

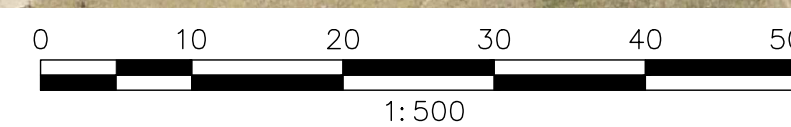
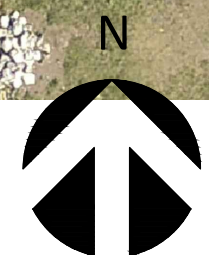
CANMORE CEMETERY - FINAL DESIGN AND NEW COLUMBARIUM

ISSUED FOR TENDER

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1 CONTEXT PLAN
SCALE: 1:500



LANDSCAPE DRAWING LIST

Drawing # Drawing Title

- L0.0 COVER SHEET
- L1.0 EXISTING CONDITIONS
- L2.0 DEMOLITIONS + REMOVAL PLAN
- L3.0 SITE + MATERIALS PLAN
- L4.0 LAYOUT PLAN
- L5.0 PLANTING PLAN
- L6.0 DETAILS- PLANTING
- L7.0 DETAILS- SURFACES
- L7.1 DETAILS- BOULDER RETAINING WALL
- L7.2 DETAILS- COLUMBARIA
- L7.3 DETAILS- FURNISHINGS
- L8.0 IRRIGATION PLAN
- L8.1 DETAILS- IRRIGATION
- L8.2 DETAILS- IRRIGATION

CIVIL DRAWING LIST

DRAWING #	DRAWING TITLE
C-100	SURFACE WORKS AND GRADING PLAN - CREMATION GARDEN

STRUCTURAL DRAWING LIST

S-100	GENERAL NOTES AND COLUMBARIUM FDN DETAILS
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NOTES:

GENERAL WORKMANSHIP

1. CONTRACTOR TO CONFIRM ALL UTILITY SERVICES BEFORE PROCEEDING WITH ANY WORK. CONTRACTOR SHALL INDEPENDENTLY VERIFY UTILITY LOCATIONS, SIZE AND TYPE.
2. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES. OBTAIN WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
3. COLLECT AND DISPOSE OF ALL DEBRIS AND/OR EXCESS MATERIAL FROM LANDSCAPE OPERATIONS. KEEP SURFACES CLEAN AND REPAIR ANY DAMAGE RESULTING FROM LANDSCAPE WORK. ALL REPAIR COSTS ARE THE CONTRACTORS' RESPONSIBILITY.
4. CONFIRM WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK TO CONFIRM WHEN SITE INSPECTION VISITS WILL BE CARRIED OUT.
5. CONTRACTOR SHOULD BE FAMILIAR WITH THE CANMORE ENGINEERING DESIGN AND CONSTRUCTION GUIDELINES. CONTRACTOR TO REFERENCE THE CANMORE ENGINEERING DESIGN AND CONSTRUCTION GUIDELINES FOR THE FOLLOWING:
 - A. WARRANTY PERIOD AND MAINTENANCE REQUIREMENTS
 - B. CONSTRUCTION MANAGEMENT
 - C. SITE PREPARATION, GRADING, TOPSOIL, SEEDING AND SODDING
 - D. PLANT MATERIAL
 - E. IRRIGATION SYSTEMS
6. NO FOOD WASTE ALLOWED IN DUMPSTERS. BEAR PROOF CONTAINERS SUPPLIED BY TOWN MUST BE USED.

RESPECTFUL BEHAVIOR

1. CONTRACTORS AND THEIR STAFF, SUPPLIERS AND SUBTRADES MUST BE AWARE THAT THEY ARE WORKING WITHIN A FUNCTIONING CEMETERY AND THAT VISITATIONS MAY BE TAKING PLACE DURING THE COURSE OF CONSTRUCTION AT THE SITE. RESPECTFUL BEHAVIOR IS EXPECTED AT ALL TIME. CONSTRUCTION ACTIVITIES MUST NOT IMPEDE VEHICLE OR PEDESTRIAN MOVEMENT DURING GRAVE VISITATIONS.
2. CONTRACTOR STOP ALL WORK WHEN AN INTERMENT IS IN PROGRESS FOR "RESPECTFUL MOURNING". TOWN TO GIVE A MINIMUM OF 72 HOURS NOTICE.

ISSUED FOR TENDER
NOT FOR CONSTRUCTION

Client



Project

CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title

COVER SHEET AND DRAWING LIST

Date
OCTOBER, 2022

ELAC Project No.
21-816

Scale (On 22 x 34 Inch Sheet)
As Noted

Drawing No.

Drawn By
LB

L0.0

Checked
HR

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4	MAY 12, 2023	ISSUED FOR TENDER - UPDATE	LB

- EXISTING CONDITIONS LEGEND**
- - - - LIMIT OF WORK
 - CONIFEROUS TREE
 - DECIDUOUS TREE
 - PLANTING
 - BOULDER RETAINING WALL
 - RUNDLE STONE MULCH
 - CIP CONCRETE
 - FLAGSTONE PAVING
 - BENCH

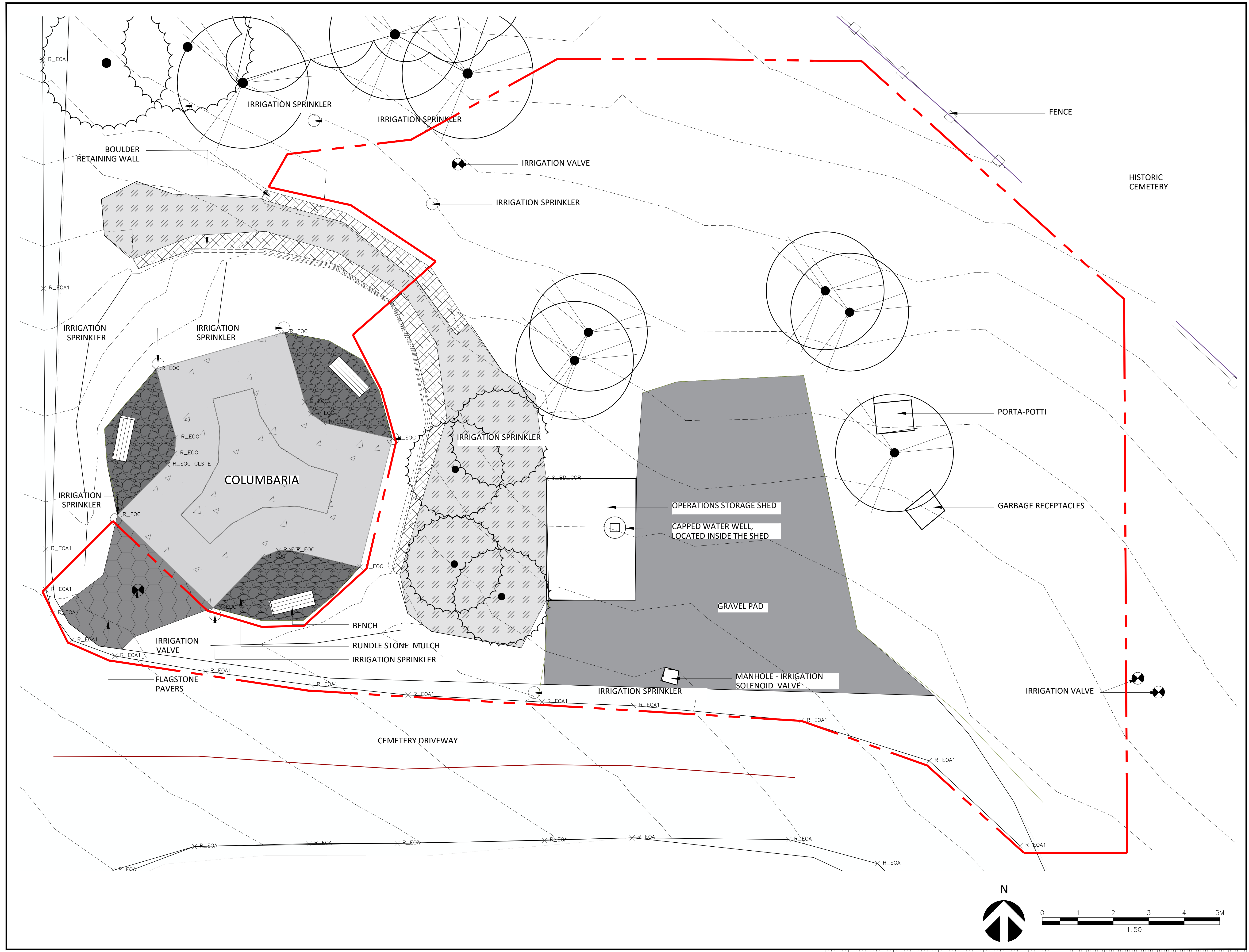
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Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
EXISTING CONDITIONS

Date OCTOBER, 2022	ELAC Project No. 21-816
Scale (On 22 x 34 Inch Sheet) As Noted	Drawing No. L1.0
Drawn By LB	
Checked HR	



Revisions

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LEGEND

- LIMIT OF WORK
- EXTENT OF EXISTING WORK TO BE RETAINED
- AREA TO BE CLEARED
- TREE PROTECTION FENCING
- TREE TO REMAIN
- X TREE TO BE REMOVED
- X TREE TO BE RELOCATED BY TOWN
- RETAINING WALL TO BE REMAIN
- RETAINING WALL TO BE REMOVED

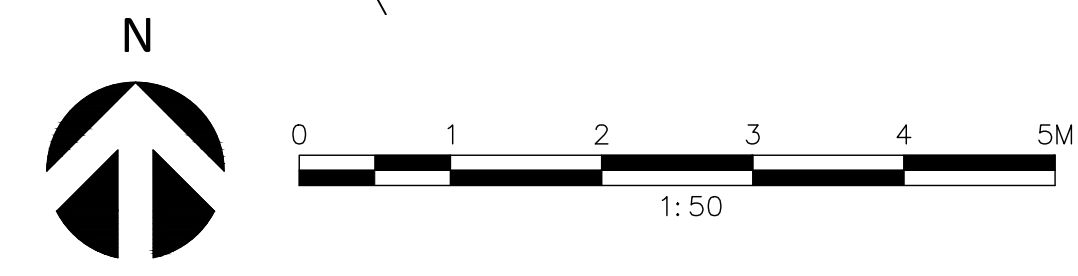
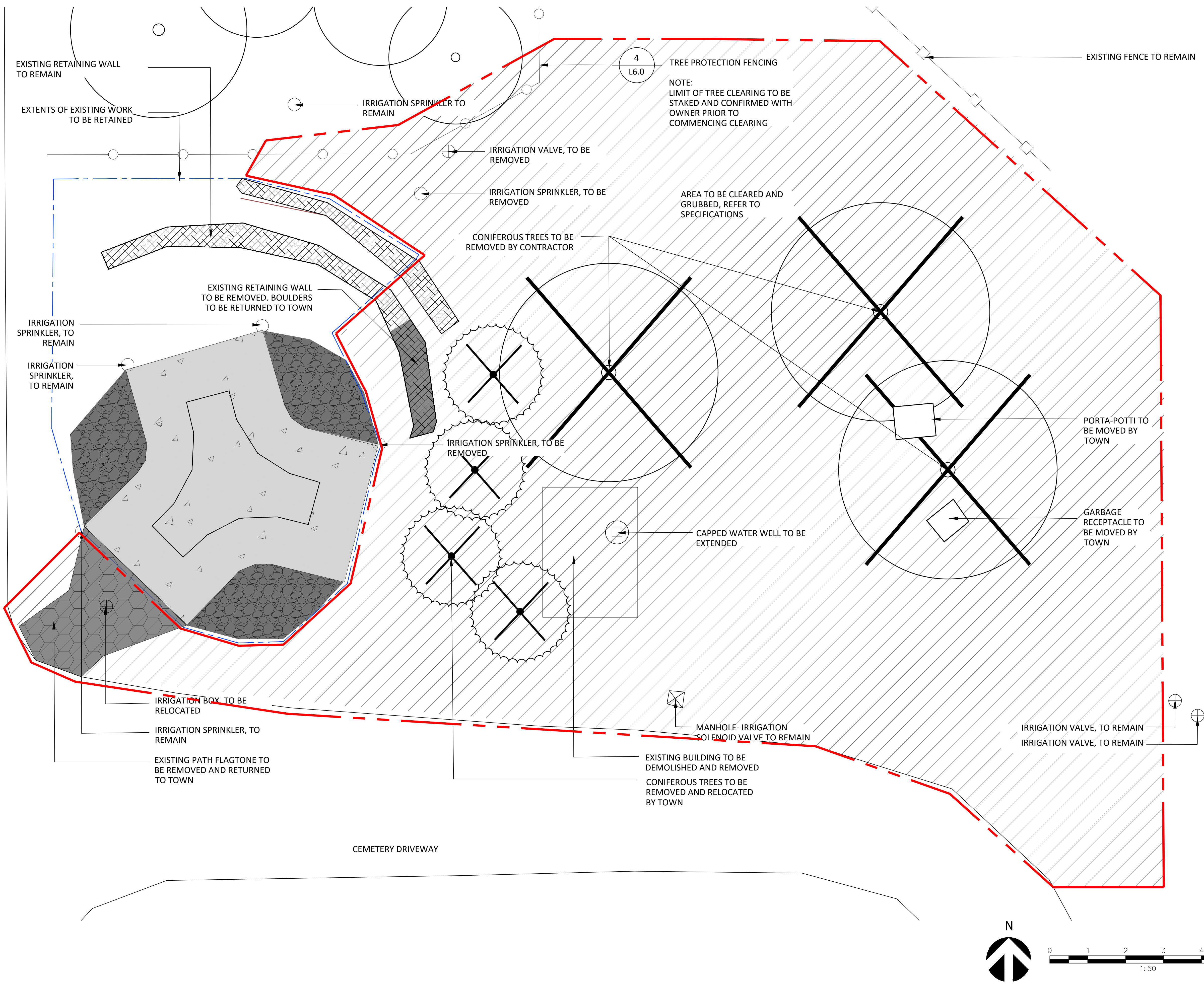
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Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
DEMOLITIONS AND REMOVALS PLAN

Date OCTOBER, 2022	ELAC Project No. 21-816
Scale (On 22 x 34 Inch Sheet) As Noted	Drawing No. L2.0
Drawn By LB	Checked HR



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LEGEND

EXISTING

- LIMIT OF WORK
- CONIFEROUS TREE
- DECIDUOUS TREE
- PLANTING
- BOULDER RETAINING WALL
- RUNDLE STONE MULCH
- CIP CONCRETE
- FLAGSTONE PAVING
- BENCH
- FENCE

PROPOSED

- DECIDUOUS TREE
- BOULDER RETAINING WALL
- BOULDER SEATING
- BENCH
- CIP CONCRETE SURFACING
- PLANTING BED
- LAWN

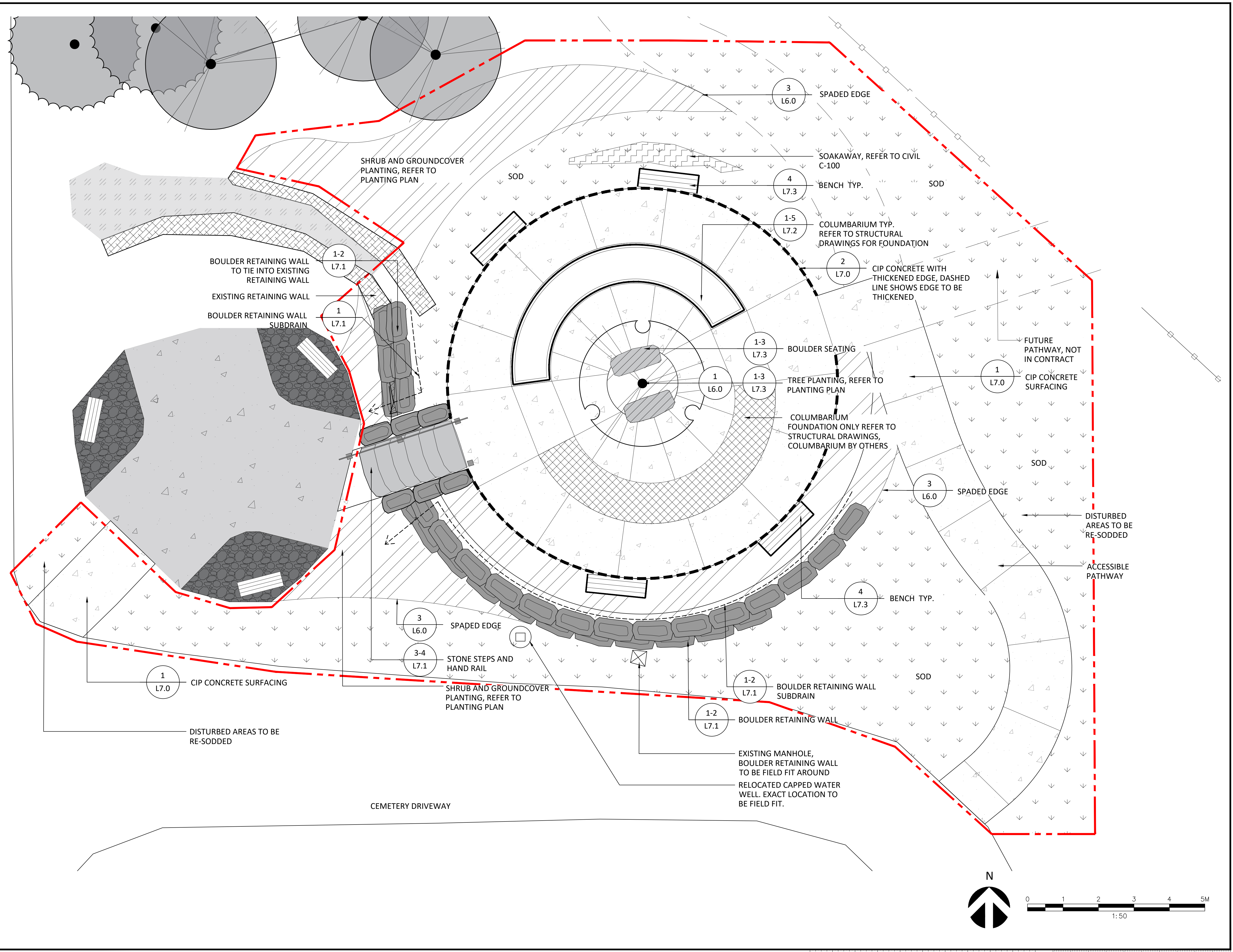
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Client
 Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
SITE + MATERIALS PLAN

Date OCTOBER, 2022	ELAC Project No. 21-816
Scale (On 22 x 34 Inch Sheet) As Noted	Drawing No. L3.0
Drawn By LB	
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LEGEND	
EXISTING	
	- LIMIT OF WORK
	- CONIFEROUS TREE
	- DECIDUOUS TREE
	- PLANTING
	- BOULDER RETAINING WALL
	- RUNDLE STONE MULCH
	- CIP CONCRETE
	- FLAGSTONE PAVING
	- BENCH
	- FENCE
PROPOSED	
	- DECIDUOUS TREE
	- BOULDER RETAINING WALL
	- BOULDER SEATING
	- BENCH
	- CIP CONCRETE SURFACING
	- PLANTING BED
	- LAWN

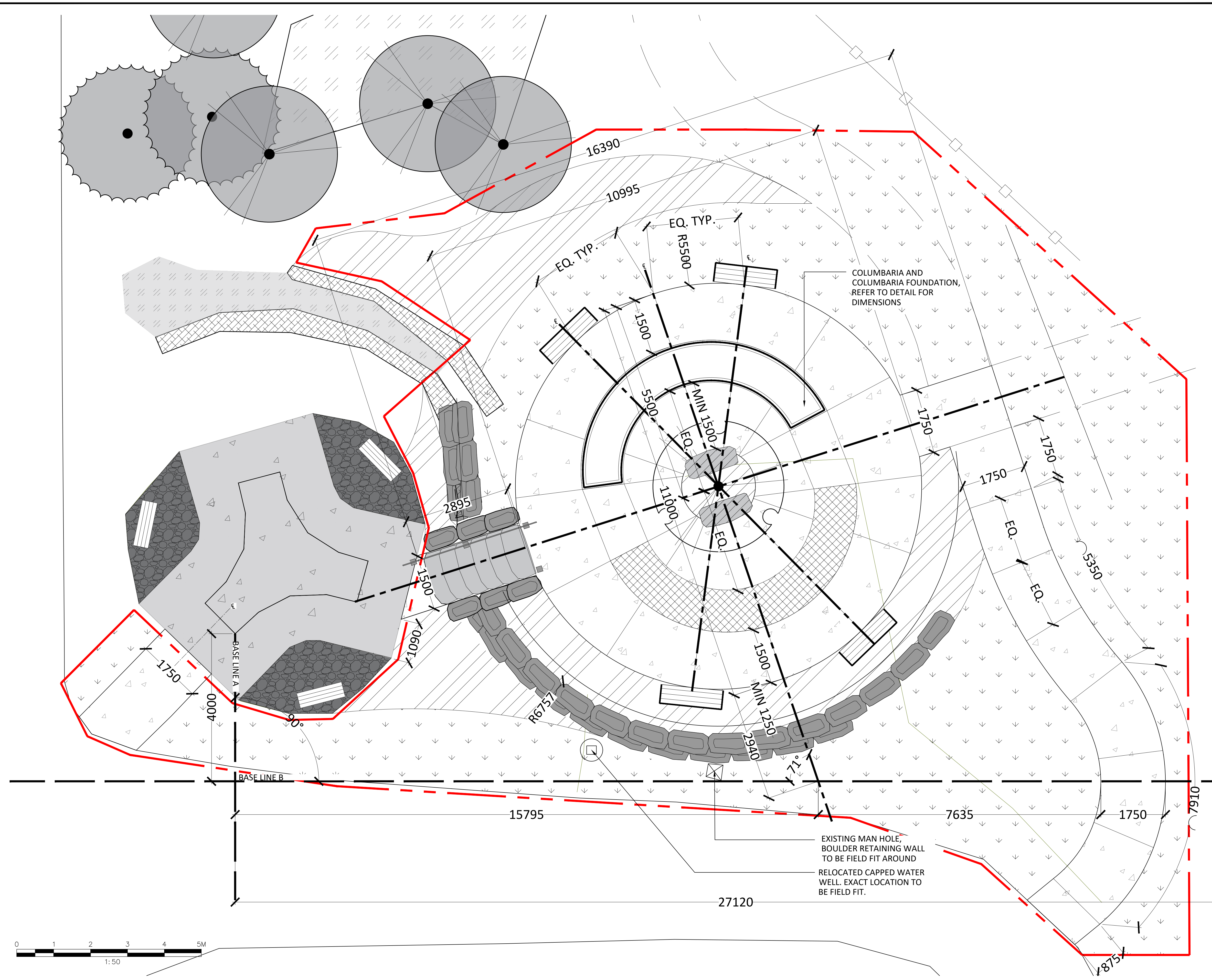
ISSUED FOR TENDER
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Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
LAYOUT PLAN

Date OCTOBER, 2022	ELAC Project No. 21-816
Scale (On 22 x 34 Inch Sheet) As Noted	Drawing No. L4.0
Drawn By LB	
Checked HR	



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LEGEND

EXISTING

- - - - - LIMIT OF WORK
- - CONIFEROUS TREE
- - DECIDUOUS TREE
- ▨ - PLANTING
- ▩ - BOULDER RETAINING WALL
- ▩ - RUNDLE STONE MULCH
- △ - CIP CONCRETE
- ▩ - FLAGSTONE PAVING
- ▩ - BENCH
- ▩ - FENCE

PROPOSED

- - DECIDUOUS TREE
- ▩ - BOULDER RETAINING WALL
- ▩ - BOULDER SEATING
- ▩ - BENCH
- ▩ - CIP CONCRETE SURFACING
- ▩ - PLANTING BED

ISSUED FOR TENDER
 NOT FOR CONSTRUCTION



Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
PLANTING PLAN

Date
OCTOBER, 2022

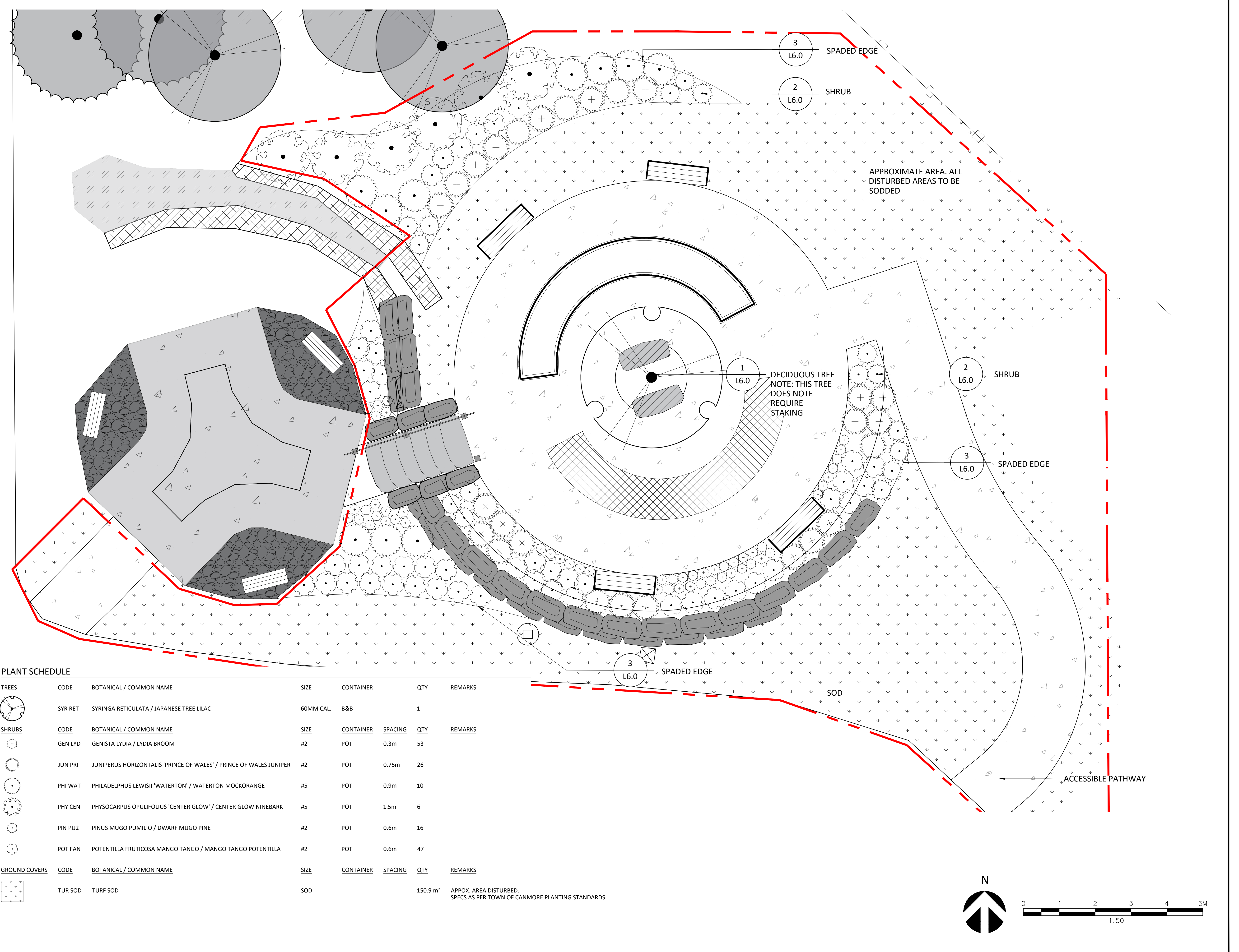
ELAC Project No.
21-816

Scale (On 22 x 34 Inch Sheet)
As Noted

Drawing No.
L5.0

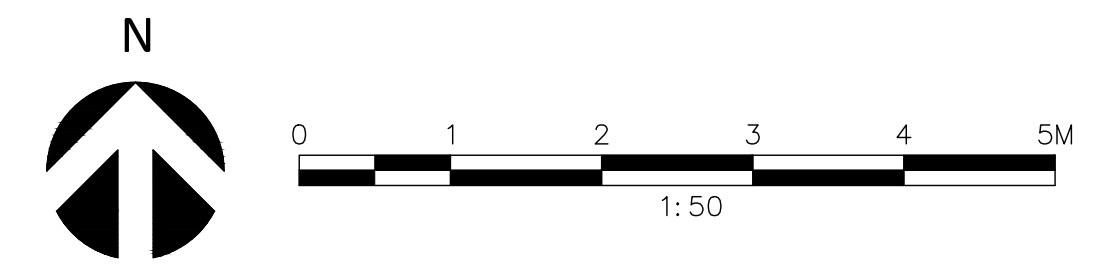
Drawn By
LB

Checked
HR



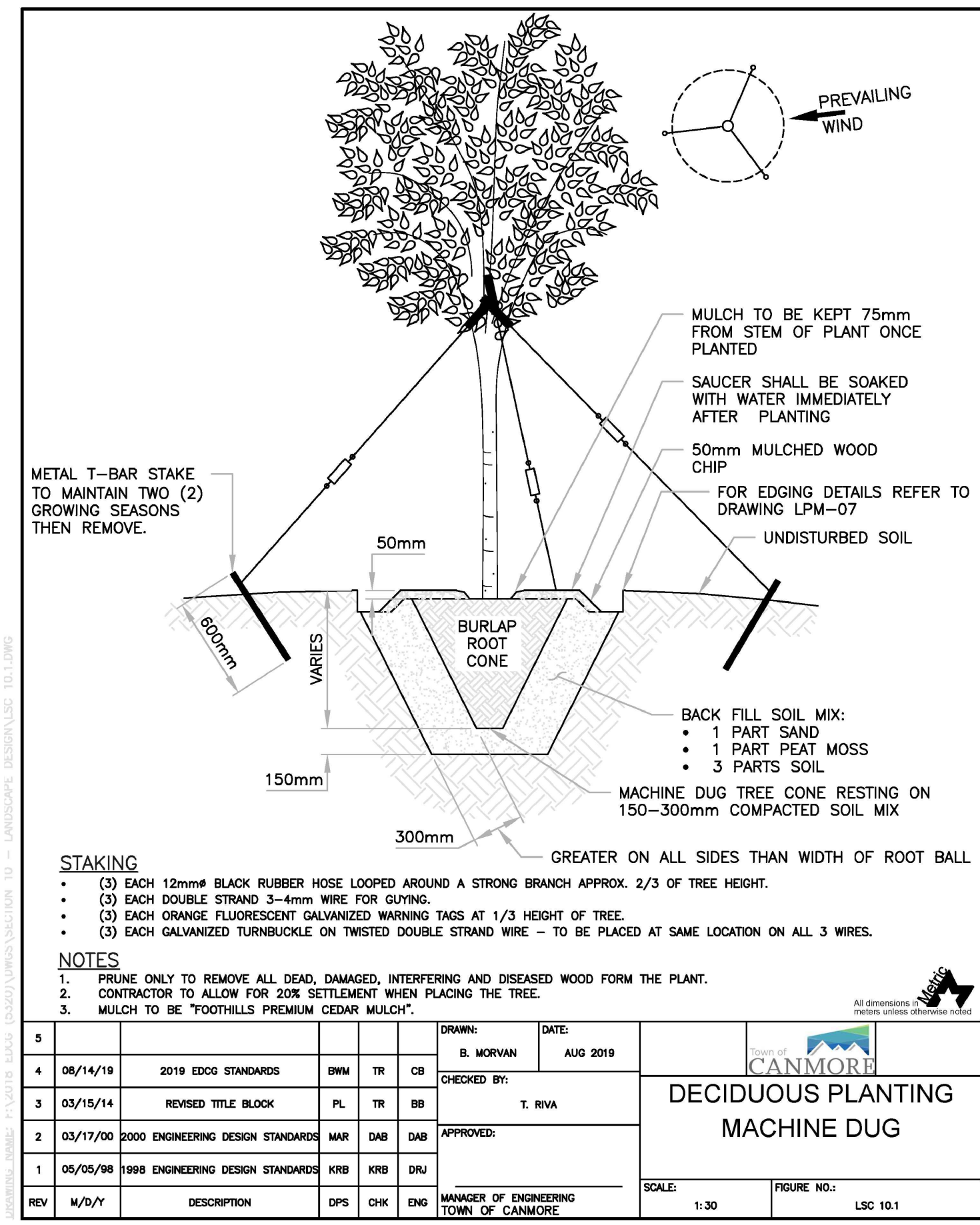
PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	REMARKS	
SYR RET	SYRINGA RETICULATA / JAPANESE TREE LILAC	60MM CAL.	B&B	1			
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING	QTY	REMARKS
GEN LYD	GENISTA LYDIA / LYDIA BROOM	#2	POT	0.3m	53		
JUN PRI	JUNIPERUS HORIZONTALIS 'PRINCE OF WALES' / PRINCE OF WALES JUNIPER	#2	POT	0.75m	26		
PHI WAT	PHILADELPHUS LEWISII 'WATERTON' / WATERTON MOCKORANGE	#5	POT	0.9m	10		
PHY CEN	PHYSOCARPUS OPULIFOLIUS 'CENTER GLOW' / CENTER GLOW NINEBARK	#5	POT	1.5m	6		
PIN PU2	PINUS MUGO PUMILIO / DWARF MUGO PINE	#2	POT	0.6m	16		
POT FAN	POTENTILLA FRUTICOSA MANGO TANGO / MANGO TANGO POTENTILLA	#2	POT	0.6m	47		
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING	QTY	REMARKS
TUR SOD	TURF SOD	SOD				150.9 m ²	APPOX. AREA DISTURBED. SPECS AS PER TOWN OF CANMORE PLANTING STANDARDS

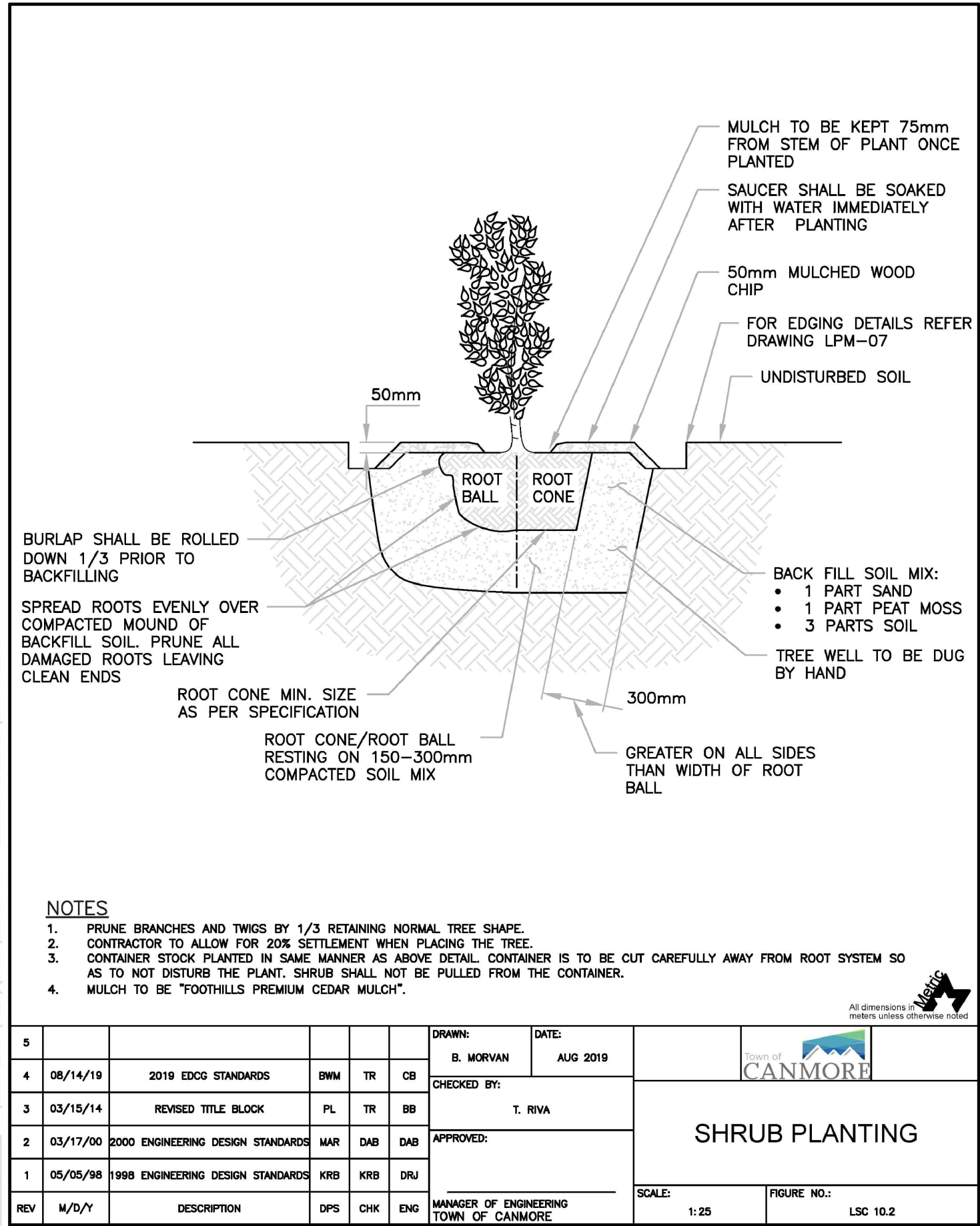


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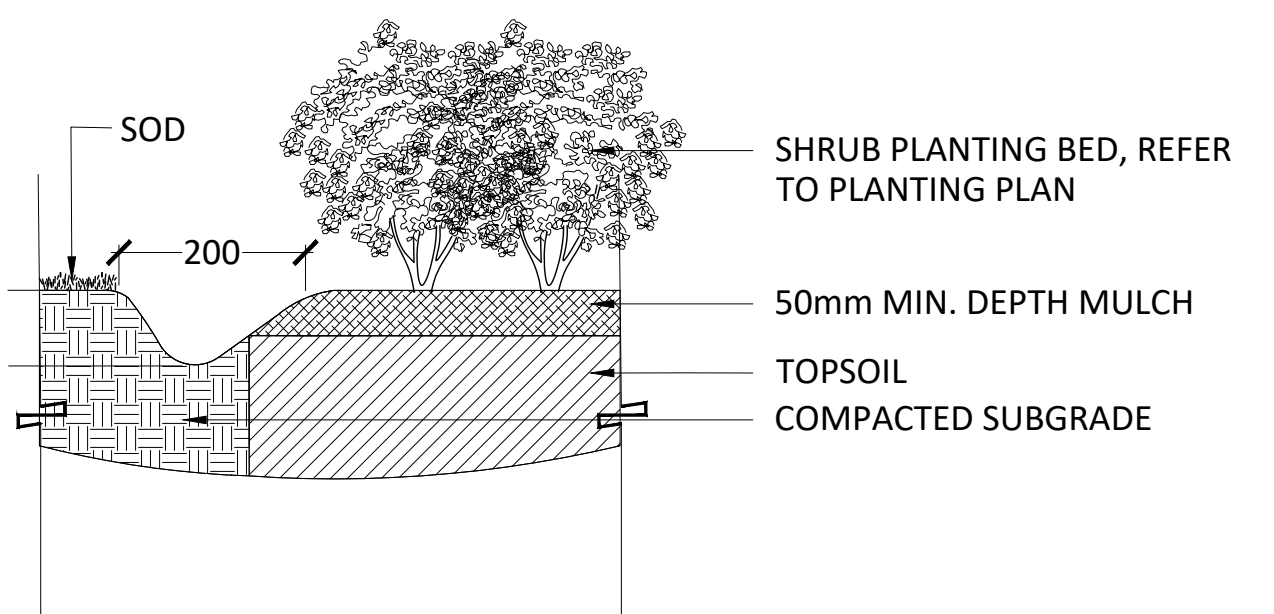


Town of Canmore
 Engineering Design & Construction Guidelines



Town of Canmore
 Engineering Design & Construction Guidelines

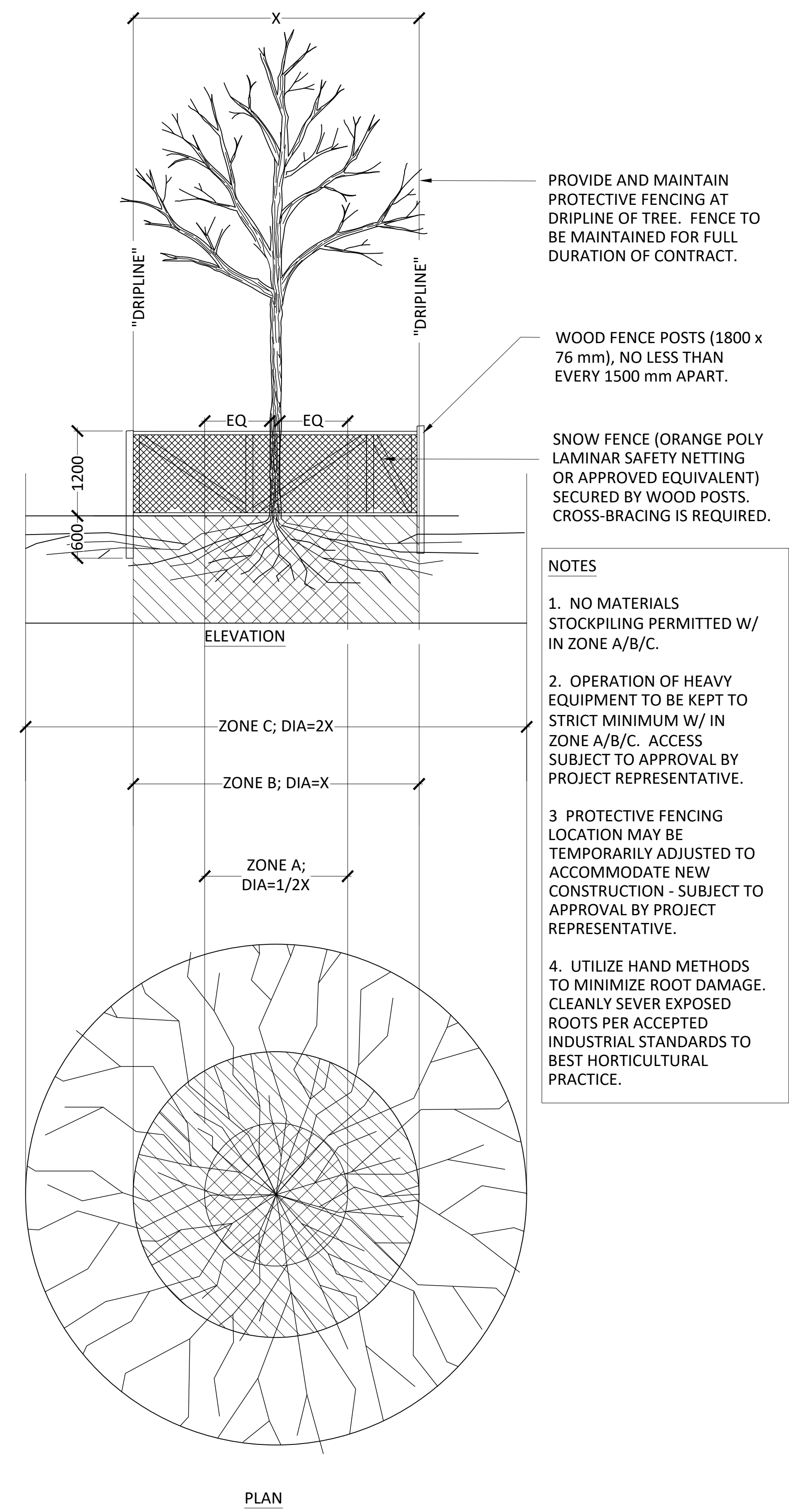
1 DECIDUOUS TREE - TOWN OF CANMORE STANDARD DETAIL
 SCALE: NTS



3 SPADED EDGE - SECTION TYP.
 SCALE: 1:10

2 SHRUB - TOWN OF CANMORE STANDARD DETAIL
 SCALE: NTS

NOTES:
PLANTING NOTES
 1. ALL SODDED AREAS AS PER TOWN OF CANMORE ENGINEERING DESIGN AND CONSTRUCTION GUIDELINES
 2. ALL PLANT MATERIAL, SODDED AREAS, TOPSOIL AND WOOD MULCH TO MEET TOWN OF CANMORE ENGINEERING DESIGN AND CONSTRUCTION GUIDELINES
 3. ALL PLANTS, SOIL PREPARATION, AND MAINTENANCE TO MEET CANADIAN LANDSCAPE STANDARD 2ND ED.
 4. REFER TO PLANTING PLAN FOR LOCATION AND EXTENTS OF PLANTING BEDS SPADED EDGE.



4 TREE PROTECTION FENCING
 SCALE: NTS

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Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
DETAILS PLANTING

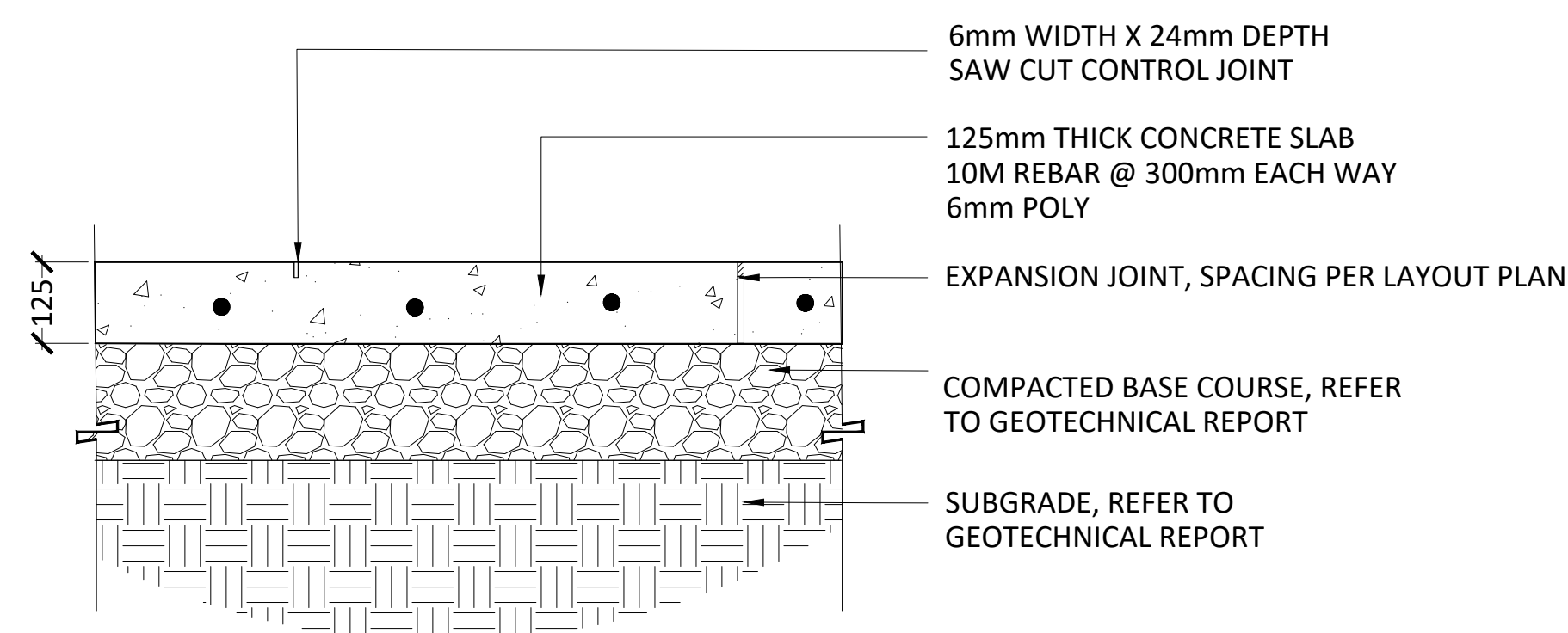
Date OCTOBER, 2022	ELAC Project No. 21-816
Scale (On 22 x 34 Inch Sheet) As Noted	Drawing No. L6.0
Drawn By LB	
Checked HR	

Revisions

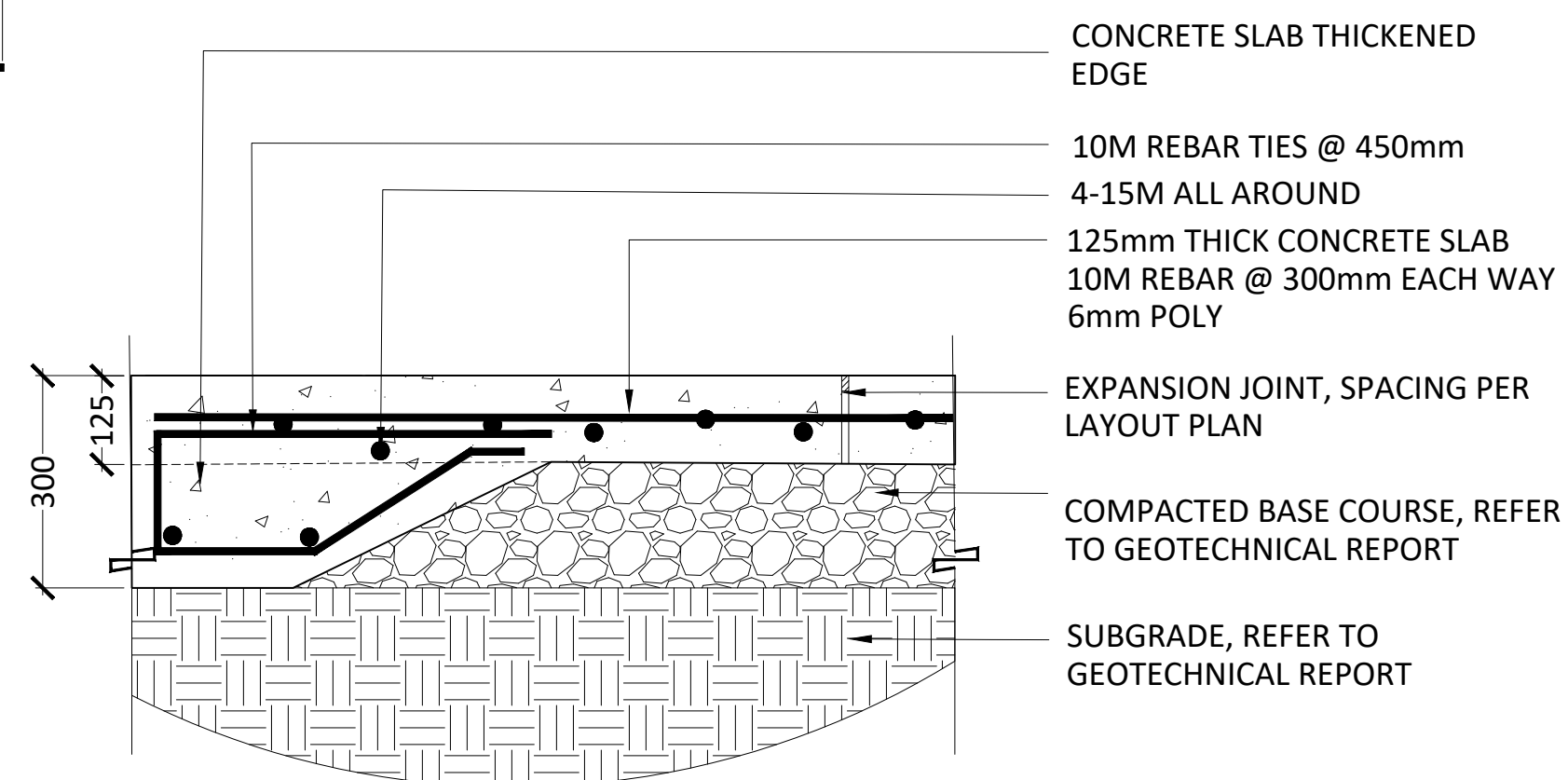
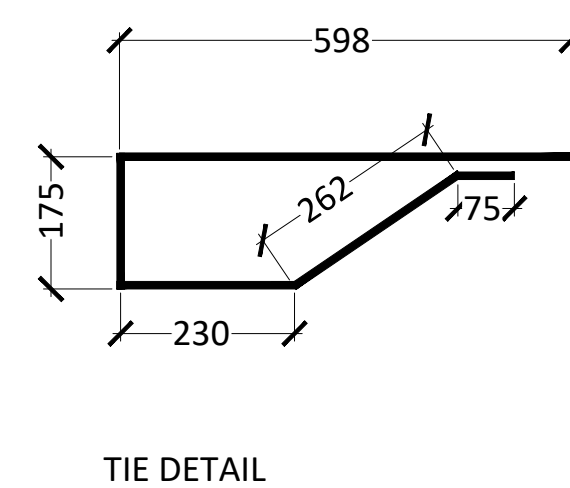
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NOTES

- CIP CONCRETE SURFACING
1. MEDIUM BROOM FINISH
 2. NO TROWEL EDGE
 3. GRADING, REFER TO CIVIL DRAWINGS



1 CIP CONCRETE SURFACING - SECTION TYP.
SCALE: 1:10



2 CIP CONCRETE SURFACE WITH THICKENED EDGE - SECTION TYP.
SCALE: 1:10

ISSUED FOR TENDER
NOT FOR CONSTRUCTION

Client



Project

CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
DETAILS SURFACES

Date
OCTOBER, 2022

ELAC Project No.
21-816

Scale (On 22 x 34 Inch Sheet)
As Noted

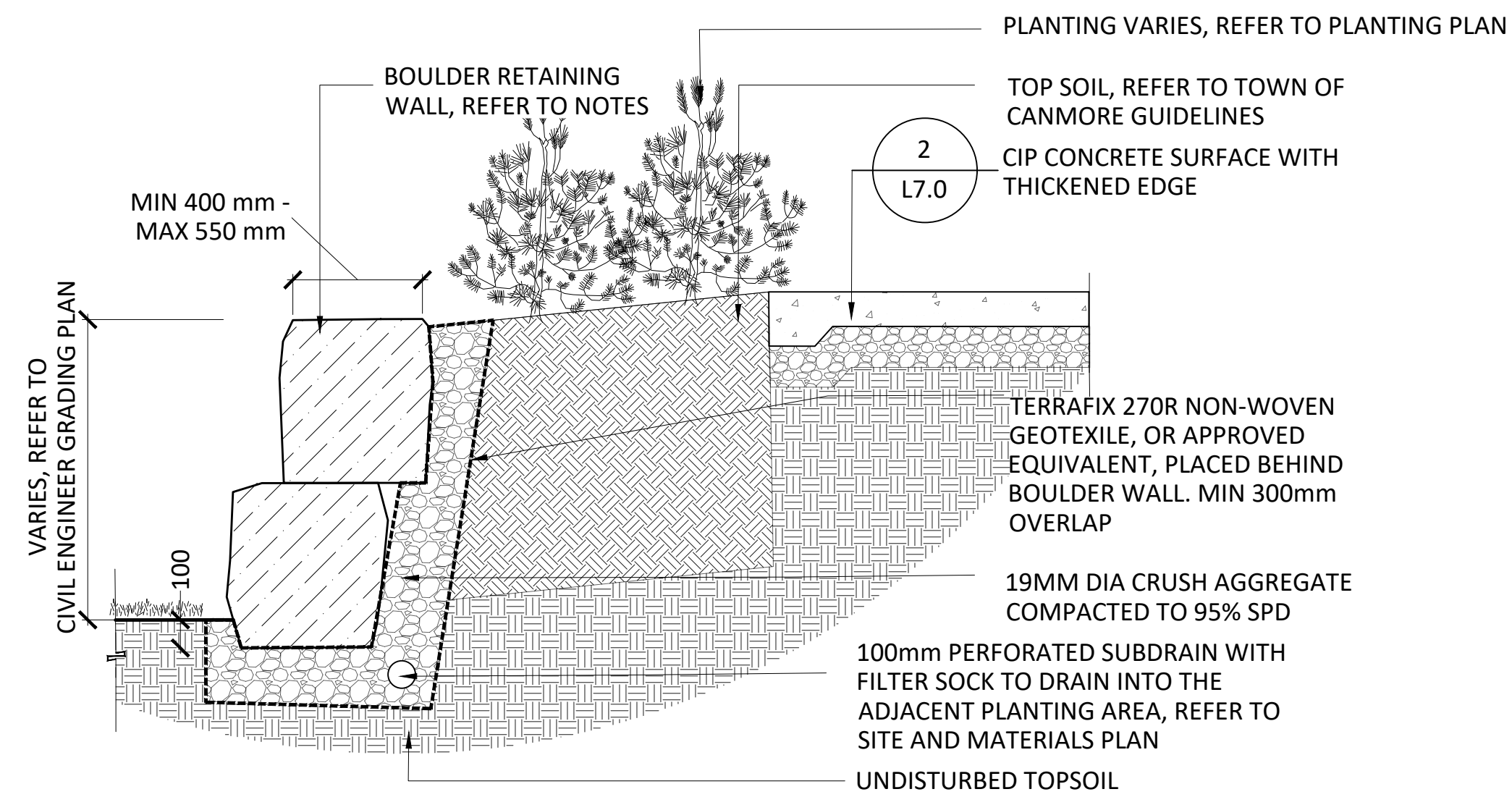
Drawing No.

Drawn By
LB

L7.0

Checked
HR

Revisions			
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1 BOULDER RETAINING WALL - SECTION TYP.
SCALE: 1:20



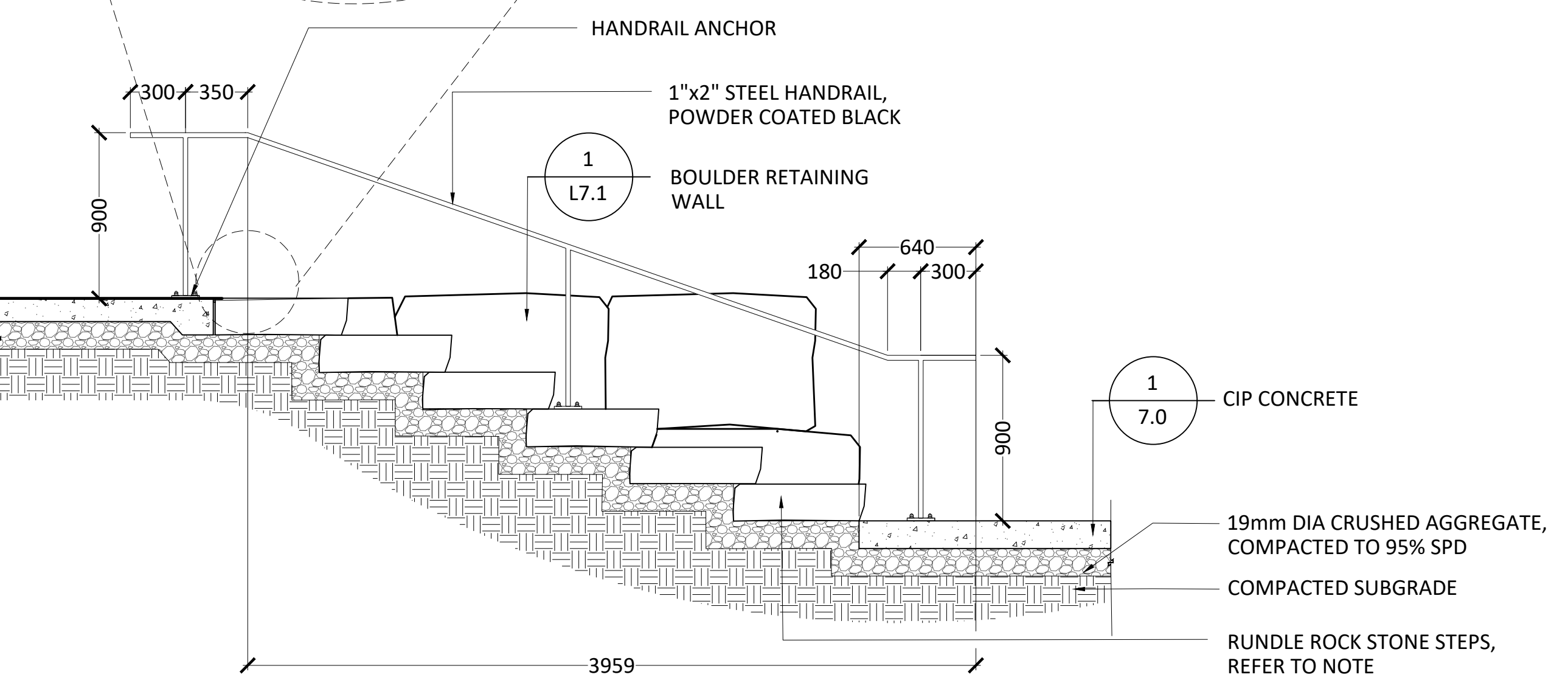
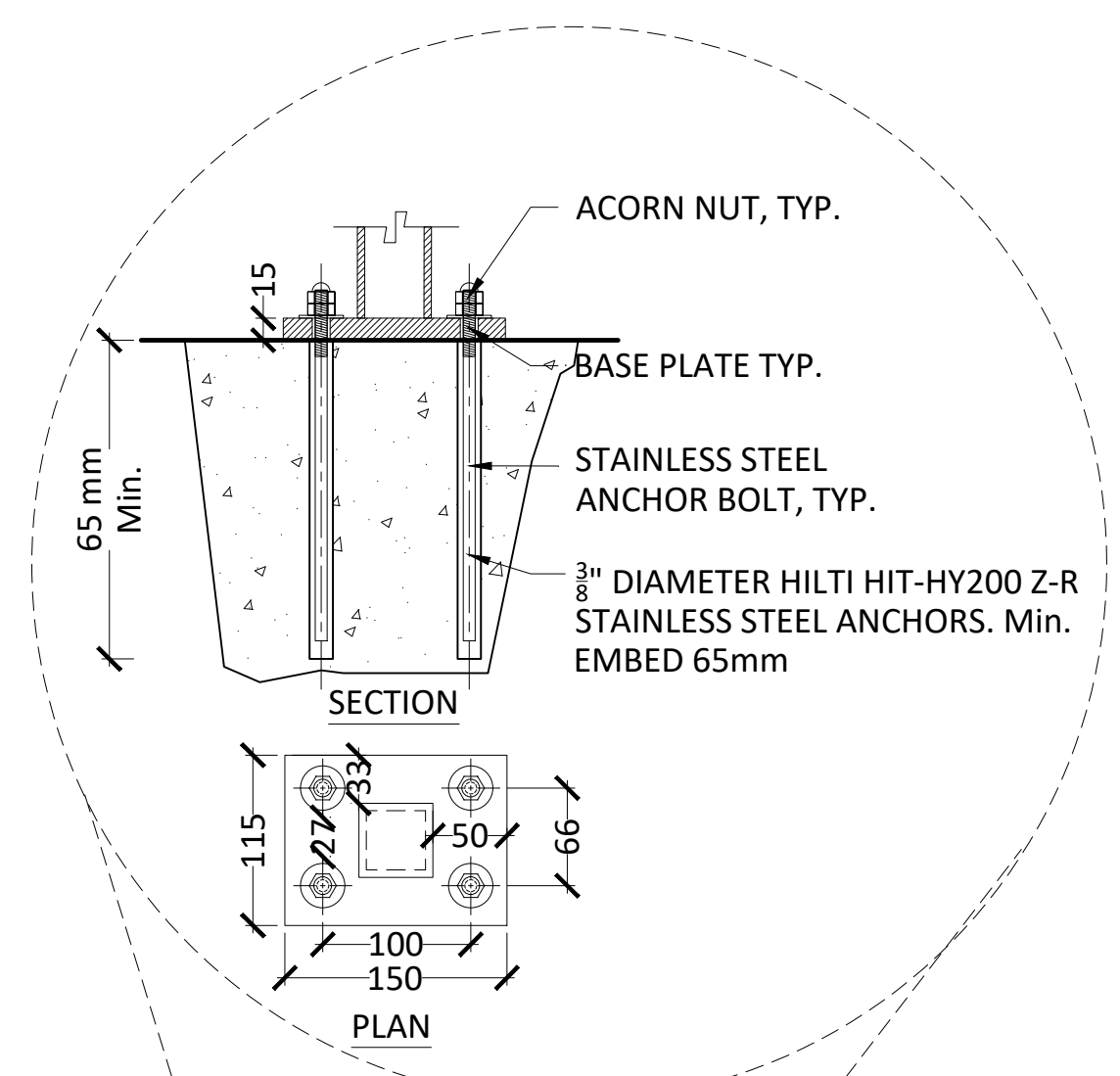
2 BOULDER RETAINING WALL - PRECEDENT IMAGE
SCALE: NTS

NOTES

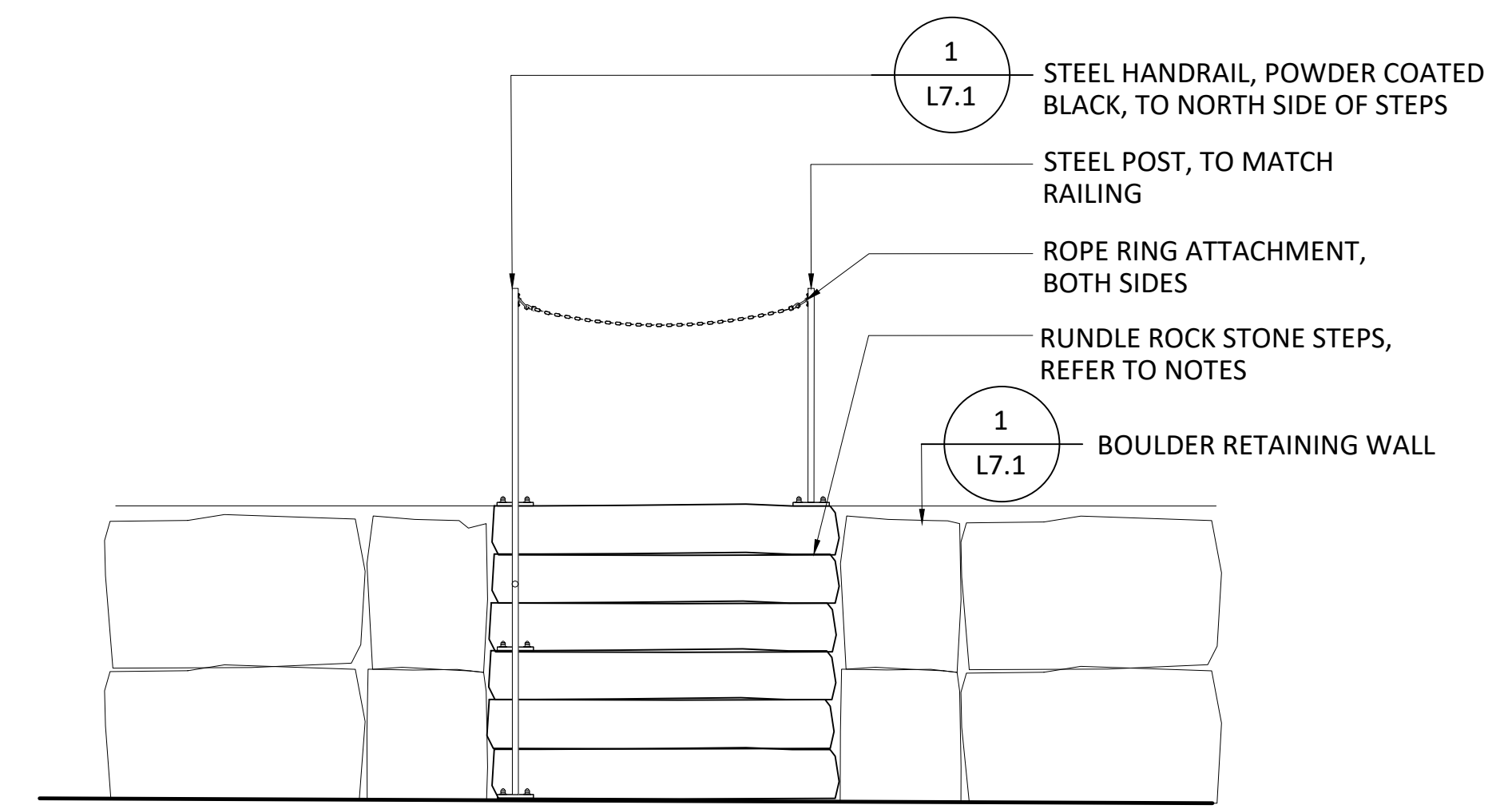
- BOULDER RETAINING WALL**
- SUPPLIER: THUNDERSTONE QUARRIES, OR APPROVED EQUIVALENT
 - MATERIAL: RUNDLE STONE STACKABLE BOULDERS
COLOUR: BLACK
 - ENSURE BASE IS EXCAVATED TO THE REQUIRED DEPTH TO ENSURE BOULDERS ARE BURIED MINIMUM OF 100mm DEPTH BELOW FINISHED GRADE.
 - CONTRACTOR TO SUBMIT PHOTO SAMPLE OF BOULDERS FOR CA APPROVAL PRIOR TO DELIVERY TO SITE, (I.E FORWARD PHOTOGRAPHS AND / OR CONFIRM LOCATION OF BOULDERS FOR CA INSPECTION)
 - BOULDERS TO BE OF SIMILAR COLOUR AND TEXTURE

- LANDSCAPE STONE STEPS**
- SUPPLIER: THUNDERSTONE QUARRIES OR APPROVED EQUIVALENT
 - MATERIAL: RUNDLE STONE NATURAL STEPS
COLOUR: BLACK
 - DIMENSIONS
THICKNESS : MIN 210mm - MAX 220mm.
WIDTH: MIN 1450mm - 1500mm
DEPTH : MIN 715mm-720mm
 - CONTRACTOR TO SUBMIT PHOTO OF STONE STEPS FOR CA APPROVAL PRIOR TO DELIVERY TO SITE, (I.E FORWARD PHOTOGRAPHS AND / OR CONFIRM SUPPLIER LOCATION OF STONE STEPS FOR CA INSPECTION)

- HANDRAIL AND POST**
- CONTRACTOR TO SUBMIT FULLY DIMENSIONED SHOP DRAWINGS FOR CA APPROVAL
 - HANDRAIL TO COMPLY WITH THE LOCAL BUILDING CODE



3 LANDSCAPE STONE STEPS AND HANDRAIL - SECTION TYP.
SCALE: 1:25



4 LANDSCAPE STONE STEPS AND HANDRAIL - FRONT ELEVATION
SCALE: 1:25

ISSUED FOR TENDER
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Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

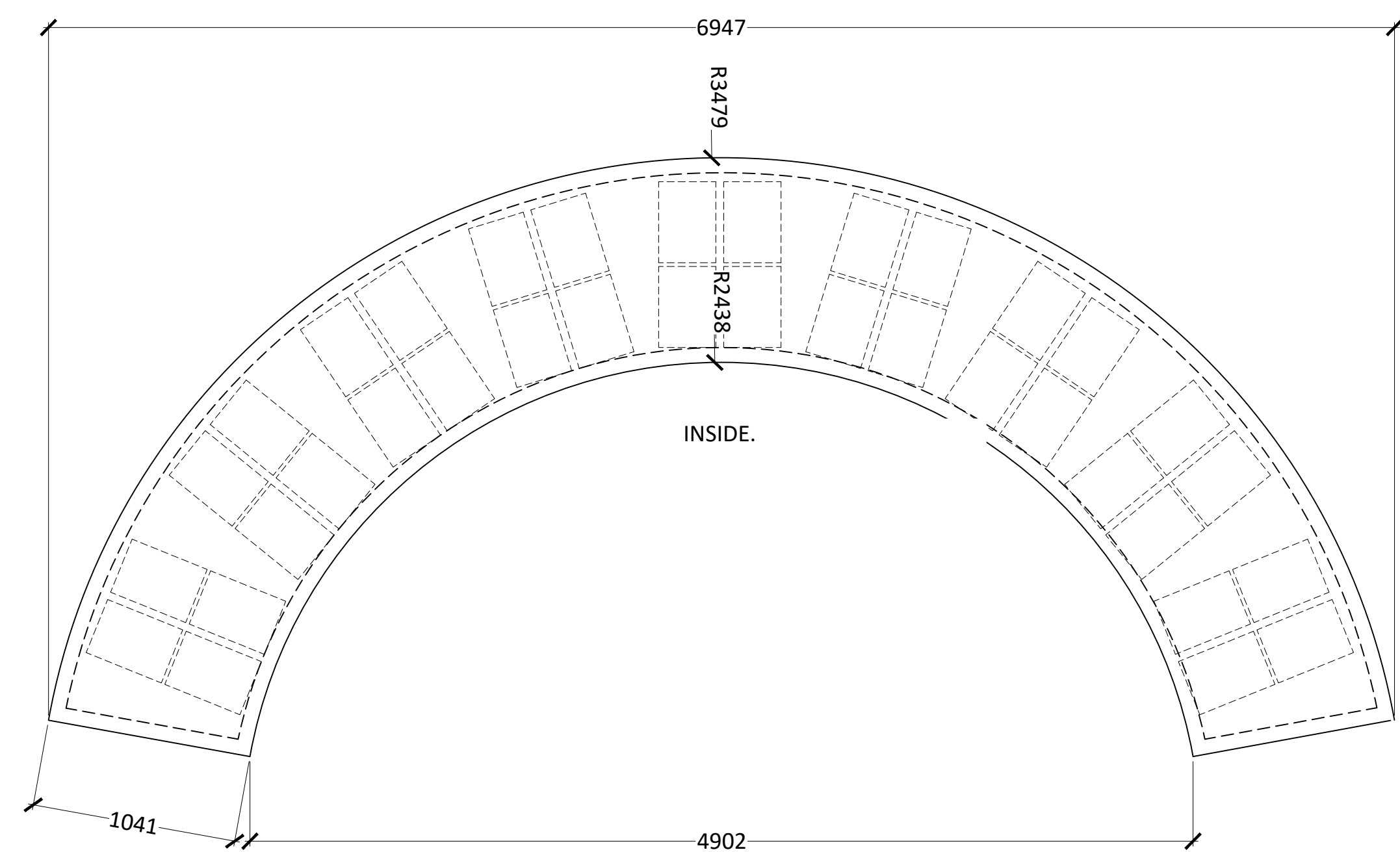
Drawing Title
**DETAILS
BOULDER RETAINING WALL AND STONE STEPS**

Date OCTOBER, 2022	ELAC Project No. 21-816
Scale (On 22 x 34 Inch Sheet) As Noted	Drawing No. L7.1
Drawn By LB	Checked HR

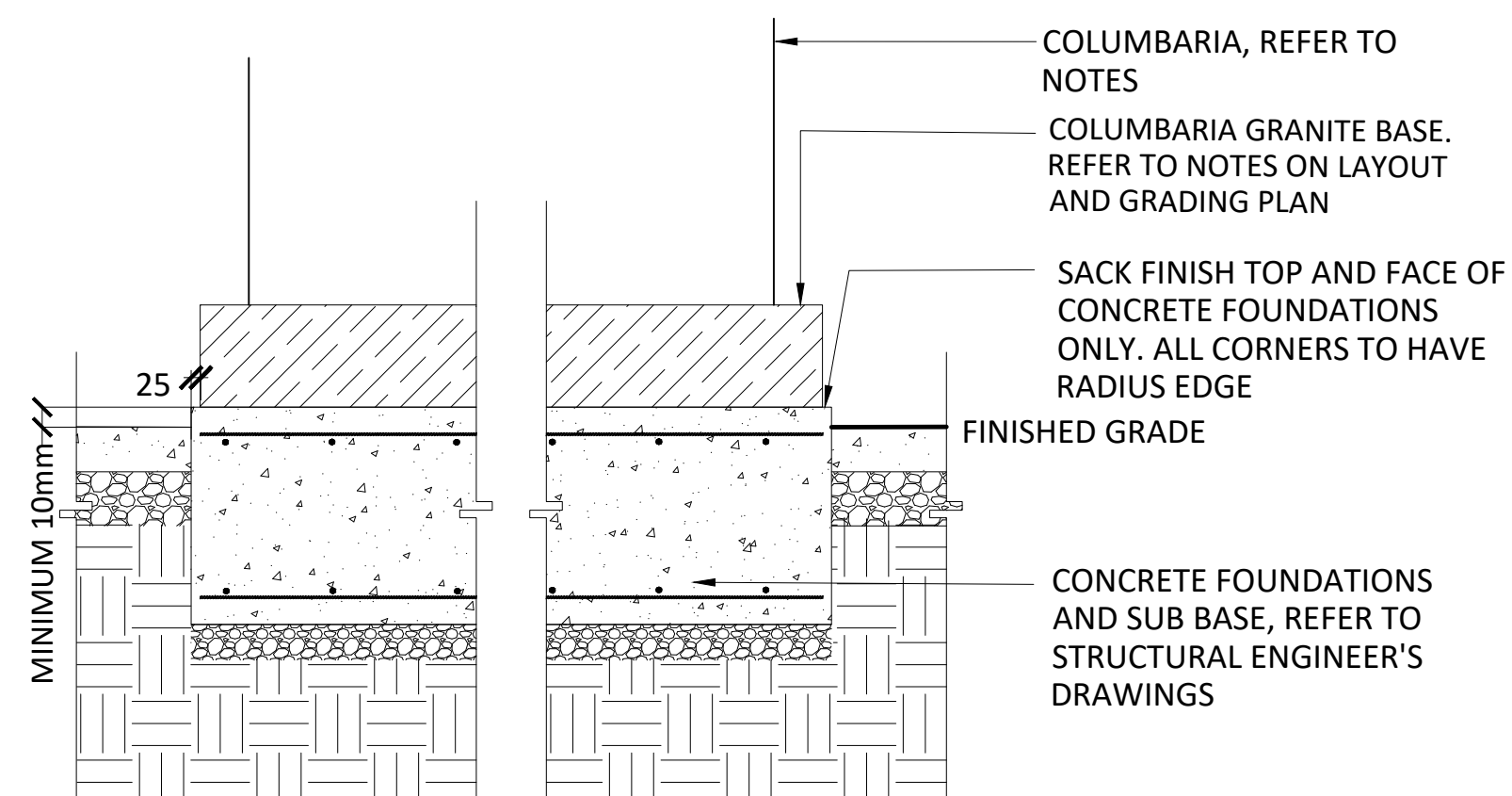
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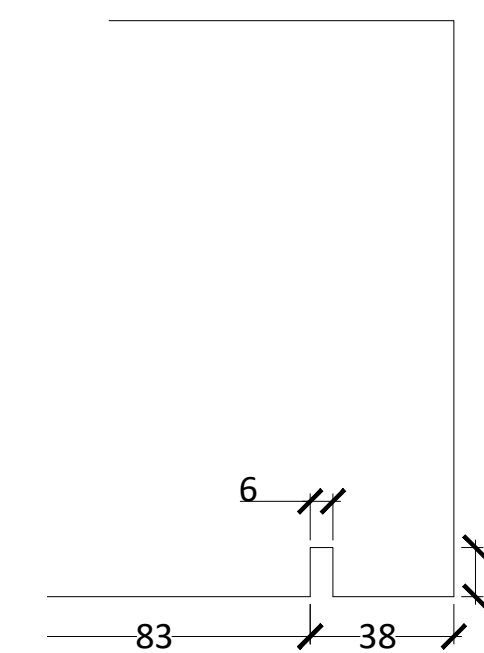
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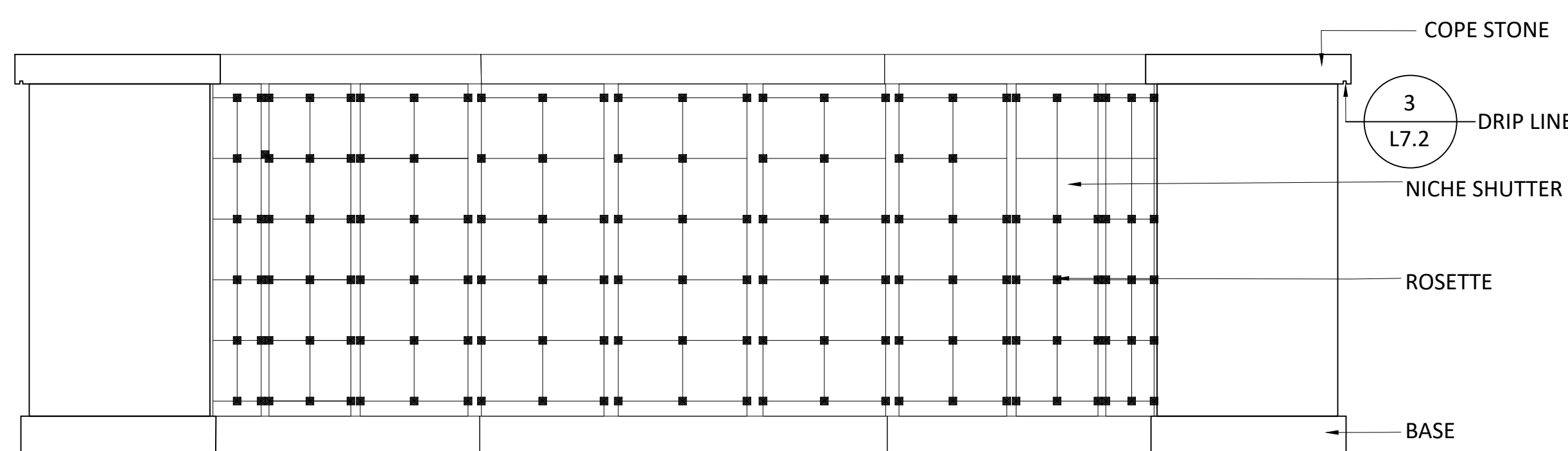
1 COLUMBARIUM - PLAN TYP.
SCALE: 1:25



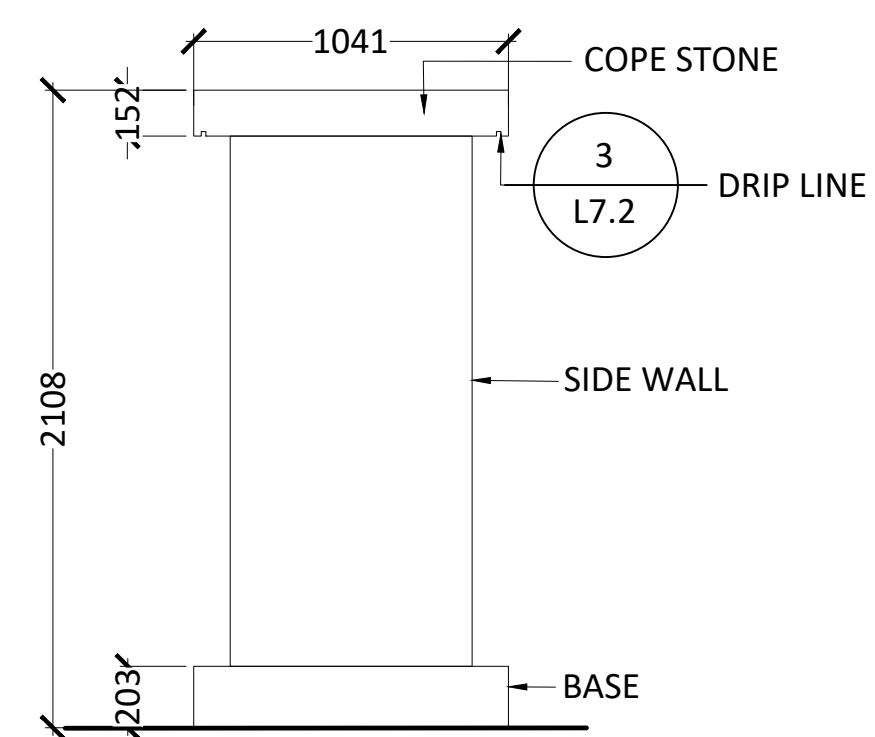
2 COLUMBARIUM FOUNDATION - SECTION TYP.
SCALE: 1:20



3 COLUMBARIUM DRIPLINE - SECTION TYP.
SCALE: 1:2



4 COLUMBARIUM INSIDE - ELEVATION TYP.
SCALE: 1:25



5 COLUMBARIUM SIDE WALL - ELEVATION TYP.
SCALE: 1:25

COLUMBARIA NOTES:

- REFER TO SPECIFICATIONS FOR PRE-APPROVED COLUMBARIA SUPPLIERS
- OVERALL DIMENSIONS SHOWN ARE INDICATIVE. CONTRACTOR TO SUPPLY FULLY DIMENSIONED SHOP DRAWINGS FOR CA APPROVAL.
- NUMBER OF NICHE TO BE MIN. 160 - MAX 180.
- CONTRACTOR TO SUPPLY OWNER WITH MATERIAL SAMPLES FOR APPROVAL, PRIOR TO SUPPLY AND INSTALL.
- CONTRACT TO INCLUDE 12 EXTRA NICHE SHUTTERS.

COLUMBARIA FOUNDATION NOTES:

- CONTRACTOR TO CONFIRM FINAL DIMENSIONS OF COLUMBARIA BASE WITH COLUMBARIA SUPPLIER PRIOR TO POURING COLUMBARIA FOUNDATIONS.
- TOP OF FOUNDATIONS TO BE THE SAME FINISH GRADE FOR BOTH COLUMBARIA (SO ROOFLINE OF BOTH COLUMBARIUM WILL BE THE SAME)

COLUMBARIA MATERIAL AND COLOUR PALLETTE

ITEM	MATERIAL	COLOUR	FINISH
COPE STONE	GRANITE	LIGHT GREY - SALT AND PEPPER	TOP + UNDERSIDE (EXPOSED): SAWN SIDES: ROCK PITCH BOTTOM (HIDDEN): SAWN EDGES: EASED
SIDEWALL TO COLUMBARIA	GRANITE	LIGHT GREY - SALT AND PEPPER	ALL EXPOSED SIDES: FLAMED ALL HIDDEN SIDES: SAWN
BASE	GRANITE	LIGHT GREY - SALT AND PEPPER	TOP (EXPOSED): FLAMED SIDES: ROCK PITCH BOTTOM (HIDDEN): SAWN EDGES: EASED
SHUTTERS	GRANITE	BLACK GRANITE	FRONT FACE: POLISHED TO MATCH EXISTING ALL OTHER SIDES: SAWN
TRIM AROUND SHUTTERS	GRANITE	BLACK GRANITE	FRONT FACE: POLISHED ALL OTHER SIDES: SAWN
INTERNAL NICHE MATERIAL	SUPPLIERS CHOICE	SUPPLIERS CHOICE	SUPPLIERS CHOICE
ROSETTES	SUPPLIERS CHOICE	SILVER	SUPPLIERS CHOICE

ISSUED FOR TENDER
NOT FOR CONSTRUCTION



Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
DETAILS COLUMBARIA

Date
OCTOBER, 2022

ELAC Project No.
21-816

Scale (On 22 x 34 Inch Sheet)
As Noted

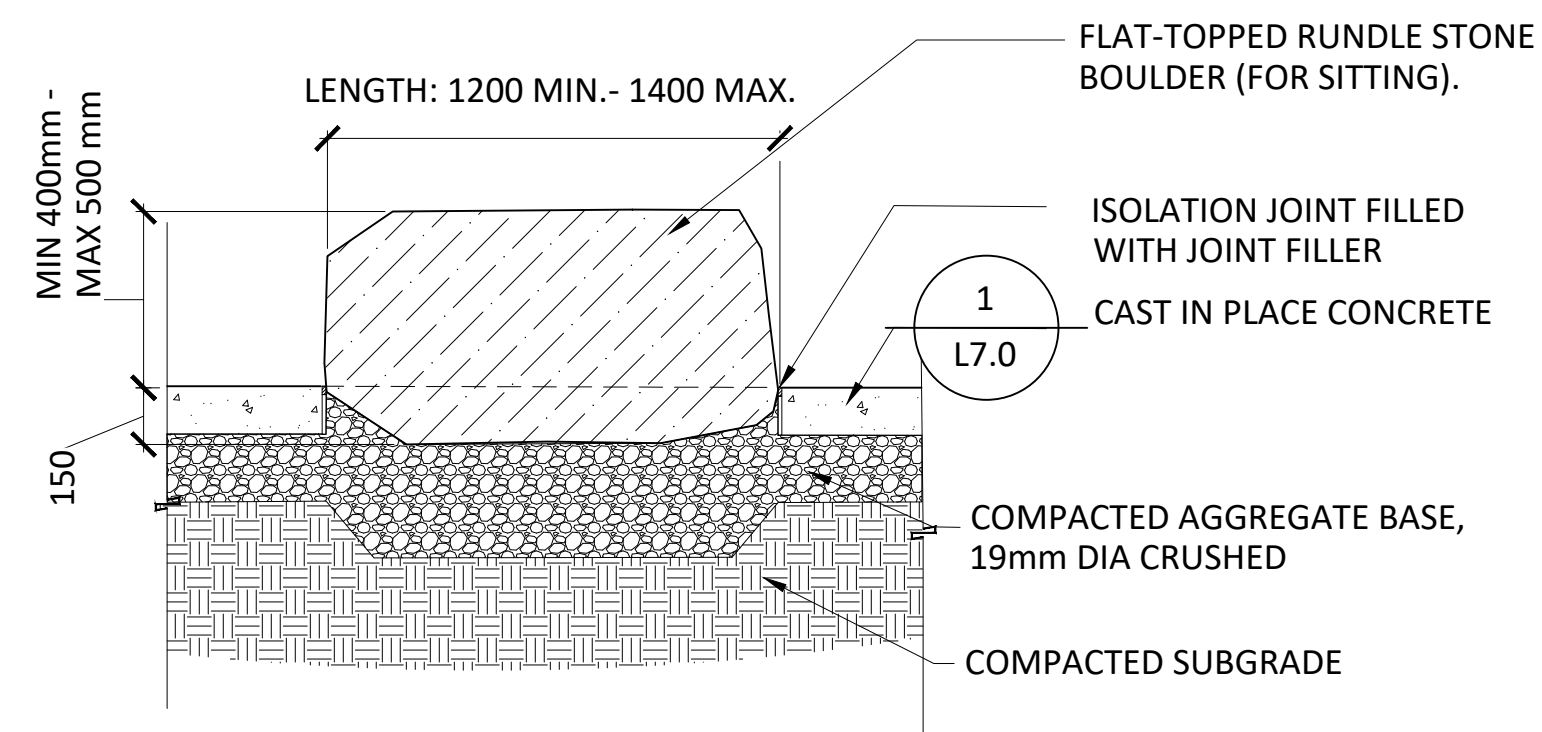
Drawing No.
L7.2

Drawn By
LB

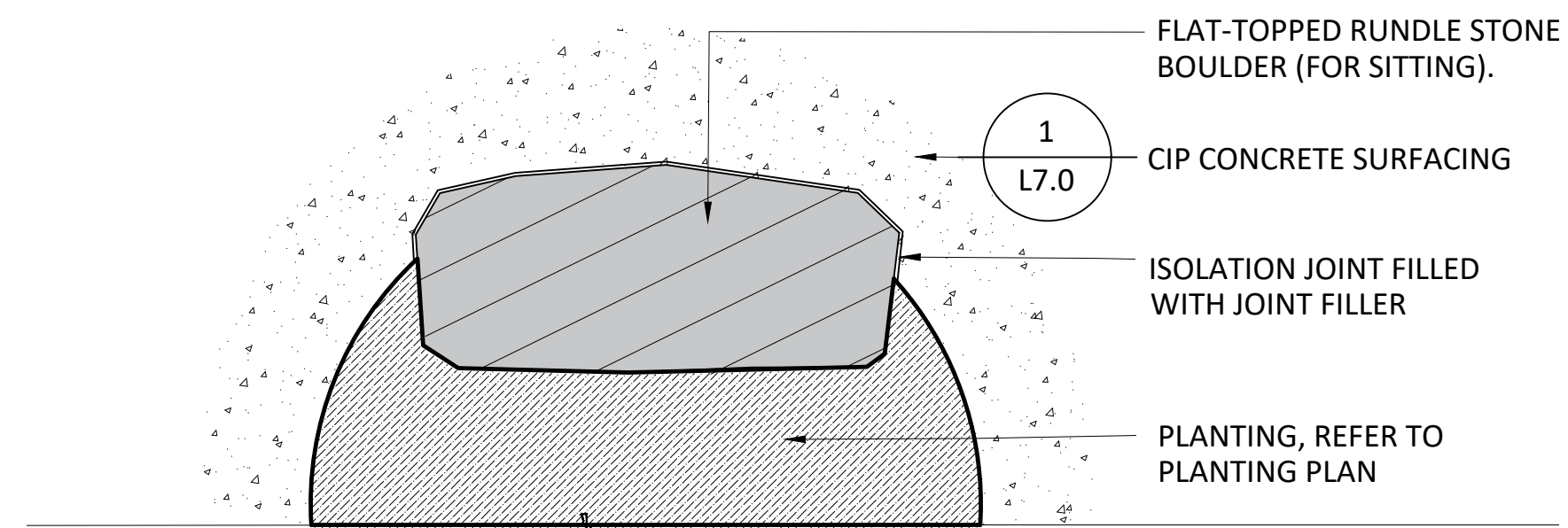
Checked
HR

Revisions

No.	Date	Status	By
1	OCT. 21, 2022	ISSUED FOR 50% REVIEW	LB
2	DEC. 9, 2022	ISSUED FOR 90% REVIEW	LB
3	MAR. 24, 2023	ISSUED FOR TENDER	LB
4	MAY 12, 2023	ISSUED FOR TENDER - UPDATE	LB



1 SEATING BOULDER - SECTION FRONT TYP.
SCALE: 1:20



2 SEATING BOULDER - PLAN TYP.
SCALE: 1:20

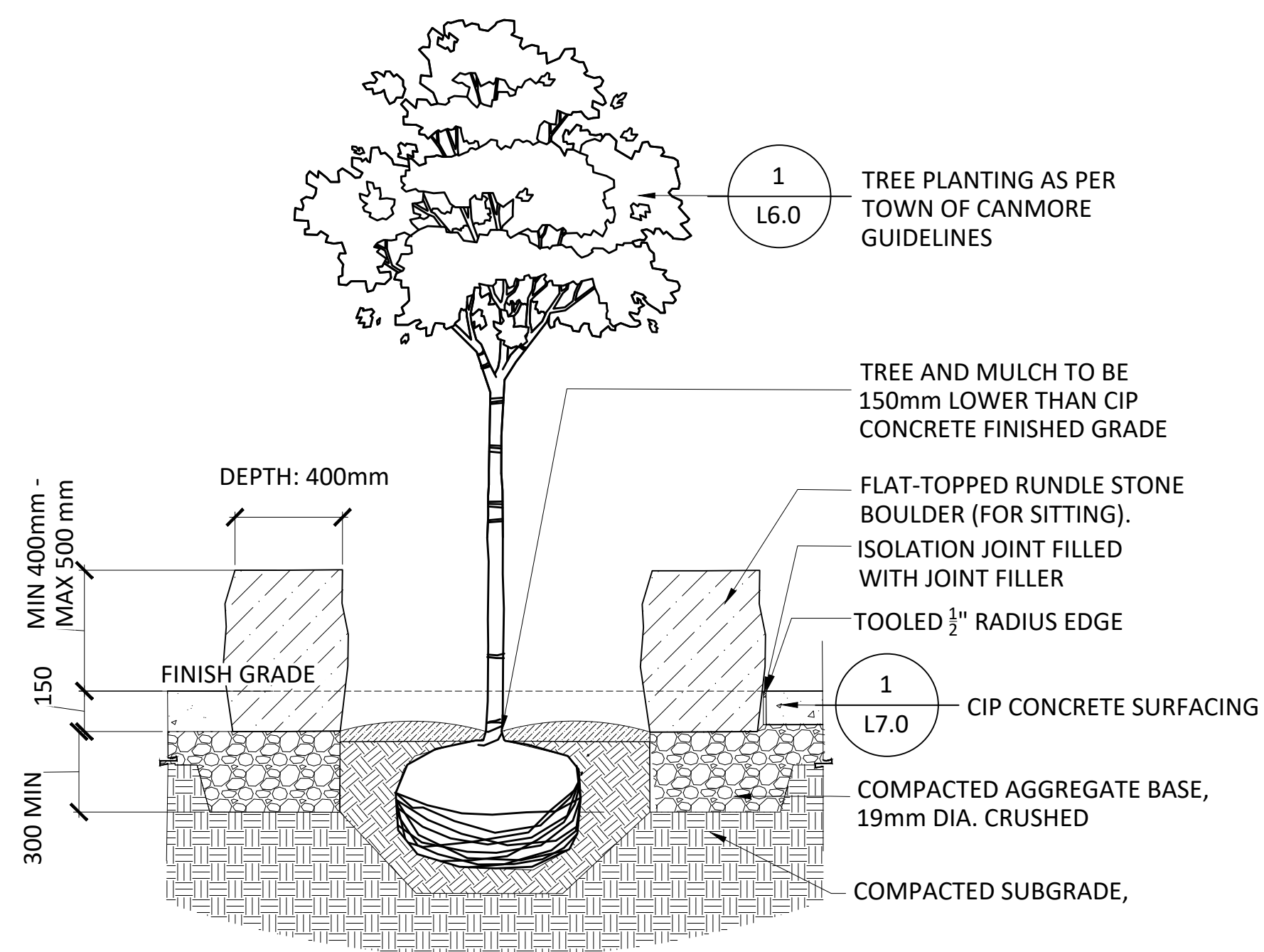
NOTES

SEATING BOULDERS

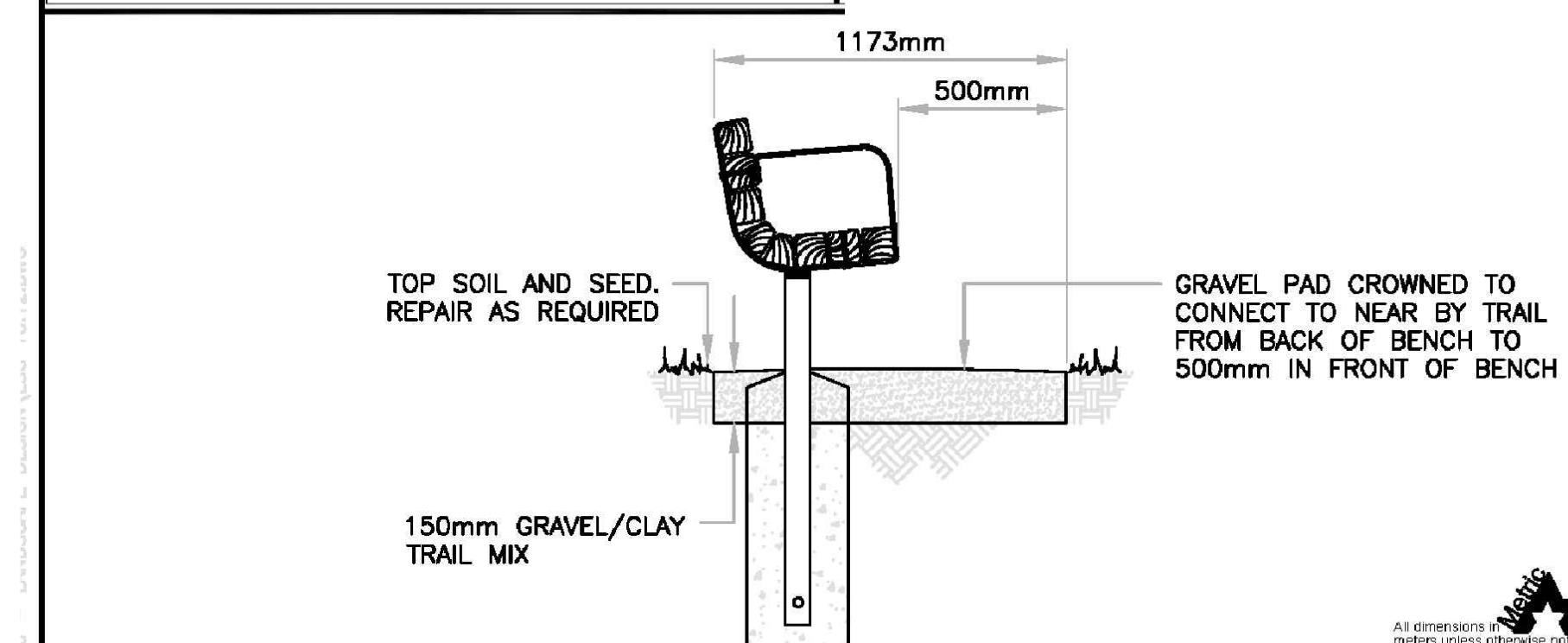
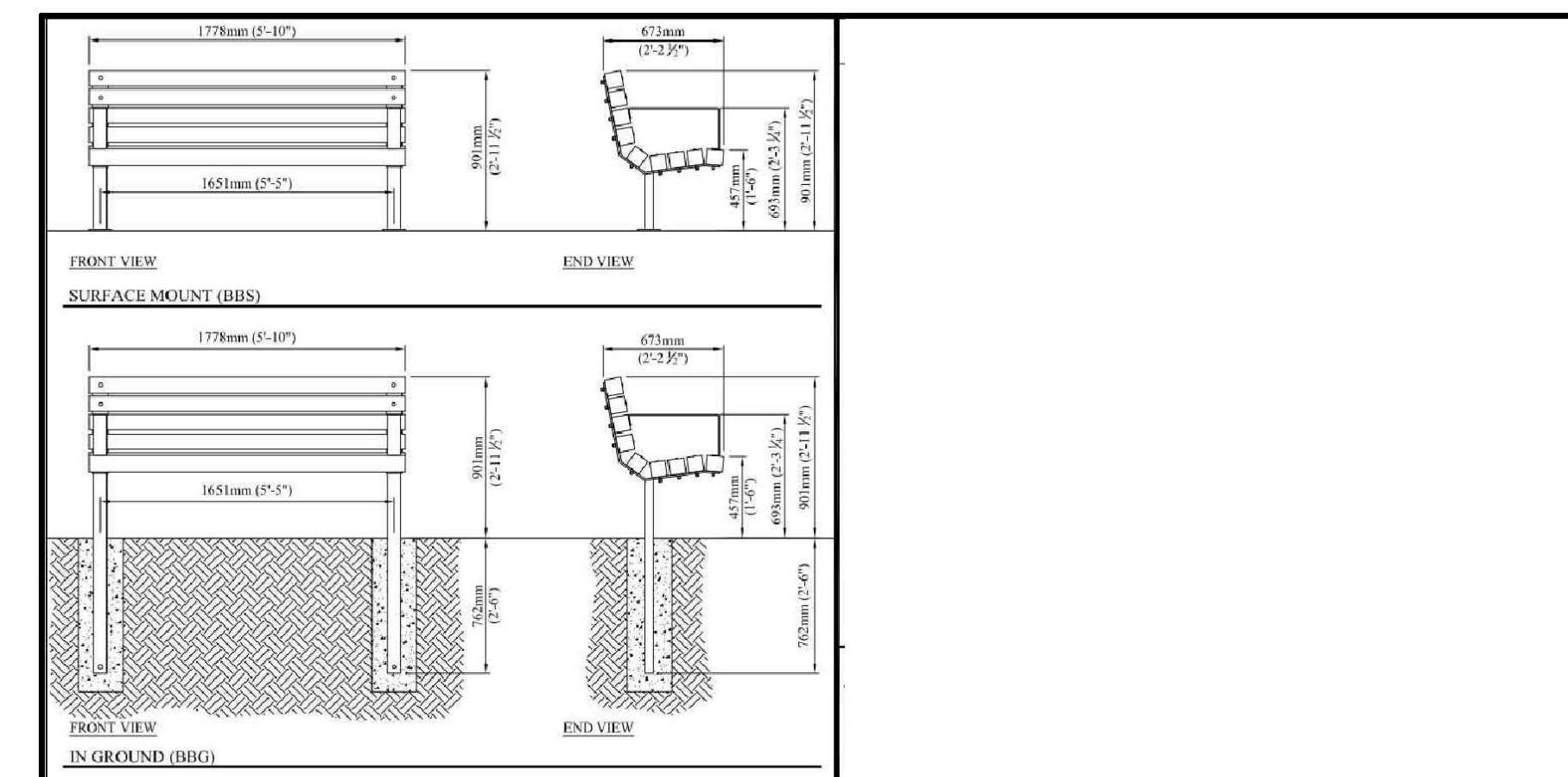
1. SUPPLIER: THUNDERSTONE QUARRIES OR APPROVED EQUIVALENT
2. MATERIAL: RUNDLE STONE COLOUR: BLACK
3. CONTRACTOR TO SUBMIT SAMPLES (PHOTOS) FOR CA APPROVAL PRIOR TO DELIVERY TO SITE
4. BOULDERS TO HAVE SIMILAR COLOUR AND TEXTURE AS RETAINING WALL BOULDERS
5. BOULDERS TO HAVE A FLAT TOP FOR SEATING

BENCH

1. BENCH TO BE SUPPLIED BY TOWN
2. CONTRACTOR TO INSTALL BENCH AS PER MANUFACTURER'S SPECIFICATIONS
3. NOTE: BENCH WILL BE IN SOD, NOT GRAVEL.



3 SEATING BOULDER - SECTION SIDE TYP.
SCALE: 1:20



PARK BENCH	WOOD	STEEL FINISH	FASTNERS	TYPE	MOUNT
SERIES 'B' PARK BENCH BY CUSTOM PARK & LEISURE OR APPROVED EQUIVALENT	88.9 x 88.9 x 1178.0mm (3-1/2\"/>				

5											
4											
3											
2											
1	08/14/19	2019 EDCG STANDARDS	BWM	LG	CB						
REV	M/D/Y	DESCRIPTION	DPS	CHK	ENG						

4 BENCH - TOWN OF CANMORE STANDARD DETAIL
SCALE: NTS

ISSUED FOR TENDER
NOT FOR CONSTRUCTION



Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
DETAILS FURNISHINGS

Date OCTOBER, 2022	ELAC Project No. 21-816
Scale (On 22 x 34 Inch Sheet) As Noted	Drawing No. L7.3
Drawn By LB	
Checked HR	

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Revisions			
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LEGEND	
EXISTING	
	LIMIT OF WORK
	EXISTING AREA OF IRRIGATION
	CONIFEROUS TREE
	DECIDUOUS TREE
	FENCE
	BENCH
PROPOSED	
	DECIDUOUS TREE
	BOULDER RETAINING WALL
	BOULDER SEATING
	LAWN IRRIGATION, SEE NOTES
	SHRUB BED IRRIGATION, SEE NOTES

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 NOT FOR CONSTRUCTION



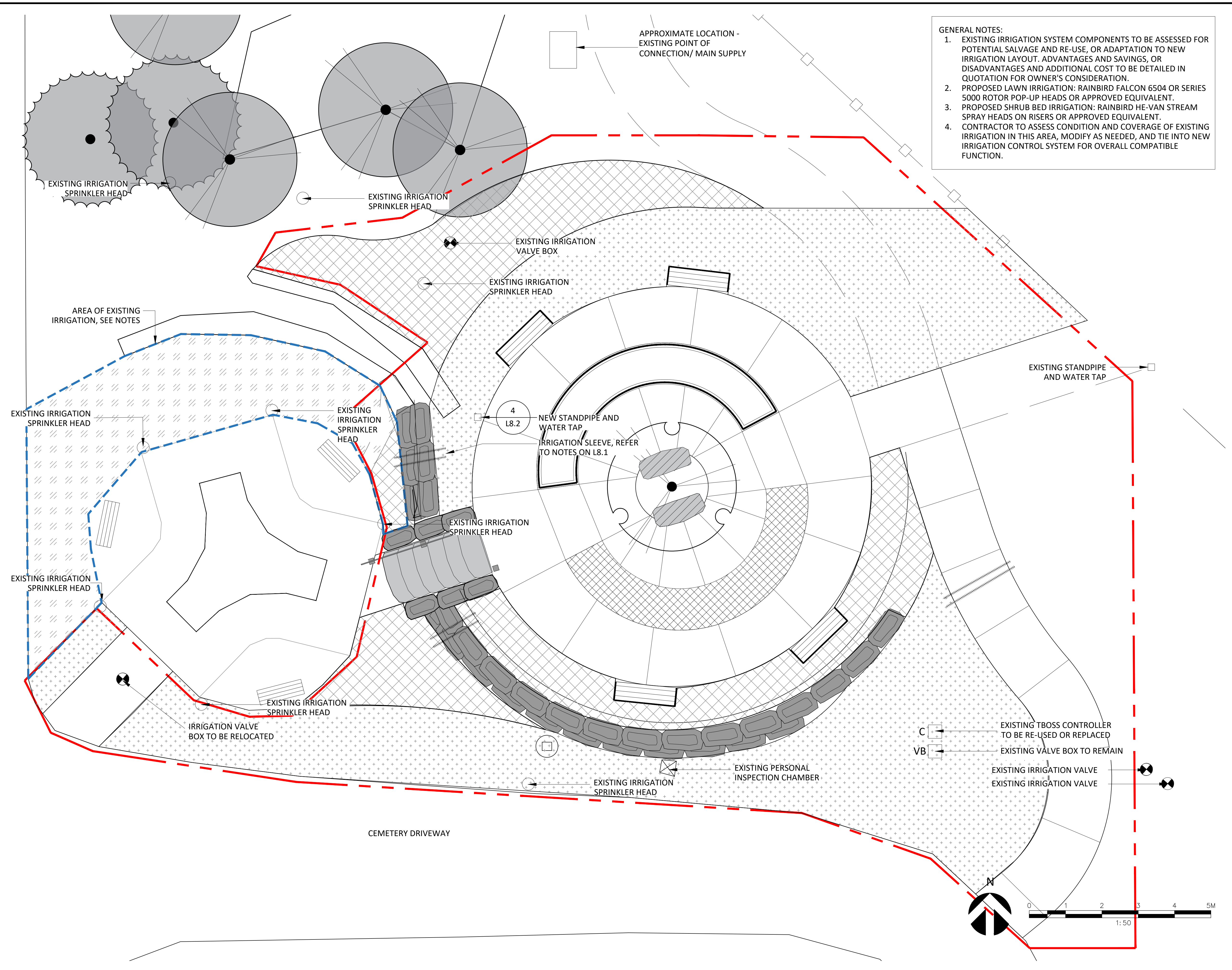
Client
 Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
**IRRIGATION PLAN
 CREMATION GARDEN**

Date	OCTOBER, 2022	ELAC Project No.	21-816
Scale (On 22 x 34 Inch Sheet)	As Noted	Drawing No.	L8.0
Drawn By	LB	Checked	HR

GENERAL NOTES:

- EXISTING IRRIGATION SYSTEM COMPONENTS TO BE ASSESSED FOR POTENTIAL SALVAGE AND RE-USE, OR ADAPTATION TO NEW IRRIGATION LAYOUT. ADVANTAGES AND SAVINGS, OR DISADVANTAGES AND ADDITIONAL COST TO BE DETAILED IN QUOTATION FOR OWNER'S CONSIDERATION.
- PROPOSED LAWN IRRIGATION: RAINBIRD FALCON 6504 OR SERIES 5000 ROTOR POP-UP HEADS OR APPROVED EQUIVALENT.
- PROPOSED SHRUB BED IRRIGATION: RAINBIRD HE-VAN STREAM SPRAY HEADS ON RISERS OR APPROVED EQUIVALENT.
- CONTRACTOR TO ASSESS CONDITION AND COVERAGE OF EXISTING IRRIGATION IN THIS AREA, MODIFY AS NEEDED, AND TIE INTO NEW IRRIGATION CONTROL SYSTEM FOR OVERALL COMPATIBLE FUNCTION.

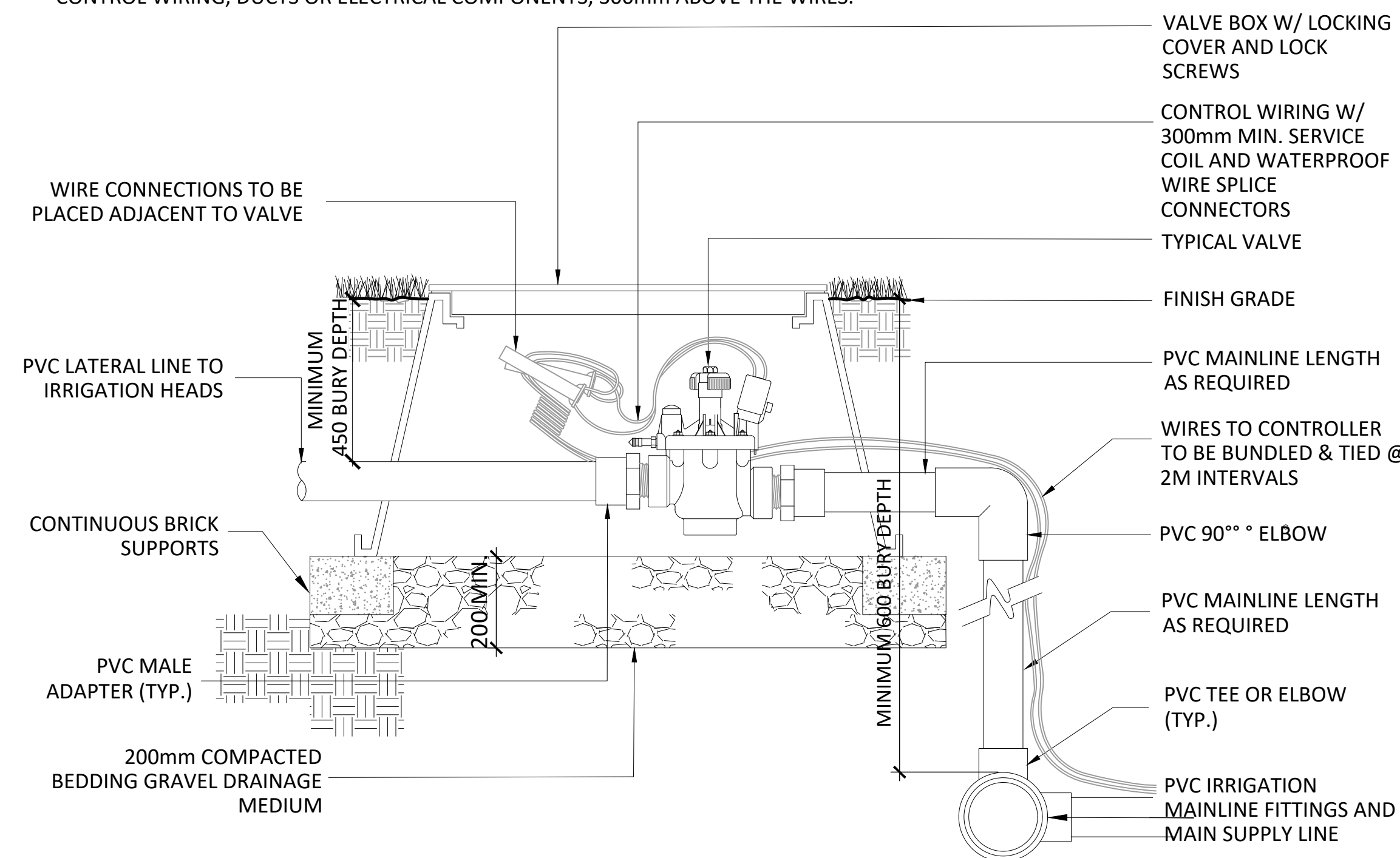


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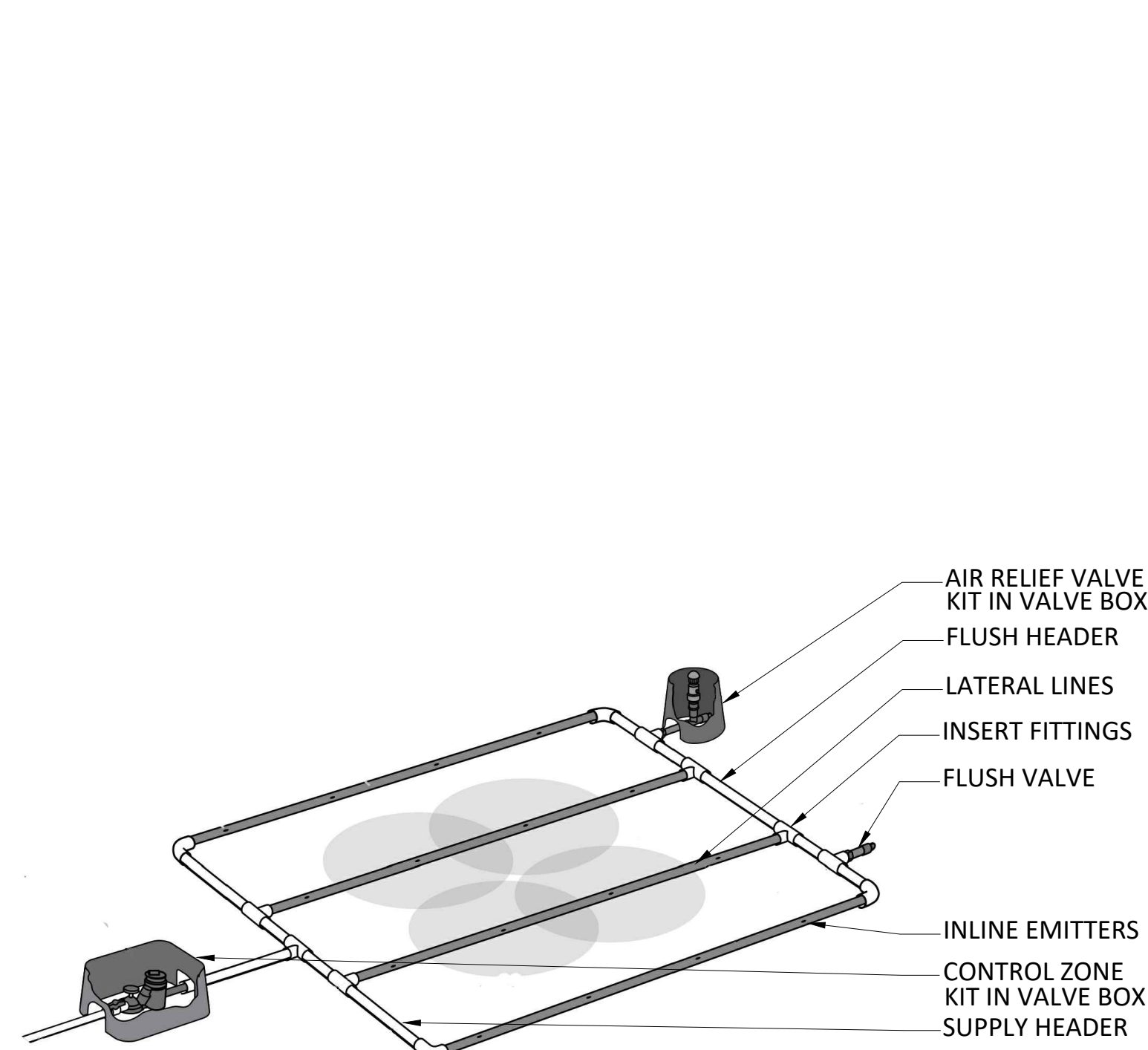
NOTES:

1. ALL THREADED CONNECTIONS TO BE WOUND WITH "RECTOR SEAL No.8" TEFLON TAPE OR APPROVED EQUIVALENT JOINT SEALING COMPOUND.
2. USE WATERPROOF GEL-TYPE ELECTRICAL CONNECTION CAPS.
3. ALL IRRIGATION WIRING TO BE INSTALLED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE AND W.C.B. REGULATIONS.
4. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOXES-WRAP WIRES AROUND A 12mm PIPE FIFTEEN TIMES MINIMUM.
5. TOP OF VALVE BOXES TO BE MAINTAINED LEVEL WITH ADJACENT GRADES.
6. ELECTRICAL HAZARD WARNING TAPE TO BE PLACED IN ALL TRENCHES CONTAINING BURIED CONTROL WIRING, DUCTS OR ELECTRICAL COMPONENTS, 300mm ABOVE THE WIRES.



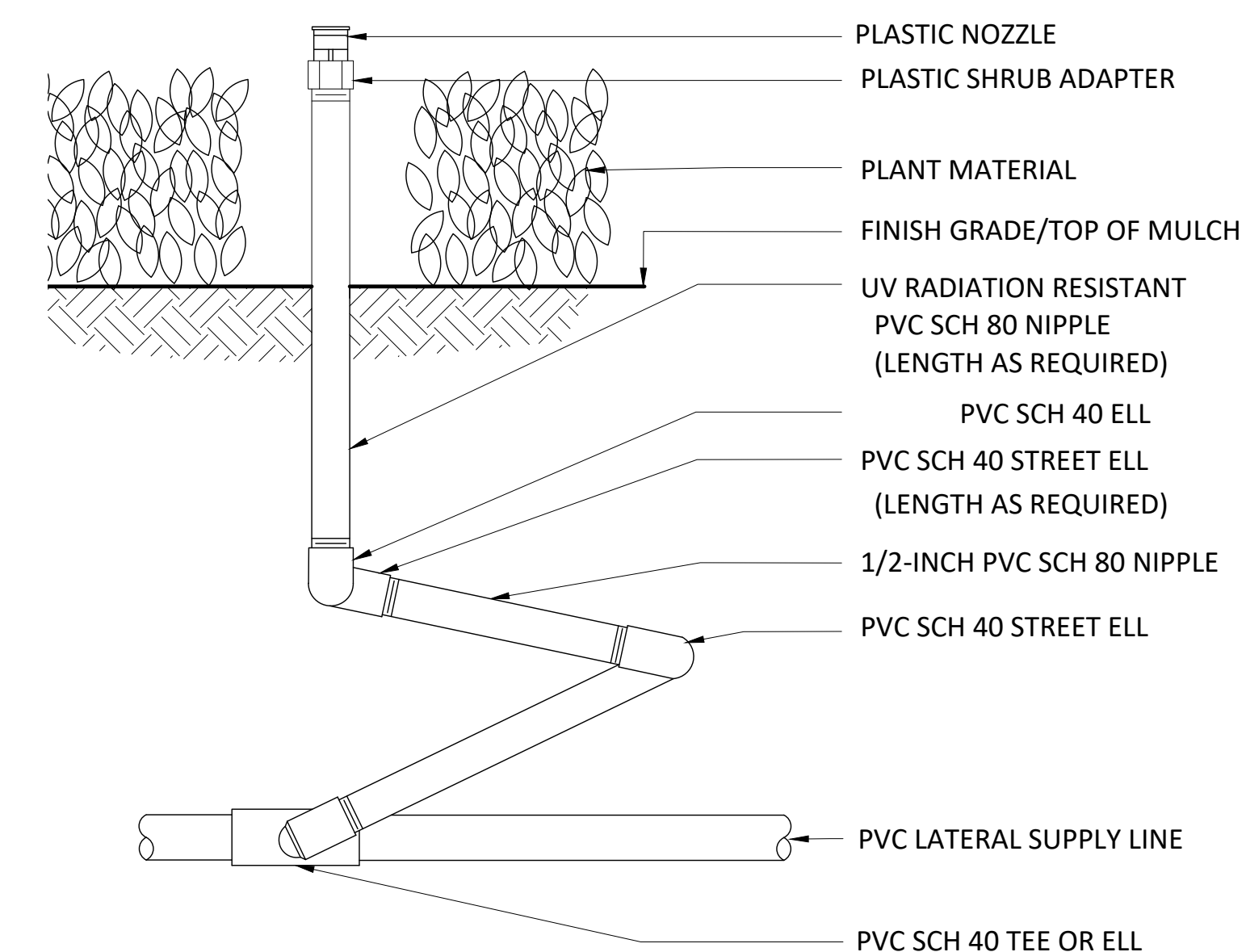
1 ELECTRIC CONTROL VALVE ASSEMBLY - SECTION

SCALE: 1:10



2 TYPICAL SUBSURFACE DRIPLINE - PERSPECTIVE

SCALE: NTS



3 FIXED SPRAY HEAD ASSEMBLY - TRIPLE SWING JOINT- ELEVATION

SCALE: 1:10

IRRIGATION SYSTEM GENERAL NOTES:

1. ALL IRRIGATION MATERIAL, PRODUCTS AND INSTALLATION SHALL CONFORM TO THE IRRIGATION TECHNICAL SPECIFICATIONS, CONTRACT DRAWINGS, TOWN OF CANMORE ENGINEERING DESIGN AND CONSTRUCTION GUIDELINES, AND APPROVED SHOP DRAWINGS UNLESS DIRECTED OTHERWISE BY THE CONTRACT ADMINISTRATOR (CA) AND SHALL FOLLOW WHICHEVER SPECIFICATIONS ARE MORE STRINGENT.
2. THE CONTRACTOR SHALL NOTIFY THE CA OF ANY DISCREPANCIES BETWEEN SPECIFICATIONS PRIOR TO ANY WORK.
3. EXISTING IRRIGATION IS PROVIDED BY A RAINBIRD TURF BATTERY OPERATED SYSTEM (TBOS®) - BASED INSTALLATION, WITH ELEVEN (11) BATTERY-POWERED, BLUETOOTH CONTROLLED ZONES. WATER PRESSURE IS SET AT 500 - 550 kPa (75 - 80 PSI), WITH UP TO 700 kPa (100 PSI) AVAILABLE.
4. THE IRRIGATION CONTRACTOR SHALL PROVIDE RECOMMENDATIONS TO THE OWNER REGARDING SALVAGE AND RE-USE OF EXISTING IRRIGATION SYSTEM COMPONENTS, FOR INCORPORATION INTO THE NEW SYSTEM.
5. THE CONTRACTOR SHALL PROVIDE FULLY DETAILED AND SCALED SHOP DRAWINGS FOR APPROVAL BY THE CONTRACT ADMINISTRATOR (C.A.).
6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND SERVICES AND UTILITIES PRIOR TO COMMENCING ANY EXCAVATION.
7. THE IRRIGATION PLANS ARE SCHEMATIC ONLY AND SUBJECT TO INTERPRETATION BY THE CA.
8. WHENEVER POSSIBLE, IRRIGATION LINES ARE TO BE PLACED IN LAWN, PLANTING BEDS OR MULCHED AREAS ADJACENT TO ROADWAYS, PARKING, CURBS, SIDEWALKS, ETC.
9. ALL IRRIGATION LINES SHALL BE TRENCHED AND BACKFILLED (NOT INSTALLED BY MECHANICAL PLOWING).
10. IRRIGATION LINES INSTALLED UNDER HARD SURFACES, INCLUDING ASPHALT OR CONCRETE SIDEWALKS OR ROADWAYS, SHALL BE SLEEVED WITH SCHEDULE 40 PVC PIPE DUCTS, SIZED MINIMUM TWO TIMES (2X) THE COMBINED DIAMETER OF ALL IRRIGATION PIPE OR WIRE IN DUCT.
11. ENDS OF DUCT PIPE SHALL BE STUFFED WITH FIBREGLASS INSULATION AFTER IRRIGATION PIPE OR CONTROL WIRING INSTALLATION TO PREVENT DEBRIS ENTRY AND MINIMIZE MOVEMENT.
12. ALL IRRIGATION LINES OR WIRING CROSSING SHALLOW UTILITIES SHALL BE DUCTED. IRRIGATION WIRING AND IRRIGATION PIPE MUST BE RUN IN SEPARATE DUCTS.
13. ALL BURIED IRRIGATION WIRING SHALL HAVE HAZARD WARNING TAPE INSTALLED IN TRENCH ABOVE THE WIRING.
14. ALL IRRIGATION PIPING SHALL BE PRESSURE-TESTED IN ACCORDANCE WITH THE SPECIFICATIONS AND IN THE PRESENCE OF THE CA OR A DESIGNATED REPRESENTATIVE, PRIOR TO INSTALLATION OF IRRIGATION HEADS. TEST LATERAL LINES SEPARATELY FROM MAIN LINE.
15. IRRIGATION EQUIPMENT SHALL BE RAINBIRD®, OR APPROVED EQUIVALENT WITH EQUAL OR BETTER OPERATING AND PERFORMANCE CHARACTERISTICS.
16. IRRIGATION HEAD PLACEMENT SHALL BE CONFIGURED TO PROVIDE HEAD-TO-HEAD COVERAGE AT CONSISTENT SPACING, WITH MINIMAL OVERSPRAY ONTO SIDEWALKS AND PARKING AREAS.
17. OVERSPRAY ONTO HARD SURFACES, BUILDINGS OR OTHER SITE FEATURES ARE SUBJECT TO CA APPROVAL.
18. IRRIGATION HEAD LOCATION AND SPACING MAY BE ADJUSTED IN THE FIELD, WITH PRIOR APPROVAL OF THE CA, TO ENSURE ADEQUATE AND EVEN COVERAGE. PREVAILING WIND DIRECTION AND SURFACE FEATURES MUST BE TAKEN INTO ACCOUNT TO AVOID OVERSPRAY. SHOULD COVERAGE APPEAR UNSATISFACTORY UPON OPERATIONAL TESTING, ADJUSTMENTS TO SPACING SHALL BE CARRIED OUT TO THE SATISFACTION OF THE CA AT THE CONTRACTORS EXPENSE.
19. ELECTRIC IRRIGATION ZONE CONTROL VALVES SHALL BE SIZED AND LOCATED FOR OPTIMUM COVERAGE AND SYSTEM OPERATION ON LATERAL SUPPLY LINES.
20. ALL VALVES SHALL BE INSTALLED IN LIDDED VALVE BOXES, SIZED TO ACCOMMODATE VALVE(S) WITH ADEQUATE CLEARANCE AND WORKING ROOM. UP TO THREE (3) VALVES MAY BE CLUSTERED IN A SINGLE VALVE BOX IF NEEDED.
21. IRRIGATION ZONES TO BE SEPARATED BASED ON PLANT MATERIAL WATER REQUIREMENTS.
22. QUICK-CONNECT TURF VALVES IN VALVE BOXES SHALL BE LOCATED AT DESIGNATED POINTS ON THE MAINLINES.
23. MANUAL VALVE CONTROLLED STANDPIPES, WITH A STANDARD 19mm (¾") HOSE BIBB SPIGOT SHALL BE PROVIDED AT DESIGNATED POINTS ON MAINLINES.
24. THRUST BLOCKS SHALL BE INSTALLED AS NEEDED AT MAINLINE CHANGES IN DIRECTION.
25. IRRIGATION HEAD AND VALVE BOX LOCATIONS SHALL BE STAKED OR INDICATED WITH SPRAY PAINT FOR APPROVAL OF THE C.A., PRIOR TO COMMENCEMENT OF INSTALLATION.
26. TO THE DEGREE POSSIBLE, INSTALL VALVE BOXES IN CLUSTERS, IMMEDIATELY ADJACENT TO SIDEWALKS, WALKWAYS OR CURBS, FOR EASE OF ACCESS AND MAINTENANCE.
27. EXISTING TREES, SIGNS, UTILITIES, LIGHT STANDARDS, HARD SURFACES OR OTHER FEATURES TAKE PRECEDENCE OVER IRRIGATION CONSTRUCTION. CONSULT CA FOR DIRECTION IN ALL CASES WHERE CONFLICT IS APPARENT.
28. IRRIGATION WATER SUPPLY CONNECTION TO WATER SOURCE SHALL BE WHERE INDICATED BY C.A. COMPLY WITH ALL REGULATIONS CONCERNING CONNECTION TO POTABLE WATER SOURCES.
29. MINIMUM DEPTH OF BURIAL FOR IRRIGATION MAIN LINES: 450 MM. MINIMUM DEPTH OF BURIAL FOR IRRIGATION LATERAL LINES: 300 MM.
30. ALL ELECTRIC CONTROL WIRING SHALL BE #12AWG CONDUCTOR WIRE. COMMON WIRE SHALL BE 10AWG CONDUCTOR. ONLY THE COMMON WIRE SHALL BE WHITE IN COLOUR.
31. CONTROL WIRING SPLICES SHALL BE MADE WITH 3M DBR/Y CONNECTORS AND MAY ONLY BE MADE AT ELECTRICAL CONTROL VALVES.
32. PROVIDE MINIMUM 600 MM SLACK TWO-WIRE CABLES AT EACH ZONE VALVE OR CHANGE IN DIRECTION.
33. CONTROL WIRE RUNS AND SPARE WIRES SHALL BE CAPPED IN THE LAST VALVE BOX IN EACH RUN.
34. UPON COMPLETION OF INSTALLATION THE CONTRACTOR SHALL, IN THE PRESENCE OF THE CA, PROVIDE ON-SITE INSTRUCTION TO THE OWNER'S REPRESENTATIVE(S), AND ANSWER ANY QUESTIONS ABOUT THE SYSTEM OPERATION THAT MAY ARISE.

ISSUED FOR TENDER
NOT FOR CONSTRUCTION



Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
DETAILS
IRRIGATION

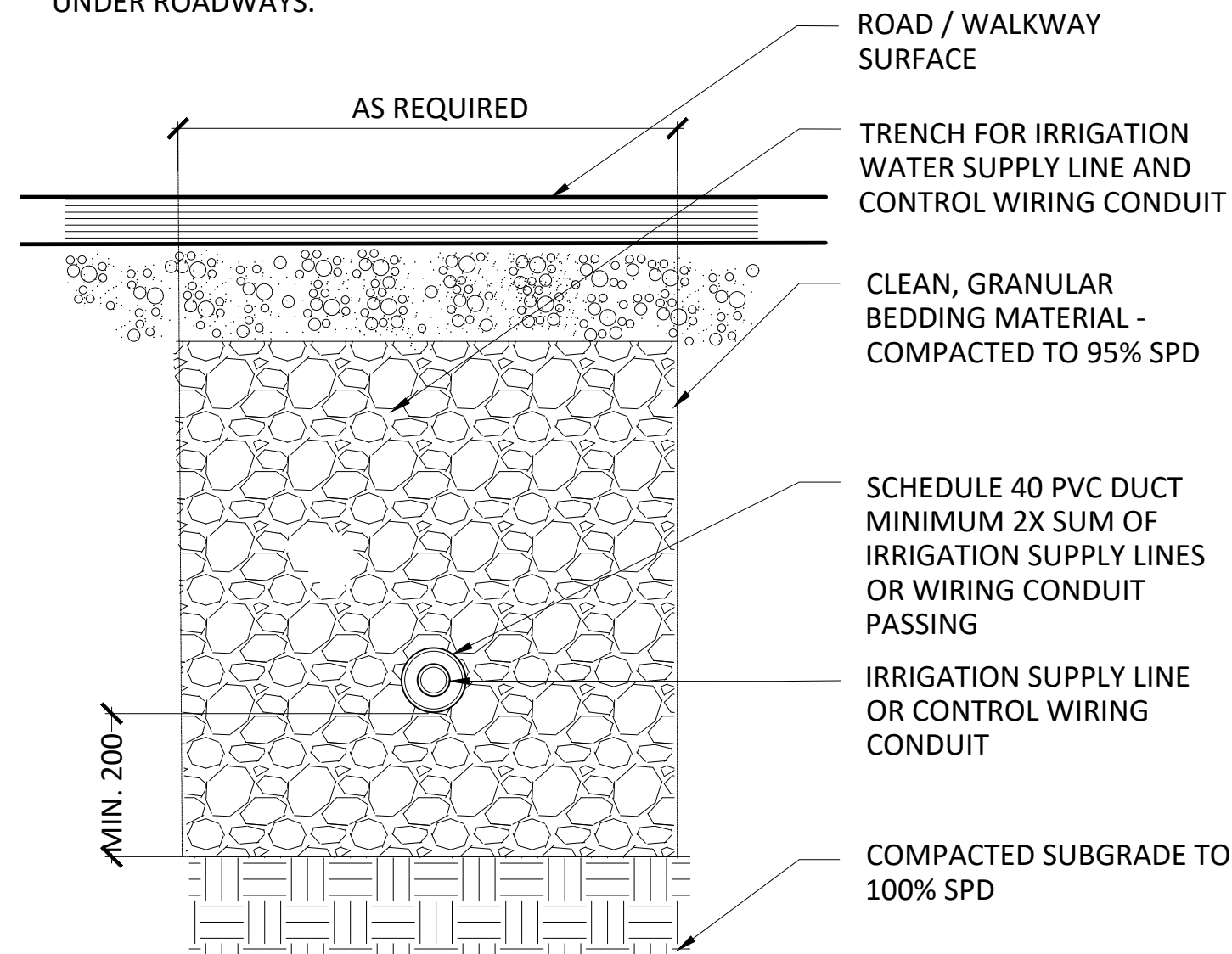
Date
OCTOBER, 2022
ELAC Project No.
21-816

Scale (On 22 x 34 Inch Sheet)
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Drawing No.

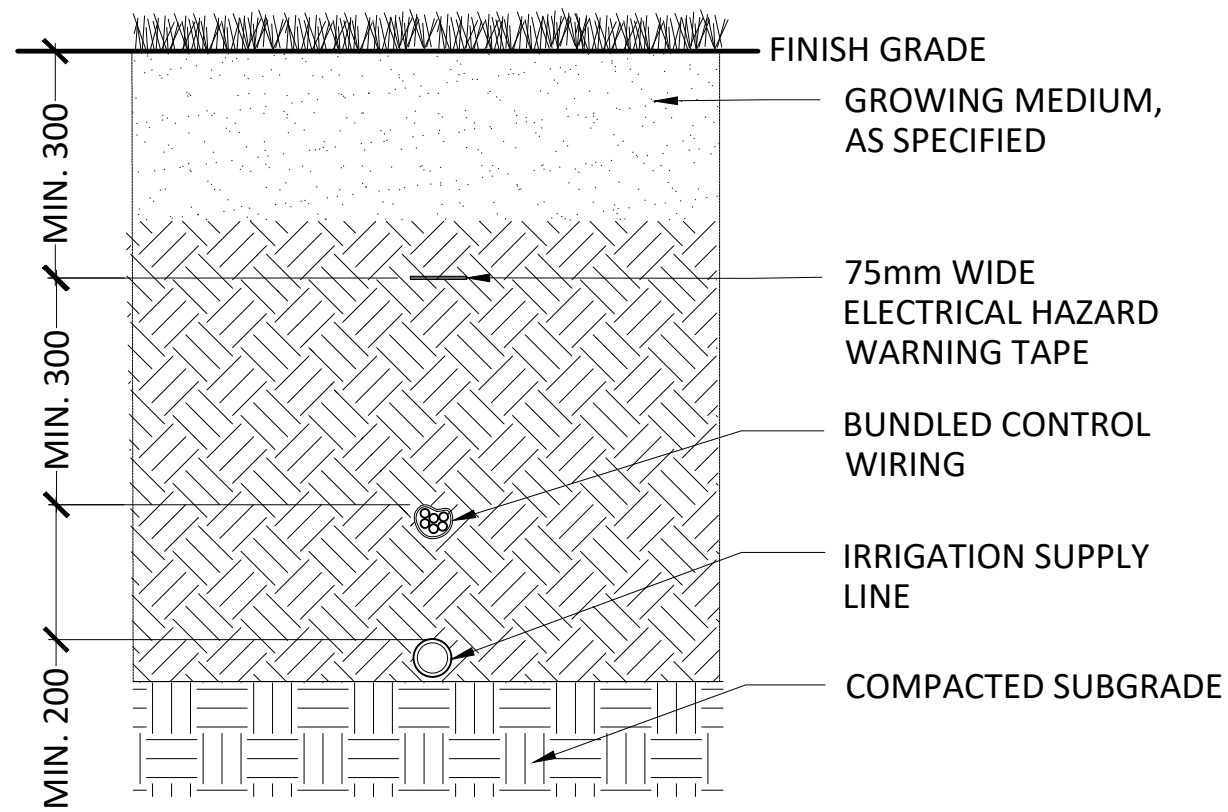
Drawn By
LB
Checked
HR

L8.1

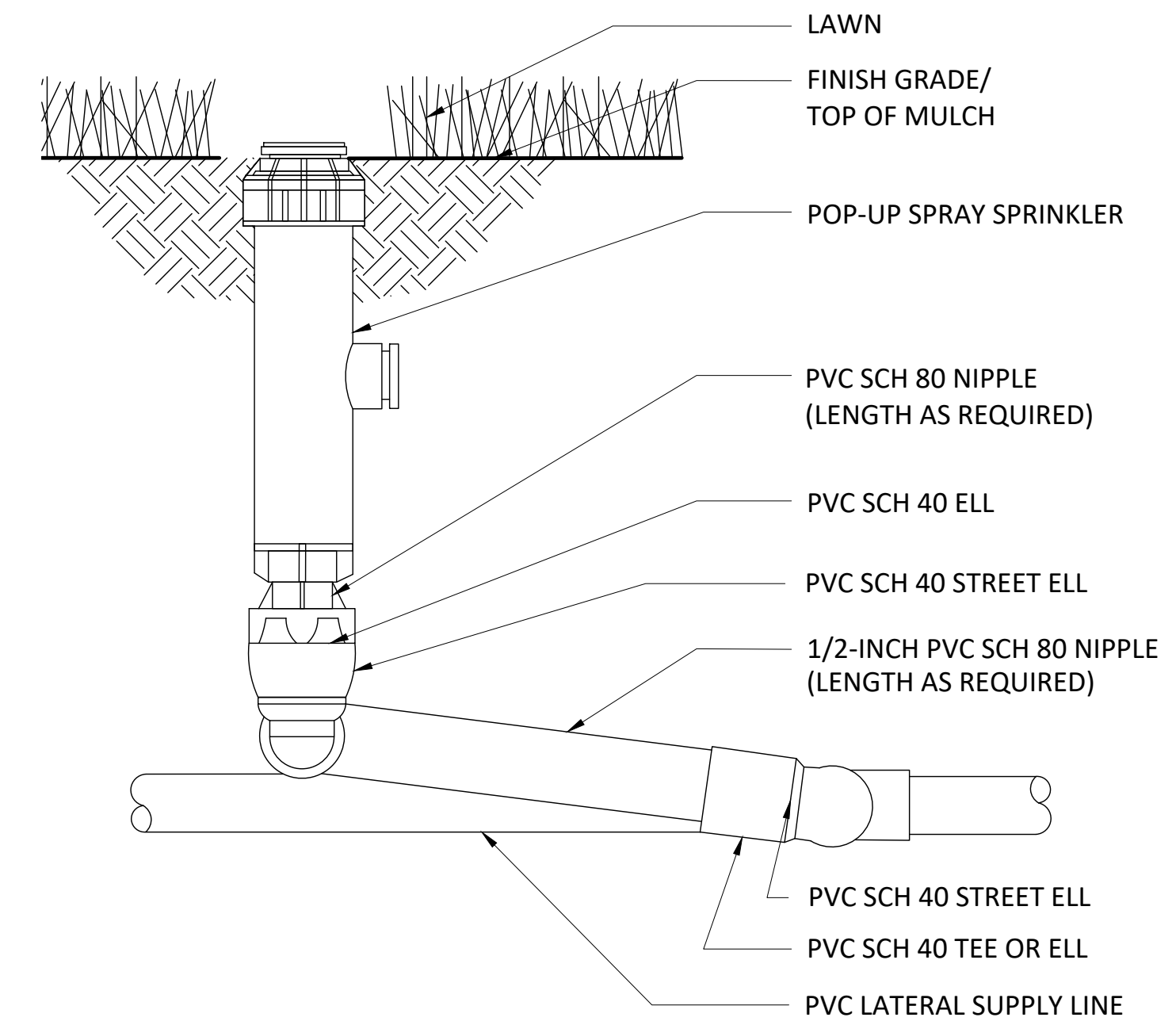
NOTES:
 1. DUCTS TO HAVE MINIMUM 200MM COVER UNDER LANDSCAPE, MINIMUM 450MM COVER UNDER SIDEWALKS / WALKWAYS AND MINIMUM 600MM COVER UNDER ROADWAYS.



1 IRRIGATION TRENCH UNDER PAVING - SECTION
 SCALE: 1:10

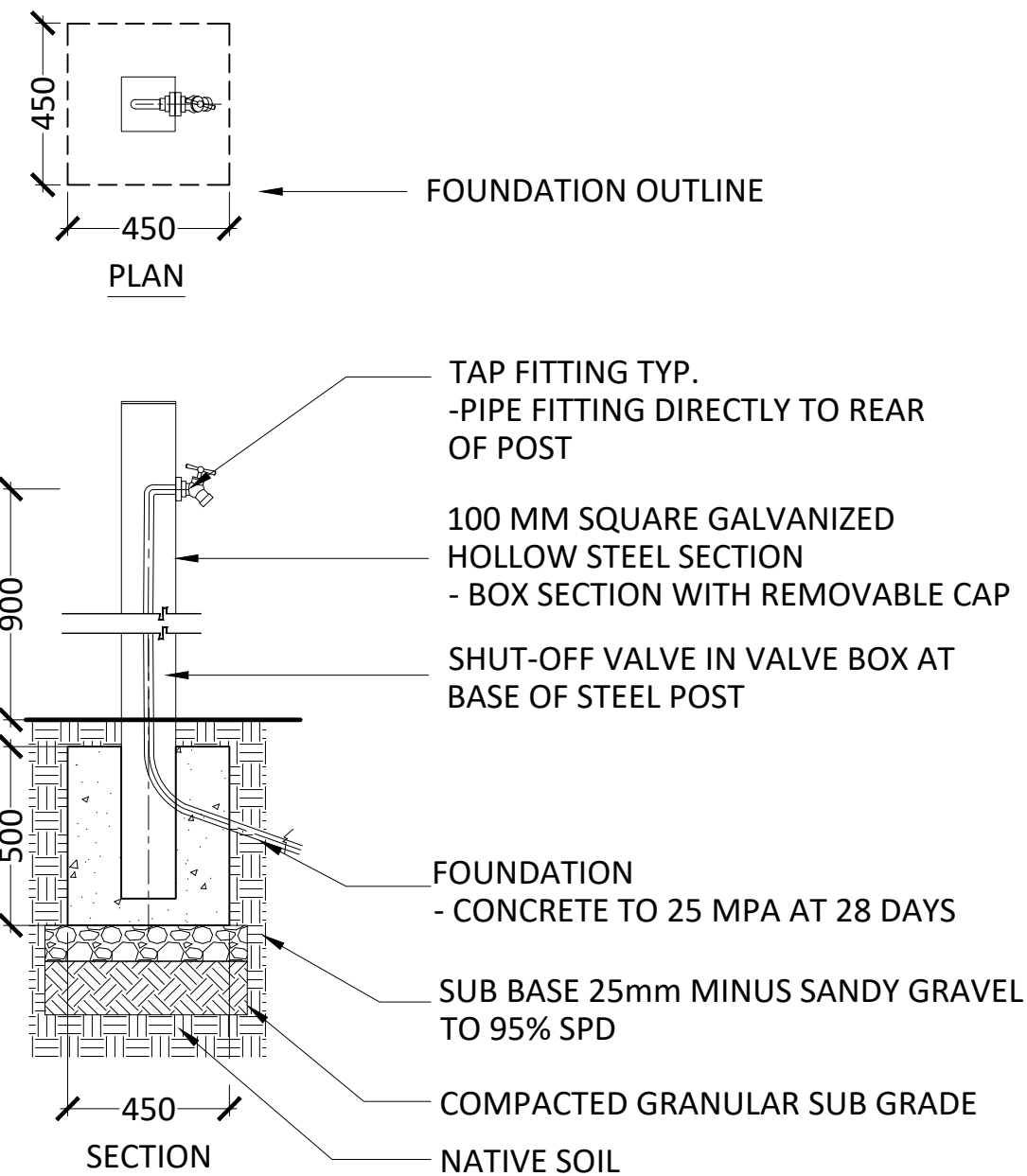


2 TYPICAL TRENCH - SECTION
 SCALE: 1:10



3 TYPICAL ROTOR POP-UP IRRIGATION HEAD
 SCALE: 1:10

NOTES:
 - HOSE BIB FITTING SUBJECT TO APPROVAL BY THE CONTRACT ADMINISTRATOR
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY CA.



PRECEDENT IMAGE

4 STANDPIPE
 SCALE: 1:20

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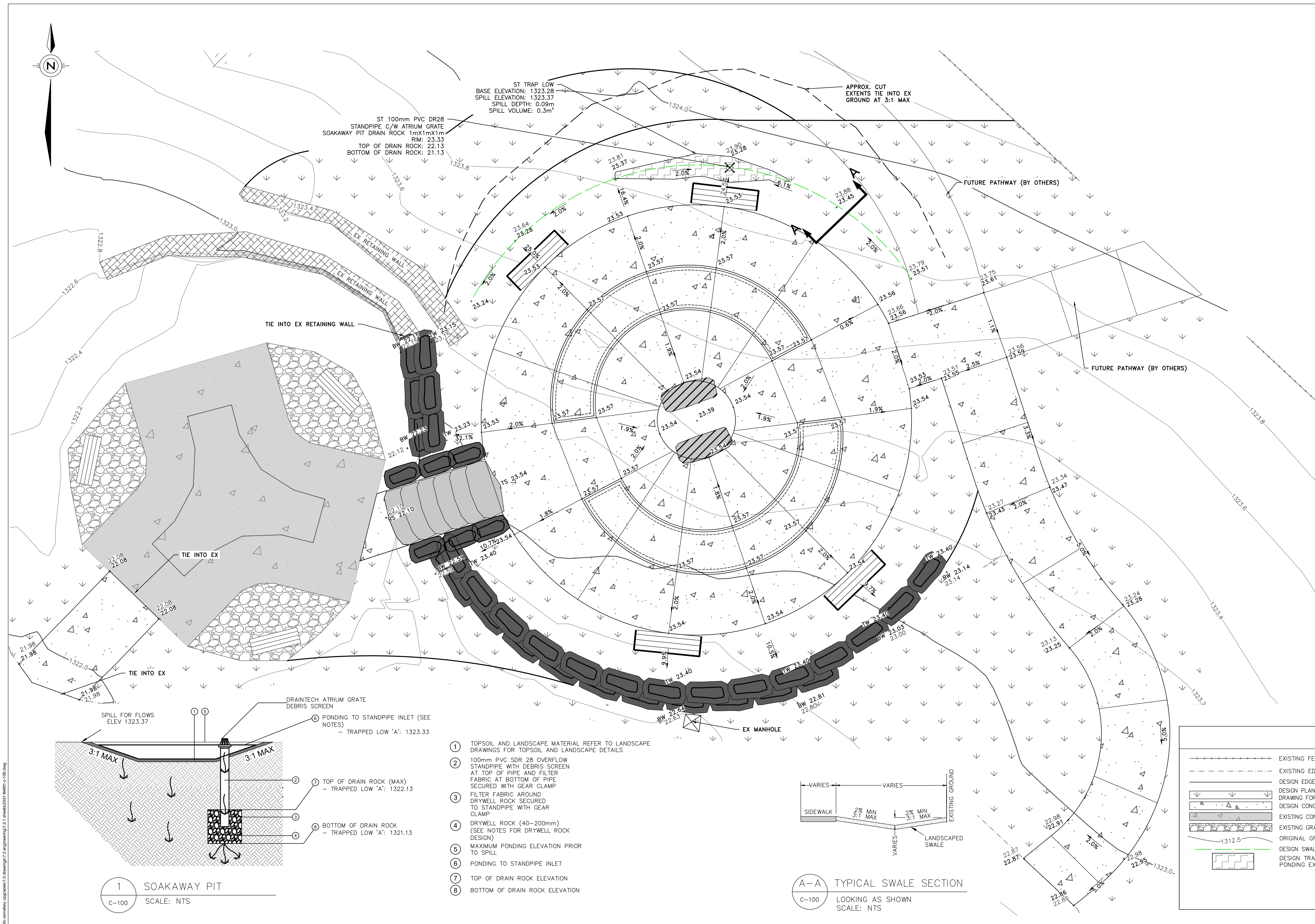
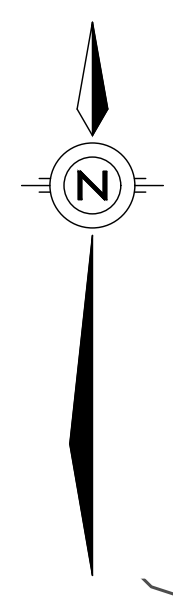
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Project
CANMORE CEMETERY FINAL DESIGN AND NEW COLUMBARIUM

Drawing Title
DETAILS IRRIGATION

Date OCTOBER, 2022	ELAC Project No. 21-816
Scale (On 22 x 34 Inch Sheet) As Noted	Drawing No. L8.2
Drawn By LB	
Checked HR	

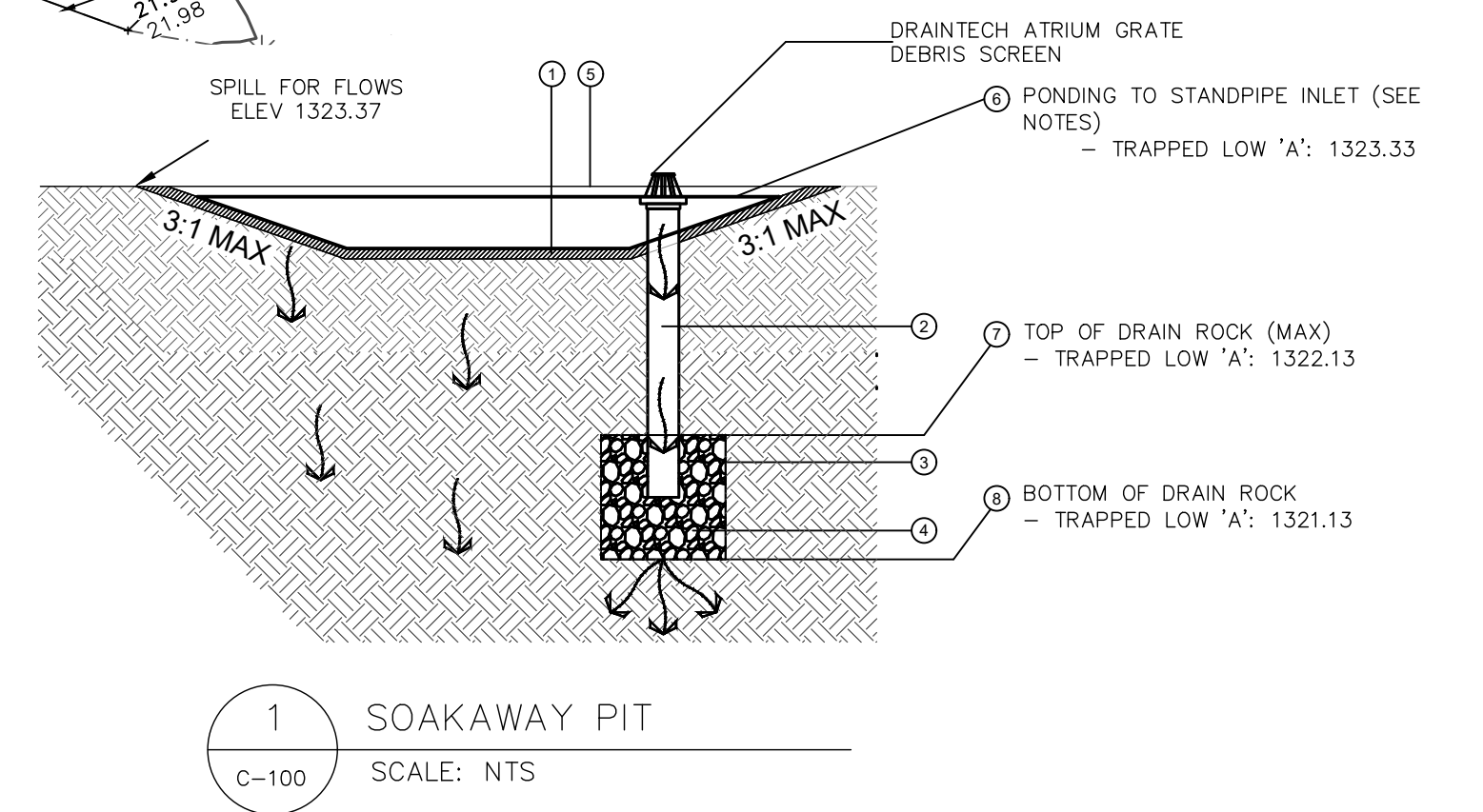
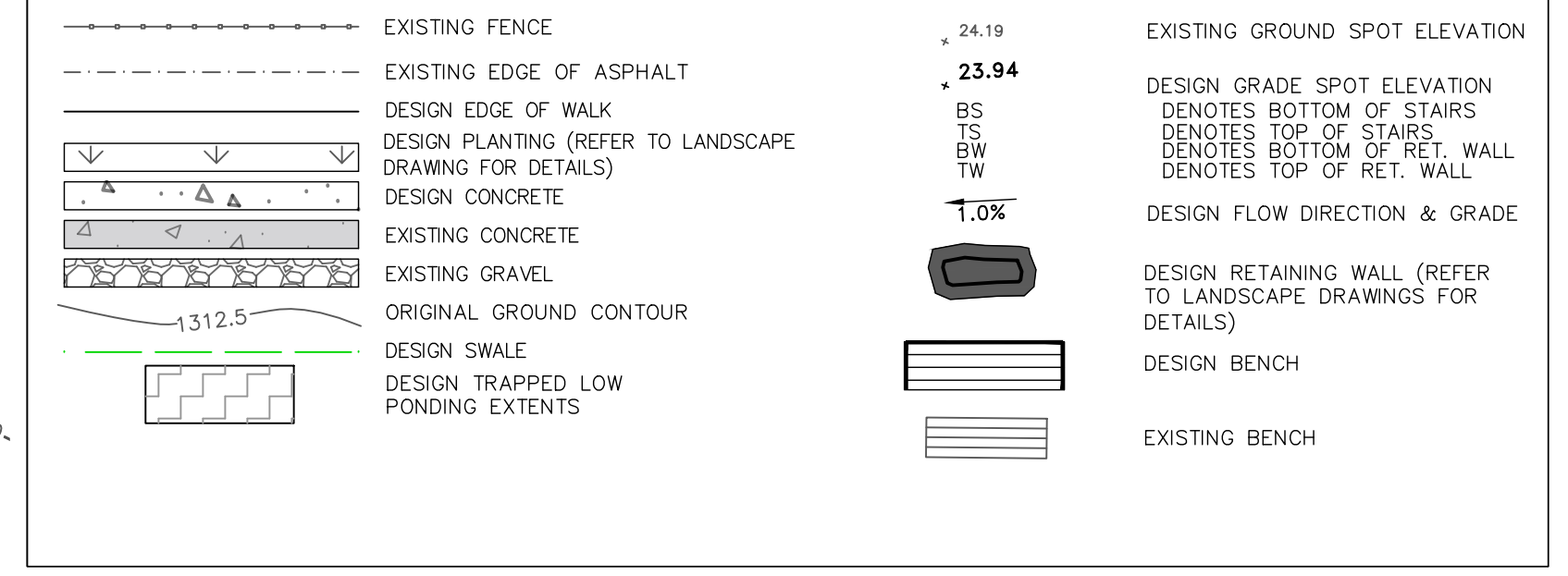


NOTES

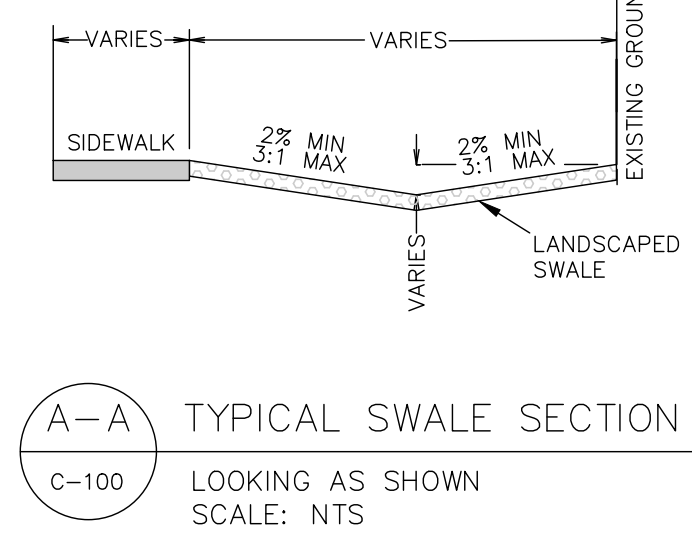
- 1) ALL INSTALLATIONS AND MATERIALS SHALL BE AS PER CURRENT TOWN OF CANMORE AND ALBERTA ENVIRONMENT SPECIFICATIONS.
- 2) ALL ELEVATIONS ARE PREPARED BY 1300m GEODETIC.
- 3) ALL EXISTING ROADS AND GROUND AREAS INCLUDING LANDSCAPING, CULVERTS AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION OR BY CONSTRUCTION ACTIVITIES ARE TO BE RETURNED TO PRE-CONSTRUCTION CONDITION OR BETTER AFTER CONSTRUCTION IS COMPLETE.
- 4) THE CONTRACTOR IS WARNED THAT CONFLICTS WITH EXISTING UTILITY SERVICES MAY EXIST INCLUDING SHALLOW UTILITIES, CULVERTS, SUBDRAINS, ROOF DRAINS, IRRIGATION LINES, WATER AND SEWER LINES, STREET LIGHT ELECTRIC SERVICE LINES, AND OTHERS. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES FOR LINE LOCATIONS, AND CONTRACTOR SHALL THEN LOCATE ALL UTILITIES (INCLUDING DEPTH). McELHANNEY LTD. ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. ANY CONFLICTS WITH THE CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT MINOR LINE OR GRADE CHANGES CAN BE MADE TO ELIMINATE ANY CONFLICTS WITH THESE EXISTING UTILITIES. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. UTILITIES THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER OR ENGINEER.
- 5) THE CONTRACTOR IS TO CONTACT THE CONSULTANT FOR ANY REQUIRED INSPECTIONS. THE CONSULTANT IS TO CONTACT THE TOWN OF CANMORE TO INFORM THE TOWN OF ANY WORK. THE CONTRACTOR IS TO NOTIFY THE CONSULTANT 24 HOURS IN ADVANCE OF ANY WORK OR INSPECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY MUNICIPAL PERMITS REQUIRED TO COMPLETE WORK WITHIN THE PUBLIC RIGHT OF WAY.
- 6) SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY WITH ANY REGULATIONS RELATING THERETO.
- 7) TRAFFIC CONTROL DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 8) IF ANY GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- 9) THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE CHANNELS, CULVERTS AND APPURTENANCES DURING CONSTRUCTION AS NECESSARY TO PROTECT ROADS AND PROPERTY.
- 10) NO SILT LADEN WATER SHALL BE ALLOWED TO FLOW FROM SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES INCURRED CAUSED BY SILT LADEN WATER LEAVING THE SITE.
- 11) THE CONTRACTOR SHALL MAINTAIN ACCESS TO FIRE HYDRANTS AND WATER CONNECTIONS THROUGHOUT CONSTRUCTION.
- 12) NO TREES ARE TO BE REMOVED UNLESS DIRECTED BY ENGINEER.
- 13) APPLICABILITY OF NATIVE MATERIAL FOR CONSTRUCTION TO BE CONFIRMED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
- 14) ANY EXISTING VALVES OR MANHOLES WITHIN THE LIMIT OF CONSTRUCTION TO BE RESET TO PROPOSED GRADES. VALVES MAY REQUIRE NEW ROADS TO MEET TOWN SPECIFICATIONS FOR HEIGHT TO FINISHED GRADE.
- 15) ANY ROADS/WAYS IMPACTED BY CONSTRUCTION TO BE REINSTALLED IN THE SAME LOCATION AND AT THE SAME SIGN HEIGHT AS PRE-CONSTRUCTION. TEMPORARY SIGNAGE MAINTENANCE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 16) ALL NEW BERMS AND LANDSCAPED AREAS DISTURBED BY CONSTRUCTION TO BE TOPSOILED AS PER TOWN OF CANMORE LANDSCAPING STANDARDS.
- 17) ALL CONCRETE FOR SURFACEWORKS TO BE SYNTHETIC FIBRE REINFORCED AS PER ASTM C1116, 4.1.3, TYPE III AND SHALL BE OLEFIN MACRO FIBRES. FIBRE CONTENT TO BE 1-2KG/m³ WITH FIBRE LENGTH 38-50mm.

- FIELD REVIEWS BY McELHANNEY LTD. (McELHANNEY):
- 1) McELHANNEY ASSUMES NO RESPONSIBILITY FOR FIELD REVIEWS OF THE CONSTRUCTION OR VERIFICATION OF THE CONSTRUCTION UNLESS EXPRESSLY RETAINED TO DO SO.
 - 2) McELHANNEY CAN PROVIDE FIELD REVIEWS ONLY FOR THE WORK SHOWN ON THESE DRAWINGS. FIELD REVIEWS BY McELHANNEY ARE PERIODIC AND AT THE SOLE DISCRETION OF McELHANNEY TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS AND SUPPORTING DOCUMENTS.
 - 3) FIELD REVIEWS BY McELHANNEY ARE NOT FOR THE CONTRACTOR'S BENEFIT NOR DOES IT MAKE McELHANNEY GUARANTORS OF THE CONTRACTOR'S WORK. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS; APPLICABLE CODES, STANDARDS, AND GUIDELINES; MANUFACTURER'S RECOMMENDATIONS; AND ANY OTHER RELEVANT REQUIREMENTS.
 - 4) McELHANNEY WILL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS; APPLICABLE CODES, STANDARDS, AND GUIDELINES; MANUFACTURER'S RECOMMENDATIONS; AND ANY OTHER RELEVANT REQUIREMENTS.
 - 5) IF McELHANNEY IS RETAINED FOR FIELD REVIEWS THEN THE CONTRACTOR IS TO PROVIDE 24HOURS NOTICE PRIOR TO THE REQUIRED REVIEW.

LEGEND



- 1) TOPSOIL AND LANDSCAPE MATERIAL REFER TO LANDSCAPE DRAWINGS FOR TOPSOIL AND LANDSCAPE DETAILS
- 2) 100mm PVC SDR 26 OVERFLOW STANDPIPE WITH DEBRIS SCREEN AT TOP OF PIPE AND FILTER FABRIC AT BOTTOM OF PIPE SECURED WITH GEAR CLAMP
- 3) FILTER FABRIC AROUND DRYWELL ROCK SECURED TO STANDPIPE WITH GEAR CLAMP
- 4) DRYWELL ROCK (40-200mm) (SEE NOTES FOR DRYWELL ROCK DESIGN)
- 5) MAXIMUM PONDING ELEVATION PRIOR TO SPILL
- 6) PONDING TO STANDPIPE INLET
- 7) TOP OF DRAIN ROCK ELEVATION
- 8) BOTTOM OF DRAIN ROCK ELEVATION



McElhanney
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 CANMORE AB, T1W 1N9
 PH (403) 609-3992
 www.mcelhanney.com

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PERMIT TO PRACTICE
McELHANNEY LTD.
 RM SIGNATURE: [Signature]
 RM APEGA ID #: 82382
 DATE: 2023-02-02
PERMIT NUMBER: P006383
 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

PROFESSIONAL ENGINEER ALBERTA
 GRAND D. KRAMER
 236884
 2023-01-31

PB	31	01	23	ISSUED FOR TENDER	GT	CC	GK
PA	16	12	22	ISSUED FOR 90% REVIEW	KB	CC	GK
REV	D	M	Y	DESCRIPTION	DPS	CHK	ENG
CONSULTANT:				CONSULTANT FILE NUMBER:			
McELHANNEY LTD.				2531-64901			

DRAWN: KB DATE: NOV 22
 SCALE: 1:50
 APPROVED: [Signature]

LEES AND ASSOCIATES
 CANMORE CEMETERY CREMATION GARDEN
 SURFACEWORKS AND GRADING
 PLAN
 SHEET NO: 2531-64901-C-100
 TOWN FILE NO:

DATE: 2023-11-04 10:46 AM BY: EST/BOC
 FILE: C:\Projects\2531-64901-C-100\Drawings\2531-64901-C-100.dwg
 PLOT: C:\Projects\2531-64901-C-100\Drawings\2531-64901-C-100.dwg

STRUCTURAL NOTES

GENERAL

- ALL CONSTRUCTION IS TO CONFORM TO THE NATIONAL BUILDING CODE - ALBERTA EDITION (2019).
- ALL REFERENCES TO CONSTRUCTION STANDARDS NOTED ON THESE DRAWINGS REFER TO THE LATEST REVISED ISSUE.
- THE DRAWING PREPARED BY McELHANNEY LTD. (McELHANNEY) ARE INTENDED FOR STRUCTURAL REQUIREMENTS OF THIS PROJECT ONLY. ALL OTHER ASPECTS ASSOCIATED WITH THIS PROJECT WHICH INCLUDE, BUT ARE NOT LIMITED TO, ARCHITECTURAL, CIVIL, GEOTECHNICAL, OCCUPANT SAFETY AND ACCESSIBILITY ARE TO BE DESIGNED, SPECIFIED AND APPROVED BY OTHERS AND ARE CONSIDERED BEYOND McELHANNEY SCOPE OF WORK.
- STRUCTURAL ELEMENTS PRESENTED ON THESE DRAWINGS ARE FOR PERMANENT STRUCTURE AND FOUNDATIONS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY AND CONSTRUCTION BRACING AND SUPPORT INCLUDING GEOTECHNICAL REQUIREMENTS UNTIL THE PROJECT IS COMPLETED.
- REFER TO ARCHITECTURAL AND CIVIL DRAWINGS AND SPECIFICATIONS FOR DIMENSIONS, GRADES, ETC. GRADES, ELEVATIONS AND SLOPES SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND MUST BE CONFIRMED WITH ARCHITECTURAL DRAWINGS AND/OR SITE CONDITIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOB SITE. FOR INFORMATION THAT PERTAINS SOLELY TO FABRICATION PROCESSES OR TO TECHNIQUES OF CONSTRUCTION AND INSTALLATION AND FOR COORDINATION OF THE WORK OF ALL SUB-TRADES.

REFERENCED DRAWINGS

- FOUNDATION LAYOUT AND STRUCTURAL SIZING IS BASED ON ARCHITECTURAL DESIGN DRAWINGS PREPARED BY LEES AND ASSOCIATES LANDSCAPE.
- McELHANNEY HAS RELIED ON THE ARCHITECTURAL DRAWING SET AS ACCURATE AND TRUE. McELHANNEY IS NOT RESPONSIBLE FOR ANY ERRORS/OMISSIONS ON THESE DRAWINGS AS A RESULT OF ERRORS OR SUBSEQUENT CHANGES TO THE ARCHITECTURAL DRAWING SET OR UNKNOWN SITE AND AS-BUILT CONDITIONS.
- IF CHANGES ARE MADE TO THE LAYOUT OF THE STRUCTURES, OR SITE CONDITIONS VARY FROM ASSUMED, OR THE ASSUMED LOAD PATHS ARE ALTERED, THE ARCHITECT AND STRUCTURAL ENGINEER SHOULD BE NOTIFIED SUCH THAT CHANGES CAN BE MADE TO THE DESIGN IF REQUIRED.
- McELHANNEY HAS ASSUMED THAT THE SUPPLIED SHED BUILDING WAS DESIGNED AND CONSTRUCTED TO BUILDING CODE REQUIREMENTS AT THE TIME OF CONSTRUCTION AND McELHANNEY HAS NOT REVIEWED THE STRUCTURAL COMPLETENESS OF THE SHED BUILDING STRUCTURE AS SUCH McELHANNEY ACCEPTS NO RESPONSIBILITY FOR THE STRUCTURAL COMPETENCY AND STABILITY OF THE EXISTING STRUCTURE.

FIELD REVIEWS BY McELHANNEY LTD.

- McELHANNEY ASSUMES NO RESPONSIBILITY FOR FIELD REVIEWS OF THE CONSTRUCTION OR VERIFICATION OF THE CONSTRUCTION UNLESS EXPRESSLY RETAINED TO DO SO.
- McELHANNEY LTD. (McELHANNEY) PROVIDE FIELD REVIEWS ONLY FOR THE WORK SHOWN ON THESE DRAWINGS. FIELD REVIEWS BY McELHANNEY ARE PERIODIC AND AT THE SOLE DISCRETION OF McELHANNEY IN ORDER TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS AND SUPPORTING DOCUMENTS.
- FIELD REVIEWS BY McELHANNEY ARE NOT FOR THE CONTRACTORS BENEFIT NOR DOES IT MAKE McELHANNEY GUARANTORS OF THE CONTRACTORS WORK. IT REMAINS THE CONTRACTORS RESPONSIBILITY TO BUILD THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
- McELHANNEY WILL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- IF McELHANNEY IS RETAINED FOR FIELD REVIEWS THEN THE CONTRACTOR IS TO PROVIDE 24 HOUR NOTICE PRIOR TO CONCRETE POURS AND BEFORE ENCLOSING FRAMING ELEMENTS. FIELD REVIEWS ARE TO BE SCHEDULED AND TO BE CARRIED OUT DURING NORMAL BUSINESS HOURS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH McELHANNEY.

DESIGN STANDARDS:

- ALL STRUCTURAL COMPONENTS ARE TO BE DESIGNED AND FABRICATED IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE - ALBERTA EDITION (2019), CSA S16, CSA 086., TYPIC PROCEDURES AND LOCAL BYLAWS.
- DESIGN LOADINGS:

SNOW		SEISMIC DATA	
S _s = 3.2 kPa	S _a (0.2) = 0.278		
S _r = 0.1 kPa	S _a (0.5) = 0.183		
I _s = 1.0	S _a (1.0) = 0.098		
	S _a (2.0) = 0.046		
	PGA = 0.128		
	SOIL SITE CLASSIFICATION = D		
	I _e = 1.0		

DEAD	
SHED = 42.3kN	
COLUMBARIUM = 127kN	

WIND	
1/50 YEARS = 0.37kPa	
I _w = 1.0	

GEOTECHNICAL INFORMATION

- REFER TO THE GEOTECHNICAL REPORT PREPARED BY TAYLOR GEOTECHNICAL LTD. (DATED AUGUST 16, 2022, GEOTECHNICAL INVESTIGATION FOR GREENFIELD PARCEL AT GAMMORE CEMETERY PALISER TRAIL, CANMORE, AB, TGL FILE 2022-046) FOR SOIL CONDITIONS TO BE EXPECTED ON THIS SITE.
- IT IS THE RECOMMENDATION OF McELHANNEY LTD. THAT THE OWNER RETAIN A QUALIFIED GEOTECHNICAL ENGINEER TO MONITOR PILE INSTALLATION AND CONFIRM THE SUITABILITY OF THE ACTUAL GEOTECHNICAL CONDITIONS AND RECOMMENDATIONS FOR THIS PROJECT.

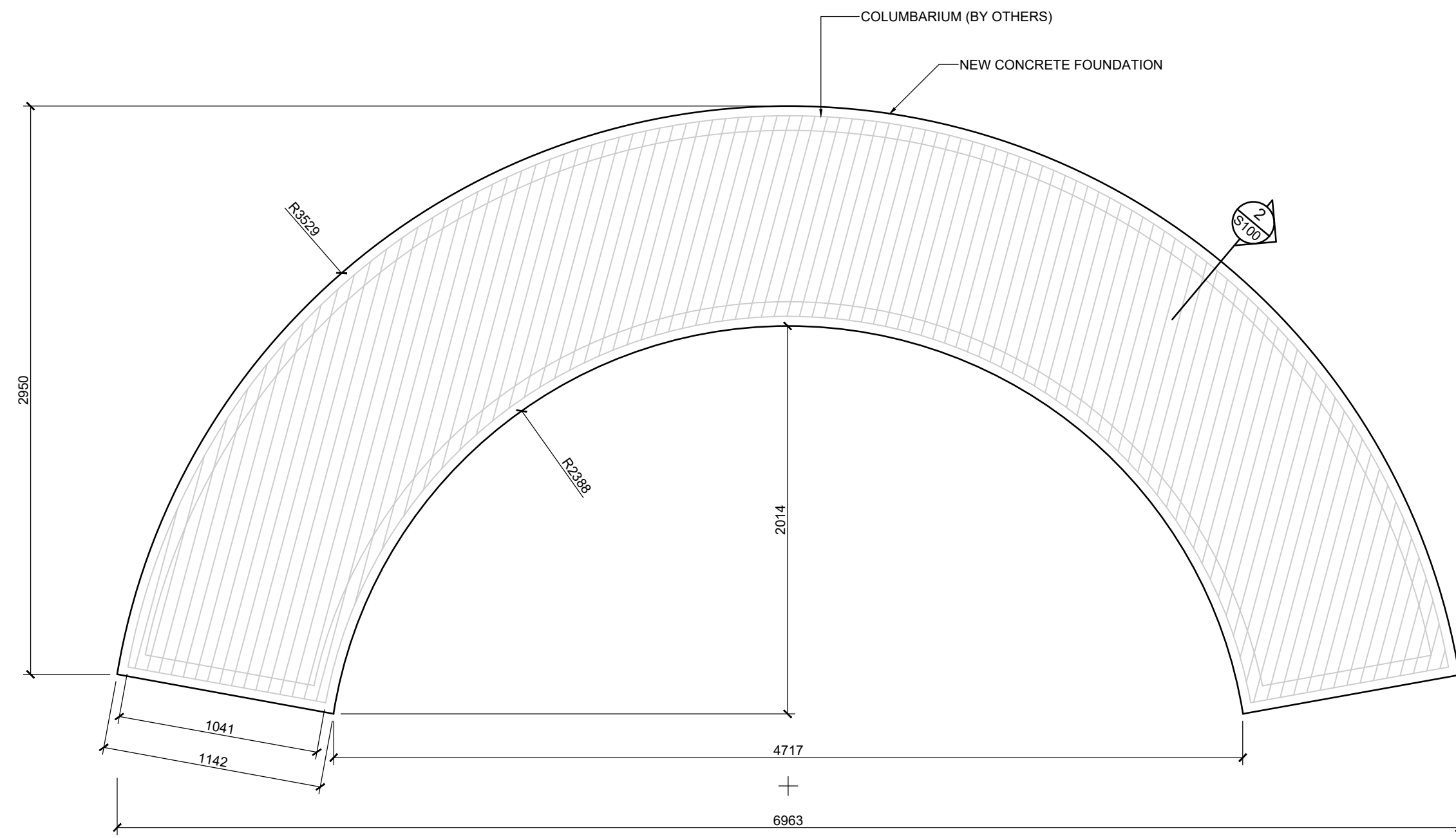
CONCRETE

- PREPARATION, PLACING AND FINISHING OF CONCRETE IS TO CONFORM TO CSA A23.1.
- TESTING OF CONCRETE IS TO CONFORM TO CSA A23.2. THE MINIMUM NUMBER OF TESTS IS NOT TO BE LESS THAN ONE (1) COMPRESSIVE STRENGTH, SLUMP AND AIR TEST FOR EACH CONCRETE ELEMENT (FOOTINGS, FOUNDATIONS AND SLABS). IN ADDITION:
 - COMPRESSIVE STRENGTH TESTING FREQUENCY IS TO BE FOR ONE (1) TEST PER DAY FOR CONCRETE OF A SINGLE MIX DESIGN AND FOR EVERY 100 CUBIC METERS PLACED.
 - AIR CONTENT TEST FREQUENCY FOR CONCRETE CLASSES F1, C-XL AND C1 IS TO BE ONE (1) TEST FOR EVERY LOAD OR BATCH.
- IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE TESTING SCHEDULE AND TIMING WITH THE TESTING AGENCY.
- IF A CONCRETE HARDENER IS SELECTED BY THE OWNER/ARCHITECT THEN THE AIR CONTENT OF THE CONCRETE IS TO BE COORDINATED WITH THE MANUFACTURER FOR COMPATIBILITY.
- CONCRETE PROPERTIES:

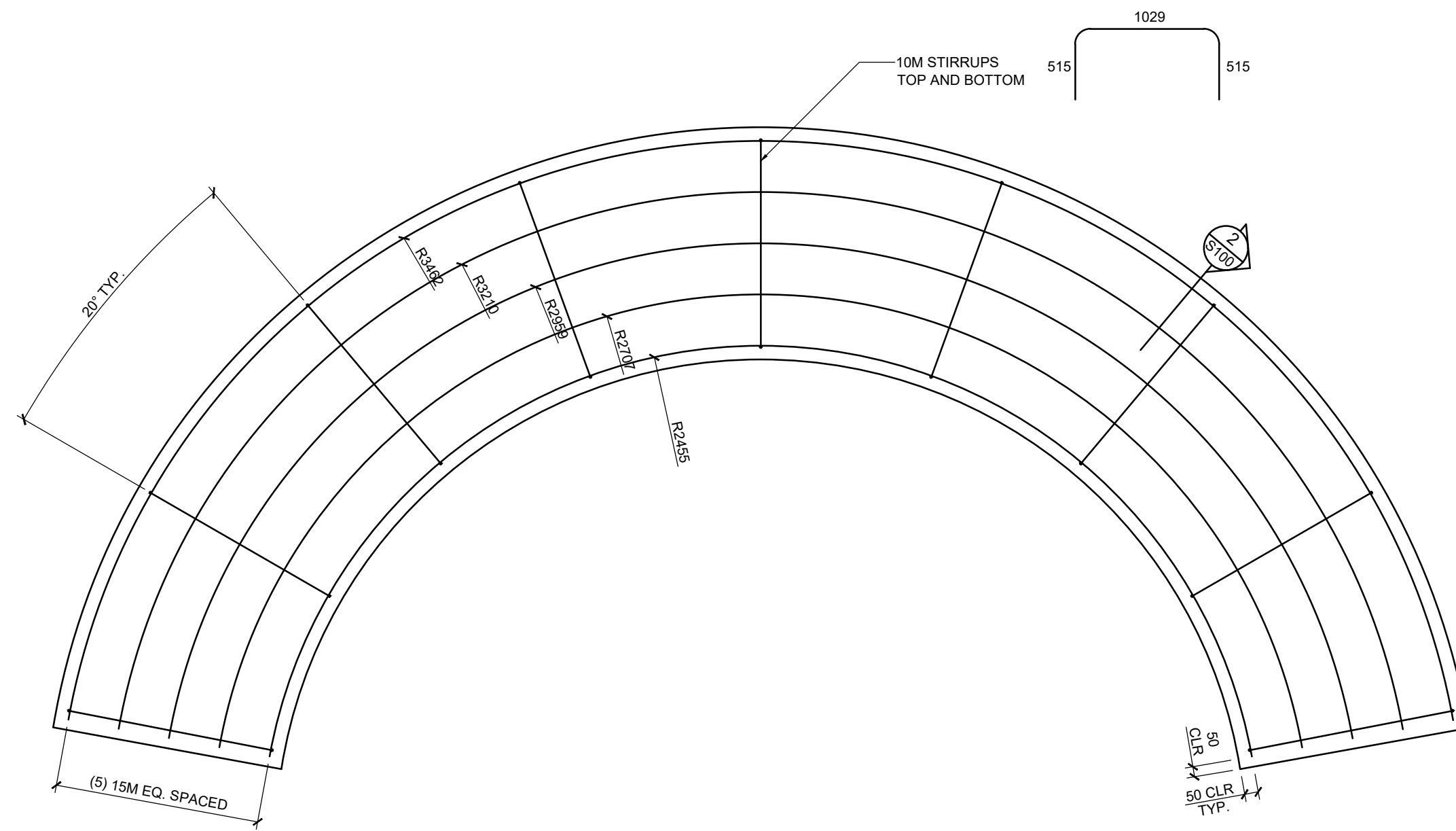
ITEM	28 DAY STRENGTH	EXPOSURE CLASS	W/C	AIR (%)	CEMENT TYPE	AGG. SIZE (mm)
FOOTINGS	25 Mpa	N	.55	4 - 7	GU	20
FOUNDATIONS	25 Mpa	F-2	.55	4 - 7	GU	20
INTERIOR SLAB	25 Mpa	N	.45	3 - 6	GU	20

REINFORCING

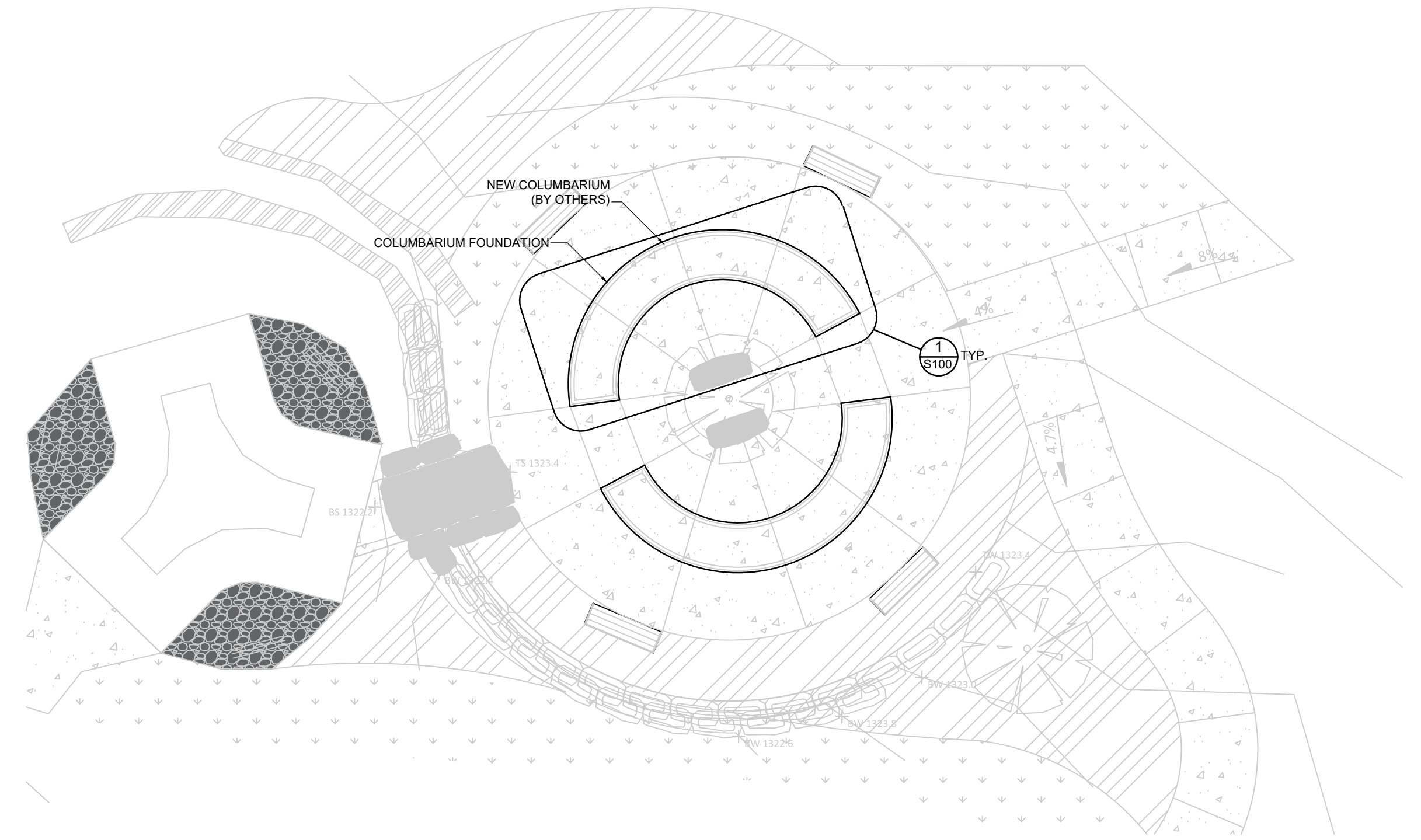
- REINFORCING STEEL IS TO CONFORM TO CSA G30.12M - GRADE 400 MPa.
- REINFORCING STEEL IS TO BE PLACED AS DETAILED TO 10mm TOLERANCE AND IS TO BE SUPPORTED BY PLASTIC SUPPORTS AND/OR HANGERS IN ACCORDANCE WITH CAN/CSA A23.1
- LAP ALL REINFORCING BAR SPLICES 32 BAR DIAMETERS MINIMUM UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- REINFORCING STEEL IS TO BE CLEAN, FREE OF CORROSION AND UNDAMAGED.
- DO NOT WELD BARS OR USE HEAT TO BEND REINFORCING STEEL.
- WELDED WIRE MESH IS TO CONFORM TO CSA G30.15.
- CONCRETE COVER OVER REINFORCEMENT IS TO BE:
 - SURFACE PLACED IN CONTACT WITH GROUND = 75mm
 - FORMED SURFACE EXPOSED TO GROUND OR WEATHER = 50mm



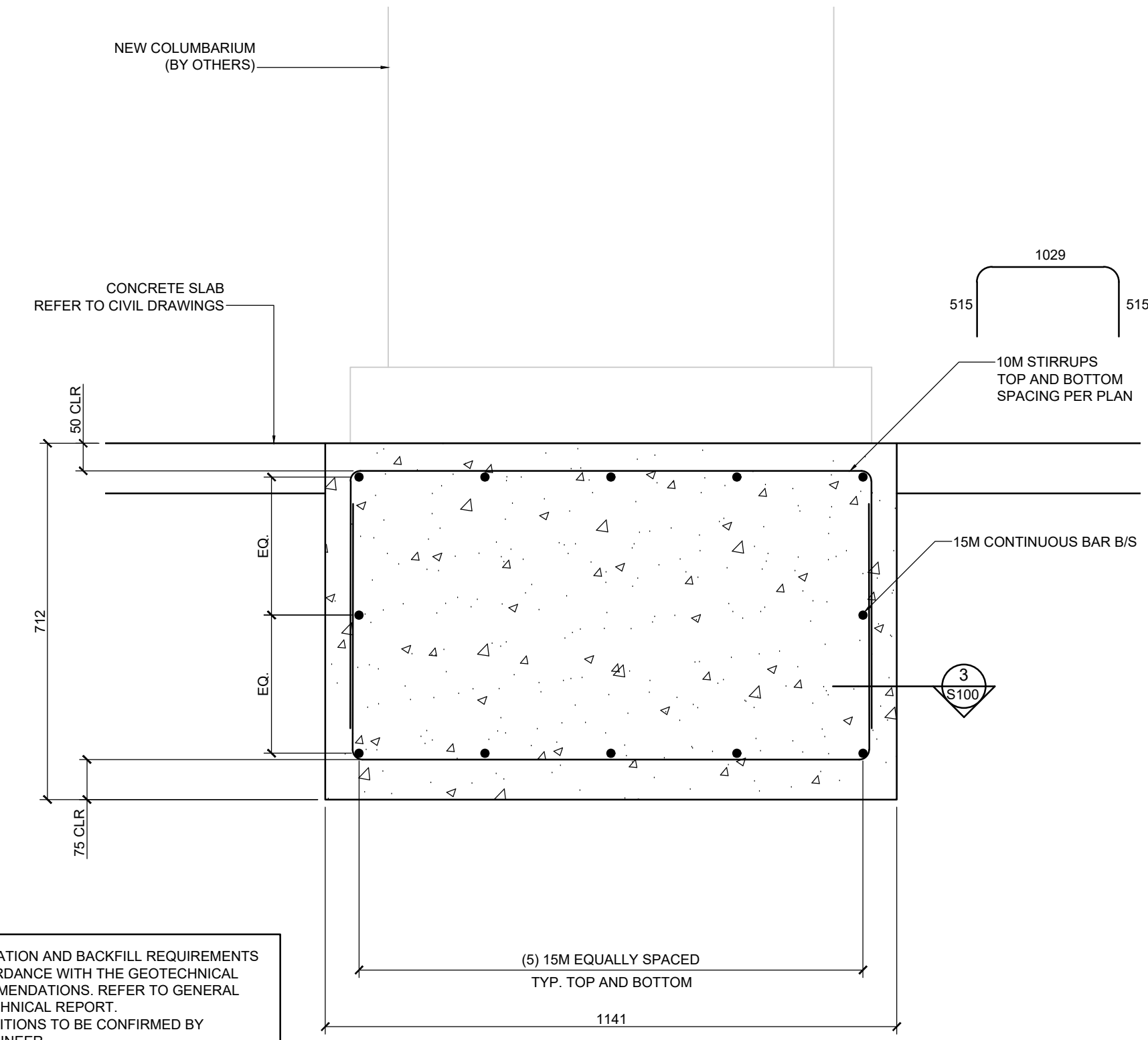
1 COLUMBARIUM FOUNDATION PLAN
SCALE: 1:25



3 FOUNDATION REINFORCEMENT PLAN
SCALE: 1:25



A SITE PLAN
SCALE: 1:100



2 COLUMBARIUM FOUNDATION SECTION
SCALE: 1:10

CONTRACTOR'S NOTE:
DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS AND REPORT ANY/ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION.

STRUCTURAL DRAWING LIST

DWG NO.	DESCRIPTION
S100	GENERAL NOTES AND COLUMBARIUM FOUNDATION DETAILS
S101	SHED FOUNDATION PLANS, SECTIONS AND DETAILS

Rev	Date	Description	Drawn	Design	App'd
0	FEB 01, 2023	ISSUED FOR TENDER	JB	JB	SB
A	DEC 16, 2022	ISSUED FOR REVIEW	JB	JB	SB

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THIS DRAWING IS PART OF A COMPLETE SET OF DRAWINGS AND IS TO BE READ IN CONJUNCTION WITH ALL SHEETS WITHIN THE DRAWING SET. REFER TO ALL SHEETS INCLUDING STRUCTURAL NOTES PROVIDED ON SHEET S100.

THIS DRAWING IS INTENDED FOR THE STRUCTURAL CONSTRUCTION OF THIS PARTICULAR PROJECT AND IS NOT INTENDED TO BE USED AS A RECORD DRAWING UNLESS SPECIFICALLY NOTED AS SUCH.

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THE PROFESSIONAL SEAL APPLIED TO THESE DRAWINGS APPLIES ONLY TO THE STRUCTURAL ASPECT OF THIS PROJECT. OTHER ELEMENTS SHOWN ON THIS DRAWING IS FOR REFERENCE ONLY AND IS SPECIFIED BY OTHERS AND IS NOT WITHIN THE SCOPE OF WORK OF BY McELHANNEY.

McElhanney
McElhanney Ltd.

203-502 Bow Valley Trail
Canmore, AB
Canada, T1W 1N9
Tel (403) 609-3992

ORIGINAL DWG SIZE: ARCH D (24" x 36") - DO NOT SCALE THIS DRAWING

Permit to Practice

LEES & ASSOCIATES LANDSCAPE ARCHITECTS
509-318 HOMER STREET, VANCOUVER, BC, V6B 2V2

TOWN OF CANMORE CEMETERY UPGRADES
COLUMBARIUM AND SHED FOUNDATIONS
GENERAL NOTES AND COLUMBARIUM FDN DETAILS

Drawing No. **S100**

Sheet 1 of 2

Project Number 2531-64901

Rev. 0

← CEMETERY ALL PRINTS REQUIRING PREVIOUS REVISION