

CITY OF BOTHELL 35TH AVENUE SE DRAINAGE IMPROVEMENTS

2003 WESTERN AVENUE, SUITE 700
SEATTLE, WA 98121
(206) 728-9655



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LOCATION MAP

NOT TO SCALE

MAYOR:
MASON THOMPSON
DEPUTY MAYOR:
RAMI AL-KABRA

CITY COUNCIL:
AMANDA DODD
BENJAMIN MAHNKEY
JENNE ALDERKS
JEANNE ZORNES
CARSTON CURD

PUBLIC WORKS DIRECTOR:
ERIN LEONHART

CITY MANAGER:
KYLE STANNERT

CITY ENGINEER:
STEVE MORIKAWA

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|---------------|---|
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PROJECT LOCATIONS:

35TH AVENUE SE
BETWEEN 234TH STREET SE AND 236TH STREET SE
BOTHELL, WA

CLIENT INFORMATION:

CITY OF BOTHELL
18415 101ST AVENUE NE
BOTHELL, WA 98011

Tt PROJECT No.:

100-WTR-T40226

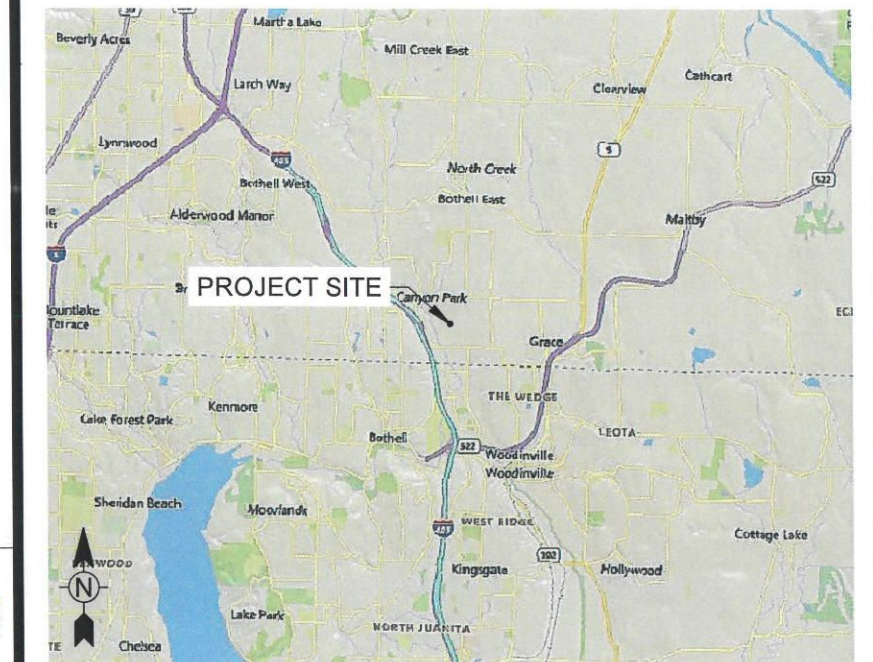
CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES:

REPLACE AN EXISTING 18" CMP CULVERT UNDER 35TH AVE SE WITH FISH PASSABLE SPLIT BOX BURIED STRUCTURE AND CONSTRUCT A NEW STREAM CHANNEL AND OVERFLOW BERM TO DIRECT STREAM FLOWS THROUGH THE BURIED STRUCTURE.

ISSUED:

VICINITY MAP:



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STANDARD DETAILS - CITY OF BOTHELL

STANDARD DETAIL 372 - RAISED PAVEMENT LANE MARKINGS

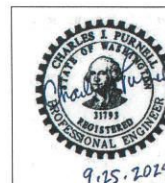
STANDARD DETAILS - WSDOT

I-10.10-01 HIGH VISIBILITY FENCE
I-30.17-01 HIGH VISIBILITY SILT FENCE
I-80.10-02 MISCELLANEOUS EROSION CONTROL DETAILS
K-80.10-02 CLASS A CONSTRUCTION SIGNING INSTALLATION
M-20.10-04 LONGITUDINAL MARKING PATTERNS

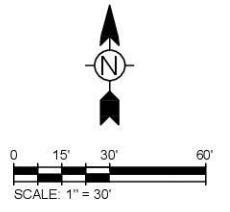
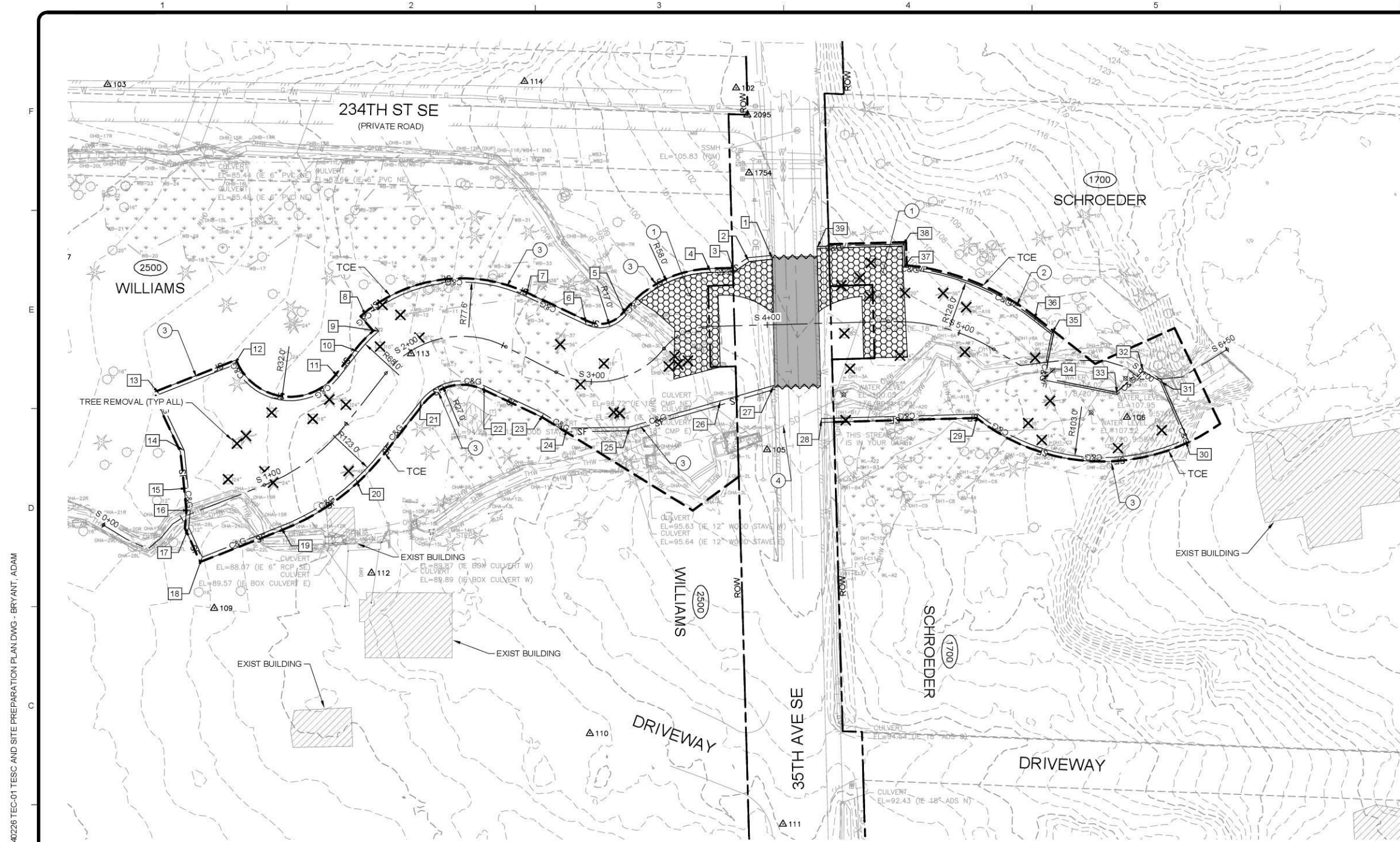
APPROVED FOR CONSTRUCTION

Steve Morikawa 10/16/24
Steve Morikawa, P.E. Date
City Engineer

BID SET
OCTOBER 2024



G-01 - COVER SHEET



GENERAL NOTES

- THIS PLAN REPRESENTS THE MINIMUM TESC REQUIREMENTS FOR THIS PROJECT. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED BY THE CITY OF BOTHELL.
- THE LOCATION OF EXISTING UTILITIES SHOWN IS BASED ON THE PROJECT SURVEY AND UTILITY RECORD MAPS. THIS INFORMATION SHALL NOT BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS IN THE FIELD AS NECESSARY.
- THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AND IMPLEMENT ALL NECESSARY PROTECTIVE MEASURES TO ADEQUATELY PROTECT FRANCHISE UTILITIES FOR THE FULL DURATION OF CONSTRUCTION. FRANCHISE UTILITIES INCLUDE, BUT ARE NOT LIMITED TO WATER MAINS, GAS LINES, OVERHEAD POWER, FIBER INTERNET, AND UNDERGROUND TELECOMMUNICATIONS.
- ALL STOCKPILE AND STAGING AREAS SHALL BE LOCATED WITHIN THE LIMITS OF THE ROAD CLOSURE OR THE TEMPORARY CONSTRUCTION EASEMENT. THE CONTRACTOR MAY ELECT TO OBTAIN TEMPORARY ACCESS TO PRIVATE PROPERTY FOR USE AS STOCKPILING AND/OR STAGING LOCATIONS. SUCH AGREEMENTS, NEGOTIATIONS, AND PAYMENTS ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE STOCKPILE LOCATION TO THE ENGINEER FOR APPROVAL.
- SALVAGED TREES AND ROOTWADS SHALL BE INCORPORATED INTO THE LARGE WOOD FEATURES AS NOTED. SEE SHEET C-09 AND C-12.
- THE CONTRACTOR SHALL PROTECT ALL TREES NOT TO BE REMOVED.
- SEE SHEET G-03 FOR TEMPORARY EROSION AND SEDIMENT CONTROL STANDARD NOTES.
- HIGH VISIBILITY FENCING, HIGH VISIBILITY SILT FENCE, AND CLEAR AND GRUB LIMITS ARE SHOWN WITH SIGNIFICANT SEPARATION FOR CLARITY. THE FEATURES SHOULD BE TIGHTLY GROUPED WITH MINIMAL SPACE BETWEEN EACH OF THEM AND SHOULD ADHERE TO THE CLEAR AND GRUB LIMITS AS DEFINED IN THE PLAN VIEW OF THIS SHEET.
- PRIOR TO ENTERING THE ROADWAY, WHEELS MUST BE WASHED OF ALL SEDIMENT IN THE STABILIZED CONSTRUCTION ACCESS. SEDIMENT TRACKED OUT ONTO THE ROADWAY MUST BE SWEEPED BY THE END OF THE WORK DAY.

KEY NOTES

- STABILIZED CONSTRUCTION ENTRANCE. SEE WSDOT STANDARD PLAN I-80-10-02. RESTORE PRE-CONSTRUCTION CONDITION UPON REMOVAL OF STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL HIGH VISIBILITY FENCING AT C&G LIMIT. OFFSETS ARE SHOWN FOR VISUAL CLARITY. SEE WSDOT STANDARD PLAN I-10-10-01. HIGH VISIBILITY SILT FENCE SHALL REMAIN IN PLACE FOR 3 YEARS FOLLOWING CONSTRUCTION.
- INSTALL HIGH VISIBILITY SILT FENCE AT C&G LIMIT. OFFSETS ARE SHOWN FOR VISUAL CLARITY. SEE WSDOT STANDARD PLAN I-30-17-01. HIGH VISIBILITY SILT FENCE SHALL REMAIN IN PLACE FOR 3 YEARS FOLLOWING CONSTRUCTION.
- PLUG EXISTING PIPE CULVERT AND ABANDON IN PLACE PER SPECIAL PROVISION 7-08.

RECOMMENDED TESC CONSTRUCTION SEQUENCE

- PRE-CONSTRUCTION MEETING.
- FENCE CLEARING LIMITS AND INSTALL PERIMETER PROTECTION FOR INSPECTION BY THE ENGINEER.
- POST CONSTRUCTION SIGN WITH THE NAME AND PHONE NUMBER OF THE TESC CONTRACTOR.
- LOCATE STAGING AREAS AS NEEDED. SECURE AN AREA FOR REFUELING OPERATIONS. NO STAGING OR REFUELING MAY OCCUR WITHIN 150 FEET OF WATERBODIES.
- INSTALL HIGH VISIBILITY FENCING AND CONSTRUCT TEMPORARY AND PERMANENT SURFACE WATER CONTROLS (STORM SYSTEM) SIMULTANEOUSLY WITH CLEARING AND GRUBBING. SEED AND INSTALL MATTING TO STABILIZE AS DIRECTED BY THE ENGINEER. DO NOT STOCKPILE EQUIPMENT OR MATERIAL WITHIN WETLAND OR STREAM BUFFERS.
- RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, BMPs ARE ALWAYS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- SURFACE ROUGHEN OR TEXTURE ALL "CUT" SLOPES PRIOR TO SOIL PLACEMENT AND SEEDING.
- UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMPs REMOVED, AS DIRECTED BY THE ENGINEER.
- HIGH VISIBILITY SILT FENCE AND HIGH VISIBILITY FENCING TO REMAIN IN PLACE FOR 3 YEARS FOLLOWING CONSTRUCTION COMPLETION.

| FENCING SEGMENT | START PT NO. | END PT NO. | FENCING TYPE |
|-----------------|--------------|------------|--------------|
| 1 | 16 | 16 | SF |
| 16 | 17 | 17 | NONE |
| 17 | 27 | 27 | SF |
| 27 | 28 | 28 | NONE |
| 28 | 30 | 30 | SF |
| 30 | 39 | 39 | HPV |

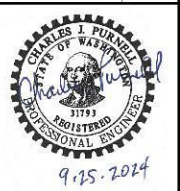
START POINTS AND END POINTS ARE THE SAME POINTS AS INDICATED IN THE CLEAR AND GRUB POINT TABLE.



| CLEAR AND GRUB POINT TABLE | | | | | | | | | | | |
|----------------------------|-------------|-----------|------------|--------|-------------|-----------|------------|--------|-------------|-----------|------------|
| PT NO. | DESCRIPTION | NORTHING | EASTING | PT NO. | DESCRIPTION | NORTHING | EASTING | PT NO. | DESCRIPTION | NORTHING | EASTING |
| 1 | C&G | 289411.10 | 1307834.76 | 16 | C&G | 289281.17 | 1307533.40 | 31 | C&G | 289347.95 | 1308035.24 |
| 2 | C&G | 289409.89 | 1307822.49 | 17 | C&G | 289272.38 | 1307532.60 | 32 | C&G | 289353.15 | 1308026.53 |
| 3 | C&G | 289404.58 | 1307814.80 | 18 | C&G | 289256.99 | 1307539.53 | 33 | C&G | 289341.16 | 1308013.06 |
| 4 | C&G | 289404.24 | 1307802.81 | 19 | C&G | 289272.84 | 1307580.05 | 34 | C&G | 289348.75 | 1307974.43 |
| 5 | C&G | 289382.07 | 1307758.80 | 20 | C&G | 289297.22 | 1307619.15 | 35 | C&G | 289372.28 | 1307979.05 |
| 6 | C&G | 289377.21 | 1307738.21 | 21 | C&G | 289337.89 | 1307652.71 | 36 | C&G | 289379.19 | 1307970.28 |
| 7 | C&G | 289391.82 | 1307707.16 | 22 | C&G | 289345.67 | 1307685.45 | 37 | C&G | 289406.17 | 1307902.20 |
| 8 | C&G | 289381.29 | 1307624.39 | 23 | C&G | 289331.14 | 1307716.35 | 38 | C&G | 289417.93 | 1307901.86 |
| 9 | C&G | 289373.84 | 1307630.87 | 24 | C&G | 289323.75 | 1307728.28 | 39 | C&G | 289416.67 | 1307857.75 |
| 10 | C&G | 289363.17 | 1307620.44 | 25 | C&G | 289324.31 | 1307760.68 | | | | |
| 11 | C&G | 289349.99 | 1307610.11 | 26 | C&G | 289337.83 | 1307807.74 | | | | |
| 12 | C&G | 289356.38 | 1307556.03 | 27 | C&G | 289345.76 | 1307835.35 | | | | |
| 13 | C&G | 289341.24 | 1307517.31 | 28 | C&G | 289328.71 | 1307860.02 | | | | |
| 14 | C&G | 289312.03 | 1307530.21 | 29 | C&G | 289330.98 | 1307940.98 | | | | |
| 15 | C&G | 289292.71 | 1307532.21 | 30 | C&G | 289317.92 | 1308048.48 | | | | |



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CITY OF BOTHELL
35TH AVENUE SE
DRAINAGE IMPROVEMENTS

TESC AND SITE
PREPARATION PLAN

PROJ: 100-WTR-T40266
DESN: AB
DRWN: CC
CHKD: CP

TEC-01

10/7/2024 1:18:31 PM - P:\100-WTR-T40266 BOTHELL_35TH AVENUE SE PHASE II\CAD\SHEET FILES\2026\TEC-01 TESC AND SITE PREPARATION PLAN DWG - BRYANT, ADAM

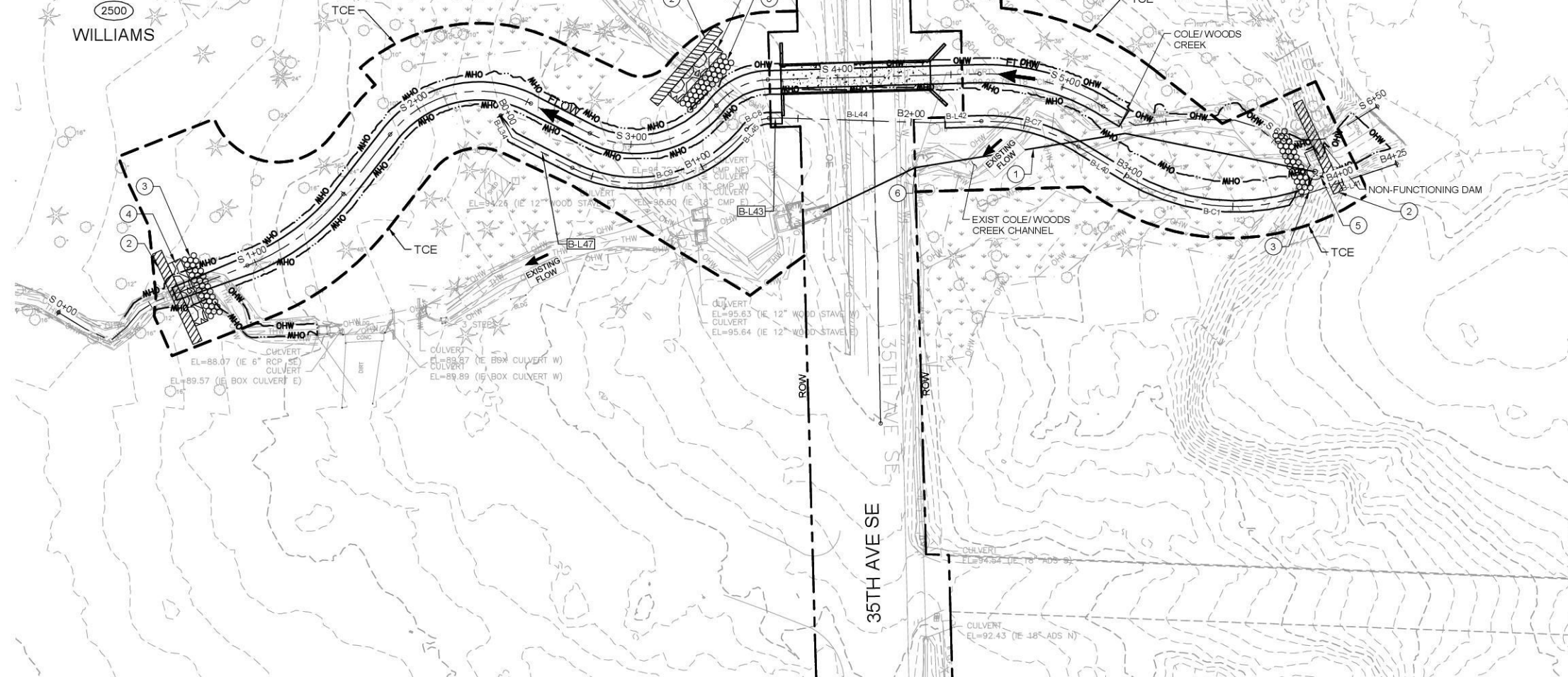
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Bar Measures 1 inch, otherwise drawing not to scale

**PEAK FLOWS DURING
IN-WATER WORK WINDOW
(JULY 01 - SEPTEMBER 30)**

| MEAN DAILY | <1 CFS |
|------------|-----------|
| 1.5-YR | 16.6 CFS |
| 2-YR* | 21.8 CFS |
| 5-YR | 36.1 CFS |
| 10-YR | 46.8 CFS |
| 25-YR | 61.3 CFS |
| 100-YR | 115.0 CFS |

*HYDRAULIC CAPACITY OF THE STREAM BYPASS MUST BE EQUAL TO OR GREATER THAN THE 2-YEAR PEAK FLOW EVENT.



35TH AVE SE - TEMPORARY STREAM BYPASS PLAN

SCALE: 1" = 30'

STREAM BYPASS NOTES

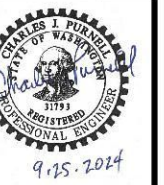
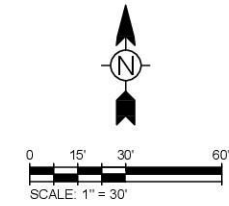
- 1 SUGGESTED TEMPORARY BYPASS PIPE LOCATION, SEE GENERAL NOTE 2. AVOID DEWATERING STREAM CHANNEL DOWNSTREAM OF PROJECT SITE DURING ANY ADJUSTMENTS TO THE TEMPORARY BYPASS PIPE. THE BYPASS PIPE SHALL BE SUFFICIENT TO PASS THE 2-YEAR WORK WINDOW PEAK FLOW.
- 2 FISH EXCLUSION NET AS REQUIRED BY WDFW HPA PERMIT AND PROJECT SPECIFICATIONS.
- 3 TEMPORARY COFFERDAM, SEE DETAIL 1/BP-02.
- 4 CONTRACTOR DESIGNED ENERGY DISSIPATION.
- 5 PUMP FOR STREAM BYPASS AS REQUIRED.
- 6 FOLLOWING COMPLETION AND CONNECTION OF PROPOSED STREAM CHANNEL, ABANDON AND PLUG EXISTING CULVERT PER CITY OF BOTHELL GENERAL SPECIAL PROVISION 7-08.3(4).

STREAM BYPASS LEGEND

- TEMPORARY COFFERDAM
- FISH EXCLUSION NET
- CONTRACTOR DESIGNED ENERGY DISSIPATION

STREAM PROTECTION NOTES

1. THE LOCATION OF EXISTING UTILITIES SHOWN IS BASED ON THE PROJECT SURVEY AND UTILITY RECORD MAPS. THIS INFORMATION SHALL NOT BE RELIED UPON AS BEING EXACT OR COMPLETE. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS IN FIELD AS NECESSARY.
2. CONTRACTOR SHALL SUBMIT PLANS FOR DIVERTING STREAM FLOW AND DEWATERING CONSTRUCTION AREA PER CONDITIONS OF THE HPA PERMIT AND PROJECT SPECIFICATIONS PRIOR TO INITIATING CONSTRUCTION MOBILIZATION. THIS FLOW BYPASS AND FISH EXCLUSION SCHEMATIC REPRESENTS THE MINIMUM FLOW BYPASS REQUIREMENTS.
3. THE CONTRACTOR SHALL MINIMIZE TURBIDITY DISCHARGES INTO THE STREAM AND SHALL HALT CONSTRUCTION AS DIRECTED BY THE ENGINEER IF TURBIDITY EXCEEDS PERMITTED LEVELS.
4. COFFERDAM CONSTRUCTION SHALL NOT COMMENCE UNTIL THE UPSTREAM AND DOWNSTREAM TEMPORARY FISH EXCLUSION NETS HAVE BEEN INSTALLED AND FISH REMOVAL IS COMPLETE.
5. FISH EXCLUSION AND FISH REMOVAL WORK TO BE PERFORMED PER HPA PERMIT AND PROJECT SPECIFICATIONS REQUIREMENTS. TEMPORARY FISH EXCLUSION NET MUST REMAIN IN PLACE DURING INSTREAM WORK AND COFFERDAM REMOVAL. ELECTROSHOCKING WILL NOT BE PERMITTED.
6. SIZE, QUANTITY, AND CONFIGURATION OF COFFERDAMS ARE CONCEPTUAL ONLY AND WILL VARY WITH CHANGING SITE CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SIZE, QUANTITY, AND CONFIGURATION NECESSARY TO BYPASS FLOW, ISOLATE THE WORK AREA, ENABLE SUCCESSFUL OPERATION OF BYPASS SYSTEM AND MINIMIZE FLOW LEAKAGE TO THE EXTENT NECESSARY FOR CONSTRUCTION.
7. TEMPORARY PUMPING OF STREAM DURING INSTALLATION AND REMOVAL OF UPSTREAM COFFERDAM AND DOWNSTREAM OUTLET ENERGY DISSIPATER AND DURING ALL INSTREAM CONSTRUCTION WILL BE REQUIRED EXCEPT DURING HIGH FLOWS. SEE CONTRACT SPECIFICATIONS REGARDING FLOW BYPASS REQUIREMENTS DURING HIGH FLOWS. BYPASS PUMPS AND PIPES TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES AT ALL TIMES. TEMPORARY PIPE ANCHORING MAY BE REQUIRED.
8. GROUNDWATER MAY BE ENCOUNTERED IN EXCAVATIONS. CONTRACTOR SHALL DEWATER AS NECESSARY FOR CONSTRUCTION AND INSPECTION. ALL DEWATERING WATER SHALL BE DISCHARGED TO UPLAND AREAS OR AN EROSION CONTROL BMP AS APPROVED BY THE ENGINEER. THE WATER SHALL NOT BE DIRECTLY DISCHARGED INTO THE STREAM. EROSION CONTROL BMPs MAY BE NECESSARY TO ENSURE THAT.
9. THE FLOW BYPASS AND FISH EXCLUSION SYSTEM SHALL BE MAINTAINED 24 HOURS PER DAY DURING CONSTRUCTION AND MONITORED BY THE CONTRACTOR DURING WORKING AND NON-WORKING HOURS.
10. EQUIPMENT FOR INSTREAM WORK SHALL BE CLEANED PER SPECIAL PROVISION 8-02 PRIOR TO WORK BELOW ORDINARY HIGH WATER.
11. CONTRACTOR SHALL SUBMIT A SPILL PREVENTION PLAN. CONTRACTOR SHALL HAVE ON SITE OIL ABSORBENT PADS AND CERTIFIED PERSONNEL DURING EQUIPMENT OPERATIONS.
12. EQUIPMENT FUELING, MAINTENANCE, AND STAGING SHALL OCCUR AT LEAST 100 FEET FROM THE CREEK. CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT POLLUTED WATER DOES NOT RUN OFF INTO THE CREEK AND THAT WATER QUALITY REMAINS IN COMPLIANCE WITH THE CSWGP.



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CITY OF BOTHELL
35TH AVENUE SE
DRAINAGE IMPROVEMENTS
**TEMPORARY STREAM
BYPASS PLAN**

| | |
|-------|----------------|
| PROJ: | 100-WTR-T40266 |
| DESN: | AB |
| DRWN: | NS |
| CHKD: | CP |

BP-01



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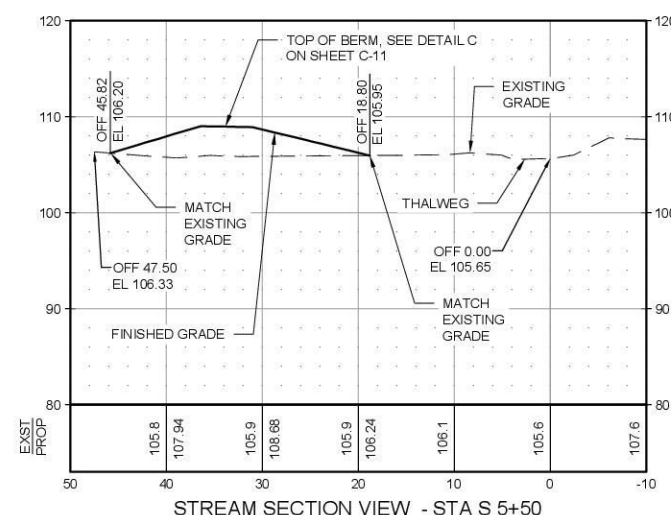
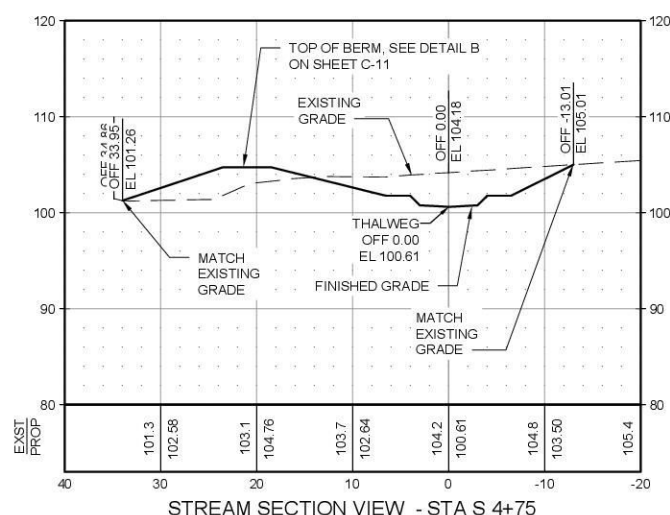
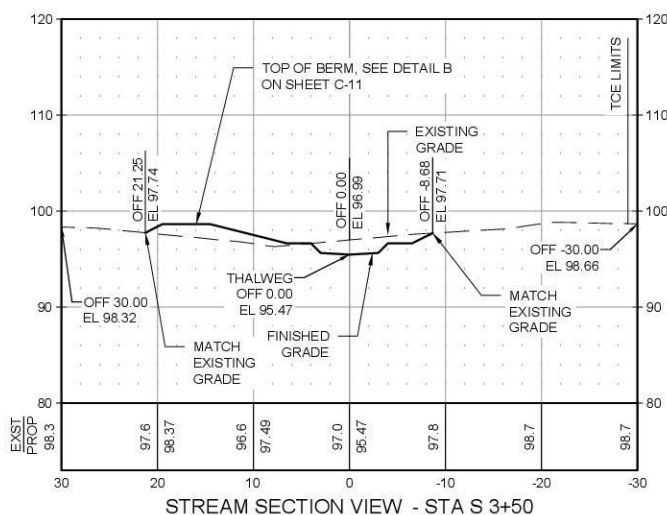
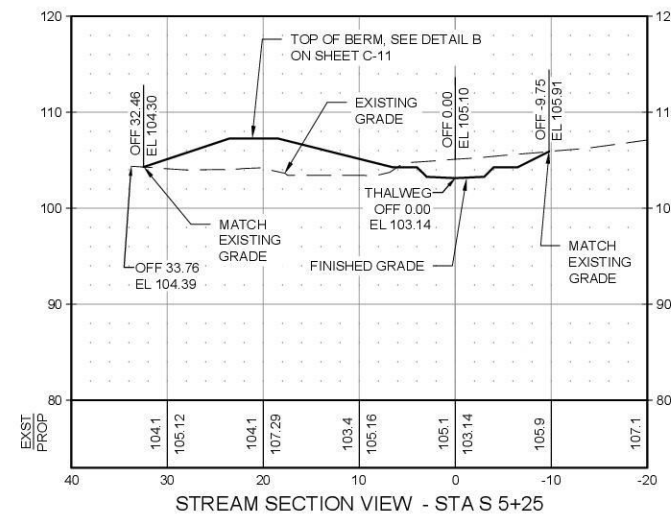
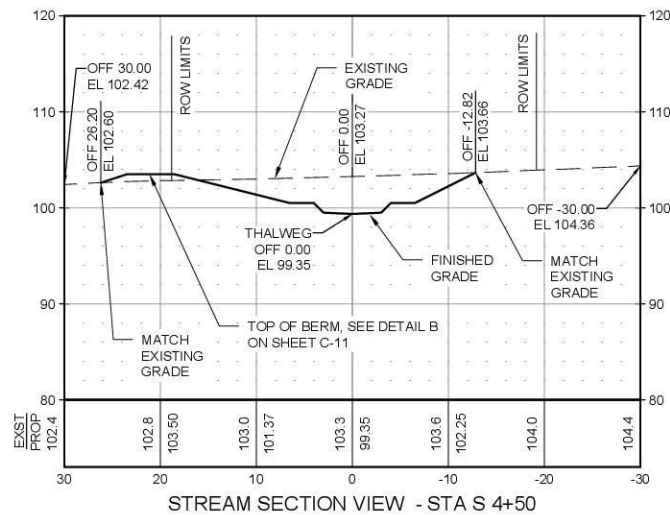
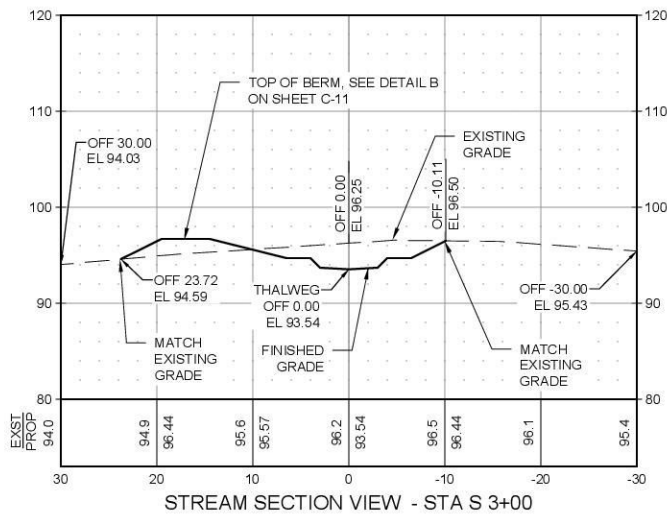
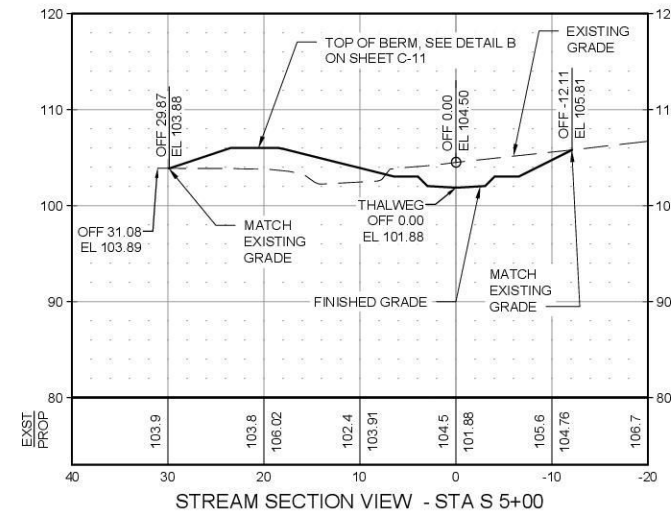
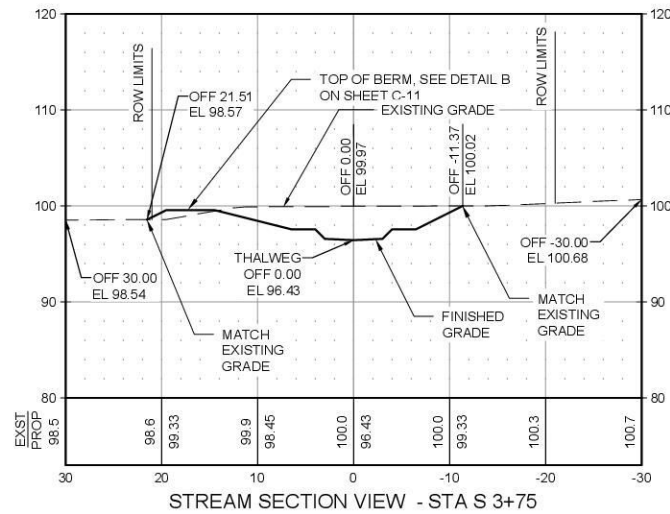
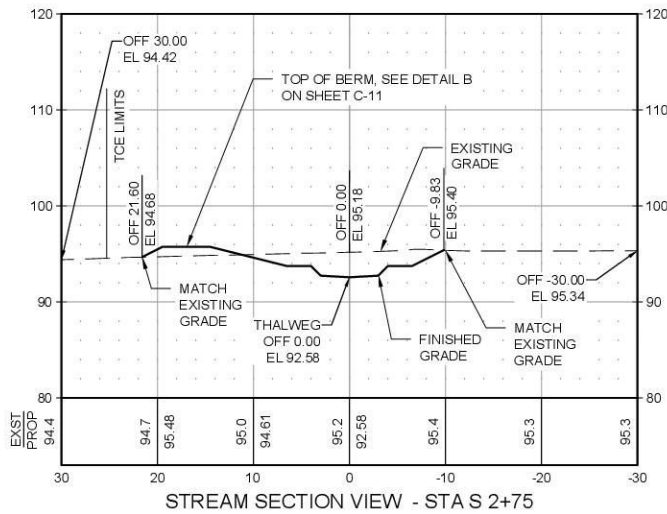
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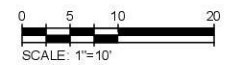
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10/7/2024 1:19:09 PM - P:\100-WTR-T-40268 BOTHELL 35TH AVENUE PHASE II\CAD\SHEET FILELIST\40226 C-03 PROP STREAM GRADING CROSS SECTIONS.DWG - BRYANT, ADAM



STREAM CROSS SECTIONS
SCALE: HORIZ. 1"=10' VERT. 1"=10'

- NOTE:**
- FINAL GRADE SHOWN DOES NOT REFLECT BERM OVER-EXCAVATION AND BACKFILL THAT MAY BE REQUIRED FOR INSTALLATION OF CULVERT, LWM, BERM, OR STREAM CHANNEL.
 - ALL CROSS SECTION VIEWS ARE LOOKING DOWNSTREAM.

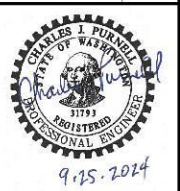


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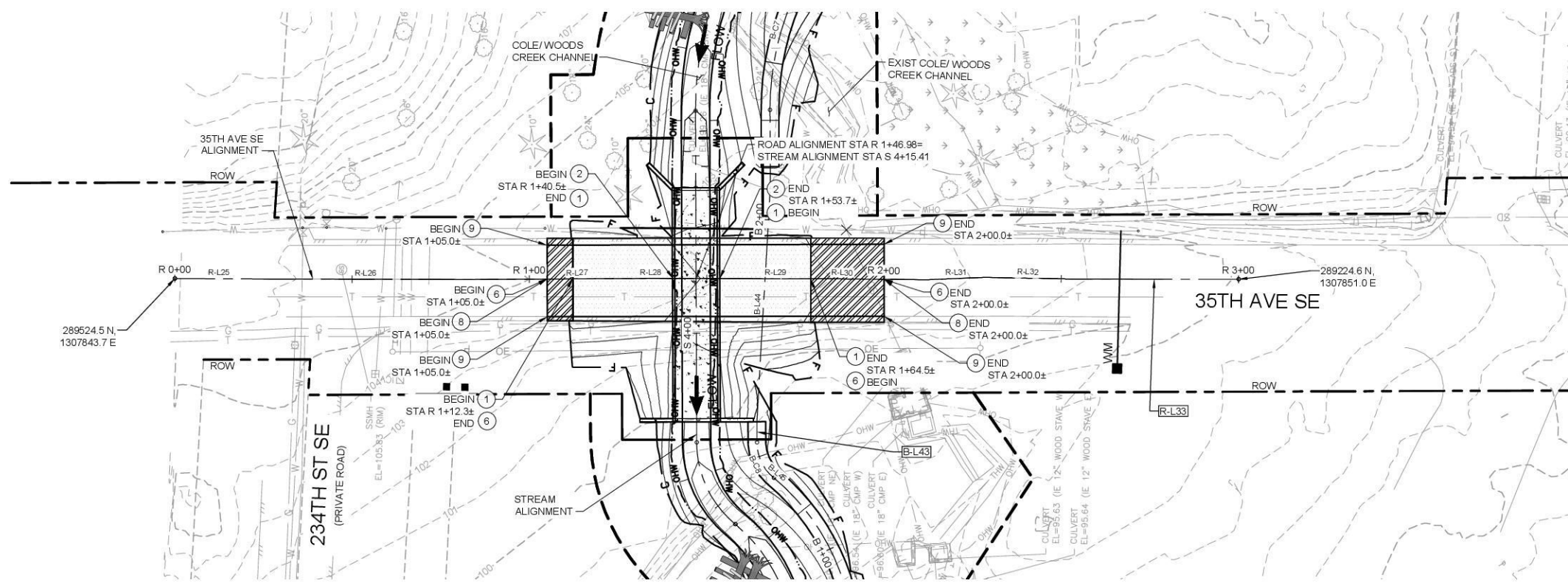
CITY OF BOTHELL
35TH AVENUE SE
DRAINAGE IMPROVEMENTS
PROPOSED STREAM
GRADING
CROSS SECTIONS 2

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| DESN: | AB |
| DRWN: | NS |
| CHKD: | CP |

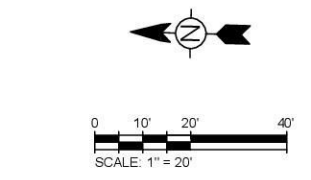
C-03

Bar Measures 1 inch, otherwise drawing not to scale

10/7/2024 1:19:30 PM - P:\100-WTR-T40266 BOTHELL\35TH AVE PHASE II\CAD\SHEET FILES\ST40226 C-05 ROAD PLAN AND PROFILE.DWG - BRYANT, ADAM



35TH AVE SE - ROAD PLAN
SCALE: 1" = 20'



CONSTRUCTION NOTES

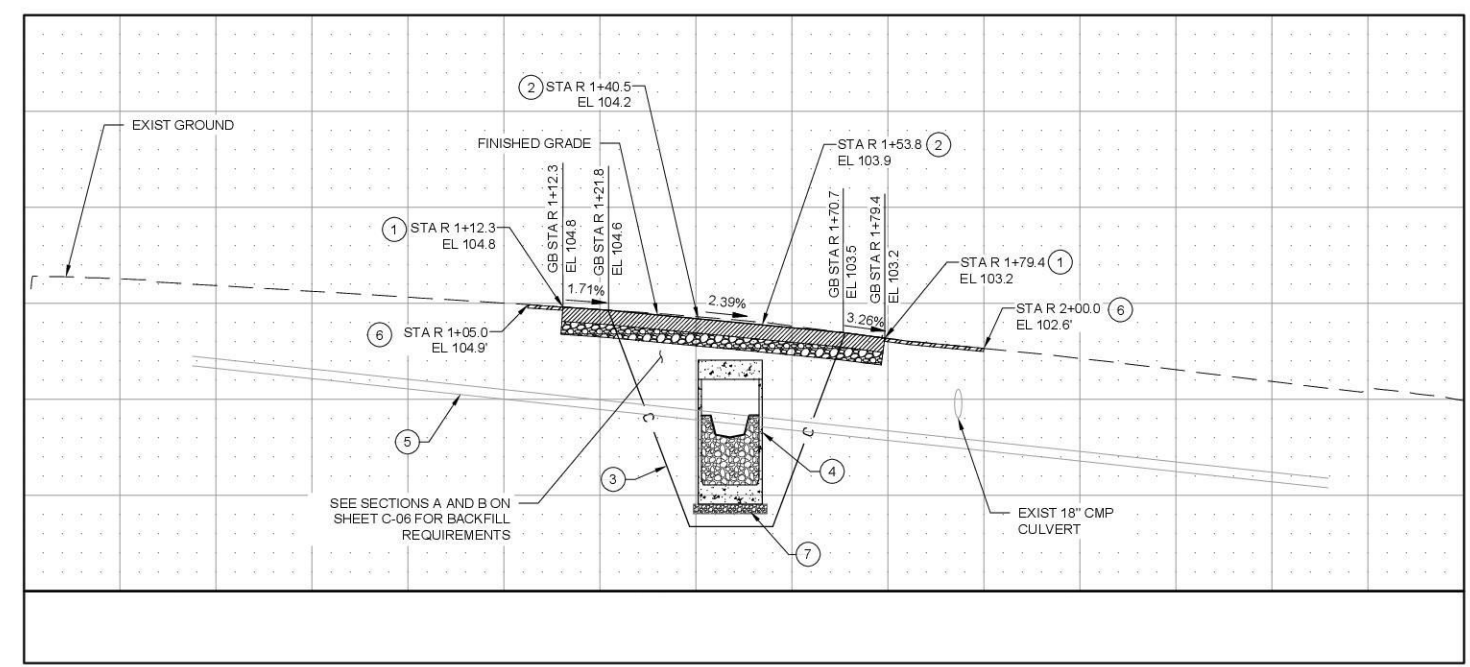
- 1 PAVING. SEE SECTION B, SHEET C-06.
- 2 ROAD SECTION OVER CULVERT. SEE SECTION A, SHEET C-06.
- 3 EXCAVATE AT 1.5H:1V SIDE SLOPE. ALL EARTHWORK MUST REMAIN WITHIN TCE AND ROW.
- 4 BURIED STRUCTURE. SEE SHEETS C-07 AND C-08.
- 5 EXISTING 6" DI WATER MAIN, TO BE RELOCATED BY OTHERS.
- 6 PLANING AND OVERLAY SEE SECTION C, SHEET C-06.
- 7 GRAVEL BACKFILL FOR FOUNDATION CLASS A.
- 8 RAISED PAVEMENT LANE MARKING, BROKEN CENTER LINE PER COB STANDARD DETAIL 372.
- 9 4" WHITE PAINT LINE PER WSDOT STANDARD PLAN M-20.10-04.

GENERAL NOTES

1. THE CONTRACTOR SHALL CONFIRM THE LOCATION, TYPE AND SIZE OF UTILITIES IN THE WORK AREA AND PROTECT FROM DAMAGE.
2. STREAM CHANNEL, BERM, AND LWM, SEE SHEETS C-09 TO C-12.

ROAD ALIGNMENT TABLE

| LINE TABLE ROAD ALIGNMENT | | | | |
|------------------------------|---------------|----------|-------------|-----------|
| LINE # | BEARING | DISTANCE | START POINT | END POINT |
| R-L25 | S1° 14' 36" E | 25.0' | 0+00.0 | 0+25.0 |
| R-L26 | S1° 16' 32" E | 57.6' | 0+25.0 | 0+82.6 |
| R-L27 | S1° 46' 34" E | 51.1' | 0+82.6 | 1+33.7 |
| R-L28 | S1° 17' 02" E | 20.9' | 1+33.7 | 1+54.5 |
| R-L29 | S1° 19' 11" E | 29.8' | 1+54.5 | 1+84.3 |
| R-L30 | S0° 59' 25" E | 27.6' | 1+84.3 | 2+12.0 |
| R-L31 | S3° 31' 21" E | 16.6' | 2+12.0 | 2+28.6 |
| R-L32 | S0° 27' 24" E | 23.9' | 2+28.6 | 2+52.5 |
| R-L33 | S1° 17' 32" E | 47.5' | 2+52.5 | 3+00.0 |

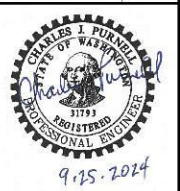


35TH AVE SE - ROAD PROFILE
SCALE: 1" = 20'



Know what's below.
Call before you dig.

BID SET
OCTOBER 2024



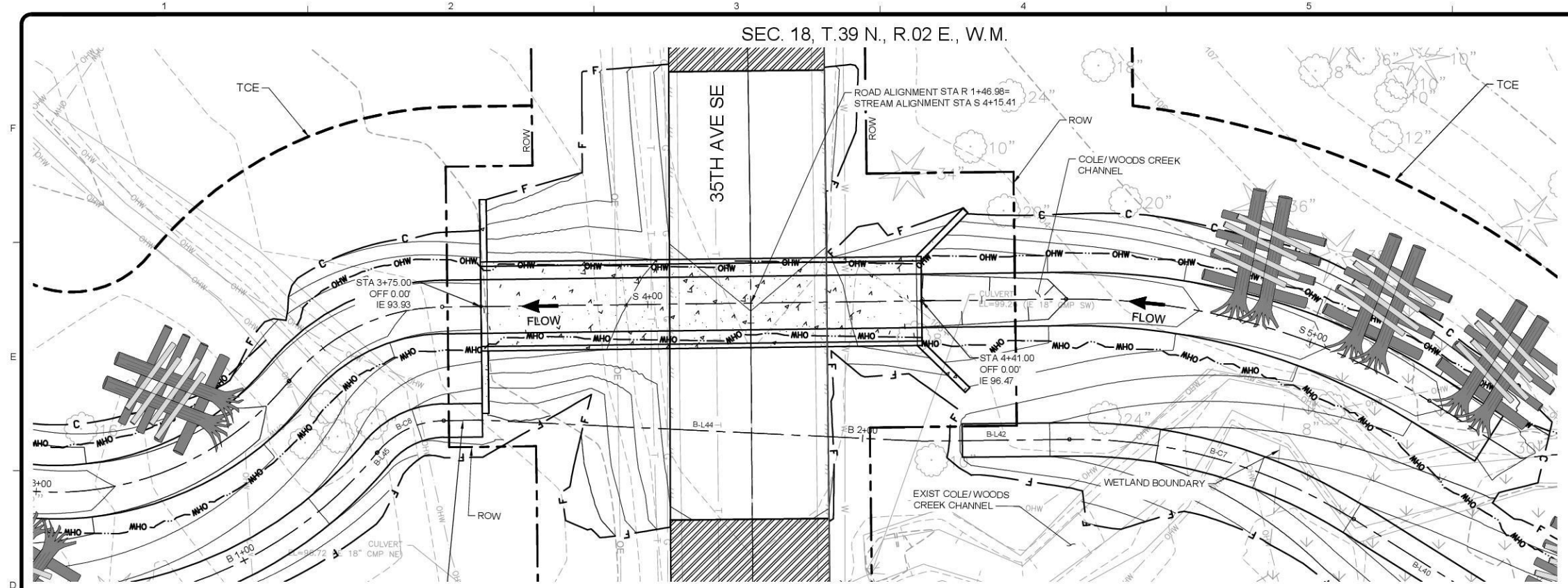
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CITY OF BOTHELL
35TH AVENUE SE
DRAINAGE IMPROVEMENTS
**ROAD PLAN AND
PROFILE**

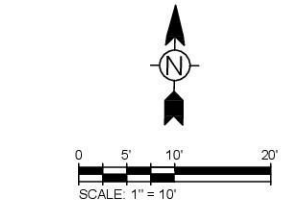
| | |
|-------|----------------|
| PROJ: | 100-WTR-T40266 |
| DESN: | AB |
| DRWN: | NS |
| CHKD: | CP |

C-05

Bar Measures 1 inch, otherwise drawing not to scale



35TH AVE SE - BURIED STRUCTURE PLAN
SCALE: 1" = 10'

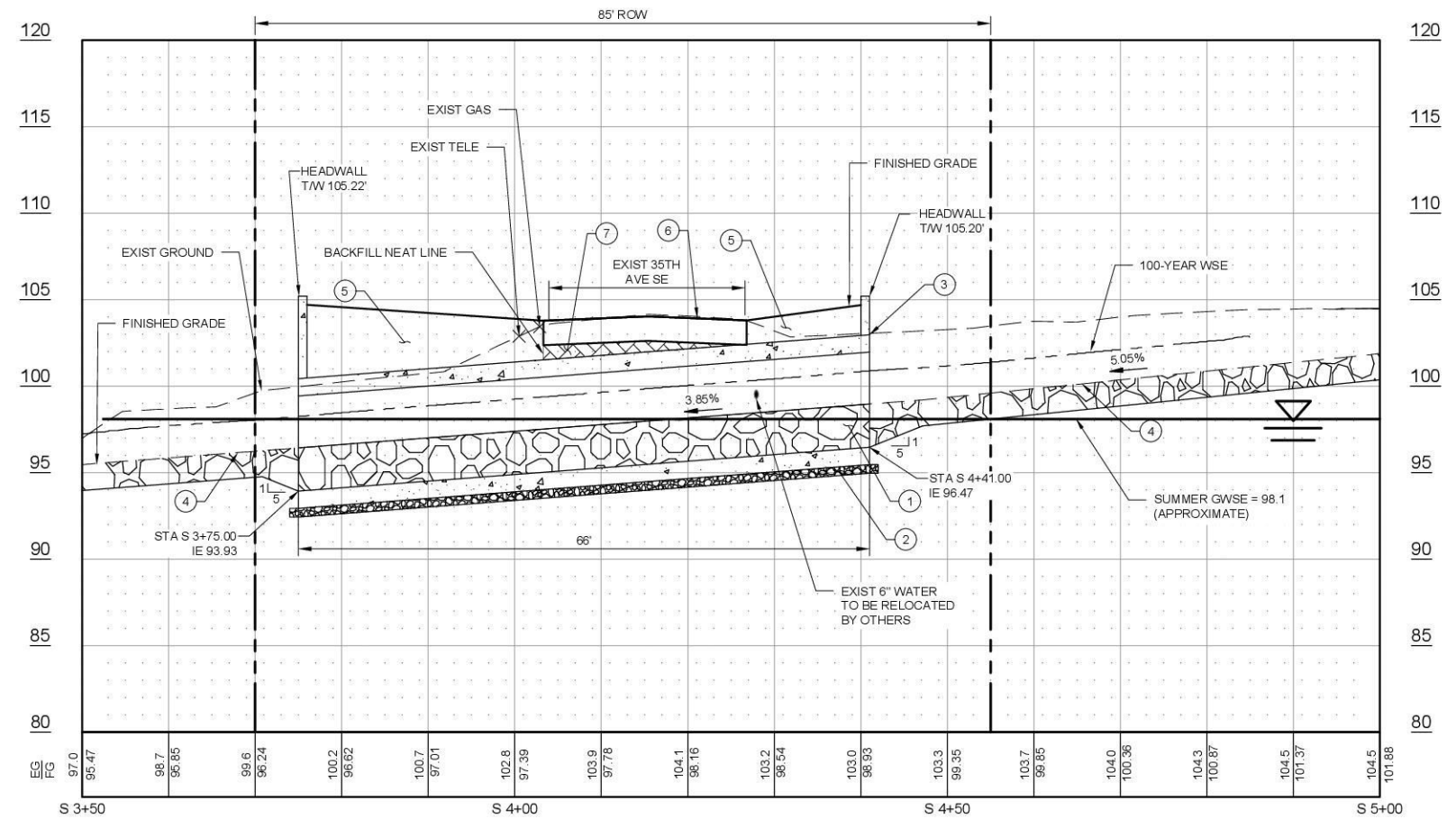


CONSTRUCTION NOTES

- ① STREAMBED MATERIAL (18" THICK) SEE SHEET C-11
- ② GRAVEL BACKFILL FOR FOUNDATION CLASS A
- ③ CONTRACTOR DESIGNED BURIED STRUCTURE, SEE SHEET C-08
- ④ SEE SHEET C-11 FOR STREAM CHANNEL
- ⑤ COMMON BORROW PER WSDOT STD SPECIFICATION 9-03.14(3)
- ⑥ SEE SHEET C-05 FOR ROAD PLAN AND PROFILE
- ⑦ GRAVEL BORROW PER WSDOT STD SPECIFICATION 9-03.14(1)

GENERAL NOTES

1. THE CONTRACTOR SHALL CONFIRM THE LOCATION, TYPE AND SIZE OF UTILITIES IN THE WORK AREA AND PROTECT FROM DAMAGE.
2. SEE GEOTECH REPORT FOR SUMMER GWSE=98.1' NEAR THE UPSTREAM END OF THE EXISTING CULVERT.



35TH AVE SE - BURIED STRUCTURE PROFILE
SCALE: HORIZ. 1" = 10', VERT. 1" = 5'



Know what's below.
Call before you dig.

BID SET
OCTOBER 2024



| MARK | DATE | DESCRIPTION | BY |
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CITY OF BOTHELL
35TH AVENUE SE
DRAINAGE IMPROVEMENTS
**BURIED STRUCTURE
PLAN AND PROFILE**

| | |
|-------|----------------|
| PROJ: | 100-WTR-T40266 |
| DESN: | AB |
| DRWN: | NS |
| CHKD: | CP |

C-07

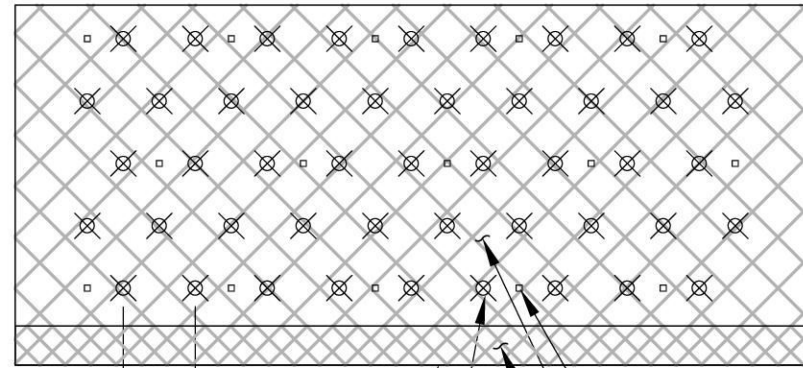
10/7/2024 1:19:51 PM - P:\100-WTR-T40266 BOTHELL_35TH AVENUE SE\PHASE 1\CD\DWG\FILEST\0226 C-07 CULVERT PLAN AND PROFILE_NTS.DWG - BRYANT, ADAM

Copyright: Tetra Tech

Bar Measures 1 inch, otherwise drawing not to scale

SEQUENCE OF WORK:

1. PLACE A 4" LAYER OF TOPSOIL A OVER ENTIRE PLANTING AREA.
2. INSTALL EROSION CONTROL BLANKET PER DETAILS ON SHEET L-04.
3. INSTALL LIVESTAKE CUTTINGS AS SHOWN IN DETAIL BELOW.



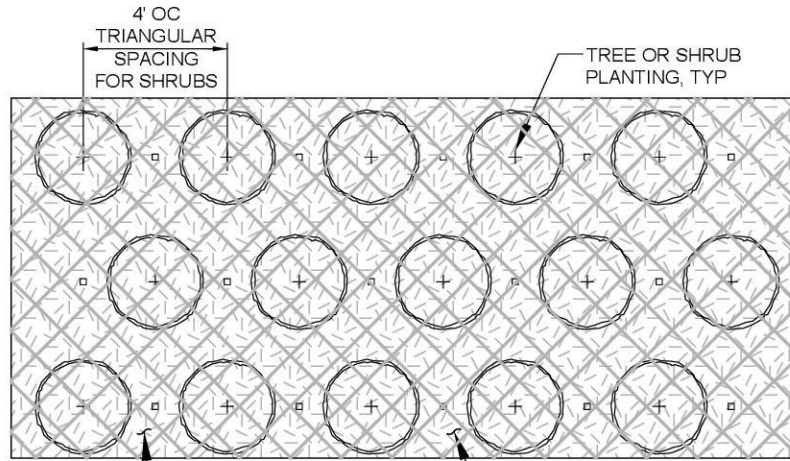
WOOD STAKES PER DETAIL 4, TYP.
 INSTALL EROSION CONTROL BLANKET, SEE SHEETS L-01, L-02 FOR LOCATIONS
 INSTALL COIR LOG WHERE SHOWN IN PLANS
 STREAM SIDE
 LIVE STAKE, TYP
 2' OC TRIANGULAR SPACING FOR LIVESTAKES

RIPARIAN PLANTING
 NO SCALE

1
 L-01, L-02

SEQUENCE OF WORK:

1. PLACE A 4" LAYER OF TOPSOIL A OVER ENTIRE PLANTING AREA.
2. PLACE 3" LAYER OF WOOD CHIP MULCH OVER TOPSOIL.
3. INSTALL EROSION CONTROL BLANKET PER DETAILS ON SHEET L-04.
4. PLANT TREES AND SHRUBS THROUGH COIR FABRIC IN SINGLE SPECIES GROUPS OF 2 TO 3 PLANTS.



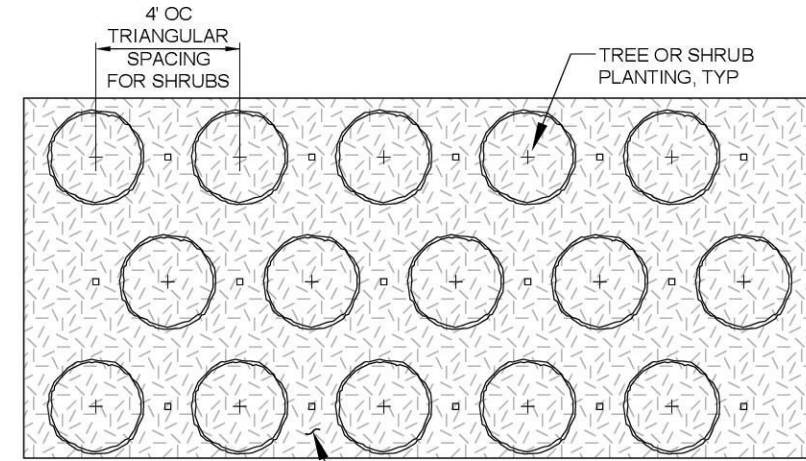
INSTALL EROSION CONTROL BLANKET, SEE SHEETS L-01, L-02 FOR LOCATIONS
 INSTALL 3" WOOD CHIP MULCH OVER ENTIRE PLANTING AREA, SEE SHEETS L-01, L-02 FOR LOCATIONS
 4' OC TRIANGULAR SPACING FOR SHRUBS
 TREE OR SHRUB PLANTING, TYP

RIPARIAN BUFFER PLANTING
 NO SCALE

2
 L-01, L-02

SEQUENCE OF WORK:

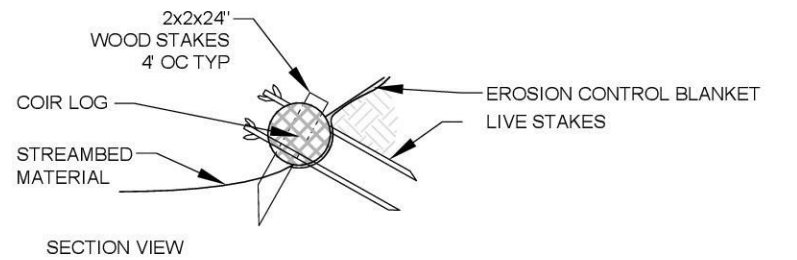
1. INSTALL SOIL AMENDMENT BY PLACING 3" DEPTH FINE COMPOST AND TILLING COMPOST TO A 10" DEPTH.
2. PLANT SHRUBS IN SINGLE SPECIES GROUPS OF 2 TO 3 PLANTS
3. PLACE 3" LAYER OF WOOD CHIP MULCH OVER ENTIRE PLANTING AREA.



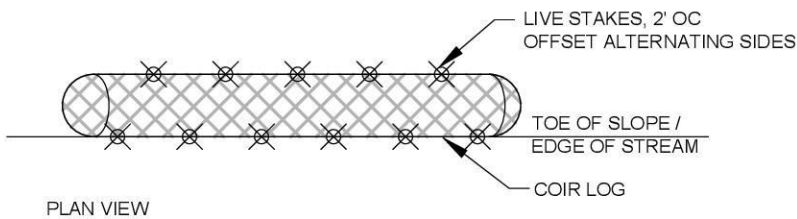
INSTALL 3" WOOD CHIP MULCH SEE SHEETS L-01, L-02 FOR LOCATIONS
 4' OC TRIANGULAR SPACING FOR SHRUBS
 TREE OR SHRUB PLANTING, TYP

RESTORATION PLANTING
 NO SCALE

3
 L-01, L-02



SECTION VIEW



PLAN VIEW

COIR LOG PLANTING
 NO SCALE

4
 L-01, L-02

LEGEND

- EROSION CONTROL BLANKET
- COIR LOG
- WOOD CHIP MULCH

10/15/2024 3:28:18 PM - U:\PSO\PROJECTS\CLIENTS\2577-TETRA\TCH\563-2577-028 35TH AVE SE DRAINAGE IMPROVEMENTS\PH\2999\SC\ADD\DWG\PS2577028-LS.DWG - JENS SWENSON

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 SEATTLE, WASHINGTON 98121
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Parametrix
 719 2nd Avenue, Suite 200 • Seattle, WA 98104
 Ph: 206.394.3700

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CITY OF BOTHELL
 35TH AVE SE DRAINAGE IMPROVEMENTS
 RESTORATION
 LANDSCAPING
 DETAILS

Project No.: 100-WRT-T40226
 Designed By: JJC
 Drawn By: JJC
 Checked By: JRS



L-03

Bar Measures 1 inch

