<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Meaning</th>
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<tbody>
<tr>
<td>G-04</td>
<td>Lower Russell Levee Setback Project Phase 1</td>
</tr>
<tr>
<td>811</td>
<td>Call before you dig.</td>
</tr>
</tbody>
</table>

**Abbreviations**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Meaning</th>
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</thead>
<tbody>
<tr>
<td>G-04</td>
<td>Lower Russell Levee Setback Project Phase 1</td>
</tr>
<tr>
<td>811</td>
<td>Call before you dig.</td>
</tr>
</tbody>
</table>

**Notes:**

1. These abbreviations apply to the entire set of sheets.
2. Any of abbreviations for which they are to be used.
3. Abbreviation can be used for uniform traffic control devices.
4. Abbreviation can be used for uniform traffic control devices.
5. Abbreviation can be used for uniform traffic control devices.
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
SURVEY CONTROL MAP
G-06

NOTES:
1. HORIZONTAL DATUM WAS GSTS/93 WASHINGTON STATE PLANE NORTHEAST U.S. FOOT VERTICAL DATUM NAVD88.
2. SURVEY DATA IS BASED ON THE FOLLOWING SOURCES:
   - KING COUNTY
   - CITY OF KENT
3. FLOORPLAN ALIGNMENT CONTROL INFORMATION PROVIDED ON THE RESPECTIVE "C" SHEETS.

Know what's below.
Call before you dig.
SIGN NOTES

1. INSTALL SIGNS IN COMPLIANCE WITH WASH. CODE 26.16.
2. ROUTE/LOCATION FOR SIGNS AND SURFACES SHALL COMPLY WITH WASH. CODE 26.07 A.26.08.
3. COMPLY WITH APPROVED TRAFFIC CONTROL PLAN.
4. S 216TH ST ENTRANCE LIMTED TO 7AM - 4PM MONDAY THROUGH FRIDAY, NO WEEKEND RESTRICTIONS.

<table>
<thead>
<tr>
<th>Item</th>
<th>Number</th>
<th>Size</th>
<th>Color</th>
<th>Quantity</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Item 1</td>
<td>21 x 30</td>
<td>24 x 24&quot;</td>
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<tr>
<td>Item 2</td>
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</tbody>
</table>
Lower Russell Levee Setback Project
Phase 1
Trail Closure Plan

Know what's below.
Call before you dig.

Lower Russell Levee Setback Project
Phase 1
TRAIL CLOSURE PLAN

King County
Department of Natural Resources and Parks
WATER AND LAND RESOURCES DIVISION
RIVER AND FLOODPLAIN MANAGEMENT SECTION
Christie True, Director

Sign Notes

1. Sign shall be installed in conformance with MUTCD Section 2A.16.
2. Reflective material for signs and barricades shall comply with MUTCD Sections 2A.07 & 2A.08.
3. Signs to remain open during non-working hours, close during work as feasible.

<table>
<thead>
<tr>
<th>Sign Number</th>
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<th>Quantity</th>
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<tbody>
<tr>
<td>R1L-2</td>
<td>24&quot;x24&quot;</td>
<td>Red on Flange</td>
<td>6</td>
</tr>
<tr>
<td>AR-6</td>
<td>30&quot;x30&quot;</td>
<td>Black on Orange</td>
<td>2</td>
</tr>
<tr>
<td>SPECIAL</td>
<td>24&quot;x24&quot;</td>
<td>Black on Orange</td>
<td>2</td>
</tr>
<tr>
<td>R1L-2 (WSD)</td>
<td>24&quot;x24&quot;</td>
<td>Black on Flange</td>
<td>4</td>
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<tr>
<td>SPECIAL</td>
<td>36&quot;x36&quot;</td>
<td>Black on Flange</td>
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</table>
MATCHLINE STA
SEE SHEET CC-02
"RUSSELL ROAD
S. 228TH STREET
GREEN RIVER
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
CLEARING 1

NOTES:
1. REFER TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
2. NO CLEARING AND GRUBBING WITHIN AREAS BOUNDED BY PLASTIC CONSTRUCTION FENCE.

# OF TREES REMOVED
(SHA. BURN THRU 8-30)

<12" 8
12" - 24" 26
>24" 1

C Christie True, Director
River and Floodplain Management Section
Department of Natural Resources and Parks

FIELD CHECKED

FOR LEGEND SEE SHEET CC-02

SCALE IN FEET

LEGEND - SITE CLEARING:

TREE TO BE REMOVED
CLUSTER X:
PROJECT LIMIT
CLEAR AND GRUB LIMITS
CLEARING LIMITS
PLASTIC CONSTRUCTION FENCE
SHORELINE JURISDICTION LINE
REED CANARY GRASS
KNOTHEDES (CONTROLLED)
KNOTHEDES (UNCONTROLLED)
KNOTHEDES REMOVAL AREA

MATCHLINE STA
SEE SHEET CC-02
"RUSSELL ROAD
S. 228TH STREET
GREEN RIVER
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
CLEARING 1
LEGEND - SITE CLEARING:

- # OF TREES REMOVED
- MATCHLINE STA
- NOTES:
  1. REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
  2. NO CLEARING AND GRUBBING WITHIN AREAS BOUNDARIES BY PLASTIC CONSTRUCTION FENCE.
LEGEND - SITE CLEARING:

- TREE TO BE REMOVED
- CLUSTER SIZE = n TREES, 0X 0 IN EACH
- PROJECT LIMIT
- CMI
- CLEAR AND GRUB LIMITS
- CM
- CLEARING LIMITS
- PW
- PLASTIC CONSTRUCTION FENCE
- PW
- SHOULDER AGRICULTURE LINE
- PD
- REED CANARY GRASS
- KG
- KNITTED (CONTROLLED)
- KG
- KNITTED (UNCONTROLLED)
- KG
- KNITTED REMOVAL AREA

NOTES:
1. REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
2. NO CLEARING AND GRUBBING WITHIN AREAS BORDERED BY PLASTIC CONSTRUCTION FENCE.
LEGEND - SITE CLEARING:

TREE TO BE REMOVED

CLUSTER PLANT = A TREE expulsion EACH PROJECT UNIT
"""
CUT = CLEAR AND GRUB LIMITS
CUT = CLEANING LIMITS
MAT = PLASTIC CONSTRUCTION FENCE
GROUNDLINE JURISDICTION LINE
REED CANARY GRASS
EIGHTY-TWO INCHES LONG AND RIGHF / (RIGHT)
EIGHTY-TWO INCHES UNCONTROLLED

NOTES:

1. REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
2. NO CLEARING AND GRUBBINING WITHIN AREAS BORDERED BY PLASTIC CONSTRUCTION FENCE.

# OF TREES REMOVED

<table>
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<th>SIZE</th>
<th>COUNT</th>
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<tr>
<td>15'</td>
<td>19</td>
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<tr>
<td>&gt;24'</td>
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SCALE = 1" = 100'
LEGEND - SITE CLEARING:

- **X** TREE TO BE REMOVED
- CLUSTER XXXX = X TREES, XX ON EACH
- PROJECT LIMIT
- 66'-0" CLEAR AND GRUB LIMITS
- 30'-0" CLEARING LIMITS
- 11'-0" PLASTIC CONSTRUCTION FENCE
- 4'-0" SHORELINE JURISDICTION LINE
- RED CANYON GRASS
- UNTHREADED (CONTROLLED)
- UNTHREADED (UNCONTROLLED)
- UNTHREADED REMOVAL AREA

**NOTES:**

1. REMOVE TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING INCH.
2. NO CLEARING AND GRUBBING WITHIN AREAS BORDERS BY PLASTIC CONSTRUCTION FENCE.
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
REMOVALS 1

LEGEND - DEMOLITION / SALVAGE:
- Asphalt Removal
- Concrete Removal
- Gravel Removal
- Water Main Removal
- Shoreline Jurisdiction Line

NOTES:
1. Remove all split rail fence within project limits.
2. Protect all utilities to remain.
3. No construction traffic on portion of roadway to remain upon completion of Phase 2.
4. Remove all utility features within project limits, not otherwise noted as protected or to be salvaged (e.g., sewerage, septic).
5. Tree protection and removals shown on CC sheets.

MATCHLINE STA 8+00 SEE SHEET CR-02

GREEN RIVER

RUSSELL ROAD

S. 228TH STREET

GREEN RIVER

NOTES:
- Remove portion of split rail fence needed to construct paved trail.
- Te-A (See ix of sheets)
- Remove split rail fence as necessary to access area to be graded. See sheets. Protect remaining fence along road.
- Remove above ground irrigation piping. See (ix) of drawings.
- Remove 2" water service lines to be replaced on Project Site CM-01 Sheet.
- Remove above ground irrigation piping. See (ix) of drawings.
- Remove underground telephone line marked by utility.
- Remove concrete extension curb.
- Sawcut asphalt at removal limits.
- Preserve asphalt trail surface.
- Loosen and remove abandoned 6" RCP drain pipe. Excavate trail plus pipe ends and mark with post.
- Remove above ground structured within site limits.

Christie True, Director
River and Floodplain Management Section
Water and Land Resources Division
Department of Natural Resources and Parks

SCAL 1:600

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
REMOVALS 1

SHEET CR-01

1012/04/21

KING COUNTY
Department of Parks, Recreation, and Open Space
River and Floodplain Management Section
Christie True, Director

SHEET CR-01
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
REMOVALS 2

NOTES:
1. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMITS.
2. PROJECT LIMITS TO REMAIN.
3. NO CONSTRUCTION TRAFFIC ON PORTION OF RUSSELL RD. TO REMAIN UPON COMPLETION OF PHASE 2.
4. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMITS NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
5. TYPICAL PROTECTION AND REMOVALS SHOWN ON COMBINED SHEETS.

LEGEND - DEMOLITION / SALVAGE:
[ ] PROJECT LIMIT
[ ] ASPHALT REMOVAL
[ ] CONCRETE REMOVAL
[ ] GRAVEL REMOVAL
[ ] WATER MAIN REMOVAL
[ ] BOUNDARIES
[ ] SHORELINE JURISDICTION LINE

MATCHLINE STA 8+00 SEE SHEET CR-01
MATCHLINE STA 20+00 SEE SHEET CR-03

Christie True, Director
River and Floodplain Management Section
Water and Land Resources Division
Department of Natural Resources and Parks
LEGEND - DEMOLITION / SALVAGE:

- PROJECT UNIT
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- GRAVEL REMOVAL
- WATER MAIN REMOVAL
- SHORELINE JURISDICTION LINE

NOTES:

1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
2. PROTECT ALL UTILITIES TO REMAIN.
3. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMITS, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G., BOLLARDS, SIGNS).
4. TREE PROTECTION AND SALVAGE SHOWN ON CO SHEET.
NOTES:
1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
2. PROTECT ALL UTILITIES TO REMAIN.
3. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMITS, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. UTILITY SHEDS).
4. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.

LEGEND - DEMOLITION / SALVAGE:
- PROJECT UNIT
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- GRAVEL REMOVAL
- WATER MAIN REMOVAL
- SHORELINE JURISDICTION LINE

Christie True, Director
River and Floodplain Management Section
Water and Land Resources Division
Department of Natural Resources and Parks

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
REMOVALS 5
NOTES:
1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
2. FENCE PROTECTION AND REMOVAL SHOWN ON CO - SHEETS.

LEGEND - DEMOLITION / SALVAGE:

PROJECT UNIT
ASPHALT REMOVAL
CONCRETE REMOVAL
GRAVEL REMOVAL
WATER MAIN REMOVAL
SHORELINE EROSION LINE

MATCHLINE STA
SEE SHEET CR-05
CR-06
CR-07

SALVAGE TRASH, GRAVEL, AND REINSTALL AT UTILITY CROSSINGS.
NOTES

1. BEFORE DISCHARGING AND GRAZING BULLER ALL TEMPOARY DEDITION AND SEDIMENT CONTROL TREATMENs.
2. SLEEP RUSSELL ROAD REGULARLY AS DIRECTED BY THE PROJECT REPRESENTATIVE.
3. COMPLY WITH ALL NOISE AND SANDY REQUIREMENTS.
4. FENCE, SEE PAGE ORDINANCE OF FOOT WALL END OF WORK. ALL OTHER DATA TO READER IN PLACE.
NOTES

1. Before excavation and grading remove all temporary erosion and sediment controls (TESC).
2. Sheet Russell Road regularly as directed by the Project Representative.
3. Comply with all notes and BMP requirements.
4. Figure SEE, fence, and sawdust pile at end of work. All other items to remain in place.

LEGEND - TESC:

- PROJECT LIMITS
- SHREDDED WOOD
- WOOL ROLL
- SF
- SHRED FENCE
- STORM DRAIN INLET PROTECTION, STREET
- WETLAND BUFFER
RUSSELL ROAD
MATCHLINE STA 17+00
SEE SHEET CE-03

MATCHLINE STA 30+00
SEE SHEET CE-05

Christie True, Director
River and Floodplain Management Section
Water and Land Resources Division
Department of Natural Resources and Parks

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1

NOTES
1. BEFORE EXCAVATION AND GRADING INITIAL ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
2. SWEEP RUSSELL ROAD REGULARLY AS DIRECTED BY THE PROJECT REPRESENTATIVE.
3. COMPLY WITH ALL SPECIFIC PERMIT REQUIREMENTS.
4. REMOVE SILT FENCE AND comprise OF DRAIN WALL AT END OF WORK. ALL OTHER SITES TO REMAIN IN PLACE.

LEGEND - TESC:

- PROJECT LIMITS
- SWEEPED WOOD MULCH BARRIER
- SILT FENCE
- STORM DRAIN INLET PROTECTION STRUCTURE

WETLAND A
FORMERLY C

WETLAND A BUFFER

WETLAND ABUFFER

WETLAND F
BUFFER
NOTES

1. BEFORE EXCAVATION AND GRADING INSTILL ALL TEMPORARY EROSION AND
   SEDIMENT CONTROL TESC

2. DRIVING ROAD REGULARLY AS DIRECTED BY THE PROJECT
   SUPERVISOR

3. COMPLY WITH ALL VIRES AND DIPPM REQUIREMENTS

4. REMOVE SALT FENCE LANDING OF WOOD HALL AT END OF WORK. ALL
   OTHER ITEMS TO REMAIN IN PLACE

LEGEND - TESC:

- PROJECT LIMITS
- SHREDDED WOOD
- SALT FENCE
- STORM DRAIN INLET
- PROTECTION STRIPS
- WETLAND BUFFER
NOTES:
1. SPREAD AND RECUTTING COMPOST OVER AREAS TO BE PERMANENT SEEDS AND THATCH ONLY.
2. PLANT TURF WAXON OVER SEEDED AREAS AS NEEDED.

PLANTING ZONES:
- WOODCHIP WAXON
- MEADOW SEED MIX - PERMANENT
- MEADOW SEED MIX - TEMPORARY
- TEMPORARY AREAS TO BE RE-COATED WITH PHASE 2 (BY OTHERS NOT IN CONTRACT)

LEGEND:
- WETLAND BOUNDARY
- ELEVATION CONTURS (MAJOR)
- ELEVATION CONTURS (MINOR)
- EXISTING TREE (DECIDUOUS)
- EXISTING TREE (CONIFER)
- SHORELINE JURISDICTION LINE
NOTES:
1. SEEDS AND WOODCHIPS COMBINE THEY ARE TO BE PERMANENTLY SEEDED AND MAINTAINED ONLY
2. PLACE STRAW WICKER OVER SEEDED AREAS AS NEEDED

PLANTING ZONES:
WOODCHIPS/WICKER
WOODCHIPS/WICKER - PERMANENT
WEED/SEED MIX - TEMPORARY

LEGEND:
--- EDGE OF OPEN WATER OR DRAIN
--- WETLAND BOUNDARY
--- EAGLE CONTOURS (MAJOR)
--- EAGLE CONTOURS (MINOR)
--- EXISTING TREE (DEBROTT)
--- EXISTING TREE (SMALL)
--- SHORELINE LEGAL LIMIT

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
LANDSCAPE PLAN 5
SHEET L-06
NOTES:
1. Do not include permanent features.
2. Place straw mulch over seeded areas as needed.

PLANTING ZONES:
- Woodchip mulch
- Meadow seed mix - permanent
- Meadow seed mix - temporary
- Temporary areas to be re-seeded with Phase 2 (by others not in contract)

LEGEND:
- Wetland boundary
- 10' Elevation contours (major)
- 5' Elevation contours (minor)
- Site line
- Existing tree (deciduous)
- Existing tree (conifer)
- Shoreline Jurisdiction line
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4000 PSI AT 28 DAYS, 90 DAYS IF POZZOLAN IS USED, UNLESS OTHERWISE NOTED.

2. CONSTRUCTION JOINTS SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS. WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE PLACED AT LOCATIONS LEAST LIKELY TO IMPAIR THE INTEGRITY OF THE CONCRETE STRUCTURE. THESE ADDITIONAL CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

3. ALL WELDING SHALL BE ELECTRIC WELDING, WORKMANSHIP AND TECHNIQUE, WHERE APPLICABLE, SHALL BE IN ACCORDANCE WITH SP-66, UNLESS OTHERWISE NOTED.

4. CONSTRUCTION JOINTS SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS. WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE PLACED AT LOCATIONS LEAST LIKELY TO IMPAIR THE INTEGRITY OF THE CONCRETE STRUCTURE. THESE ADDITIONAL CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

5. ALL WELDING SHALL BE ELECTRIC WELDING, WORKMANSHIP AND TECHNIQUE, WHERE APPLICABLE, SHALL BE IN ACCORDANCE WITH SP-66, UNLESS OTHERWISE NOTED.

6. ALL BENDS OF REINFORCEMENT AND ALL BAR SPACERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SP-66, UNLESS OTHERWISE NOTED.
call before you dig.
Know what's below.

Call before you dig.

Christie True, Director
River and Floodplain Management Section
Water and Land Resources Division
Department of Natural Resources and Parks

FLOODWALL MONOLITH 1 - 5 PLAN
FULL SCALE 3/16" = 1'

FLOODWALL MONOLITH 1 - 5 ELEVATION
FULL SCALE 3/16" = 1'

CALL 3 WORKING DAYS BEFORE YOU DIG
1-800-464-9665
(Underground utility locations upon request)

King County
Department of Natural Resources and Parks
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
FLOODWALL MONOLITH
PLAN AND ELEVATION
LAYOUT - 1

SHEET S-05
**FLOODWALL MONOLITH 9 - 12 PLAN**

SCALE 3'/16" = 1'

**FLOODWALL MONOLITH 9 - 12 ELEVATION**

SCALE 3'/16" = 1'

---

**Call before you dig.**

King County
Department of Natural Resources and Parks
River and Floodplain Management Section
Christie True, Director

---

**Matchline Sheet S-8 Layout-2**

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**Matchline Sheet S-8 Layout-4**

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**Matchline Sheet S-8 Layout-7**

---

**Matchline Sheet S-8 Layout-4**

---

**Matchline Sheet S-8 Layout-7**

---

**Matchline Sheet S-8 Layout-4**
FLOODWALL MONOLITH 17 - 20 PLAN
FULL SCALE 3/16" = 1'

FLOODWALL MONOLITH 17 - 20 ELEVATION
FULL SCALE 3/16" = 1'
FLOODWALL MONOLITH 25 - 28 PLAN
FULL SCALE 3" = 1' 1""
FLOODWALL MONOLITH 37 - 40 PLAN
FULL SCALE 3/16" = 1'

FLOODWALL MONOLITH 37 - 40 ELEVATION
FULL SCALE 3/16" = 1'

Know what's below. Call before you dig.

Christie True, Director
River and Floodplain Management Section
Water and Land Resources Division
Department of Natural Resources and Parks

S. STRUCTURE
R. ALLEN
J. ENNING
R. CARLSON
FLOODWALL MONOLITH 45 - 48 PLAN
FULL SCALE 3/16 = 1'
Know what's below.
Call before you dig.

FLOODWALL MONOLITH 53 - 55 PLAN

FLOODWALL MONOLITH 53 - 55 ELEVATION
FLOODWALL MONOLITH 59 - 60 PLAN
FULL SCALE 3/16" = 1'-0"

MONOLITH 59

MONOLITH 60

TOP OF FLOODWALL
EL 49.2

1/2" PRECONCRETE EXP. JOINT MAT

TOP OF FOOTING
EL 31.9

BOTTOM OF MONOLITH
EL 29.7

BOTTOM OF FOOTING
EL 27.2

SHEET PILE EL 45.3

FLOODWALL CORNER

FLOODWALL ALIGNMENT
SECT. DT 32-047

FLAT Sheet PILE EL 33.9

ALIGNMENT END FOOTING NOT SHOWN
FOR CLARITY SEE TYPICAL SECTIONS

FLOODWALL MONOLITH 59 - 60 ELEVATION
FULL SCALE 3/16" = 1'

CALL 3 WORKING DAYS
BEFORE YOU DIG
1-800-466-6666
KING COUNTY
Department of Natural Resources and Parks
River and Floodplain Management Section
Christie True, Director
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
FLOODWALL MONOLITH
PLAN AND ELEVATION
LAYOUT - 16

MATCHLINE SHEET 6 & 9 LAYOUTS

MATERIALS & METHODS

CALL 3 WORKING DAYS
BEFORE YOU DIG
1-800-466-6666
KING COUNTY
Department of Natural Resources and Parks
River and Floodplain Management Section
Christie True, Director
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
FLOODWALL MONOLITH
PLAN AND ELEVATION
LAYOUT - 16

MATCHLINE SHEET 6 & 9 LAYOUTS
WET SIDE
DRI Y SIDE

FLOODWALL TYPE 4
FLOODWALL TYPE 5

NOTES:
1. FOR UTILITY Penetration SEE DETAILS SHEET S-27.
   ▲ 1 1/2" THICK MAX - SURFACE TREATMENT FORMS PER TYPICAL SEE FP SHEETS.

CALL 3 WORKING DAYS
BEFORE YOU DIG
1-800-464-6655
Know what's below.
Call before you dig.

King County
Department of Natural Resources and Parks
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
FLOODWALL SECTIONS
REINFORCING - 2

SHEET S-22
THREE-BULB WATERSTOP
FULL SCALE 1" = 1'

WET SIDE

DRY SIDE

EXPANSION JOINT DETAIL 1
FULL SCALE 1" = 1'
PIPE PENETRATION TYPICAL DETAIL PROFILE

PIPE PENETRATION DETAIL 1

FLAT PANEL SECTION SHEET PILE

VINYL - FP-475

RELOCATION NOTES:
1. 2 X 2' WATERLINES NEAR STA. 4+50.
2. 1 X 2' PAPER/ELECTRICAL LINE NEAR STA. 5+60.
3. 1 X 2' WATERLINES NEAR STA. 13+475.
4. 1 X 3' WATERLINES NEAR STA. 21+40.
5. 1 X 1' WATERLINES NEAR STA. 21+60.
6. SEE ONS SERIES SHEETS FOR ADDITIONAL DETAILS.
7. REINFORCEMENT BARS MAY BE CHANGED (3" MAX) FOR PIPE PENETRATION IF NEEDED.

CALL 3 WORKING DAYS BEFORE YOU DIG
1-800-466-4666
(UNAUTHORIZED USE SUBJECT TO FINE)

VINYL SHEET PILE NOTES:
1. CONTRACTOR TO USE FP-475 SHEET AS SHOWN.
2. SECTION MODULUS W=20.6 CU IN/FT.
3. MOMENT OF INERTIA I=45 IN/FT.
4. ALLOWABLE WINDLOAD 5,497 LB/FT/FT.
5. MATERIAL WEATHERED RINO VINYL.

UTILITY PENETRATION DETAILS

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1

SHEET S-27
## DRY SIDE EXPANSION JOINT DETAIL 1

**Call before you dig.**

**IDENTIFICATION TAG**

**REFERENCE BOLT**

### REFERENCE MARKERS

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<th>Elevation</th>
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<td>09-01</td>
<td>21440.46</td>
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</tr>
</tbody>
</table>

### SETTLEMENT REFERENCE MARKERS

<table>
<thead>
<tr>
<th>S.R.M. Number</th>
<th>Floodwall Station (C/U Monolith Joint)</th>
<th>Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>00-01</td>
<td>21440.46</td>
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<td>09-01</td>
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</tbody>
</table>

**NOTES:**

1. The contractor shall take final elevations of all settlement reference markers and shall submit this data to the project representative for review.

2. Floodwall stations are approximate. Locate reference settlement station to those shown.

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**Christie True, Director**

**River and Floodplain Management Section**

**Water and Land Resources Division**

**Department of Natural Resources and Parks**

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**CALL 2 WORKING DAYS BEFORE YOU DIG**

1-800-464-6666

(remember to check location of sewer lateral)

Know what's below.

Call before you dig.

---

**King County**

Department of Natural Resources and Parks

River and Floodplain Management Section

Christie True, Director

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**HDR Engineering Inc.**

---

**LOWER RUSSELL LEVEE SETBACK PROJECT**

**PHASE 1**

**SETTLEMENT REFERENCE MARKERS**

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**S-28**
Know what's below. Call before you dig.

CONSTRUCTION NOTES

1. CLEAR, GROOM AND STABILIZE THE FLOODWALL ALIGNMENT TO ESTABLISH THE REQUIRED PRE-SERVICE GRADE.

2. INSTALL SETTLEMENT PLATES AND PIPE SIZES EVERY 100 FEET ALONG THE LENGTH OF THE FLOODWALL ALIGNMENT WHERE THE SUBSurface LOAD WILL BE PLACED ESTABLISH TOP OF PLATE ELEVATION.

3. PLACE TRANSVERSAL SHAPED SOIL SUBSURFACE LOAD TO ELEVATION 43' ALONG THE FLOOD WALL ALIGNMENT FROM SECTION 1 TO SECTION 15. ESTABLISH ELEVATION OF TOP OF TRANSVERSAL SHAPED SOIL SUBSURFACE LOAD AT APOINT THAT ARE ALREADY AT AN ELEVATION OF 43' TO DETERMINE THE ELEVATION OF THE SUBSurface LOAD.

4. THE SUBSURFACE LOAD WILL BE MONITORED REGULARLY TO DETERMINE WHEN ACCEPTABLE SETTLEMENT (BETWEEN 0.5 IN PER 100 FT) HAS OCCURRED. APPROXIMATELY 30 TO 60 DAYS.

5. ONCE ACCEPTABLE SETTLEMENT HAS BEEN ACHIEVED, THE CONTRACTOR MAY REMOVE THE TEMPERATURE SUBSURFACE LOAD AND RELOCATE THE FOLLOWING EQUIPMENT AND COMPLETE THE ERECTION FOR THE FLOODWALL POSTING CONSTRUCTION.

MONITORING PLATE CONNECTION

1. PLACE FULL THICKNESS OF FLOOR PLATE FOR ALL MEMBERS OF THE FOUNDATION OF THE PROPOSED FLOODWALL.

TYPICAL FLOODWALL PRELOAD SECTION

1/" IN. 2IN. 4 IN.

LIMITS OF CLEARING AND GrADING

LIMITS OF CLEARING AND Grading

PROJECT NO. 4408012

04/02/19

S-29

King County

Department of Natural Resources and Parks

River and Floodplain Management Section

Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT

PHASE 1

PROPOSED FLOODWALL

PRELOAD PLAN

STA 0400 TO STA 25400
Call before you dig.

Christie True, Director
River and Floodplain Management Section
Water and Land Resources Division
Department of Natural Resources and Parks

FLOODWALL PATTERNING WET SIDE MONOLITH 4 ELEVATION

FULL SCALE 3/16 = 1'

FLOODWALL PATTERNING WET SIDE MONOLITH 3 ELEVATION

FULL SCALE 3/16 = 1'

King County
Department of Natural Resources and Parks
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
FLOODWALL PATTERNING
WET SIDE
MONOLITHS 3 AND 4

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-404-6655
(UNDERGROUND HIGH VOLTAGE POWER)
Know what's below.
Call before you dig.
FLOODWALL PATTERNING WET SIDE MONOLITH 6 ELEVATION

FULL SCALE 1/8" = 1'

MONOLITH 6

TOP OF FOOTING

BOTTOM OF FOOTING

BOTTOM OF KEY

FINISHED GRADE

TOP OF FLOODWALL

CALL BEFORE YOU DIG
1-800-466-4664
Know what’s below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
FLOODWALL PATTERNING
WET SIDE
MONOLITHS 5 AND 6
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-466-4555
Know what's below.
Call before you dig.
CALL BEFORE YOU DIG
1-800-441-6555
Know what's below.
Call before you dig.

FLOODWALL PATTERNING WET SIDE MONOLITH 14 ELEVATION
FULL SCALE 1\(\text{\textit{in}}\) = 1'
40'-0''

FLOODWALL PATTERNING WET SIDE MONOLITH 13 ELEVATION
FULL SCALE 1\(\text{\textit{in}}\) = 1'
60'-0''

King County
Department of Natural Resources and Parks
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
FLOODWALL PATTERNING
WET SIDE
MONOLITHS 13 AND 14

JCB KIRK VINCENT
WJ SAMPSON
SAM BOOKER
MONOLITHS 13 AND 14
WET SIDE
FLOODWALL PATTERNING

SURVEY AND MAPPING
CHECKED
DRAWN
DRAWN
DRAWN
DRAWN

AMENDMENTS
APPROVED
PAGE
PAGE
PAGE
FLOODWALL PATTERNING WET SIDE MONOLITH 18 ELEVATION

FLOODWALL PATTERNING WET SIDE MONOLITH 17 ELEVATION
FLOODWALL PATTERNING WET SIDE MONOLITH 32 ELEVATION
FULL SCALE 3/16" = 1'

FLOODWALL PATTERNING WET SIDE MONOLITH 31 ELEVATION
FULL SCALE 3/16" = 1'
FLOODWALL PATTERNING WET SIDE MONOLITH 34 ELEVATION
FULL SCALE 3'10" = 1'

FLOODWALL PATTERNING WET SIDE MONOLITH 33 ELEVATION
FULL SCALE 3'10" = 1'

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-466-4666
(Regulations may differ where we apply)

Know what's below.
Call before you dig.
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-466-4666
Know what's below.
Call before you dig.
Know what's below.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-464-6666
(LICENSED HEAT DETECTOR OR APPR.)

CALL BEFORE YOU DIG.

FLOODWALL PATTERNING WET SIDE MONOLITH 44 ELEVATION
FULL SCALE: 1" = 1' COMPLETED: 6-1-06

FLOODWALL PATTERNING WET SIDE MONOLITH 43 ELEVATION
FULL SCALE: 1" = 1' COMPLETED: 6-1-06

CHRISTIE TRUE, DIRECTOR
WATER AND LAND RESOURCES DIVISION
DEPARTMENT OF NATURAL RESOURCES AND PARKS

MONOLITHS 43 AND 44
WET SIDE
FLOODWALL PATTERNING
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE I
WET SIDE
MONOLITHS 43 AND 44
CALL 811 WORKING DAYS BEFORE YOU DIG
1-800-466-4666
(811 or 1-800-GET-HELP)
Know what's below.
Call before you dig.

FLOODWALL PATTERNING WET SIDE MONOLITH 50 ELEVATION
FULL SCALE 1/4" = 1'

FLOODWALL PATTERNING WET SIDE MONOLITH 49 ELEVATION
FULL SCALE 1/4" = 1'
FLOODWALL PATTERNING WET SIDE MONOLITH 54 ELEVATION

FULL SCALE 3/16" = 1'

FLOODWALL PATTERNING WET SIDE MONOLITH 53 ELEVATION

FULL SCALE 3/16" = 1'
CALL 8 WORKING DAYS
BEFORE YOU DIG
1-800-466-4225
(Washington State only)
Know what's below.
Call before you dig.

FLOODWALL PATTERNING WET SIDE MONOLITH 58 ELEVATION
FULL SCALE 1"=1'-0"

FLOODWALL PATTERNING WET SIDE MONOLITH 55 ELEVATION
FULL SCALE 1"=1'-0"
Know what's below.

R
Call before you dig.

Christie True, Director
River and Floodplain Management Section
Water and Land Resources Division
Department of Natural Resources and Parks

FLOODWALL PATTERNING WET SIDE MONOLITH 58 ELEVATION
FULL SCALE 1/16" = 1'

FLOODWALL PATTERNING WET SIDE MONOLITH 57 ELEVATION
FULL SCALE 1/16" = 1'
LOWRBRUSSELL LEVEE SETBACK PROJECT
PHASE 1
STORM DRAIN IMPROVEMENTS PLAN
STA 8+50 TO 18+00

NOTES:
1. CONTRACTOR SHALL VERIFY LOCATION AND RMS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEE ROADS AND TRAILS PAVEMENT PLANS FOR ROADWAY DESIGN.
3. SEE HABITAT FEATURES AND SOD REVIEW FOR HABITAT DETAILS.
4. SEE STRUCTURAL (FLOOD WALL) PLANS FOR FLOOD WALL.
5. DO NOT CONSTRUCT INFILTRATION AREAS AND CONSTRUCTED INFILTRATION SYSTEMS UNTIL THE CONTRIBUTING DRAINAGE AREA AND/OR ADJACENT CONSTRUCTION HAS BEEN COMPLETELY STABILIZED. WHEN THIS TIME OF CONSTRUCTION IS NOT POSSIBLE, INFILTRATION SYSTEMS ENTER INTO THE INFILTRATION AREA OR SYSTEM.

King County
Department of Natural Resources and Parks
Deputy Director of Park Planning
Rachel True, Director

04/02/19
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
ABANDONMENT DETAILS

NOTES:
1. EXISTING ALIGNED SEWER PIPE TO BE ABANDONED IS DUCTILE IRON SEWER LINE.
2. EXISTING PIPE TO BE ABANDONED TO BE SET BACK FROM EXISTING SEWER LINE.
3. CUT AND REMOVE SURROUNDING GRADE MATERIAL TO ALLOW FOR INSTALLATION OF PIPE PLUG.
4. CLEAN PIPE OF DIRT AND DETERGENT PRIOR TO INSTALLATION OF PIPE PLUG.
5. INSTALL PIPE PLUGS IN SEWER LINE AT POINTS WHERE EXISTING SEWER LINE CHANGES DIRECTION.
6. VERIFY ABANDONED PIPE PLUGS WITH ELEVATIONS AND LENGTHS PROVIDED IN SHEET.
7. VERIFY ABANDONED PIPE PLUGS WITH ELEVATIONS AND LENGTHS PROVIDED IN SHEET.
8. VERIFY ABANDONED PIPE PLUGS WITH ELEVATIONS AND LENGTHS PROVIDED IN SHEET.
9. VERIFY ABANDONED PIPE PLUGS WITH ELEVATIONS AND LENGTHS PROVIDED IN SHEET.
10. VERIFY ABANDONED PIPE PLUGS WITH ELEVATIONS AND LENGTHS PROVIDED IN SHEET.

Know what's below. Call before you dig.
FH
Know what's below.
R
Call before you dig.

Christie True, Director
River and Floodplain Management Section
Water and Land Resources Division
Department of Natural Resources and Parks
King County

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 1
WATER
PLAN AND PROFILE
STA 34+50 TO 54+00

WATER UTILITY NOTES:
1. Existing utility locations and values are estimates. Contact the utility owner to verify all utility locations as needed.
2. Maintain minimum 20" cover for all water lines.
3. For water services that affect fire protection, notify the Kent Fire Department at 253-833-8700.
4. Grade/adjust existing utilities and on box areas along existing 12" water line to accommodate park fills.
5. Cut and remove 5' section of existing 12" water connection 12" south of box to existing 12" water. South install 12" w/p plug on existing 12" water tie-in.