseym2\AppData\Local\Bentley\projectwise\workingdir\brwncald-pw.bentley.com_brwncald-pw-01\michelle.kinsey@jacobs.com\d0406435\CCT900-C-52007.dwg | Layout: CCT900-C-52007
PLOTTED: Jul 29, 2020-12:09:13pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; KC CC TREE-TABLE.dwg; CCT900-C-52000.dwg
IMAGES:

# BELLEVUE EXISTING TREE INVENTORY

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 9006 | Norway Maple | 13.6 | | 14.0 | Retain | | |
| 9007 | Norway Maple | 12.1 | | 12.0 | Retain | | |
| 9008 | Norway Maple | 12.1 | | 12.0 | Retain | | |
| 9009 | Norway Maple | 12.3 | | 12.0 | Retain | | |
| 9010 | Norway Maple | 17.2 | | 17.0 | Retain | | |
| 9011 | Norway Maple | 12.1 | | 12.0 | Remove | | |
| 9012 | Norway Maple | 9.6 | | 10.0 | Remove | | |
| 9013 | Norway Maple | 10.6 | | 11.0 | Remove | | |
| 9014 | Red alder | 14.8 | | 15.0 | Remove | | |
| 9015 | Bigleaf Maple | 22.7 | | 23.0 | Retain | | |
| 9016 | Bigleaf Maple | 21.5 | | 22.0 | Retain | | |
| 9017 | Bigleaf Maple | 12.3 | | 12.0 | Retain | | |
| 9018 | Bitter Cherry | 10.9 | | 11.0 | Retain | | |
| 9019 | Red Maple | 10.9 | | 11.0 | Retain | | |
| 9020 | Red Maple | 14.2 | | 14.0 | Retain | | |
| 9021 | Bigleaf Maple | 17.3 | 11.6/12.9 | 17.0 | Retain | | |
| 9024 | Sitka willow | 11.1 | 4.7/3.7/5.6/4.8/4.8/3.3 | 11.0 | Retain | | |
| 9025 | Sitka willow | 10.2 | 3.9/2.7/2.2/4.4/3.4/3.2/ 1.8/3.6/3.6/2.5 | 10.0 | Retain | | |
| 9027 | Sitka willow | 10.5 | 5.4/5.0/5.1/3.6/3.2/2.8 | 11.0 | Retain | | |
| 9028 | Sitka willow | 11.7 | 4.6/5.1/4.3/4.3/3.7/2.7/ 4.4/3.5 | 12.0 | Retain | | |
| 9029 | Sitka willow | 13.7 | 3.9/5.7/4.2/4.0/7.6/7.0 | 14.0 | Retain | | |
| 9030 | Sitka willow | 9.0 | 5.4/2.5/3.5/5.7 | 9.0 | Retain | | |
| 9031 | Sitka willow | 7.9 | 3.9/4.5/3.5/3.9 | 8.0 | Retain | | |
| 9032 | Sitka willow | 5.7 | 3.6/4.4 | 6.0 | Retain | | |
| 9033 | Sitka willow | 10.1 | 5.0/4.3/6.8/3.4 | 10.0 | Remove | | |
| 9034 | Sitka willow | 7.1 | 6.3/3.3 | 7.0 | Remove | | |
| 9035 | Sitka willow | 5.7 | 3.5/4.5 | 6.0 | Remove | | |
| 9036 | Sitka willow | 8.3 | 4.6/4.8/4.9 | 8.0 | Remove | | |
| 9037 | Douglas-fir | 16.0 | | 16.0 | Remove | | |
| 9038 | W. redcedar | 6.2 | | 6.0 | Remove | | |
| 9039 | Red alder | 13.5 | | 14.0 | Remove | | |
| 9040 | Bigleaf Maple | 24.0 | | 24.0 | Retain | | |
| 9041 | Bigleaf Maple | 43.9 | 20.4/36.9/12.4 | 44.0 | Remove | | |
| 9042 | Bigleaf Maple | 41.0 | 16.0/24.1/29.1 | 41.0 | Retain | | |
| 9043 | Red alder | 6.7 | | 7.0 | Remove | | |
| 9045 | Red alder | 18.4 | | 18.0 | Remove | | |
| 9046 | Bigleaf Maple | 6.7 | | 7.0 | Remove | | |
| 9047 | Red alder | 16.9 | | 17.0 | Remove | | |
| 9048 | Beaked hazelnut | 6.8 | 2.1/2.6/1.5/2.6/1.9/2.2/ 2.5/2.4/2.3 | 7.0 | Remove | | |
| 9049 | Bigleaf Maple | 31.8 | 7.7/3.7/5.0/30.2 | 32.0 | Remove | | |
| 9050 | Red alder | 6.7 | | 7.0 | Remove | | |
| 9051 | Quaking aspen | 11.3 | | 11.0 | Remove | | |
| 9052 | Bitter Cherry | 6.3 | | 6.0 | Remove | | |
| 9053 | Quaking aspen | 13.3 | | 13.0 | Remove | | |
| 9054 | Douglas-fir | 19.4 | | 19.0 | Remove | | |
| 9055 | Red alder | 11.3 | | 11.0 | Remove | | |
| 9056 | Red alder | 20.0 | 7.6/12.4/13.8 | 20.0 | Remove | | |
| 9057 | Vine maple | 6.9 | 2.2/2.1/1.9/2.0/1.8/1.5/ 1.5/1.8/3.2/3.0 | 7.0 | Remove | | |
| 9058 | Douglas-fir | 11.2 | | 11.0 | Remove | | |
| 9059 | Red alder | 16.3 | | 16.0 | Remove | | |
| 9060 | Red alder | 14.9 | | 15.0 | Retain | | |
| 9061 | Quaking aspen | 9.5 | | 10.0 | Remove | | |
| 9062 | Quaking aspen | 10.1 | | 10.0 | Remove | | |
| 9063 | Douglas-fir | 17.2 | | 17.0 | Remove | | |
| 9064 | Douglas-fir | 13.7 | | 14.0 | Retain | | |
| 9065 | Red alder | 10.8 | | 11.0 | Remove | | |
| 9066 | Red alder | 6.8 | | 7.0 | Remove | | |
| 9067 | Red alder | 7.3 | | 7.0 | Remove | | |
| 9068 | Red alder | 12.2 | | 12.0 | Remove | | |
| 9069 | Bigleaf Maple | 9.7 | | 10.0 | Retain | | |

# BELLEVUE EXISTING TREE INVENTORY (CONT.)

| TREE ID | COMMON NAME | DBH (SINGLE STEM) | DBH (MULTIPLE STEMS) | TPZ (FT) | PROPOSED ACTION | JURISDICTION | PROTECTION NOTES |
|---|---|---|---|---|---|---|---|
| 9070 | Bigleaf Maple | 13.6 | | 14.0 | Retain | | |
| 9071 | Bigleaf Maple | 7.1 | | 7.0 | Remove | | |
| 9072 | Red alder | 9.8 | | 10.0 | Remove | | |
| 9073 | Bigleaf Maple | 8.4 | | 8.0 | Remove | | |
| 9074 | Bigleaf Maple | 5.5 | | 6.0 | Retain | | |
| 9075 | Bigleaf Maple | 13.9 | | 14.0 | Retain | | |
| 9076 | Bigleaf Maple | 25.9 | 19.8/13.8/9.4 | 26.0 | Remove | | |
| 9077 | Bigleaf Maple | 24.7 | | 25.0 | Retain | | |
| 9078 | Douglas-fir | 23.2 | | 23.0 | Retain | | |
| 9079 | Bigleaf Maple | 14.7 | 6.8/11.9/5.2 | 15.0 | Retain | | |
| 9080 | Bigleaf Maple | 16.3 | 9.6/8.3/10.2 | 16.0 | Remove | | |
| 9081 | Bigleaf Maple | 16.8 | 9.1/9.9/10.1 | 17.0 | Retain | | |
| 9082 | Bigleaf Maple | 24.5 | 17.8/16.8 | 25.0 | Retain | | |
| 9083 | Bigleaf Maple | 18.3 | | 18.0 | Retain | | |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON · BRIAN HEIS · 22009 · REGISTERED LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: L. FRENCH | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

**TREE PROTECTION TREE INVENTORY TABLE 9**

DATE: DECEMBER 2020

DRAWING NO: **CCT900-C-52008**

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: KCWTD-Dsize-TB-Border.dwg; KC CC TREE-TABLE.dwg; CCT900-C-52000.dwg
IMAGES:

**LEGEND**

- STREAM LAYER FROM CITY OF BELLEVUE GIS.
- PROPOSED SEWER TRUNK.
- EXISTING SEWER TRUNK.

0 300 600 900
SCALE IN FEET

REFERENCE 0 1"

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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IMAGES:

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON · PAUL W. BERGMAN · 22009 · REGISTERED LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

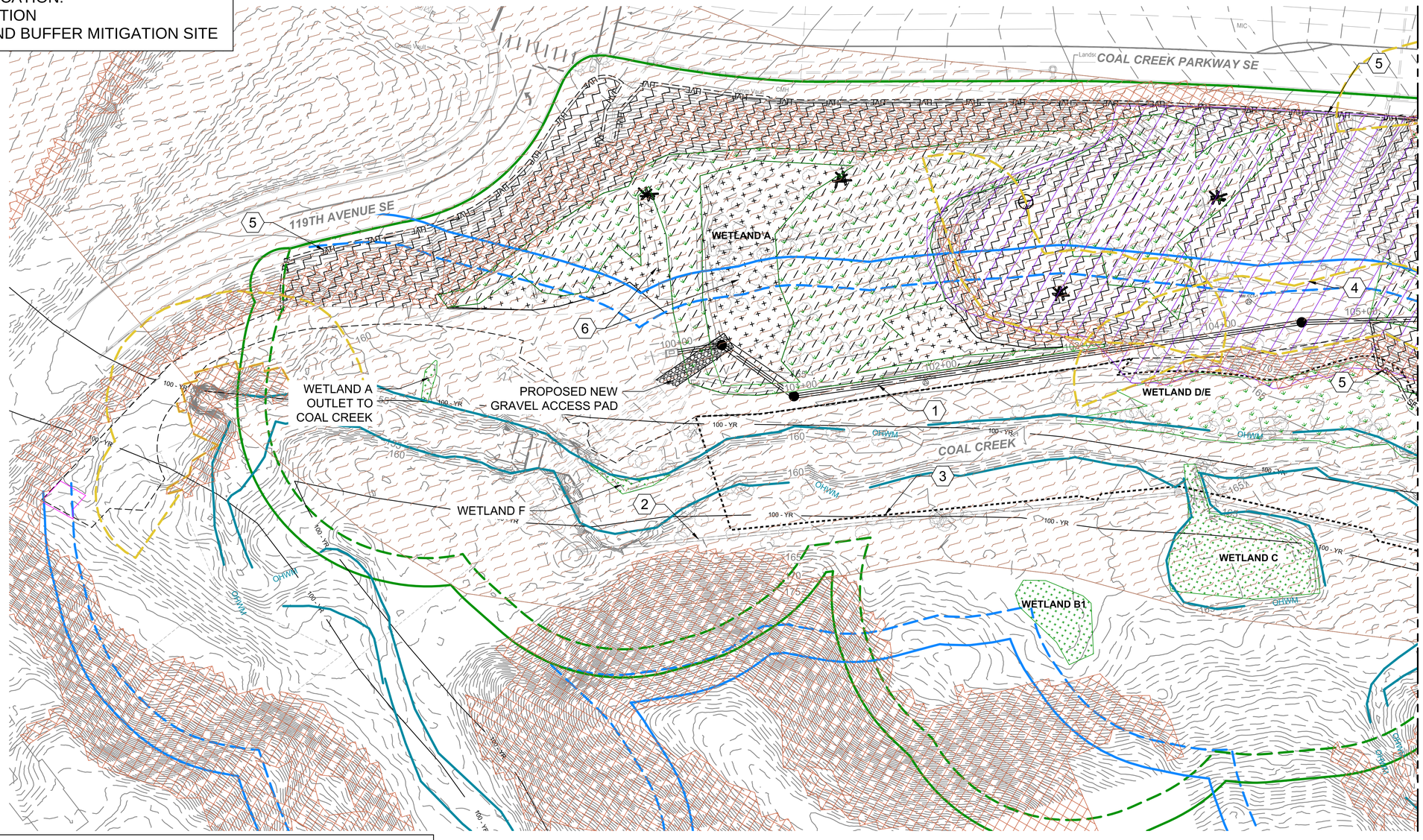
King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE KEY MAP

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-11000
SHT NO # / TOTAL #
REV NO: 0

PROJECT LOCATION:
ESI CONNECTION
WETLAND AND BUFFER MITIGATION SITE




## GENERAL NOTES

1. SEE SHEETS CCT900-L-41000, 41001 AND 51000 FOR PLANTING LAYOUT, SCHEDULES, NOTES AND DETAILS.
2. REFER TO PROJECT CRITICAL AREAS REPORT FOR MITIGATION SEQUENCE AND DETAILS.

## KEY NOTES

1. PROPOSED SEWER TRUNK.
2. EXISTING SEWER TRUNK.
3. EXISTING MITIGATION AREA (BY OTHERS).
4. EXISTING DETENTION VAULT.
5. ADDITIONAL TESC MEASURES FOR THE LANDSCAPE AREA. REFER TO CCT900-C-00004, C-10002, C-10003, AND C-40001 FOR PROJECT TESC NOTES, PLANS AND DETAILS.
6. WETLAND CREATION AREA. DETAILS TO BE DEVELOPED BASED ON ON-GOING GROUNDWATER MONITORING DATA.

## LEGEND

- WETLAND ENHANCEMENT MIX
- BUFFER ENHANCEMENT MIX
- WETLAND CREATION MIX
- EXISTING WETLAND
- WETLAND BUFFER
- STREAM BUFFER
- WORK LIMIT
- HVF — HIGH VISIBILITY FENCE
- SF — SILT FENCE
- BRUSH PILE
- SNAG (SALVAGE EXISTING TREE ON SITE. TO BE FIELD LOCATED.)

0 40 80 120
SCALE IN FEET

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- ESTIMATED WETLAND
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON — JACOB W. REYNOLDS — NOT FOR CONSTRUCTION — 22003 EXP. 10/10/20 — LICENSED LANDSCAPE ARCHITECT

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE PLAN 1

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-11001
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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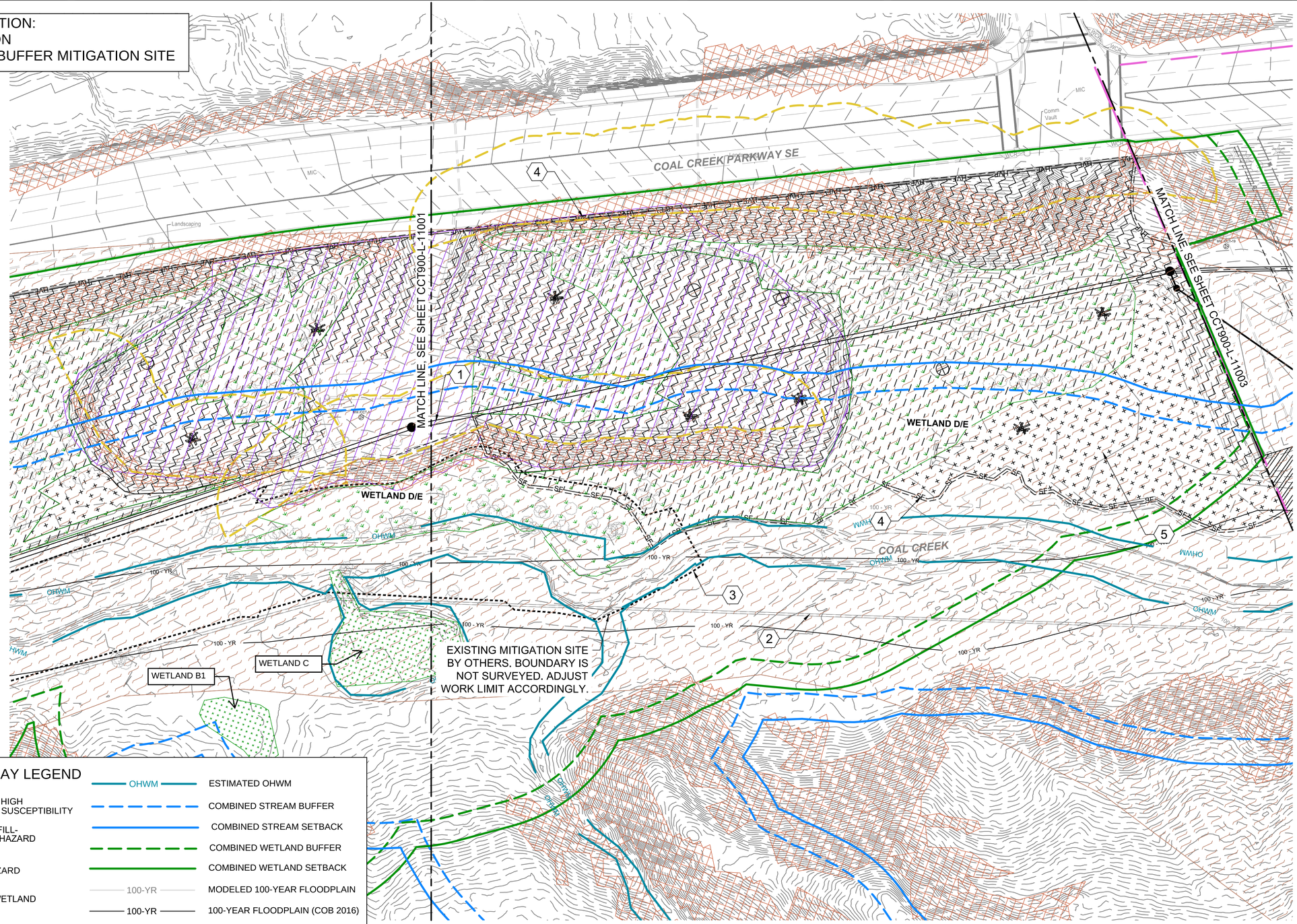
IMAGES:

PROJECT LOCATION:
ESI CONNECTION
WETLAND AND BUFFER MITIGATION SITE




## GENERAL NOTES

1. SEE SHEETS CCT900-L41000, L-41001, AND L-51000 FOR PLANTING LAYOUT, SCHEDULES, NOTES AND DETAILS.

## KEY NOTES

1. PROPOSED SEWER TRUNK.
2. EXISTING SEWER TRUNK.
3. EXISTING MITIGATION AREA (BY OTHERS).
4. ADDITIONAL TESC MEASURES FOR THE LANDSCAPE AREA. REFER TO CCT900-C-00004, C-10002, C-10003, AND C-40001 FOR PROJECT TESC NOTES, PLANS AND DETAILS.
5. WETLAND CREATION AREA. DETAILS TO BE DEVELOPED BASED ON ON-GOING GROUNDWATER MONITORING DATA.

## LEGEND

- WETLAND ENHANCEMENT MIX
- BUFFER ENHANCEMENT MIX
- WETLAND CREATION MIX
- EXISTING WETLAND
- WETLAND BUFFER
- STREAM BUFFER
- WORK LIMIT
- HVF — HIGH VISIBILITY FENCE
- SF — SILT FENCE
- BRUSH PILE
- SNAG (SALVAGE EXISTING TREE ON SITE. TO BE FIELD LOCATED.)

0 40 80 120
SCALE IN FEET

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- HUMAN-MADE FILL- NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE
- SINGLE-FAMILY TRANSITION AREA

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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STATE OF WASHINGTON · MARCIE W. BERGMAN · 22000 · REGISTERED LANDSCAPE ARCHITECT · NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE PLAN 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-11002
SHT NO / TOTAL: # / #
REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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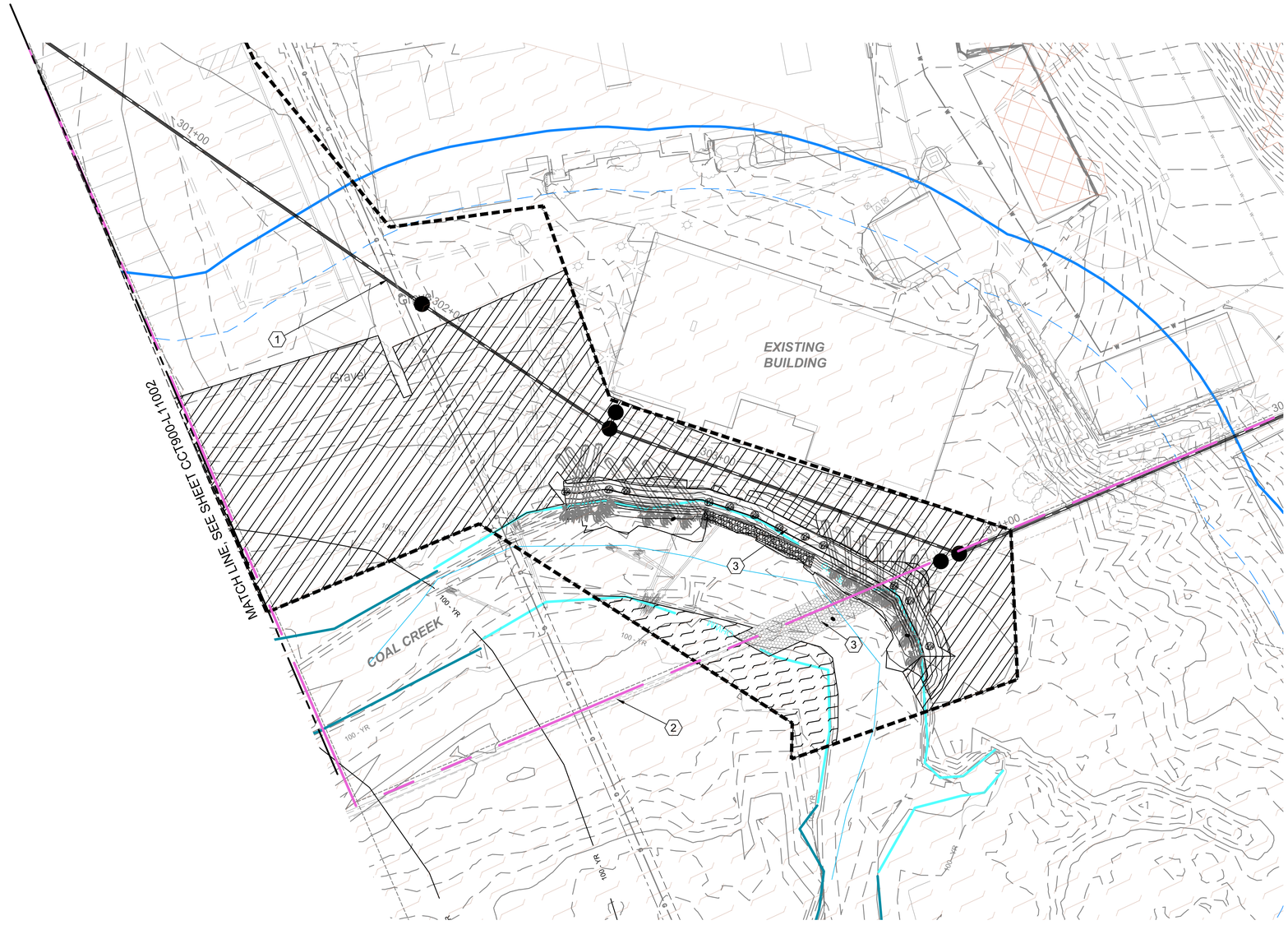
IMAGES:

PROJECT LOCATION:
CONDOS STREAM RESTORATION




## GENERAL NOTES

1. SEE SHEETS CCT900-L-41000, L41001, AND L-51000 FOR PLANTING SCHEDULES, NOTES AND DETAILS.

## KEY NOTES

1. PROPOSED SEWER TRUNK.
2. EXISTING SEWER TRUNK.
3. REFER TO SHEET CCT900-C-10165 FOR CREEK RESTORATION DETAILS.

## LEGEND

- BUFFER MIX - CONDO
- STREAMBANK MIX
- WETLAND BUFFER
- STREAM BUFFER
- WORK LIMIT

## LAND USE OVERLAY LEGEND

- MODERATE TO HIGH LIQUEFACTION SUSCEPTIBILITY
- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — DELINEATED OHWM
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- SINGLE-FAMILY TRANSITION AREA

0 20 40 80
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON · MARCUS W. BERGMAN · 22383 · EXP. 11/12/20 · LICENSED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE PLAN 3

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-11003
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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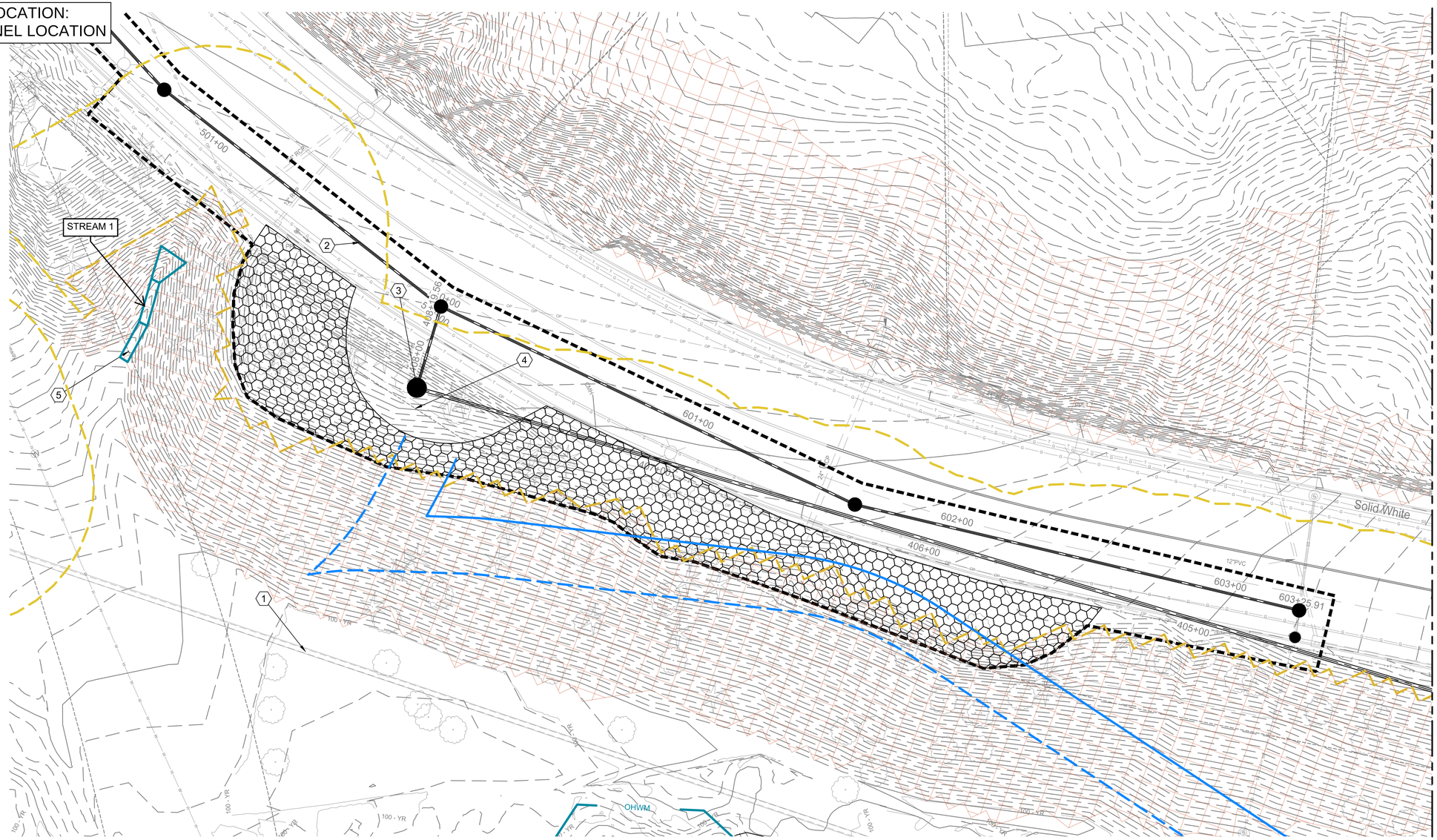
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION




MATCH LINE, SEE SHEET CCT900-L11005

## GENERAL NOTES

1. SEE SHEETS CCT900-L-41000, L-41001, AND L-51000 FOR PLANTING SCHEDULES, NOTES AND DETAILS.

## KEY NOTES

1. EXISTING SEWER TRUNK.
2. PROPOSED SEWER TRUNK.
3. MICROTUNNEL RECEIVING PIT.
4. TURNAROUND AREA. SEE SURFACE RESTORATION CCT900-C-10136 BY OTHERS.
5. EXISTING TRIBUTARY

## LEGEND

- UPLAND/ BUFFER MIX
- STREAM BUFFER
- WORK LIMIT

0 20 40 80
SCALE IN FEET

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- TOP-OF-SLOPE

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON · KAREN W. BERGMAN · 22000 · REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE PLAN 4

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-11004
SHT NO # / TOTAL # | REV NO: 0

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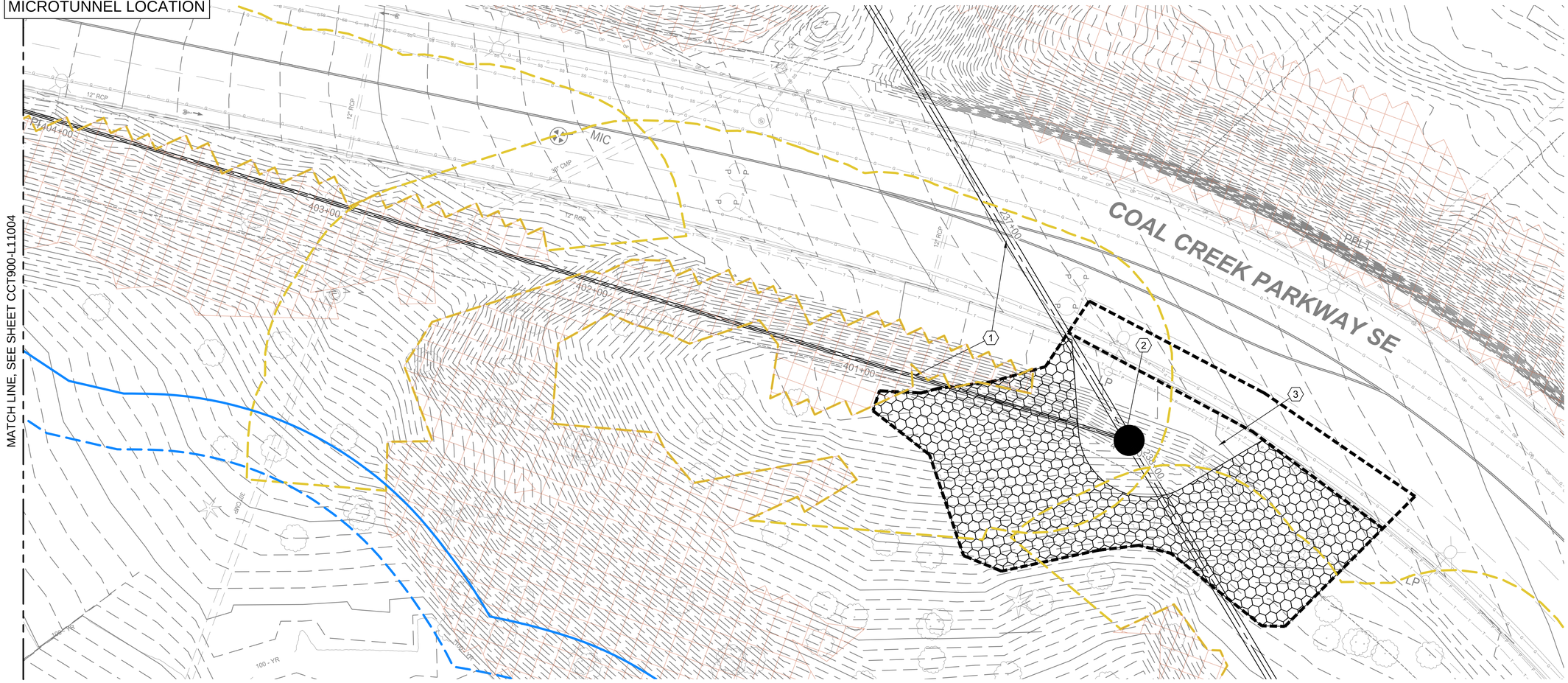
IMAGES:

PROJECT LOCATION:
MICROTUNNEL LOCATION

MATCH LINE, SEE SHEET CCT900-L11004




## GENERAL NOTES

1. SEE SHEETS CCT900-L-41000, L-41001, AND L-51000 FOR PLANTING SCHEDULES, NOTES AND DETAILS.

## KEY NOTES

1. PROPOSED SEWER TRUNK.
2. MICROTUNNEL LAUNCH PIT.
3. TURNAROUND AREA. SEE SURFACE RESTORATION PLAN CCT900-C-10136 BY OTHERS.

## LEGEND

- UPLAND/BUFFER MIX
- STREAM BUFFER
- WORK LIMIT

0 20 40 80
SCALE IN FEET

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- 100-YR MODELED 100-YEAR FLOODPLAIN
- TOP-OF-SLOPE

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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DECEMBER 2020

STATE OF WASHINGTON · RACHEL W. BERGMAN · 22991 · REGISTERED LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE PLAN 5

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-11005
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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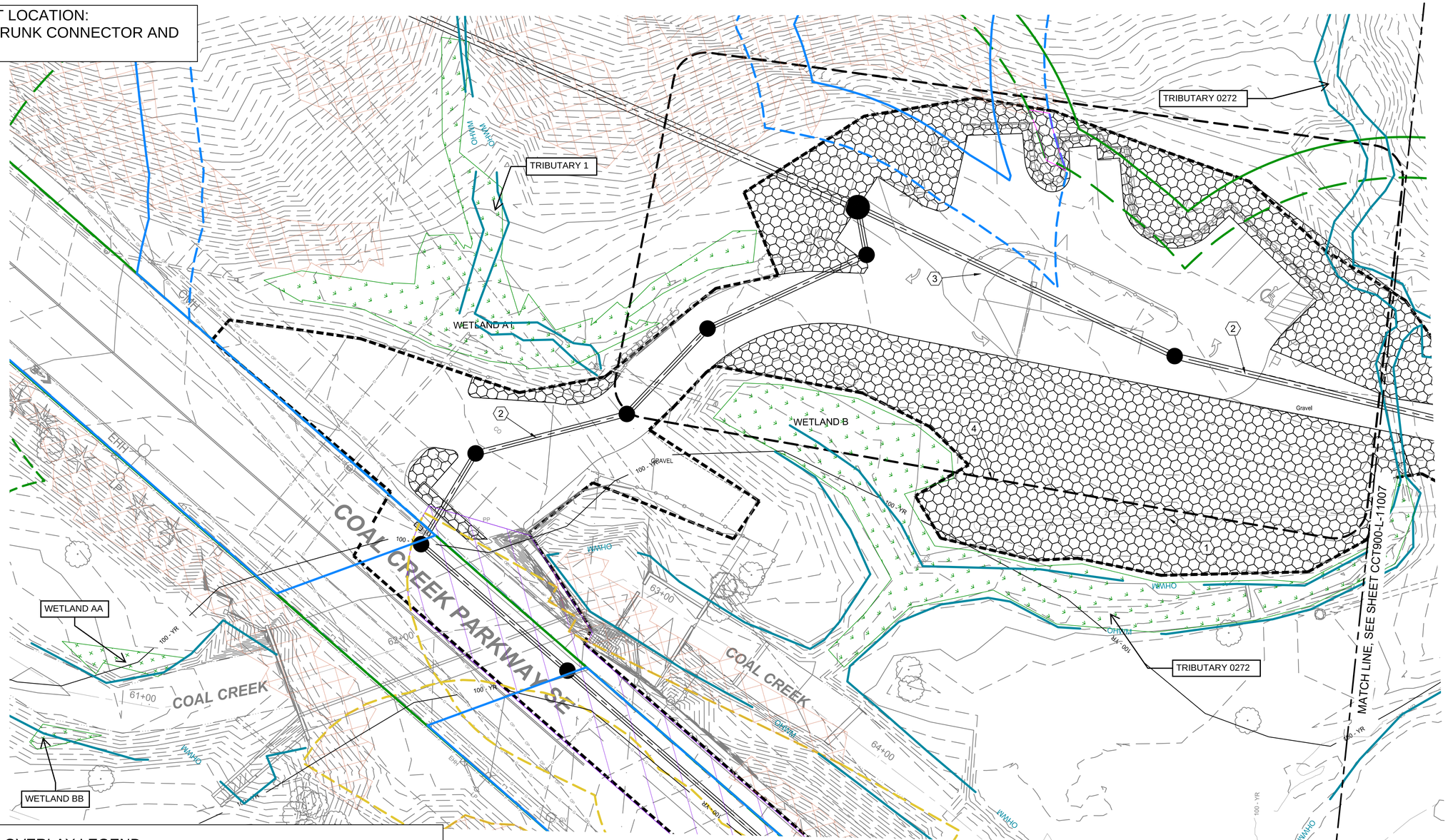
IMAGES:

PROJECT LOCATION:
SOUTH TRUNK CONNECTOR AND SPUR




## GENERAL NOTES

1. RESTORE ALL LANDSCAPE AND BUFFER VEGETATION ACCORDING TO REFERENCE DRAWINGS IN SPECIFICATION.

## KEY NOTES

1. EXISTING SEWER TRUNK.
2. PROPOSED SEWER TRUNK.
3. EXISTING RAINGARDEN.
4. LANDSCAPE RESTORATION AREA.

## LEGEND

- EXISTING WETLAND
- WETLAND BUFFER
- STREAM BUFFER
- WORK LIMIT

## LAND USE OVERLAY LEGEND

- HUMAN-MADE FILL-NO GEOLOGIC HAZARD
- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)
- TOP-OF-SLOPE

0 20 40 80
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON · RACE W. BERGMAN · 19991 · REGISTERED LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE PLAN 6

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-11006
SHT NO # / TOTAL # REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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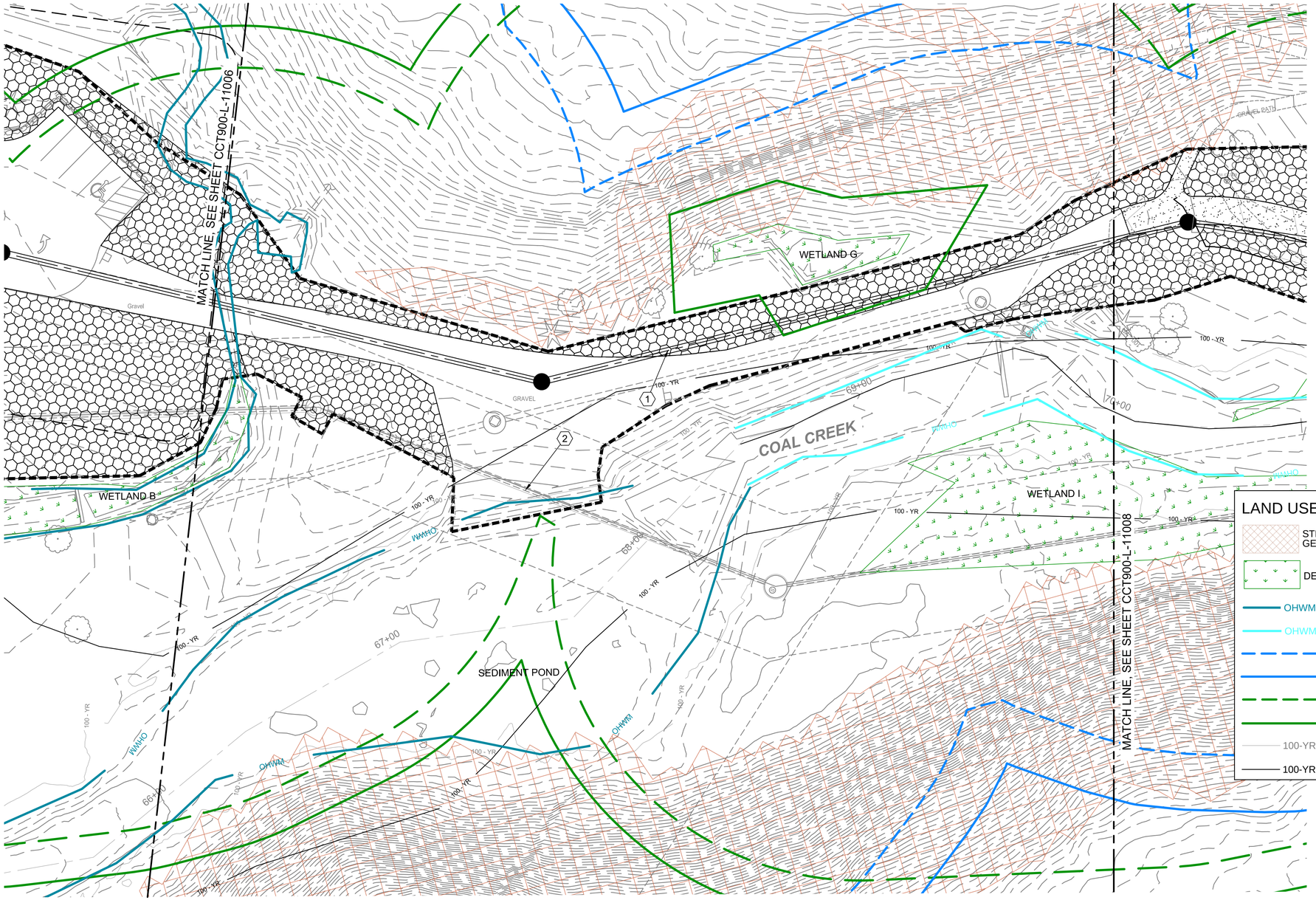
IMAGES:

PROJECT LOCATION:
SPUR




## GENERAL NOTES

1. SEE SHEETS CCT900-L-41000, L-41001, AND L-51000 FOR PLANTING SCHEDULES, NOTES AND DETAILS.

## KEY NOTES

1. PROPOSED SEWER TRUNK - PLANTING WITHIN 10' ON-CENTER SHALL BE TO LOW SHRUB SPECIES ONLY.
2. EXISTING SEWER TRUNK.
3. REFER TO CCT900-C-10165 AND C-10166 FOR CREEK RESTORATION DETAILS.

## LEGEND

- UPLAND/ BUFFER MIX
- STREAMBANK MIX
- EXISTING WETLAND
- WETLAND BUFFER
- STREAM BUFFER
- WORK LIMIT

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

0 20 40 80
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

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DECEMBER 2020

STATE OF WASHINGTON · ROGER W. BERGMAN · 19983 · EXPIRES 10/10/2021 · PROFESSIONAL LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE PLAN 7

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-11007
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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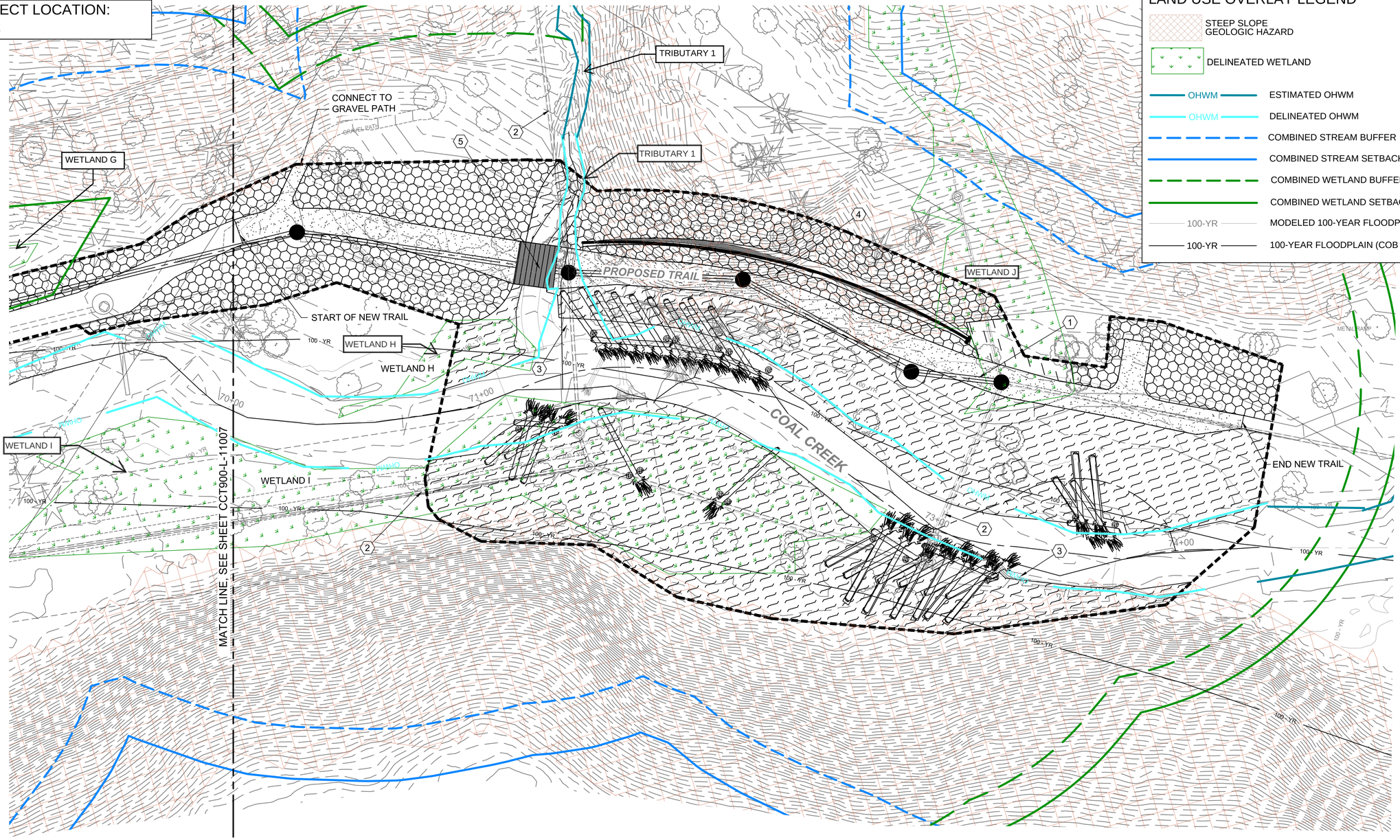
IMAGES:

PROJECT LOCATION:
SPUR




## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

## GENERAL NOTES

1. SEE SHEETS CCT900-L-41000, L-41001, AND L-51000 FOR PLANTING SCHEDULES, NOTES AND DETAILS.

## KEY NOTES

1. PROPOSED SEWER TRUNK - PLANTING WITHIN 10' ON-CENTER OF PIPE SHALL BE LIMITED TO LOW SHRUB SPECIES ONLY.
2. EXISTING SEWER TRUNK.
3. REFER TO CCT900-C-10165 AND C-10166 FOR CREEK RESTORATION DETAILS.
4. BOTTOM OF THE WALL - PLANTING SHALL BE LIMITED TO GROUNDCOVER SPECIES ONLY.
5. PROPOSED BRIDGE. SEE CCT900-C-40070 FOR DETAILS.

## LEGEND

- WETLAND MIX
- UPLAND/ BUFFER MIX
- STREAMBANK MIX
- EXISTING WETLAND
- CRUSHED ROCK
- WETLAND BUFFER
- STREAM BUFFER
- WORK LIMIT

0 20 40 80
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON · BRUCE W BERGMAN · 22009 · NOT FOR CONSTRUCTION · EXPIRES LANDSCAPE ARCHITECT

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE PLAN 8

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-11008
SHT NO # / TOTAL #
REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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XREFS: KCWTD-Dsize-TB-Border.dwg; Stream Restoration.dwg; zexistingdata.DWG; 900-1123624Alignments.dwg; J16144-C3D 2017.dwg; 900-1123624_LPX.dwg; 900-1123624EGCombinedSurface.dwg; 900-1123624Permitting.dwg; Critical_Areas_Basemap.dwg
IMAGES:

PROJECT LOCATION:
SPUR

END OF PROPOSED
10' TRAIL. TIE INTO
EXISTING TRAIL PER
CITY SPECIFICATIONS.

PROPOSED ACCESS ROAD CL

PROPOSED BRIDGE

TRIBUTARY 1

WETLAND G

WETLAND H

WETLAND I

WETLAND J

COAL CREEK

A CCT900-L-21002

B CCT900-L-21002

C CCT900-L-21002

D CCT900-L-21002

A CCT900-C-21001

0+00

1+00

2+00

3+00

4+00

4+28.71

END OF PROPOSED
10' TRAIL. TIE INTO
EXISTING TRAIL PER
CITY SPECIFICATIONS.

## GENERAL NOTES

1. PROPOSED GRADING REFLECTS TEMPORARY CONSTRUCTION ACCESS ROAD FILL AND NOT FINAL SITE CONDITIONS. CONTRACTOR SHALL REMOVE EXCESS ROAD FILL BETWEEN TOP OF SOIL LIFTS AND EDGE OF PROPOSED 10' GRAVEL TRAIL, AND RESTORE SOIL CONDITIONS FOR PLANTING INSTALLATION PER SPECIFICATIONS.

## KEY NOTES

1. PROPOSED SEWER TRUNK.
2. EXISTING SEWER TRUNK.
3. PROPOSED TURNAROUND AREA.
4. PROPOSED WALL.
5. FINISHED TRAIL BOUNDARY

**LEGEND**

- WORK LIMITS
- EXISTING LARGE WOODY MATERIAL
- PROPOSED LARGE WOODY MATERIAL
- EXISTING WETLAND

## LAND USE OVERLAY LEGEND

- STEEP SLOPE GEOLOGIC HAZARD
- DELINEATED WETLAND
- OHWM — ESTIMATED OHWM
- OHWM — DELINEATED OHWM
- COMBINED STREAM BUFFER
- COMBINED STREAM SETBACK
- COMBINED WETLAND BUFFER
- COMBINED WETLAND SETBACK
- 100-YR — MODELED 100-YEAR FLOODPLAIN
- 100-YR — 100-YEAR FLOODPLAIN (COB 2016)

0 20 40 60
SCALE IN FEET

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell : ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON
JANICE W. BERGMAN
NOT FOR CONSTRUCTION
REGISTERED LANDSCAPE ARCHITECT

| | |
|---|---|
| DESIGNED/DRAWN: W. ERICKSON | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: 1" = 20' |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# PROPOSED ACCESSIBLE TRAIL AT SPUR LOCATION

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-21000
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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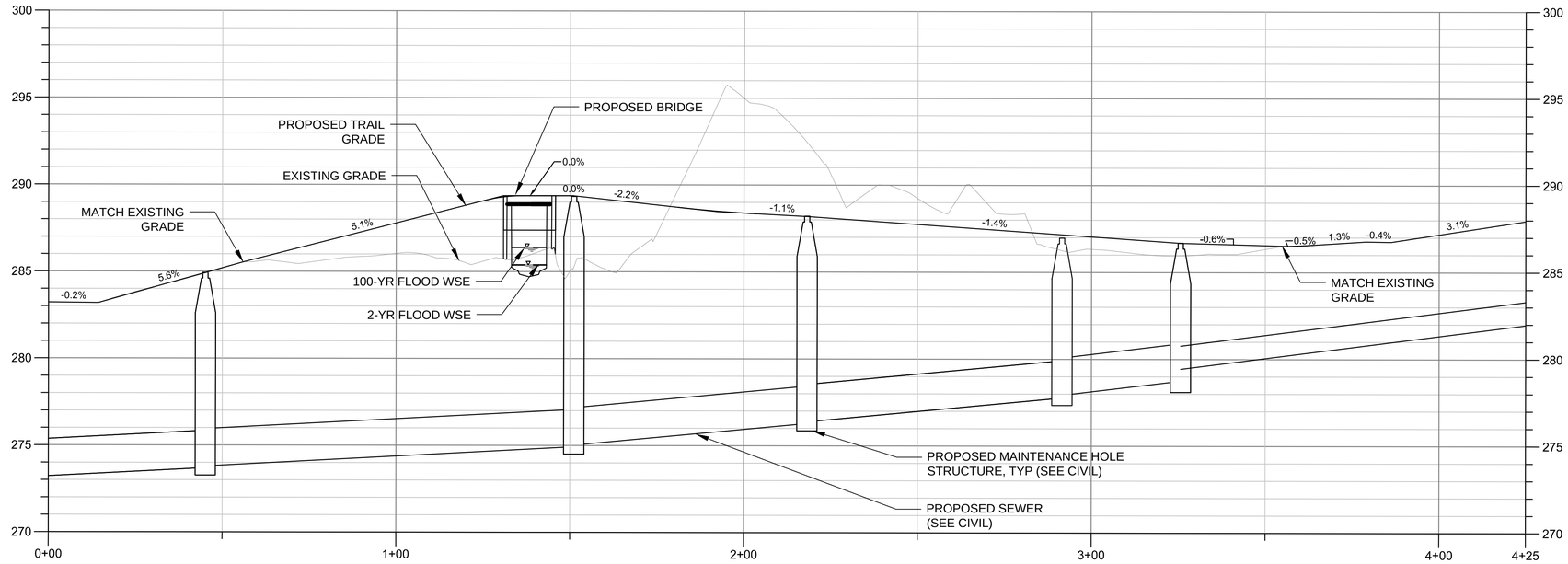


## PROPOSED ACCESSIBLE TRAIL

ELEVATION A

SCALE: 1"=20'; 1H:1V CCT900-L-21000

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

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AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON — STEVEN W. BERGER — 21009 — REGISTERED LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: W. ERICKSON | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# PROPOSED ACCESSIBLE TRAIL AT SPUR LOCATION PROFILE

DATE: DECEMBER 2020

DRAWING NO: CCT900-L-21001

SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-11:26:20am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg; ProgRoadatSpur.dwg
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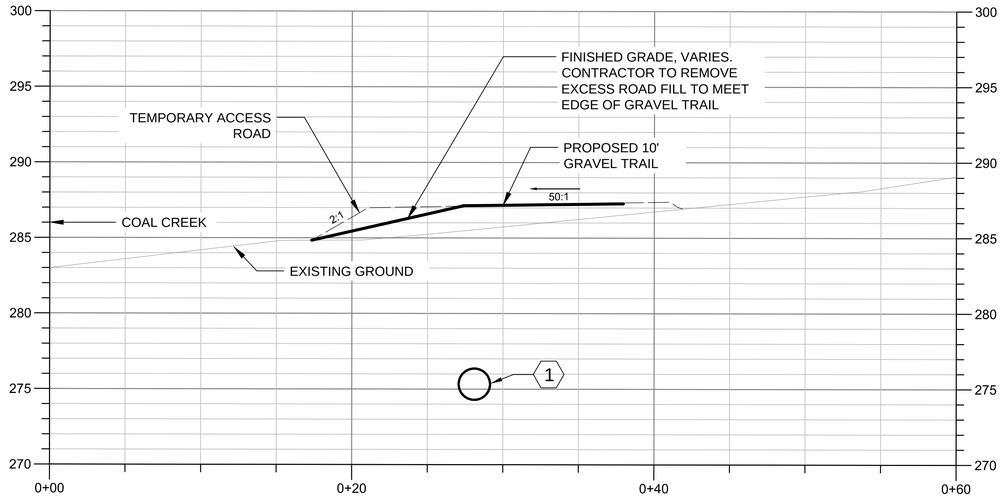
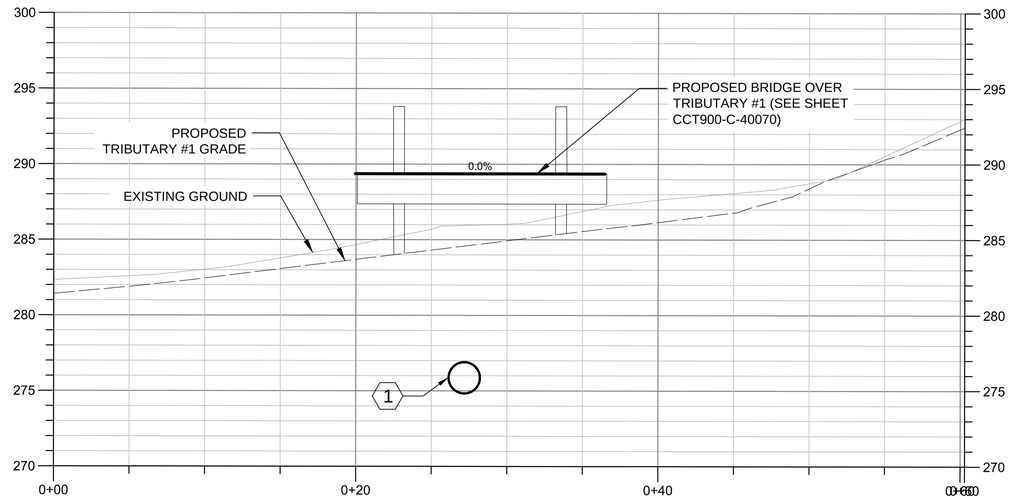


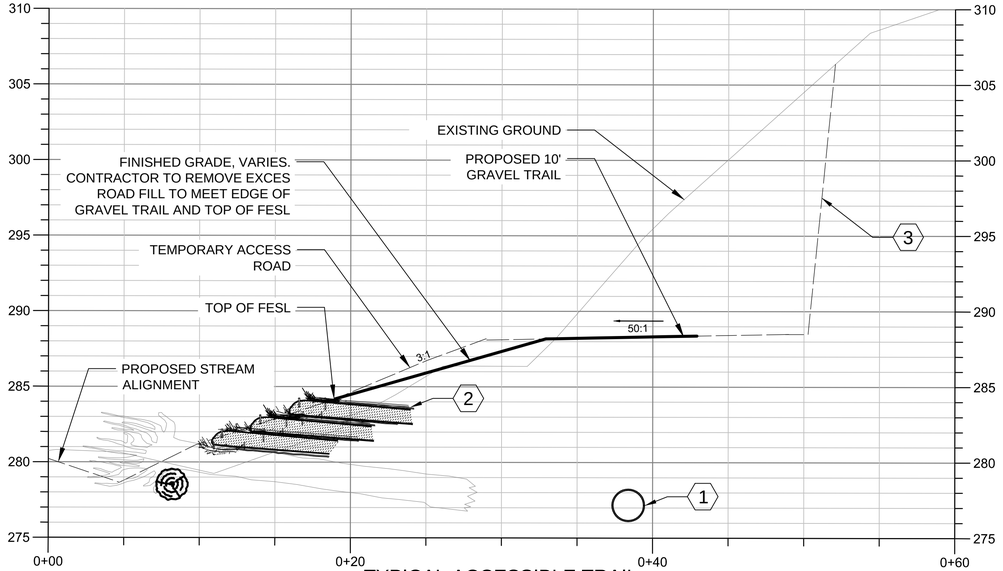

TYPICAL ACCESSIBLE TRAIL

SECTION A
SCALE: 1"=5'-0" CCT900-L-21000



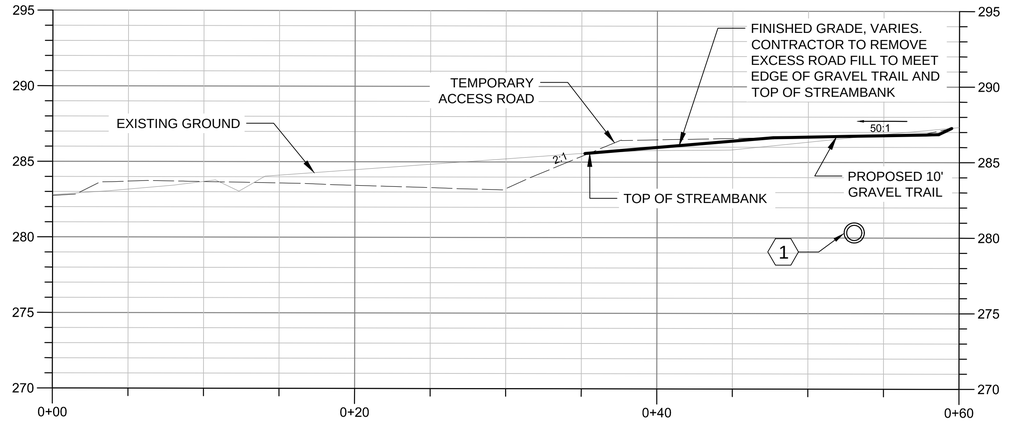

TYPICAL ACCESSIBLE TRAIL

SECTION B
SCALE: 1"=5'-0" CCT900-L-21000




TYPICAL ACCESSIBLE TRAIL

SECTION C
SCALE: 1"=5'-0" CCT900-L-21000




TYPICAL ACCESSIBLE TRAIL

SECTION D
SCALE: 1"=5'-0" CCT900-L-21000

## GENERAL NOTES

1. TEMPORARY ACCESS ROAD DRIVING SURFACE WIDTH 20FT WIDE THROUGHOUT.
2. FINISHED TRAIL GRADING WIDTH 10 FT WIDE THROUGHOUT.
3. FINISHED TRAIL GRADE REPRESENTS TYPICAL GRADING ONCE SEWER INSTALLATION IS COMPLETED.
4. REFER TO CCT900-L-41001 FOR TYPICAL TRAIL DETAIL.

## KEY NOTES

1. PROPOSED SEWER
2. STREAMBANK STABILIZATION. SEE SHEET CCT900-C-30161
3. PROPOSED WALL BY OTHERS. SEE STRUCTURAL SHEETS CCT900-S-20070 THROUGH S-40074.

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell | ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON · STEVEN W. BERGMAN · 21093 · EXP. 10/10/2021 · REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: W. ERICKSON | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# PROPOSED ACCESSIBLE TRAIL AT SPUR LOCATION SECTION

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-21002
SHT NO # / TOTAL #
REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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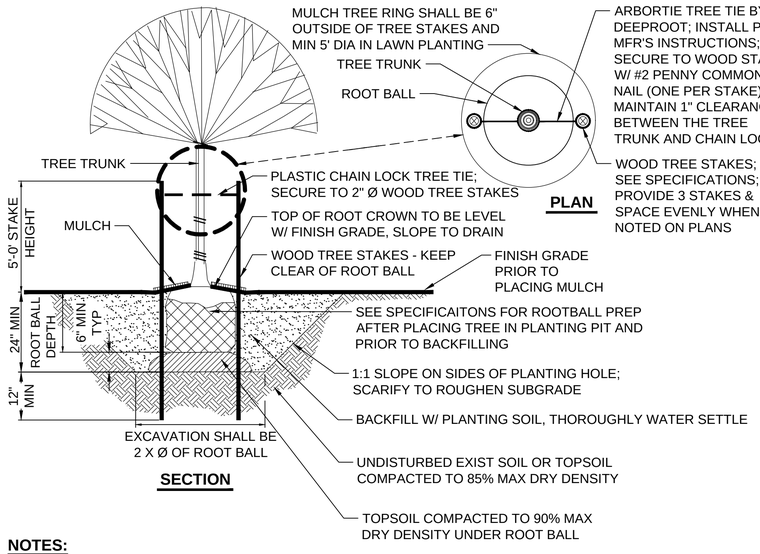


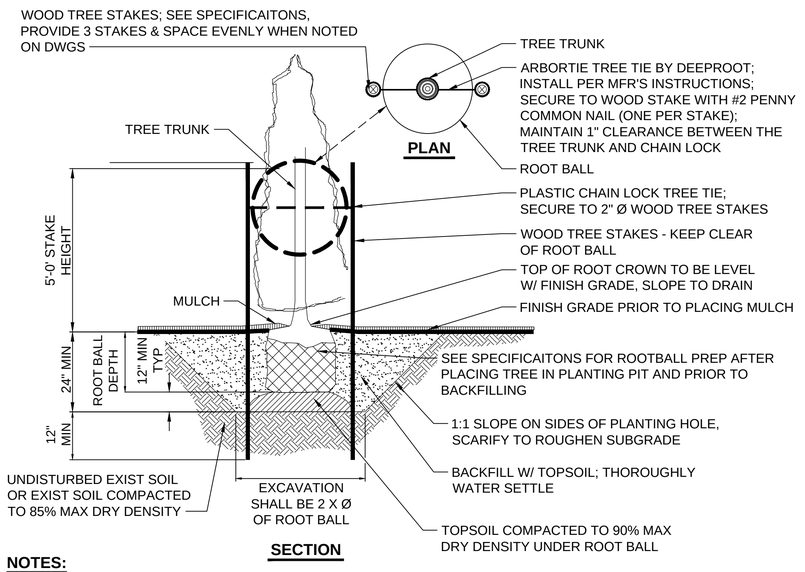

**NOTES:**

1. SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
2. PROVIDE 24" MIN DEPTH OF TOPSOIL AT DECIDUOUS TREE EXCAVATION.
3. ROTATE TREES IN PLANTING AREAS ADJACENT TO VEHICULAR ZONES SO THAT THE DOMINATE BRANCHES ALIGN PARALLEL TO THE VEHICULAR ZONES.

## DECIDUOUS TREE PLANTING

SCALE: NTS

1 VAR




**NOTES:**

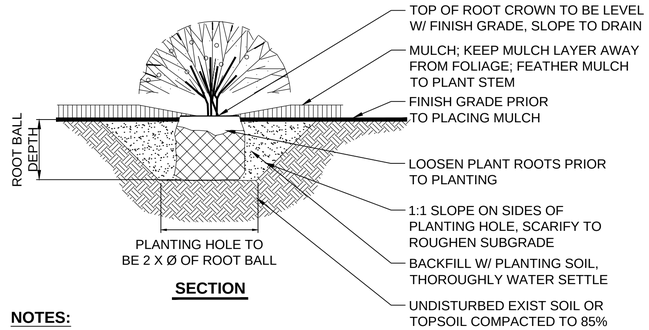
1. SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.
2. PROVIDE 24" MIN DEPTH OF TOPSOIL AT CONIFER TREE EXCAVATION.
3. FOR CONIFER TREES LESS THAN 6' IN HEIGHT, ONE TREE STAKE AT AN ANGLE IS ACCEPTABLE.

.

## CONIFER TREE PLANTING

SCALE: NTS

2 VAR



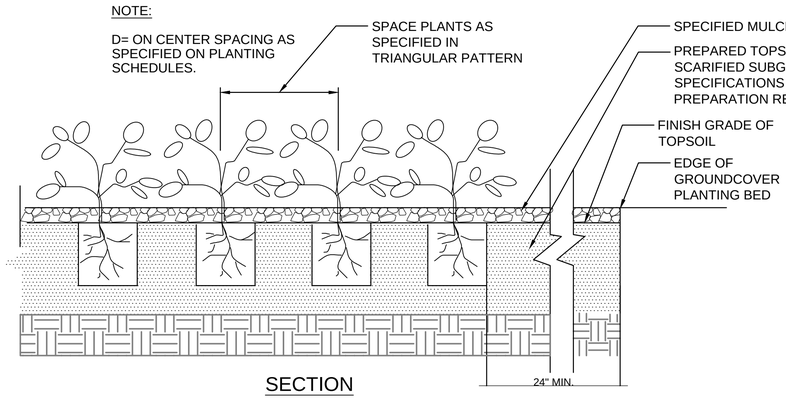

**NOTES:**

1. SEE SPECIFICATIONS FOR SOIL PLACEMENT DEPTH.

## SHRUB PLANTING

SCALE: NTS

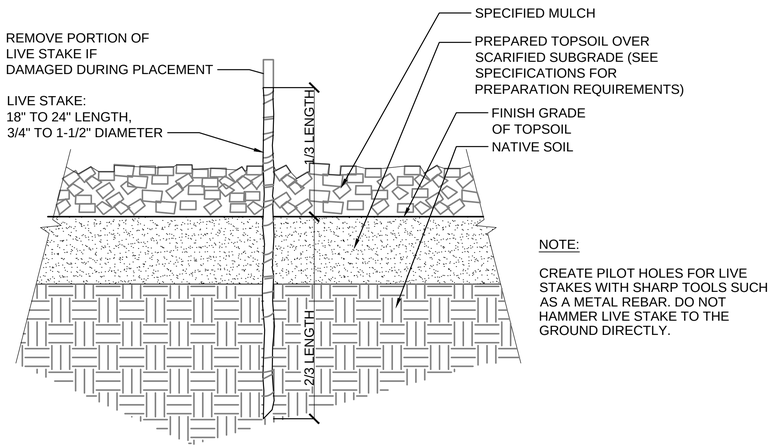
3 VAR




## GROUNDCOVER PLANTING

SCALE: NTS

4 VAR




## LIVE STAKE INSTALLATION

SCALE: NTS

5 VAR

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

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DECEMBER 2020

STATE OF WASHINGTON · GRACE W. BERGMAN · NOT FOR CONSTRUCTION · LANDSCAPE ARCHITECT

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE DETAILS 1

DATE: DECEMBER 2020

DRAWING NO: CCT900-L-41000

SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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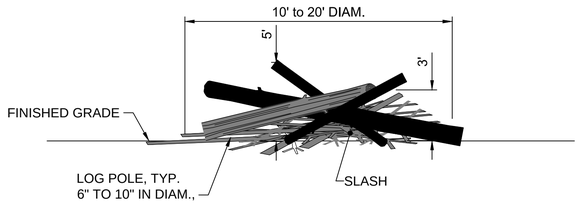
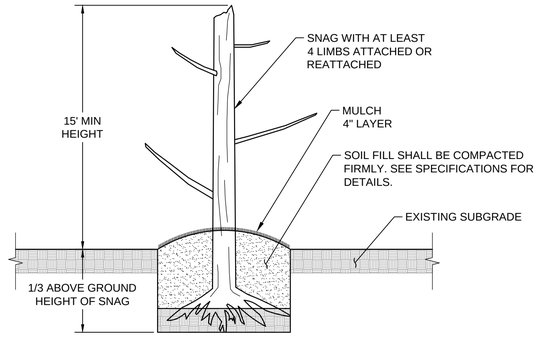
PLOTTED: Jul 29, 2020-11:53:21am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:




## BRUSH PILE INSTALLATION

SCALE: NTS

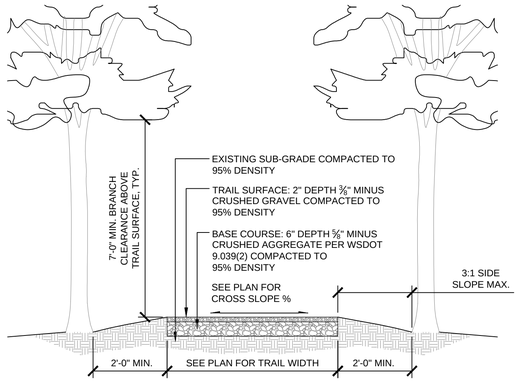
1 VAR




## SNAG CREATION

SCALE: NTS

2 VAR




NOTES:
1. ALL PLANS MUST BE APPROVED BY PROJECT REPRESENTATIVE PRIOR TO CONSTRUCTION OF TRAIL.
2. TRAIL CENTERLINE TO BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY PROJECT REPRESENTATIVE.
3. ALL HAZARD TREES AND TREE LIMBS, AS IDENTIFIED BY PROJECT ARBORIST, SHALL BE FELLED AND REMOVED FROM SITE.
4. PROVIDE WOVEN FILTER FABRIC BETWEEN MULCH AND SUB-GRADE. REFER TO SPECIFICATION FOR DETAILS.
5. SIZE OF BASE COURSE AND TRAIL SURFACE AGGREGATE MAY BE ADJUSTED DEPENDING ON SITE TOPOGRAPHY AND/OR SOIL CONDITIONS. ANY ADJUSTMENT SHALL BE APPROVED BY PROJECT REPRESENTATIVE PRIOR TO CONSTRUCTION.

## TYPICAL GRAVEL TRAIL

SCALE: NTS

3 VAR

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON · JACOB W. BERGMAN · 22393 · REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# LANDSCAPE DETAILS 2

DATE: DECEMBER 2020

DRAWING NO: **CCT900-L-41001**

SHT NO / TOTAL: # / #

REV NO: **0**

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-11:53:59am By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

## WETLAND ENHANCEMENT MIX

| TYPE | BOTANICAL NAME | COMMON NAME | SIZE | O.C.SPACING | RATE | REMARKS |
|---|---|---|---|---|---|---|
| TREE | ACER MACROPHYLLUM | BIGLEAF MAPLE | #2 CONT. | 12'-0" | 25% | NATURAL FORM; SINGLE LEADER |
| TREE | FRAXINUS LATIFOLIA | OREGON ASH | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| TREE | POPULUS BALSAMIFERA L. SSP. TRICHOCARPA | BLACK COTTONWOOD | #2 CONT. | 12'-0" | 30% | NATURAL FORM; SINGLE LEADER |
| TREE | PICEA SITCHENSIS | SITKA SPRUCE | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| TREE | THUJA PLICATA | WESTERN REDCEDAR | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| | | | | | | |
| SHRUB | CORNUS SERICEA | REDOSIER DOGWOOD | #1 CONT. | 4'-0" | 20% | |
| SHRUB | LONICERA INVOLUCRATA | BLACK TWINBERRY | #1 CONT. | 4'-0" | 10% | |
| SHRUB | PHYSOCARPUS CAPITATUS | PACIFIC NINEBARK | #1 CONT. | 4'-0" | 10% | |
| SHRUB | RIBES LACUSTRE | SWAMP GOOSEBERRY | #1 CONT. | 4'-0" | 5% | |
| SHRUB | RUBUS SPECTABILIS | SALMONBERRY | #1 CONT. | 4'-0" | 10% | |
| SHRUB | SALIX LUCIDA SSP. LASIANDRA | PACIFIC WILLOW | #1 CONT. | 4'-0" | 15% | |
| SHRUB | SALIX SITCHENSIS | SITKA WILLOW | #1 CONT. | 4'-0" | 15% | |
| SHRUB | SYMPHORICARPOS ALBUS | SNOWBERRY | #1 CONT. | 4'-0" | 15% | |
| | | | | | | |
| GROUNDCOVER | ATHYRIUM FILIX-FEMINA | COMMON LADYFERN | #1 CONT. | 2'-0" | 50% | MIN. 3 FRONDS |
| GROUNDCOVER | TOLMIEA MENZIESII | PIGGYBACK PLANT | 4" POT | 2'-0" | 50% | |

## WETLAND CREATION MIX

| TYPE | BOTANICAL NAME | COMMON NAME | SIZE | O.C.SPACING | RATE | REMARKS |
|---|---|---|---|---|---|---|
| TREE | FRAXINUS LATIFOLIA | OREGON ASH | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| TREE | PICEA SITCHENSIS | SITKA SPRUCE | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| TREE | SALIX LUCIDA SSP. LASIANDRA | PACIFIC WILLOW | LIVE STAKE | 18" | 30% | NATURAL FORM; SINGLE LEADER |
| TREE | SALIX SITCHENSIS | SITKA WILLOW | LIVE STAKE | 18" | 25% | NATURAL FORM; SINGLE LEADER |
| TREE | THUJA PLICATA | WESTERN REDCEDAR | #2 CONT. | 12'-0" | 15% | |
| | | | | | | |
| SHRUB | CORNUS SERICEA | REDOSIER DOGWOOD | #1 CONT. | 4'-0" | 20% | |
| SHRUB | LONICERA INVOLUCRATA | BLACK TWINBERRY | #1 CONT. | 4'-0" | 20% | |
| SHRUB | PHYSOCARPUS CAPITATUS | PACIFIC NINEBARK | #1 CONT. | 4'-0" | 20% | |
| SHRUB | RUBUS SPECTABILIS | SALMONBERRY | #1 CONT. | 4'-0" | 20% | |
| SHRUB | SYMPHORICARPOS ALBUS | SNOWBERRY | #1 CONT. | 4'-0" | 20% | |
| | | | | | | |
| GROUNDCOVER | ATHYRIUM FILIX-FEMINA | COMMON LADYFERN | #1 CONT. | 2'-0" | 50% | MIN. 3 FRONDS |
| GROUNDCOVER | TOLMIEA MENZIESII | PIGGYBACK PLANT | 4" POT | 2'-0" | 50% | MIN. 3 FRONDS |
| | | | | | | |
| EMERGENT | CAREX OBNUPTA | SLOUGH SEDGE | 10" plug | 18" | 70% | |
| EMERGENT | LYSICHITON AMERICANUS | WESTERN SKUNK CABBAGE | 10" plug | 18" | 30% | |
| | | | | | | |
| WETLAND SEED MIX | ELEOCHARIS PALUSTRIS | SPIKE RUSH | N/A | 1 POUND PER 1,000 SF | 40% | OTHER SEED MIX OR EQUIV. MUST CONTAIN KEY SPECIES AS SHOWN. SEE SPECIFICATIONS FOR DETAILS. |
| | HYDROPHYLLUM TENIPES | PACIFIC WATERLEAF | | | 20% | |
| | SCIRPUS MICROCARPUS | SMALL-FRUITED BULRUSH | | | 40% | |

## BUFFER MIX

| TYPE | BOTANICAL NAME | COMMON NAME | SIZE | O.C.SPACING | RATE | REMARKS |
|---|---|---|---|---|---|---|
| TREE | PSEUDOTSUGA MENZIESII | DOUGLAS-FIR | 5'-6' HT. | 20'-0" | 100% | NATURAL FORM; SINGLE LEADER |
| | | | | | | |
| SHRUB | ACER CIRCINATUM | VINE MAPLE | #5 CONT. | 12'-0" | 10% | MIN. 3 BRANCHES |
| SHRUB | CORYLUS CORNUTA | BEAKED HAZELNUT | #5 CONT. | 4'-0" | 10% | MIN. 3 BRANCHES |
| SHRUB | HOLODISCUS DISCOLOR | OCEANSPRAY | #2 CONT. | 4'-0" | 15% | |
| SHRUB | RIBES SANGUINEUM | REDFLOWER CURRANT | #2 CONT. | 4'-0" | 15% | |
| SHRUB | RUBUS PARVIFLORUS | THIMBLEBERRY | #1 CONT. | 4'-0" | 15% | |
| SHRUB | SYMPHORICARPOS ALBUS | SNOWBERRY | #1 CONT. | 4'-0" | 15% | |
| SHRUB | VACCINIUM OVATUM | EVERGREEN HUCKLEBERRY | #1 CONT. | 4'-0" | 15% | |
| | | | | | | |
| GROUNDCOVER | ATHYRIUM FILIX-FEMINA | COMMON LADYFERN | #1 CONT. | 2'-0" | 10% | MIN. 3 FRONDS |
| GROUNDCOVER | GAULTHERIA SHALLON | SALAL | #1 CONT. | 2'-0" | 25% | |
| GROUNDCOVER | MAHONIA NERVOSA | LOW OREGON-GRAPE | #1 CONT. | 2'-0" | 25% | |
| GROUNDCOVER | POLYSTICHUM MUNITUM | WESTERN SWORD FERN | #1 CONT. | 2'-0" | 25% | MIN. 3 FRONDS |
| GROUNDCOVER | TOLMIEA MENZIESII | PIGGYBACK PLANT | #1 CONT. | 2'-0" | 15% | |

## BUFFER ENHANCEMENT MIX

| TYPE | BOTANICAL NAME | COMMON NAME | SIZE | O.C.SPACING | RATE | REMARKS |
|---|---|---|---|---|---|---|
| TREE | ABIES GRANDIS | GRAND FIR | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| TREE | ACER MACROPHYLLUM | BIGLEAF MAPLE | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| TREE | PSEUDOTSUGA MENZIESII | DOUGLAS-FIR | #2 CONT. | 12'-0" | 25% | NATURAL FORM; SINGLE LEADER |
| TREE | THUJA PLICATA | WESTERN REDCEDAR | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| TREE | TSUGA HETEROPHYLLA | WESTERN HEMLOCK | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| TREE | SALIX SCOULERIANA | SCOULER'S WILLOW | #2 CONT. | 12'-0" | 15% | NATURAL FORM; SINGLE LEADER |
| | | | | | | |
| SHRUB | ACER CIRCINATUM | VINE MAPLE | #1 CONT. | 4'-0" | 10% | MIN. 3 BRANCHES |
| SHRUB | CORYLUS CORNUTA | BEAKED HAZELNUT | #1 CONT. | 4'-0" | 10% | MIN. 3 BRANCHES |
| SHRUB | HOLODISCUS DISCOLOR | OCEANSPRAY | #1 CONT. | 4'-0" | 10% | |
| SHRUB | MAHONIA AQUIFOLIUM | TALL OREGON-GRAPE | #1 CONT. | 4'-0" | 5% | |
| SHRUB | OEMLERIA CERASIFORMIS | OSOBERRY | #1 CONT. | 4'-0" | 10% | |
| SHRUB | RIBES SANGUINEUM | REDFLOWER CURRANT | #1 CONT. | 4'-0" | 10% | |
| SHRUB | ROSA GYMNOCARPA | BALDHIP ROSE | #1 CONT. | 4'-0" | 10% | |
| SHRUB | RUBUS PARVIFLORUS | THIMBLEBERRY | #1 CONT. | 4'-0" | 10% | |
| SHRUB | SYMPHORICARPOS ALBUS | SNOWBERRY | #1 CONT. | 4'-0" | 15% | |
| SHRUB | VACCINIUM OVATUM | EVERGREEN HUCKLEBERRY | #1 CONT. | 4'-0" | 10% | |
| | | | | | | |
| GROUNDCOVER | GAULTHERIA SHALLON | SALAL | #1 CONT. | 2'-0" | 35% | |
| GROUNDCOVER | FRAGARIA CHILOENSIS | SAND STRAWBERRY | 4" POT | 2'-0" | 15% | |
| GROUNDCOVER | MAHONIA NERVOSA | LOW OREGON-GRAPE | #1 CONT. | 2'-0" | 25% | |
| GROUNDCOVER | POLYSTICHUM MUNITUM | WESTERN SWORD FERN | #1 CONT. | 2'-0" | 25% | MIN. 3 FRONDS |

## UPLAND/ BUFFER MIX

| TYPE | BOTANICAL NAME | COMMON NAME | SIZE | O.C.SPACING | RATE | REMARKS |
|---|---|---|---|---|---|---|
| TREE | ABIES GRANDIS | GRAND FIR | #2 CONT. | 12'-0" | 25% | NATURAL FORM; SINGLE LEADER |
| TREE | PSEUDOTSUGA MENZIESII | DOUGLAS-FIR | #2 CONT. | 12'-0" | 50% | NATURAL FORM; SINGLE LEADER |
| TREE | TSUGA HETEROPHYLLA | WESTERN HEMLOCK | #2 CONT. | 12'-0" | 25% | NATURAL FORM; SINGLE LEADER |
| | | | | | | |
| SHRUB | ACER CIRCINATUM | VINE MAPLE | #2 CONT. | 12'-0" | 5% | MIN. 3 BRANCHES |
| SHRUB | CORYLUS CORNUTA | BEAKED HAZELNUT | #1 CONT. | 4'-0" | 5% | MIN. 3 BRANCHES |
| SHRUB | HOLODISCUS DISCOLOR | OCEANSPRAY | #1 CONT. | 4'-0" | 15% | |
| SHRUB | RIBES SANGUINEUM | REDFLOWER CURRANT | #1 CONT. | 4'-0" | 20% | |
| SHRUB | RUBUS PARVIFLORUS | THIMBLEBERRY | #1 CONT. | 4'-0" | 20% | |
| SHRUB | SYMPHORICARPOS ALBUS | SNOWBERRY | #1 CONT. | 4'-0" | 15% | |
| SHRUB | VACCINIUM OVATUM | EVERGREEN HUCKLEBERRY | #1 CONT. | 4'-0" | 20% | |
| | | | | | | |
| GROUNDCOVER | MAHONIA NERVOSA | LOW OREGON-GRAPE | #1 CONT. | 2'-0" | 35% | |
| GROUNDCOVER | POLYSTICHUM MUNITUM | WESTERN SWORD FERN | #1 CONT. | 2'-0" | 35% | MIN. 3 FRONDS |
| GROUNDCOVER | TOLMIEA MENZIESII | PIGGYBACK PLANT | 4" POT | 2'-0" | 30% | |

## STREAMBANK MIX

| TYPE | BOTANICAL NAME | COMMON NAME | SIZE | O.C.SPACING | RATE | REMARKS |
|---|---|---|---|---|---|---|
| TREE | PICEA SITCHENSIS | SITKA SPRUCE | #2 CONT. | 12'-0" | 25% | NATURAL FORM; SINGLE LEADER |
| TREE | SALIX LUCIDA SSP. LASIANDRA | PACIFIC WILLOW | LIVE STAKE | 18" | 30% | NATURAL FORM; SINGLE LEADER |
| TREE | SALIX SITCHENSIS | SITKA WILLOW | LIVE STAKE | 18" | 30% | NATURAL FORM; SINGLE LEADER |
| TREE | THUJA PLICATA | WESTERN REDCEDAR | #2 CONT. | 12'-0" | 15% | |
| | | | | | | |
| SHRUB | CORNUS SERICEA | REDOSIER DOGWOOD | #1 CONT. | 4'-0" | 20% | |
| SHRUB | LONICERA INVOLUCRATA | BLACK TWINBERRY | #1 CONT. | 4'-0" | 10% | |
| SHRUB | PHYSOCARPUS CAPITATUS | PACIFIC NINEBARK | #1 CONT. | 4'-0" | 10% | |
| SHRUB | RIBES LACUSTRE | SWAMP GOOSEBERRY | #1 CONT. | 4'-0" | 15% | |
| SHRUB | RUBUS SPECTABILIS | SALMONBERRY | #1 CONT. | 4'-0" | 20% | |
| SHRUB | SYMPHORICARPOS ALBUS | SNOWBERRY | #1 CONT. | 4'-0" | 15% | |
| | | | | | | |
| GROUNDCOVER | ATHYRIUM FILIX-FEMINA | COMMON LADYFERN | #1 CONT. | 2'-0" | 50% | MIN. 3 FRONDS |
| GROUNDCOVER | TOLMIEA MENZIESII | PIGGYBACK PLANT | 4" POT | 2'-0" | 50% | MIN. 3 FRONDS |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell : ch2m:
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

STATE OF WASHINGTON — JACOB W. REDMAN — 22003 — REGISTERED LANDSCAPE ARCHITECT
NOT FOR CONSTRUCTION
NOT VALID IF EXPIRED OR ALTERED

| | |
|---|---|
| DESIGNED/DRAWN: G. BERGMAN | CHECKED: L. KORSGAARD |
| PROJECT ENGINEER: R. JACOBSEN | SCALE: AS NOTED |
| DESIGN APPROVAL: J. PAULSON | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# PLANT SCHEDULE

DATE: DECEMBER 2020
DRAWING NO: CCT900-L-51000
SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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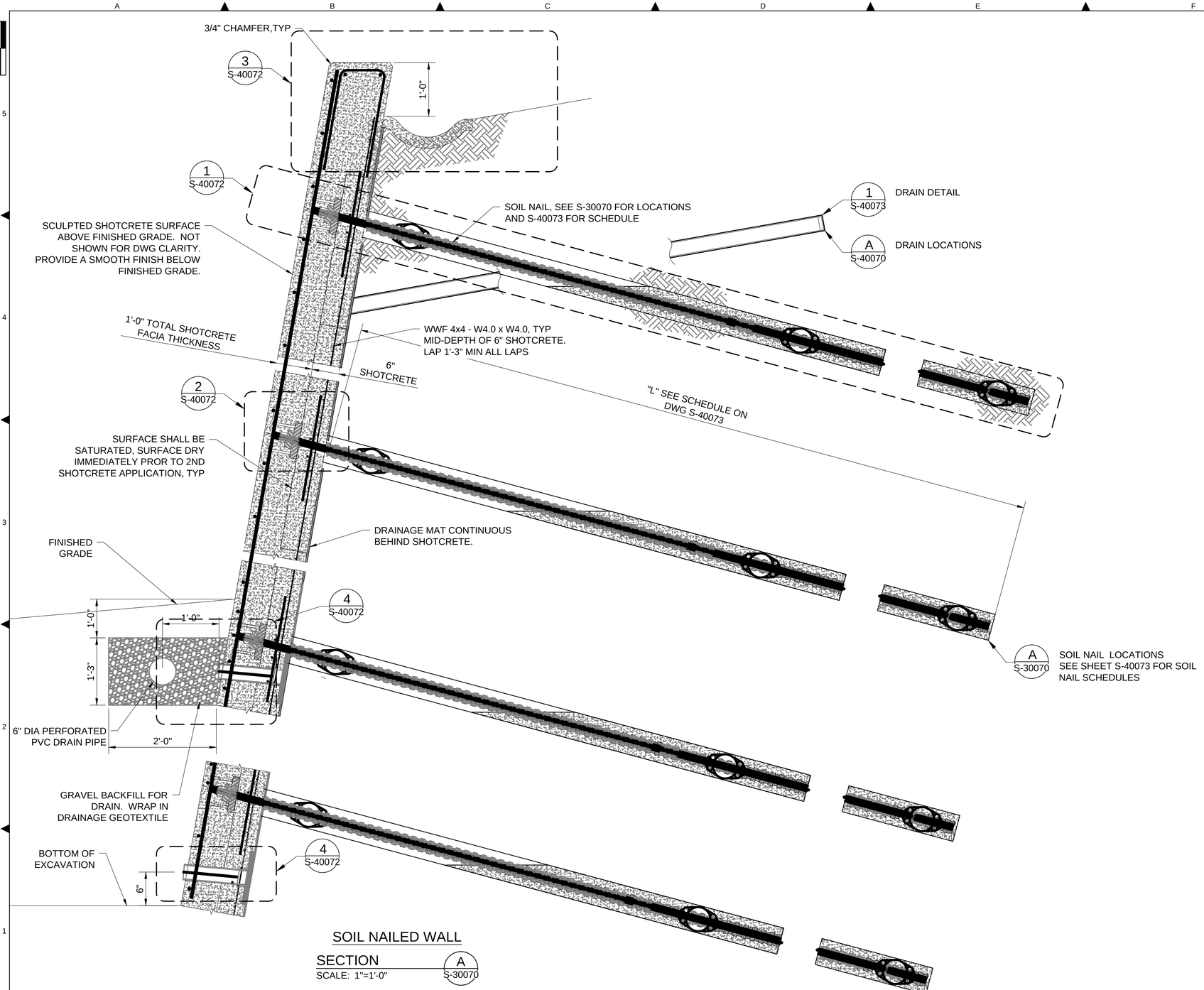


## SOIL NAILED WALL

SECTION A S-30070

SCALE: 1"=1'-0"

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
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DECEMBER 2020

DONALD M. ROBERTS — STATE OF WASHINGTON — 20403 — PROFESSIONAL ENGINEER — CIVIL STRUCTURAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: R. ROBERTS | CHECKED: |
| PROJECT ENGINEER: RWJ | SCALE: AS NOTED |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOIL NAILED WALL SECTIONS AND DETAILS 1

DATE: DECEMBER 2020

DRAWING NO: CCT900-S-40070

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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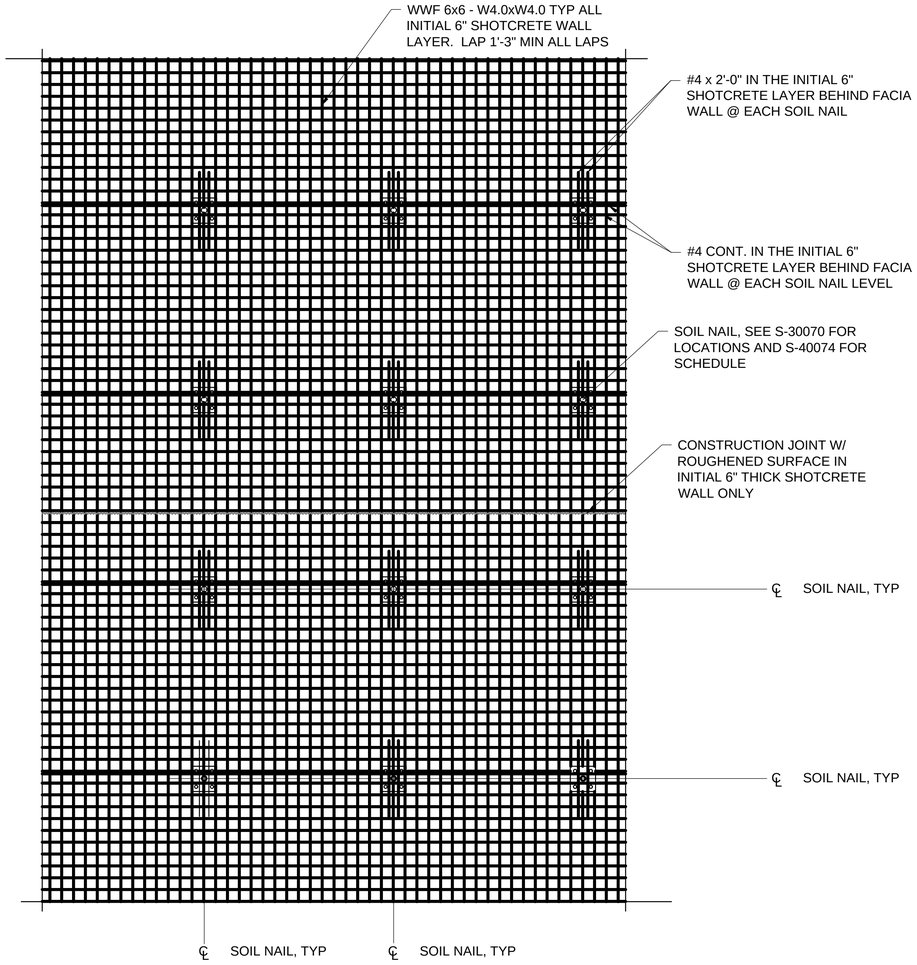
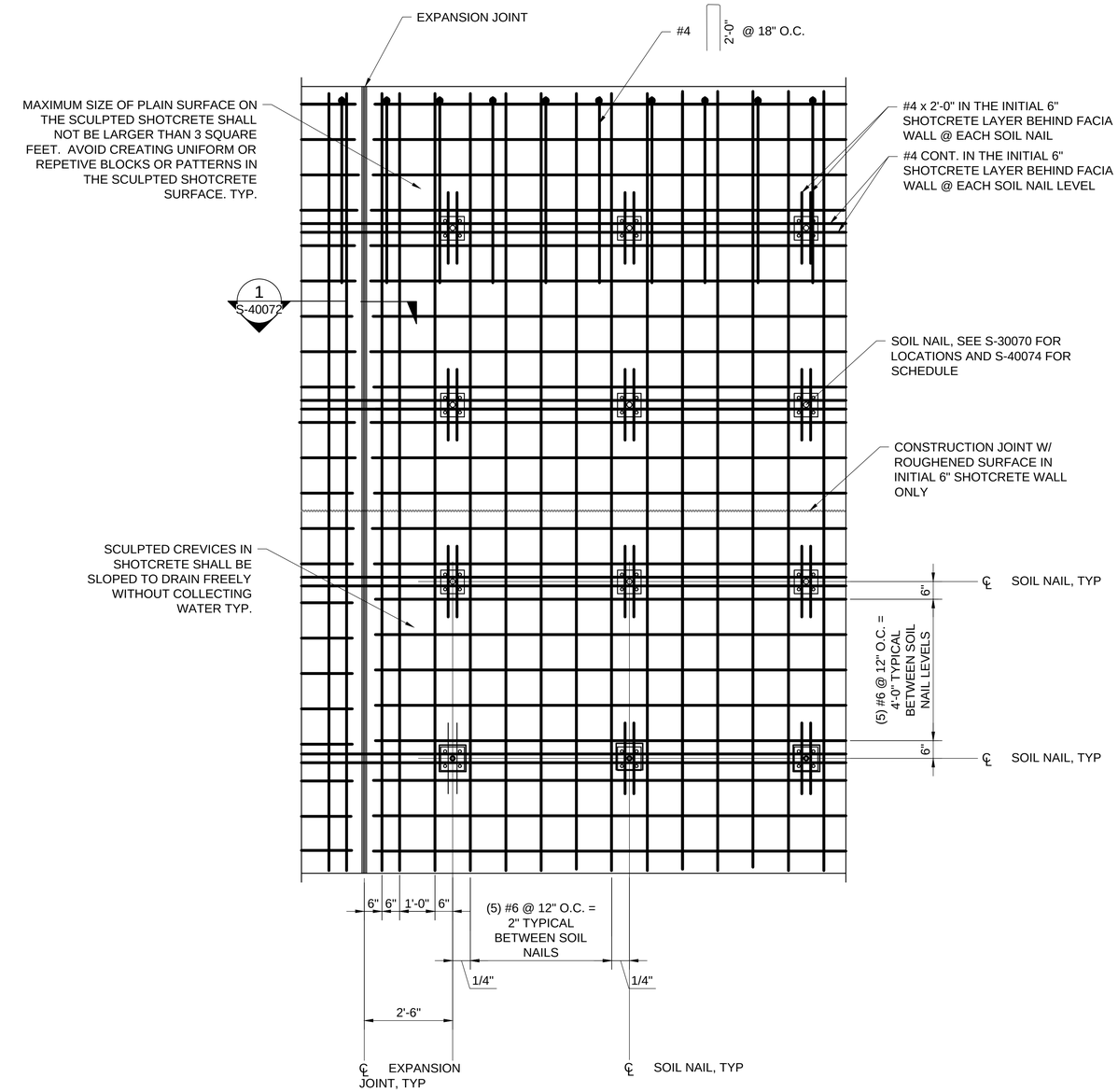



TYPICAL 6" SHOTCRETE WALL REINFORCING

ELEVATION B
SCALE: 1/2"=1'-0" S-30070




TYPICAL FACIA WALL REINFORCING

ELEVATION C
SCALE: 1/2"=1'-0" S-30070

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
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**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

RONALD M. ROBERTS — STATE OF WASHINGTON — 20403 — REGISTERED PROFESSIONAL ENGINEER
NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: R. ROBERTS | CHECKED: |
| PROJECT ENGINEER: RWJ | SCALE: AS NOTED |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOIL NAILED WALL SECTIONS AND DETAILS 2

DATE: DECEMBER 2020
DRAWING NO: CCT900-S-40071
SHT NO / TOTAL #
REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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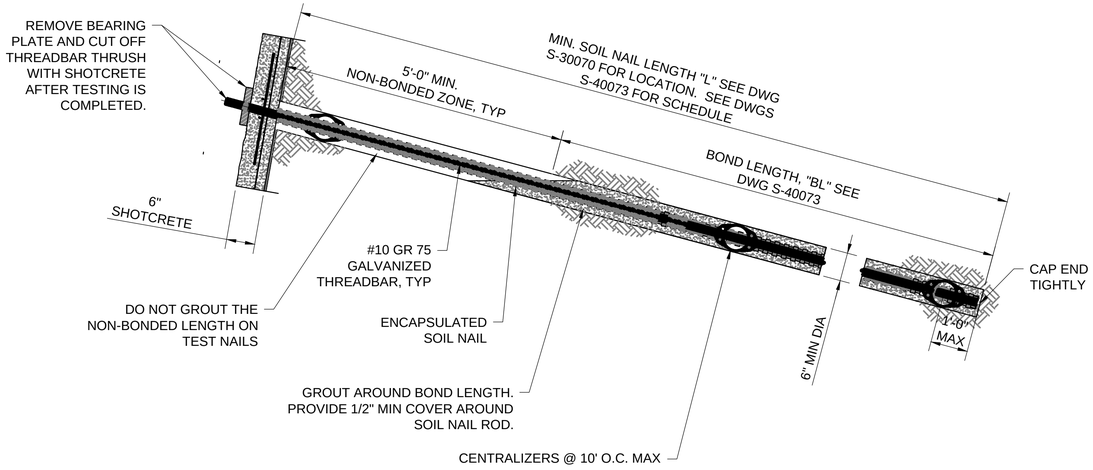
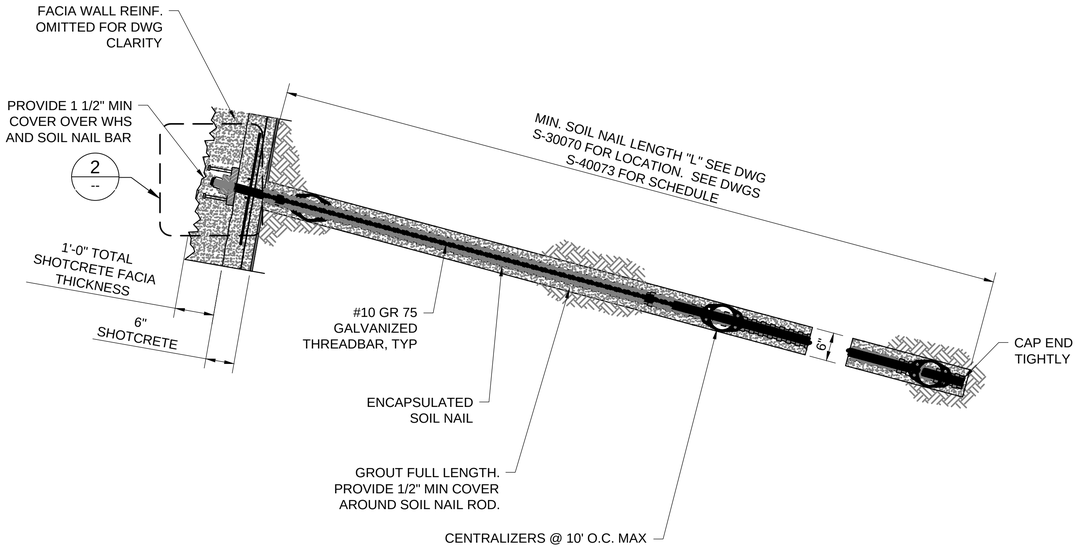



## TEST SOIL NAIL

DETAIL 1 / S-40070

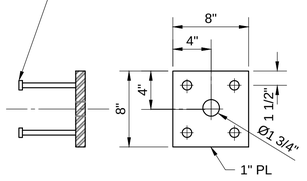
SCALE: NTS




## PERMANENT SOIL NAIL

DETAIL 2 / S-40070

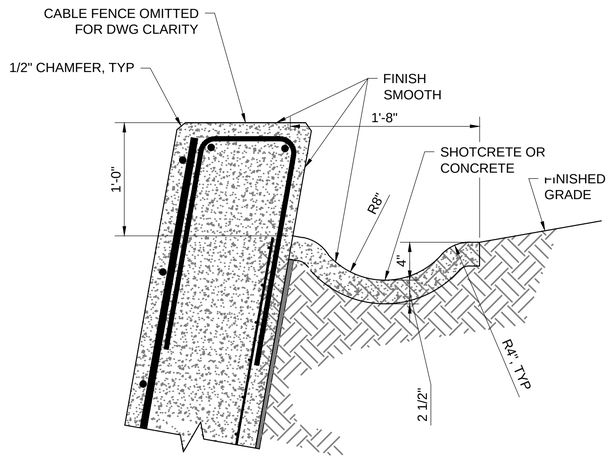
SCALE: NTS




## SOIL NAIL ANCHOR PLATE

DETAIL 2 / S-40070

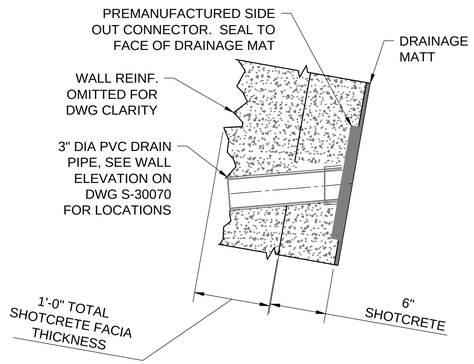
SCALE: 1 1/2"=1'-0"




## TOP OF WALL GUTTER

DETAIL 3 / S-40070

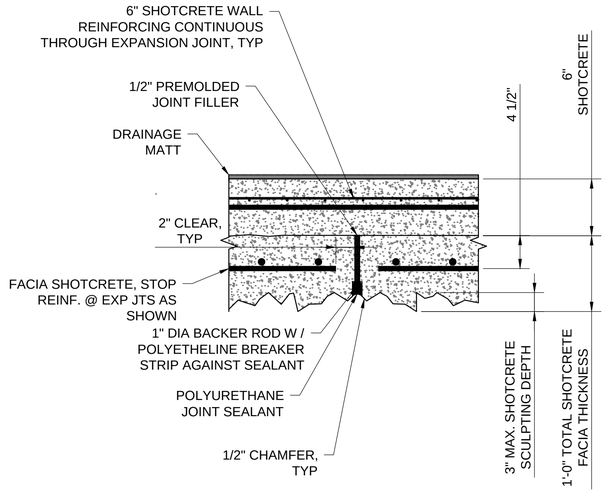
SCALE: 1 1/2"=1'-0"




## WEEP HOLE AND DRAIN PIPE

DETAIL 4 / S-40070

SCALE: 1 1/2"=1'-0"




## WALL EXPANSION JOINT

SECTION 1 / S-40070

SCALE: 1 1/2"=1'-0"

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

**PERMIT ISSUE**

This document version is designed to contain sufficient relevant information for the applicable Permit Review submittal and approval process.

DECEMBER 2020

DONALD M. ROBERTS — STATE OF WASHINGTON — 20403 — PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: RMR | CHECKED: |
| PROJECT ENGINEER: RWJ | SCALE: AS NOTED |
| DESIGN APPROVAL: | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SOIL NAILED WALL SECTIONS AND DETAILS 3

DATE: DECEMBER 2020

DRAWING NO: CT900-S-40072

SHT NO / TOTAL: #

REV NO:

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-12:57:22pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

| LEGEND | |
|---|---|
| L | Minimum Nail Length (ft) |
| α | Nail Declination (deg.) |
| ψ | Horizontal Splay (deg) |
| BL | Bonded Length (ft) |
| Bar # | Min. Steel Bar Size |
| DLT | Design Load Transfer (#/ft) |
| S | Horizontal Spacing of Nails |

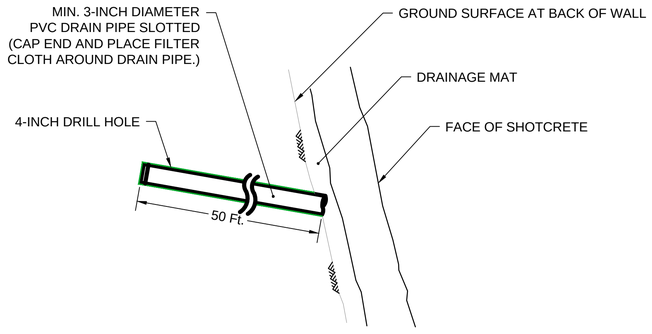
**Note: No splay is anticipated.**

## VERIFICATION TEST SCHEDULE

| Row | Nail No. | L (feet) | α (Deg) | ψ (Deg) | BL (feet) | Bar # | Bar Steel Grade (Ksi) | DLT |
|---|---|---|---|---|---|---|---|---|
| El. 300.0 | A | 15 | 10 | - | 10 | 10 | 75 | 1000 |
| El. 300.0 | B | 15 | 10 | - | 10 | 10 | 75 | 1000 |
| El. 296.0 | C | 30 | 15 | - | 15 | 10 | 75 | 2000 |
| El. 296.0 | D | 30 | 15 | - | 15 | 10 | 75 | 2000 |
| El. 288.0 | E | 30 | 15 | - | 15 | 10 | 75 | 2000 |
| El. 288.0 | F | 30 | 15 | - | 15 | 10 | 75 | 2000 |

## PROOF TEST SCHEDULE

| Row | Nail No. | L (feet) | α (Deg) | ψ (Deg) | BL (feet) | Bar # | Bar Steel Grade (Ksi) | DLT |
|---|---|---|---|---|---|---|---|---|
| El. 301.2 | 6 | 45 | 10 | - | 20 | 10 | 75 | 2000 |
| El. 298.0 | 9 | 45 | 15 | - | 20 | 10 | 75 | 2000 |
| El. 294.0 | 33 | 45 | 15 | - | 20 | 10 | 75 | 2000 |
| El. 290.0 | 39 | 45 | 15 | - | 20 | 10 | 75 | 2000 |
| El. 286.0 | 66 | 45 | 15 | - | 20 | 10 | 75 | 2000 |
| El. 282.0 | 79 | 45 | 15 | - | 20 | 10 | 75 | 2000 |
| El. 278.0 | 116 | 45 | 15 | - | 20 | 10 | 75 | 2000 |




HORIZONTAL DRAIN AND DRAINAGE MAT DETAIL

DETAIL 1 / S-40070

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

## SOIL NAIL SCHEDULE

| Row | Nail No. | L (feet) | α (Deg) | ψ (Deg) | BL (feet) | Bar # | Bar Steel Grade (Ksi) |
|---|---|---|---|---|---|---|---|
| El. 300.9 | 1 | 45 | 10 | - | 4 | 10 | 75 |
| El. 302.0 | 2 | 45 | 10 | - | 4 | 10 | 75 |
| El. 303.0 | 3 | 45 | 10 | - | 4 | 10 | 75 |
| El. 302.2 | 4 | 45 | 10 | - | 4 | 10 | 75 |
| El. 301.8 | 5 | 45 | 10 | - | 4 | 10 | 75 |
| El. 301.2 | 6 | 45 | 10 | - | 4 | 10 | 75 |
| El. 301.0 | 7 | 45 | 10 | - | 4 | 10 | 75 |
| El. 297.5 | 8 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 9 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 10 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 11 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 12 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 13 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 14 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 15 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 16 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 17 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 18 | 45 | 15 | - | 4 | 10 | 75 |
| El. 298.0 | 19 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 20 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 21 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 22 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 23 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 24 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 25 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 26 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 27 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 28 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 29 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 30 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 31 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 32 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 33 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 34 | 45 | 15 | - | 4 | 10 | 75 |
| El. 294.0 | 35 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 36 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 37 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 38 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 39 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 40 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 41 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 42 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 43 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 44 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 45 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 46 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 47 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 48 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 49 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 50 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 51 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 52 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 53 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 54 | 45 | 15 | - | 4 | 10 | 75 |
| El. 290.0 | 55 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 56 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 57 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 58 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 59 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 60 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 61 | 45 | 15 | - | 4 | 10 | 75 |

## SOIL NAIL SCHEDULE

| Row | Nail No. | L (feet) | α (Deg) | ψ (Deg) | BL (feet) | Bar # | Bar Steel Grade (Ksi) |
|---|---|---|---|---|---|---|---|
| El. 286.0 | 62 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 63 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 64 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 65 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 66 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 67 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 68 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 69 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 70 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 71 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 72 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 73 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 74 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 75 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 76 | 45 | 15 | - | 4 | 10 | 75 |
| El. 286.0 | 77 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 78 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 79 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 80 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 81 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 82 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 83 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 84 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 85 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 86 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 87 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 88 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 89 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 90 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 91 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 92 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 93 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 94 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 95 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 96 | 45 | 15 | - | 4 | 10 | 75 |
| El. 282.0 | 97 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 98 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 99 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 100 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 101 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 102 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 103 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 104 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 105 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 106 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 107 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 108 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 109 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 110 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 111 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 112 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 113 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 114 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 115 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 116 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 117 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 118 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 119 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 120 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 121 | 45 | 15 | - | 4 | 10 | 75 |
| El. 278.0 | 122 | 45 | 15 | - | 4 | 10 | 75 |

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

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DECEMBER 2020

JOB LAW RISKEN — STATE OF WASHINGTON — NOT FOR CONSTRUCTION — 20110990 — REGISTERED PROFESSIONAL ENGINEER

| | |
|---|---|
| DESIGNED/DRAWN: J. RISKEN | CHECKED: CAD LEAD |
| PROJECT ENGINEER: ENGINEER | SCALE: AS NOTED |
| DESIGN APPROVAL: ENG LEAD | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# SPUR WALL DETAILS AND SOIL NAIL SCHEDULE

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-40073

SHT NO # / TOTAL # | REV NO: 0


REFERENCE 1" 0
BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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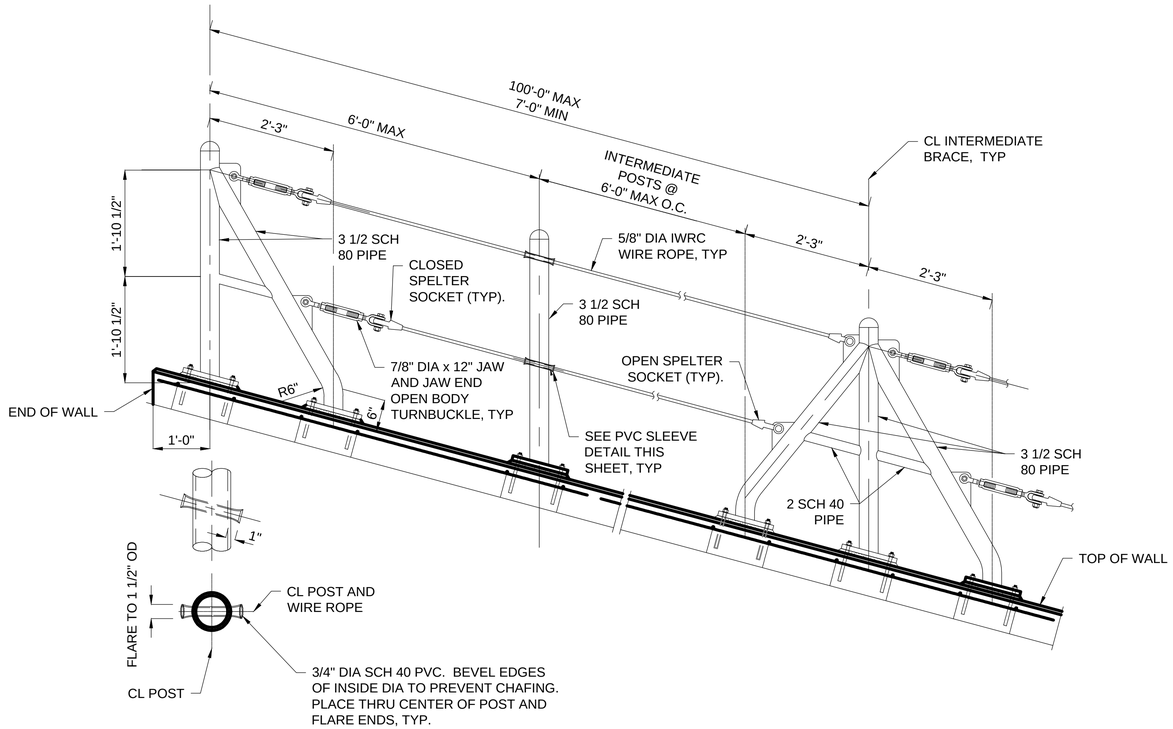
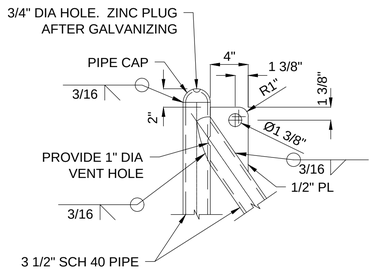
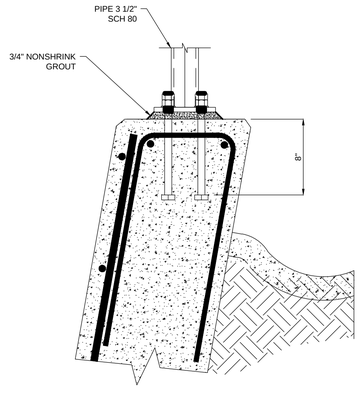


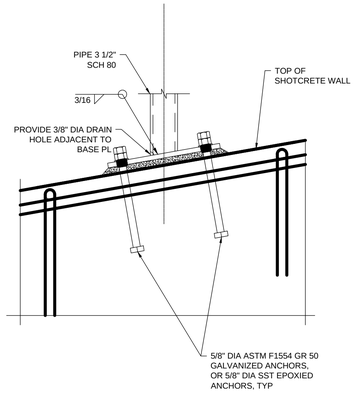

TYPICAL CABLE FENCE ELEVATION

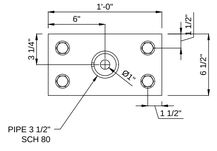
SCALE: 3/4"=1'-0"

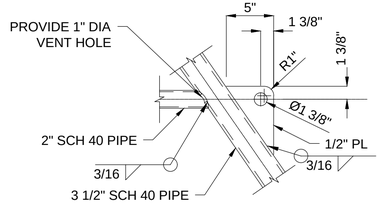
A S-30070




## NOTES & SYMBOLS:

1. ALL STEEL PIPE SHALL BE ASTM A53 GRADE B OR APPROVED EQUAL.
2. ALL STEEL PLATES SHALL BE ASTM A36 OR ASTM A572.
3. WIRE ROPE SHALL CONSIST OF ZINC-COATED WIRES CONFORMING TO ASTM A603 OR ASTM A1023 WITH A PRESTRETCHED MODULUS OF ELASTICITY OF 15,000 KSI.
4. ALL PARTS AND ASSEMBLIES, EXCEPT ROPE, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111, M232, OR ASTM F2329 AFTER FABRICATION, UNLESS NOTED OTHERWISE.
5. THE SPELTER SOCKETS AND SOCKETING PROCEDURE SHALL BE IN ACCORDANCE WITH THE SPELTER SOCKET AND ROPE MANUFACTURERS RECOMMENDATIONS.
6. ALL POSTS SHALL BE INSTALLED VERTICAL AND WIRE ROPE SHALL BE INSTALLED PARALLEL TO THE TOP OF WALL.
7. WIRE ROPE SHALL BE INSTALLED TO 400 POUNDS TENSION WITH A TAKE UP OF 6" STILL AVAILABLE IN THE TURNBUCKLE.
8. EACH CONTINUOUS LENGTH OF WIRE ROPE SHALL HAVE A TURNBUCKLE AT ONE END ONLY AND BE ANCHORED TO THE END POST WITH BRACES AT BOTH ENDS.
9. WIRE ROPE, SPELTER SOCKETS, TURNBUCKLES AND THEIR CONNECTION HARDWARE SHALL HAVE A MINIMUM BREAKING STRENGTH OF 26 KIPS.

| NO | REVISION DESCRIPTION | BY | APVD | DATE |
|---|---|---|---|---|

Brown AND Caldwell
AND ASSOCIATED FIRMS

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DECEMBER 2020

DONALD M. ROBERTS — STATE OF WASHINGTON — 20403 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

| | |
|---|---|
| DESIGNED/DRAWN: R. ROBERTS | CHECKED: CAD LEAD |
| PROJECT ENGINEER: ENGINEER | SCALE: AS NOTED |
| DESIGN APPROVAL: ENG LEAD | PROJECT FILE NO: 18-1123624 |
| PROJECT ACCEPTANCE: E. MATSON | CONTRACT NO: 1123624 |

King County

DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION
COAL CREEK TRUNK UPGRADE

# CABLE FENCE DETAILS

DATE: DECEMBER 2020

DRAWING NO: CCT900-C-40074

SHT NO # / TOTAL # | REV NO: 0

BORDER FILE EDITION: KCWTD-2015R0-Dsize-TB-Border
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PLOTTED: Jul 29, 2020-12:59:44pm By kinseym2
XREFS: KCWTD-Dsize-TB-Border.dwg
IMAGES:

King County

Department of Natural Resources and Parks
**Wastewater Treatment Division**
King Street Center, KSC-NR-0505
201 South Jackson Street
Seattle, WA 98104

**Environmental Checklist**

**for the**

# King County Wastewater Treatment Division

# Coal Creek Trunk Upgrade Project

January 2021

Prepared in compliance with the State Environmental Policy Act (SEPA) (RCW 43.21C), the SEPA Rules (WAC 197-11), and Chapter 20.44 King County Code, implementing SEPA in King County procedures.

This information is available in accessible formats upon request at 206-477-5371 (voice) or 711 (TTY).

# ENVIRONMENTAL CHECKLIST

## A. BACKGROUND

### 1. Name of proposed project, if applicable:

Coal Creek Trunk Upgrade Project

### 2. Name of applicant:

King County Wastewater Treatment Division (WTD),
Department of Natural Resources and Parks

### 3. Address and phone number of applicant and contact person:

King County Wastewater Treatment Division
KSC-NR-5500
201 S Jackson Street
Seattle, WA 98104-3855

CONTACT: Jacob Sheppard, Environmental Planner
Phone: (206) 477-5395
Email: jacob.sheppard@kingcounty.gov

### 4. Date checklist prepared:

January 8, 2021

### 5. Agency requesting checklist:

King County Department of Natural Resources and Parks – Wastewater Treatment Division

### 6. Proposed timing or schedule (including phasing, if applicable):

Construction is anticipated from 2022 through 2027. The County will install the new sewer pipe first, and decommission the existing pipe once the new pipe is in service. The County will complete the restoration and enhancement of Coal Creek at the end of the project. Some wetlands mitigation may occur early in the project.

### 7. Do you have any plans for future additions, expansions, or further activity related to or connected with this proposal? If yes, explain.

There are no other future additions, expansions, or further activity related to or connected with the proposed project at this time. The County will continue to regularly monitor both the decommissioned existing pipe and the new pipe after

construction. If future monitoring indicates that the decommissioned pipe or the new pipe may pose a risk to the environment or human health and safety, the County will coordinate with the appropriate agencies at that time to address the risk.

**8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.**

The following reports have been prepared:

- Coal Creek Trunk Upgrade Phase 1 Project – Critical Areas, prepared by CH2M Hill on behalf of King County WTD (April 2017)
- Coal Creek Trunk Upgrade Phase 1 Project – Environmental Conditions Desktop Study, prepared by CH2M Hill Engineers, Inc. (CH2M) on behalf of King County WTD (April 2017)
- Coal Creek Trunk Upgrade Phase 1 Project – Hazardous Materials Corridor Assessment Desktop Study, prepared by CH2M on behalf of King County WTD (April 2017)
- Coal Creek Trunk Upgrade Phase 1 Project – Geotechnical Desktop Study, prepared by Shannon & Wilson on behalf of King County WTD (2017)
- Draft Geotechnical Data Report, prepared by Shannon & Wilson on behalf of King County WTD (October 2018)
- Draft Geotechnical Design Memorandum, prepared by Shannon & Wilson on behalf of King County WTD (April 2019)
- Mitigation Opportunities Report – Coal Creek Trunk Upgrade Phase 2, prepared by CH2M on behalf of King County WTD (July 2019)
- Cultural Resources Assessment, prepared by Environmental Science Associates on behalf of King County WTD (December 2019)
- Biological Evaluation, prepared by CH2M on behalf of King County WTD (May 2020)
- Arborist Report, prepared by CH2M on behalf of King County WTD (December 2020)
- Critical Areas Report, prepared by CH2M on behalf of King County WTD (December 2020)

The following reports are currently being prepared:

- Acoustic Assessment Memorandum
- Drainage Report
- Hydraulic Analysis Memorandum

**9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.**

The City of Bellevue (City) also has several projects pending in areas that overlap with this project's work limits, as shown in **Table 1**.[1]

**Table 1: City of Bellevue Overlapping Pending Projects**

| City Permit No. | Project Name | Location | Description |
|---|---|---|---|
| 19 131723 UE<br>19 131695 GD<br>19 131760 BW<br>20 101682 BE<br>19 131755 BH<br>18 120487 LD<br>18 120495 LO<br>19 120818 LS | Basel Newport Townhomes | King County Parcel No. 1624059144<br><br>12855 Coal Creek Pkwy SE<br>Bellevue, WA 98006 | A multifamily project that includes approximately 58 townhouse-style condos with a private road connecting all units and common park areas.<br><br>This property is immediately adjacent to the proposed project work limits at the intersection of 125th Ave SE and Coal Creek Pkwy SE. |
| 20 104262 GB<br>20 104294 BW<br>19 131636 LO | Coal Creek Trail Addition Project | King County Parcel No. 2124059001<br><br>5199 Forest Dr SE<br>Bellevue, WA 98006 | Bellevue Parks is constructing an 840-linear-foot and 4-foot-wide, soft-surfaced recreational trail with a 30-foot-long pedestrian bridge and 80 linear feet of stairs.<br><br>The area of construction is adjacent to project work limits along Forest Drive SE and on the same overall Bellevue Parks parcel as the proposed project actions along the spur trail at the Red Cedar (Upper West Coal Creek) Trailhead. |
| 20 108243 TJ | MCI Metro | King County Parcel No. 9559500080<br><br>4515 125th Ave SE - Unit 204<br>Bellevue, WA | Mastec North America Inc will install 901 linear feet of HPDE conduit, vault, and pull fiber cable in the right-of-way of Coal Creek Parkway SE using directional boring.<br><br>This proposal overlaps with the Woodsong Condominiums property, where the project proposes pipe installation and restoration actions. |

[1] City of Bellevue. 2020. All Permit Data (1988-Present). Via https://bellevue.data.socrata.com/Economic-Growth-and-Competitiveness/All-Permit-Data-1998-Present-/qtxf-p98a, accessed April 29,2020.

**10. List any government approvals or permits that will be needed for your proposal, if known.**

**Table 2** lists the government approvals or permits needed for the project:

**Table 2: Project Approvals/Permits**

| Entity | Permit/Approval |
|---|---|
| **Federal** | |
| U.S. Army Corps of Engineers | Clean Water Act (CWA) Section 404 Permit |
| U.S. Fish and Wildlife and NOAA Fisheries | Endangered Species Act Section 7 Formal Consultation |
| **State** | |
| Department of Archeology and Historic Preservation | National Historic Preservation Act Section 106 review |
| Washington State Department of Ecology | • CWA Section 401 Water Quality Certification<br>• Coastal Zone Management Act Consistency<br>• NPDES Construction Stormwater Permit |
| Washington Department of Fish and Wildlife | Hydraulic Project Approval |
| **Local** | |
| King County | • SEPA Determination<br>• Construction Dewatering Discharge Authorization |
| City of Bellevue | • Conditional Use Permit<br>• Critical Areas Land Use Permit<br>• Clearing and Grading Permit<br>• Building Permit<br>• Shoring Permit<br>• Noise Permit<br>• Right-of-Way Street Permit<br>• Utility Side Sewer Permit<br>• Utility Developer Extension Agreement<br>• Parks Special Use Permit |

**11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.**

King County identified a need to increase the capacity of the north segment of the Coal Creek Trunk sewer pipe in Bellevue, WA, which is currently too small to convey existing or future peak flows. The County identified the need to increase the capacity of this part of the regional wastewater system in its 2015 Regional Needs Assessment.[2] As of 2010, surcharging or overflowing could be expected to occur at a greater than 50 percent probability in any given year. When complete, this project will provide the Coal Creek Trunk with the capacity to convey the projected 20-year peak wastewater flows through the year 2060.

The existing Coal Creek Trunk pipe collects sewage from the City sewer laterals and the Coal Creek Utility District's Olympus Lift Station. Flows are conveyed to the King County Eastside Interceptor (ESI) pipe, which conveys flows to the King County South Treatment Plant in Renton, WA. The County proposes to replace the north segment of the existing Coal Creek Trunk with a new pipe. The new pipe will follow an arc north and west, from the vicinity of the City of Bellevue Parks' Red Cedar (Upper West Coal Creek) Trailhead to the County's ESI sewer pipe near 119th Avenue SE and Coal Creek Parkway SE. It will be installed below ground using trenchless methods where feasible, and open-cut methods where ground conditions or other site constraints are unsuitable. To continue collecting local flows, the County also proposes to provide a combination of new local connections and appropriately resized existing connections.

Major project elements are listed below:

- Installing approximately 6,600 cumulative linear feet of new County and City lateral pipe segments using trenchless methods
- Installing approximately 4,000 linear feet of new County and City lateral pipe segments using open-cut methods
- Installing about 32 new maintenance holes (MH) along new County and City lateral pipe segments
- Decommissioning 20 MHs through gravel fill and/or concrete plugs, seven of which the County will also remove the concrete cones above the surface before filling – while most of these MHs are within the project impact area discussed in this checklist, a few will be in areas of the Coal Creek Natural Area that are otherwise not affected by project activities
- Removing 365 linear feet of existing County and City lateral pipe segments below and adjacent to Coal Creek
- Creating and enhancing wetlands and wetland buffers for mitigation
- Restoring and enhancing streams

[2] King County. 2015. Regional Needs Assessment, Conveyance System Improvement Program. King County Department of Natural Resources and Parks, Wastewater Treatment Division. May.

- Constructing temporary and permanent parking areas
- Converting a portion of a trail to an ADA-compliant trail connection and maintenance vehicle gravel road
- Installing a retaining wall along the converted trail in a steep slope area

The majority of the new pipe – approximately 5,300 linear feet – will be installed using the Direct Pipe® trenchless method, which relies on a small tunnel-boring machine that creates a precisely guided borehole along the pipe alignment. The Direct Pipe alignment is shown on **Figure 1** as a smoothly arcing blue line. Most of the Direct Pipe segment will be deep underground, and pipe installation activities will not be detectable at the surface. However, activities to support Direct Pipe installation will have temporary impacts at the entry and exit points. The County will install the Direct Pipe segment starting near the upstream end of the project, in the Spur area. The Direct Pipe segment will end at the eastern boundary of the ESI Connection area. Construction activities in these two areas are described in further detail below.

In addition to the Direct Pipe segment discussed above, project activities will occur in the following seven above-ground areas, the locations of which are described further in Section A.12 below and shown as "Project Locations" in **Figure 1**:

- ESI Connection
- Woodsong Condominiums (Condos)
- 125th Avenue SE
- Microtunnel
- Forest Drive SE
- South Trunk Connector
- Spur

<u>ESI Connection</u>

In this project area, the County will install approximately 1,100 linear feet of new sewer pipe, roughly parallel to Coal Creek Parkway SE, using open-cut methods. The downstream exit point of the Direct Pipe segment will be located at the eastern boundary of the ESI Connection area. The County will install a temporary receiving pit for the Direct Pipe tunnel-boring machine. Shoring for the pit may need to be installed using impact or vibratory pile driving methods. The County will install a new pipe using open-cut methods from the receiving pit to the ESI. The ESI crosses under Coal Creek just east of the upstream end of a culvert that carries Coal Creek under I-405. The existing Coal Creek Trunk connects to the ESI to the south of the stream; the new pipe will connect to the ESI north of the stream and thus avoid the need for a new stream crossing.

The western portion of the new pipe alignment in this area will follow an existing maintenance access road. The eastern portion of the alignment in this project area will run through an undeveloped area. Construction of the eastern portion of pipe in this project area, as well as the trenchless receiving pit, will require installing a temporary access road that will be removed upon project completion. The County will also install a temporary improved area adjacent to the receiving pit and Woodsong Condos in

order to provide construction staging and parking for condo residents during project construction.

Once the new pipe has been installed, the County will generally restore impacted areas to previous conditions, with the exception of approximately four new MHs. Two of these MHs will be located in the existing maintenance access road, one will be located immediately adjacent to the Woodsong Condos parking lot, and one will be installed near an above-ground structure connected to the ESI.

Finally, the County will conduct extensive wetlands improvements in the ESI Connection project area. Consistent with the County Executive's Clean Water, Healthy Habitat initiative, the County recognizes the opportunity the Coal Creek Trunk Upgrade Project presents to enhance habitat at a broader scale – the Coal Creek basin – rather than focusing solely on restoring directly affected areas. Much of this area currently consists of degraded wetlands and wetland buffer, as identified in Section B.3. Throughout this project area, the County will rehabilitate and enhance existing wetlands, and create new wetlands, with the goal of connecting small and degraded habitat reserves into a larger and better-functioning habitat complex.

Condos

In this project area, the County will install approximately 400 linear feet of new sewer pipe to collect and convey local flows to the new Coal Creek Trunk pipe, using open-cut methods. The pipe will run roughly northwest across the Woodsong Condos property. Part of the new pipe will be installed near Coal Creek. Similar to the ESI Connection area described above, this project area also provides additional opportunities for habitat enhancement. Once the new pipe is in service, the County will install softened bank stabilization measures including large woody material (LWM) and fabric-encapsulated soil lifts (FESL) on the stream bank, and rehabilitate and enhance stream habitat adjacent to the condos. The County will also remove a segment of the existing Coal Creek Trunk that crosses under Coal Creek at this location. Other than areas of habitat enhancement, most disturbed surfaces will be restored to pre-project conditions, with the exception of approximately four new MHs in improved (paved or landscaped) locations.

125th Ave SE

In this project area, the County will slipline segments of the existing Trunk pipe, and install new pipe using open-cut methods, to create approximately 700 cumulative linear feet of new sewer line that will convey local flows to the new Coal Creek Trunk pipe. The pipe will generally run within the right-of-way of 125th Avenue SE and connect to the new local line installed at the Condos location. The County will restore disturbed surfaces to pre-project conditions once construction in this area is complete.

Microtunnel

In this project area, parallel to and across Coal Creek Parkway SE just north of its intersection with Forest Drive SE, the County will install new local connections to the new Trunk pipe. These connections will be installed using a combination of

approximately 800 cumulative linear feet of open-cut pipe and approximately 800 linear feet of microtunneling, a trenchless technology. Construction will require some changes to the final grade of the unimproved right of way on the west side of Coal Creek Parkway SE.

Construction equipment, supplies, and materials may also be staged near the Microtunnel work area, on an unimproved right-of-way corridor owned by Seattle Public Utilities, during project construction.

Forest Drive SE
In this project area, the County will improve an existing parking area adjacent to Forest Drive SE, in order to accommodate trail users in the Coal Creek Natural Area while the Coal Creek Trunk Upgrade Project is in construction.

South Trunk Connector
In this project area, the County will use open-cut methods to install approximately 700 linear feet of new pipe connecting the new north segment of Coal Creek Trunk with the existing south segment, which runs parallel to Coal Creek Parkway SE on the west side of the road in this area. This new pipe will cross the road and run under the Coal Creek Natural Area trailhead to connect to the new Coal Creek Trunk.

Spur
This project area will be the upstream end of the Direct Pipe trenchless pipe segment. The County will use the existing trailhead parking lot at this location to support the Direct Pipe operation, which will require a launch pit, supporting equipment such as controls and a drilling fluid management plant, and pipe staging areas.

In this project area, the County will also use open-cut methods to install approximately 900 linear feet of new pipe that will convey flows from local lines to the new Coal Creek Trunk. The existing pipes in this area cross under Coal Creek four times; the new pipe will not cross the stream. The new pipe will run on the east side of the stream, under the trailhead parking lot, an existing maintenance access road, and an existing foot trail.

Safe installation and future maintenance of the pipe will require the stabilization of a steep slope along a small segment of the pipe alignment. In this segment, the County will install a retaining wall. To allow for infrequent maintenance access in the future, the County will restore the surface above the new pipe with a gravel road, which will appear as an extension of the existing maintenance road from the trailhead parking lot. This new gravel road will be compliant with Americans with Disabilities Act (ADA) standards, and it will be integrated into the existing foot trail network. The County will install MHs within the existing and new gravel path. At project completion, the County will restore the trailhead parking lot to conditions substantially similar to existing conditions.

Finally, the Spur project area provides another substantive opportunity for habitat

enhancement at a basin scale, consistent with the Clean Water, Healthy Habitat initiative. Pipe installation in this area will require temporary habitat impacts, but once pipe installation is complete, the County will use the site restoration process as a chance to create new stream habitat and physically remove segments of the no longer active existing pipe. A short segment of the new pipe will require protection from future shifts in the stream channel to prevent damage to both the pipe and the ecosystem. To provide this protection, the County will use soft bank stabilization measures, including large woody materials and fabric-encapsulated soil lifts, measures which will support natural ecosystem processes as much as possible. The County will also remove existing sewer pipes in the area, including two stream crossings; create a side channel for the stream; and install numerous pieces of large woody material, to provide additional habitat complexity for fish and other aquatic life. Further, the County will restore a tributary to Coal Creek in this project area to allow for upstream fish passage.

The County will restore and enhance all natural areas affected by construction by planting site-appropriate native vegetation, removing non-native invasive plants, and maintaining planted areas for up to 10 years after project completion to support successful plant establishment.

**12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.**

The project is located in the southwestern portion of Bellevue, in the neighborhoods of Newport and Somerset. The upstream (southern) end of the project is approximately 900 feet southeast of the Red Cedar (Upper West Coal Creek) Trailhead in the Coal Creek Natural Area, on the east side of Coal Creek Parkway SE. The project generally follows Coal Creek Parkway SE until reaching the downstream (northern) end at the King County Dirt Trail trailhead. See **Figure 1** for a site map of the project area.

The project is located within the Coal Creek Basin (6th Field Hydrologic Unit Code 17110012) and within the Coal Creek Basin of Water Resource Inventory Area (WRIA) 8, the Cedar/Sammamish Watershed. The project is in Sections 16, 21, and 22 in Township 24 North, Range 5 East, Willamette Meridian.

By using trenchless installation methods, the project will minimize the amount of above-ground construction disturbance. The location of the trenchless Direct Pipe segment, which accounts for the majority of the new pipe to be installed, is shown as a smoothly arcing blue line on **Figure 1.** Above-ground work, including mitigation actions, will occur in seven separate project locations, contained mostly within the

Coal Creek Natural Area and existing roadways. The seven project locations, which are described further in Section A.12 above and shown in **Figure 1**, are listed below from north to south:

- ESI Connection
- Woodsong Condominiums (Condos)
- 125th Avenue SE
- Microtunnel
- Forest Drive SE
- South Trunk Connector
- Spur

## B. ENVIRONMENTAL ELEMENTS

### 1. Earth

#### a. General description of the site

(circle one): Flat, rolling, hilly, steep slopes, mountainous,
other: *moderate to high liquefaction risk*

The project area is generally hilly, and contains areas of steep slopes and areas with moderate to high liquefaction risk.

- ESI Connection: There is a moderate to high liquefaction risk largely throughout and steep slopes along roadway embankment. Also, there is a portion of mapped steep slope along the entrance from Coal Creek that is not considered to be a hazard based on field assessment of the fill material located there.
- Condos: moderate to high liquefaction risk
- 125th Avenue SE: moderate to high liquefaction risk
- Microtunnel: within City top-of-slope steep slope buffer and slightly within mapped steep slopes
- Forest Drive SE: none
- South Trunk Connector: The area is within a City top-of-slope steep slope buffer and slightly within mapped steep slopes. Coal Creek Parkway SE is also mapped as a steep slope along the roadway, but is not considered to be a hazard based on field assessment of the fill material.
- Spur: largely outside geologic hazard areas, except for the southernmost end where the work limits extend partially into the bottom of mapped steep slope areas

#### b. What is the steepest slope on the site? (approximate percent slope)?

Slopes greater than 40 percent are present.

**c. What general types of soils are found on the site? (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.**

Surficial soils have been mapped and classified by the Natural Resources Conservation Service (NRCS).[3] Soils in the study area are dominated by Alderwood and Kitsap soils, very steep, followed by Norma sandy loam and Alderwood gravelly sandy loam soils. Alderwood and Kitsap soils, very steep, are mapped over the majority of the study area within the undeveloped Coal Creek Natural Area. These soils are described by the NRCS as moderately well drained with parent material composed of basal till with some volcanic ash.

NRCS classifies several small areas of existing residential development or park area as prime farmland. These include the area of Norma sandy loam (prime farmland if drained); Alderwood gravelly sandy loam, 8 to 15 percent slopes (prime farmland if irrigated); and Alderwood gravelly sandy loam, 15 to 30 percent slopes (farmland of statewide importance). Norma sandy loam is classified as hydric and covers the area occupied by one of Bellevue's sediment ponds and existing mitigation site. The project includes some excavation, but all temporarily disturbed areas will be decompacted as needed and replanted. The area is also unlikely to be converted for agriculture, as it is designated as a protected natural area.

**d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.**

Unstable soils are known and expected to occur throughout the study area. The study area overlaps with mapped landslide hazard, erosion hazard, and liquefaction hazard areas. Stream bank erosion has also occurred along Coal Creek in numerous locations and is expected to continue as part of the natural stream channel function but also potentially affected by development (e.g., flashy stream flow due to increased impervious surface runoff).

**e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.**

**Table 3** provides a summary of earthwork volumes and areas proposed in uplands (outside of wetlands and streams). Quantities shown are approximate and subject to change as project design continues.

[3] Natural Resources Conservation Service (NRCS). 2018. Web Soil Survey – Coal Creek Natural Area. U.S. Department of Agriculture.

**Table 3: Upland earthwork summary (approximate quantities)**

| Activity | Type | Cut (cubic yards) | Fill (cubic yards) | Fill source | Impact area (square feet) | Duration |
|---|---|---|---|---|---|---|
| **Construction Access and Staging** | | | | | | |
| ESI Connection | Grading | 210 | 5 | Native backfill | 5,200 | Permanent |
| Microtunnel | Grading | 1,850 | 90 | Native backfill | 18,400 | Permanent |
| Spur | Grading | 283 | 258 | Native backfill, imported clean materials for permanent maintenance road surface | 8,556 | Permanent |
| **Total** | | **2,343** | **353** | | **32,156** | |
| **Direct Pipe (DP) earthwork (does not include subsurface tunneling)** | | | | | | |
| DP launch pit (Spur) | Excavation | 1,250 | 1,240 | Native | 2,800 | Temporary |
| DP receive pit (ESI Connection) | Excavation | 850 | 830 | Native | 1,000 | Temporary |
| **Total** | | **2,100** | **2,070** | | **3,800** | |
| **Pipe installation trench** | | | | | | |
| Trunk installation (ESI Connection) | Excavation and fill | 4,420 | 4,420 | Gravel backfill | 6,410 | Temporary |
| City lateral installation (Condos) | Excavation and fill | 380 | 380 | Gravel backfill | 1,020 | Temporary |
| City laterals installation (125th Avenue SE) | Excavation and fill | 210 | 210 | Gravel backfill | 620 | Temporary |
| City laterals installation (Microtunnel) | Excavation and fill | 810 | 810 | Gravel backfill | 2,010 | Temporary |
| Trunk Connector installation (South Trunk Connector) | Excavation and fill | 900 | 900 | Gravel backfill | 2,670 | Temporary |
| Trunk installation (Spur) | Excavation and fill | 1,750 | 1,750 | Gravel backfill | 3,810 | Temporary |
| **Total** | | **8,470** | **8,470** | | **16,540** | |
| **Retaining wall installation - Spur** | | | | | | |
| **Total** | **Grading** | **472** | **404** | **Native backfill** | **840** | **Permanent** |

| Activity | Type | Cut (cubic yards) | Fill (cubic yards) | Fill source | Impact area (square feet) | Duration |
|---|---|---|---|---|---|---|
| **Microtunnel shaft earthwork (does not include subsurface tunneling)** | | | | | | |
| Microtunnel launch shaft | Excavation | 470 | 450 | Native | 700 | Temporary |
| Microtunnel receiving shaft | Excavation | 450 | 380 | Native | 180 | Temporary |
| **Total** | | **920** | **830** | | **880** | |
| **Wetland creation** | | | | | | |
| **Total** | **Grading** | **2,100** | **0** | **Not applicable** | **37,106** | **Permanent** |

**f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.**

Earthwork activity has the potential to cause localized slope failure or stream bank erosion. However, the Project will use approved erosion prevention and control best management practices (BMP) based on geotechnical and stream engineering recommendations to avoid and minimize erosion. Upon project completion, there will be a slight decrease in the likelihood of erosion in the Spur and Condo areas due to stabilization measures installed during the project, with no changes in the likelihood of erosion elsewhere.

**g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?**

About 26 percent of the five temporary discharge areas within the work limits consists of existing impervious surfaces (approximately 200,000 square feet). Proposed actions will increase impervious surfaces site-wide by about two percent (approximately +18,000 square feet) and may remove less than one percent of existing impervious surfaces at Forest Drive SE (approximately -1,150 square feet).

New impervious surfaces may be installed at Forest Drive SE to provide replacement parking while the Red Cedar trailhead is closed; and they will be installed on the proposed gravel road and trail at the Spur, in a small portion of the ESI Connection, and in various locations for the aboveground portions of the new MHs.

**h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:**

Temporary erosion and sedimentation control (TESC) measures will be employed throughout project construction, including prior to all clearing, excavation, filling, grading, and other soil-disturbing activities in the project area. These control measures will be identified in the project plans and construction specifications, and they will be described in detail and updated throughout construction in the County contractor's Stormwater Pollution Prevention Plan (SWPPP). In addition, the project will comply with additional conditions from the City of Bellevue, Ecology, and other permitting agencies.

During design, licensed geotechnical engineers will review and provide direction on project design to reduce or control potential erosion and other impacts to the earth. A hydraulic analysis will also be prepared for each impacted stream to understand and manage the risk for stream bank erosion.

During construction, a Certified Erosion and Sediment Control Lead will be responsible at all times for installing and maintaining BMPs, and a licensed

geotechnical engineer will provide ongoing oversight and recommendations to manage unstable soils.

Typical TESC BMPs that may be used include installing filter fabric fences and other sediment barriers, placing silt traps in storm drain inlets, covering soil stockpiles and exposed soils, and using settling facilities to prevent sediment from leaving the site.

Additional best management practices (BMPs) and other measures could include the following:

- Designation of personnel to inspect and maintain temporary erosion and sediment control measures
- Use of appropriate means such as stabilized entrances and wheel washes to minimize tracking of sediment onto roadways by construction vehicles
- Regular street cleaning for mud and dust control
- Disposing of excess excavated soil at an approved disposal site as soon as practical
- Restoration of disturbed areas by repaving or replanting as soon as practical after construction is completed

**2. Air**

**a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.**

Construction will involve temporary, mobile source air emissions ($NO_x$, VOC, CO, $PM_{10}$, $PM_{2.5}$), including diesel exhaust from construction equipment and dust generated by earth-moving activities. The exhaust emissions will be intermittent and spread across the project area. They are not expected to affect attainment of air quality standards in the project area.

Construction may also generate dust during demolition, excavation, and materials hauling.

Once completed, occasional faint odors may be detectable in the immediate vicinity of some maintenance hole locations along the new pipe.

See **Appendix A** for King County's greenhouse gas emissions worksheet.

**b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.**

There are no off-site sources of emissions or odors that will affect the project during construction or operation.

**c. Proposed measures to reduce or control emissions or other impacts to air, if any:**

During construction, BMPs will be implemented to minimize dust and other air quality impacts, including:

- Wetting exposed soils
- Providing wheel wash stations
- Covering loads
- Maintaining machinery in good mechanical condition to minimize exhaust emissions
- Requiring contractors to reduce idling time of equipment and vehicles, and encouraging the use of use newer construction equipment or equipment with add-on emission controls

## 3. Water

### a. Surface Water:

**1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, or wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

See **Figure 2** for an overview of surface water bodies (streams and wetlands) in the project area. Six streams have been identified in or close to the study area. These streams include Coal Creek, four tributaries to Coal Creek (Tributary 0268, Tributary 0272, Tributary 1, and Tributary 2), and one non-tributary stream (Stream 1). Coal Creek and its tributaries eventually flow into Lake Washington, while Stream 1 infiltrates before reaching Coal Creek. Coal Creek and its tributaries are all Type F (containing salmonids such as salmon, trout, and similar species, or habitat suitable for salmonids). Only Coal Creek and Tributary 1 will be directly affected by the project. The other streams will have buffer impacts but no direct stream impacts. The Project will also avoid disturbing piped stream segments, including the culverts for Tributary 0272 and Tributary 2 at the Spur project area.

Twelve wetlands are located either in or adjacent to the study area, referred to in project documentation as Wetlands 2, A, A1, B, D/E, F, G, H, I, J, Potential Wetland L/Anna's Pond, and Potential Wetland M. Of these, Wetlands A, D/E, H, I, and J will be impacted directly. Their buffers, along with the buffers for Wetlands A1, B, and G, will also be impacted. No other wetland or associated buffer will be impacted.

**2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.**

The project will require work in the following water bodies:

- Coal Creek
- Tributary 1
- Wetland A
- Wetland D/E
- Wetland H
- Wetland I
- Wetland J

Temporary earthwork will be needed for construction access and staging, open-cut pipe installation at Wetland A, D/E, and J, as well as Coal Creek crossing pipe removals.

Permanent earthwork will be needed for the Tributary 1 relocation and Coal Creek restoration at the Condos and at the Spur. Stream restoration at the Spur will also impact Wetlands H and I. Wetland J will also be impacted by permanent grading for the ADA-compliant trail access and maintenance gravel road.

**Table 4** provides a summary of activities and impacts in wetlands and streams.

**Table 4: Earthwork summary in wetlands and streams (approximate quantities)**

| Activity | Type | Cut (cubic yards) | Fill (cubic yards) | Fill source | Impact area (square feet) | Duration |
|---|---|---|---|---|---|---|
| **Construction access, staging, and pipe trenching** | | | | | | |
| ESI Connection | Excavation, fill, and grading | 1,967 | 1,940 | Hog fuel with reinforced metal plates where feasible, quarry spalls or similar if needed | 19,688 | Temporary |
| Spur | Grading | 7 | 5 | Hog fuel with reinforced metal plates where feasible, quarry spalls or similar if needed | 1,742 | Temporary |
| **Total** | | **1,974** | **1,945** | | **21,430** | |
| **Pipe installation** | | | | | | |
| ESI Connection – aboveground structures | Grading, pipe installation | 0 | 15 | Imported clean materials for access pad | 261 | Permanent |
| Spur – aboveground structures | Pipe installation | 2 | 2 | Pre-cast concrete for new maintenance hole | 28 | Permanent |
| **Total** | | **2** | **17** | | **289** | |
| **Restoration and mitigation of wetlands (beneficial impacts)** | | | | | | |
| ESI Connection wetlands – permanent improvements | Excavation, fill, and grading | N/A* | N/A* | Mostly native fill, some clean imported materials | 95,834 | Permanent |
| ESI Connection wetlands – temporary installation impacts | Excavation, fill, and grading | N/A* | N/A* | Hog fuel with reinforced metal plates where feasible, quarry spalls or similar if needed | 95,834 | Temporary |
| Spur wetlands – permanent improvements | Excavation, fill, and grading | 23 | 13 | Mostly native fill, some clean imported materials | 1,410 | Permanent |
| Spur wetlands – temporary installation impacts | Excavation, fill, and grading | 230 | 580 | Hog fuel with reinforced metal plates where feasible, quarry spalls or similar if needed | 6,527 | Temporary |
| **Total** | | **N/A*** | **N/A*** | | **Permanent: 97,244 Temporary: 102,361** | |

| Activity | Type | Cut (cubic yards) | Fill (cubic yards) | Fill source | Impact area (square feet) | Duration |
|---|---|---|---|---|---|---|
| **Restoration and Mitigation of Streams (beneficial impacts)** | | | | | | |
| Coal Creek (Condos) – permanent improvements | Excavation, fill, and grading | 40 | <1 | • Streambed mix: clean, naturally occurring, water-rounded aggregates<br>• LWM structures: clean, coniferous wood, toe-key rock<br>• FESL structures: clean imported fill, biodegradable fabric, LWM as described above | 1,010 | Permanent |
| Coal Creek (Condos) – temporary installation impacts | Excavation, fill, and grading | 33 | 11 | Aggregate material from established quarries | 3,525 | Temporary |
| Coal Creek (Spur) – permanent improvements | Excavation, fill, and grading | 96 | 18 | • Streambed mix: clean, imported, naturally occurring, water-rounded aggregates<br>• LWM structures: clean, coniferous wood, toe-key rock<br>• FESL structures: clean imported fill, biodegradable fabric, LWM as described above | 5,326 | Permanent |
| Coal Creek (Spur) – temporary installation impacts | Excavation, fill, and grading | 17 | 10 | Aggregate material from established quarries | 2,285 | Temporary |
| Tributary 1 (@ Spur) – permanent improvements | Excavation, fill, and grading | 10 | 50 | Clean imported fill, naturally occurring water-rounded aggregates | 750 | Permanent |
| **Total** | | **Permanent: 146<br>Temporary: 50** | **Permanent: 68<br>Temporary: 22** | | **Permanent: 7,086<br>Temporary: 5,810** | |

*Excavation and fill quantities for beneficial wetlands improvements in the ESI Connection area have not been precisely calculated and are subject to change in the field to optimize wetland functions.

The project will also require work in City of Bellevue-designated wetland and stream buffers. Impact areas in buffers are shown in **Table 5**.

**Table 5. Project impacts in wetland and stream buffers**

| Buffer Group | Impact Area (square feet) |
|---|---|
| Sewer Construction – Permanent Impacts | |
| Wetland Only | 57 |
| Stream Only | 57 |
| Combined Wetland and Stream | 6,596 |
| Construction – Temporary Impacts | |
| Wetland Only | 27,417 |
| Stream Only | 15,720 |
| Combined Wetland and Stream | 52,793 |

**3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.**

See **Table 4** for excavation and fill quantities, areas affected, and the source of fill materials.

**4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.**

Temporary surface water diversions will be needed for proposed in-stream work at three locations: Coal Creek at the Condos, Coal Creek at the Spur, and Tributary 1 at the Spur.

During the proposed pipe installation, the affected reach of Tributary 1 will be temporarily isolated to allow for the extension of the Tributary 1 culvert under the trail. Through-flow will then continue unimpeded during construction. After pipe installation is completed, a new channel will be dug in upland about 10 feet north of the existing channel. When the new channel is ready, Tributary 1 flow will be diverted into the new channel, and the old channel will be filled.

For the pipe removal and stream restoration activities in Coal Creek at both the Condos and the Spur, the areas will be temporarily isolated prior to the start of in-water work. The contractor will build a diversion structure upstream that outlets downstream of the proposed work to allow

for through-flow that meets fish passage requirements while work occurs in the dry.

Temporary surface water diversions in Coal Creek will occur during the summer dry season. Modeled median flow rates during July and August are 0.5 cubic feet per second in Coal Creek at the Spur area, and 0.7 cubic feet per second in Coal Creek at the Condos area.

**5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

The project will occur partially within the 100-year floodplain for Coal Creek, at the ESI Connection, Condos, and Spur project areas. See **Figure 1** for the locations of each of these areas.

**6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

The project will not involve discharge of waste material to surface waters.

**b. Ground Water:**

**1) Will ground water be withdrawn, from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses, and approximate quantities withdrawn from the well. Will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.**

Groundwater is at or near the surface in many locations throughout the study area. This may include on the slopes, based on the occurrence of hillside seeps observed throughout the Coal Creek Natural Area. These seeps often occur where Kitsap silt loam soils are at the ground surface.

During construction, temporary dewatering wells will be needed in the trenches during open-cut pipe installation, at the direct pipe launching and receiving pits and at the microtunnel shafts. Dewatering rates will vary widely depending on location along the project alignment, season, and the specific construction methods chosen by the contractor. In areas of the project that require deep excavation for an extended period of time, the contractor will likely install dewatering systems that withdraw groundwater at rates between 20 and 100 gallons per minute. Over the entire duration of the project, an estimated 70 million gallons of groundwater may be withdrawn.

Groundwater from dewatering wells may be infiltrated in nearby upland areas. If infiltration is not feasible, the groundwater may be discharged to stormwater systems, sewer systems, or directly to sensitive aquatic areas (wetlands or streams) after treatment (e.g., sedimentation tanks or similar) in accordance with water quality regulations, permit conditions, and best practices.

The project does not involve any other wells for drinking water or other water supply or discharge of waste material to groundwater.

**2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

The project does not include discharge of waste material to groundwater.

**c. Water Runoff (including storm water):**

**1) Describe source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

During construction, temporarily cleared and temporarily filled areas may increase rates of runoff in the immediate area during storm events, including potential runoff into nearby streams and wetlands. Construction stormwater will be managed according to all applicable environmental permit conditions, using storm water BMPs such as those described below in Section B.3.d, to avoid and minimize discharge of pollutants to surface waters. As much as is feasible, stormwater and groundwater from dewatering operations will be discharged into the Coal Creek basin rather than into the sanitary sewer system.

When the project is completed, stormwater run-off quantities and patterns will largely be similar to existing conditions, with the exception of small areas with new impervious surface at Forest Drive SE, and along the proposed gravel road and trail in the Spur area. The improved parking area at Forest Drive SE may require water quality treatment through a modular wetland system before runoff can enter the local stormwater conveyance system.

**2) Could waste materials enter ground or surface waters? If so, generally describe.**

Construction could result in stormwater escaping the construction perimeter and entering Coal Creek and other associated tributaries and wetlands. It could include sediment and small amounts of equipment-related materials such as motor oil and hydraulic fuel.

After construction, if the sewer trunk in the ESI Connection or Spur areas ruptured unexpectedly in an emergency, the contents of the pipe system could enter Coal Creek. This risk will be substantially reduced from existing conditions, in which the existing pipe is adjacent to or directly under Coal Creek for almost its entire length.

To minimize these risks, King County WTD will adhere to construction BMPs. Additional care will be taken during construction monitoring efforts during and after storm events greater than the two-year event. During and after construction, King County will also continue to conduct regular monitoring of its infrastructure in this area.

**3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.**

The project may affect surface water drainage through the addition of approximately 18,000 square feet of new impervious surfaces (approximate 2 percent increase from existing). Existing stormwater flow patterns will remain similar, and runoff will be directly to existing drainage infrastructure.

Stream flow patterns in Coal Creek at both the Condos and the Spur will be similar, with minor variation anticipated due to the installation of new large woody material structures. A short segment (approximately 26 linear feet) of Tributary 1 will also be realigned at its confluence with Coal Creek at the Spur. This will improve drainage conditions by allowing greater connectivity between the upstream portion of Tributary 1 and downstream connectivity with Coal Creek.

**d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:**

The project will implement BMPs in compliance with the TESC plan and the SWPPP to avoid and minimize impacts to runoff and surface waters during construction. Temporary impacts to existing vegetation, wetlands, and streams will be restored after construction to existing or better conditions. Restoration will include decompaction and soil amendments to help restore infiltration potential where appropriate.

## 4. Plants

### a. Check or circle types of vegetation found on the site:

Deciduous trees: alder, maple, aspen, other
Evergreen trees: fir, cedar, pine, other
Shrubs
Grass
Pasture
Crop or grain
Orchards, vineyards, or other permanent crops
Wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
Water plants: water lily, eelgrass, milfoil, other
Other types of vegetation

### b. What kind and amount of vegetation will be removed or altered?

Vegetation to be removed by the project will consist of a mixture of grasses, shrubs, and trees. Some of the areas are disturbed and largely composed of King County listed Non-regulated Class B and C noxious weeds, such as Himalayan blackberry (*Rubus armeniacus*) and English ivy (*Hedera helix*). All temporarily impacted areas will be restored to existing conditions or better with a native plant palette. Wetland mitigation will also include enhancement of native vegetation.

### c. List threatened or endangered species known to be on or near the site.

There are no threatened or endangered plant species known to be on or near the site.

### d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

The vegetation management plan will include the following for trees removed as part of proposed actions:

- Tree protection plans to avoid and minimize impacts as much as possible
- More than one tree will be planted for each tree that must be removed
- Conifers will be replaced with conifers
- Deciduous trees will be replaced with a mixture of conifers and deciduous trees to promote increased canopy cover and recruitment by conifers

The County also proposes to include wetland creation, wetland enhancement, and buffer enhancement at the ESI Connection. All other temporarily impacted areas will also be cleared of invasive species, decompacted as needed, and revegetated with native plantings to existing conditions or better.

**e. List all noxious weeds and invasive species known to be on or near the site.**
English ivy, Himalayan blackberry, and reed canarygrass (*Phalaris arundinacea*) occur within the project area.

**5. Animals**

**a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.**

Wildlife species observed during reconnaissance site visits have included dark-eyed junco (*Junco hyemalis*), American robin (*Turdus migratorius*), spotted towhee (*Pipilo maculatus*), American crow (*Corvus brachyrhynchos*), northern flicker (*Colaptes auratus*), American bushtit (*Psaltriparus minimus*), Bewick's wren (*Thryomanes bewickii*), and squirrels.

WDFW Priority Habitats and Species program also documents steelhead trout (*Oncorhynchus mykiss*), Chinook salmon (*O. tshawytscha*), coho salmon (*O. kisutch*), sockeye salmon (*O. nerka*), and coastal resident cutthroat (*O. clarki clarki*) within Coal Creek.[4] Electrofishing surveys have also captured western brook lamprey (*Lampetra richardsoni*), torrent sculpin (*Cottus rhotheus*), and rainbow trout (*O. mykiss,* resident form) in addition to juvenile coho salmon and cutthroat trout.[5]

The Cornell Lab of Ornithology's eBird website manages a database of citizen-generated reports in areas defined as birding "hotspots."[6] There is a birding hotspot near the Project area. It is expected that similar species will use the project area since both the hotspot and the project area are within a connected habitat corridor. In total, 59 bird species have been observed at the hotspot including the following species of local concern: pileated woodpecker (*Dryocopus pileatus*) and red-tailed hawk (*Buteo jamaicensis*).

Other than dogs and humans, no mammals were observed during site visits or documented in other publicly available sources. However, the area is likely used by mammals such as deer, bears, cougars, beavers, squirrels, and other small mammals. No amphibians were observed or have been documented. However, there is potentially suitable habitat for salamanders and frogs in some of the wetlands and low-velocity stream areas.

[4] Washington Department of Fish and Wildlife. n.d. Priority Habitats and Species report. http://wdfw.wa.gov/conservation/phs. Accessed February 2, 2017.
[5] Hart Crowser, 2015. Bellevue Summer Electrofishing 2015. Prepared for City of Bellevue Utilities Department. https://bellevuewa.gov/sites/default/files/media/pdf_document/Final_2015_Bellevue_Electrofishing_Report_2015_20150824.pdf.
[6] Cornell Lab of Ornithology. n.d. Ebird hotspot for Coal Creek Natural Area. "Coal Creek Natural Area Trail." https://ebird.org/hotspot/L6226103. Accessed June 15, 2020.

**b. List any threatened or endangered species known to be on or near the site.**

Puget Sound Chinook and Puget Sound steelhead are federally threatened species previously documented within the project area.

Bull trout (*Salvelinus confluentus*) could access the site, but they are unlikely to be present due to elevated water temperatures overlapping with migration timing.

**c. Is the site part of a migration route? If so, explain.**

Coal Creek is a documented migration route for salmonids. More generally, WDFW identifies the Coal Creek Natural Area as a Biodiversity Corridor that is part of the King County Wildlife Habitat Network. Finally, the project area is within the Pacific Flyway for migratory birds.

**d. Proposed measures to preserve or enhance wildlife, if any:**

The design will reduce the footprint for construction to the greatest extent possible to preserve available habitat. The County will also continue to evaluate ways to reduce the duration of construction as design progresses.

In-stream work will occur only during approved in-water work windows to avoid and minimize harm to salmon and other fish in the waterway. The affected reaches of Coal Creek will be isolated or put in a stream bypass, and fish will be removed from the stream channel by qualified biologists using approved fish removal protocols prior to construction.

The project will also include aquatic habitat improvements, including a side channel at the Spur and the introduction of additional large woody material in Coal Creek at the Condos and at the Spur. Large woody material will enhance in-stream habitat and slow Coal Creek velocities to encourage mixing of the water column and formation of deeper pools. These actions will provide places for fish to rest. Pool formation can also improve stream temperature.

**e. List any invasive animal species known to be on or near the site.**

The following invasive animal species have the potential to occur, based on available habitat and documented occurrence in nearby basins:

- American bullfrog (*Lithobates catesbeianus*)
- New Zealand mudsnail (*Potamopyrgus antipodarum*)
- Invasive crayfish (*Pacifasticus leniusculus*)

**6. Energy and Natural Resources**

**a. What kinds of energy (electric, natural gas, oil, woodstove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.**

The completed project will not have energy needs; wastewater will flow by gravity.

**b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.**

The project will not affect solar use by adjacent projects.

**c. What kind of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:**

The completed project will not have energy impacts; therefore, there are no measures proposed to reduce or control energy impacts.

**7. Environmental Health**

**a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.**

**1) Describe any known or possible contamination at the site from present or past uses.**

There is no documented contamination in the project area.

**2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.**

The project overlaps with the Olympic Pipeline where the pipeline crosses Coal Creek Parkway SE. Construction activities in the vicinity of the pipeline will be subject to additional conditions and constraints. Activities will be coordinated with and observed by representatives of the pipeline owner.

**3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.**

Beyond the fuel and contaminants associated with operating construction equipment, the project will not store, use, or produce toxic or hazardous chemicals.

The completed project will convey untreated wastewater. Exposure to untreated wastewater can be hazardous, but the risk of exposure to members of the public will be negligible. The purpose of the project is to provide additional capacity in the sewer system in the project area, thereby reducing the risk of wastewater overflows compared to existing conditions.

**4) Describe special emergency services that might be required.**

No special emergency services will be required beyond those currently available in the area.

**5) Proposed measures to reduce or control environmental health hazards, if any:**

As described in items B.1.h and B.3.d. above, BMPs and other measures will be used to avoid or contain and control any accidental spills or releases of hazardous materials during project construction. Project plans, construction specifications, and the contractor's health and safety plan will include measures to safely handle and dispose of contaminated materials. No sources of contaminated materials are known to be on the project site. However, if unexpectedly encountered during construction, contaminated materials will be removed from the work area and transported to a permitted disposal site in accordance with applicable regulations.

Once the project is complete, staff at King County's South Treatment Plant will be available at all times to respond immediately to wastewater spills and clean up affected areas according to the County's established spill response procedures.

**b. Noise**

**1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?**

The dominant source of noise in the study area is vehicle traffic on local roadways and primarily Coal Creek Parkway SE and Interstate 405. Existing traffic noise is audible from many locations along the public trails

within the park. Noise is not anticipated to affect construction or operation of the project.

**2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.**

Construction noise would be short-term and include the operation of equipment, including excavation, trenchless pipe installation, removal and installation of sewer MH structures, and/or demolition and replacement of roadway pavement. The City of Bellevue's code allows construction noise from 7 a.m. to 6 p.m. Monday through Friday and 9 a.m. to 6 p.m. on Saturday. No construction noise is permitted on Sundays or legal holidays (City of Bellevue Land Use Code 9.18.020.C).

Nighttime work may be required to reduce overall duration of construction, especially for trenchless work. Any nighttime work would likely require a generator and the use of construction equipment. A City noise permit would be required for extended construction hours.

The completed project will not result in additional noise.

**3) Proposed measures to reduce or control noise impacts, if any:**

Construction will adhere to the City code for permissible noise levels (Chapter 9.18 Noise Control). General construction noise mitigation measures that could be used include the following:

- Use only ambient-sensing broadband backup alarms and minimize backing up
- Limit engine idling to 3 minutes or less
- Use radios for long-range communication; only use raised voices and public address systems in an emergency
- Use upgraded engine exhaust mufflers, engine shrouds, or sound enclosures on noisier equipment
- Use electric and hydraulic equipment instead of diesel or pneumatic equipment
- Require the contractor to develop a noise control plan to identify and mitigate noise impacts based on specific means and methods
- Obtain a noise permit if nighttime work is required

Additional mitigation measures will be developed as part of project-specific documentation. Examples of proposed mitigation measures include equipment maintenance; equipment mufflers; and long, flexible noise barriers that are 12 feet high around the trailhead parking lot at the Spur to reduce noise generated by direct pipe jacking.

## 8. Land and Shoreline Use

**a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.**

Most of the project will occur in the Coal Creek Natural Area, which is used by the public for passive recreation. The City also occasionally uses the gravel maintenance roads at the ESI Connection and at the Spur to remove sediment from the Coal Creek sediment retention ponds. Adjacent properties are comprised of single- and multifamily homes. During construction, the County may temporarily occupy adjacent properties in coordination with property owners. Project construction will also temporarily restrict the use of Coal Creek Natural Area in the Spur area, as described in further detail in Section B.12.b below.

**b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?**

The project site has not been used as working farmlands or working forest lands for many decades.

**1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:**

There are no working farm or forest land operations surrounding the project; therefore, the project will not affect or be affected by such operations.

**c. Describe any structures on the site.**

The existing Coal Creek Trunk and City laterals contain subsurface pipe segments, and above and subsurface MHs. Coal Creek Parkway SE and other public roadways run parallel and cross the work limits. The Condos location includes residential properties and a parking lot, in addition to structures associated with utilities.

Hiking trails (Coal Creek Trail and King County Dirt Trail) surfaced with bark-like material also run throughout the project area. The trails are used for

recreational purposes. There is a parking lot at the Red Cedar (Upper West Coal Creek) Trailhead and a small pull-out along Forest Drive SE for trail parking.

A 39-foot-wide, open-bottom box culvert designed to enhance fish passage conveys Coal Creek underneath Coal Creek Parkway SE. Tributaries 0272, 1, and 2 also have culvert crossings at the Spur below existing trail and/or parking lot access improvements. There are also two sediment ponds at the ESI Connection and at the Spur. One additional offline sediment pond is located at the end of 125th Avenue SE (Anna's Pond).

**d. Will any structures be demolished? If so, what?**

Pipe crossings and associated MHs and segments will be removed at the Condos and at the Spur stream restoration sites. All other MHs and pipes associated with the decommissioned portion of the existing pipe will be plugged below ground and capped if extending above. There will also be several temporary staging areas, construction access roads, and the temporary parking lot by the Condos that will be constructed and subsequently demolished to restore these areas.

**e. What is the current zoning classification of the site?**

The current zoning classification of the Project is the following (City of Bellevue Land Use Code 20.10.180, 20.10.200, and 20.10.220):

- R-1: Single Family Residential Estate District (low density)
- R-2.5: Single Family Residential District (low to moderate densities)
- R-20: Multifamily Residential Districts (moderate density)

**f. What is the current comprehensive plan designation of the site?**

The project is located within the Newport neighborhood area. The Bellevue Comprehensive Plan land use designations in the project area include:

- P/SF-L – Park/Single-Family Low Density
- SF-H – Single-Family High Density
- SF-M – Single-Family Medium Density
- MF-M – Multi-Family Medium Density
- PF/SF-L – Public Facility/Single-Family Low Density
- PF/SF-M – Public Facility/Single-Family Medium Density

The majority of the project area is located within the PF/SF-L designation. Zoning in the study area is primarily single-family residential. There is a small area south of Coal Creek Parkway SE at the intersection with Factoria Boulevard SE that is zoned multifamily.

**g. If applicable, what is the current shoreline master program designation of the site?**

There are no shorelines of the state located within the project area.

**h. Has any part of the site been classified as a critical area by the city or county? If so, specify.**

Yes. The majority of the site is designated as a critical area or a critical area buffer. These areas are summarized by location in **Table 6**.

**Table 6: Critical areas within work areas**

| Type | ESI Connection | Condos | 125th Avenue SE | Microtunnel | Forest Drive SE | South Trunk Connector | Spur |
|---|---|---|---|---|---|---|---|
| **Stream** | Coal Creek | Coal Creek, Tributary 0268 | None | None | None | Coal Creek, Tributaries 2 and 0272 | Coal Creek, Tributaries 1, 2, and 0272 |
| **Stream Buffer** | Buffer | Combined Buffer | Coal Creek Buffer | Stream 1 Buffer | None | Combined Buffer | Combined Buffer |
| **Wetland** | Wetlands A and D/E | None | None | None | None | None | Wetlands H, I, and J |
| **Wetland Buffer** | Combined Buffer | Wetland D/E Buffer | None | None | None | Combined Buffers: Wetlands A1 and B | Combined Buffers: Wetlands A1, B, G, H, I, and J |
| **Habitat** | PHS Biodiversity Corridor, fish-bearing streams, other species of local importance | PHS Biodiversity Corridor, fish-bearing streams, other species of local importance | PHS Biodiversity Corridor, fish-bearing streams, other species of local importance | PHS Biodiversity Corridor, fish-bearing streams, other species of local importance | PHS Biodiversity Corridor, fish-bearing streams, other species of local importance | PHS Biodiversity Corridor, fish-bearing streams, other species of local importance | PHS Biodiversity Corridor, fish-bearing streams, other species of local importance |
| **Geologic Hazard** | Moderate to high liquefaction, steep slopes | Moderate to high liquefaction, steep slopes | Moderate to high liquefaction | Steep Slopes | None | None | Steep Slopes |
| **Geologic Hazard Buffer** | Top of Steep Slope Buffer | Top of Steep Slope Buffer | None | Top of Steep Slope Buffer | None | Top of Steep Slope Buffer | None (at base of slopes) |
| **Frequently Flooded** | 100-Year Floodplain | 100-Year Floodplain | None | None | None | 100-Year Floodplain | 100-Year Floodplain |

**i. Approximately how many people would reside or work in the completed project?**

The project will not have any effect on the number of people residing or working in the vicinity after construction is completed.

**j. Approximately how many people would the completed project displace?**

No people will be displaced because of the completed project.

**k. Proposed measures to avoid or reduce displacement impacts, if any:**

No people will be displaced because of the completed project; therefore, no measures to avoid or reduce displacement impacts are proposed.

**l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:**

The project is undergoing coordination and review with local, state, and federal jurisdictions to obtain all necessary approvals and permits to ensure compatibility with existing and projected land uses and plans.

**m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:**

No agricultural and forest lands of long-term commercial significance will be affected. No measures are proposed.

**9. Housing**

**a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.**

No housing units will be provided upon project completion.

**b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.**

No housing units will be eliminated upon project completion.

**c. Proposed measures to reduce or control housing impacts, if any:**

No housing impacts are anticipated; therefore, no measures to reduce or control housing impacts are proposed.

## 10. Aesthetics

### a. What is the tallest height of any proposed structure(s), not including antennae; what is the principal exterior building material(s) proposed?

The tallest permanent structure will be the 18-foot-tall, concrete retaining wall proposed at the Spur.

### b. What views in the immediate vicinity would be altered or obstructed?

Views will temporarily be altered by construction. Once complete, the following areas will be permanently altered:

ESI Connection: Existing forested vegetation will be replaced with young plantings that will take time to grow.

Condos: Existing forested vegetation will be replaced with young plantings that will take time to grow. Condo residents will also be able to see the proposed fabric encapsulated soil lifts and large woody material structures along the right bank of Coal Creek from their green space.

125th Avenue SE**:** There will be limited vegetation clearing in this area, to be replaced with young, native plantings. The other proposed activities (relining the sewer and restoring roadway) are not likely to alter views.

Microtunnel: The slopes in these areas will be permanently altered by clearing and grading associated with the staging and microtunnel pipe installment activities. The existing vegetation will be replaced with young plantings that will take time to grow.

Forest Drive SE: A new parking lot adjacent to an existing street may alter the view. There may also be new, modular wetlands and other restoration plantings visible.

South Trunk Connector: The activities at this location are largely contained to existing impervious surfaces. Therefore, views are unlikely to be substantially impacted in the final condition.

Spur: The views in the Spur area will be altered by the following structures: an 18-foot retaining wall between the steep slopes and the trail, conversion of the existing gravel and mulch trail to a permanent ADA-compliant and maintenance vehicle gravel access road, and replacement of the Tributary 1 culvert with a new wood bridge about 10 feet north of the existing crossing. New large woody material structures will also be visible in Coal Creek from the trail. Temporarily cleared vegetation will be restored with young plantings that will take time to grow.

**c. Proposed measures to reduce or control aesthetic impacts, if any:**

Most of the visual changes to the affected environment will be consistent with the natural character of the project area. The new retaining wall at the Spur will be textured and colored to fit with the natural area. The County will continue to coordinate with agencies with jurisdiction, interested organizations, and affected residents to identify potential concerns.

## 11. Light and Glare

**a. What type of light or glare will the proposal produce? What time of day would it mainly occur?**

During construction, daytime welding and night work may either require light or produce glare.

**b. Could light and glare from the finished project be a safety hazard or interfere with views?**

No aboveground structures are anticipated to produce light or glare. Therefore, the finished project will not pose a safety hazard or interfere with views.

**c. What existing off-site sources of light or glare may affect your proposal?**

No existing off-site sources of light or glare will affect the project.

**d. Proposed measures to reduce or control light and glare impacts, if any:**

During construction, lights or glare produced from welding and construction equipment will be shielded, as needed. Any temporary lights at night will be shielded and focused towards the construction area of interest.

## 12. Recreation

**a. What designated and informal recreational opportunities are in the immediate vicinity?**

Hiking is a designated activity in the project area. The King County Dirt Trail runs from the King County Dirt Trailhead to Coal Creek Parkway Southeast. The Coal Creek Trail starts at the Red Cedar (Upper West Coal Creek) Trailhead and continues to Lakemont Boulevard SE. Both trails have branches leading to publicly accessible trailheads.

**b. Would the proposed project displace any existing recreational uses? If so, describe.**

Construction at the Spur will be locally disruptive to recreational uses for an extended period of time, perhaps more than two years. During construction, Natural Area users will be detoured around the work area via existing trails, including a recently-expanded trail network accessible from Forest Drive SE. The existing trailhead on Forest Drive SE will be expanded to allow recreational users arriving by car to continue accessing the trail network in the vicinity of the Red Cedar Trailhead during construction. The Red Cedar Trailhead and local trail network will be fully restored at project completion, with the addition of an extended ADA-compliant trail segment.

**c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:**

King County WTD will provide signage and reduce duration of trail closures to the greatest extent practical. The completed project will include an extended ADA-compliant trail segment from the Red Cedar Trailhead upstream along Coal Creek.

**13. Historic and Cultural Preservation**

**a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe.**

No buildings, structures, or sites over 45 years old listed in or eligible for listing in national, state, or local preservation registers are located on or near the site.

**b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.**

One ethnographic place, an Indian trail, has been documented near the project area. The project will not impact this trail. The Coal Creek Natural Area was historically used for coal mining, and two historic coal mines are located approximately 0.5 and 1 mile from the project area. The project will not impact either coal mine.

The project area has been surveyed for cultural resources numerous times, and no archaeological sites or register-listed historic properties have been recorded in the project area. Environmental Science Associates conducted an assessment

and archaeological survey specifically addressing the project's area of potential effects in 2019.

**c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.**

The project was screened by the King County Historic Preservation Program (KC HPP) for the presence of cultural resources within the project area. These screenings included a review of historic registers, databases including the Washington Department of Archaeology and Historic Preservation's (DAHP) records database (WISAARD), historic maps and reports, and predictive GIS modeling.

Environmental Science Associates reviewed literature and conducted pedestrian and subsurface surveys within the project's area of potential effects. During the permitting process, the County will participate in consultation with affected Tribes and other interested parties to identify and address additional concerns related to cultural resources.

**d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.**

The County will implement an inadvertent discovery plan (IDP) for project construction. The IDP will provide guidance to contractors for identifying potential cultural resources, and establish procedures to follow in the event of the unanticipated discovery of potential cultural resources in order to protect the discovery until it can be assessed by a professional archaeologist. Some construction activities, such as open trenching in areas identified as having a high probability of intact cultural resources, may be observed by trained archaeological monitors. Potential discoveries will be addressed according to the project's IDP. The County may also incorporate additional measures developed during consultation with affected parties.

## 14. Transportation

**a. Identify public streets and highways serving the site or affected geographic area, and describe proposed access to the existing street system. Show on site plans, if any.**

Coal Creek Parkway SE is a major corridor route that runs along and bisects Coal Creek Natural Area. The King County Dirt Trailhead is reached by 199th Avenue SE. The Upper West (Red Cedar) Trailhead is reached by Coal Creek

Parkway SE. Construction access will be from several points along Coal Creek Parkway SE.

**b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?**

There is a bus stop at the King County Dirt Trail Head that serves King County Metro Buses 114 and 240. There is no bus stop at the Upper West (Red Cedar) Trailhead.

**c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?**

The completed parking lot at Forest Drive SE, if retained as a permanent improvement, will provide 18 new parking spots. No parking spaces will be permanently eliminated. During project construction there will be temporary impacts to parking capacity at the Condos and at the Red Cedar Trailhead.

**d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).**

Existing roads, sidewalks, and other transportation facilities within the work limits will be restored to existing conditions or better at project completion. The project will not require any other new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities.

**e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.**

The project will not use or occur in the immediate vicinity of water, rail, or air transportation.

**f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?**

Project construction will require vehicular trips in the form of materials import and export, equipment mobilization and demobilization, and contractor passenger vehicles. Over the entire course of construction, estimated as a five-year period, transport of materials and equipment for the project will require approximately 5,000 round-trip truck trips. Passenger vehicles associated with the project will have negligible impacts compared to current traffic volumes in

the project area. The completed project will not generate any additional vehicular trips.

**g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.**

The project will not interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area because there are no farms or timberlands within the vicinity.

**h. Proposed measures to reduce or control transportation impacts, if any:**

The completed project will not impact transportation.

Construction may affect transportation. A traffic control plan will be completed and approved by the City prior to the start of construction to reduce and control transportation impacts.

**15. Public Services**

**a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.**

The project is not anticipated to result in an increased need for public services.

**b. Proposed measures to reduce or control direct impacts on public services, if any:**

The project is not anticipated to result in an increased need for public services; therefore, no measures to reduce or control direct impacts on public services are proposed.

## 16. Utilities

**a. Circle utilities currently available at the site:**
**electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, storm sewers**

**b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**

The project is a regional sewer project, which will be built and operated by the County's Wastewater Treatment Division. The general construction activities are the subject of this environmental checklist. Construction activities may require temporary electrical service, but no other utilities are required for the completed project.

## C. SIGNATURE

**The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.**

**Signature:** _____
Katherine Fischer, Environmental Programs Managing Supervisor
King County Department of Natural Resources and Parks, Wastewater Treatment Division

**Date Submitted:** **1/8/2021**

**Figure 1. Project work area**

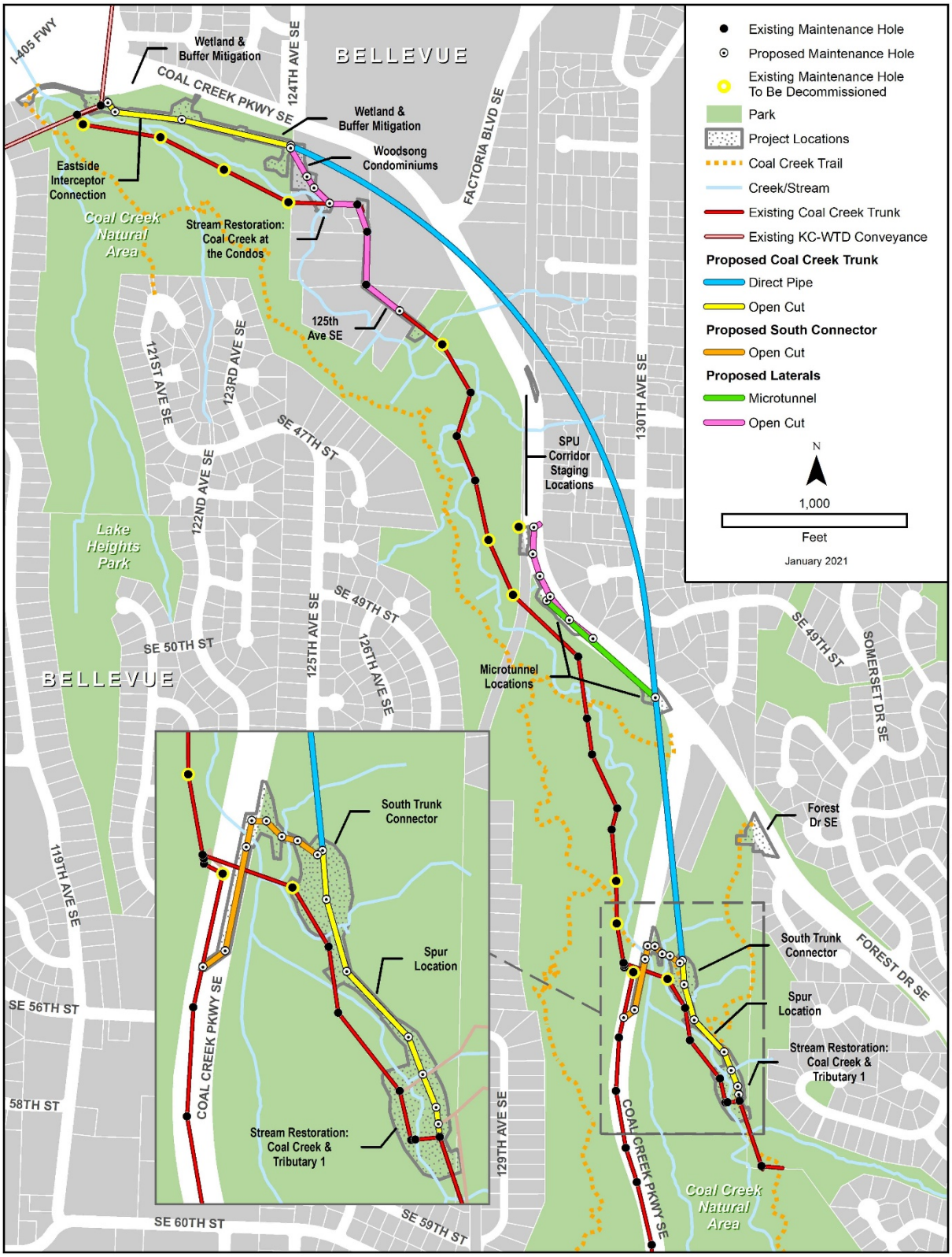
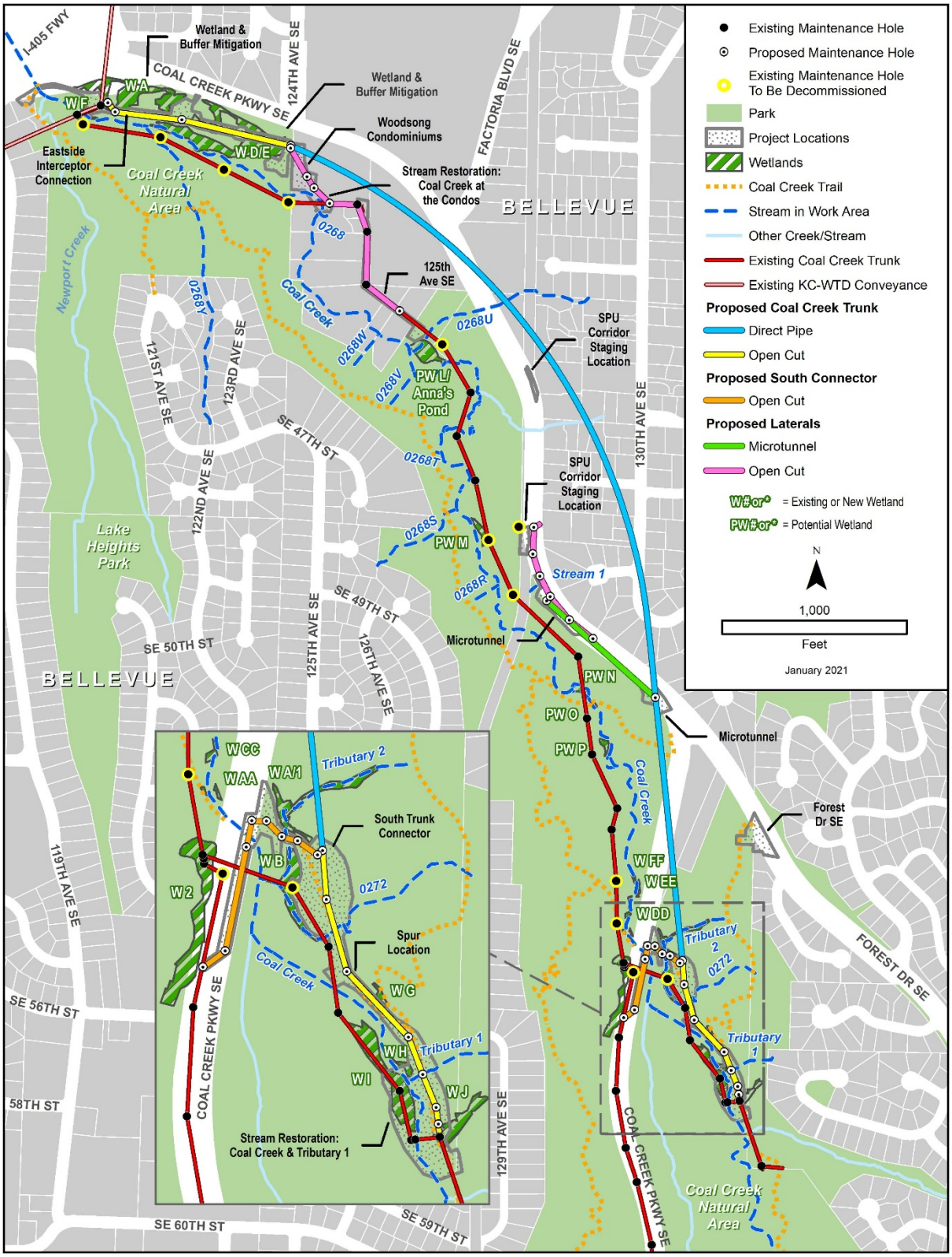


**Figure 2. Wetlands and streams in the project area**



## Appendix A. Greenhouse gas emissions worksheet

**Section I: Buildings**

| Type (Residential) or Principal Activity (Commercial) | # Units | Square Feet (in thousands of square feet) | Emissions Per Unit or Per Thousand Square Feet (MTCO2e) | | | Lifespan Emissions (MTCO2e) |
|---|---|---|---|---|---|---|
| | | | Embodied | Energy | Transportation | |
| Single-Family Home | 0 | | 98 | 672 | 792 | 0 |
| Multi-Family Unit in Large Building | 0 | | 33 | 357 | 766 | 0 |
| Multi-Family Unit in Small Building | 0 | | 54 | 681 | 766 | 0 |
| Mobile Home | 0 | | 41 | 475 | 709 | 0 |
| Education | | 0.0 | 39 | 646 | 361 | 0 |
| Food Sales | | 0.0 | 39 | 1,541 | 282 | 0 |
| Food Service | | 0.0 | 39 | 1,994 | 561 | 0 |
| Health Care Inpatient | | 0.0 | 39 | 1,938 | 582 | 0 |
| Health Care Outpatient | | 0.0 | 39 | 737 | 571 | 0 |
| Lodging | | 0.0 | 39 | 777 | 117 | 0 |
| Retail (Other Than Mall) | | 0.0 | 39 | 577 | 247 | 0 |
| Office | | 0.0 | 39 | 723 | 588 | 0 |
| Public Assembly | | 0.0 | 39 | 733 | 150 | 0 |
| Public Order and Safety | | 0.0 | 39 | 899 | 374 | 0 |
| Religious Worship | | 0.0 | 39 | 339 | 129 | 0 |
| Service | | 0.0 | 39 | 599 | 266 | 0 |
| Warehouse and Storage | | 0.0 | 39 | 352 | 181 | 0 |
| Other | | 0.0 | 39 | 1,278 | 257 | 0 |
| Vacant | | 0.0 | 39 | 162 | 47 | 0 |

**Section II: Pavement**

| | | | | | | |
|---|---|---|---|---|---|---|
| Pavement | | 218.00 | | | | 10900 |

**Total Project Emissions:** 10900