



THE CORPORATION OF  
THE CITY OF VERNON

POLSON PARK NATURALIZATION  
REACH 1

ISSUED FOR PROPOSAL

NOVEMBER 7, 2023

Project Number: 111710119

Contract Number: 21-84-INF

**DRAWING LIST**

**GENERAL**

- G001 COVER
- G002 DRAWING LIST & PROJECT LOCATION
- G003 LEGEND
- G004 GENERAL NOTES & MATERIAL SIZING

**CIVIL**

- C101 KEY PLAN
- C102 EXISTING SITE PLAN
- C103 PROPOSED SITE PLAN
- C111 REMOVALS PLAN
  
- C201 CHANNEL PLAN / PROFILE - REACH 1 CHANNEL TIE-IN
- C202 CHANNEL PLAN / PROFILE STA 2+280 - 2+450
- C203 CHANNEL PLAN / PROFILE STA 2+450 - 2+520
- C210 PEDESTRIAN BRIDGE PLAN / PROFILE
- C220 PATHWAY PLAN / PROFILE STA 1+345 - 1+380
- C221 PATHWAY PLAN / PROFILE STA 1+380 - 1+510
- C222 GRAVEL PATHWAY PLAN / PROFILE STA 1+000 - 1+085
- C240 STORM SECTIONS / DETAILS

- C301 CHANNEL SECTIONS
- C302 CHANNEL SECTIONS

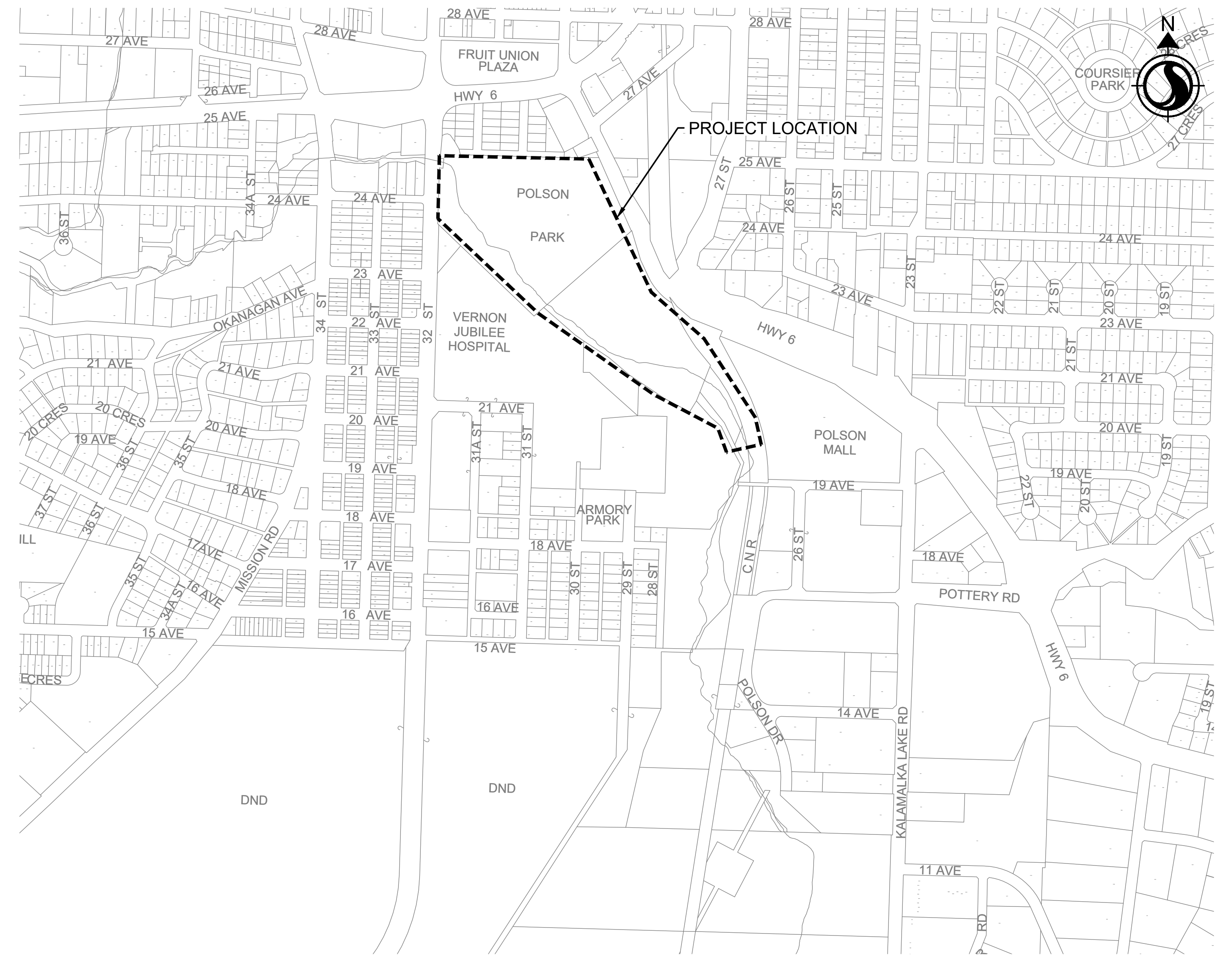
- C501 TYPICAL CHANNEL DETAILS
- C502 TYPICAL CHANNEL DETAILS
- C503 TYPICAL CHANNEL DETAILS
- C504 TYPICAL CHANNEL DETAILS

- C601 PLANTING PLAN
- C602 PLANTING DETAILS
- C603 PLANTING DETAILS

- C701 TRAFFIC MANAGEMENT PLAN

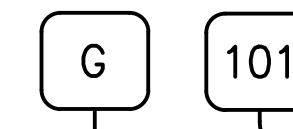
**STRUCTURAL**

- S001 BRIDGE GENERAL NOTES
- S002 BRIDGE GENERAL ARRANGEMENT, ELEVATION AND DETAILS



**LOCATION PLAN**

**DRAWING NUMBER DESIGNATION**



**DISCIPLINE DESIGNATORS**

G	GENERAL
C	CIVIL
L	LANDSCAPE
I	IRRIGATION
E	ELECTRICAL

**DRAWING SEQUENCE**

000	- GENERAL (SYMBOLS, LEGEND, NOTES, ETC.)
100	- PLANS (HORIZONTAL VIEWS)
200	- ELEVATIONS (VERTICAL VIEWS)
300	- SECTIONS (TYPICAL SECTION VIEWS)
400	- GEOMETRIC VIEWS (DETAILED ROAD GEOMETRIC PLANS AND TABLES)
500	- SECTIONS AND DETAILS (SECTIONAL VIEWS, WALL SECTIONS, DETAILS)
600	- PAVEMENT MARKINGS AND SIGNAGE PLANS
700	- TRAFFIC MANAGEMENT PLANS

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01.11.2023

ISSUE No.	DATE	DESIGNED	DRAWN	CHECKED	DESCRIPTION
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V: N/A

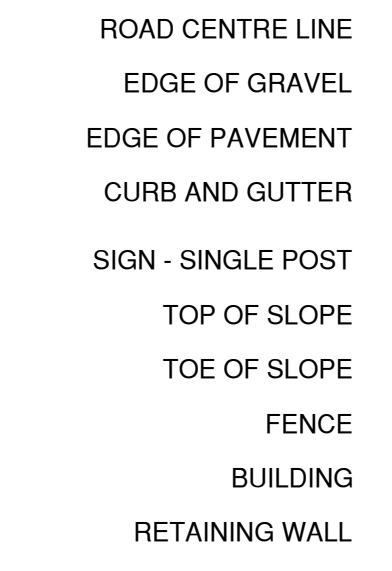
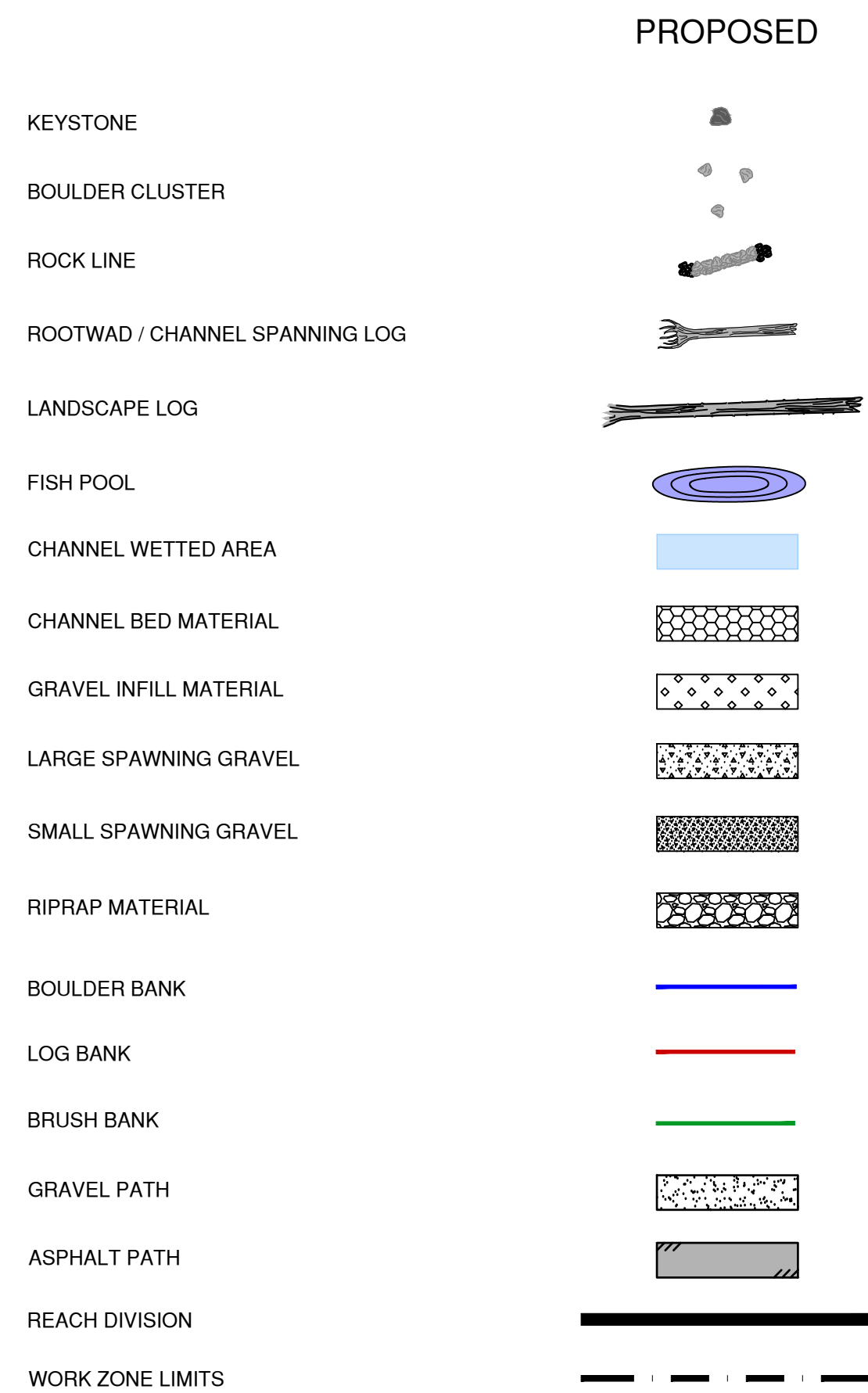
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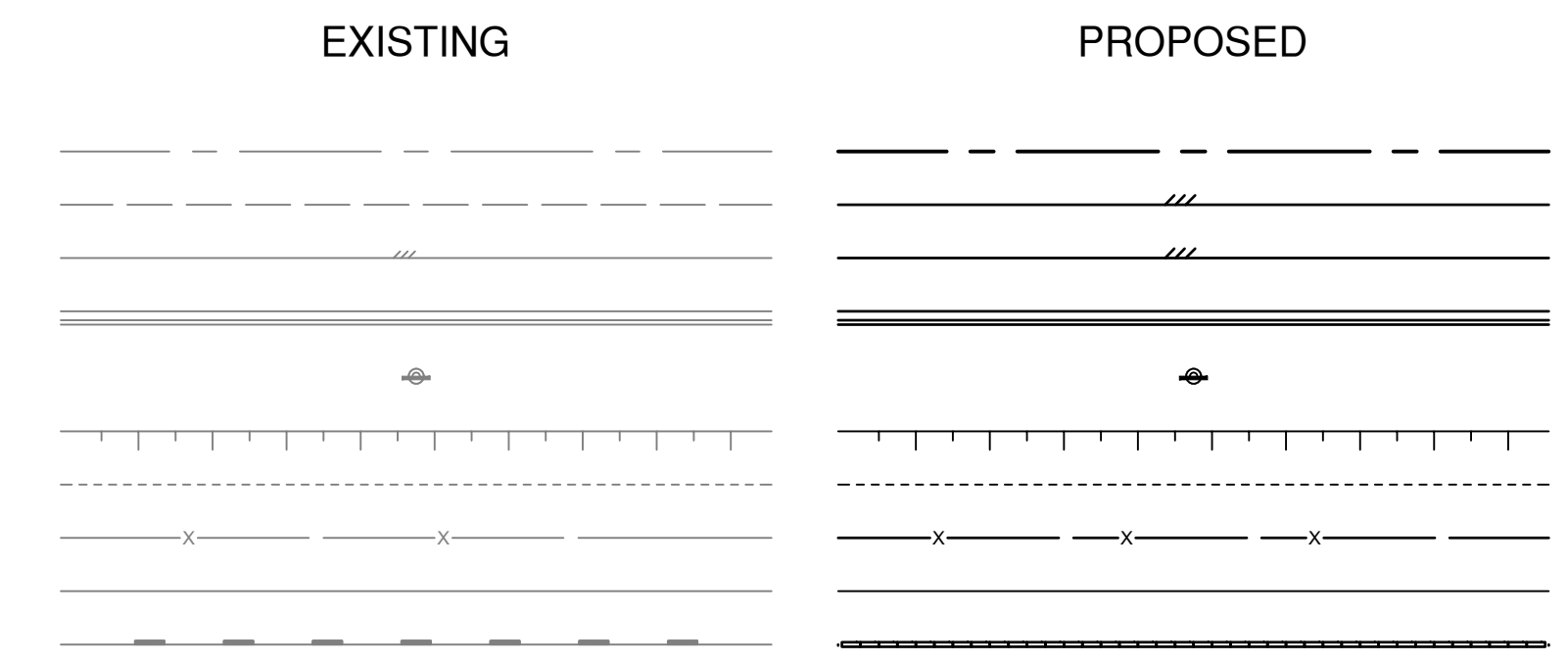
**POLSON PARK NATURALIZATION**  
**REACH 1**

**DRAWING NUMBER**  
G002

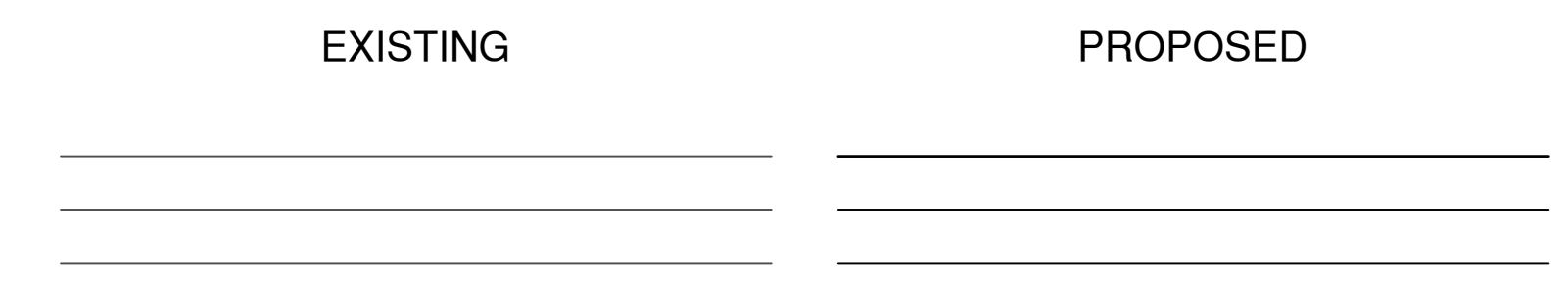
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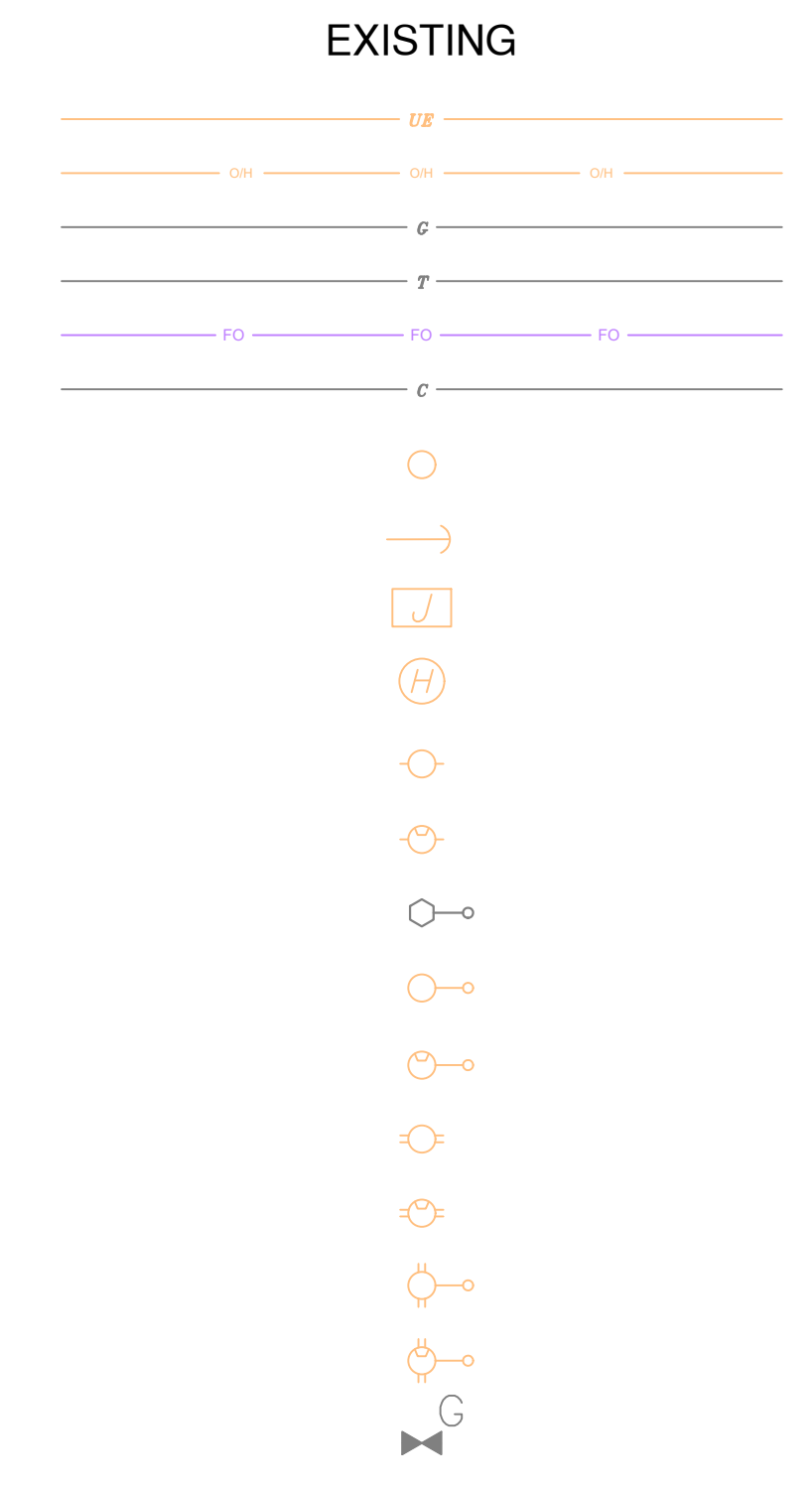
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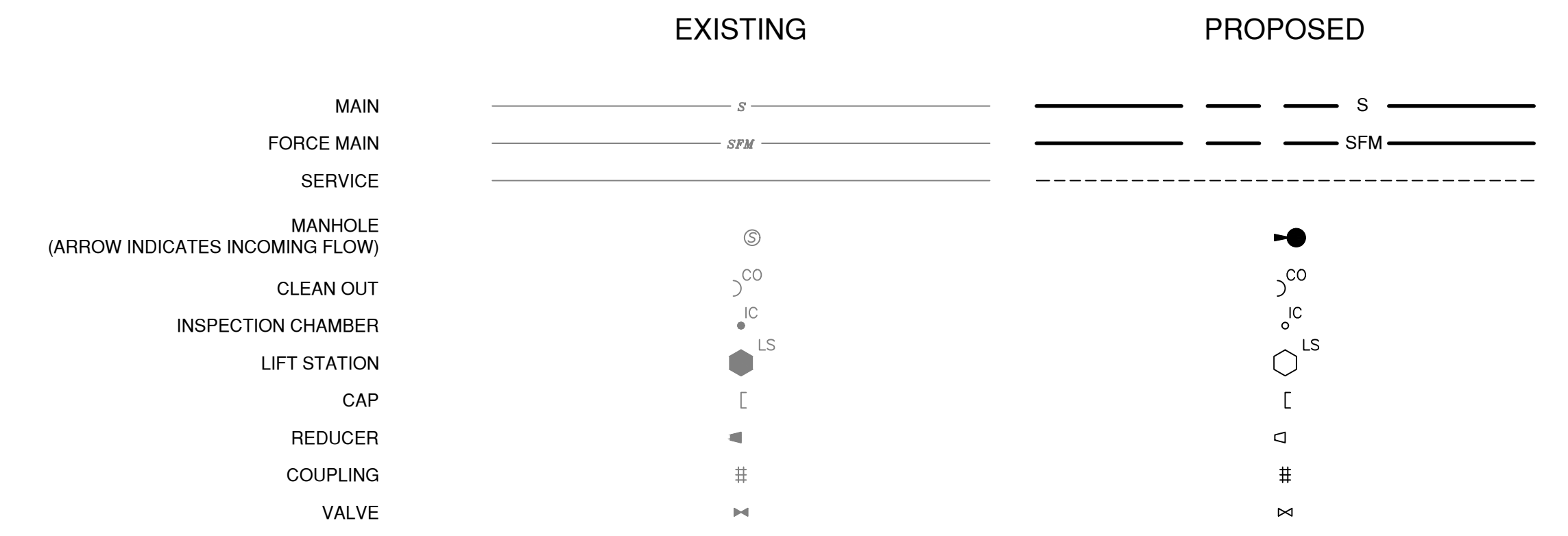
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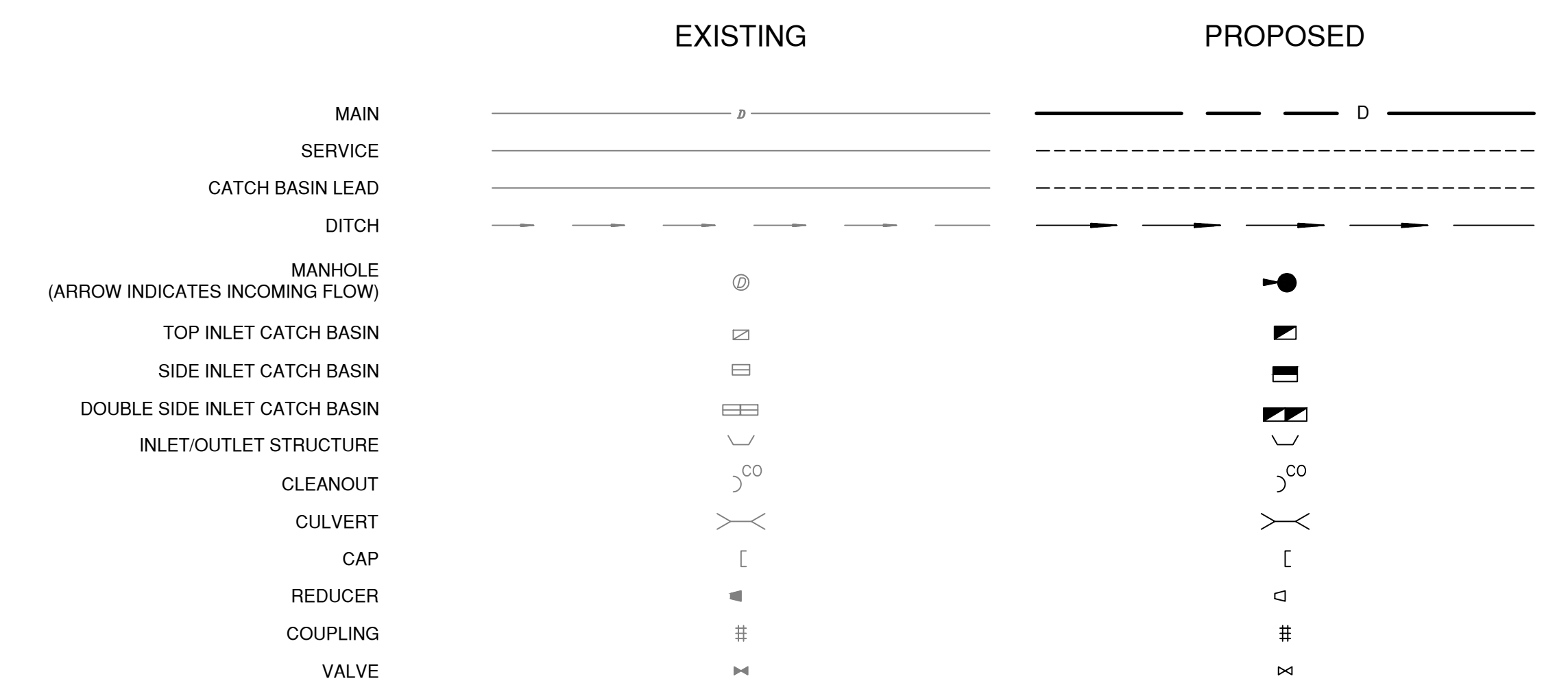
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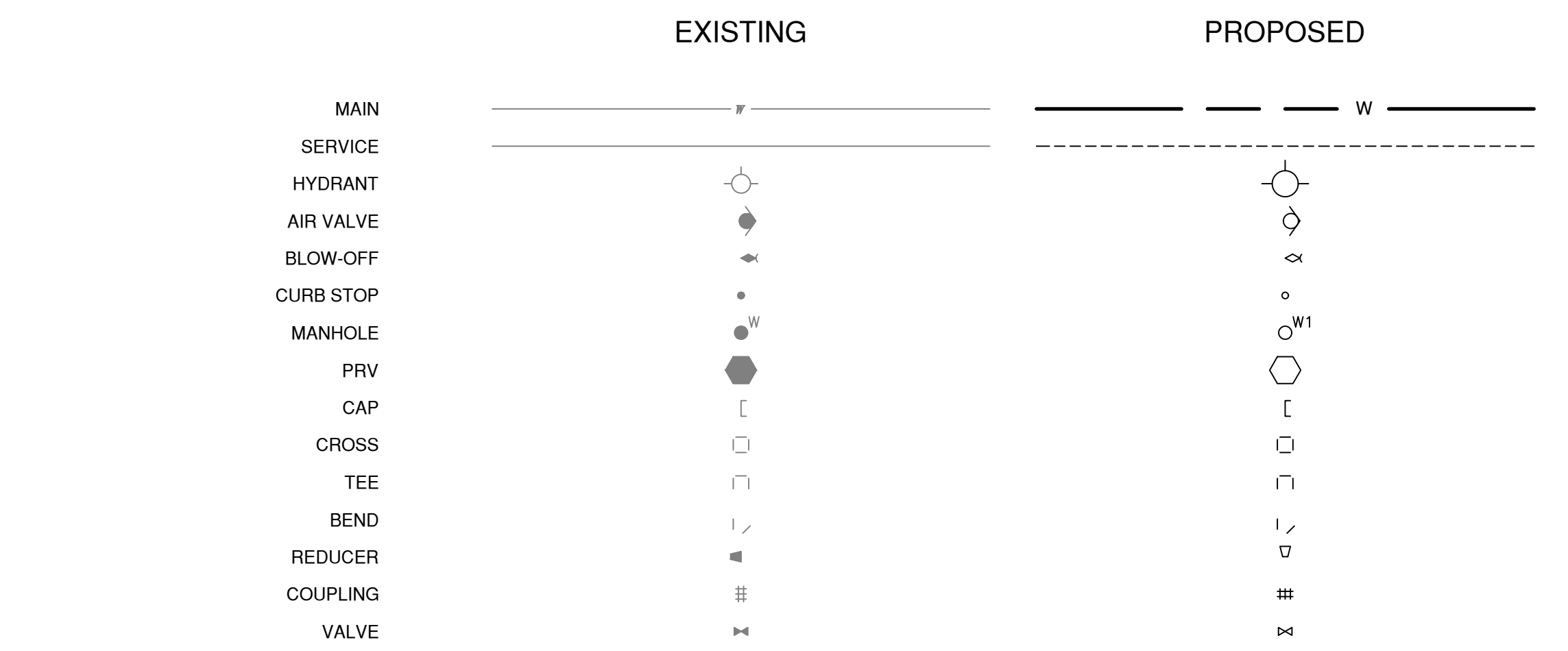
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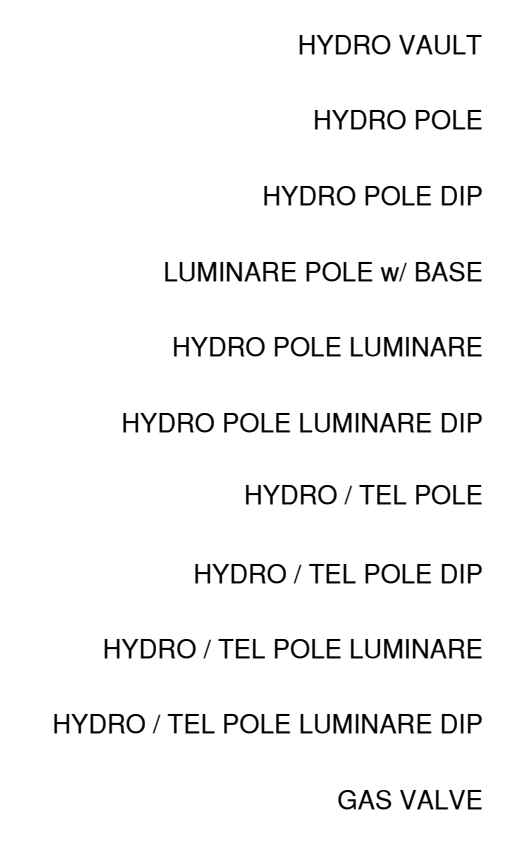
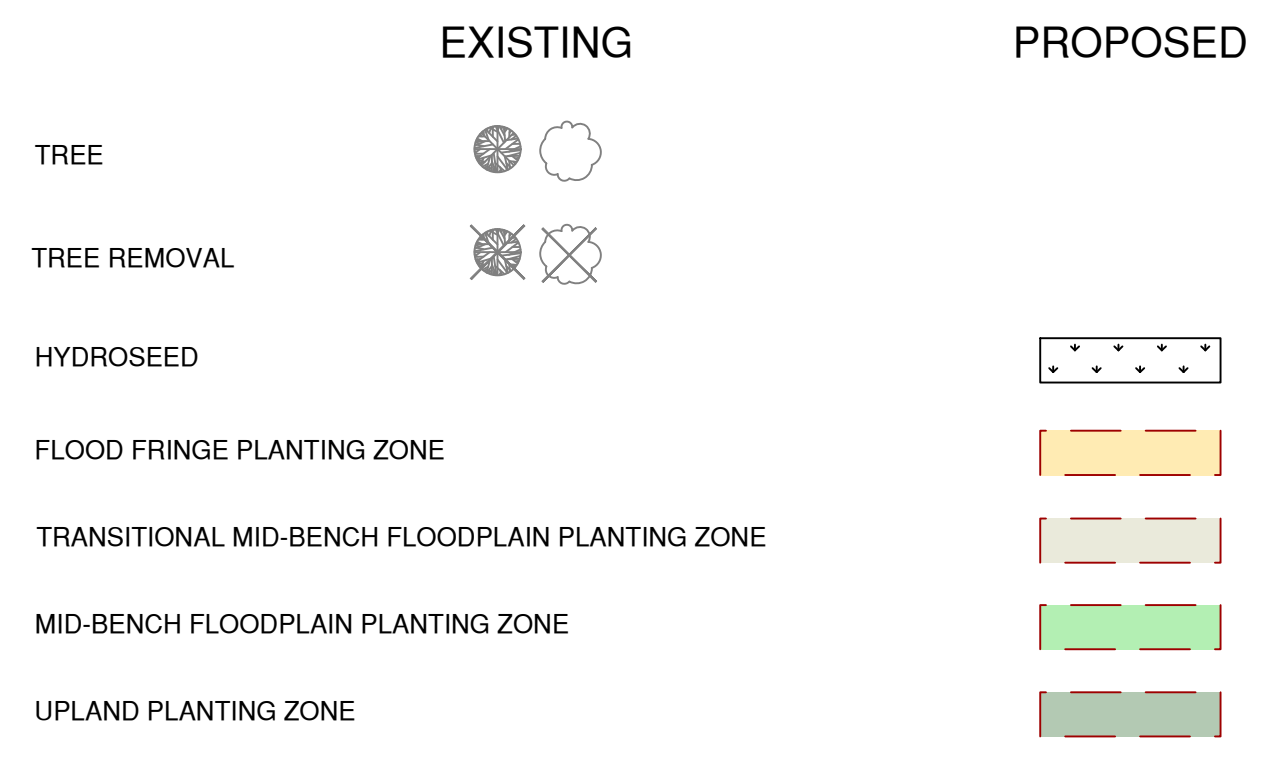
### STORM



### WATER



### LANDSCAPE



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01.11.2023

ISSUE No.	DATE	DESIGNED	DRAWN	CHECKED	DESCRIPTION
0	23/05/05	LB/IB	JJ	SK	ISSUED FOR PROPOSAL



**SCALE**  
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V: N/A

**SHEET**  
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**TITLE**  
**LEGEND**

**POLSON PARK NATURALIZATION**  
**REACH 1**

**DRAWING NUMBER**  
G003



GENERAL CONSTRUCTION NOTES

- 1. THESE DRAWINGS FORM PART OF A SET AND SHOULD NOT BE SEPARATED. THESE DRAWINGS ARE INTENDED TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS IN THE SET... 2. ALL DIMENSIONS ARE IN METRES AND MILLIMETRES UNLESS OTHERWISE NOTED... 3. CONTRACTOR IS RESPONSIBLE TO CONFIRM THE LOCATION OF ALL UTILITIES ON SITE PRIOR TO CONSTRUCTION...

- 5. PROVIDE CUTS IN THE EXISTING CONCRETE EMBANKMENT STABILIZATION AS OUTLINED IN THE PROJECT DOCUMENTS. CONTRACTOR SHALL NOT IMPACT OR UNDERMINE CONCRETE EMBANKMENT STABILIZATION ADJACENT TO STRUCTURE FOOTINGS WHEN REMOVING OTHER SECTIONS.

TREE PROTECTION NOTES

- 1. ALL EXISTING TREES ARE TO REMAIN UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED BY CONTRACT ADMINISTRATOR.

TREE PROTECTION FENCING

- 2. TREE PROTECTION FENCING MAY BE REQUIRED FOR ALL TREES AND/OR SIGNIFICANT STANDS OF EXISTING TREES WITHIN 6.0m OR LESS FROM THE LIMITS OF CONSTRUCTION... 3. PROTECTIVE FENCE IS TO BE INSTALLED PRIOR TO DEMOLITION OR OTHER SITE WORK AND MAINTAINED THROUGHOUT CONSTRUCTION UNTIL LANDSCAPE CONSTRUCTION IS FINISHED...

TREE PROTECTION ZONE (TPZ)

- 5. TREE PROTECTION ZONES (TPZ) WILL BE IDENTIFIED BY CONTRACTOR AND VERIFIED IN FIELD BY PROJECT ENGINEER AND FENCED... 6. AREAS WITHIN THE DRIPLINE OF THE TREES ARE NOT TO BE USED FOR ANY TYPE OF STORAGE (E.G. STORAGE OF DEBRIS, SURPLUS SOILS)... 7. IF PROTECTION TO THE EDGE OF DRIPLINE IS NOT FEASIBLE TREE PROTECTION MEASURES TO BE REVIEWED ON SITE WITH THE CONTRACT ADMINISTRATOR...

PRUNING OF PROTECTED TREES

- 10. IN THE EVENT THAT IT IS NECESSARY TO REMOVE LIMBS OR PORTIONS OF TREES TO ACCOMMODATE CONSTRUCTION, CONTRACT ADMINISTRATOR IS TO BE INFORMED AND THE REMOVAL IS TO BE EXECUTED CAREFULLY AND IN ACCORDANCE WITH PROPER ARBORICULTURAL TECHNIQUES BY A CERTIFIED ARBORIST... 11. DURING EXCAVATION OPERATIONS IN WHICH ROOTS ARE AFFECTED, THE CONTRACTOR IS TO PRUNE ALL EXPOSED ROOTS CLEANLY. PRUNED ENDS TO POINTED OBLIQUELY DOWNWARDS...

COMMUNICATION PLAN

- 12. THE CONTRACTOR IS TO IMPLEMENT A COMMUNICATION PLAN TO ENSURE TREE PROTECTION REQUIREMENTS ARE FOLLOWED... 13. THE CONTRACT ADMINISTRATOR WILL OVERSEE TREE PROTECTION REQUIREMENTS. THE CONTRACT ADMINISTRATOR WILL BE PROVIDED CONTACT INFORMATION FOR THE SITE SUPERVISOR AND ALL REPLACEMENTS SHOULD THE MAIN SITE SUPERVISOR NOT BE AVAILABLE...

CREEK DIVERSION NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY, INSTALLATION, MAINTENANCE AND MODIFICATION OF THE ISOLATION AND CREEK DIVERSION MEASURE REQUIRED TO FACILITATE CONSTRUCTION... 2. THE CITY HAS IDENTIFIED TWO FEASIBLE OPTIONS FOR CREEK DIVERSION... 2.1. DAM THE CREEK IMMEDIATELY UPSTREAM OF THE WORKS AND INSTALL A GRAVITY DIVERSION CONSISTING OF PIPE AND LINED CHANNEL...

- 10. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING CREEK FLOWS UPSTREAM OF THE SITE. IF THE IMPOUNDED DEPTH OF WATER MEETS OR EXCEEDS 1.2m, CONTRACTOR IS TO NOTIFY THE CONTRACT ADMINISTRATOR AND TAKE MEASURES TO ENSURE THE SAFETY OF THE SITE AND CONSTRUCTION AREA.

GRADING NOTES

- 1. ESTABLISH POSITIVE DRAINAGE THROUGHOUT THE SITE... 2. REHABILITATED SOFT LANDSCAPE AREAS SHALL HAVE A GRADIENT NO LESS THAN 2.0% AND NO MORE THAN 33% - UNLESS OTHERWISE NOTED ON DRAWINGS... 3. IF GRADES WITHIN THE DRIPLINE OF AN EXISTING TREE ARE TO BE CHANGED, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT THE CONTRACT ADMINISTRATOR PRIOR TO GRADING WITHIN THE DRIPLINE SO THAT PRECAUTIONS TO PRESERVE THE TREE CAN BE DETERMINED...

ROCK/MATERIAL PLACEMENT NOTES

- 1. PLACE RIPRAP BEDDING, RIPRAP AND BOULDER AT THE LOCATIONS, AND TO THE LINES, GRADES, AND ELEVATION SPECIFIED IN THE DRAWINGS... 2. RECEIVING SURFACES ARE TO CONSIST OF NATIVE GRAVELS. IF THIS IS NOT THE CASE, THE CONTRACTOR IS TO OVER-EXCAVATE 100mm AND PLACE 100mm OF GRAVEL INFILL MATERIAL BEFORE PLACING CHANNEL BED MATERIAL... 3. CONCRETE AND OTHER DELETERIOUS MATERIALS MUST BE REMOVED FROM RECEIVING SURFACES...

GRAVEL INFILL MATERIAL WASHING NOTES

- 1. GRAVEL IN VOIDS IS TO BE INSTALLED IN 50mm LIFTS WITH EACH LIFT BEING "WASHED" IN TO FILL THE VOIDS BETWEEN THE ROCKS... 2. REFER TO WATER SUPPLY NOTES FOR WASH WATER SOURCE WITH BEST PRACTICES BEING UTILIZED (E.G. FISH SCREEN ON INTAKE, REMOVAL DEBRIS FROM SCREEN, ETC.)... 3. CONTRACTOR TO ENSURE THAT THE WASHING PROCESS DOES NOT GENERATE RUNOFF THAT IMPACTS THE CREEK OUTSIDE THE WORK AREA...

WATER SUPPLY NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY WATER REQUIRED TO MEET THE MOISTURE CONDITIONS OF ALL BACKFILL MATERIALS, LANDSCAPING AND PROVIDE DUST CONTROLS AT ALL TIMES... 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADHERE TO THE CURRENT POLICIES SET FORTH BY THE PROVINCE WITH RESPECT OF WITHDRAWAL FROM WATER BODIES... 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING WATER TO MEET THE PROJECT REQUIREMENTS, ANY ASSOCIATED COSTS, PERMITS OR APPROVALS IS CONSIDERED INCIDENTAL TO THE CONTRACT.

MATERIAL SIZING

Table with 2 columns: PERCENT FINER, GRAIN SIZE (mm). Rows for Boulder Cluster Material with values 100, 450, 0, 400.

ROCK LINES

Table with 2 columns: PERCENT FINER, GRAIN SIZE (mm). Rows for Rock Lines with values 100, 715, 0, 600.

CHANNEL BED / COBBLE BOULDER MATERIAL

Table with 2 columns: PERCENT FINER, GRAIN SIZE (mm). Rows for Channel Bed material with values 100, 450, 85, 380, 50, 260, 15, 120.

GRAVEL INFILL MATERIAL

Table with 2 columns: PERCENT FINER, GRAIN SIZE (mm). Rows for Gravel Infill material with values 100, 152, 85, 102, 50, 76, 25, 25, 15, 13, 5, 2, 0, 0.0625.

SMALL SPANNING GRAVEL

Table with 2 columns: PERCENT FINER, GRAIN SIZE (mm). Rows for Small Spanning Gravel with values 100, 75, 75, 50, 0, 19.

LARGE SPANNING GRAVEL

Table with 2 columns: PERCENT FINER, GRAIN SIZE (mm). Rows for Large Spanning Gravel with values 100, 100, 75, 75, 0, 50.

CLASS 50 KG RIPRAP

Table with 2 columns: PERCENT FINER, GRAIN SIZE (mm). Rows for Class 50 kg Riprap with values 100, 565, 85, 475, 50, 330, 15, 155.

CLASS 250 KG RIPRAP

Table with 2 columns: PERCENT FINER, GRAIN SIZE (mm). Rows for Class 250 kg Riprap with values 100, 965, 85, 815, 50, 565, 15, 260.

ROOTWAYS

- FIR LOG WITH ROOT ATTACHED, 5m LONG, DIAMETER 250-350mm. ROOT WAD MINIMUM OF 800mm DIAMETER.

LOGS

- FIR LOG WITHOUT ROOT OR BRANCHES ATTACHED, 10m LONG, DIAMETER 250-350mm.

ENVIRONMENTAL NOTES

- 1. REFER TO THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP) FOR ENVIRONMENTAL MANAGEMENT REQUIREMENTS... 2. ADVISE THE ENVIRONMENTAL MONITOR FOR ADDITIONAL MITIGATIONS REQUIRED IN THE EVENT THAT UNFORSEEN ENVIRONMENTAL RISKS ARISE.

PROTECTION OF EXISTING STRUCTURES NOTES

THESE NOTES ADDRESS RESPONSIBILITIES OF THE CONTRACTOR TO PROTECT EXISTING STRUCTURES, INCLUDING, BUT NOT LIMITED TO;

- WALKWAYS, ROADS AND PARKING AREAS WITHIN POLSON PARK - HWY 97 CULVERT CROSSING - 9009 CONCRETE STORM OUTFALL... 1. IT IS RECOMMENDED THAT WHILE CONDUCTING RECONSTRUCTION WORK WITHIN 5m OF ALL STRUCTURES, THE CONTRACTOR SHOULD COMPLETE A CRACK AND DAMAGE SURVEY WHICH WOULD CONSIST OF TWO PARTS... 2. PRIOR TO STARTING CONSTRUCTION, CONTROL POINTS ARE TO BE ESTABLISHED ON THE STRUCTURES... 3. CONTRACTOR TO COORDINATE CLOSURE OF BRIDGE AND WALKWAY STRUCTURES WITH THE CITY OF VERNON WHEN WORK IS BEING COMPLETED IN THEIR VICINITY...

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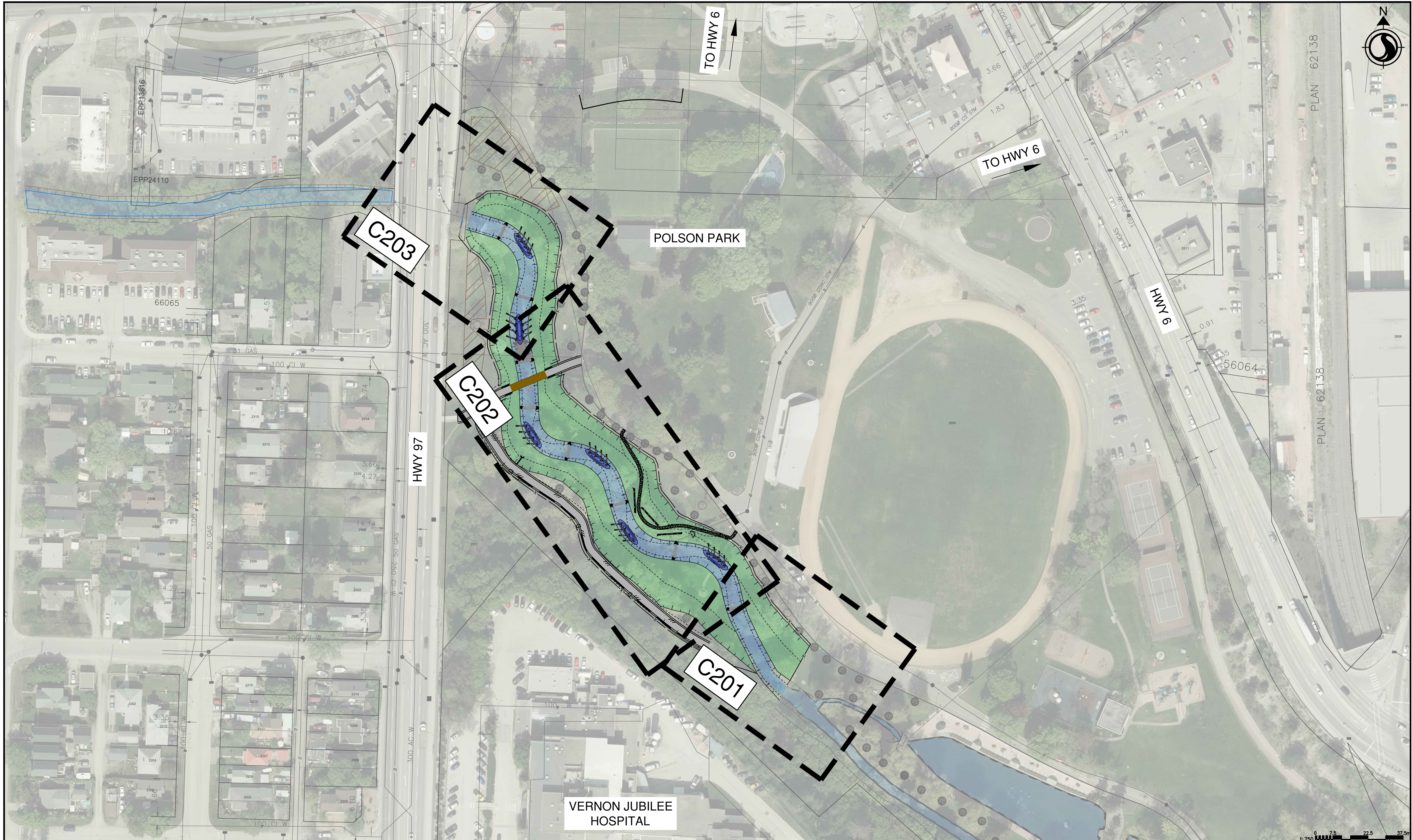
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Table with 2 rows: TITLE (GENERAL NOTES & MATERIAL SIZING) and SHEET (POLSON PARK NATURALIZATION REACH 1). Drawing number: G004.



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01.11.2023



ISSUE No.	DATE	DESIGNED	DRAWN	CHECKED	DESCRIPTION
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SHEET  
5 OF 28

TITLE  
**KEY PLAN**

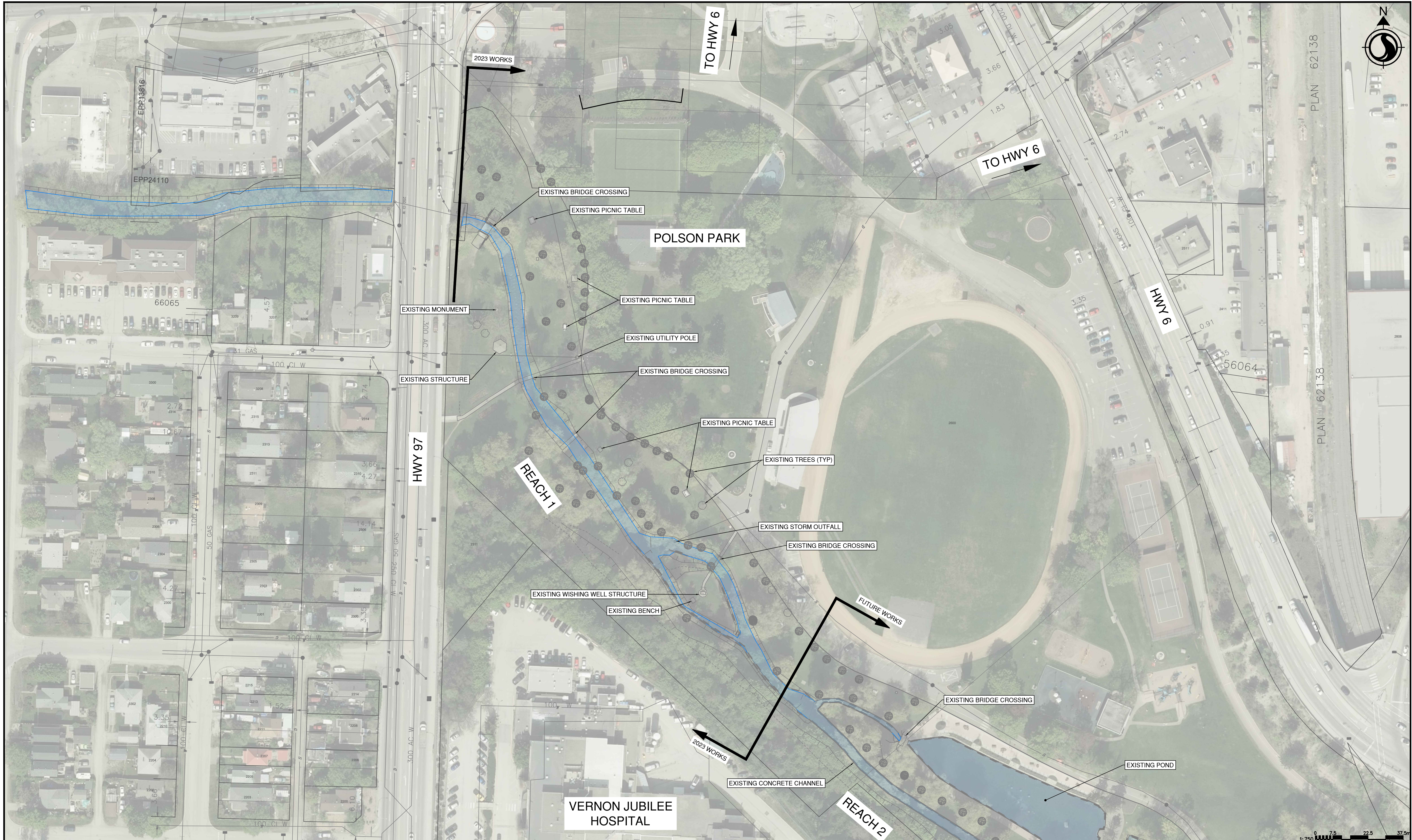
**POLSON PARK NATURALIZATION  
REACH 1**

DRAWING NUMBER  
C101



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01.11.2023



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SHEET  
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TITLE  
**EXISTING CONDITIONS SITE PLAN**

**POLSON PARK NATURALIZATION  
REACH 1**

DRAWING NUMBER  
C102





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SHEET  
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TITLE  
**PROPOSED SITE PLAN**

**POLSON PARK NATURALIZATION  
REACH 1**

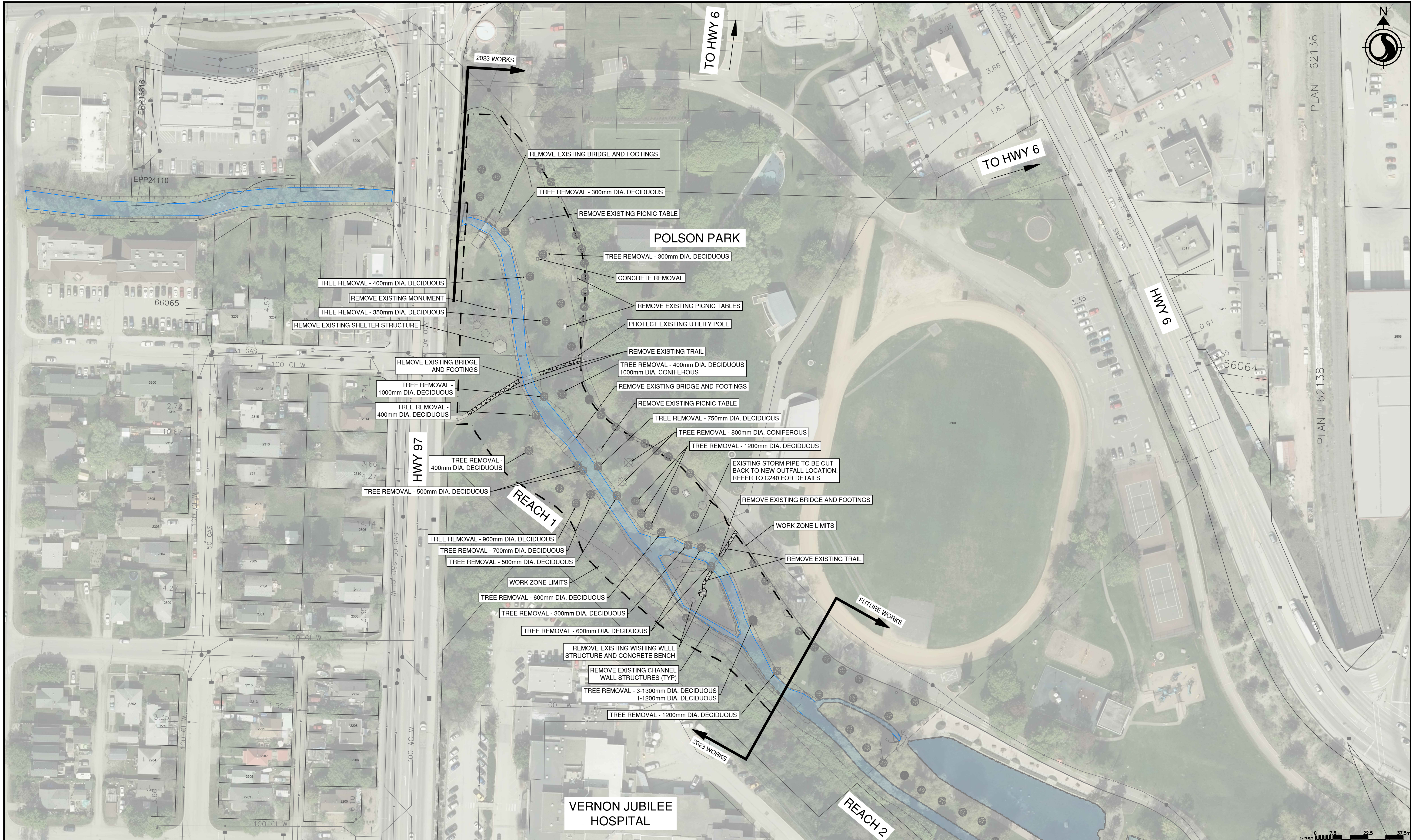
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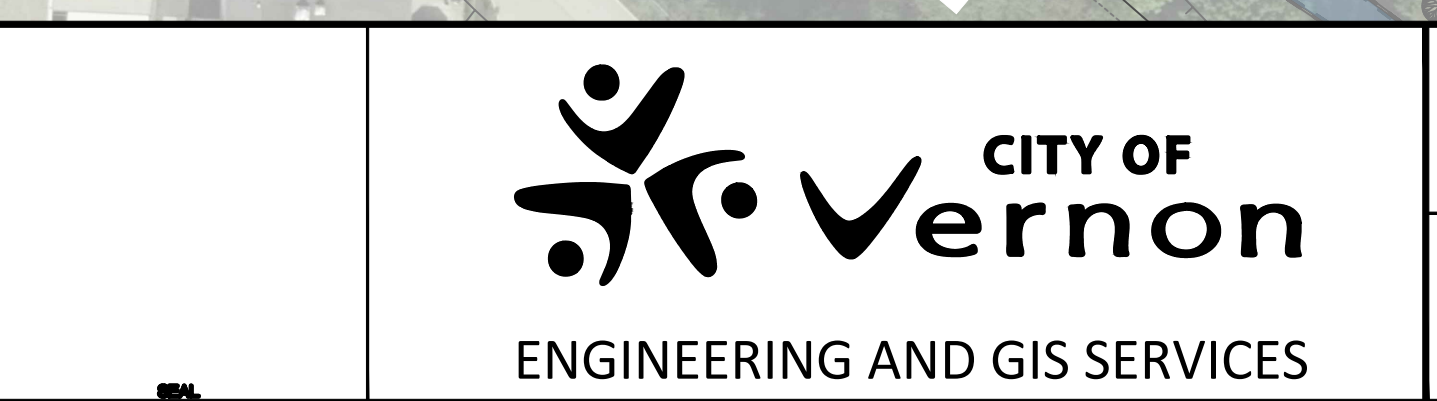


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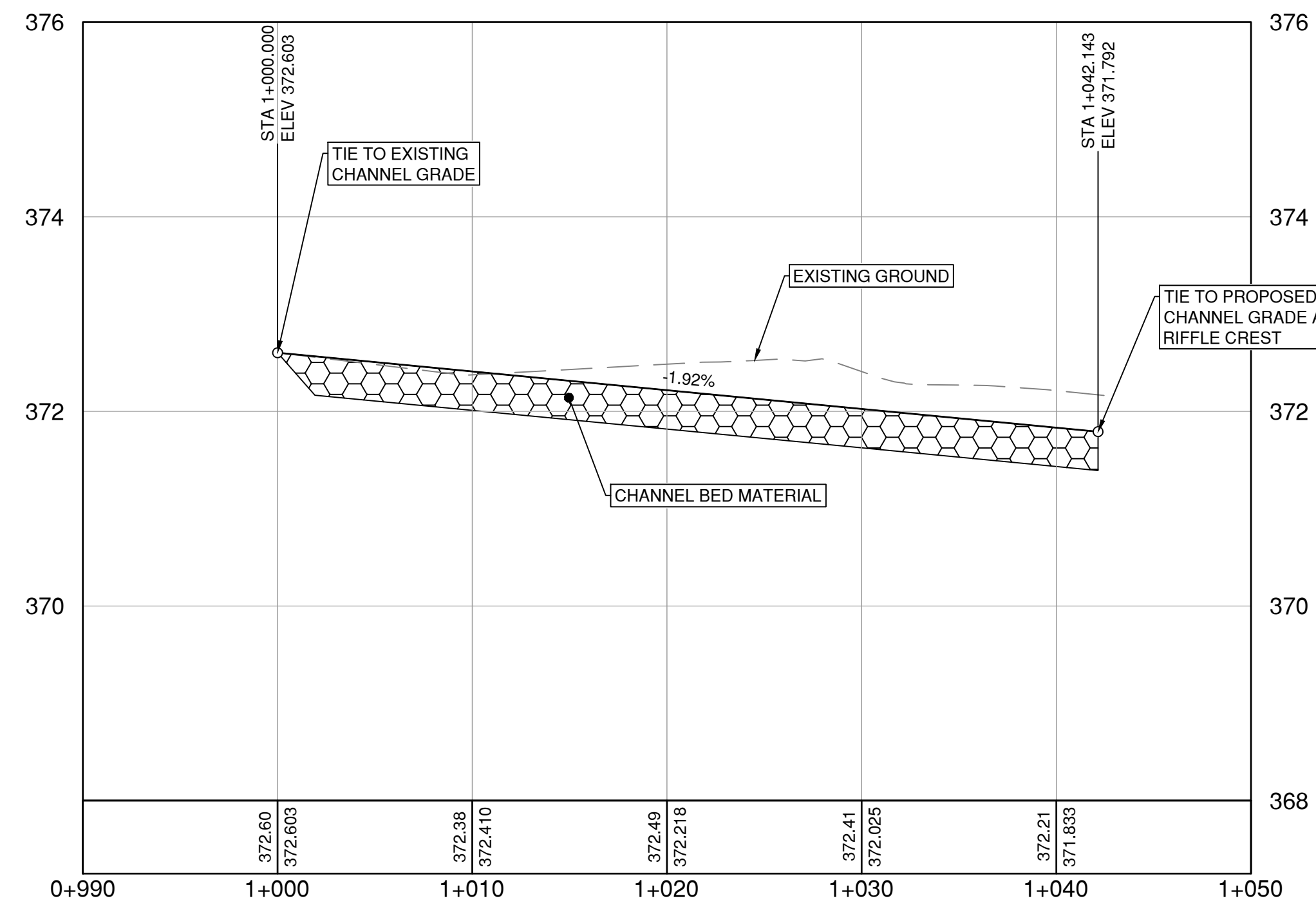
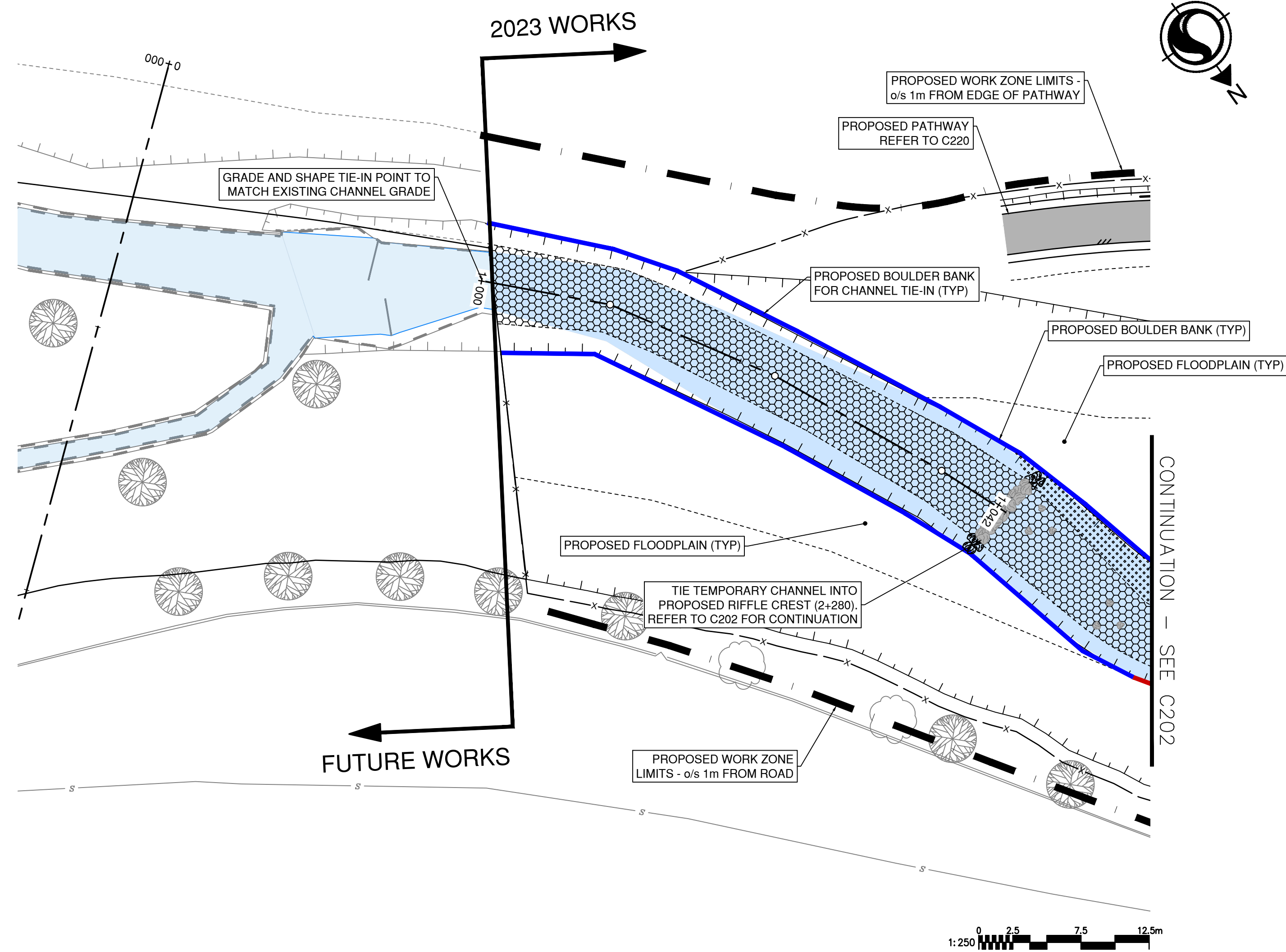
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TITLE  
**REMOVALS PLAN**

**POLSON PARK NATURALIZATION  
REACH 1**

DRAWING NUMBER  
C111





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01.11.2023

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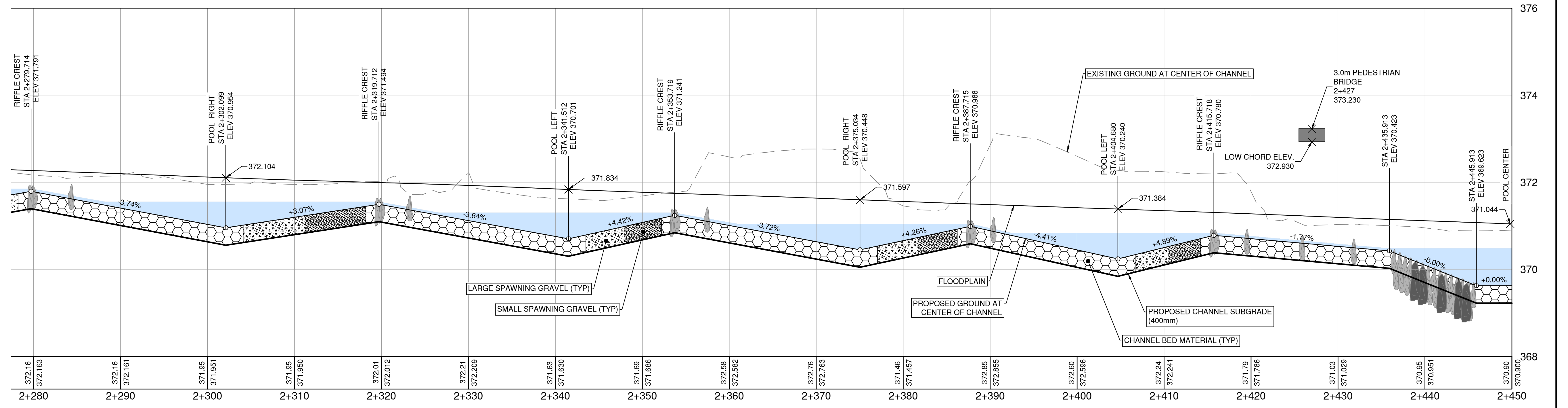
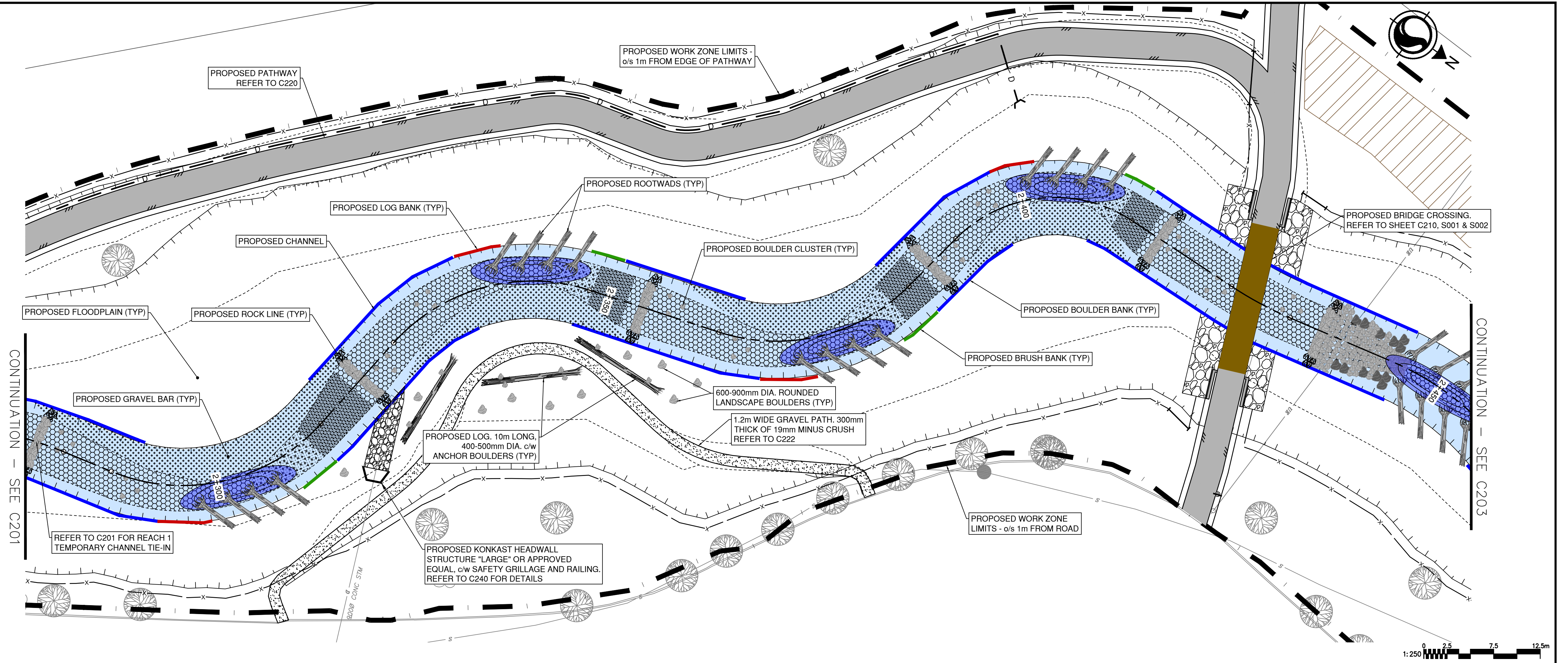
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**SHEET**  
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**TITLE**  
CHANNEL PLAN/PROFILE  
REACH 1 CHANNEL TIE-IN  
POLSON PARK NATURALIZATION  
REACH 1

**DRAWING NUMBER**  
C201





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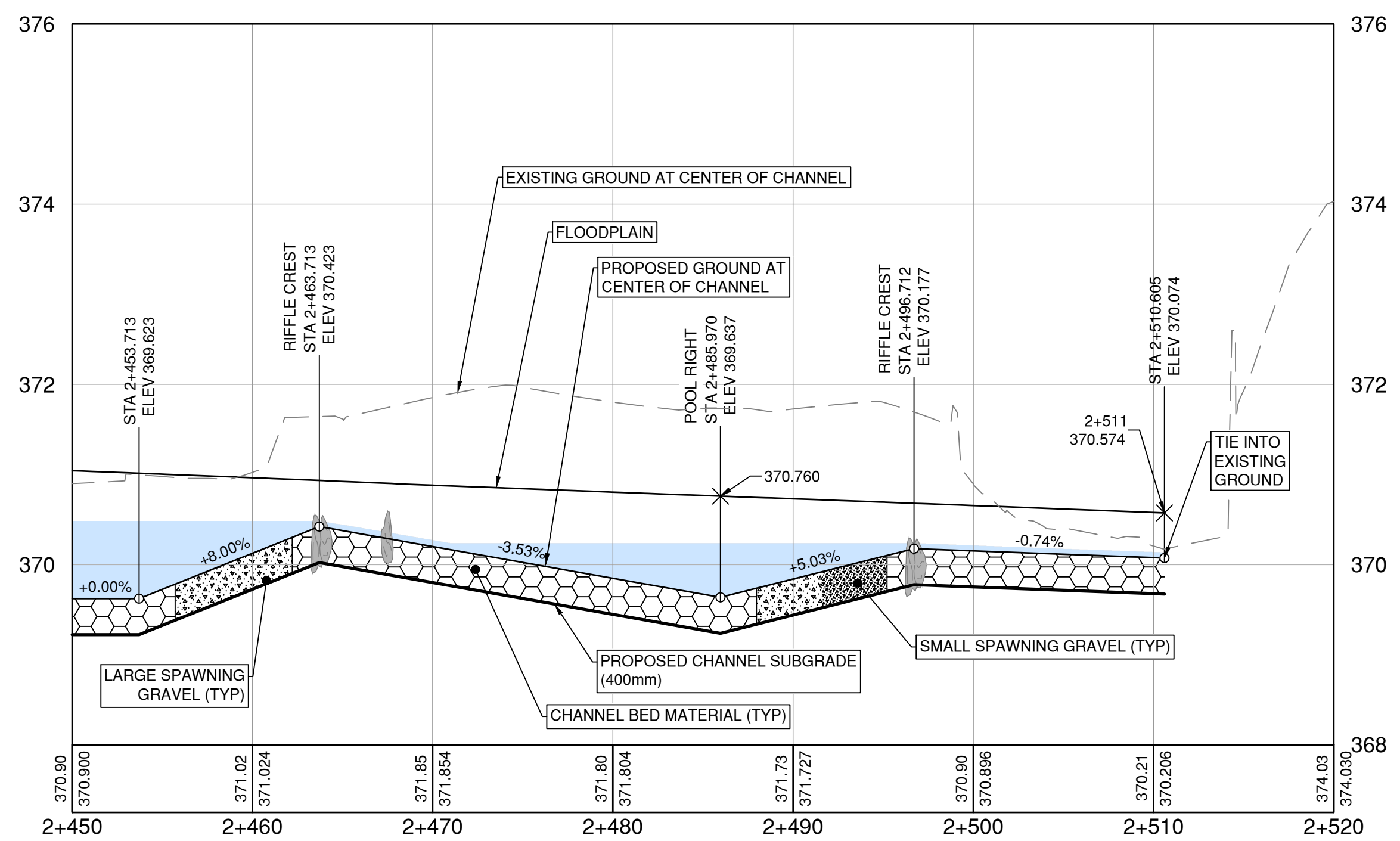
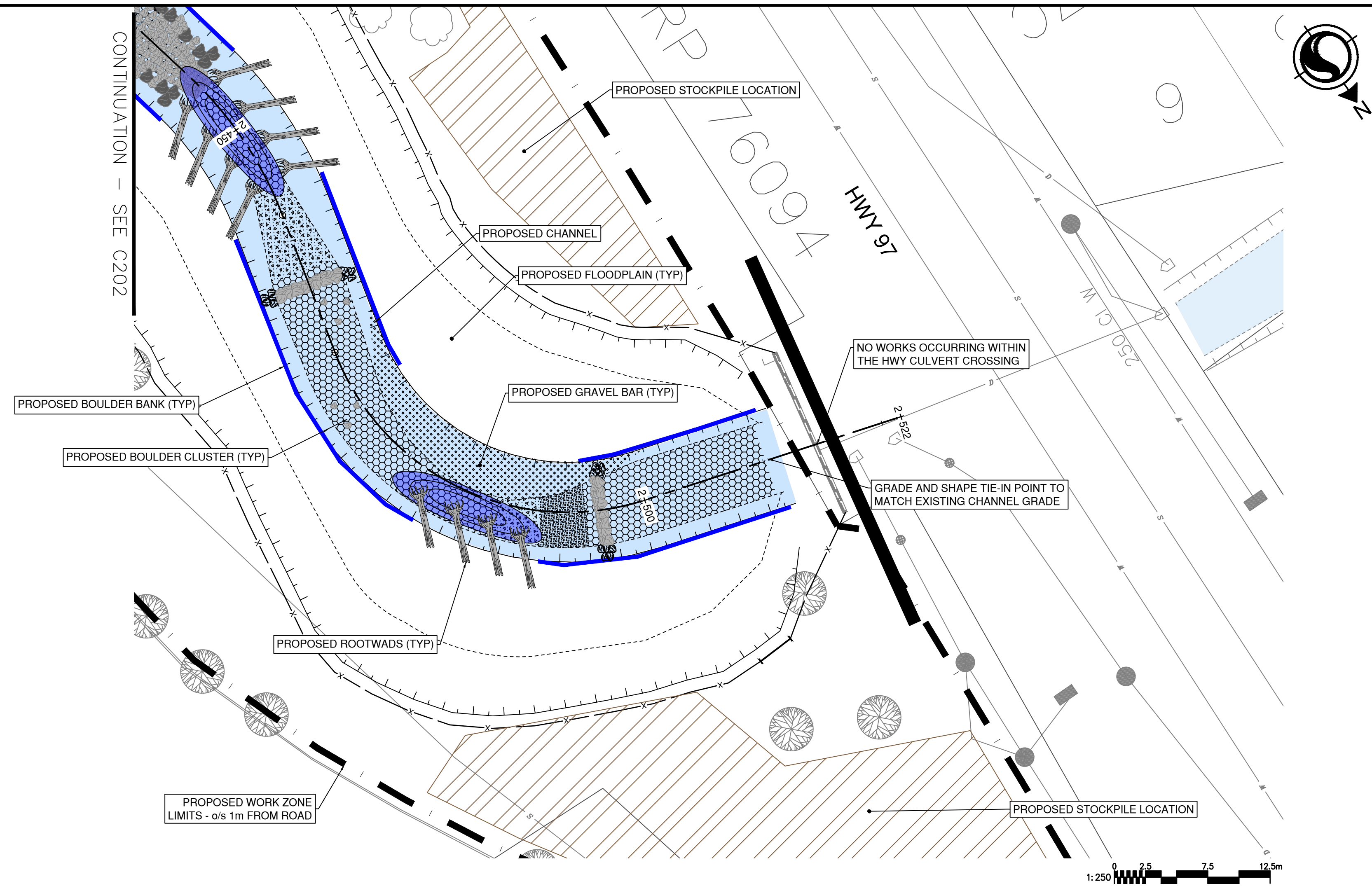
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SHEET  
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TITLE  
**CHANNEL PLAN/PROFILE**  
STA 2+280 - 2+450  
**POLSON PARK NATURALIZATION**  
REACH 1

DRAWING NUMBER  
C202





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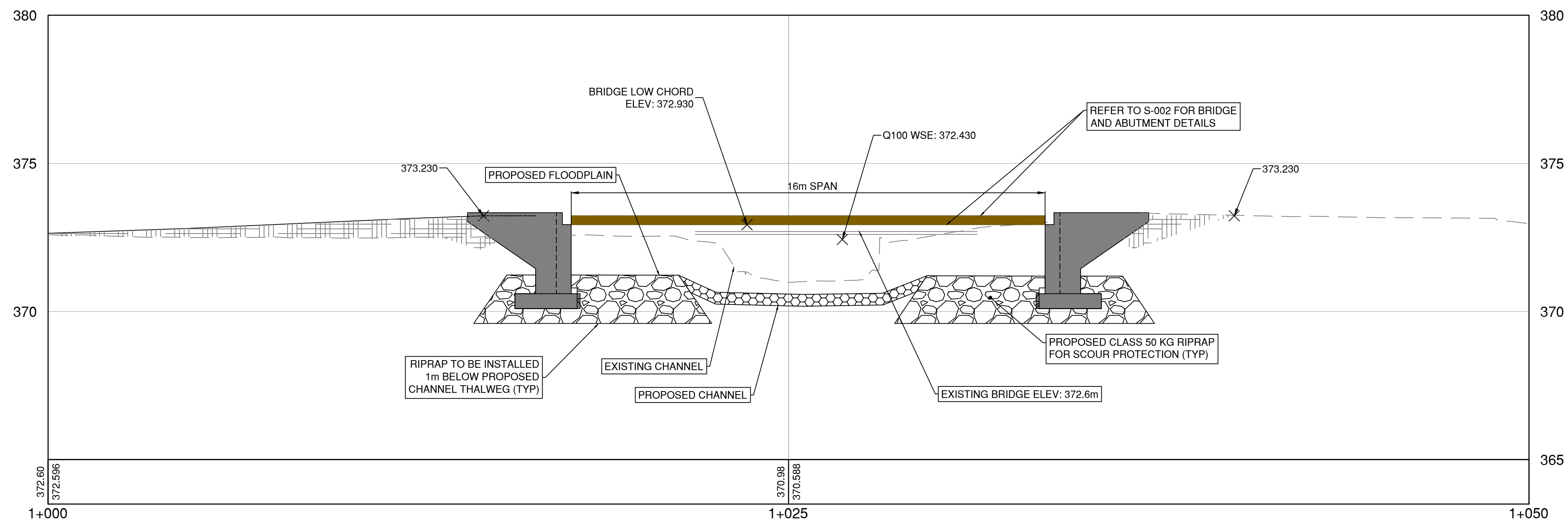
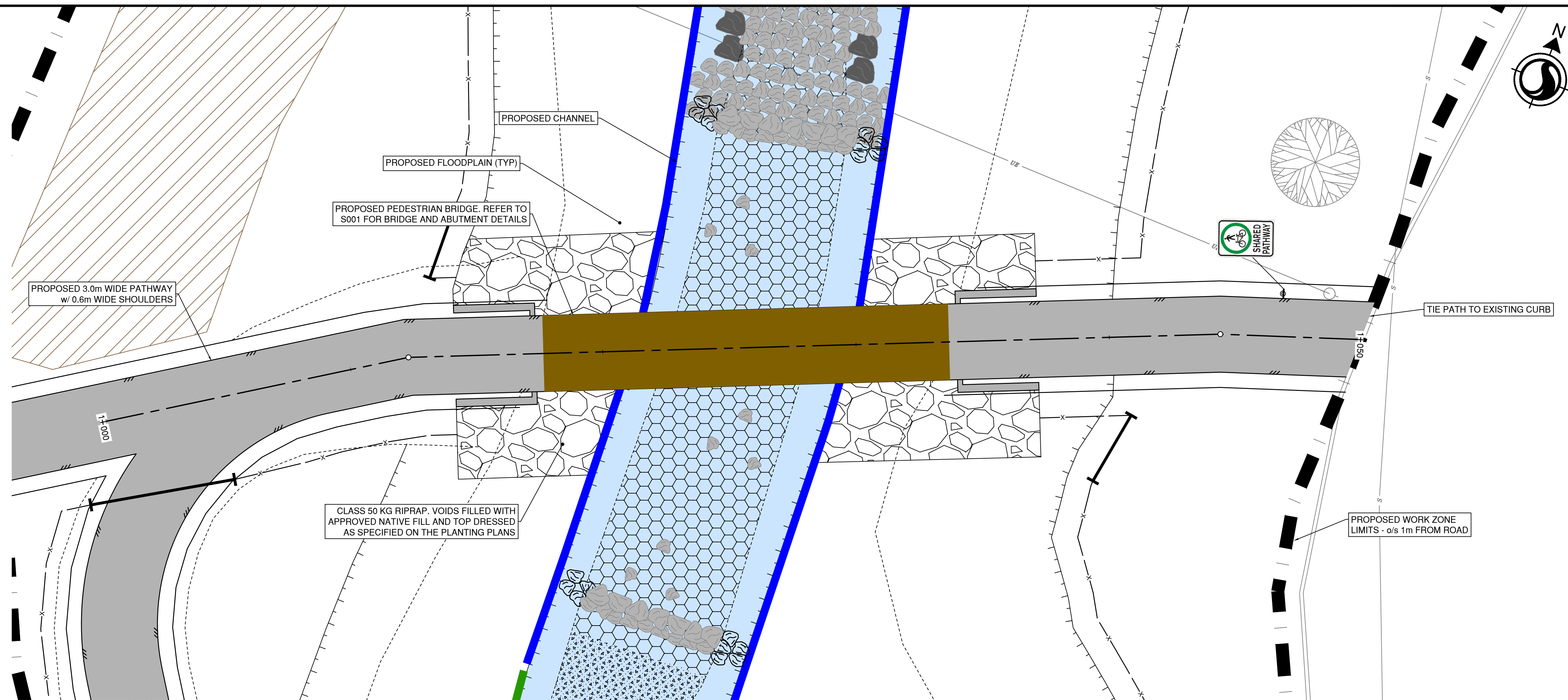
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SHEET  
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TITLE  
**CHANNEL PLAN/PROFILE**  
STA 2+450 - 2+520  
POLSON PARK NATURALIZATION  
REACH 1

DRAWING NUMBER  
C203





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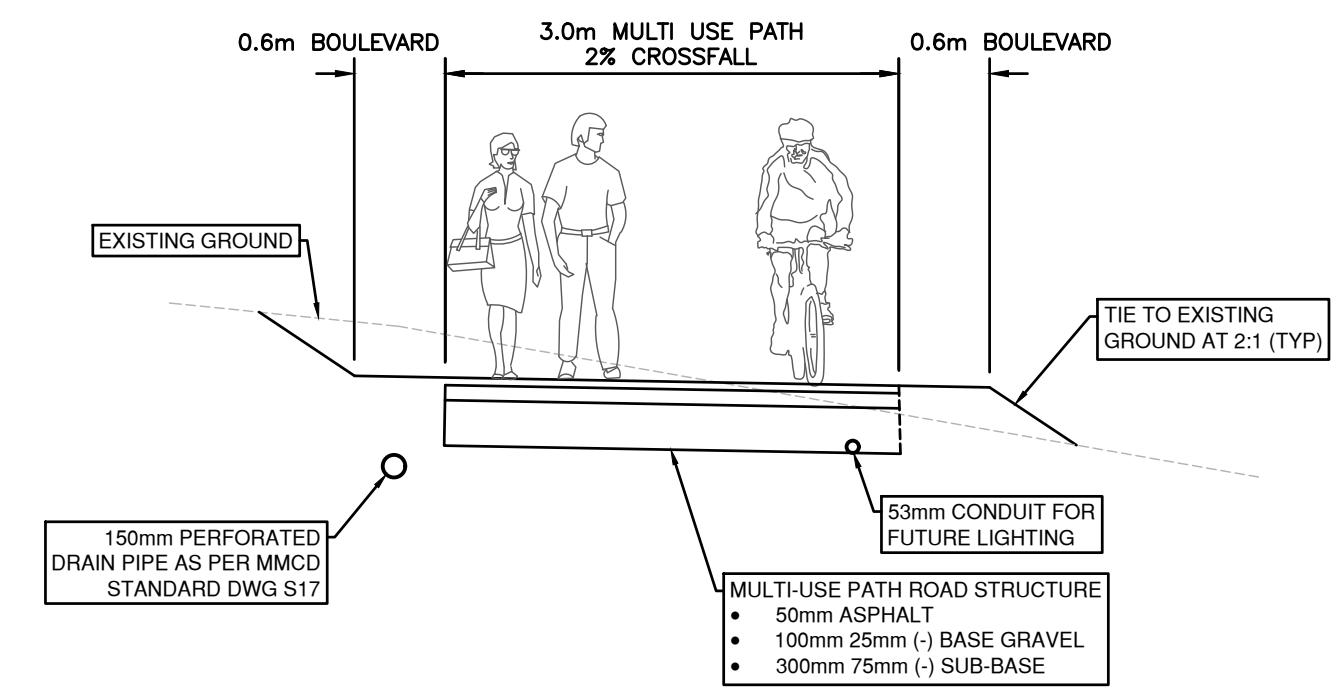
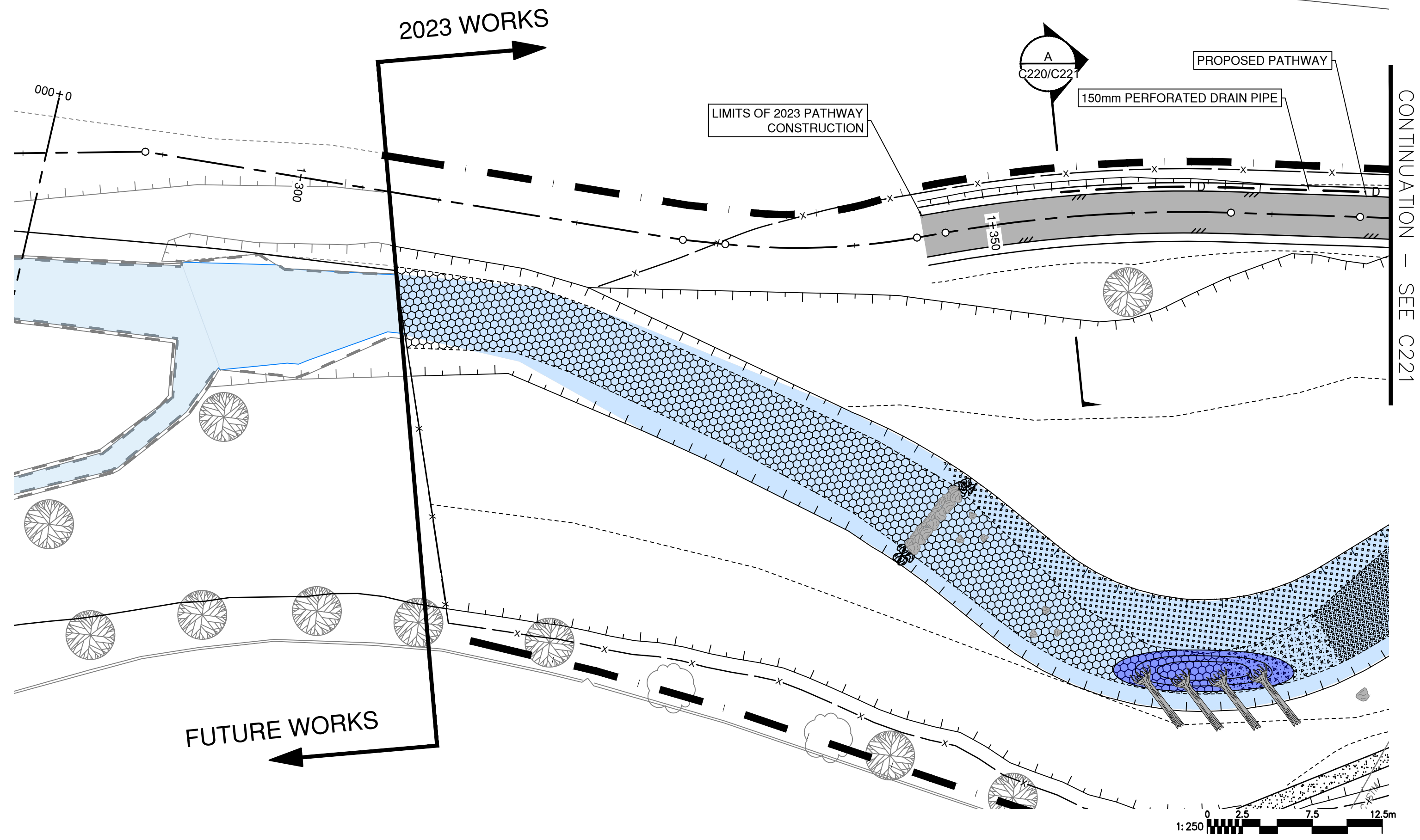
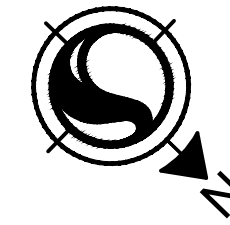
SHEET  
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TITLE  
**PEDESTRIAN BRIDGE PLAN/PROFILE**

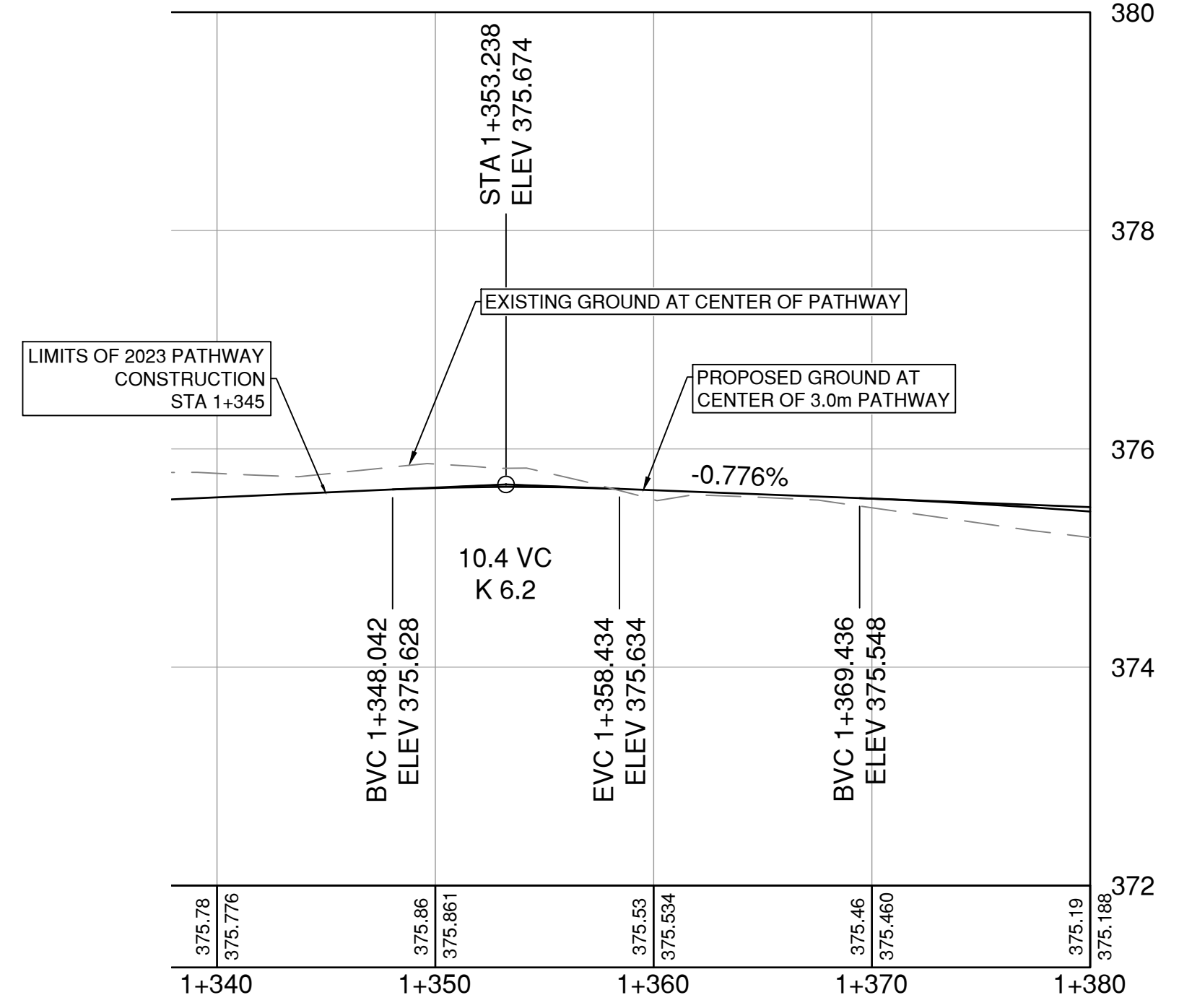
**POLSON PARK NATURALIZATION  
REACH 1**

DRAWING NUMBER  
C210





**A | PATHWAY SECTION**  
C220/C221 | 1:50



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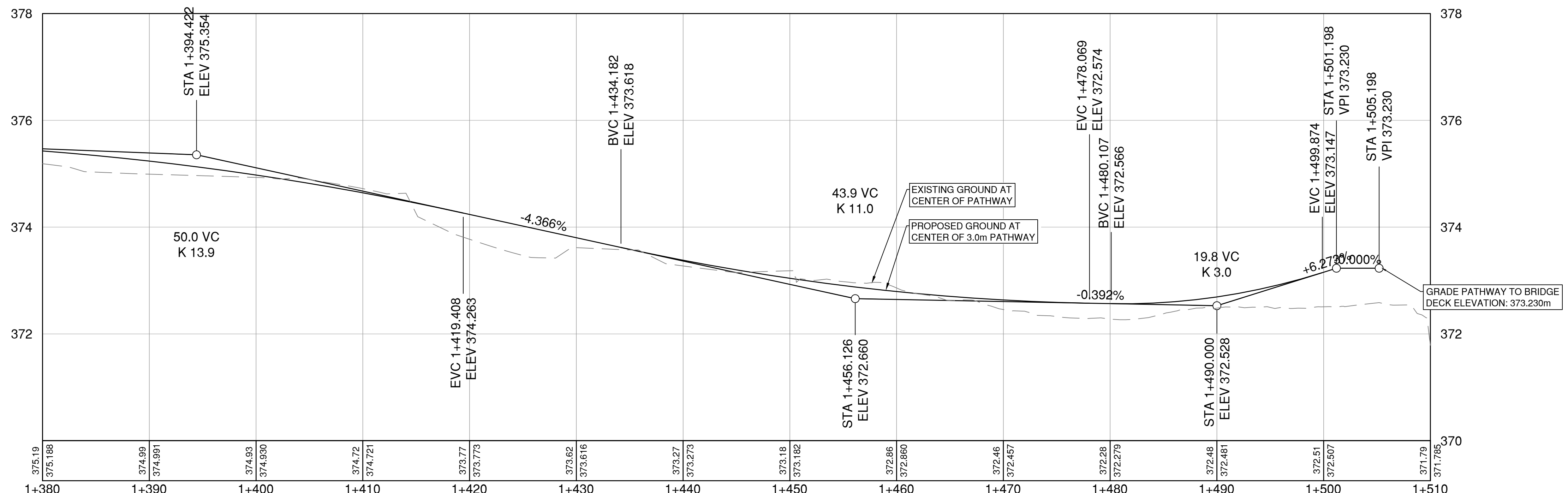
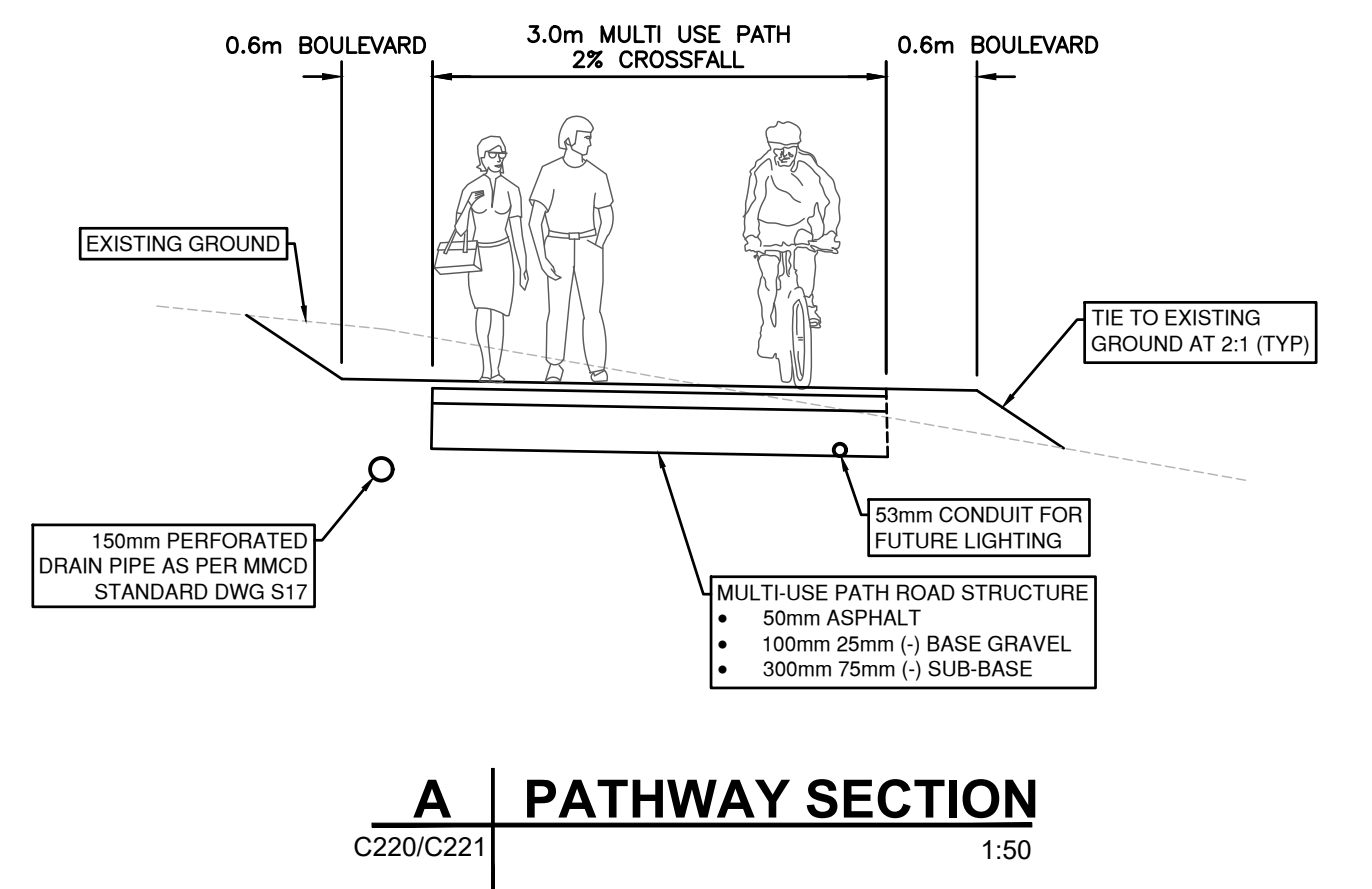
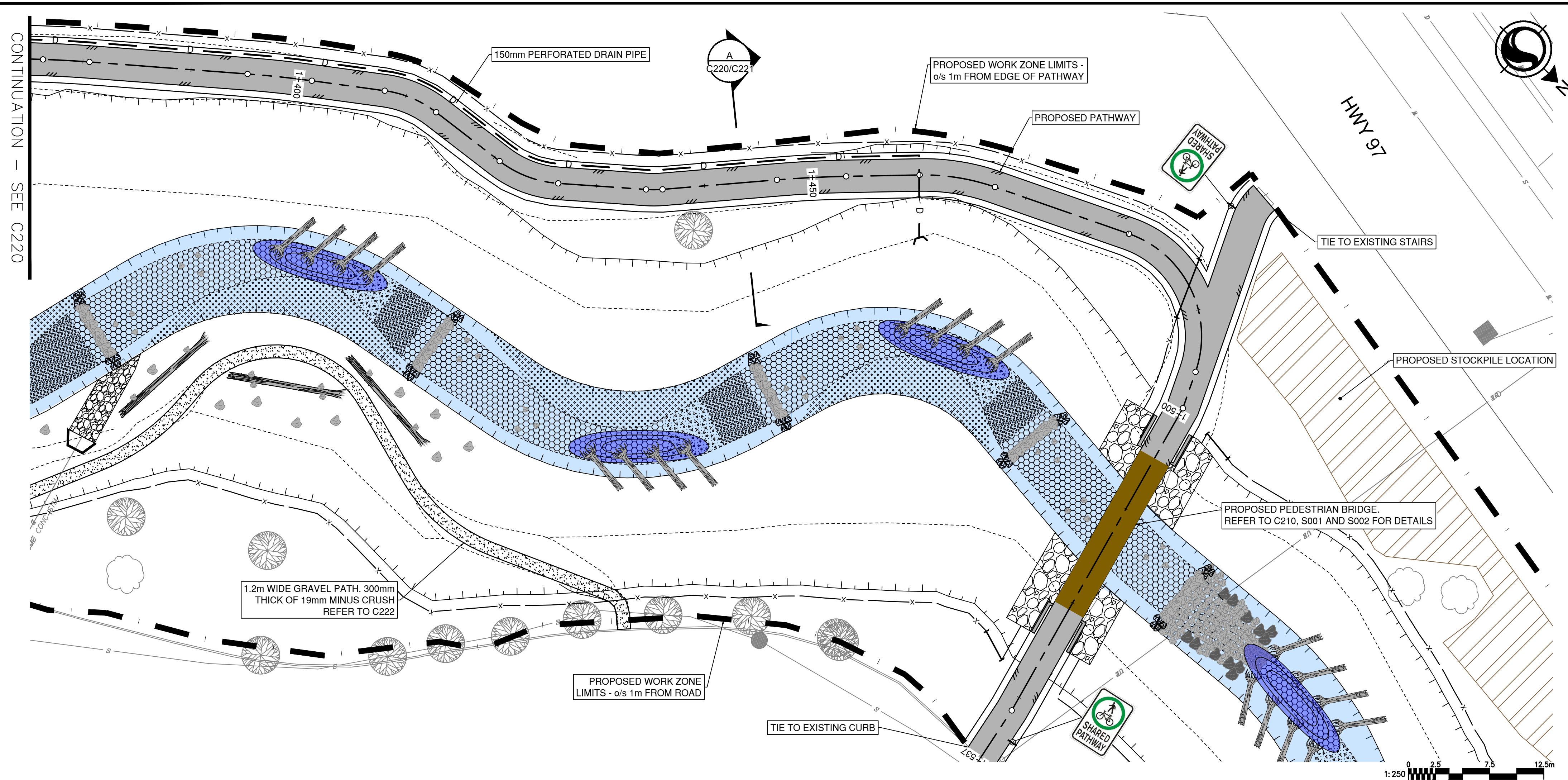
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**SHEET**  
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**TITLE**  
PATHWAY PLAN/PROFILE  
STA 1+345 - 1+380  
POLSON PARK NATURALIZATION  
REACH 1

**DRAWING NUMBER**  
C220





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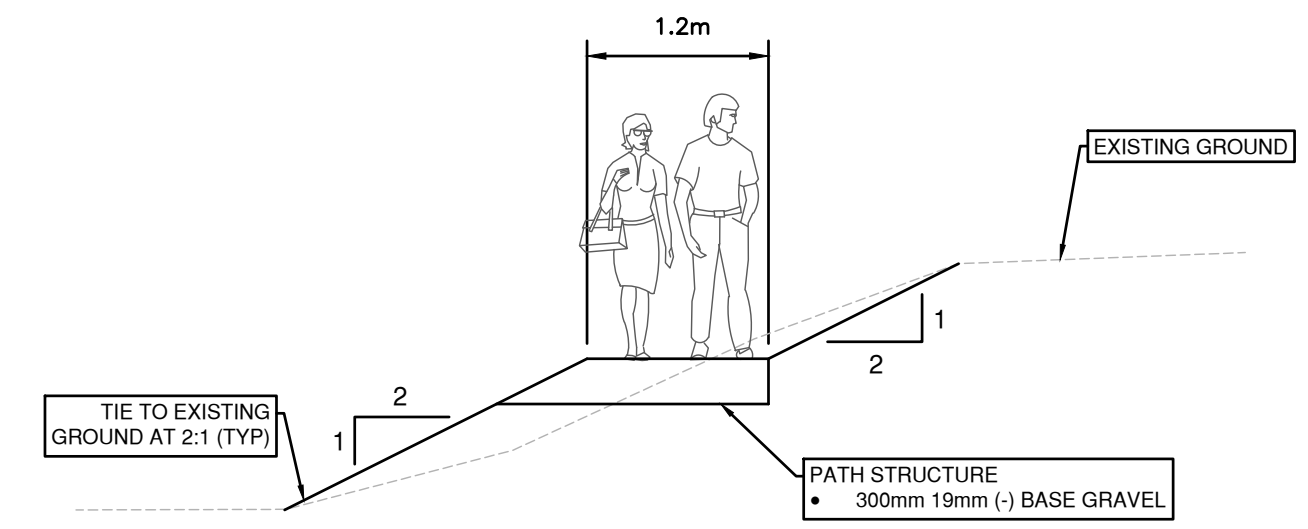
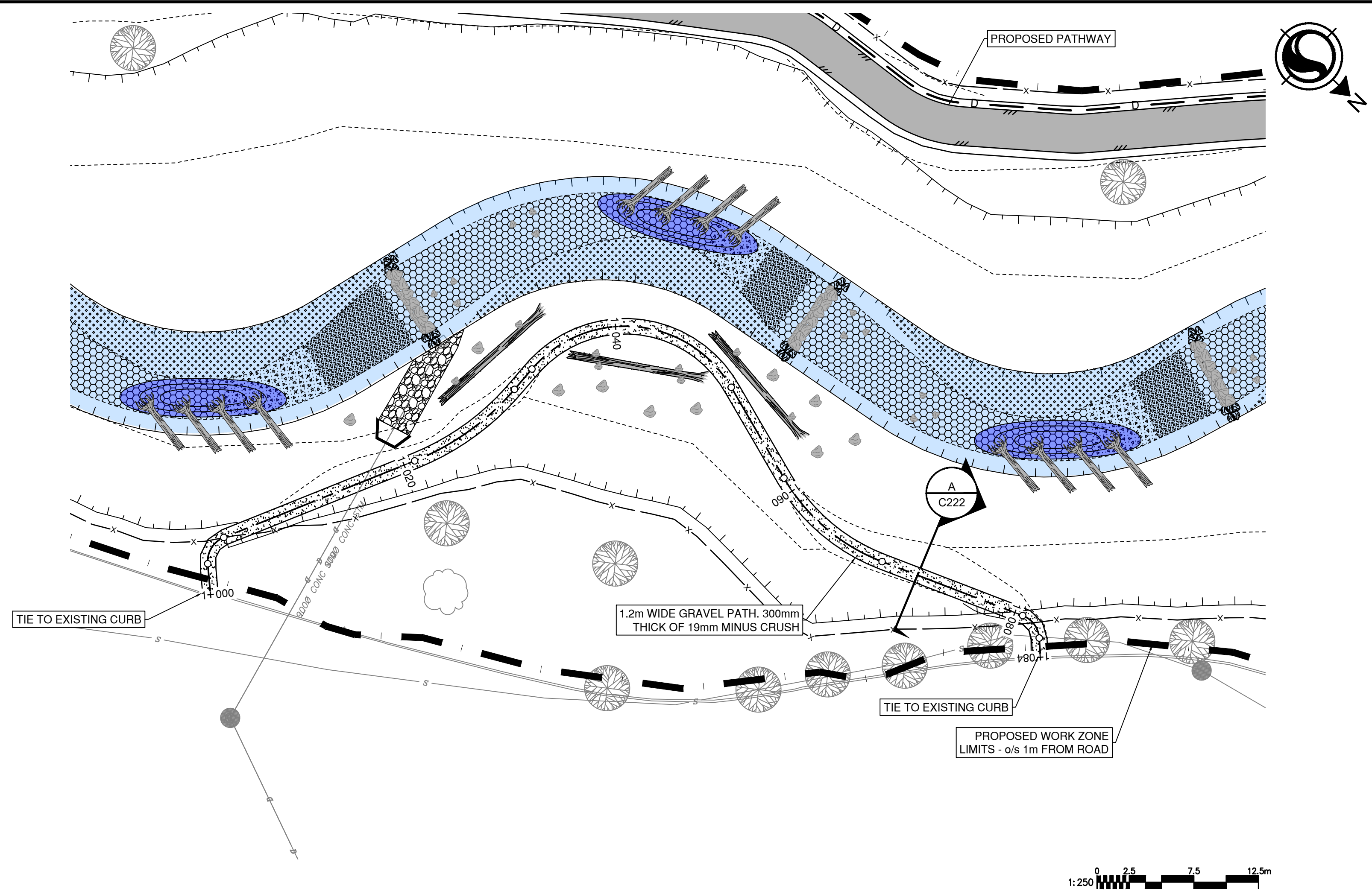
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SHEET  
14 OF 28

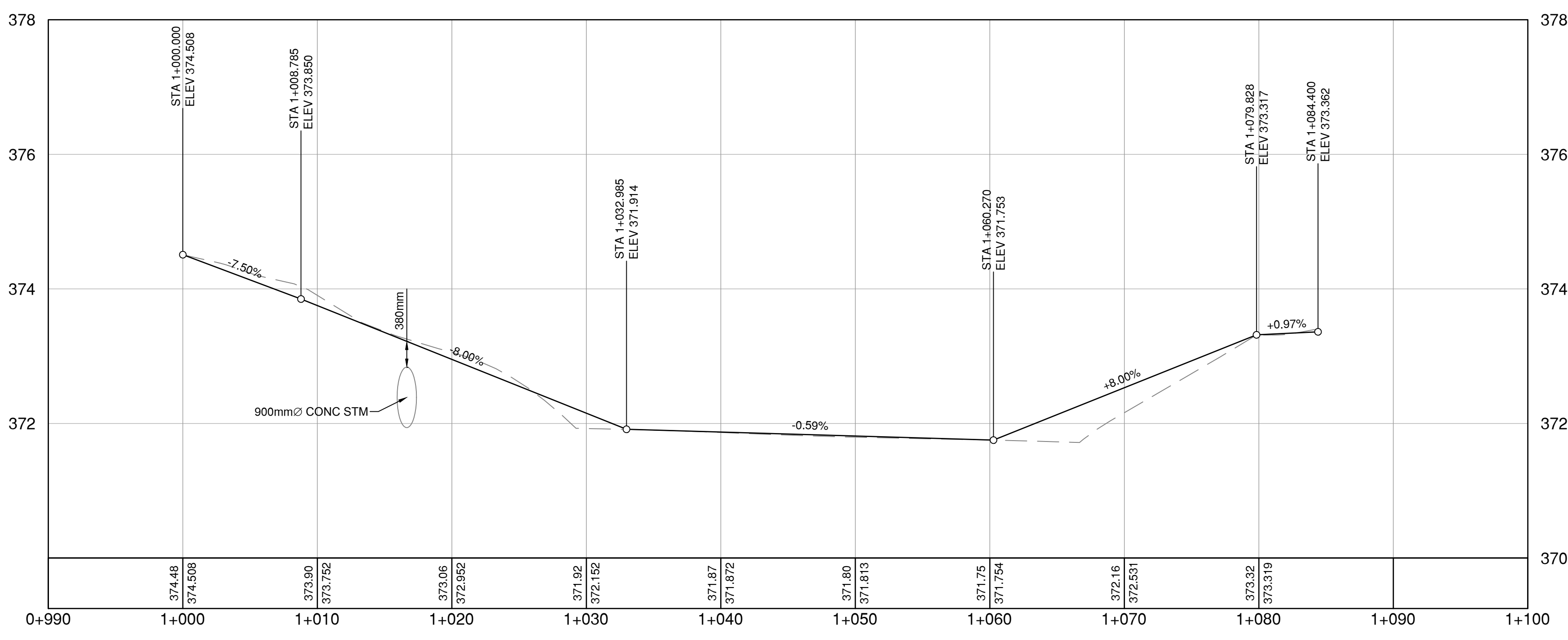
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**PATHWAY PLAN/PROFILE**  
STA 1+380 - 1+510  
POLSON PARK NATURALIZATION  
REACH 1

DRAWING NUMBER  
C221





**A | GRAVEL PATHWAY SECTION**  
C222 | 1:50



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01.11.2023

ISSUE No.	DATE	DESIGNED	DRAWN	CHECKED	DESCRIPTION
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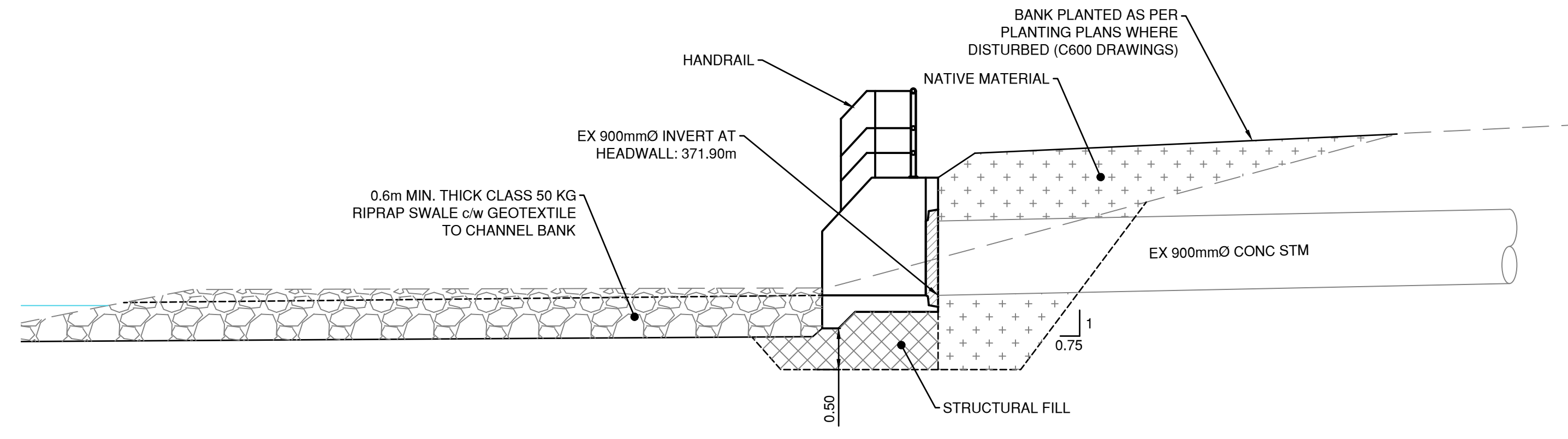
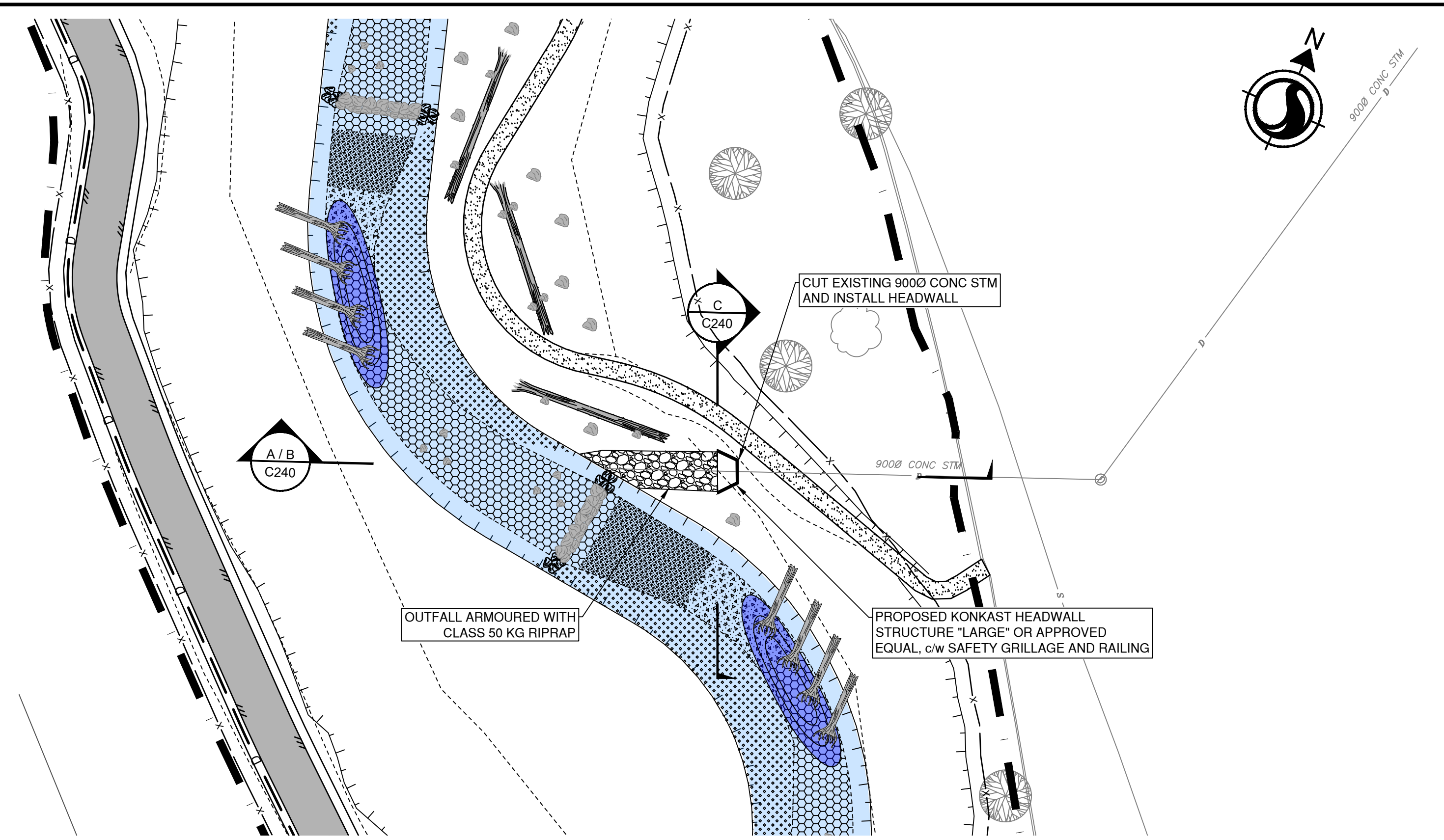
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15 of 28

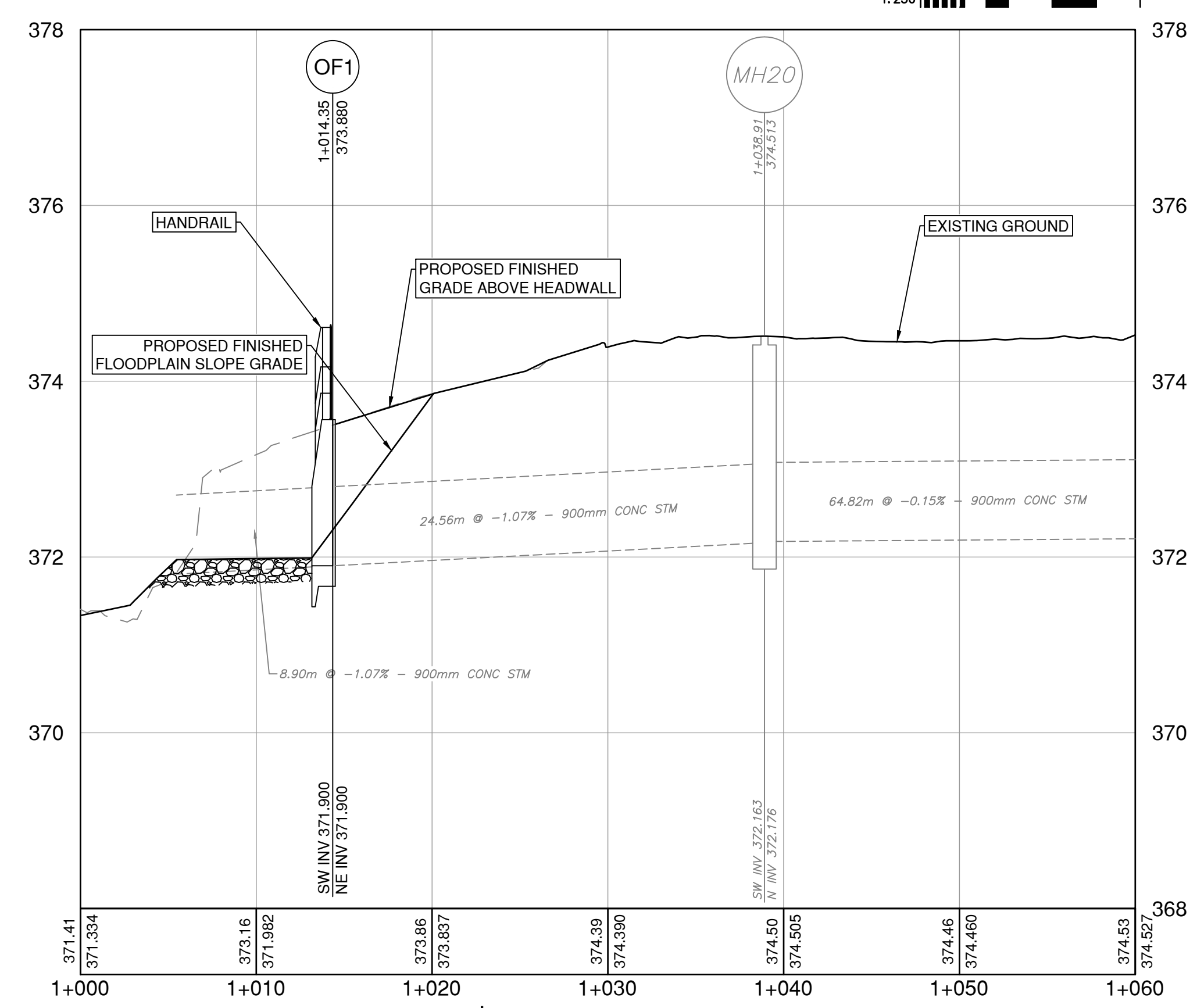
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STA 1+000 - 1+085  
POLSON PARK NATURALIZATION  
REACH 1

**DRAWING NUMBER**  
C222

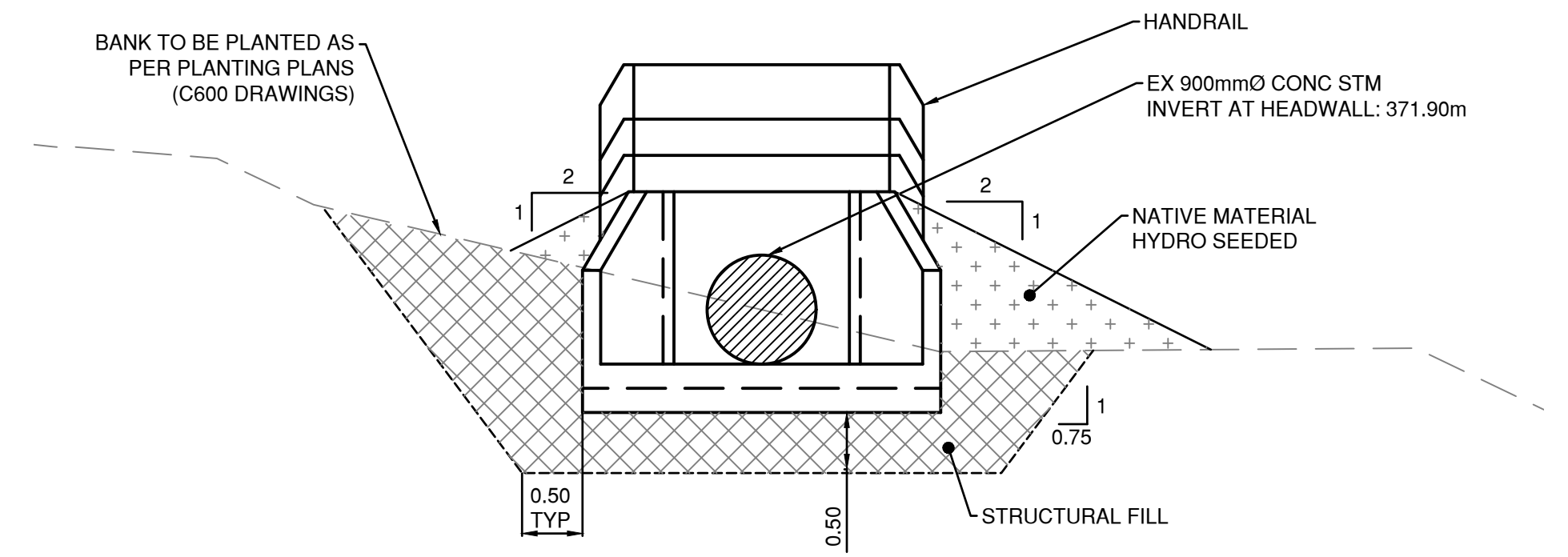




**B | OUTFALL SECTION**  
C240 | 1:50



**A | OUTFALL SECTION**  
C240 | 1:250



**C | OUTFALL SECTION**  
C240 | 1:50

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01.11.2023

ISSUE No.	DATE	DESIGNED	DRAWN	CHECKED	DESCRIPTION
0	23/05/05	LB/IB	JJ	SK	ISSUED FOR PROPOSAL



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**SHEET**  
16 of 28

**TITLE**  
STORM SECTIONS / DETAILS

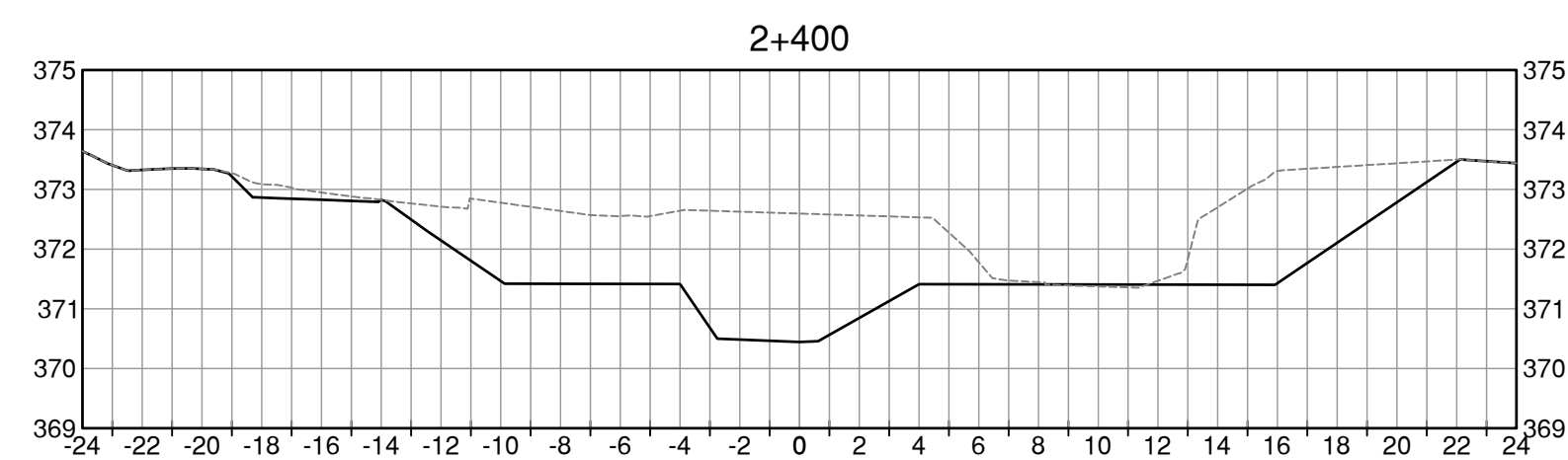
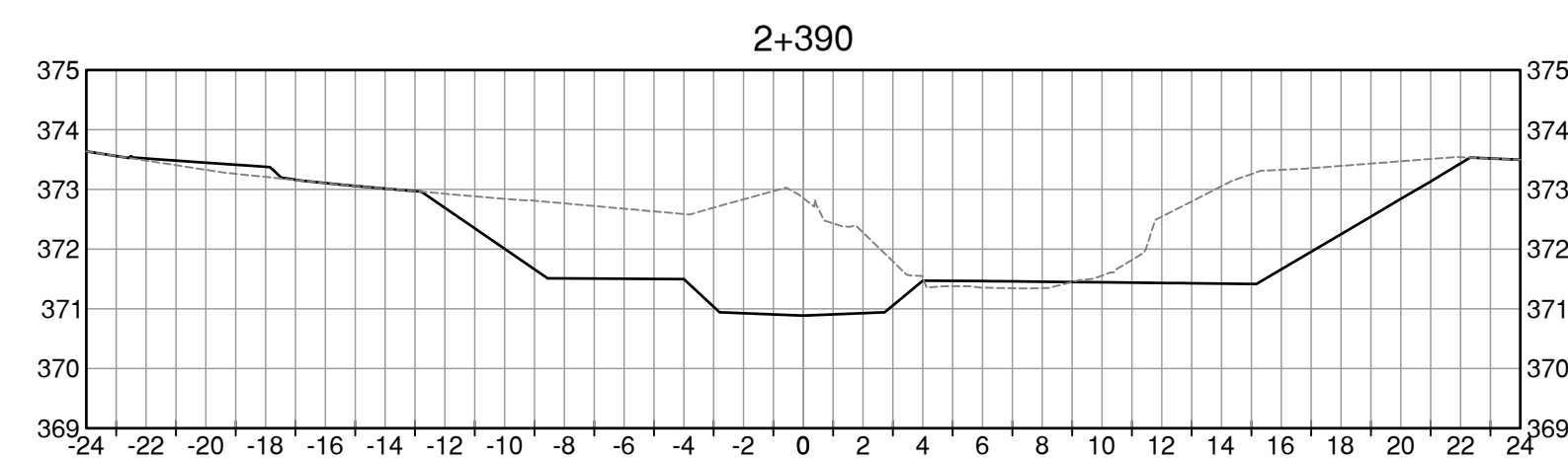
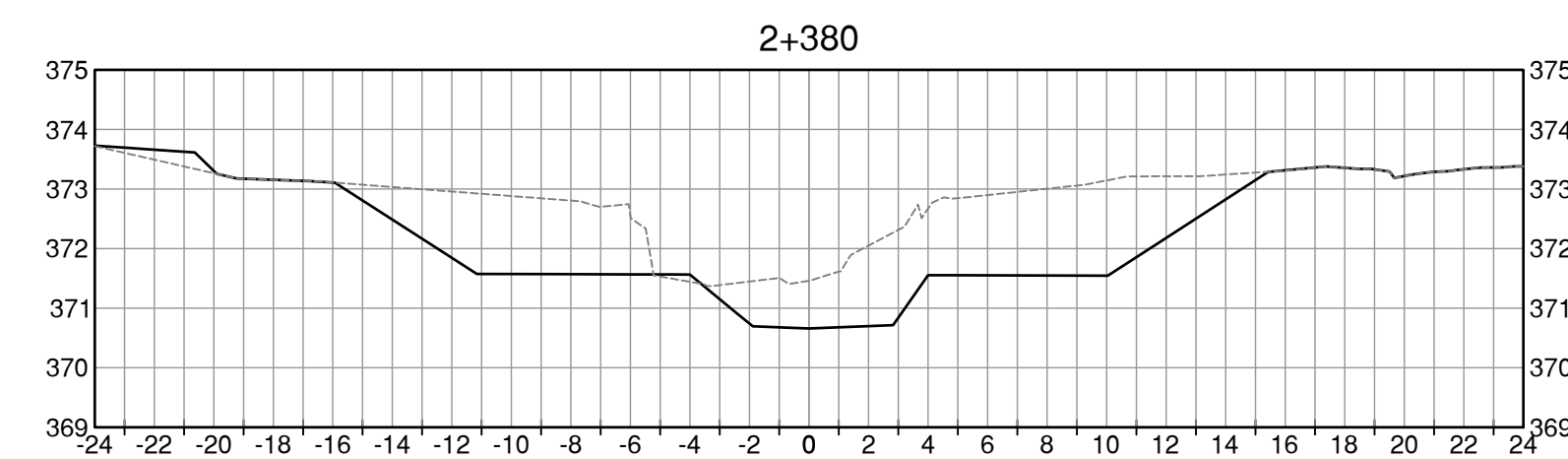
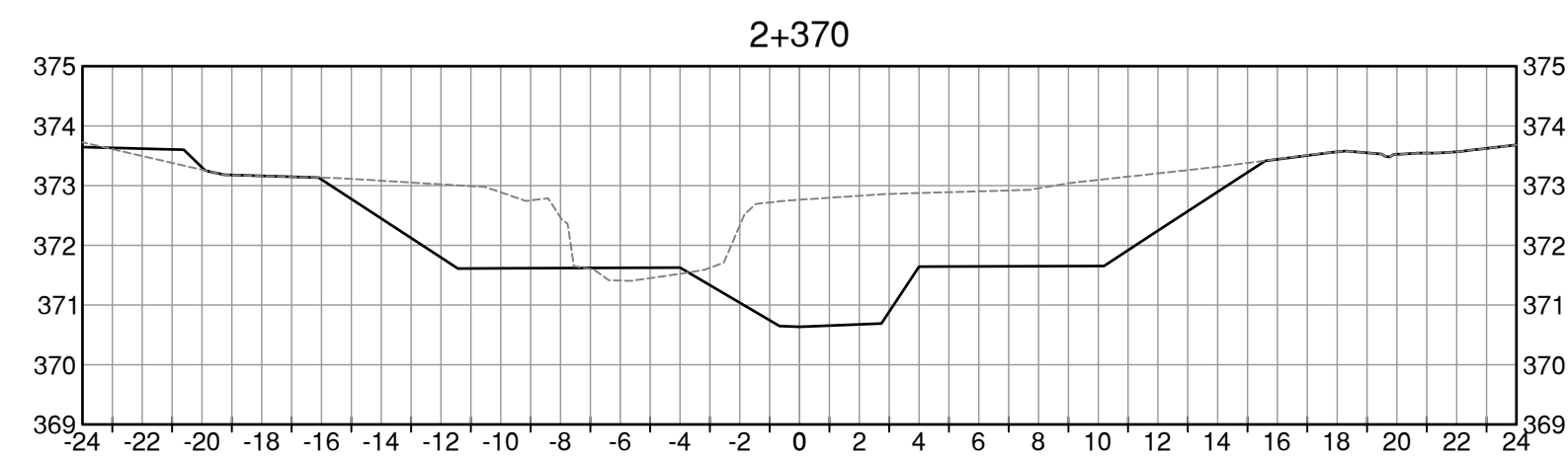
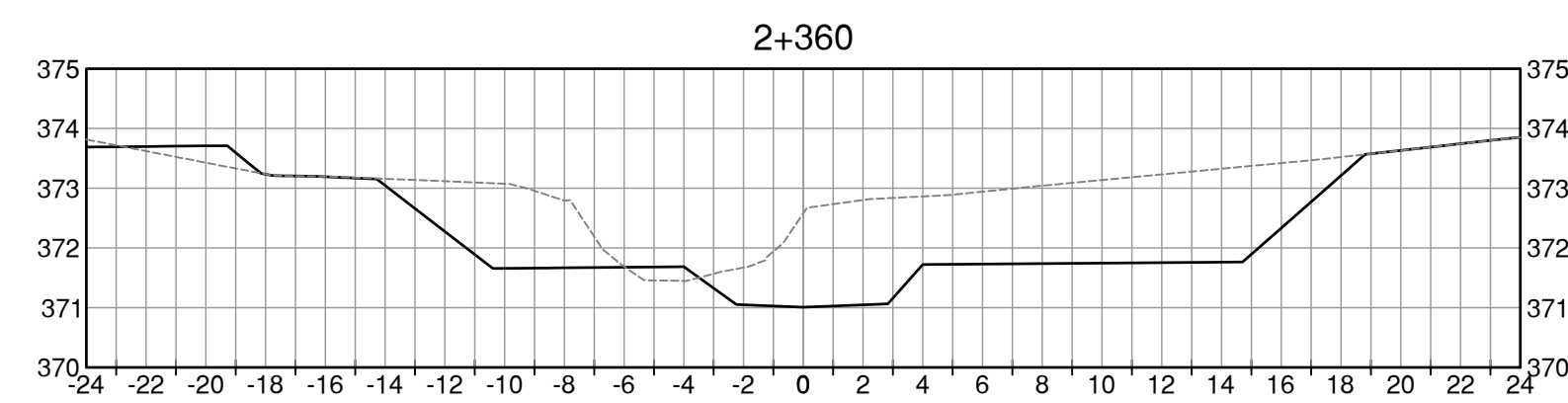
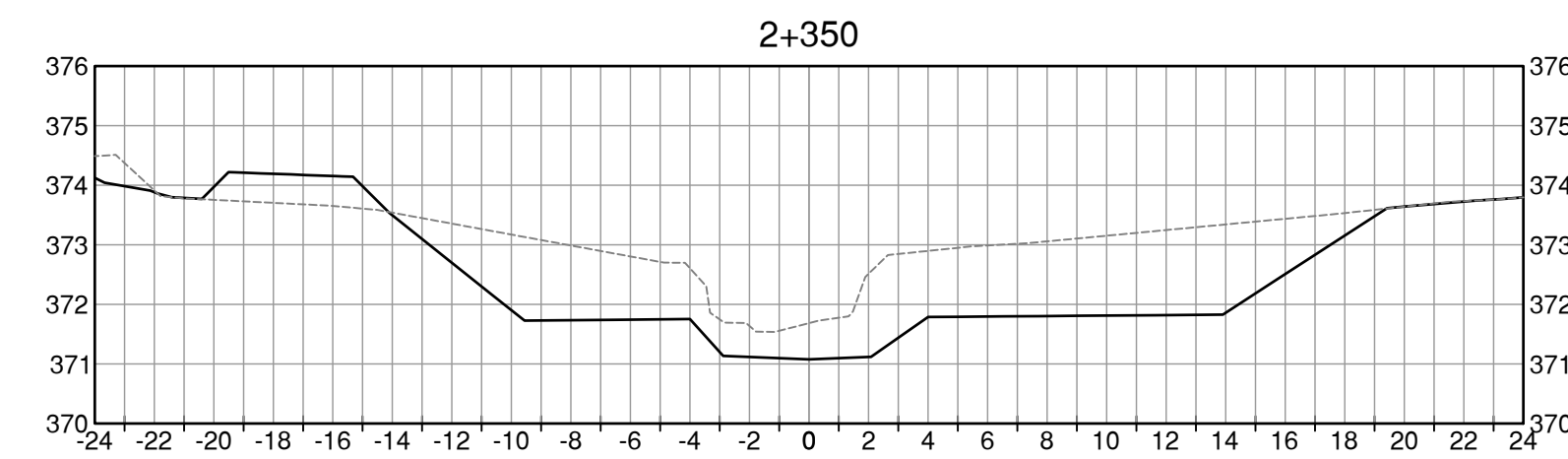
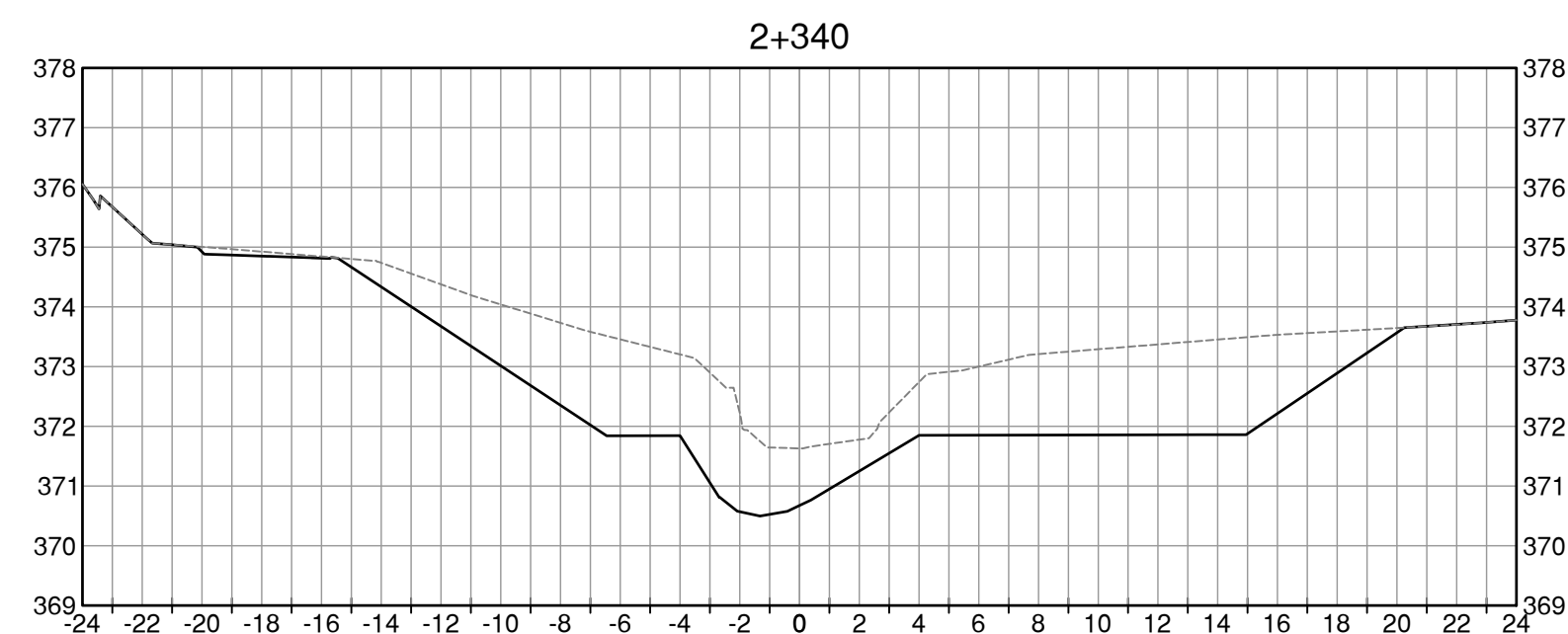
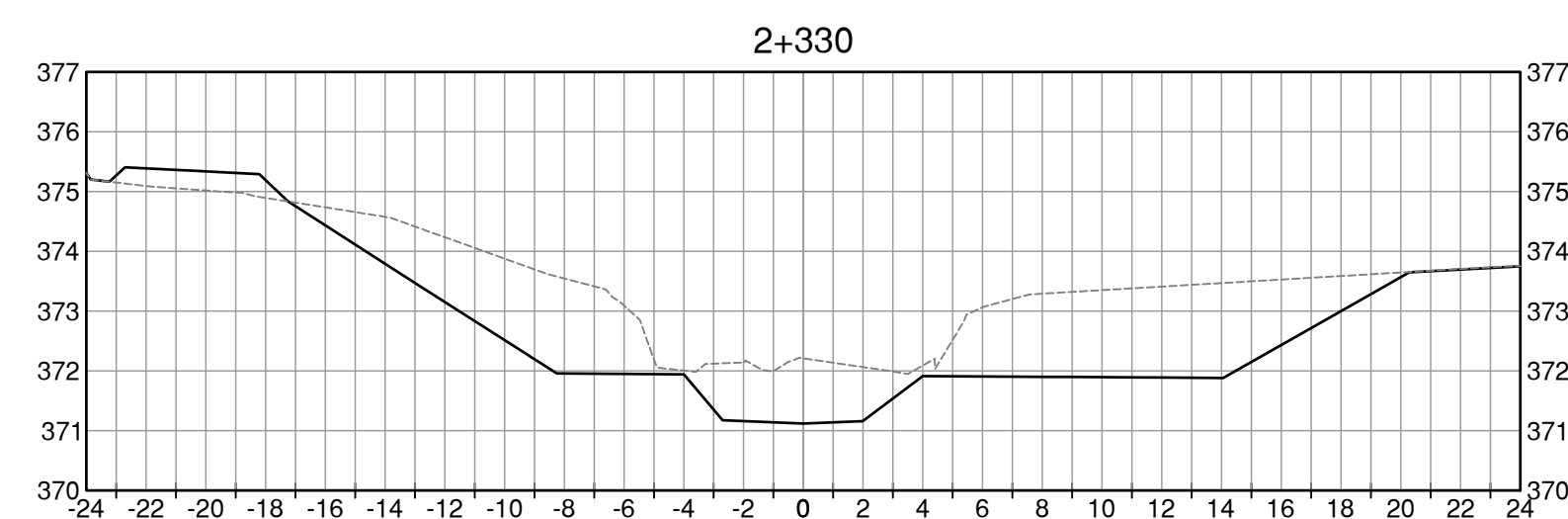
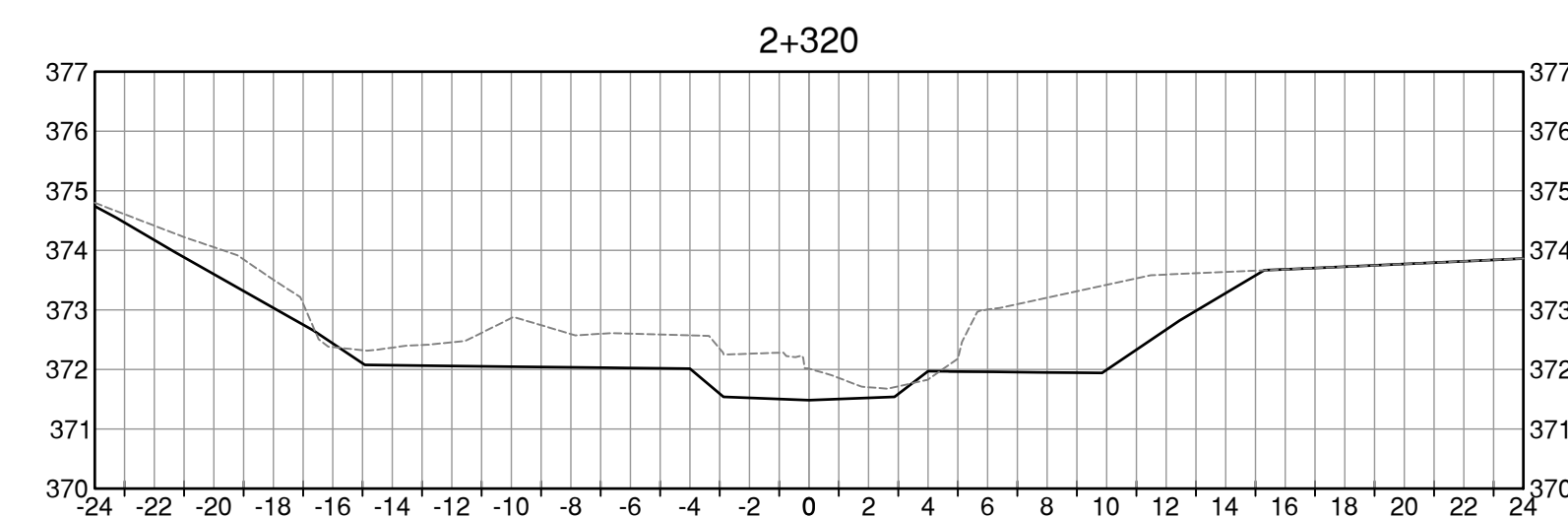
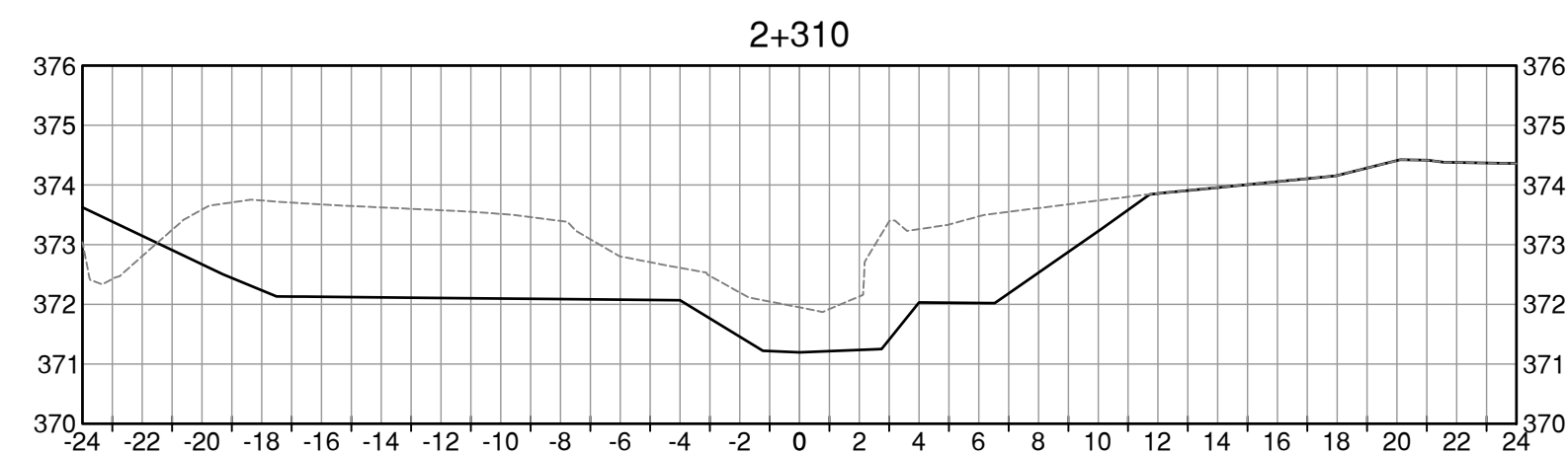
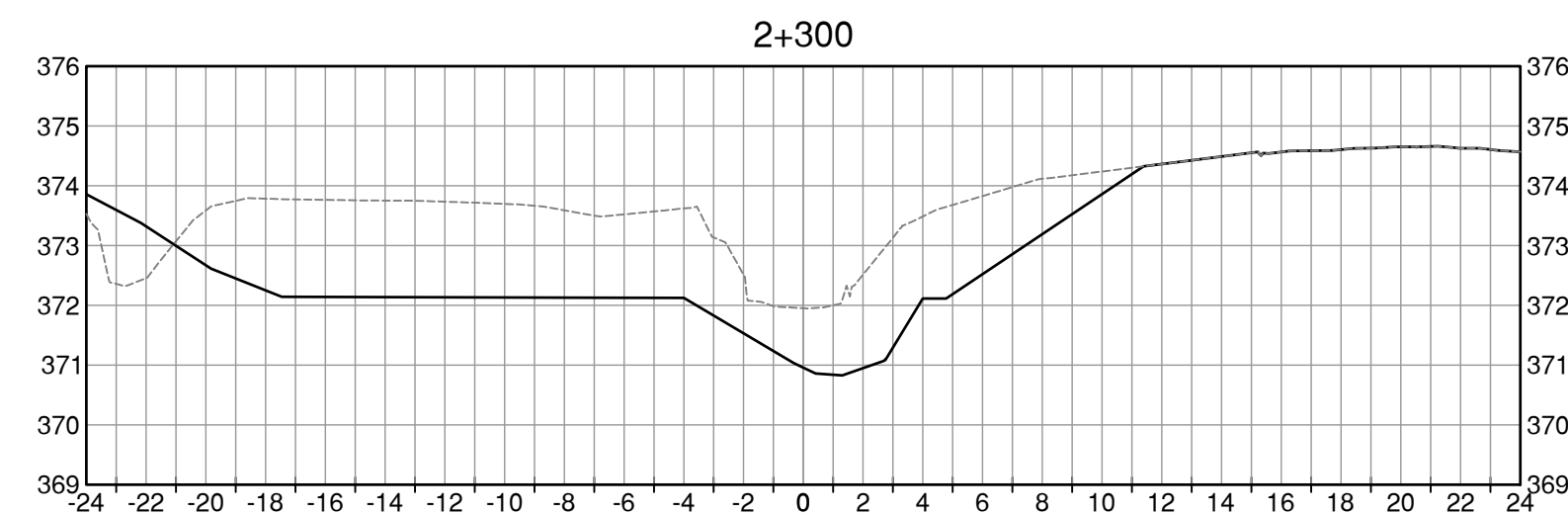
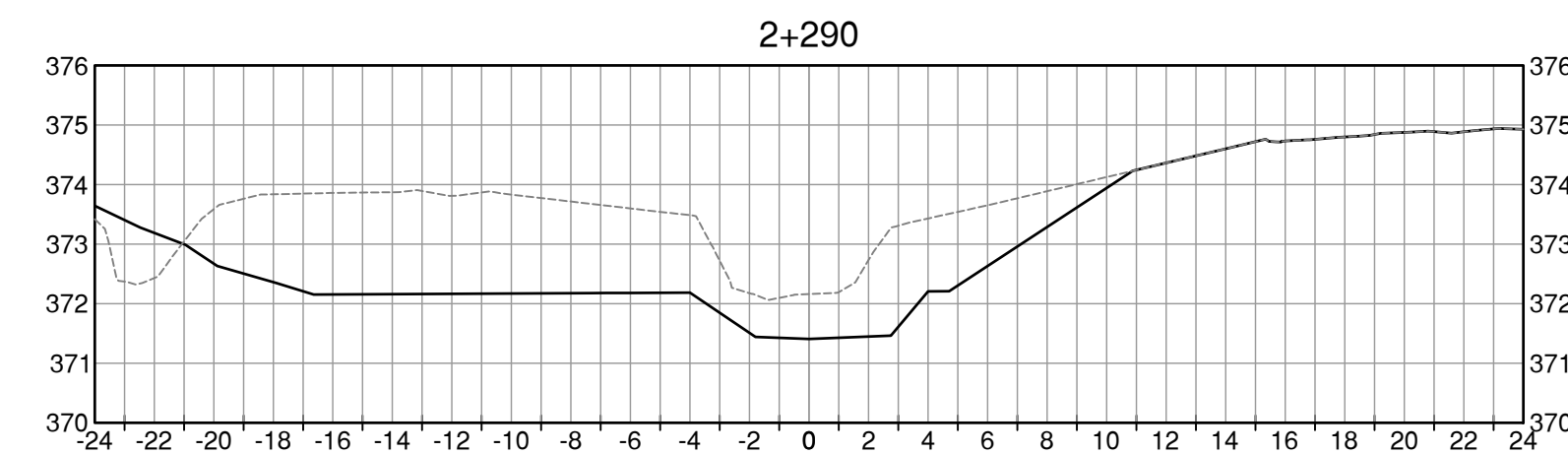
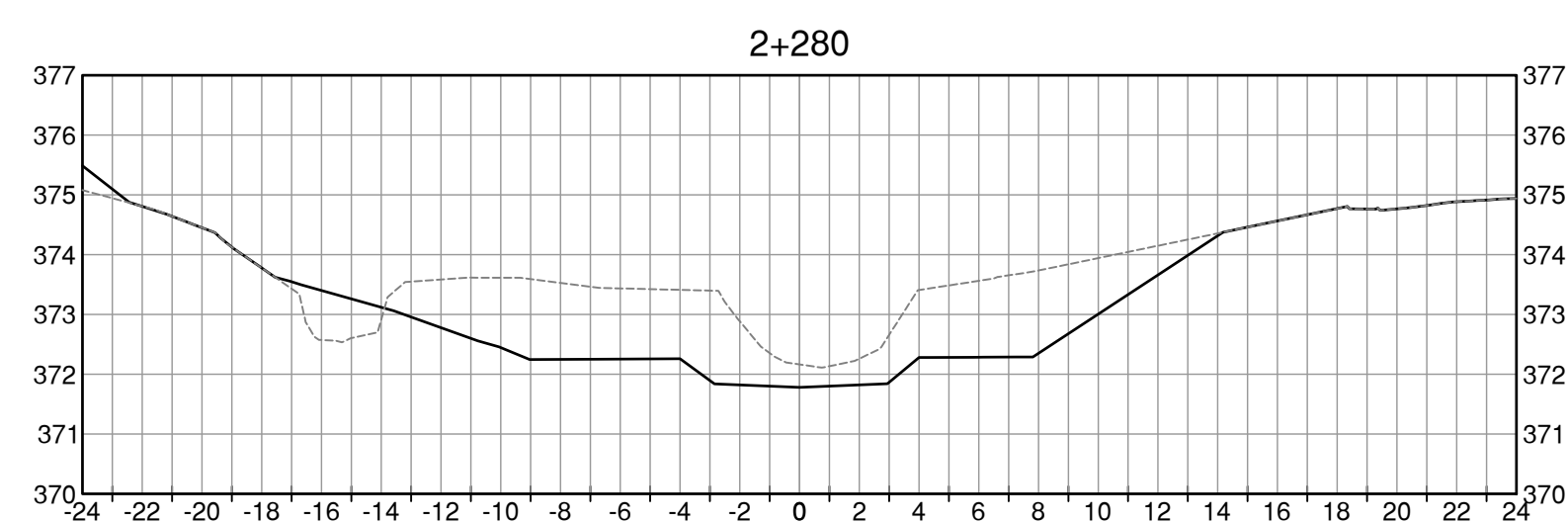
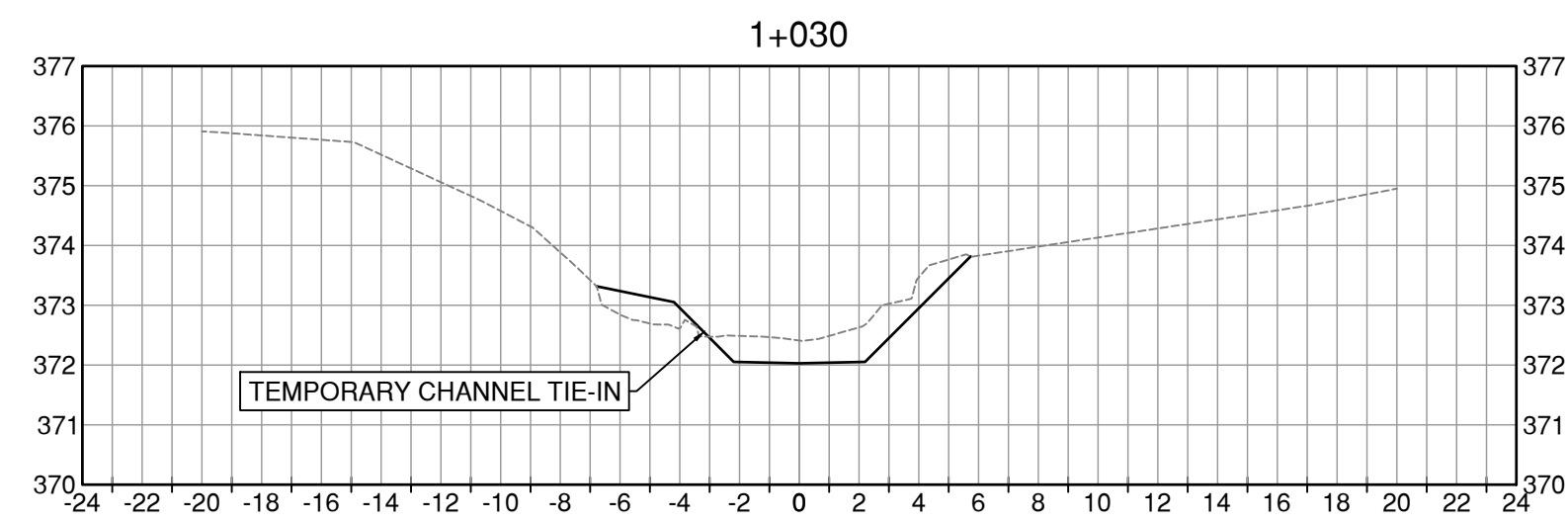
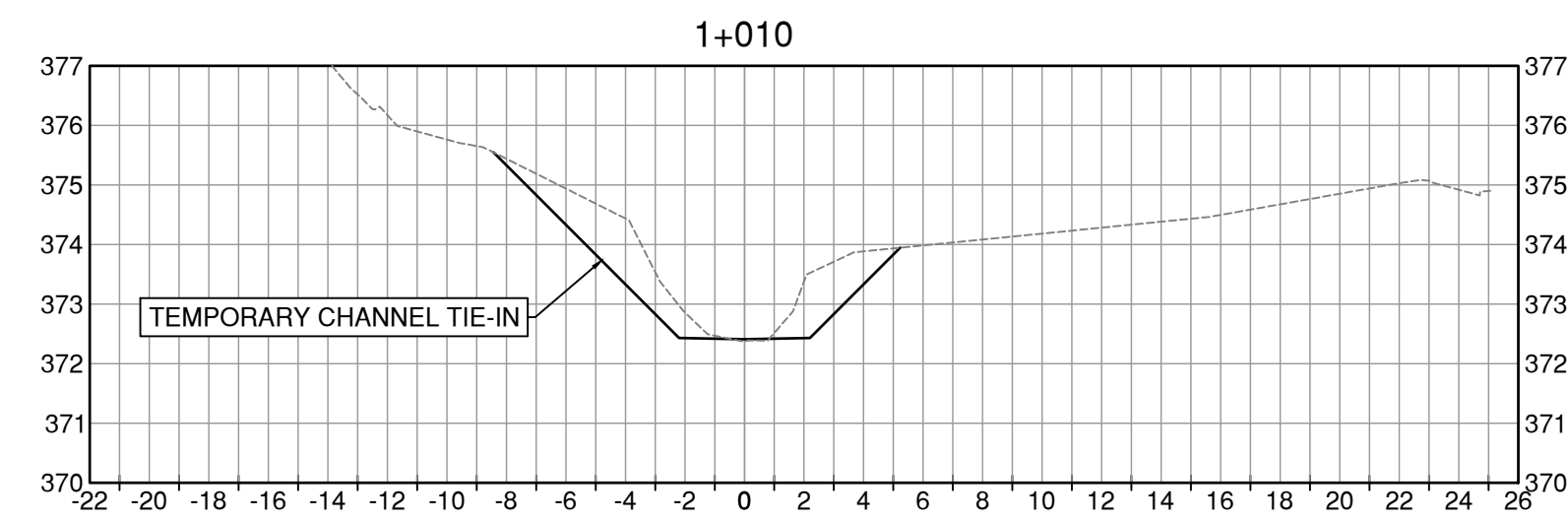
**POLSON PARK NATURALIZATION REACH 1**

**DRAWING NUMBER**  
C240



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01.11.2023



### LEGEND

ORIGINAL GROUND      - - - - -  
 FINISHED GROUND      \_\_\_\_\_

ISSUE No.	DATE	DESIGNED	DRAWN	CHECKED	DESCRIPTION
0	23/05/05	LB/IB	JJ	SK	ISSUED FOR PROPOSAL



**SCALE**  
 H: 1:250  
 V: 1:125

**SHEET**  
 17 of 28

**TITLE**  
 CHANNEL SECTIONS

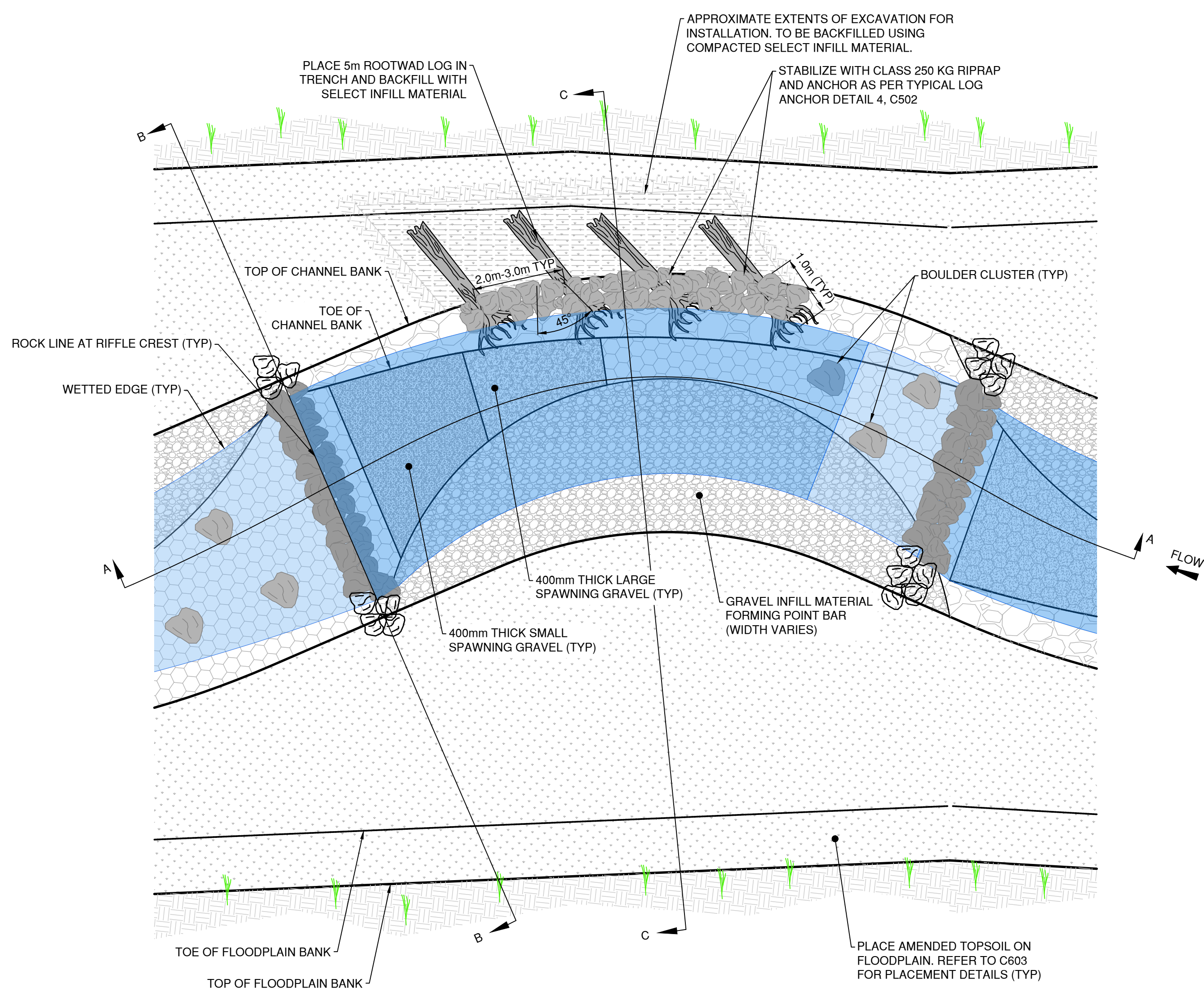
**POLSON PARK NATURALIZATION  
 REACH 1**

**DRAWING NUMBER**  
 C301

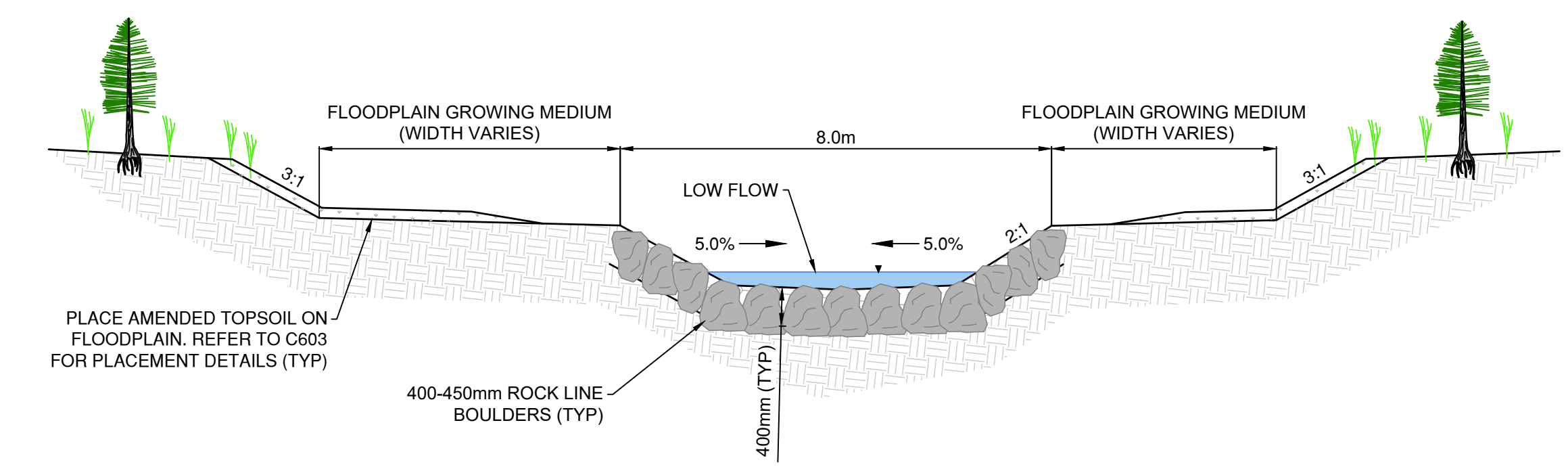




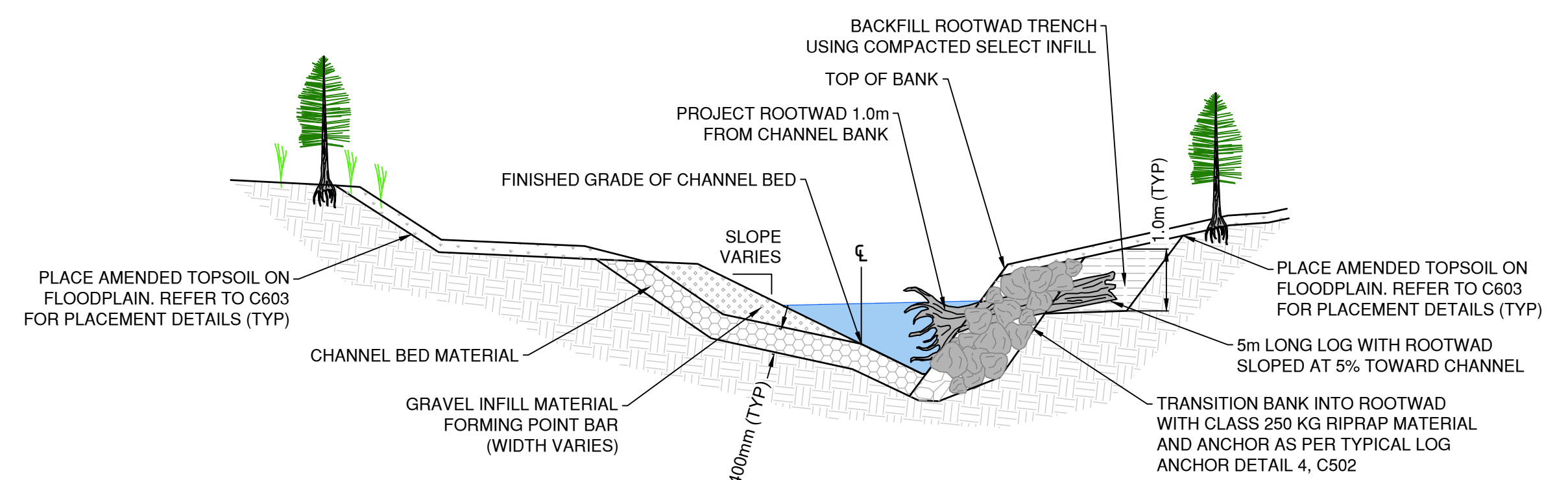




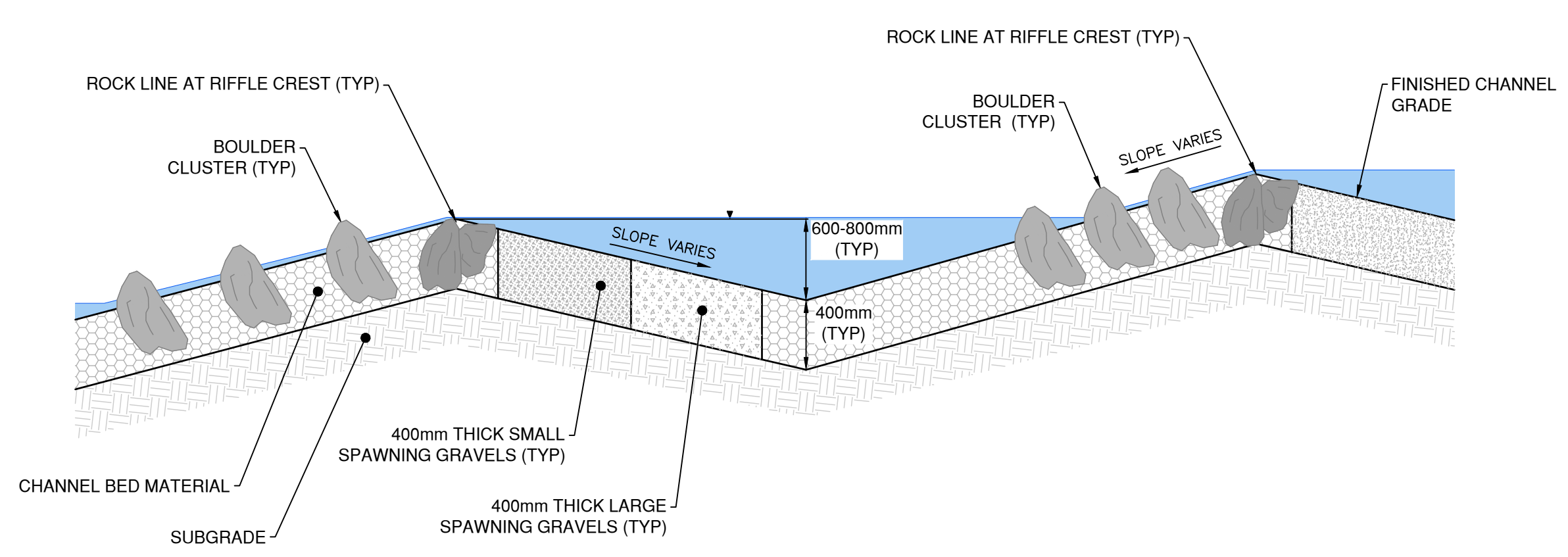
PLAN VIEW



SECTION B-B - ROCK LINE RIFFLE CREST



SECTION C-C - CHANNEL BEND POOL



SECTION A-A

NOTES:

1. EXCAVATE TO SUBGRADE SURFACE
2. INSTALL ROOTWADS IN TRENCH AT 5% SLOPE TOWARDS THE CHANNEL WITH THE ROOTWAD 1m INTO THE CHANNEL FROM THE BANK
3. ANCHOR ROOTWADS AS PER TYPICAL LOG ANCHOR DETAIL
4. PLACE CLASS 250 KG RIPRAP BALLAST OVER LOGS
5. FORM BANKS FROM CLASS 250 KG RIPRAP
6. BACKFILL TRENCH WITH SELECT INFILL MATERIAL
7. PLACE ROCK LINE AT RIFFLE CREST
8. PLACE CHANNEL BED MATERIAL AND WASH IN GRAVEL INFILL MATERIAL
9. PLACE SMALL AND LARGE SPAWNING GRAVELS AS PER TYPICAL DETAIL
10. PLACE GRAVEL INFILL MATERIAL TO FORM BAR OPPOSITE TO ROOTWADS
11. DO NOT INFILL THE POOL ON THE OUTSIDE BEND. MAINTAIN DESIGN POOL DEPTH

1 RIFFLE POOL DETAIL  
C501 NTS

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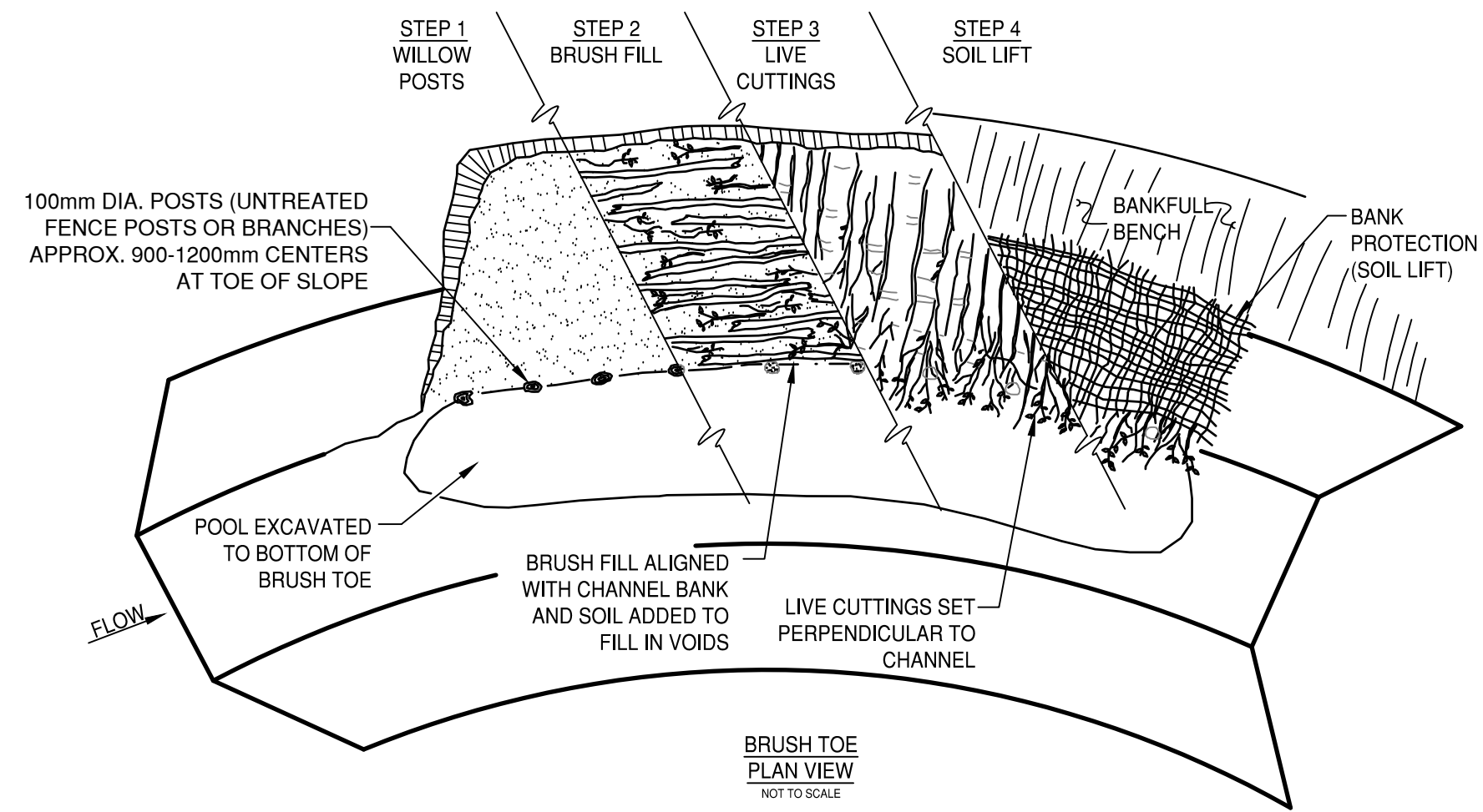


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SHEET  
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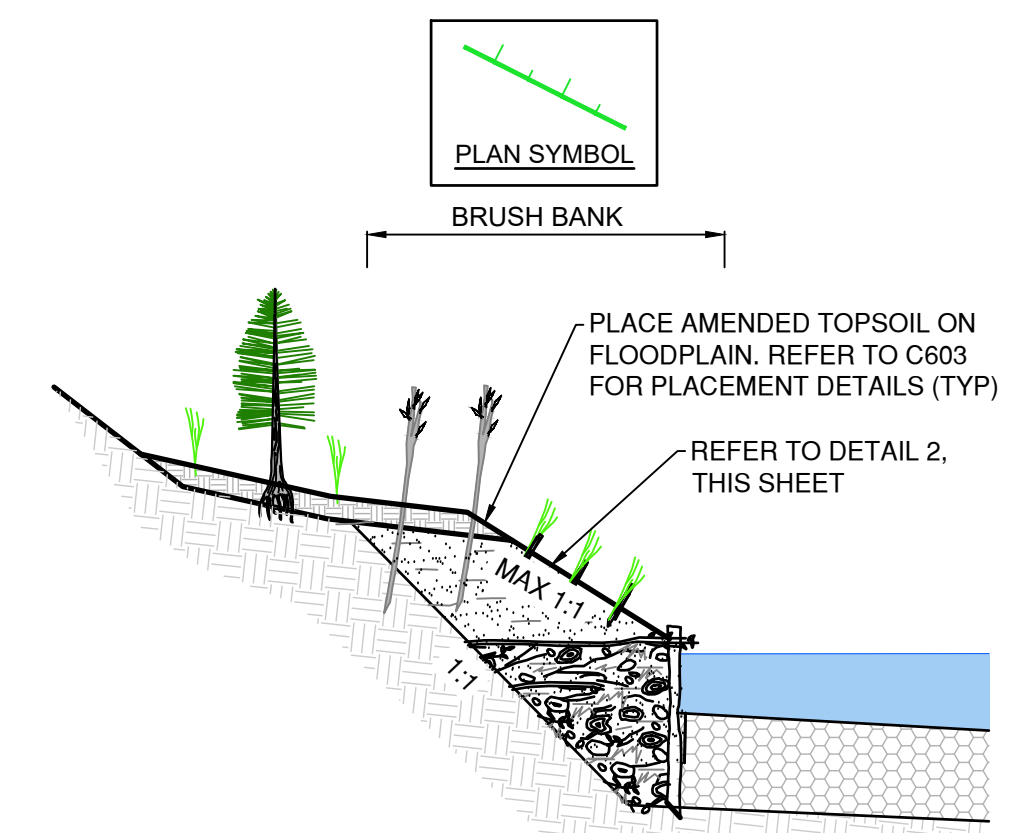
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TYPICAL CHANNEL DETAILS  
  
POLSON PARK NATURALIZATION  
REACH 1

DRAWING NUMBER  
C501

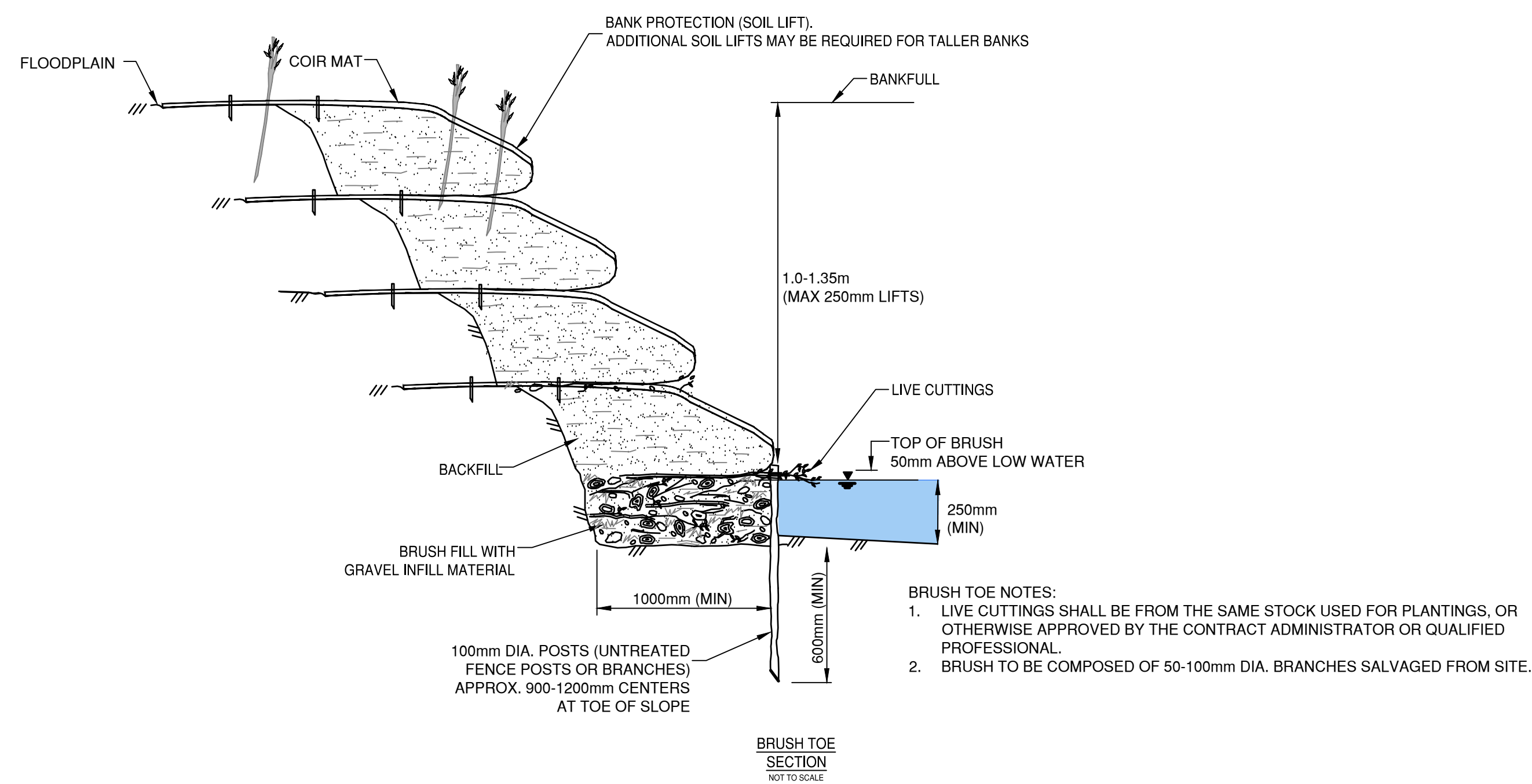




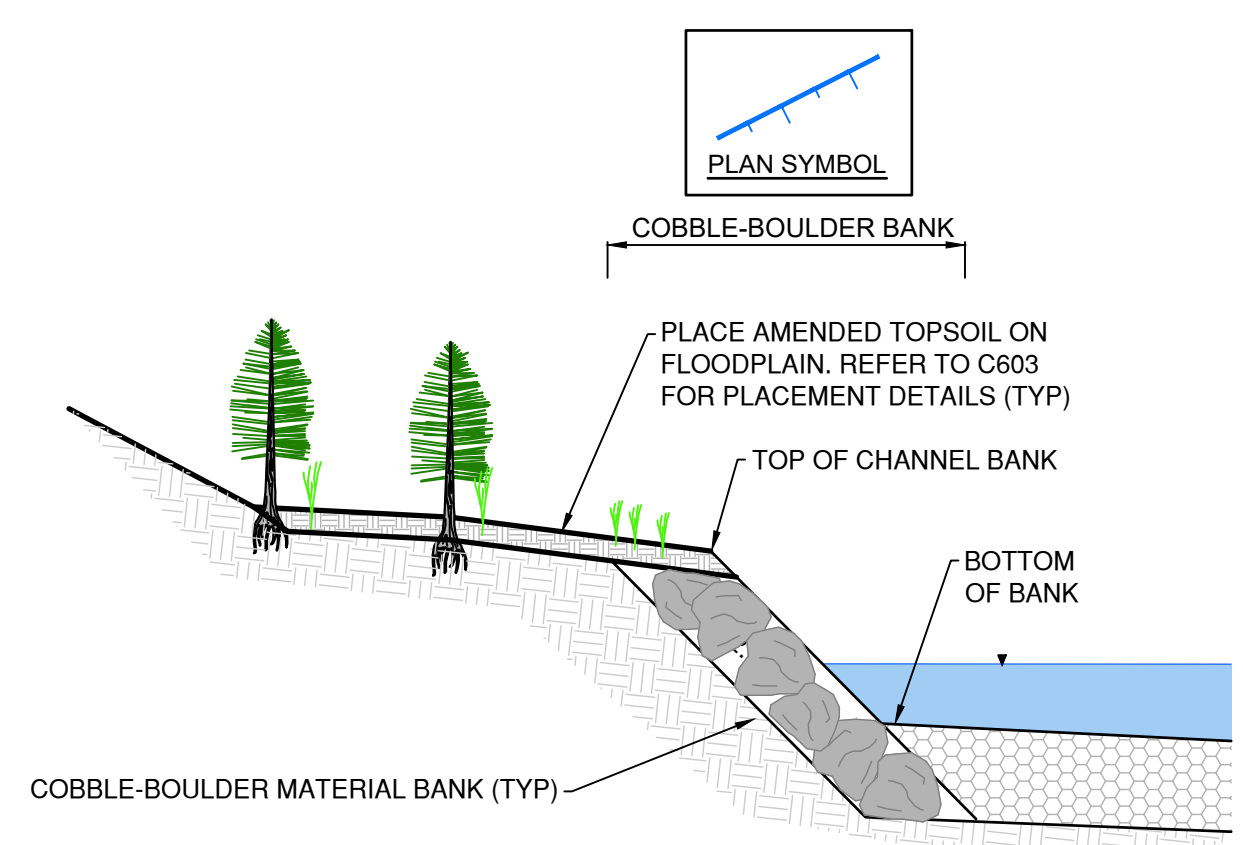
BRUSH TOE  
PLAN VIEW  
NOT TO SCALE



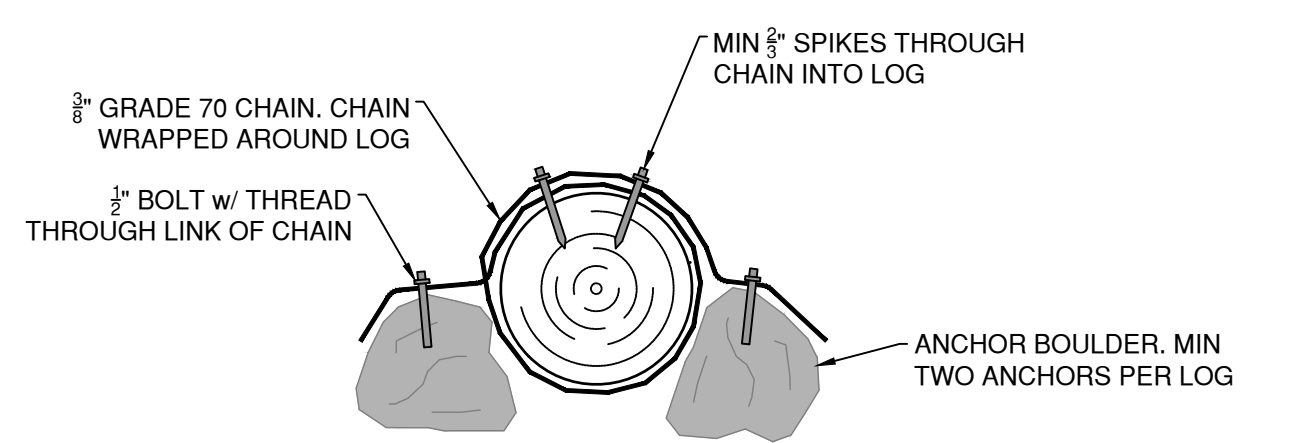
SECTION - RIFFLE POOL w/ RIPRAP AND BRUSH BANK



2 TYPICAL BRUSH TOE DETAILS  
C502 NTS

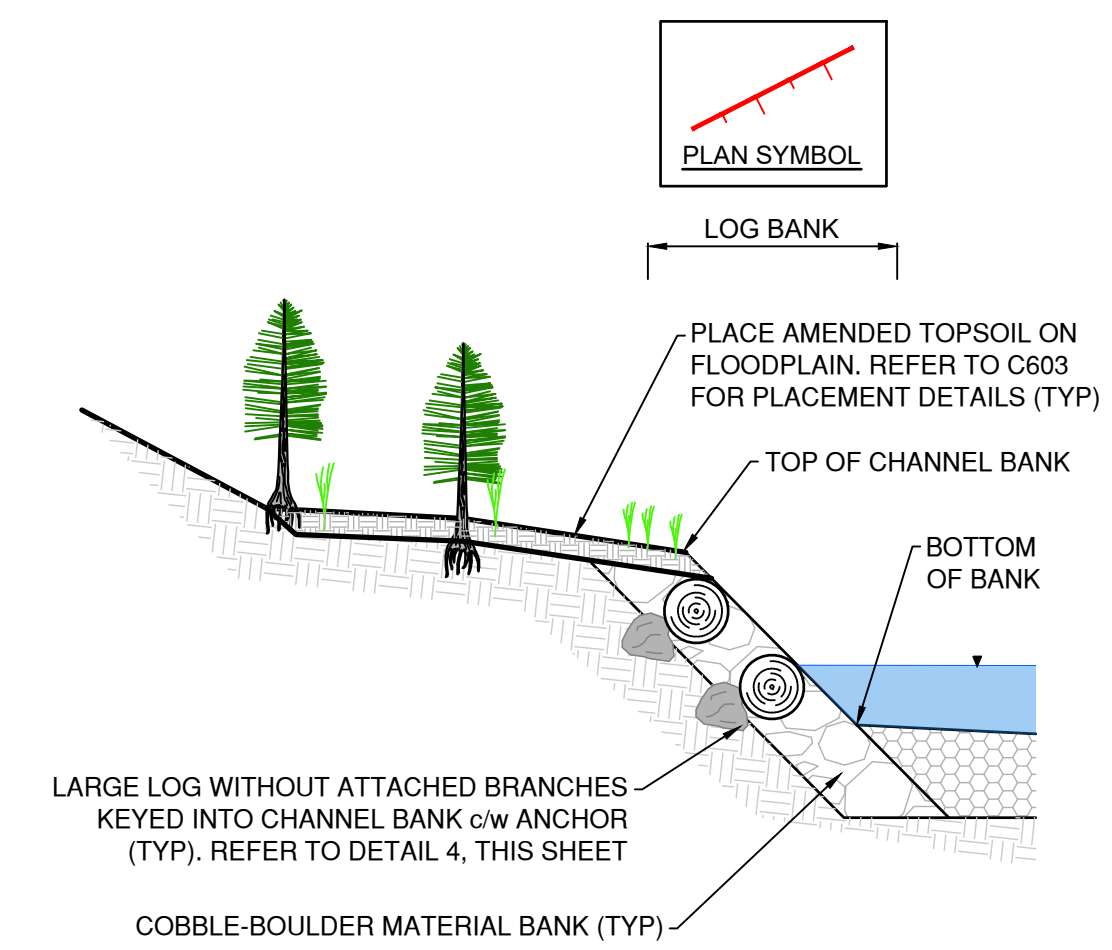


SECTION - RIFFLE POOL w/ RIPRAP AND COBBLE BOULDER BANK



NOTES:  
1. SUPPLY AND INSTALL 12mmØ 150mm HILTI-KNIT BOLT (MINIMUM 100mm EMBEDMENT) c/w HILTI HIT-RE 500 V3 SYSTEM INTO ANCHOR BOULDERS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

4 TYPICAL LOG ANCHOR DETAIL  
C502 NTS



SECTION - RIFFLE POOL w/ LOG BANK

3 TYPICAL BANK TREATMENT DETAILS  
C502 NTS

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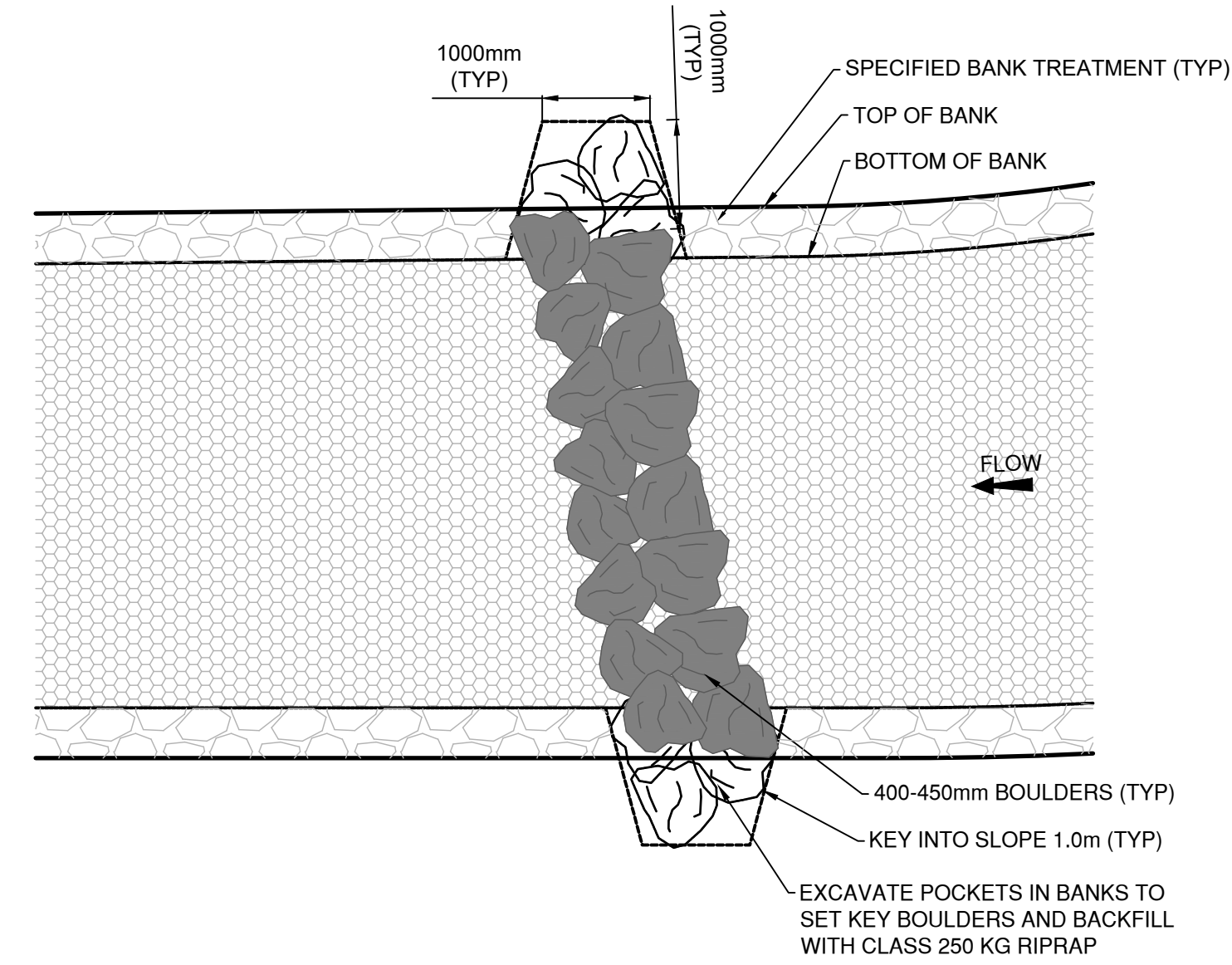
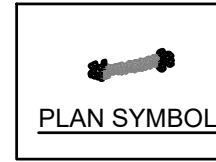


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TITLE  
TYPICAL CHANNEL DETAILS  
  
POLSON PARK NATURALIZATION  
REACH 1

DRAWING NUMBER  
C502



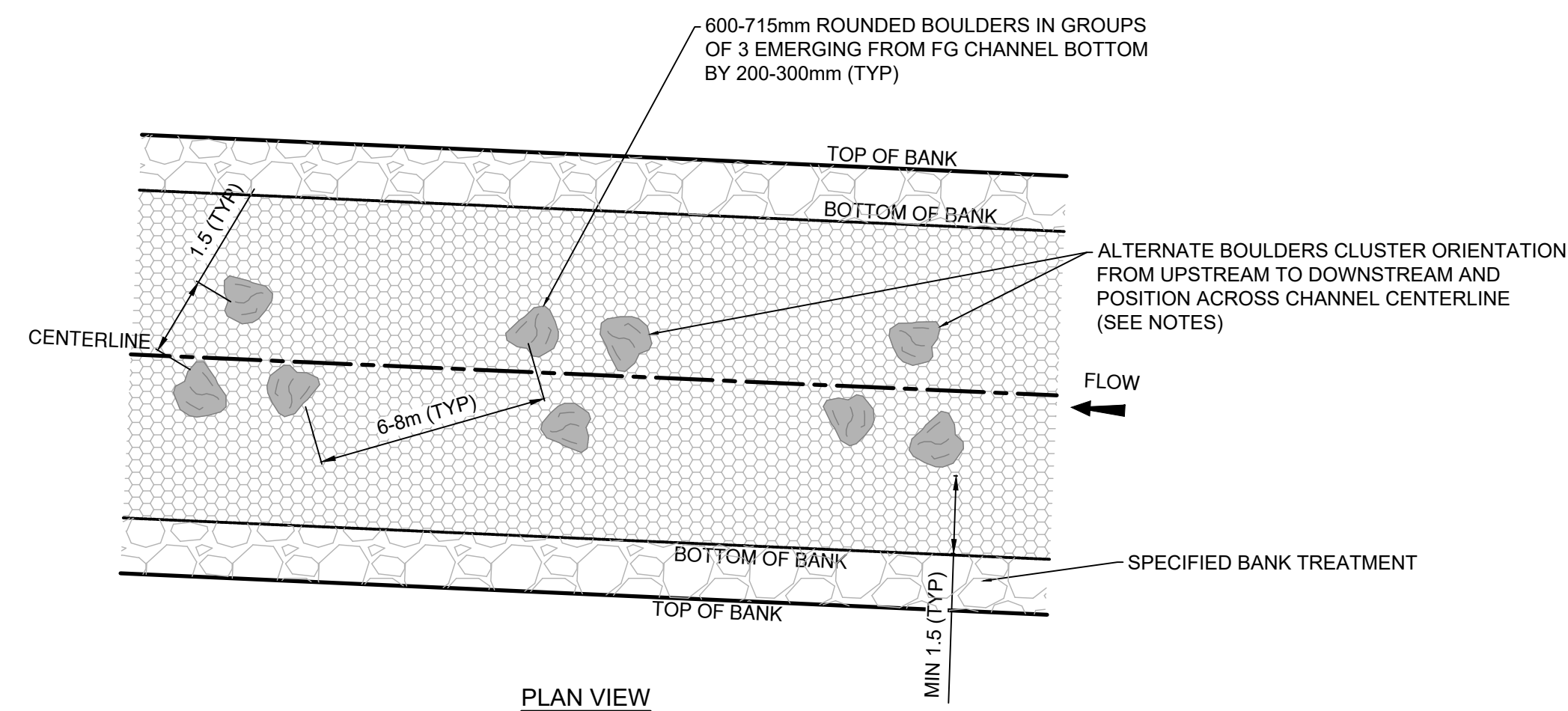
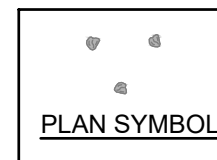


PLAN VIEW

**5** ROCK LINE DETAIL  
C503 NTS

NOTES:

- BOULDERS FOR THE ROCK LINE MUST HAVE A HAVE A DIAMETER OF 400-450mm.
- HEADER BOULDERS SHALL BE UNDERLAIN BY FOOTER BOULDERS UNLESS OTHERWISE DIRECTED BY THE QUALIFIED PROFESSIONAL. FOOTER BOULDERS SHALL BE INSTALLED FIRST AND POSITIONED TO SUPPORT HEADER BOULDERS ABOVE. HEADER BOULDERS SHALL BE OFFSET SLIGHTLY UPSTREAM OF THE FOOTER BOULDERS.
- SET INVERTS AT ELEVATION SHOWN ON THE PLAN AND PROFILE SHEETS. THE DROP IN ELEVATION ACROSS EACH LINE SHALL NOT EXCEED 120mm UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE ROCK LINE SHALL BE PLACED PERPENDICULAR TO THE CHANNEL BANKS. LOCATION OF ALL ROCK LINES SHOWN ON THE PLAN AND PROFILE SHEETS (C201 TO C203).
- THE VERTICAL SLOPE OF EACH ROCK LINE SHALL NOT EXCEED 10% UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ALL GAPS/VOIDS LARGER THAN 50 mm BETWEEN THE HEADER AND FOOTER BOULDERS SHALL BE HAND CHINKED WITH COBBLE AND GRAVEL ON THE UPSTREAM SIDE WITH GRAVEL INFILL MATERIAL. ALL CHINKING SHALL BE APPROVED BY THE QUALIFIED PROFESSIONAL BEFORE THEY ARE BACKFILLED.
- BACKFILL BETWEEN LINES WITH COBBLE BOULDER MATERIAL (SEE G004).
- INFILL BED WITH GRAVEL INFILL MATERIAL. USE A PUMP AND HOSE TO WASH THE GRAVEL INFILL MATERIAL INTO VOIDS SUCH THAT WATER FLOWS OVER THE BED AND NOT THROUGH IT. INFILLING SHALL BE APPROVED BY THE QUALIFIED PROFESSIONAL.
- SELECT BACKFILL AND SOIL BACKFILL MATERIAL ON THE BANKS SHALL BE COMPACTED SUCH THAT FUTURE SETTLEMENT OF THE MATERIAL IS KEPT TO A MINIMUM.
- THE SURFACE OF THIS STRUCTURE SHALL BE FINISHED TO A ROUGH IRREGULAR SURFACE IN ACCORDANCE WITH THE LINES, GRADES, AND CROSS-SECTIONS OR ELEVATIONS SHOWN ON THE DRAWINGS. THE DEGREE OF FINISH FOR INVERT ELEVATIONS SHALL BE WITHIN 30 mm OF THE GRADES AND ELEVATIONS INDICATED, PROVIDED ANY HEIGHT DOES NOT EXCEED MAX. ALLOWABLE DROP OF 120mm FOR THIS STRUCTURE.



PLAN VIEW

**6** BOULDER CLUSTER DETAIL  
C503 NTS

NOTES:

- BOULDERS FOR THE CLUSTERS SHALL HAVE A DIAMETER OF 600-715mm.
- BOULDER CLUSTERS SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF THE QUALIFIED PROFESSIONAL. BOULDER CLUSTERS ARE TO BE INSTALLED WITHIN THE CHANNEL DURING LOW FLOW (WITH FISH ISOLATION) TO ADJUST PLACEMENT AS REQUIRED FOR THE FLOW CONDITIONS.
- BOULDERS SHALL BE PLACED IN GROUPS OF THREE, WITHIN THE MIDDLE 3/4 OF THE CREEK, IN PATTERNS THAT DO NOT DIRECT FLOW TOWARDS THE BANKS.
- BOULDERS SHALL PROTRUDE 200-300mm ABOVE THE CHANNEL BED.
- SPACE THE BOULDERS AS SPECIFIED IN THE DETAIL ENSURING THAT NO MORE THAN 20% OF THE STREAM WIDTH IS OBSTRUCTED AT ANY GIVEN POINT.

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01.11.2023

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V: N/A

SHEET  
21 of 28

TITLE  
TYPICAL CHANNEL DETAILS

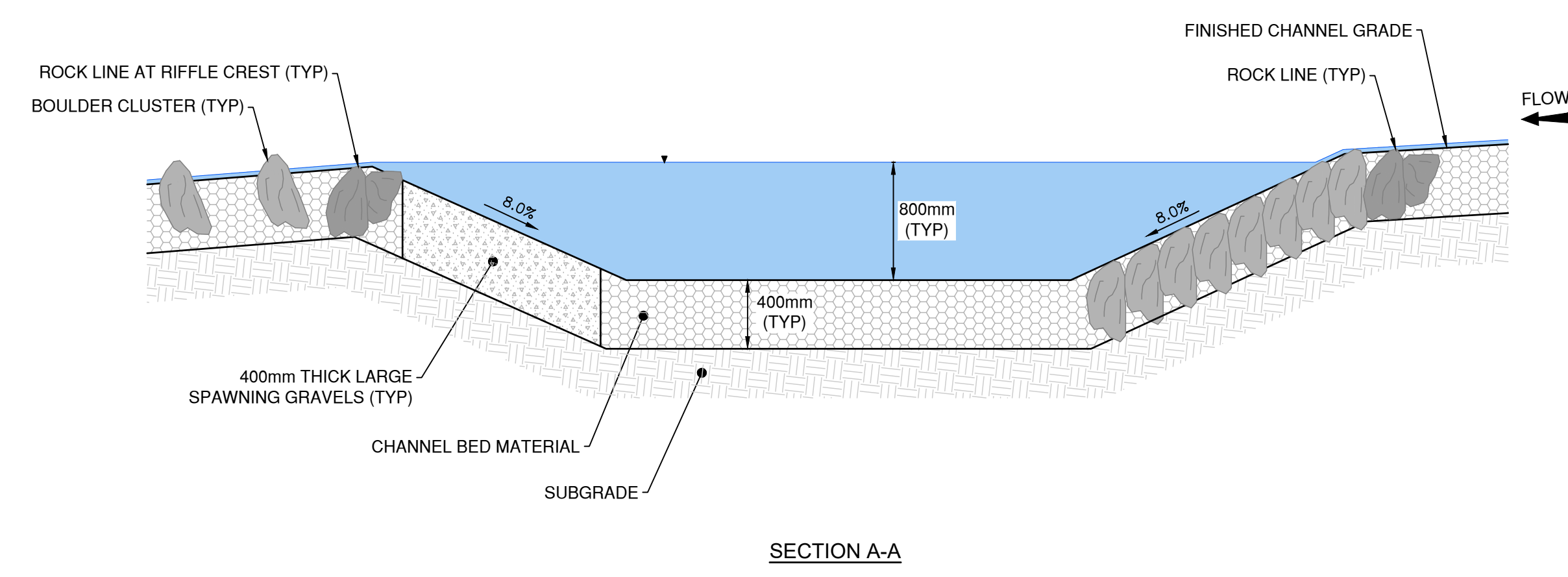
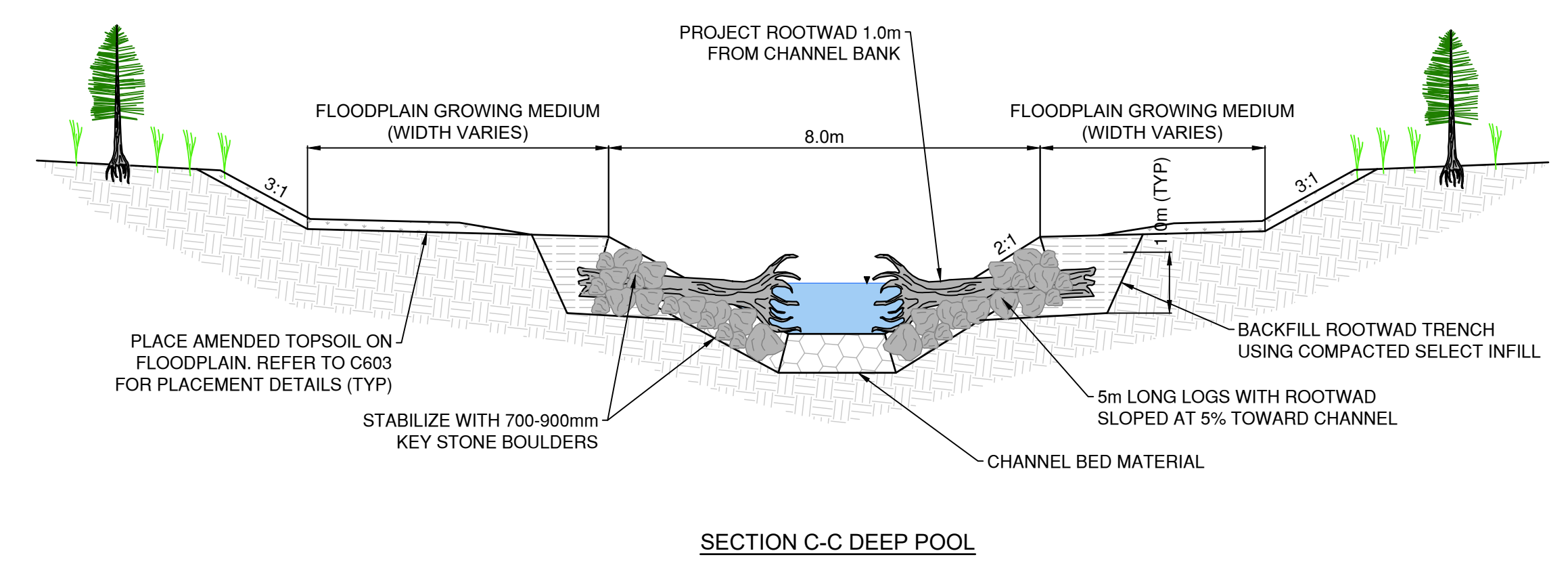
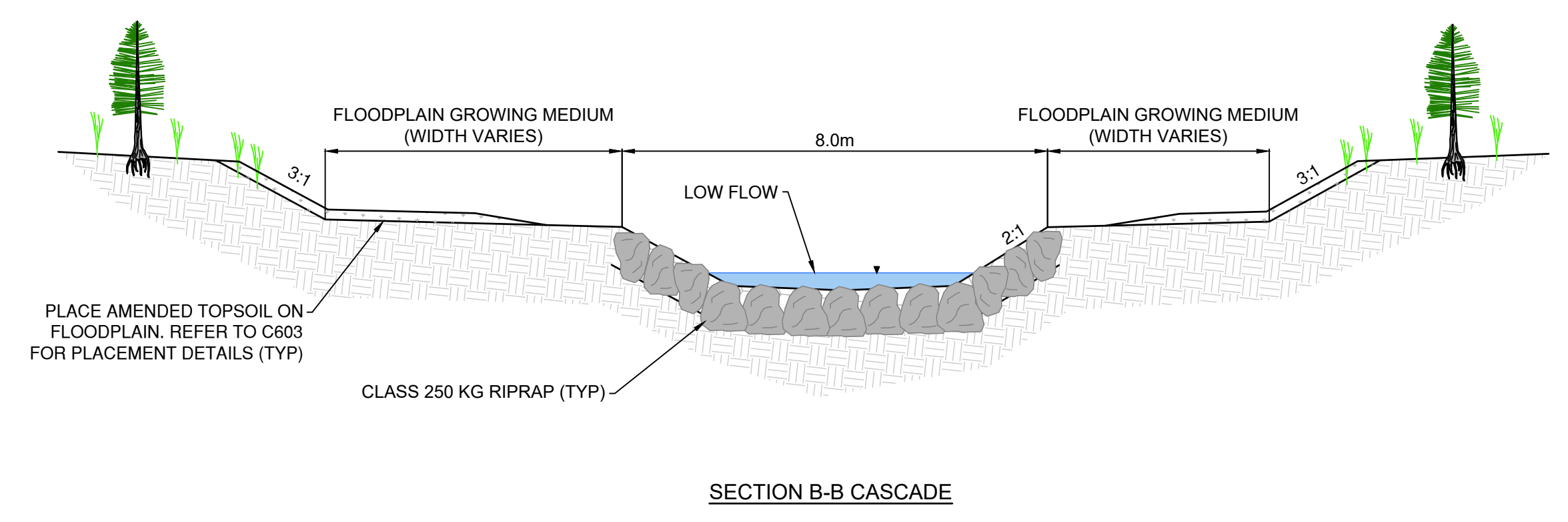
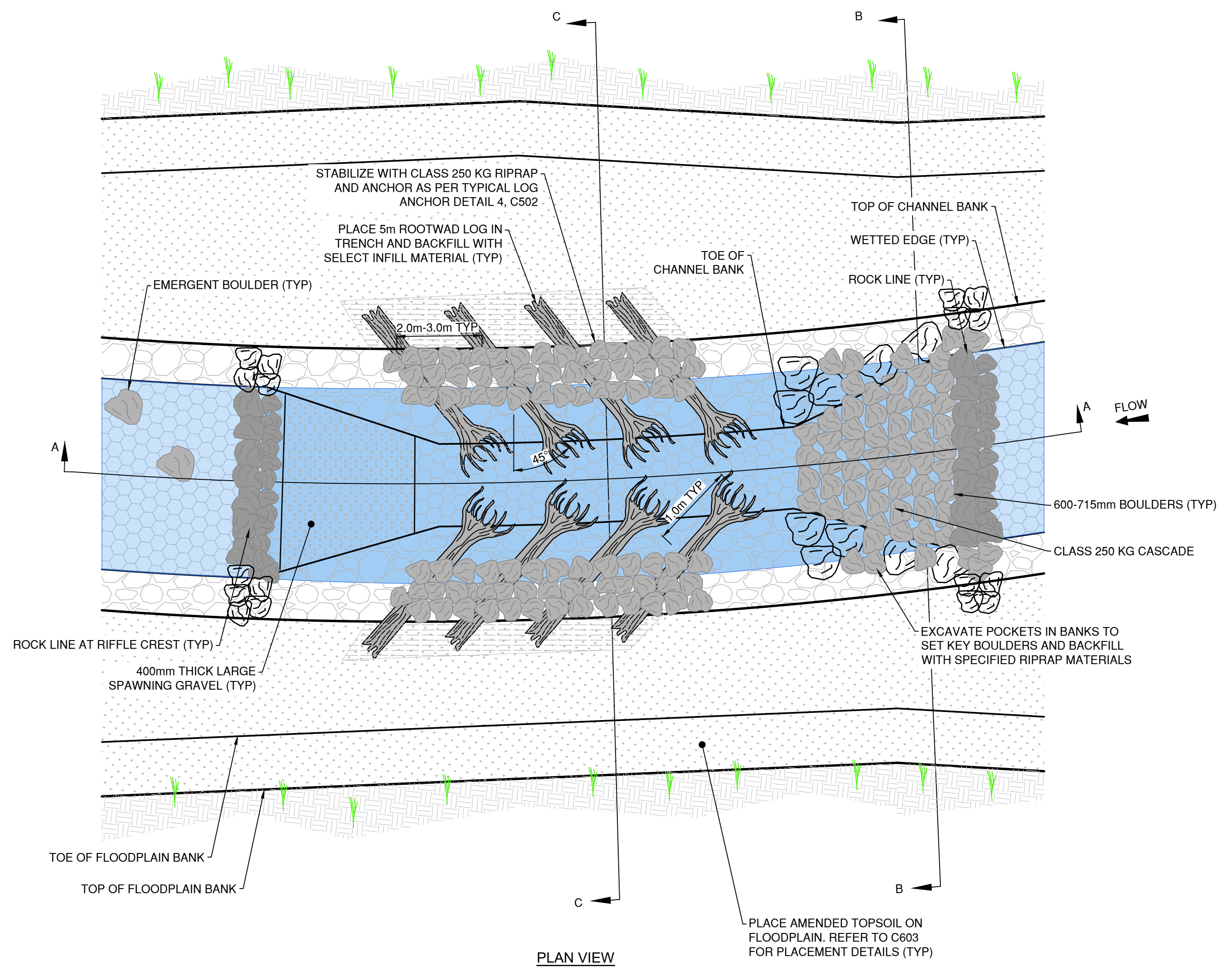
POLSON PARK NATURALIZATION  
REACH 1

DRAWING NUMBER  
C503



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01.11.2023



- NOTES:**
- EXCAVATE TO SUBGRADE SURFACE
  - INSTALL ROOTWADS IN TRENCH AT 5% SLOPE TOWARDS THE CHANNEL WITH THE ROOTWAD 1m INTO THE CHANNEL FROM THE BANK
  - ANCHOR ROOTWADS AS PER TYPICAL LOG ANCHOR DETAIL
  - PLACE CLASS 250 KG RIPRAP BALLAST OVER LOGS
  - FORM BANKS FROM CLASS 250 KG RIPRAP
  - BACKFILL TRENCH WITH SELECT INFILL MATERIAL
  - INSTALL ROCK LINE, KEYSTONES AND CASCADE INTO THE DEEP POOL
  - PLACE CHANNEL BED MATERIAL AND WASH IN GRAVEL INFILL MATERIAL
  - PLACE LARGE SPAWNING GRAVELS AS PER TYPICAL DETAIL
  - ENSURE POOL IS NOT INFILLED BEYOND DESIGNED POOL DEPTH

**7** DEEP POOL DETAIL  
C504 NTS

ISSUE No.	DATE	DESIGNED	DRAWN	CHECKED	DESCRIPTION
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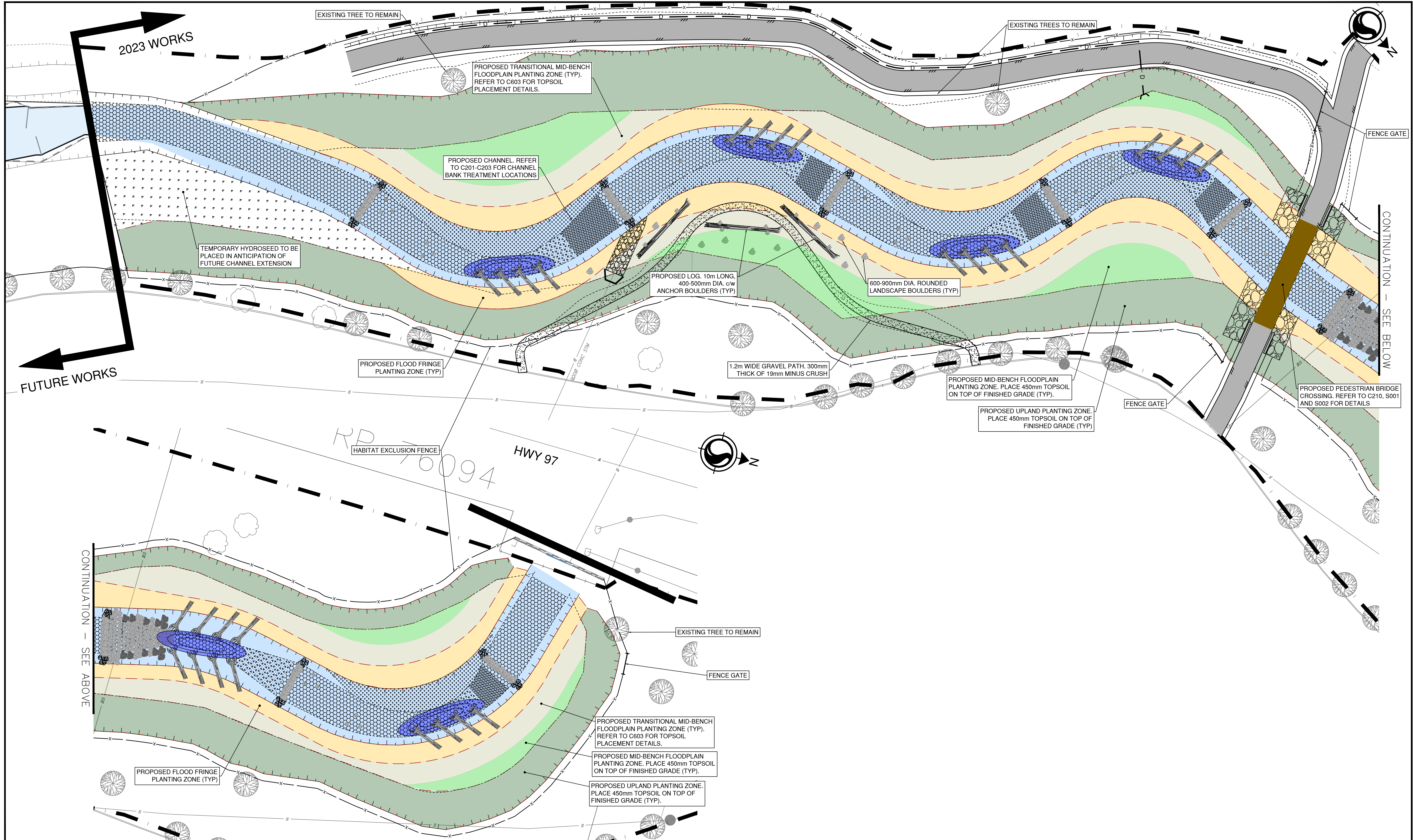


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SHEET  
22 of 28

TITLE  
**TYPICAL CHANNEL DETAILS**  
  
POLSON PARK NATURALIZATION  
REACH 1

DRAWING NUMBER  
C504





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01.11.2023

ISSUE No.	DATE	DESIGNED	DRAWN	CHECKED	DESCRIPTION
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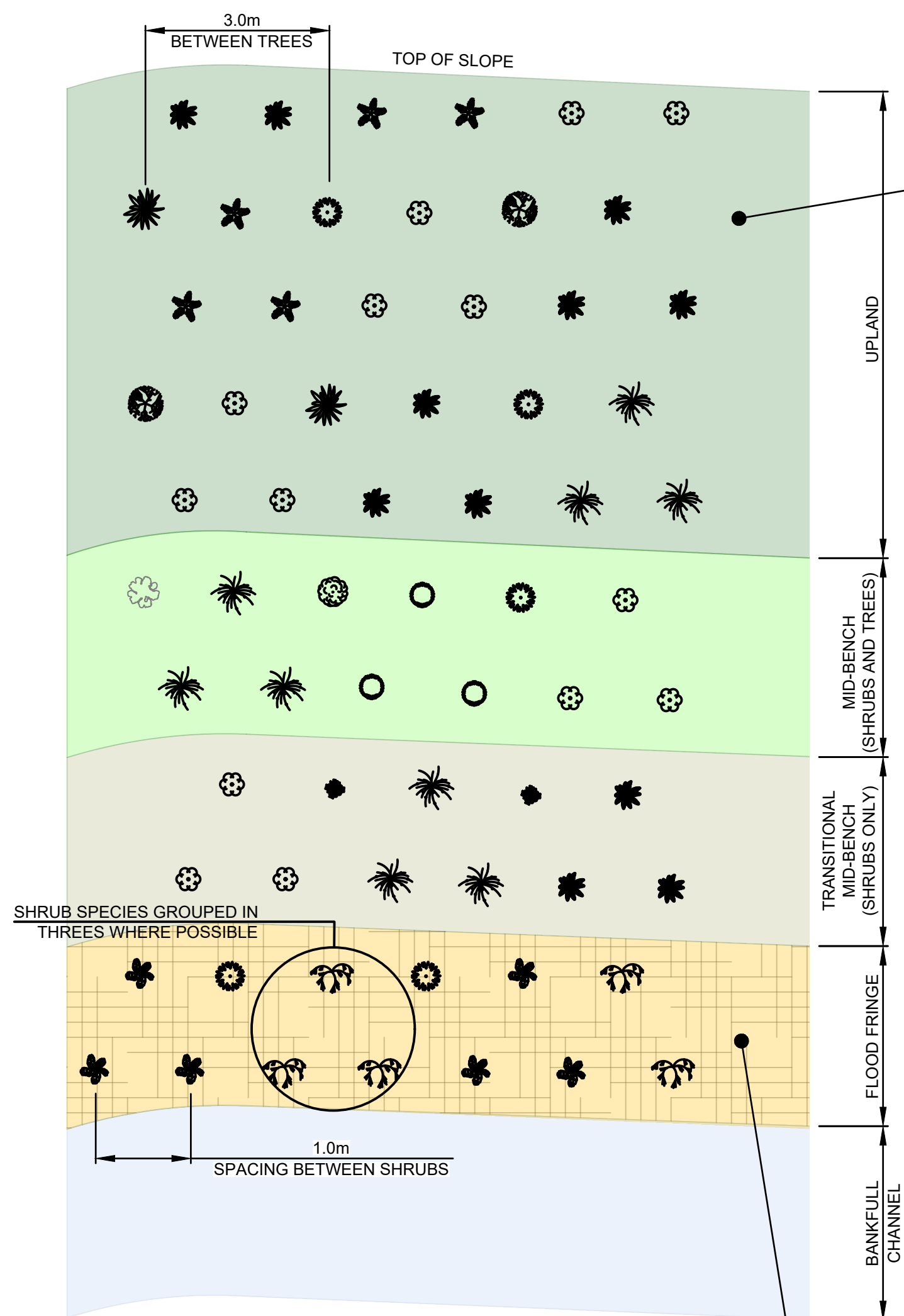


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23 OF 28

TITLE  
**PLANTING PLAN**  
  
POLSON PARK NATURALIZATION  
REACH 1

DRAWING NUMBER  
C601

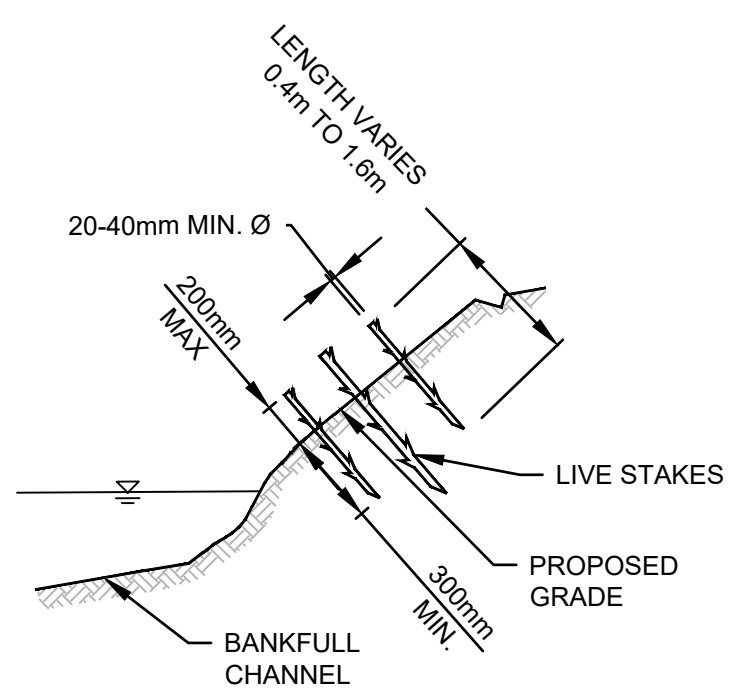




REFER TO C603 FOR TOPSOIL PLACEMENT DETAIL



TYPICAL NO. 1 POT PLANTING DETAIL  
SCALE: NOT TO SCALE



TYPICAL LIVE STAKE PLANTING DETAIL  
SCALE: NOT TO SCALE

PLANTING ZONE	COMMENT	FORM	SCIENTIFIC NAME	COMMON NAME	ON-CENTER SPACING (m)	SIZE	QUANTITY	
Flood Fringe	Offsetting BX Creek	Trees	Populus trichocarpa	black cottonwood	3	live-stake	43	
	Offsetting BX Creek	Shrubs	Cornus sericea	red-osier dogwood	1	live-stake	393	
	Offsetting BX Creek		Salix drummondiana	Drummond's willow	1	live-stake	405	
Mid-bench	Offsetting Polson Park	Trees	Populus trichocarpa	black cottonwood	3	1.5m height	21	
	Offsetting Polson Park		Picea engelmannii x glauca	hybrid white x Engelmann spruce	4	1.5m height	9	
	Offsetting Polson Park		Pseudotsuga menziesii	interior Douglas-fir	4	1.5m height	5	
	Offsetting Vernon Airport		Picea engelmannii x glauca	hybrid white x Engelmann spruce	3	#1 pot	4	
	Offsetting Vernon Airport		Pseudotsuga menziesii	interior Douglas-fir	3	#1 pot	3	
	Offsetting Vernon Airport		Picea engelmannii x glauca	hybrid white x Engelmann spruce	3	#1 pot	31	
	Offsetting Vernon Airport		Pseudotsuga menziesii	interior Douglas-fir	3	#1 pot	18	
	Offsetting Vernon Airport		Cornus sericea	red-osier dogwood	2	#1 pot	11	
	Offsetting Vernon Airport		Symphoricarpos albus	common snowberry	2	#1 pot	11	
	Upland	Offsetting Vernon Airport	Shrubs	Acer glabrum	Douglas maple	2	#1 pot	11
		Offsetting Vernon Airport		Mahonia aquifolium	tall Oregon-grape	2	#1 pot	7
		Offsetting Vernon Airport		Rosa nutkana	Nootka rose	2	#1 pot	7
		Offsetting Vernon Airport		Amelanchier alnifolia	Saskatoon	2	#1 pot	5
		Offsetting Vernon Airport		Ribes lacustre	black gooseberry	2	#1 pot	5
		Offsetting Vernon Airport		Salix bebbiana	Bebb's Willow	2	#1 pot	5
		Offsetting Vernon Airport		Cornus sericea	red-osier dogwood	2	#1 pot	93
		Offsetting Vernon Airport		Symphoricarpos albus	common snowberry	2	#1 pot	93
		Offsetting Vernon Airport		Acer glabrum	Douglas maple	2	#1 pot	93
Offsetting 43rd St		Trees	Pseudotsuga menziesii	Douglas-fir	3	#1 pot	53	
Offsetting Polson Park			Pseudotsuga menziesii	Douglas-fir	3	1.5m height	17	
Offsetting Polson Park			Pinus ponderosa	Ponderosa pine	3	1.5m height	17	
Offsetting Polson Park			Populus trichocarpa	black cottonwood	3	1.5m height	6	
Offsetting Polson Park			Populus tremuloides	trembling aspen	3	1.5m height	6	
Offsetting Polson Park			Pinus ponderosa	Ponderosa pine	3	#1 pot	68	
Upland		Shrubs	Populus trichocarpa	black cottonwood	3	live-stake	22	
			Populus tremuloides	trembling aspen	3	#1 pot	22	
			Mahonia aquifolium	tall Oregon-grape	2	#1 pot	226	
			Rosa nutkana	Nootka rose	2	#1 pot	226	
			Amelanchier alnifolia	Saskatoon	2	#1 pot	226	
			Philadelphus lewisii	Lewis's mock orange	2	#1 pot	169	
			Prunus virginiana	Chokecherry	2	#1 pot	169	

NOTE: THIS TYPICAL ARRANGEMENT DOES NOT CONTAIN ACCURATE QUANTITIES OF EACH SPECIES. INSTEAD THE TYPICAL ARRANGEMENT ONLY APPROXIMATES THESE PROPORTIONS. REFER TO THE TABLE FOR QUANTITIES

**SPECIES PLANTING LEGEND**

- DRUMMOND'S WILLOW
- RED OSIER DOGWOOD
- NOOTKA ROSE
- SASKATOON
- TALL OREGON-GRAPE
- BLACK GOOSEBERRY
- CHOKECHERRY
- GENERIC SHRUB
- BLACK COTTONWOOD
- HYBRID WHITE x ENGLEMANN SPRUCE
- INTERIOR DOUGLAS FIR
- DOUGLAS FIR
- PONDEROSA PINE

SEED AND PLANTINGS (PER DRAWING C601) COVERED BY ROLLMAX BIONET C700BN BIODEGRADABLE EROSION CONTROL MATTING (OR EQUIVALENT APPROVED BY ENGINEER) TRENCHED ON BOTH ENDS AND STAKED AS SHOWN.

**NOTES:**

- PLACE 450mm OF TOPSOIL ON TOP OF FINISHED GRADE OF THE MID-BENCH FLOODPLAIN AND UPLAND PLANTING ZONES. TOPSOIL CAN BE SLIGHTLY COMPACTED BY WALKING A TRACKED EXCAVATOR OVER IT UP/DOWN SLOPE SO THAT THE TREADS ARE ON CONTOUR. REFER TO DETAIL ON C603 FOR FURTHER TOPSOIL PLACEMENT DETAILS.
- APPLY SEED TO BARE GROUND PORTIONS OF THE PLANTING AREA HYDRAULICALLY AT A RATE OF 50 kg/ha WITH 560 kg/ha OF WOOD FIBRE MULCH. THE PRESCRIBED SEED MIX FOR USE IS DEFINED IN THE SEED MIX TABLES ON THIS SHEET.
- PLANT SPECIES SPECIFIED ABOVE HAVE BEEN PRESCRIBED BASED ON LOCAL SITE CONDITIONS. SUBSTITUTIONS OF PLANT SPECIES, PROPORTIONS, OR LAYOUTS MUST BE APPROVED BY THE DESIGN ECOLOGIST PRIOR TO IMPLEMENTING CHANGES. PLANT STOCK SHOULD BE INSPECTED BY A DESIGN ECOLOGIST PRIOR TO COMMENCING PLANTING WORKS.

**TYPICAL PLANTING ARRANGEMENT - PLAN**

**FLOOD FRINGE / MID-BENCH RECLAMATION SEED MIX**

COMMON NAME	SCIENTIFIC NAME	PERCENT BY WEIGHT
Spike bentgrass	<i>Agrostis exarata</i>	20
California oatgrass	<i>Danthonia californica</i>	5
Tufted harigrass	<i>Deschampsia cespitosa</i>	5
Blue wildrye	<i>Elymus glaucus</i>	15
Slender wheatgrass	<i>Elymus trachycaulus</i>	20
Western wheatgrass	<i>Pascoyrum smithii</i>	20
Fowl bluegrass	<i>Poa palustris</i>	15

**UPLAND RECLAMATION SEED MIX**

COMMON NAME	SCIENTIFIC NAME	PERCENT BY WEIGHT
Spike bentgrass	<i>Agrostis exarata</i>	10
Blue wildrye	<i>Elymus glaucus</i>	10
Slender wheatgrass	<i>Elymus trachycaulus</i>	10
Idaho fescue	<i>Festuca idahoensis</i>	20
Prairie junegrass	<i>Koeleria macrantha</i>	20
Western wheatgrass	<i>Pascoyrum smithii</i>	10
Bluebunch wheatgrass	<i>Pseudoroegneria spicata</i>	20

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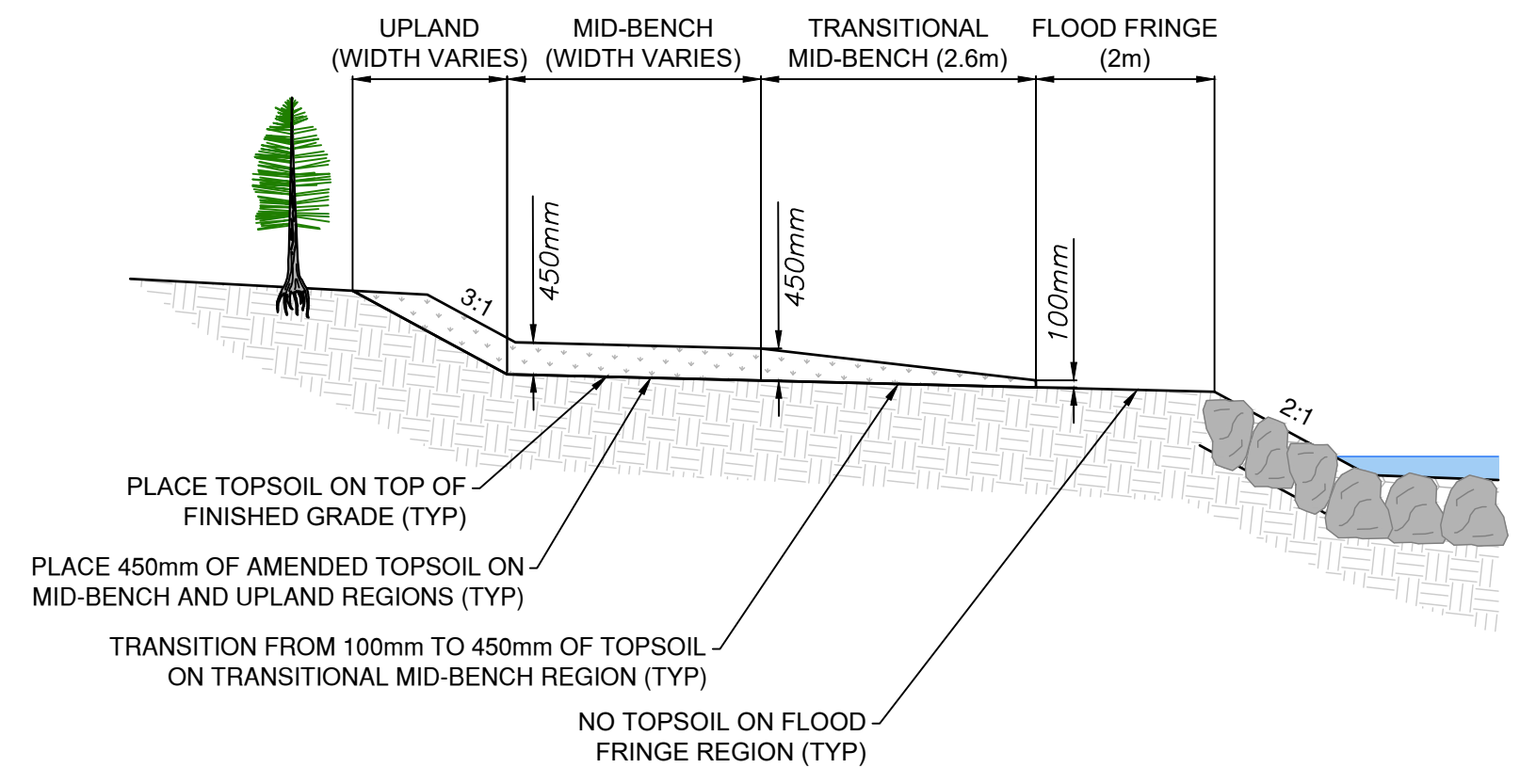


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TITLE  
**PLANTING DETAILS**  
  
**POLSON PARK NATURALIZATION REACH 1**

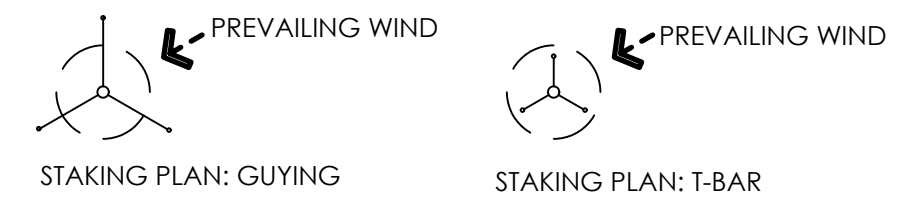
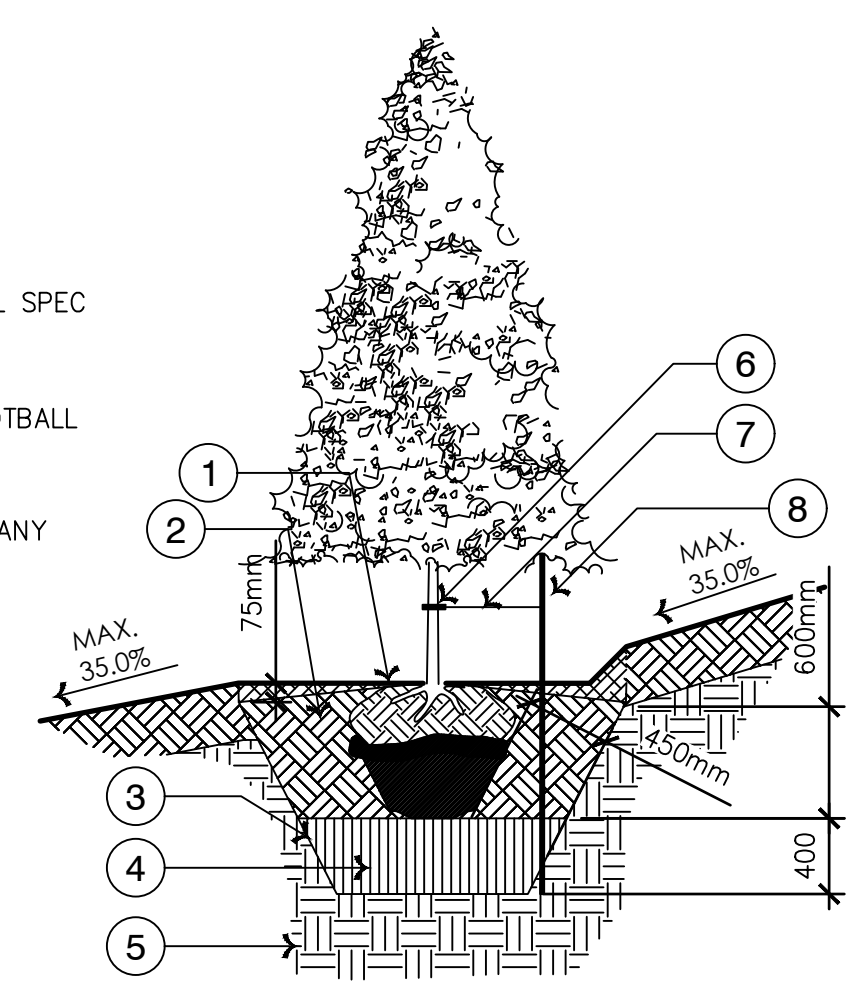
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**TYPICAL TOPSOIL PLACEMENT SECTION**  
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- ① TRUNK FLARE AT GRADE
- ② TOP SOIL, REFER TO TOP SOIL SPEC
- ③ SCARIFY SIDES OF TREE PIT
- ④ COMPACTED CLAY BELOW ROOTBALL
- ⑤ SUB-SOIL
- ⑥ RUBBER STRAP TO PREVENT ANY CONTACT BETWEEN WIRE AND TREE
- ⑦ 11 GAUGE GUY WIRE OR APPROVED ALTERNATIVE
- ⑧ USE THREE 1800mm PAINTED T-BARS



- NOTES:**
- TREES TO BE OVERSEEDDED UNLESS OTHERWISE NOTED.
  - PRUNE AWAY ANY GIRDLING ROOTS.
  - PRUNE BROKEN AND FRAYED ROOT ENDS WITH SECATEURS.
  - HOLD TRUNK VERTICAL. BACKFILL AROUND ROOTS WITH TOPSOIL, CONTINUOUSLY PACKING THE SOIL UNTIL FIRM. DO NOT ALLOW AIR POCKETS TO FORM.
  - TREE SHOULD BE PLANTED 75mm – 100mm BELOW GROUND LEVEL.
  - IF TREE IS IN A WIRE BASKET, CUT AND REMOVE STRAPPING AND THE HORIZONTAL/VERTICAL WIRES OF THE UPPER 1/3 AS A MINIMUM. PULL BACK BURLAP TO THE SAME MINIMUM.
  - T-BARS SHOULD BE HAMMERED DOWN INTO SOLID FOOTING (MINIMUM 400mm INTO SUBSOIL).
  - STAKING TO BE IN PLACE FOR A MAXIMUM OF ONE YEAR, WHEN REQUIRED.
  - STAKE BEYOND EDGE OF ROOT BALL.
  - USE RUBBER STRAPS (TO PROTECT THE TREE) AT POINT OF CONTACT WITH TRUNK.
  - PRUNE DEAD / DYING / DISEASED BRANCHES TO MAINTAIN NATURAL FORM OF TREE
  - ALL DIMENSIONS IN mm.

**TYPICAL PLANTING DETAIL FOR 1.5m HEIGHT TREE**  
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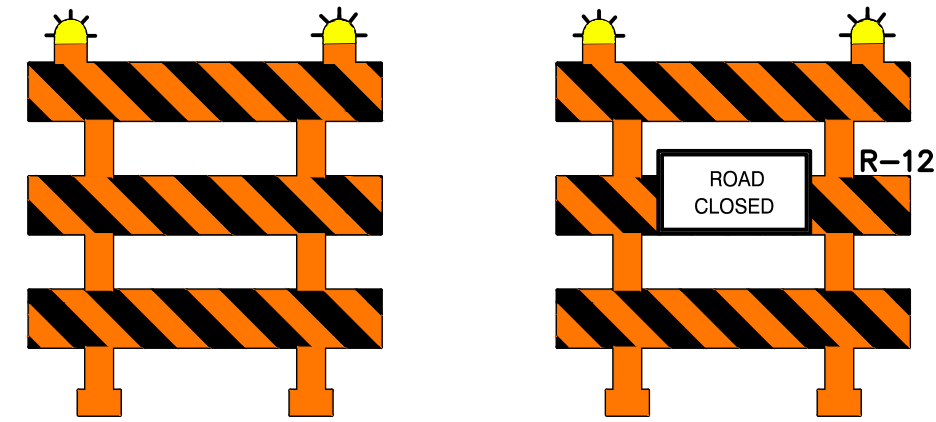
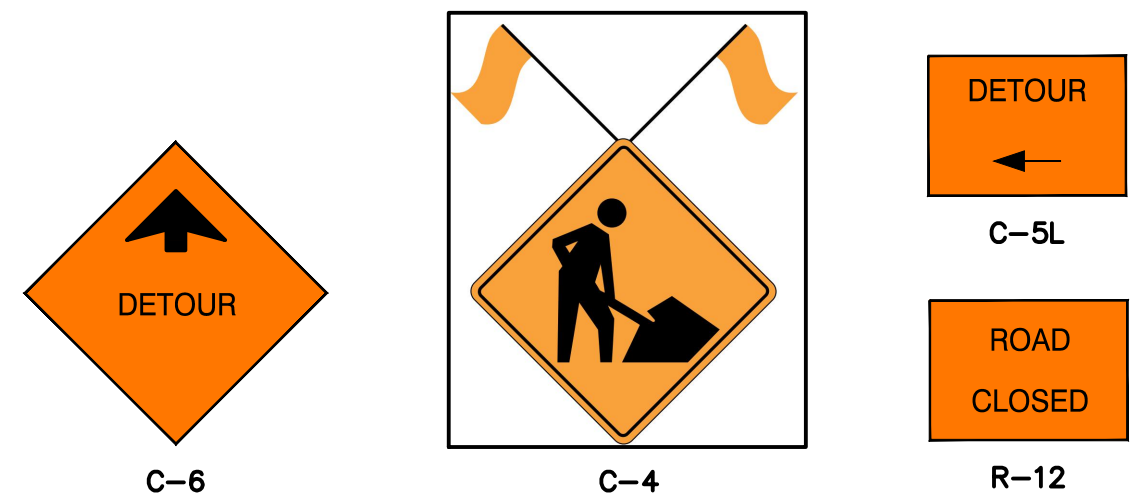
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**DETAIL A**  
CLASS 3 BARRICADE c/w TYPE A YELLOW FLASHERS (TYP.)

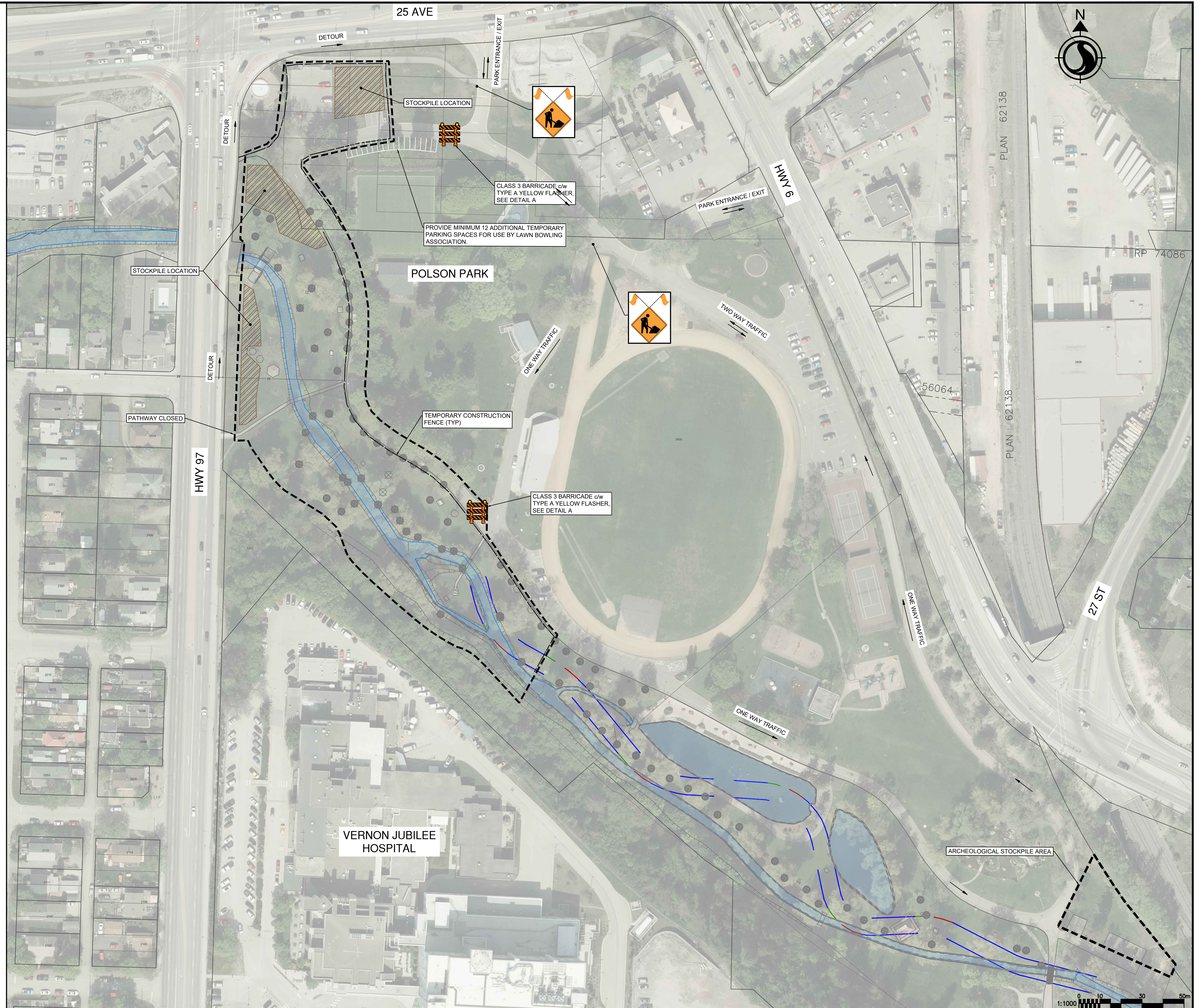


**GENERAL NOTES - TRAFFIC CONTROL**

- CONTRACTOR TO ISOLATE WORK AREA FROM PEDESTRIAN TRAFFIC.
- CONTRACTOR TO MAINTAIN VEHICLE ACCESS AT PARK ENTRANCES AND EXITS AT ALL TIMES.

**TRAFFIC MANAGEMENT NOTES:**

- TRAFFIC MANAGEMENT SIGNAGE PLAN SHOWN IS AN EXAMPLE. CONTRACTOR TO USE AS REFERENCE FOR THEIR TRAFFIC MANAGEMENT PLAN.
- ALL NOTICE OF CONSTRUCTION SIGNAGE SHALL BE IN PLACE FOR THE DURATION OF THE PROJECT.
- ALL CONSTRUCTION SIGNAGE SHALL MOVE WITH THE WORK AREAS AS REQUIRED.
- THE CONTRACTOR SHALL ERECT ALL SIGNAGE AND OBTAIN A PERMIT TO WORK WITHIN CITY RIGHT-OF-WAY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK FOR CONFLICTING INFORMATION ON EXISTING SIGNAGE AND ADVISE THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL COORDINATE WITH AFFECTED BUSINESSES TO MAINTAIN VEHICLE ACCESS AS REQUIRED. MINIMUM SINGLE LANE ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED FOR LOCAL TRAFFIC.
- SIGNAGE AND SPACING SHALL BE IN CONFORMANCE WITH THE BC MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE'S TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS (LATEST EDITION).
- SIGNAGE SHOWN REPRESENTS MINIMAL REQUIREMENTS. THE CONTRACTOR SHALL TAKE OWNERSHIP OF THE TRAFFIC MANAGEMENT PLAN AND MAKE MODIFICATIONS AS THE CONTRACTOR DEEMS NECESSARY WITH THE APPROVAL OF THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR IS TO ENSURE ACCESS TO FIRE HYDRANTS AT ALL TIMES.
- THE CONTRACTOR SHALL COORDINATE WITH EMERGENCY SERVICES WEEKLY FOR ACCESS TO THE AREA.
- THE CONTRACTOR SHALL PROVIDE SAFE ACCESS FOR PEDESTRIANS OUTSIDE THE WORK AREA AT ALL TIMES.
- THE CONTRACTOR SHALL SUPPLY CONTRACT ADMINISTRATOR WITH UPDATED TRAFFIC MANAGEMENT PLANS AS REQUIRED.



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**TITLE**  
TRAFFIC MANAGEMENT PLAN

**POLSON PARK NATURALIZATION REACH 1**

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