

PROJECT TITLE

MT PLEASANT UNISTONE & MEMORIAL PLAZA

PROJECT INFORMATION

LOCATION

PROJECT ADDRESS
MOUNT PLEASANT CEMETERY
5420 106 ST N.W.
EDMONTON, AB
T6H 2S9

LEGAL ADDRESS
PLAN 0022393; BLOCK 33; LOT 17

SCOPE OF WORK

- NEW PLAZA
- RELOCATING MEMORIAL
- LANDSCAPING, HARDSCAPING, AND PLANTING WITHIN THE GARDEN AREA

PROJECT TEAM

CLIENT



City of Edmonton
10111 - 104 Avenue NW
Edmonton, Ab
T5J 0J4

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780.442.5311

PRIME CONSULTANT



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T2R 1L5

www.lemaytoker.com
(403) 245 - 3089

STRUCTURAL



Ethos Engineering
8526 109 St NW #2
Edmonton, AB
T6G 1E5

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(780) 436-2992

CIVIL



Williams Engineering
N195, 3015 - 5 AVE NE
Calgary, AB
T2A 6T8

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(403) 263-2392

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PROJECT SITE A PROJECT SITE B



LOCATION PLAN
NTS



ZONING MAP
NTS

SET NO.

2

ISSUED:

ISSUED FOR TENDER
2020-03-19

PROJECT TITLE:

MT PLEASANT UNISTONE &
MEMORIAL PLAZA

PROJECT NUMBER:

CITYE-18-05

GENERAL

ARCHITECTURE

LANDSCAPE

STRUCTURAL

- L-000 COVER SHEET
- L-001 GENERAL NOTES
- L-002 GENERAL NOTES
- L-101 SITE DEMO, TREE PROTECTION- PROJECT SITE A
- L-102 GRADING & LAYOUT PLANS - PROJECT SITE A
- L-103 PLANTING PLAN & SITE DETAILS - PROJECT SITE A
- L-104 SITE DEMOLITION - PROJECT SITE B
- L-105 GRADING & LAYOUT PLAN - PROJECT SITE B
- L-106 PLANTING PLAN - PROJECT SITE B
- L-201 DETAILS - PROJECT SITE A
- L-202 DETAILS - PROJECT SITE A
- L-203 DETAILS - PROJECT SITE A
- L-204 SITE SECTIONS AND DETAILS - PROJECT B

- S0-01 GENERAL NOTES
- S1-00 ISOMETRIC
- S1-01 FOUNDATION PLAN
- S2-01 SECTIONS

GENERAL NOTES:

THE CURRENT, MOST UP TO DATE VERSION OF THE CITY OF EDMONTON (COE) DESIGN AND CONSTRUCTION STANDARDS VOLUME 5: LANDSCAPING (COE-DCS-V5) SHALL BE ADHERED TO, ENSURING THAT LANDSCAPE DEVELOPMENT IS WELL-CONSTRUCTED AND TAKES INTO ACCOUNT AND ADHERES TO THE COE MAINTENANCE STANDARDS.

THE COE LANDSCAPING SECTION APPLIES TO THIS PROJECT AND INCLUDES THE FOLLOWING RELATED SECTIONS --

- A. DESIGN AND CONSTRUCTION STANDARDS VOLUME 2: ROADWAYS, SECTION 02335 - SUBGRADE PREPARATION (OF NEW UNISTONE AREAS AND RAIN GARDEN PLANTING BEDS);
B. DESIGN AND CONSTRUCTION STANDARDS VOLUME 5: LANDSCAPING, SECTION 02910 - TOPSOIL (GROWING MEDIUM FOR RAIN GARDEN PLANTING BEDS);
C. DESIGN AND CONSTRUCTION STANDARDS VOLUME 5: LANDSCAPING, SECTION 02914 - MULCHES (PINE BARK CHUNK-TYPE MULCH FOR RAIN GARDEN PLANTING BEDS);
D. DESIGN AND CONSTRUCTION STANDARDS VOLUME 5: LANDSCAPING, SECTION 02930 - TREES, SHRUBS AND GROUNDCOVERS (FOR PLANTING OF RAIN GARDEN AREAS).

DEFINITIONS:

- 1. THE WORD "CONTRACTOR" REFERS EQUALLY TO A GENERAL CONTRACTOR OR A CONSTRUCTION MANAGER.
2. THE WORD "CONSULTANT" OR "DESIGNER" REFERS TO THE ARCHITECT, LANDSCAPE ARCHITECT OR ENGINEER WHO PREPARED THE CONTRACT DOCUMENTS.
3. THE WORD "OWNER" OR "CITY CONSULTANT" REFERS TO THE CLIENT (CITY OF EDMONTON) WHO THE DOCUMENTS ARE PREPARED FOR.
4. THE WORDING "CODE" REFERS TO MEETING OR EXCEEDING THE REQUIREMENTS OF THE 2006 ALBERTA BUILDING CODE, ALL MUNICIPAL BYLAWS, CODES, ORDINANCES, GUIDELINES, AND THE AUTHORITIES HAVING JURISDICTION.

GENERAL NOTES:

- 1. CONTRACTOR SHALL UNDERTAKE AND EXECUTE ALL WORK TO MEET OR EXCEED THE REQUIREMENTS OF THE LATEST VERSION OF THE ALBERTA BUILDING CODE, ALL MUNICIPAL BYLAWS, CODES, ORDINANCES, GUIDELINES, AND THE AUTHORITIES HAVING JURISDICTION.
2. ALL WORK SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF 2 YEARS, UNLESS NOTED OTHERWISE.
3. THIS CONTRACT IS FOR A COMPLETE LANDSCAPE CONSTRUCTION COORDINATION OF ALL RELATED TRADES. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ANY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITS & INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND AFTER COMPLETION OF WORK, PRIOR TO CONSTRUCTION COMPLETION FORWARD A COPY OF ALL REQUIRED VERIFICATIONS AND CERTIFICATES TO CONSULTANT.
5. CONTRACTORS SHALL CHECK SITE PRIOR TO SUBMITTING TENDERS AND INCLUDE FOR ALL WORK NECESSARY FOR A COMPLETE INSTALLATION.
6. ANY ERRORS, OMISSIONS OR DISCREPANCIES IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT IMMEDIATELY. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION. NO CONTRACT REVISIONS OR EXTRAS WILL BE ALLOWED FOR FAILURE TO VERIFY SITE CONDITIONS & DIMENSIONS.
7. CONTRACTOR SHALL COMPLY WITH THE RULES & REGULATIONS FOR CONSTRUCTION WITHIN THE SITE AS SET OUT BY THE OWNER TO MEET TYPICAL DEVELOPMENT STANDARDS.
8. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND FAMILIARIZE THEMSELVES WITH THE CONSTRUCTION AND SITE ACCESS, PARKING AND LOCAL BUSINESS LICENSING AND INCLUDE SUCH COSTS IN CONTRACT.
9. COORDINATE WORK WITH THE CITY CONSULTANT. ANY WORK WHICH MAY DISRUPT OTHER MOUNT PLEASANT CEMETERY ACTIVITY SHALL BE DISCUSSED WITH THE CITY CONSULTANT PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR TO ENSURE CONTAMINANTS ARE NOT SPREAD TO ADJACENT AREAS OR PUBLIC SPACES.
10. PROVIDE EROSION AND SEDIMENTATION CONTROL AND RELATED PROTECTIVE MEASURES AT DEMOLITION AND NEW CONSTRUCTION TO ENSURE NO CONSTRUCTION DUST OR DEBRIS ENTERS OTHER MOUNT PLEASANT CEMETERY AREAS.
11. CONTRACTOR TO MAKE SURE TO CLEAN AND MAINTAIN THE PROJECT AREA DURING CONSTRUCTION TO ENSURE IT IS FREE FROM ACCUMULATION OF WASTE AND DEBRIS. CLEAN AND DISPOSE OF WASTE AND DEBRIS ON A DAILY BASIS. CONFIRM WITH CITY CONSULTANT THE APPROVED METHOD OF DEBRIS REMOVAL AND POSSIBLE LOCATION OF GARBAGE BINS.
12. CONTRACTOR SHALL MAKE GOOD TO AS NEW CONDITION AND PROTECT ALL EXISTING CONSTRUCTION AND FINISHES WHICH ARE TO REMAIN. REPAIR AND MAKE GOOD, TO AS NEW CONDITION ALL SURFACES EFFECTED BY DEMOLITION OR NEW CONSTRUCTION.
13. INSTALL ALL NEW MATERIALS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
14. WHERE SPECIFIC MATERIALS ARE NOT SPECIFIED, THE CONTRACTOR IS TO PROVIDE SAMPLES OF ALL NEW MATERIALS REQUIRED FOR CONSULTANT'S APPROVAL.
15. ALL MATERIAL TO BE AS SPECIFIED OR CONSULTANT REVIEWED ALTERNATES. PROPOSED ALTERNATES ARE TO BE INDICATED IN PRICING AND SUBMITTED TO CONSULTANT FOR REVIEW PRIOR TO TENDER CLOSING AND ORDERING.
16. CONTRACTOR SHALL COORDINATE FINAL INSPECTION DATE WITH CONSULTANT PRIOR TO USE OF NEW UNISTONE PAVING AND RAIN GARDEN TRAIL AREAS.
17. ALL DEFICIENCIES ARE TO BE COMPLETED BY THE CONTRACTOR WITHIN 30 DAYS AFTER SUBSTANTIAL COMPLETION.
18. COORDINATE WORK OF ALL TRADES AND SUBCONTRACTORS TO AVOID INTERFERENCE AND EXPEDITE PROGRESS. NOTIFY TRADES AND SUBCONTRACTORS OF READINESS FOR THEIR WORK. TO ALLOW ADEQUATE TIME FOR INSTALLATION WITHOUT DELAYING COMPLETION OF THE PROJECT.
19. EXECUTE ALL WORK TO MEET OR EXCEED THE REQUIREMENTS OF THE CURRENT VERSION OF THE CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS VOLUME 5: LANDSCAPING, ALL MUNICIPAL BYLAWS, CODES, ORDINANCES, GUIDELINES, AND THE AUTHORITIES HAVING JURISDICTION.

GENERAL NOTES CONTINUED:

SHOP DRAWINGS & SUBMITTALS:

- 1. THE CONTRACTOR TO SUBMIT ELECTRONIC SHOP DRAWINGS IN PDF FORMAT TO CONSULTANT FOR REVIEW PRIOR TO FABRICATION. PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT, GRAPHICS & NEW PRODUCTS REQUIRED TO COMPLETE THE WORK.
2. PROVIDE THREE SAMPLES OF ALL NEW MATERIALS & FINISHES (INCLUDING THOSE SPECIFIED TO MATCH EXISTING) TO THE CONSULTANT FOR REVIEW.
3. DELIVER SAMPLES AND OTHER SUBMITTALS TO THE CONSULTANT'S EDMONTON BUSINESS ADDRESS. SUBMIT WITH A REASONABLE PROMPTNESS AND IN AN ORDERLY SEQUENCE SO AS NOT TO CAUSE DELAY TO THE WORK.
4. DO NOT PROCEED WITH FABRICATION, MANUFACTURE, ORDERING OR CONSTRUCTION PRIOR TO REVIEW BY THE CONSULTANT. DO NOT PROCEED WITH THE WORK AFFECTED BY THE SUBMITTAL UNTIL REVIEW IS COMPLETE.
5. INDICATE MATERIALS, METHODS OF CONSTRUCTION AND ATTACHMENT OR ANCHORAGE, CONNECTIONS, EXPLANATORY NOTES AND OTHER INFORMATION NECESSARY FOR REVIEW.
6. THE WORK OF THIS PROJECT AS INDICATED ON THE DRAWING IS IN METRIC UNITS. ALL SHOP DRAWINGS TO BE SUBMITTED IN UNITS TO MATCH THE UNITS USED IN THE DRAWINGS.
7. ADJUSTMENTS MADE ON SHOP DRAWINGS ARE NOT INTENDED TO CHANGE THE CONTRACT PRICE. IF THE ADJUSTMENTS AFFECT THE CONTRACT PRICE, THE CONTRACTOR SHALL NOTIFY THE CONSULTANT IN WRITING, PRIOR TO PROCEEDING.
8. THE CONSULTANT RESERVES THE RIGHT TO REVISE THE SHOP DRAWINGS AS MAY BE REQUIRED.
9. ALL IMAGE AND/OR GRAPHICS PREPARATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONSULTANT'S DESIGNER IS NOT RESPONSIBLE FOR PROVIDING ORIGINAL DESIGN FILE.
10. FULL SIZE SAMPLE OF ALL IMAGES AND/OR GRAPHICS MUST BE SUBMITTED TO THE DESIGNER AND CLIENT FOR APPROVAL.
11. ALL IMAGES AND/OR GRAPHICS MUST BE APPROVED BY THE CLIENT PRIOR TO FABRICATION AND INSTALLATION.

RECORD DRAWINGS:

- 1. CONTRACTOR TO KEEP ONE SET RECORD DRAWINGS ON SITE AT ALL TIMES AND TO MARK UP ANY CHANGES IN THE WORK ON THESE DRAWINGS. AT SUBSTANTIAL COMPLETION SUBMIT ONE (1) PAPER COPY AND ONE (1) SCANNED IN USB OF ALL CONTENTS OF THE RECORD SET OF DRAWINGS IN PDF FORMAT TO THE CONSULTANT. PDF TO HAVE A TABLE OF CONTENTS AND TO BE BOOK MARKED.
2. TWO (2) PAPER COPIES, IN A 3-RING BINDER, WITH A TABLE OF CONTENTS, AND
B. TWO (2) SCANNED IN USB'S OF ALL CONTENTS OF THE BINDER IN PDF FORMAT.

OPERATION AND MAINTENANCE MANUALS:

- 1. AT SUBSTANTIAL PERFORMANCE OF THE WORK, CONTRACTOR TO SUBMIT TO THE CONSULTANT AN OPERATIONS AND MAINTENANCE MANUAL.
A. TWO (2) PAPER COPIES, IN A 3-RING BINDER, WITH A TABLE OF CONTENTS, AND
B. TWO (2) SCANNED IN USB'S OF ALL CONTENTS OF THE BINDER IN PDF FORMAT.

- 1. PDF'S TO HAVE A TABLE OF CONTENTS AND TO BE BOOK MARKED, CONTAINING THE FOLLOWING:
A. FOR ALL NEW MATERIALS AND EQUIPMENT, MANUFACTURER'S WRITTEN MAINTENANCE GUIDES, CARE & CLEANING INSTRUCTIONS, PARTS LISTS, A LIST OF ALL INSTALLED HARDWARE WITH A SCHEDULED, A LIST OF FINISH MATERIALS, AND A COPY OF ALL GUARANTEES AND WARRANTIES ISSUED.

OWNERS STOCK:

- 1. PROVIDE 2% EXTRA MATERIAL FOR MAINTENANCE PURPOSES, INCLUDING THE FOLLOWING:
A. ROMAN UNISTONE PAVERS
B. LINEAR EDGE PAVERS

PROGRESS MEETINGS:

- 1. THE CONTRACTOR SHALL SCHEDULE AND ADMINISTER PROJECT PROGRESS MEETINGS THROUGHOUT THE WORK ON A WEEKLY BASIS AS REQUIRED TO ENSURE EFFICIENT PROGRESS OF THE WORK. THE CONTRACTOR SHALL RECORD THE MINUTES AND DISTRIBUTE COPIES TO THE PARTICIPANTS, AFFECTED PARTIES NOT IN ATTENDANCE, AND THE OWNER.
2. CONTRACTOR TO ARRANGE PROVIDE PHYSICAL SPACE AND MAKE ARRANGEMENTS FOR PROGRESS MEETINGS.

CONSTRUCTION SCHEDULE:

- 1. WITHIN 6 DAYS OF AWARD OF CONTRACT, THE CONTRACTOR IS TO PROVIDE TO THE CONSULTANT A PROJECT SCHEDULE, SHOWING MILESTONES DATES FOR THE FOLLOWING:
A. SHOP DRAWING AND SAMPLES SUBMITTALS, DELIVERY SCHEDULE FOR KEY LANDSCAPE COMPONENTS OR FABRICATIONS ESSENTIAL TO THE PROGRESS OF THE WORK.

FINAL CLEAN:

- 1. CLEAN COMPLETELY, FREE OF DEBRIS, ALL SURFACES SOFT LANDSCAPE, LAKE, UNISTONE AREAS ADJACENT PERIMETER AREAS.

MOCK-UPS:

- 1. STAKE LOCATION OF ALL PLANT MATERIAL IN RAIN GARDEN AREAS FOR CONSULTANT APPROVAL.
2. GAIN ACCEPTANCE BY THE CONSULTANT, AT NO ADDITIONAL COST TO THE OWNER.
3. ACCEPTED SAMPLE INSTALLATIONS WILL BECOME THE STANDARD FOR THE PROJECT AND MAY BE INCORPORATED INTO THE WORK. ANY WORK WHICH DOES NOT MATCH THE ACCEPTED MOCK-UPS WILL BE REJECTED AND REPLACED TO MATCH ACCEPTED MOCK-UPS.

REMOVAL /DEMOLITION NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID.
2. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING REMOVAL /DEMOLITION STOCK FOR REUSABLE ITEMS PRIOR TO SUBMITTING A BID PRICE.
3. ALL ITEMS IN REMOVAL /DEMOLITION STOCK WHICH ARE NOT TO BE REINSTALLED ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER. THE OWNER RESERVES THE RIGHT TO RETAIN REMOVED /DEMOLISHED ITEMS OR REQUEST THE CONTRACTOR TO DISPOSE OF THESE ITEMS.
4. ALL ITEMS REMAINING TO APPEAR IN AS NEW CONDITION UPON COMPLETION OF CONSTRUCTION. MAKE GOOD ITEMS AS REQUIRED.
5. CONTRACTOR TO REVIEW WITH THE CONSULTANT, ALL ITEMS THAT ARE UNCOVERED DURING DEMOLITION, THAT WERE NOT APPARENT PRIOR TO DEMOLITION, BEFORE REMOVING.
6. CONTRACTOR TO ENSURE ALL LIFE-SAFETY AND EMERGENCY SYSTEMS ARE IN WORKING ORDER AND LEFT INTACT AT THE END OF EACH DAY, DURING DEMOLITION.
7. REMOVAL OF SURFACE CONDITIONS, WITHIN PROJECT BOUNDARY, TO SPECIFIED DEPTHS.
8. CAREFUL REMOVAL AND STORAGE OF EXISTING SIGNAGE AT BOTTOM OF SLOPE FOR FUTURE REINSTALLATION.
9. CONTRACTOR TO PROVIDE LUMP SUM PRICING FOR DEMOLITIONS WORKS.
10. REMOVAL OF COLUMBARIUM TO BE DONE BY OTHERS, CONTRACTOR TO NOT INCLUDE REMOVAL OF COLUMBARIUM IN LUMP SUM.

GENERAL NOTES CONTINUED:

EROSION CONTROL:

- 1. ALL GRADING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO MINIMIZE THE POTENTIAL FOR SOIL EROSION. SEDIMENT CONTROL PRACTICES MUST BE ESTABLISHED ON ALL DOWN-GRADIENT PERIMETERS BEFORE ANY UP-GRADIENT LAND DISTURBING ACTIVITIES BEGIN.
2. ALL EXPOSED AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN 14 DAYS AFTER CONSTRUCTION ACTIVITIES IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS (E.G. CLEAN AGGREGATE STOCKPILES, DEMOLITION UNISTONE STOCKPILES, SAND STOCKPILES) AND THE CONSTRUCTED BASE COMPONENTS OF UNISTONE PAVEMENT AREAS, AND SIMILAR SURFACES ARE EXEMPT FROM THIS REQUIREMENT.
3. INSPECT THE CONSTRUCTION SITE ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 15 MM IN 24 HOURS.
4. ALL EROSION CONTROL DEVICES MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NON-FUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
5. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED IN A MANNER AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
6. ALL SOILS TRACKED ONTO PAVEMENT SHALL BE REMOVED DAILY.
7. UPON COMPLETION OF THE PROJECT AND STABILIZATION OF ALL EXCAVATED /GRADED AREAS, ALL TEMPORARY EROSION CONTROL FACILITIES SHALL BE REMOVED FROM THE SITE.
8. CONTRACTOR TO PROVIDE LUMP SUM PRICING FOR EROSION AND SEDIMENT CONTROL.

EARTHWORKS:

- 1. KNOWN UNDERGROUND AND SURFACE UTILITY LINES AND BURIED OBJECTS ARE INDICATED ON DRAWINGS. NO GUARANTEE IS GIVEN OF COMPLETENESS OR ACCURACY. MAKE GOOD AND PAY FOR DAMAGE TO EXISTING UTILITY LINES RESULTING FROM WORK.
2. PREVENT DAMAGE TO ANY EXISTING ADJACENT TREES, LANDSCAPE, PAVEMENT, CONCRETE, GRANITE AND RELATED COLUMBARIA ELEMENTS. MAKE GOOD AND PAY FOR DAMAGE.
3. EXCAVATED SOIL: SHALL BE REMOVED FROM THE SITE. BASE OF ALL SUBGRADE AREAS SHALL BE SHAPED SUITABLY AND TAMPED FIRM.
4. CO-ORDINATE EXCAVATION OF RAIN GARDENS WITH CITY REPRESENTATIVE TO PROTECT ANY STRUCTURAL ROOTS OF ADJACENT TREES.
5. EXCAVATE SOFT AREAS DETECTED DURING COMPACTION OF THE SUBGRADE AND REPLACE WITH LOW PLASTIC COHESIVE SOIL AND COMPACT TO 95% PROCTOR DENSITY.
6. EXCAVATION TO BE PRICED IN CUBIC METERS.
7. TOPSOIL SUPPLY AND PLACEMENT TO BE PRICED AT A UNIT RATE IN CUBIC METERS.

SITE GRADING:

- 1. KNOWN UNDERGROUND AND SURFACE UTILITIES AND BURIED OBJECTS ARE INDICATED ON THE SITE PLAN. NO GUARANTEE TO COMPLETENESS OF THIS INFORMATION. ESTABLISH LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK.
2. PREVENT DAMAGE TO EXISTING ADJACENT CHARCOAL ROMAN-UNISTONE AREA AT CREST OF HILL, CURB, TREES, LANEWAY AND UTILITIES TO REMAIN. MAKE GOOD ANY DAMAGE.
3. ALL ELEVATIONS AROUND THE PERIMETER OF THE PROJECT AREA SHALL BE FIELD VERIFIED. IF ELEVATIONS VARY SIGNIFICANTLY, NOTIFY THE CONSULTANT FOR FURTHER INSTRUCTIONS.
4. GRADES SHOWN IN PAVED AREAS REPRESENT FINISH ELEVATION.
5. FILL MATERIAL: PROTECT EXCAVATED AREA AND SUCH APPROVED MATERIAL FROM CONTAMINATION.
6. ROUGH GRADE TO LEVELS, PROFILES, CONTOURS ALLOWING FOR SURFACE TREATMENT AS INDICATED.
7. ROUGH GRADE TO THE INDICATED DEPTHS BELOW FINISH GRADES.
8. SLOPE ROUGH GRADE AS INDICATED ON THE GRADING PLAN.
9. COMPACT FILLED AND DISTURBED AREAS TO STANDARD PROCTOR DENSITY TO ASTM D698-78 AS FOLLOWS:
a. 85% UNDER RAIN GARDEN LANDSCAPED AREAS
b. 95% UNDER RAIN GARDEN TRAIL
c. 98% UNDER NEW UNISTONE AREAS
10. GRANULAR PATHWAY TO BE PRICED AT A UNIT RATE IN SQUARE METERS.

RAIN GARDENS

- 1. EXCAVATE RAIN GARDENS TO DEPTH INDICATED ON DRAWINGS.
2. CO-ORDINATE WITH CITY REPRESENTATIVE TO PROTECT ANY STRUCTURAL ROOTS OF ADJACENT TREES.
3. PLACE 20mm DIAMETER ANGLULAR DRAIN ROCK AT 400mm DEPTH, COVER WITH NON-WOVEN GEOTEXTILE FABRIC. ENSURE NON-WOVEN GETEXTILE FABRIC OVERLAPS MINIMUM 400mm.
4. PLACE CITY OF EDMONTON TYPE 7 TOPSOIL AT DEPTH INDICATED ON DRAWINGS.
5. GRADE TOPSOIL TO A LOW POINT OF A MINIMUM OF 300mm FROM EDGE OF PATHWAY IN THE CENTER OF THE PLANTING BED AREA. THE INTENT IS TO CAPTURE RUNOFF ON RAINGARDENS.
6. INSTALL PLANT MATERIAL ACCORDING TO CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS FOR LANDSCAPING. REFER TO PLATING PLAN FOR PLANT MATERIAL AND LAYOUT.
7. GRAVEL RESERVOIR TO BE PRICED AT A UNIT RATE IN SQUARE METERS.
8. PLANTS TO BE PRICED AT A UNIT RATE PER SPECIES.

FINISH GRADING:

- 1. SCHEDULE PLACING OF RAIN GARDEN/BIORETENTION TOPSOIL AND FINISH GRADING TO PROFILE AS INDICATED ON DRAWINGS TO PERMIT PLANTING UNDER OPTIMUM CONDITIONS.
2. THE GRADING CONTRACTOR SHALL RETAIN A SOILS ENGINEER TO VERIFY ALL FILL MATERIAL IS IN ACCORDANCE WITH THE SPECIFICATIONS.
3. GRADES SHOWN IN PAVED AREAS REPRESENT FINISH ELEVATION.
4. CARRY OUT SITE GRADING OPERATIONS SYSTEMATICALLY TO ALLOW FOR NATURAL SETTLEMENT OF SOFT LANDSCAPE AREAS AND MEET COMPACTION REFERENCED IN SPECIFICATIONS FOR ALL HARDSCAPE AREAS.
5. GRADE SOIL IN SMOOTH TRANSITIONS, ELIMINATING UNEVEN AREAS, ENSURING POSITIVE DRAINAGE FROM CENTERLINE OF TRAIL SURFACE TO THE RAIN GARDEN /BIORETENTION AREAS OR OTHERWISE, AS INDICATED ON THE DRAWINGS.
6. USE FROST-FREE MATERIALS OVER FROST-FREE GROUND CONDITIONS.
7. MAINTAIN OPTIMUM MOISTURE CONTENTS TO ENABLE COMPACTED MATERIALS TO ATTAIN SPECIFIED DENSITY.

GENERAL NOTES CONTINUED:

- 8. APPLY TOPSOIL PROFILE AS SHOWN ON DRAWINGS TO THE MINIMUM DEPTHS INDICATED FOR RAIN GARDEN /BIORETENTION AREAS.
9. REHABILITATE FRINGE AREAS, AS NECESSARY, TO PRIOR CONSTRUCTION CONDITION.

CONCRETE

- 1. INSPECT ROUGH GRADES FOR SUITABILITY OF APPLICATION OF CONCRETE ENCASEMENT OF RAINFATER CHAMBER.
2. KEEP ANY TRAFFIC OFF NEWLY CAST-IN-PLACE CONCRETE UNTIL CONCRETE HAS CURED, ALLOWING 28 DAYS.
3. PROTECT ADJACENT SURFACES FROM DAMAGE. MAKE GOOD ANY DAMAGE AT NO EXTRA COST.
4. GRANULAR BASE: AS INDICATED ON DRAWINGS.
5. CEMENT: SULPHATE RESISTANT SYMBOL 50 PORTLAND TYPE.
6. FINE AND COURSE AGGREGATES: STANDARD CONCRETE TYPE, 20 MM MAXIMUM SIZE.
7. WELDED STEEL WIRE FABRIC: PLAIN TYPE, PLAIN FINISH.
8. TIE WIRE: MINIMUM 16-GAUGE ANNEALD TYPE.
9. FORMWORK: WELL MATCHED, TIGHT FITTING, AND ADEQUATELY STIFFENED TO SUPPORT WEIGHT OF CONCRETE WITHOUT DEFLECTION DETRIMENTAL TO TOLERANCES AND APPEARANCE OF CONCRETE.
10. CONCRETE CURING COMPOUND: CHLORINATED RUBBER TYPE, CLEAR COLOUR.
11. CONCRETE: MIX AND PROPORTION TO PRODUCE MINIMUM 25 MPA CONCRETE AT 28-DAY WITH A MAXIMUM SLUMP OF 75 MM PLUS OR MINUS 25 MM, AND 4 TO 7 PER CENT AIR ENTRAINMENTS.
12. CONTROL JOINT: TOOLED JOINT AT 1.5 M O.C. MAXIMUM.
BASALT SLAB BENCHES AND STEP-ASIDES
1. SLAB BENCHES TO BE CASCADES STONEWORKS BASLAT COLUMN BENCH WITH POLISHED TOP. 1500mm IN LENGTH.
2. CONTRACTOR TO CONSULT WITH OWNER FOR SELECTION OF EACH BASALT COLUMN.
3. DIMENSIONS VARY, AS INDICATED ON DRAWINGS.

PRODUCT SPECIFICATIONS

- 31 32 19.13 GEOGRID SOIL STABILIZATION
1.1 GENERAL
1.01 RELATED SECTIONS
* 32 13 00 RIGID PAVING
1.02 MEASUREMENT AND PAYMENT
MEASURE GEOGRID IN SQUARE METERS OF SURFACE COVERED BY MATERIAL. NO ALLOWANCE WILL BE MADE FOR SEAMS AND OVERLAP.
1.03 REFERENCES
ASTM INTERNATIONAL
* ASTM D 1248-[05], STANDARD SPECIFICATION FOR POLYETHYLENE PLASTICS EXTRUSION MATERIALS FOR WIRE AND CABLE
* ASTM D 4101-[10], STANDARD SPECIFICATION FOR POLYPROPYLENE INJECTION AND EXTRUSION MATERIALS.
* CONTENT IN POLYETHYLENE COMPOUNDS BY THE MUFFLE-FURNACE TECHNIQUE. ASTM D 5262-[07], STANDARD TEST METHOD FOR EVALUATING THE UNCONFINED TENSION CREEP BEHAVIOUR OF GEOSYNTHETICS.
* ASTM D 8637-[10], STANDARD TEST METHOD FOR DETERMINING TENSILE PROPERTIES OF GEOGRIDS BY THE SINGLE OR MULTI-RIB TENSILE METHOD
CANADA GREEN BUILDING COUNCIL (CGBC)
* LEED CANADA-NC VERSION 1.0 (2004), LEED (LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN); GREEN BUILDING RATING SYSTEM REFERENCE PACKAGE FOR NEW CONSTRUCTION AND MAJOR RENOVATIONS (INCLUDING ADDENDUM [2007]).
DREXEL UNIVERSITY - GEOSYNTHETIC RESEARCH INSTITUTE (GRI)
* GRI G52-[87]/(R2005)], GEOGRID JUNCTION STRENGTH
U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) / OFFICE OF WATER
* EPA 832/R-92-005, STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES: DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES.
1.04 SUBMITTALS
* SAMPLES:
SUBMIT SAMPLES PRIOR TO BEGINNING WORK. SAMPLE TO BE ONE 3M LENGTH FROM FULL ROLL WIDTH OF GEOGRID MATERIAL.
* CERTIFICATES:
SUBMIT COPIES OF MILL TEST DATA AND CERTIFICATE PRIOR TO START OF WORK.
1.05 DELIVERY AND STORAGE
* DELIVER, STORE AND HANDLE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
* DURING DELIVERY AND STORAGE, PROTECT GEOGRIDS FROM DIRECT SUNLIGHT, ULTRAVIOLET RAYS, EXCESSIVE HEAT, MUD, DIRT, DUST, DEBRIS AND RODENTS.
2 PRODUCTS
2.01 MATERIAL
* NILEX GEOGRID: TRIAX TX130S GEOGRID
3 EXECUTION
3.01 PREPARATION
TEMPORARY EROSION AND SEDIMENT CONTROL
* PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO CITY OF EDMONTON DESIGN STANDARDS.
* INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
* REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.
3.02 INSTALLATION
1. PLACE GEOGRID MATERIAL BY UNROLLING ONTO GRADED SURFACE IN MANNER AND LOCATIONS INDICATED AND RETAIN IN POSITION IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
2. PLACE GEOGRID ON SLOPING SURFACES IN ONE CONTINUOUS LENGTH FROM TOE OF SLOPE TO UPPER EXTENT OF GEOGRID.
3. OVERLAP EACH SUCCESSIVE STRIP OF GEOGRID 500MM OVER PREVIOUSLY LAID STRIP.
4. JOIN SUCCESSIVE STRIPS OF GEOGRID AS RECOMMENDED BY MANUFACTURER.
5. PROTECT GEOGRID FROM DISPLACEMENT, DAMAGE OR DETERIORATION BEFORE AND DURING PLACEMENT OF OVERLAY SOIL LAYERS.

GENERAL NOTES CONTINUED:

- 6. AFTER INSTALLATION, COVER WITH OVERLAY LAYER WITHIN 10 DAYS OF PLACEMENT.
7. REPLACE DAMAGED OR DETERIORATED GEOGRID TO APPROVAL OF CITY REPRESENTATIVE.
8. PLACE AND COMPACT SOIL LAYERS IN ACCORDANCE WITH SECTION 32 13 00.

3.03 CLEANING

- * PROGRESS CLEANING: CLEAN IN ACCORDANCE WITH SECTION [01 74 11 - CLEANING]. LEAVE WORK AREA CLEAN AT END OF EACH DAY.
* FINAL CLEANING: UPON COMPLETION REMOVE SURPLUS MATERIALS, RUBBISH, TOOLS AND EQUIPMENT.

3.04 PROTECTION

- * VEHICULAR TRAFFIC NOT PERMITTED DIRECTLY ON GEOGRID.

END OF SECTION

32 13 00 RIGID PAVING

1.1 GENERAL

- 1.01 RELATED SECTIONS
31 32 19.13 GEOGRID SOIL STABILIZATION
1.03 MEASUREMENT PROCEDURES:
* UNIT PAVING WILL BE MEASURED FOR PAYMENT IN SQUARE METERS.
1.04 SUBMITTALS
* UNIT PAVES TEST DATA
* SHOP DRAWINGS
* SUBMIT A SAMPLE PER TYPE OF UNIT PAVES
1.05 WASTE MANAGEMENT:
* SEPARATE WASTE MATERIALS FOR REUSE AND RECYCLING.
* REMOVE AND DISPOSE ALL PACKAGING MATERIALS AT APPROPRIATE RECYCLING FACILITIES.
* DIVERT ALL UNUSED CONCRETE MATERIAL FROM LANDFILL TO LOCAL QUARRY AS APPROVED BY CITY REPRESENTATIVE.
* DIVERT ALL UNUSED AGGREGATE MATERIALS MATERIAL FROM LANDFILL TO LOCAL QUARRY AS APPROVED BY CITY REPRESENTATIVE.
* DIVERT ALL UNUSED GEOTEXTILES FROM LANDFILL TO PLASTIC RECYCLING FACILITY.
* FOLD UP ALL METAL BANDING, FLATTEN AND PLACE IN DESIGNATED AREA FOR RECYCLING.

2 PRODUCTS

2.01 MATERIALS

- * UNIT PAVES: CONTRACTOR TO FIND A PAVES MATCHING EXISTING PAVERS ON SITE AND SUBMIT A SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT.
* CRUSHED GRAVEL BASE: AS INDICATED ON DRAWINGS.
* BEDDING SAND: AS INDICATED ON DRAWINGS.
* JOINT SAND: ROMPOX D2000-COMPONENT EPOXY RESIN JOINTING MORTAR
* EDGING: AS INDICATED ON DRAWINGS.
* LINEAR PAVES: AS INDICATED ON DRAWINGS.

3 EXECUTION

- 3.01 PROTECTION
* PROTECT EXITING TREES, GRAVE SITES, GRAVE MARKERS AND COLUMBARIA TO REMAIN. MAKE GOOD ANY DAMAGE.
3.02 SUBGRADE
* ENSURE THAT SUBGRADE IS FREE OF LARGE ROCKS AND ROOTS, COMPACT TO 95% SPD.
3.03 GEOGRID
* INSTALL GEOGRID AS PER MANUFACTURER'S SPECIFICATIONS.
3.04 GRAVEL BASE
* BASE MINIMUM THICKNESS OF 300MM
* UNIFORMLY SPREAD AND COMPACT GRAVEL IN 100MM LIFTS.
* COMPACT GRAVEL BASE TO 98% SPD.
* ENSURE CONFORMITY OF GRADES WITH FINISH SURFACE.
3.05 EDGING
* INSTALL EDGING TRUE TO GRADE, IN LOCATION INDICATED ON DRAWINGS.
* EDGING TO CONFORM WITH CITY OF EDMONTON LANDSCAPE DESIGN STANDARDS, MOST CURRENT EDITIONS.
3.06 BEDDING SAND
* PLACE AND SPREAD BEDDING SAND TO 30MM DEPTH
* DO NOT USE JOINT SAND FOR BEDDING SAND.
3.07 SURFACE COURSE
* UNIT PAVES TO MATCH EXISTING LAYOUT CONDITIONS ADJACENT TO PROJECT AREA
* FILL SPACES BETWEEN PAVERS BY SWEEPING IN JOINT SAND.
* PASS MECHANICAL PLATE VIBRATOR OVER UNIT PAVING TO ACHIEVE COMPACTION OF SAND IN JOINTS. ENSURE JOINTS ARE FULL AT COMPLETION OF COMPACTION.
* AT COMPLETION OF EACH WORK DAY, ENSURE WORK WITHIN 1M OF LAYING FACE IS LEFT FULLY COMPACTED WITH SAND FILLED JOINTS.
* SURFACE OF FINISHED PAVEMENT: FREE FROM DEPRESSIONS EXCEEDING 3MM AS MEASURED WITH A 3M STRAIGHT EDGE.
* SWEEP SURFACE CLEAN AND CHECK FOR CONFORMANCE TO DRAWINGS.

END OF SECTION

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PROJECT TITLE

MT PLEASANT UNISTONE & MEMORIAL PLAZA

MOUNT PLEASANT CEMETERY
5420 106 ST N.W.
EDMONTON, AB
T6H 2S9

ISSUE: 2

Table with 3 columns: No., Date, Description. Row 1: 2, 2020-03-19, ISSUED FOR TENDER. Row 2: 1, 2019-11-12, ISSUED FOR CLIENT REVIEW DESIGN.

SCALE: 1 : 100

DRAWN BY: MT/MG

CHECKED BY/QA: TK

PROJECT NO: CITYE-18-01

DRAWING CONTENTS

GENERAL NOTES

SHEET NUMBER

L-001

Material Type	Material Tag	Quantity	Location	Manufacturer	Finish	Pattern	Colour	Style	Size	Installation Pattern	Comments
Landscape Composition											
Geogrid	GG1		Rain Garden and Trail Substrate	Syntec, Tenax, Terrafix, or Approved Substitute		N/A	N/A	N/A	Roll		Contractor to refer to geotechnical report and to provide shop drawings for selected materials.
Landscape Geotextile	LG1		Rain Garden and Trail Substrate	Nilex 4551, Layfield LP6, or Approved Alternate		Overlapping, continuous.	N/A	Non-Woven Geotextile	Roll	Overlapping per manufacturer's installation instructions.	Prepare installation area by removing topsoil, weeds, vegetation, stones, or sharp objects that may puncture the geotextile, prior to installation.
New Fill	NF1		Rain Garden and Trail Substrate				N/A	N/A	N/A	Uncompacted or Compacted	
Landscape Elements											
Commemorative Memorial Pillow Monument	CP1	5	Rain Gardens			N/A		N/A	As drawn on detail sheets.	Install as shown on drawings.	Refer to details.
Small Stone	ST1	8	Rain Gardens		Natural sides, Flat, polished top	N/A	Natural, Grey Basalt	N/A	Approx. 350 x 600.	Install as shown on drawings.	Install as shown on site plan. Refer to details page for sub-grade preparation. Install minimum 1/3 of total depth below finished grade. Front edge of stone to meet front edges of adjacent stones, as shown on drawings. Install and settle all stone element
Medium Stone	ST2	5	Rain Gardens		Natural sides, Flat, polished top	N/A	Natural, Grey Basalt	N/A	Approx. 650 x 800	Install as shown on drawings.	Install as shown on site plan. Refer to details page for sub-grade preparation. Install minimum 1/3 of total depth below finished grade. Front edge of stone to meet front edges of adjacent stones, as shown on drawings. Install and settle all stone elements prior to installation of seed, sod, or landscape planting.
Stone Bench	ST3	3	Rain Gardens		Natural sides, Flat, polished top	N/A	Natural, Grey Basalt	N/A	Approx. 1650 x 465	Install as shown on drawings.	Install as shown on site plan. Refer to details page for sub-grade preparation. Install minimum 1/3 of total depth below finished grade. Front edge of stone to meet front edges of adjacent stones, as shown on drawings. Install and settle all stone element
Obelisk	ST4	2	New Columbaria Plaza		Natural sides and top	N/A	Natural, Grey Basalt	Per details sheets,	As per detail.	Install as shown on drawings.	Refer to detail.
Rain Garden Composition											
Growing Medium	GM1	± 75 sq. m. Refer to L-106 for soil depths.	Rain Gardens	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Provide soil adhering to the City of Edmonton Topsoil Type 7 - Low Impact Development requirements. Refer to Table 2 in City of Edmonton Design and Construction Standards Landscape (most recent version).
Gravel Reservoir	GR1	± 75 sq. m. Refer to L-104 - L-106 for sub-base locations and depths.	Rain Garden Substrate		Per manufacturer instructions.	N/A	N/A	N/A	N/A	20mm washed angular drain rock	Gravel drainage Reservoir at the base of rain gardens, and for use in French Drain system.
Weeping Tile	WT1		Rain Gardens		N/A		N/A	N/A	150mm Min.	Install as shown on drawings.	Refer to details page for installation and requirements.
Trail Composition											
Trench Drain	DR1	2	Ends of trail. Refer to Site Construction Plan	ACO Systems Ltd. or Approved Alternate	Grate Type 8800	"Wave Iron" grate pattern.	Iron.	K300 12" Drainlok Grate	300 W x 300 D minimum. Length as described on Site Construction plan.	Linear as shown.	Install per manufacturer instructions.
Compacted Gravel Crush Base	GC1		Trail Substrate			N/A	N/A		20mm minus road crush gravel	Min. 100mm depth of 20mm minus road crush gravel, compacted to 97% S.P.D.	
Compacted Gravel Crush Sub-Base	GC2		Trail Substrate			N/A	N/A		40mm minus road crush gravel	Min. 100mm depth of 40mm minus road crush gravel, compacted to 97% S.P.D.	
Landscape Edging	LE1		Refer to Drawings	Surefoot or Approved Alternate	N/A	Continuous	Black	Plastic Edging	Ensure edging is appropriately sized to restrain paver.	Continuous. Secure with min. 10" spiral landscape spikes.	Continuous landscape edging
Compact Granular Crush Pathway	TR1	± 32 sq. m.	Trail					N/A	6mm minus, min. 75mm depth.		Refer to drawing LA303 - "Granular Cross Section (Typ.)" in City of Edmonton Design and Construction Landscaping guide (most Recent edition)
Unistone Paving											
RomFox D2000-Component Epoxy Resin Jointing Mortar	JM1		New Unistone Paving areas	Romex		Per manufacturer instructions.	N/A	Charcoal grey	N/A	N/A	Joints between pavers
Unistone Paver	PA1	± 60 sq. m.	New Unistone Paving areas		Match Existing Unistone Pavers	Match Existing Unistone Paver "fan" pattern.	Match Existing Unistone Pavers	Match existing unistone pavers	Match existing paver dimensions	Install Pavers to Match Existing Unistone "Fan" Pattern.	Roman Paver in "fan" pattern, to match existing unistone pavers. Provide (3) three samples of Unistone paver, to be approved by consultant prior to installation.
Linear Paver	PA2		Project Boundaries		Linear Charcoal grey with no keyed edges	Continuous or Running Bond - See details.	Match Existing Unistone Pavers	N/A	min.438 x 70 x 100H	Install Pavers to Match Existing Unistone "Fan" Pattern.	

GENERAL DRAFTING SYMBOLS			
DRAWING TITLE			
ELEVATION MARKERS			
SECTION MARKER			
CALLOUT / DETAIL VIEW			
NORTH ARROW		LANDSCAPE ELEMENT TAG	
GRID HEAD		LEVEL HEAD	
REVISION TAG		KEYNOTE TAG	

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SCALE: 1 : 100

DRAWN BY: MG/MT

CHECKED BY/QA: TK

PROJECT NO: CITYE-18-01

DRAWING CONTENTS

SPECIFICATIONS + FINISHES

SHEET NUMBER

NOT FOR CONSTRUCTION

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DRAWING CONTENTS

**SITE DEMO, TREE
PROTECTION-
PROJECT SITE A**

SHEET NUMBER

L-101

SITE DEMOLITION GENERAL NOTES:

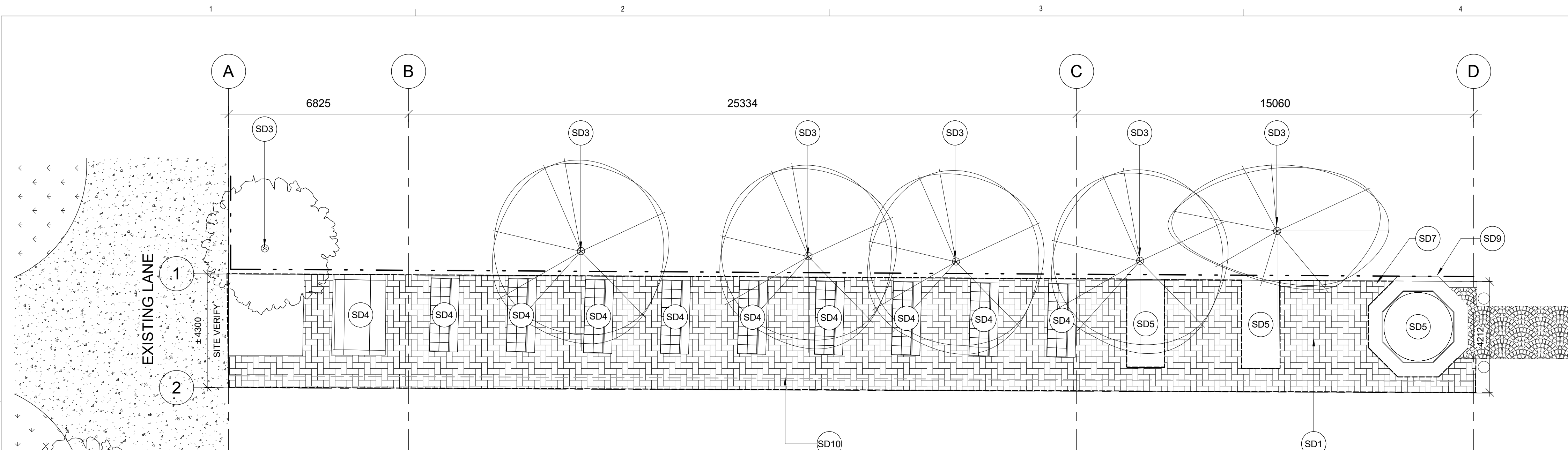
- SITE VERIFY ALL MEASUREMENTS PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION ACTIVITIES.
- CONTRACTOR TO PATCH & MAKE GOOD TO RECEIVE NEW FINISHES ANY EXISTING PATHWAY OR LANDSCAPE ELEMENTS AFFECTED AFTER COMPLETION OF DEMOLITION WORKS.
- PROTECT ALL TREES AND EXISTING COLUMBARIA TO REMAIN IN PLACE DURING DEMOLITION ACTIVITIES.
- PROTECT TREES AND TREE ROOTS FROM DAMAGE DURING EXCAVATION ACTIVITIES.

SITE DEMOLITION LEGEND

- DEMOLISH EXISTING HERRINGBONE UNISTONE PAVING
- EXISTING 'FAN' PATTERN UNISTONE PAVING TO REMAIN
- LINE OF TREE PROTECTION HOARDING
- LINE OF EXCAVATION FOR WALKWAY
- EXISTING IRRIGATION LINE

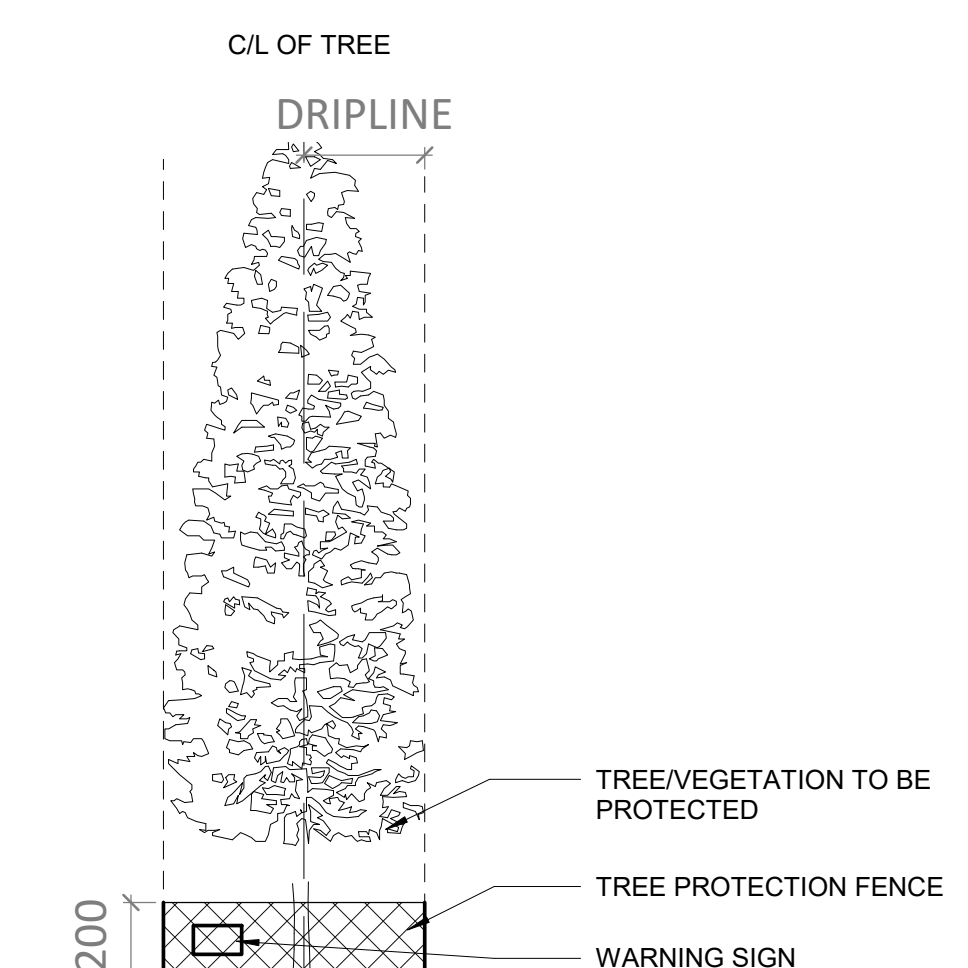
SITE DEMOLITION KEYNOTES

- SD1 DEMOLISH EXISTING HERRINGBONE PATTERN UNISTONE PAVING.
- SD2 CAREFULLY EXPOSE EXISTING TREE ROOTS AND IRRIGATION LINE USING HAND TOOLS PRIOR TO MACHINE EXCAVATION, TO AVOID DAMAGE TO EXISTING TREES AND IRRIGATION LINE.
- SD3 PROTECT EXISTING TREES FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. REFER TO TREE PROTECTION DETAIL.
- SD4 REMOVAL OF COLUMBARIUM BY OTHERS.
- SD5 PROTECT EXISTING COLUMBARIUM DURING DEMOLITION, EXCAVATION, AND CONSTRUCTION ACTIVITIES.
- SD6 DEMOLISH EXISTING RAILING AND CURB.
- SD7 EXCAVATE TO END OF EXISTING UNISTONE PATHWAY AND LANDSCAPE EDGING.
- SD8 EXCAVATE EXISTING LANDSCAPED AREA.
- SD9 LINE OF TREE PROTECTION HOARDING. DO NOT DISTURB SURROUNDING GRAVES OR EXISTING LANDSCAPE ELEMENTS ADJACENT TO PROJECT AREA.
- SD10 APPROXIMATE LOCATION OF EXISTING IRRIGATION LINE. CONTRACTOR TO FIELD VERIFY.



**1 Site Demolition + Tree
Protection Plan - Project Site A**

1 : 100



3 Tree Protection Detail

Typical 1 : 100

GENERAL DRAFTING SYMBOLS

DRAWING TITLE	1 View Name ADDITIONAL TEXT View Scale		
ELEVATION MARKERS			
SECTION MARKER			
CALLOUT / DETAIL VIEW			
NORTH ARROW		LANDSCAPE ELEMENT TAG	
GRID HEAD		LEVEL HEAD	
REVISION TAG		KEYNOTE TAG	

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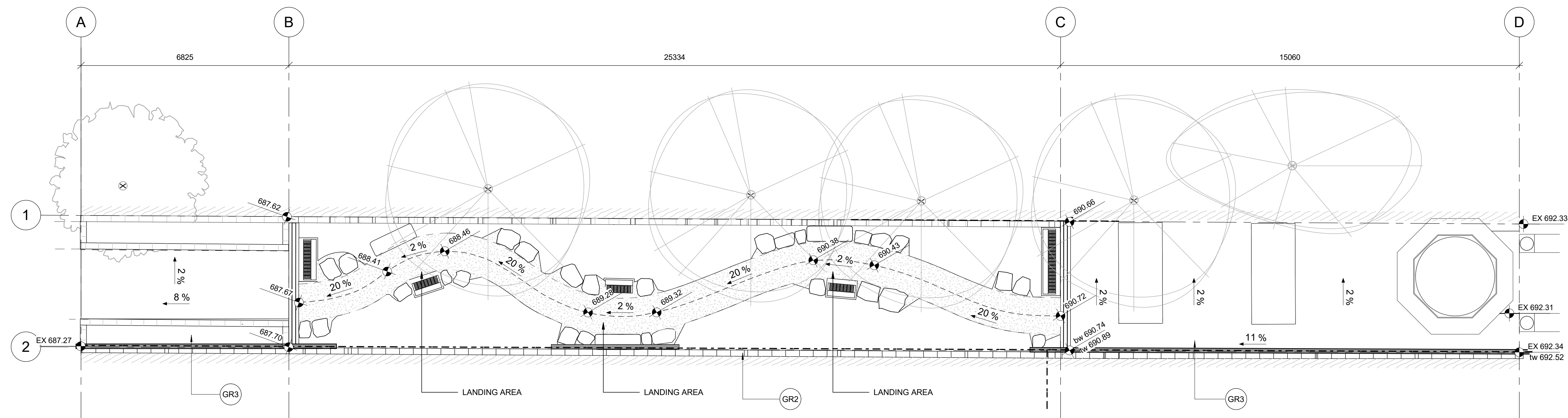
PROJECT NO: CITYE-18-01

DRAWING CONTENTS

**GRADING &
LAYOUT PLANS -
PROJECT SITE A**

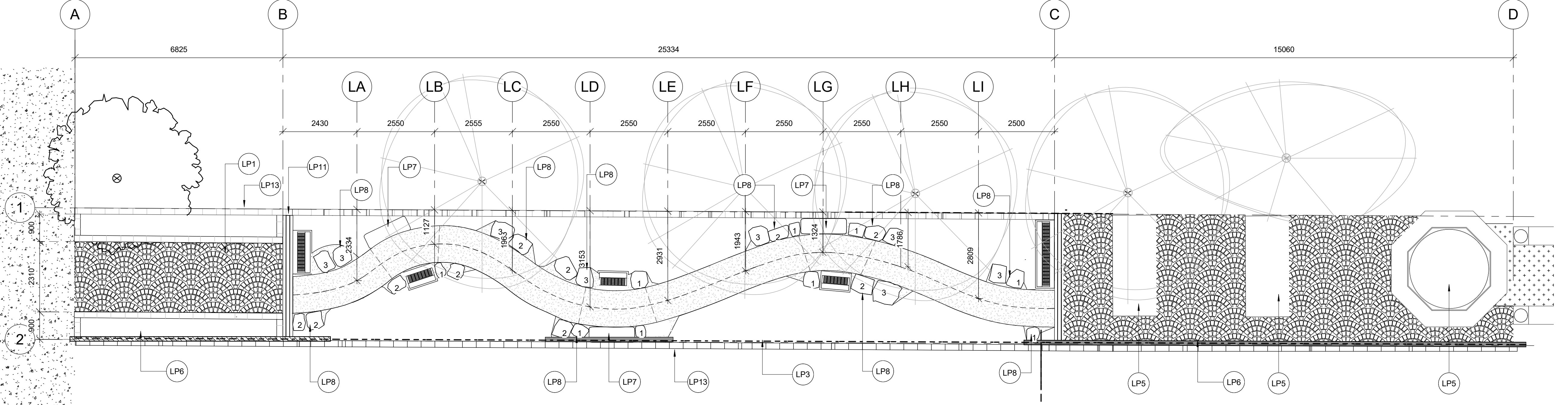
SHEET NUMBER

L-102



1 Grading Plan

1 : 75



2 Layout Plan - Project Site A

1 : 75

GRADING PLAN & LAYOUT PLAN LEGEND

- EXISTING CONTOURS (m) IN INCREMENTS OF 0.25m
- CENTRELINE OF PATH
- SLOPE ARROW
- PROPOSED SPOT ELEVATION (m)
- LAYOUT GRID LINE
- 75mm DEPTH GRANULAR PATHWAY BUILT AS PER CITY OF EDMONTON LANDSCAPE STANDARD. ADD ROMEX ROM POX GRIT AND GRAVEL STABILIZER AS PER MANUFACTURERS SPECIFICATIONS.
- EXISTING UNISTONE PAVING. MATCH PATTERN AND BLEND NEW PAVING INTO EXISTING PATTERN
- PROVIDE NEW UNISTONE PAVING. MATCH EXISTING UNISTONE PAVING PATTERN AND MATERIALS.
- FEATHER GRADE TO MEET EXISTING GRADE. ENSURE EXISTING GRAVES ARE NOT DISTURBED. CONTRACTOR TO FIELD VERIFY GRADES WITH CLIENT REPRESENTATIVE PRIOR TO CONSTRUCTION.
- 150mm PVC IRRIGATION SLEEVE. CONTRACTOR TO INSTALL BELOW UNISTONE AREAS, AS SHOWN IN LAYOUT PLAN

- CASCADE STONEWORKS BASALT COLUMN BENCH, 1500mm LENGTH.
- BASALT COLUMN 1: 675 - 700mm HEIGHT, 300-500mm DEPTH 300-500mm WIDTH
- BASALT COLUMN 2: 700 - 850mm HEIGHT, 300-500mm DEPTH 300-500mm WIDTH
- BASALT COLUMN 3: 850 - 1000mm HEIGHT, 300-500mm DEPTH 300-500mm WIDTH
- MEMORIAL MARKER - 49 NAMEPLATE, REFER TO SHEET L105
- MEMORIAL MARKER - 77 NAMEPLATE, REFER TO SHEET L105
- MEMORIAL MARKER - 126 NAMEPLATE, REFER TO SHEET L105
- MARKER TOTAL: 350

GENERAL NOTES:

1. SITE VERIFY ALL MEASUREMENTS PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION ACTIVITIES.
2. CONTRACTOR TO PATCH & MAKE GOOD TO RECEIVE NEW FINISHES ANY EXISTING PATHWAY OR LANDSCAPE ELEMENTS AFFECTED AFTER COMPLETION OF DEMOLITION WORKS.
3. PROTECT ALL TREES AND EXISTING COLUMBARIA TO REMAIN IN PLACE DURING CONSTRUCTION ACTIVITIES.

LAYOUT PLAN KEYNOTES

- LP1 NEW UNISTONE AREA: +/- 19.5 sq. m.
- LP3 RELOCATED IRRIGATION LINE
- LP4 GRANULAR MIX, AS PER CITY OF EDMONTON STANDARDS, WITH ROM POX GRIT AND GRAVEL STABILIZER AS PERMANUFACTURERS SPECIFICATIONS
- LP5 COLUMBARIUM TO REMAIN. PROTECT DURING DEMOLITION, EXCAVATION, AND CONSTRUCTION ACTIVITIES.
- LP6 CONTRACTOR TO PROVIDE 150mm PVC SLEEVE TO IRRIGATION LINE FOR AREAS BELOW UNISTONE.
- LP7 CASCADE STONEWORKS: BASALT BENCH WITH POLISHED TOP, +/- 1500mm LENGTH, 508mm DEPTH, 457mm HEIGHT
- LP8 BASALT COLUMN, +/- 675-1000mm HEIGHT, 300-650mm WIDTH, 300-500mm DEPTH. IDENTIFIED BY EITHER 1, 2, OR 3.
- LP10 MEMORIAL MARKER - 77 NAME PLATE, REFER TO SHEET L105
- LP11 TRENCH DRAIN, ACO K100 KLASSIKDRAIN (OR APPROVED ALTERNATE), REFER TO SHEET L106
- LP13 LANDSCAPE EDGE, REFER TO SHEET L105
- LP14

GRADING PLAN KEYNOTES

- GR1 TRANSITION UNISTONE PAVING TO MEET EXISTING ASPHALT AT PROJECT BOUNDARY. ENSURE FLUSH CONNECTION WITH ASPHALT ROAD.
- GR2 RELOCATION OF EXISTING IRRIGATION LINE. CONTRACTOR TO FIELD VERIFY, CITY OF EDMONTON INDICATES THAT THE LINBE SUPPLIES WATER TO THE HOSE BIBS FOR BOTH CUSTOMERS. IT RUNS EAST WEST IN THE MIDDLE OF THE UNISTONE PATH, APPROX 10-14 INCHES DEEP AND BRANCHES NORTH IN FRONT OF FILTON COLUMBARIUM AND BRANCHES SOUTH IN FROM OF PLEASANT VIEW COLUMBARIUM.
- GR3 CONTRACTOR TO PROVIDE 150mm PVC SLEEVE TO IRRIGATION LINE FOR AREAS BELOW UNISTONE.

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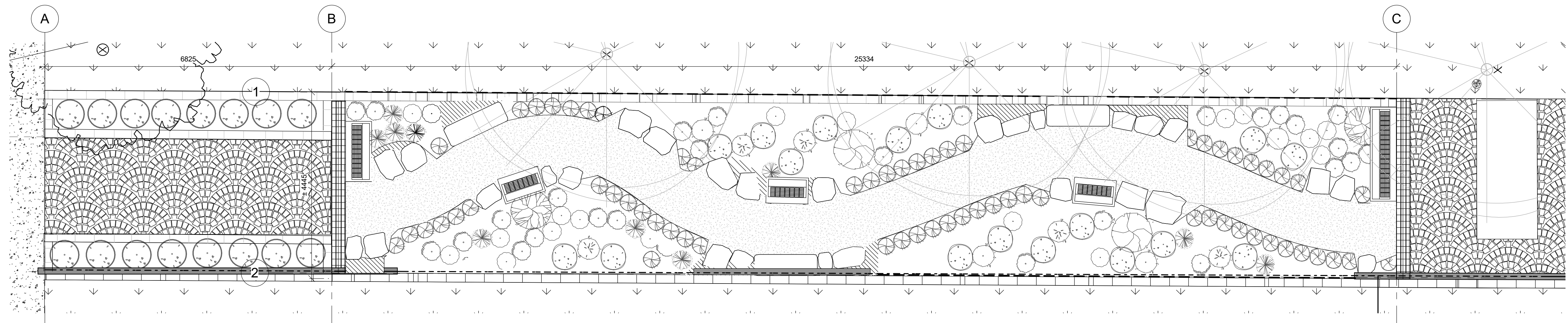
PROJECT NO: CITYE-18-01

DRAWING CONTENTS

**PLANTING PLAN
& SITE DETAILS -
PROJECT SITE A**

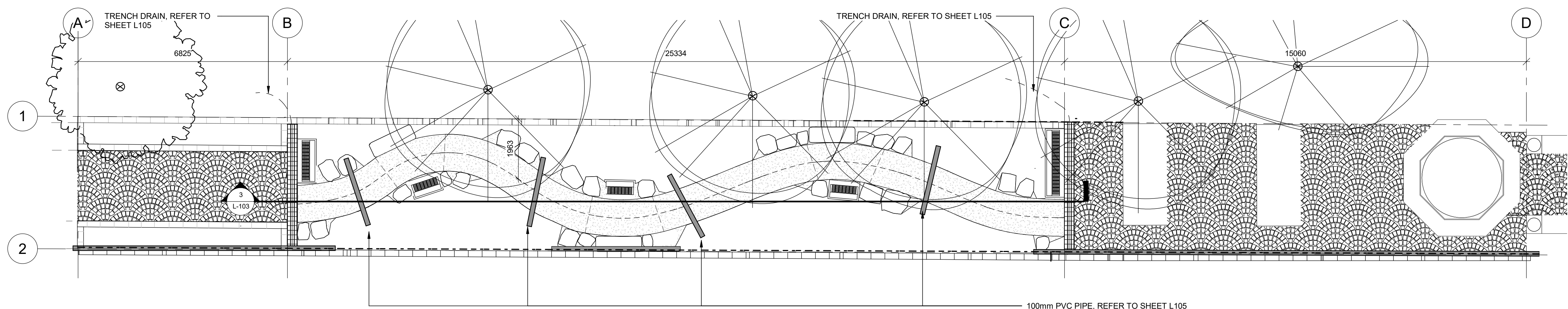
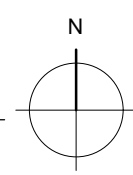
SHEET NUMBER

L-103



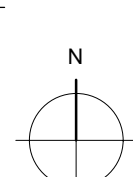
1 Site Planting Plan

1 : 50



2 Storm Water Plan

1 : 75

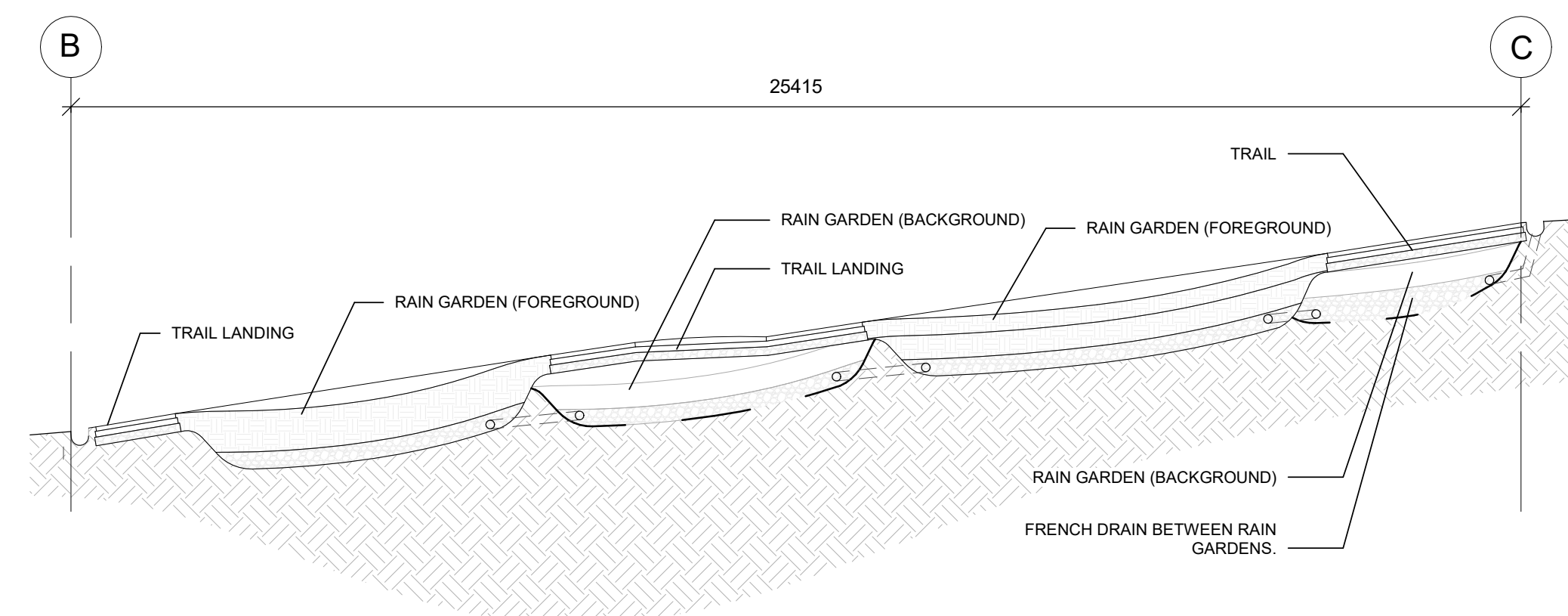


LANDSCAPING PLAN LEGEND

- PROVIDE BEARBERRY AND SCOTCH MOSS. REFER TO PLANTING SCHEDULE ABOVE.
- EXISTING UNISTONE PAVING.
- NEW UNISTONE PAVING. REFER TO SITE CONSTRUCTION PLAN.
- TRENCH DRAIN. REFER TO L105
- MEMORIAL MARKER - 49 NAMEPLATE, REFER TO SHEET L106
- MEMORIAL MARKER - 77 NAMEPLATE, REFER TO SHEET L106
- LANDSCAPE EDGE, REFER TO SHEET L106
- RELOCATED IRRIGATION LINE

SITE PLANTING GENERAL NOTES:

- SITE VERIFY ALL MEASUREMENTS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR TO PATCH & MAKE GOOD TO RECEIVE NEW FINISHES ANY EXISTING PATHWAY OR LANDSCAPE ELEMENTS AFFECTED AFTER COMPLETION OF DEMOLITION WORKS.
- PROTECT ALL TREES AND EXISTING COLUMBARIA REMAINING IN PLACE.
- PROTECT TREES AND TREE ROOTS FROM DAMAGE DURING EXCAVATION, DEMOLITION, CONSTRUCTION, AND PLANTING ACTIVITIES.
- ALL PLANTING BEDS TO INCLUDE PINE BARK CHUNK MULCH.



3 Storm Water Management Section

1 : 100

PLANTING SCHEDULE

Image	Symbol	Common Name	Scientific Name	Size + Spacing	Spread (mm)	Quantity	Image	Symbol	Common Name	Scientific Name	Size + Spacing	Spread (mm)	Quantity
		Autumn Fire Stonecrop	Sedum spectabile 'Autumn Fire'		460	63			Mock Orange	Philadelphus 'Galatad'		1220	16
		Bearberry	Arctostaphylos uva-ursi		480	2			Night Beacon D'oro	Hemerocallis 'Night Beacon'		100	18
		Blue Ivory Hosta	Hosta 'Blue Ivory'			5			Queen Josephine Hosta	Hosta 'Queen Josephine'		712	5
		Dwarf Korean Lilac	Syringa meyeri 'Palibin' (tree form)		1220	2			Scotch Moss	Sagina subulata 'Aurea'		300	1
		Grape Expectations Coral Bells	Huechera 'Grape Expectations'		610	17			Snowdrop Anemone	Anemone sylvestris		500	9
		Limelight Hydrangea	Hydrangea paniculata 'Limelight' (Tree form)		914	2			Stella D'Oro Daylily	Hemerocallis 'Stella D'Oro'		450	28

NOT FOR CONSTRUCTION

CONSULTANTS

Mechanical:

Electrical:

SEALS

NOTES

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PROJECT TITLE
MT PLEASANT
UNISTONE &
MEMORIAL PLAZA

MOUNT PLEASANT CEMETERY
5420 106 ST N.W.
EDMONTON, AB
T6H 2S9

ISSUE: 2

No.	Date	Description
2	2020-03-19	ISSUED FOR TENDER
1	2019-11-12	ISSUED FOR CLIENT REVIEW DESIGN

SCALE: As indicated

DRAWN BY: MM

CHECKED BY/QA: JH

PROJECT NO: CITYE-18-05

DRAWING CONTENTS

SITE DEMOLITION
- PROJECT SITE B

SHEET NUMBER

L-104

SITE DEMOLITION GENERAL NOTES:

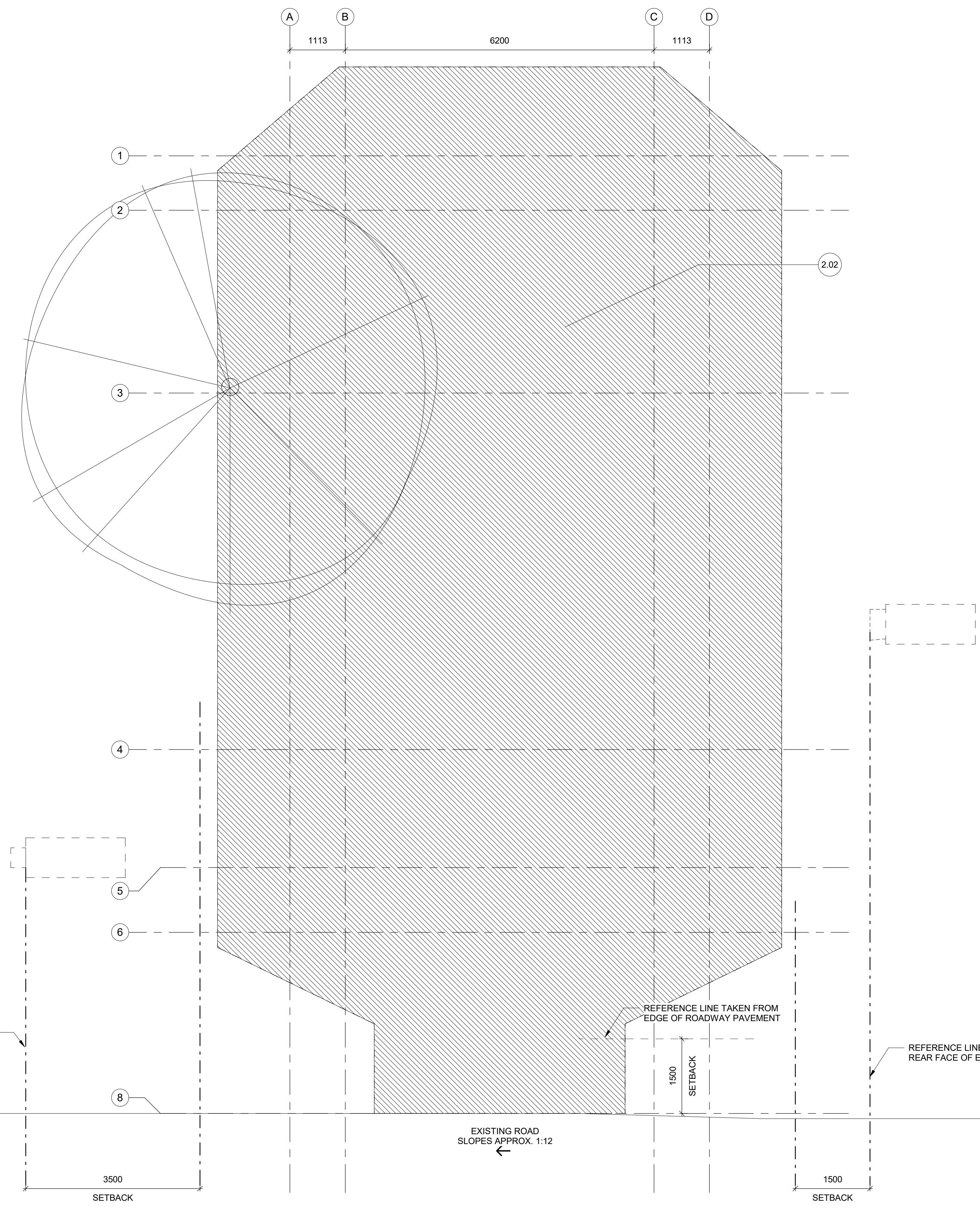
- SITE VERIFY ALL MEASUREMENTS PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION ACTIVITIES.
- CONTRACTOR TO MAKE GOOD ANY EXISTING PATHWAY OR LANDSCAPE ELEMENTS AFFECTED AFTER COMPLETION OF CONSTRUCTION.
- PROTECT ALL TREES AND EXISTING COLUMBARIA TO REMAIN IN PLACE DURING DEMOLITION ACTIVITIES.
- PROTECT TREES AND TREE ROOTS FROM DAMAGE DURING EXCAVATION ACTIVITIES.

SITE DEMOLITION LEGEND

- APPROXIMATE AREA OF EXCAVATION
- LINE OF TREE PROTECTION HOARDING
- LINE OF EXCAVATION FOR WALKWAY
- EXISTING IRRIGATION LINE

DEMOLITION PLAN KEYNOTES

- EXISTING CRABAPPLE TREE TO BE REMOVED BY CITY FORESTRY DEPT.
- APPROX. AREA OF EXCAVATION. SEE ALSO STRUCTURAL PLANS. ENSURE EXCAVATIONS REMAIN WITHIN THE SETBACK LINES.



REFERENCE LINE TAKEN FROM REAR FACE OF EXISTING MEMORIAL

REFERENCE LINE TAKEN FROM EDGE OF ROADWAY PAVEMENT

REFERENCE LINE TAKEN FROM REAR FACE OF EXISTING MEMORIAL

EXISTING ROAD SLOPES APPROX. 1:12

1 SITE DEMOLITION & LAYOUT - PROJECT SITE B
L-104

1 : 50

GENERAL DRAFTING SYMBOLS

DRAWING TITLE	1 View Name ADDITIONAL TEXT View Scale		
ELEVATION MARKERS			
SECTION MARKER			
CALLOUT / DETAIL VIEW			
NORTH ARROW		LANDSCAPE ELEMENT TAG	
GRID HEAD		LEVEL HEAD	Name Elevation
REVISION TAG		KEYNOTE TAG	

PLAN KEYNOTES

- 1.01 RELOCATED MEMORIAL NICHE
- 1.02 RELOCATED DUAL MEMORIAL NICHE
- 1.03 NEW CONCRETE SIDEWALK SLAB, REFER TO STRUCTURAL
- 1.04 LINE OF FOUNDATION SLAB, BELOW GRADE, REFER TO STRUCTURAL
- 1.05 PROVIDE HANDRAIL AS DETAILED.
- 1.06 INSTALL GARDEN BENCH PROVIDED BY OWNER, ON CONCRETE SIDEWALK SLAB
- 1.07 ENTRY MARKERS, SEE DETAIL
- 1.08 PROPOSED SWALE, SLOPED TO DRAIN AWAY FROM PLAZA. SEE PLANTING PLAN
- 1.09 PROVIDE GROWING MEDIUM AND LANDSCAPE MATERIALS BETWEEN NICHE.

CONSULTANTS

Mechanical:

Electrical:

SEALS

NOT FOR CONSTRUCTION

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MOUNT PLEASANT CEMETERY
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T6H 2S9

ISSUE: 2

No.	Date	Description
2	2020-03-19	ISSUED FOR TENDER
1	2019-11-12	ISSUED FOR CLIENT REVIEW DESIGN

SCALE: 1 : 50

DRAWN BY: MM

CHECKED BY/QA: JH

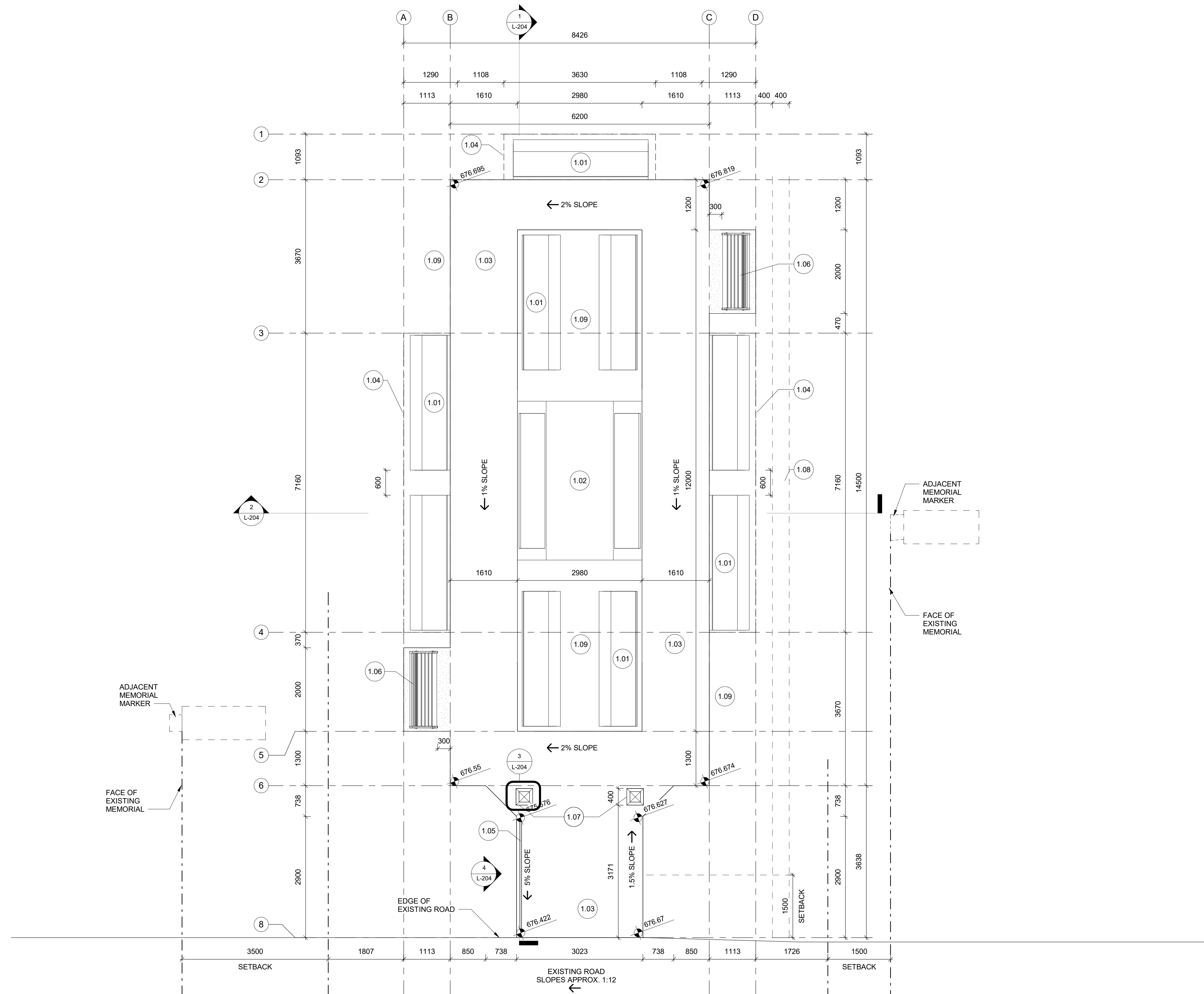
PROJECT NO: CITYE-18-05

DRAWING CONTENTS

GRADING &
LAYOUT PLAN -
PROJECT SITE B

SHEET NUMBER

L-105



1 GRADING & LAYOUT PLAN
L-105 1 : 50

CONSULTANTS

Mechanical:

Electrical:

SEALS

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SCALE: As indicated

DRAWN BY: MM

CHECKED BY/QA: JH

PROJECT NO: CITYE-18-05

DRAWING CONTENTS

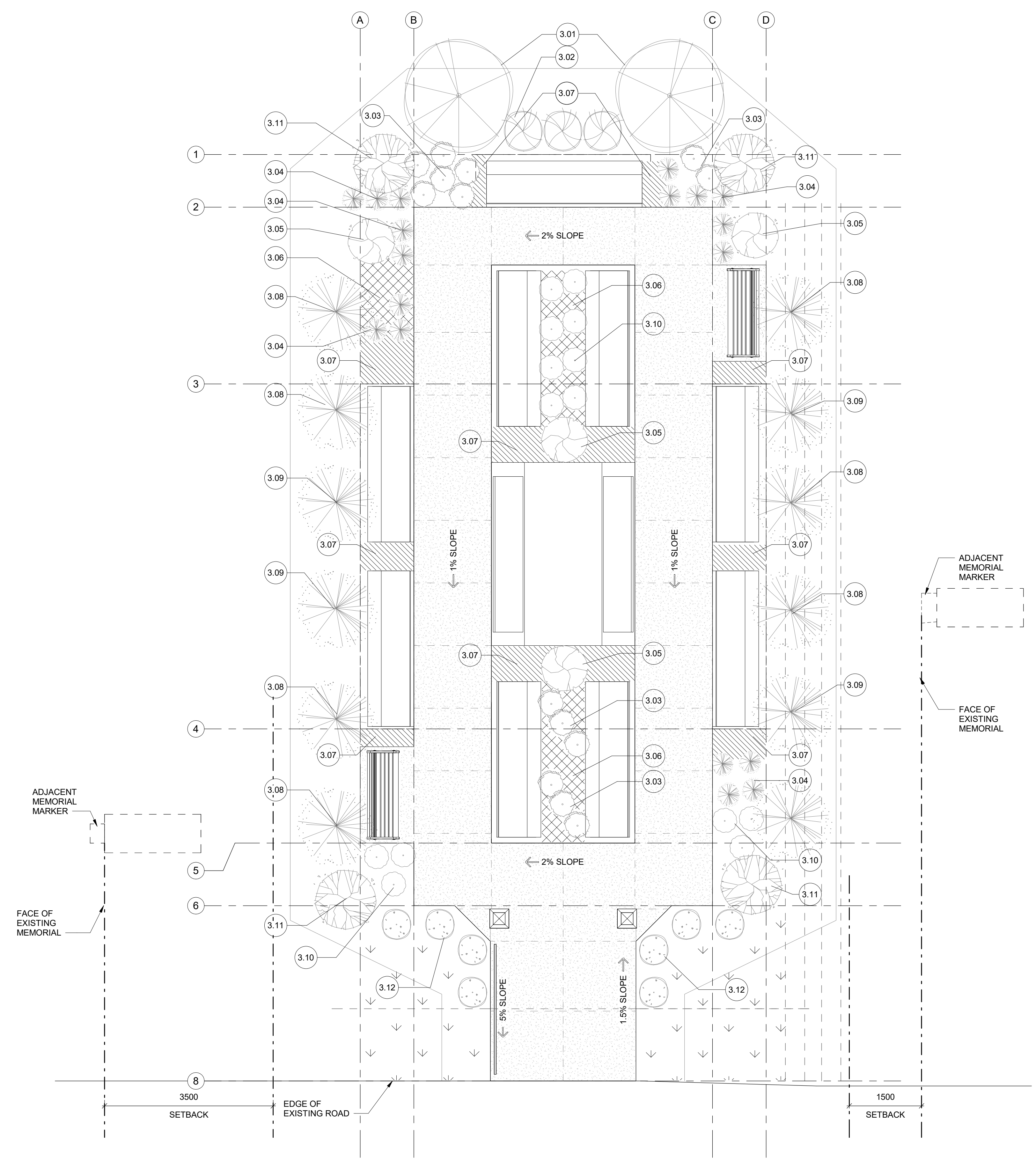
PLANTING PLAN -
PROJECT SITE B

SHEET NUMBER

L-106

PLANTING KEYNOTES

- 3.02 AUTUMN FIRE STONECROP
- 3.03 STELLA D'ORO DAYLILY
- 3.04 PRAIRIE SAGE
- 3.05 KELSEY DWARF DOGWOOD
- 3.06 WILD FLAX
- 3.07 BEARBERRY
- 3.08 PRINCE OF WALES JUNIPER
- 3.09 DOUBLE FROSTED JUNIPER
- 3.10 NIGHT BEACON D'ORO
- 3.11 DWARF KOREAN LILAC
- 3.12 MOCK ORANGE



1 PLANTING PLAN
L-106 1:50

PLANTING SCHEDULE

IMAGE	SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE + SPACING	SPREAD (mm)	QUANTITY	IMAGE	SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE + SPACING	SPREAD (mm)	QUANTITY
		Purple Spire Columnar Crabapple	Malus 'Jefspire'	7.9 m	2440	2			Bearberry	Arctostaphylos uva-ursi	150	480	Per landscape plan
		Autumn Fire Stonecrop	Sedum Spectabile 'Autumn Fire'	600	460	3			Prince of Wales Juniper	Juniperus Horizontalis 'Prince of Wales'	180	2135	8
		Stella D'Oro Daylily	Hemerocallis 'Stella de Oro'		450	8			Daub's Frosted Juniper	Juniperus x Media 'Daub's Frosted'	480	1530	4
		Prairie Sage	Artemisia Ludoviciana	300	300-500	18			Night Beacon D'Oro	Hemerocallis 'Night Beacon'		100	14
		Kelsey Dwarf Dogwood	Cornus Sericea 'Kelsey'	914	914	4			Dwarf Korean Lilac	Syringa meyeri 'Palibin' (tree form)		1220	4
		Wild Flax	Linum Lewisii	250-500	250	Per landscape plan			Mock Orange	Philadelphus 'Galadad'		1220	8

CONSULTANTS

SEALS

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PROJECT TITLE

**MT PLEASANT
UNISTONE &
MEMORIAL PLAZA**

MOUNT PLEASANT CEMETERY
5420 106 ST N.W.
EDMONTON, AB
T6H 2S9

ISSUE: 2

No.	Date	Description
2	2020-03-19	ISSUED FOR TENDER
1	2019-11-12	ISSUED FOR CLIENT REVIEW DESIGN

SCALE: 1 : 20

DRAWN BY: MG/MT

CHECKED BY/QA: TK

PROJECT NO: CITYE-18-01


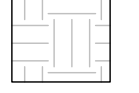
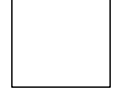
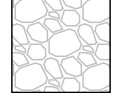





DRAWING CONTENTS

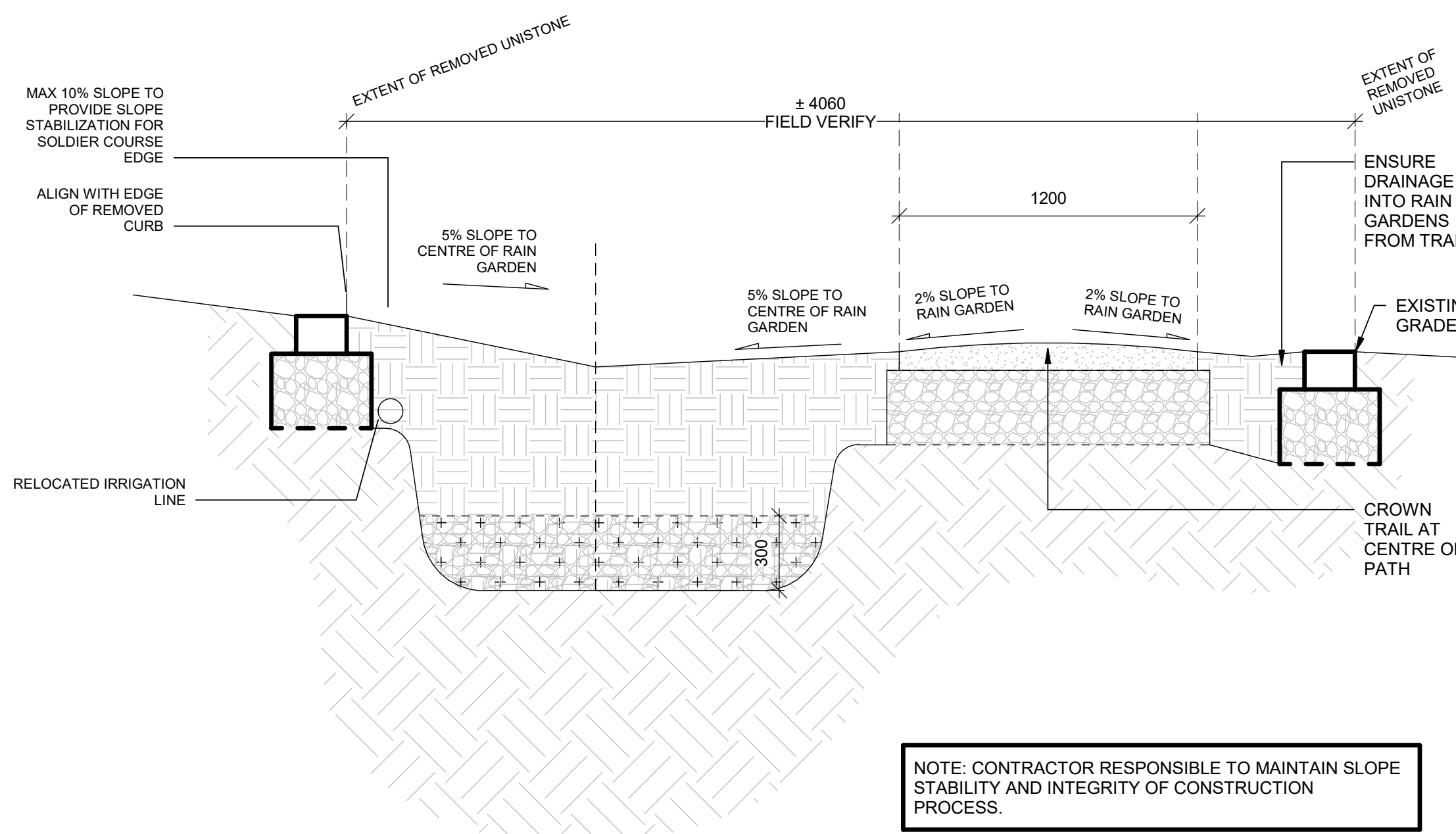
**DETAILS -
PROJECT SITE A**

SHEET NUMBER

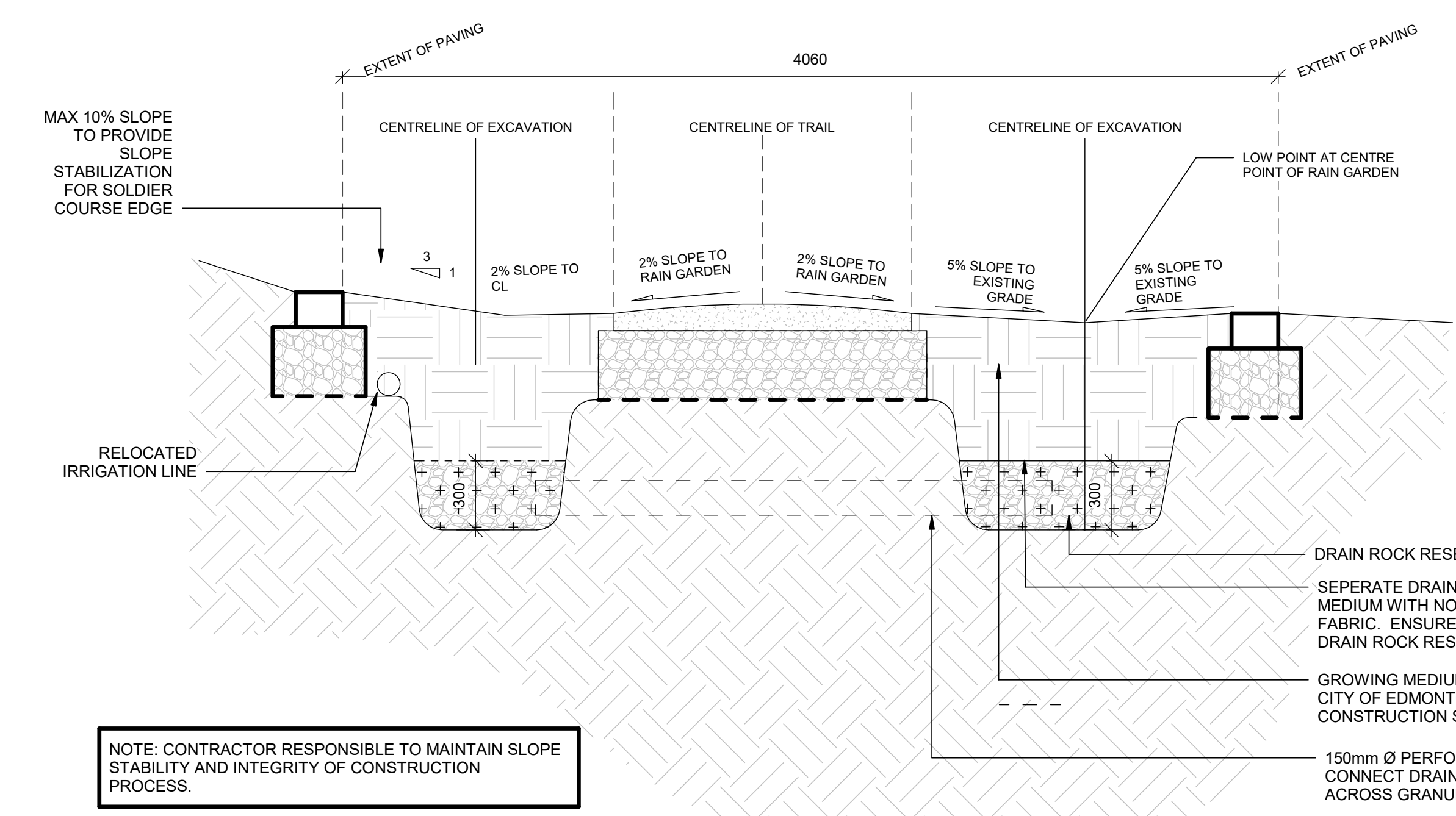
L-201

DETAIL LEGEND

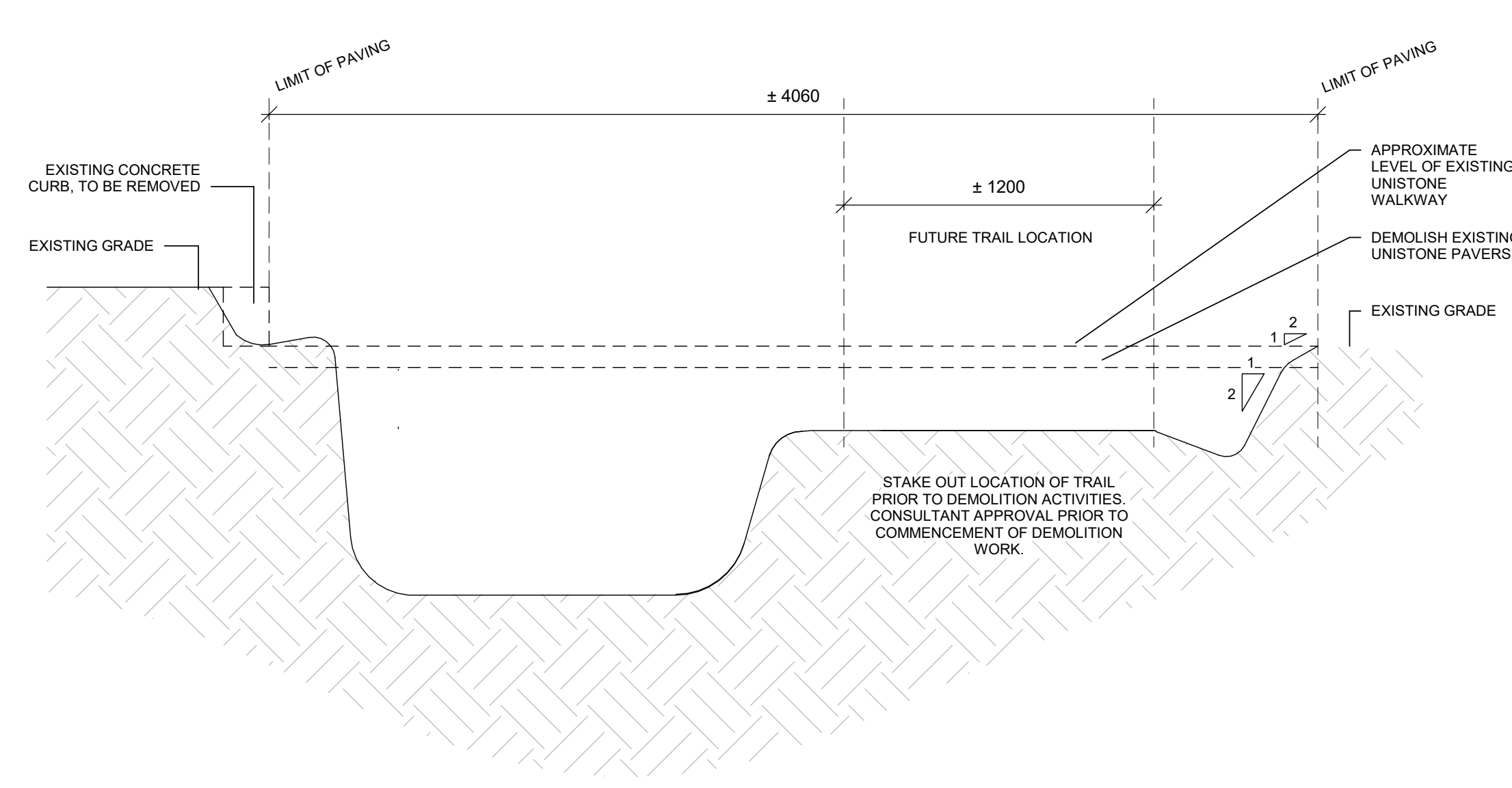
-  PA1 PROVIDE UNISTONE PAVING IN "FAN" PATTERN TO MATCH EXISTING
-  GM1 PROVIDE GROWING MEDIUM
-  EXISTING SOIL
-  GC1 PROVIDE GRAVEL BASE
-  GR1 PROVIDE WASHED DRAIN ROCK
-  NF1 PROVIDE NEW TOPSOIL FILL
-  TR1 PROVIDE GRANULAR CRUSH PATH
-  GG1 PROVIDE GEOGRID SOIL STABILIZATION / EROSION CONTROL
-  GG1 PROVIDE GEOTEXTILE



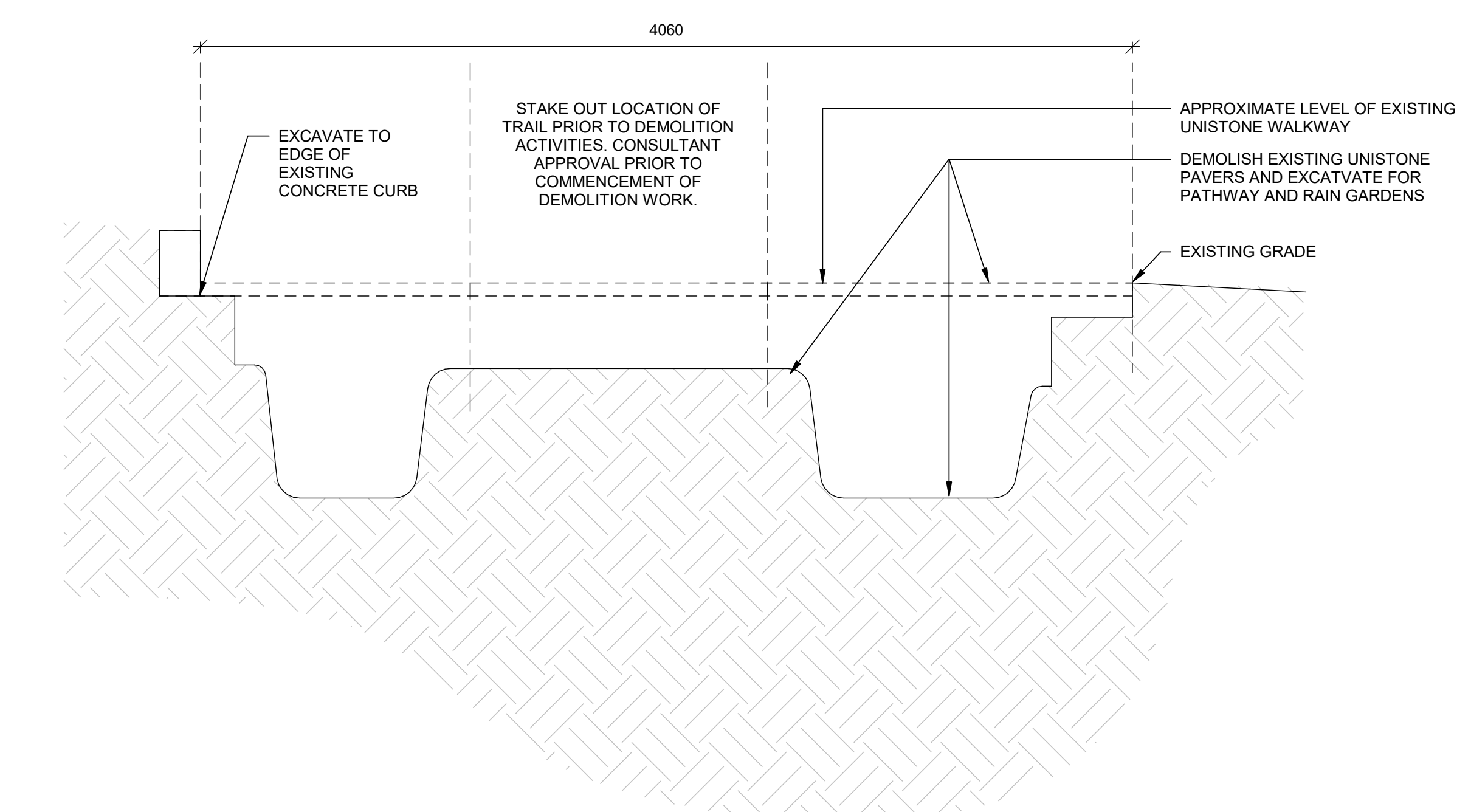
2 Construction Cross-section - Mid-slope
1 : 20



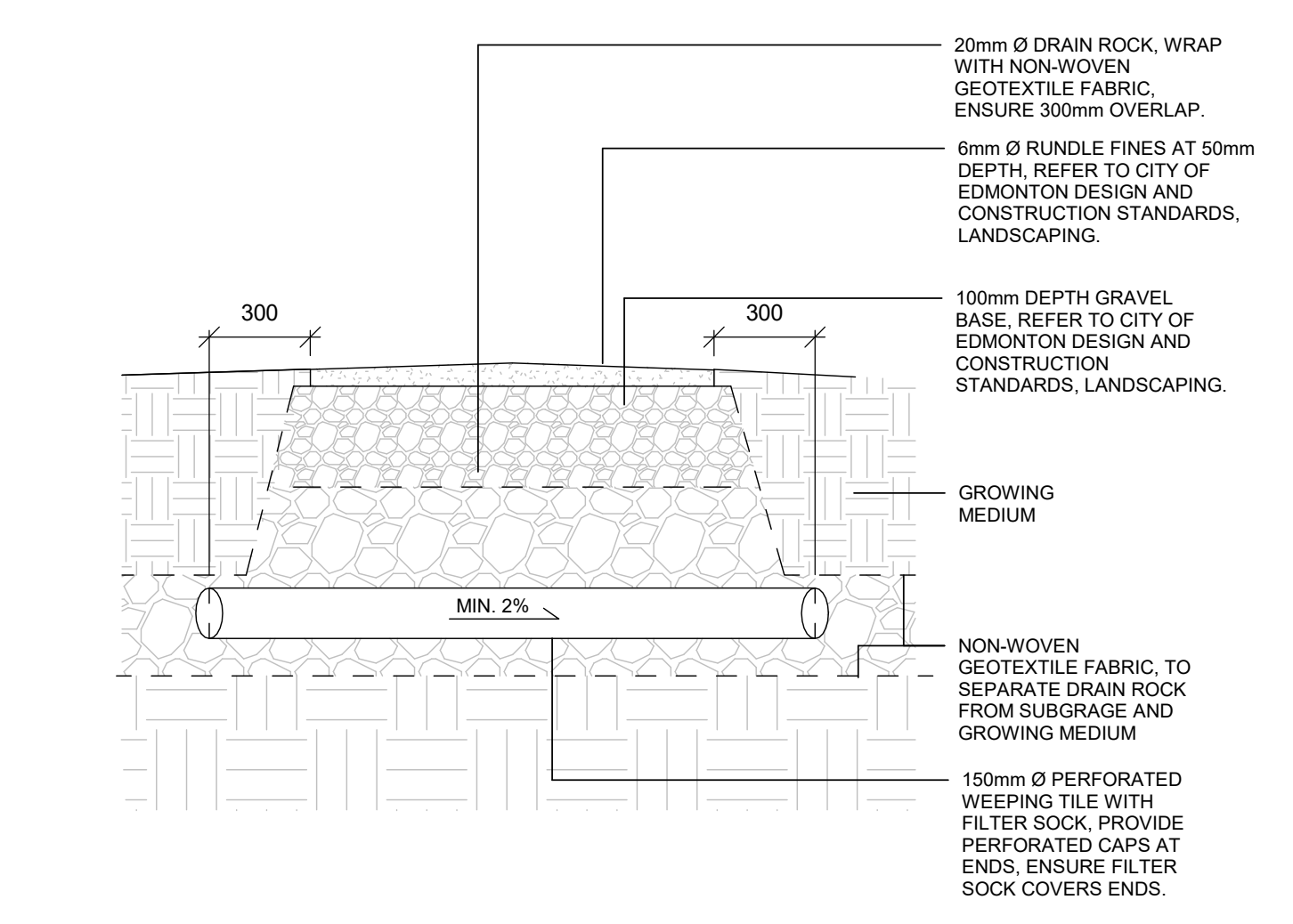
4 Construction Cross-Section
1 : 20



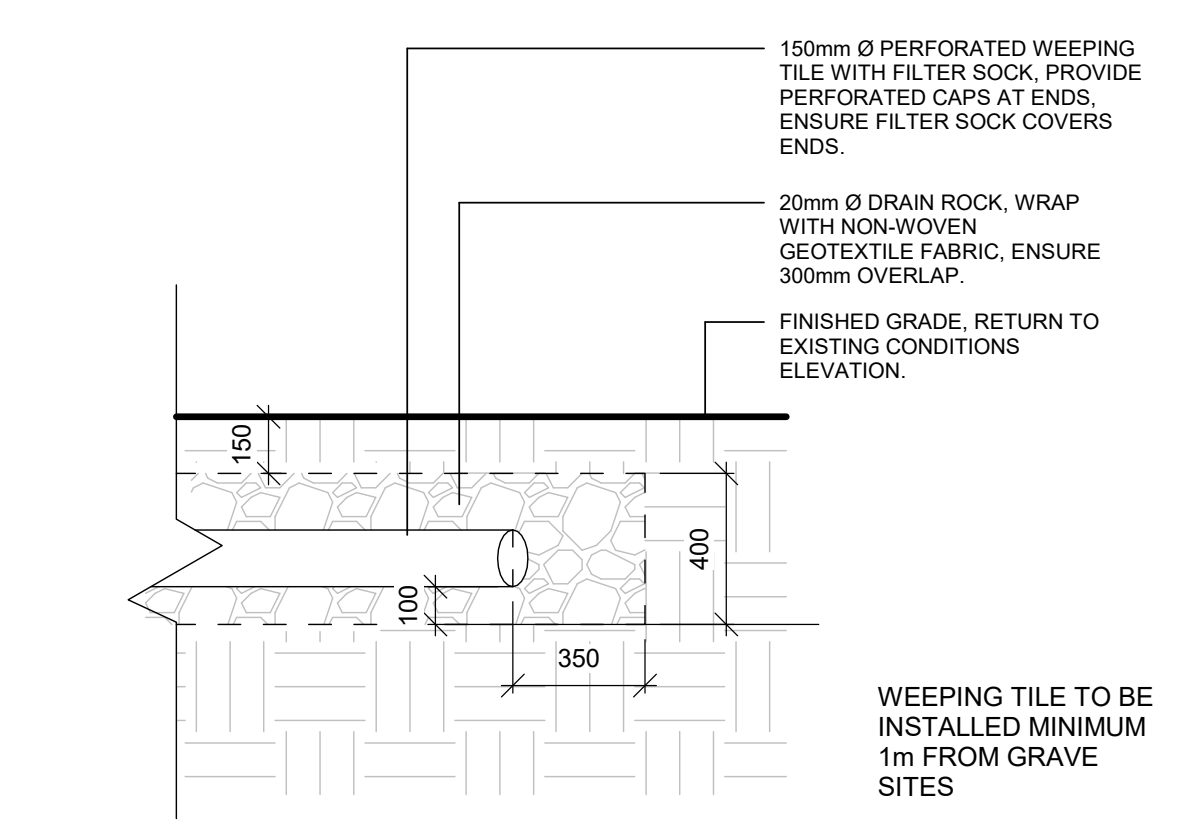
1 Demolition and Excavation Cross-section - Mid-slope
1 : 20



3 Demolition and Excavation Cross-Section
1 : 20



5 Weeping tile below granular pathway
1 : 20



6 Weeping tile at outlet
1 : 20

CONSULTANTS

SEALS

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PROJECT TITLE

**MT PLEASANT
UNISTONE &
MEMORIAL PLAZA**

MOUNT PLEASANT CEMETERY
5420 106 ST N.W.
EDMONTON, AB
T6H 2S9

ISSUE: 2

No.	Date	Description
2	2020-03-19	ISSUED FOR TENDER
1	2019-11-12	ISSUED FOR CLIENT REVIEW DESIGN

SCALE: 1 : 20

DRAWN BY: Author

CHECKED BY/QA:

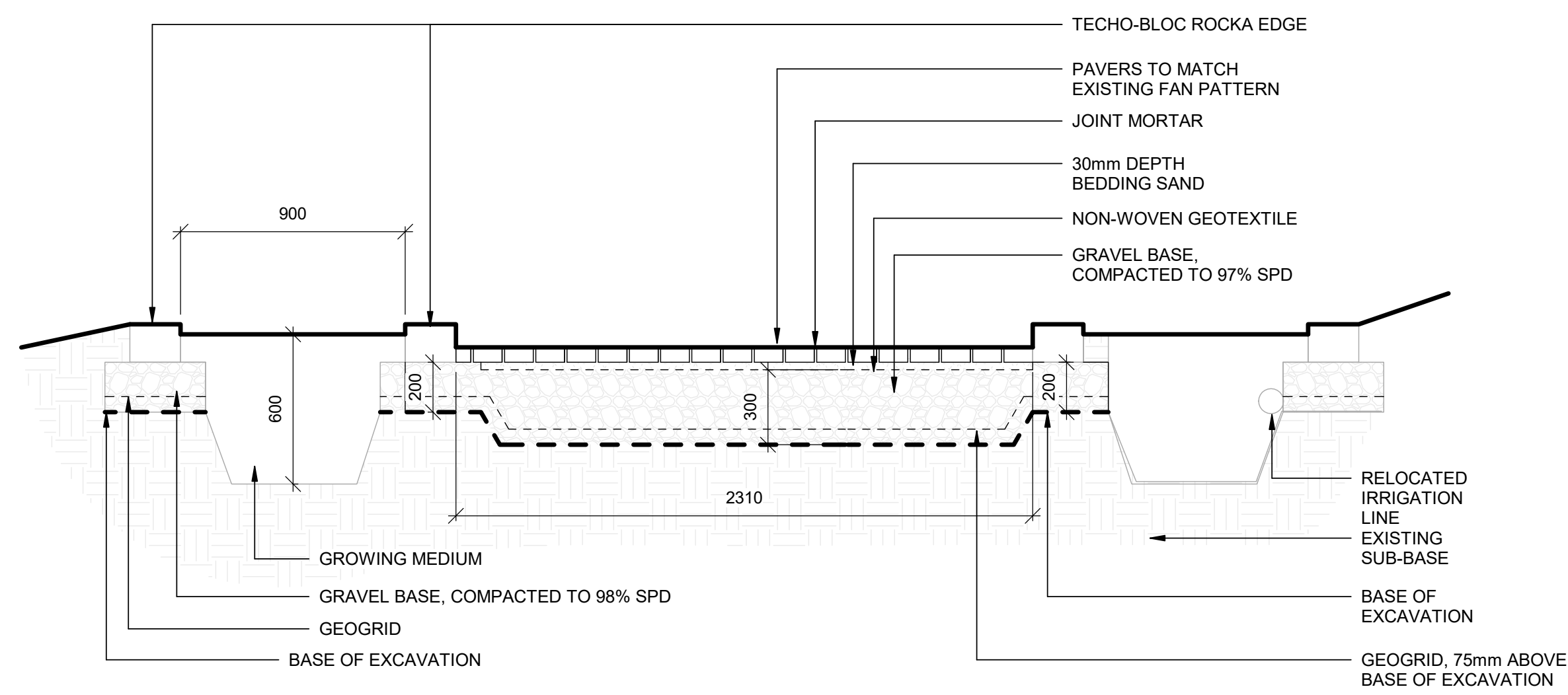
PROJECT NO: CITYE-18-01

DRAWING CONTENTS

**DETAILS -
PROJECT SITE A**

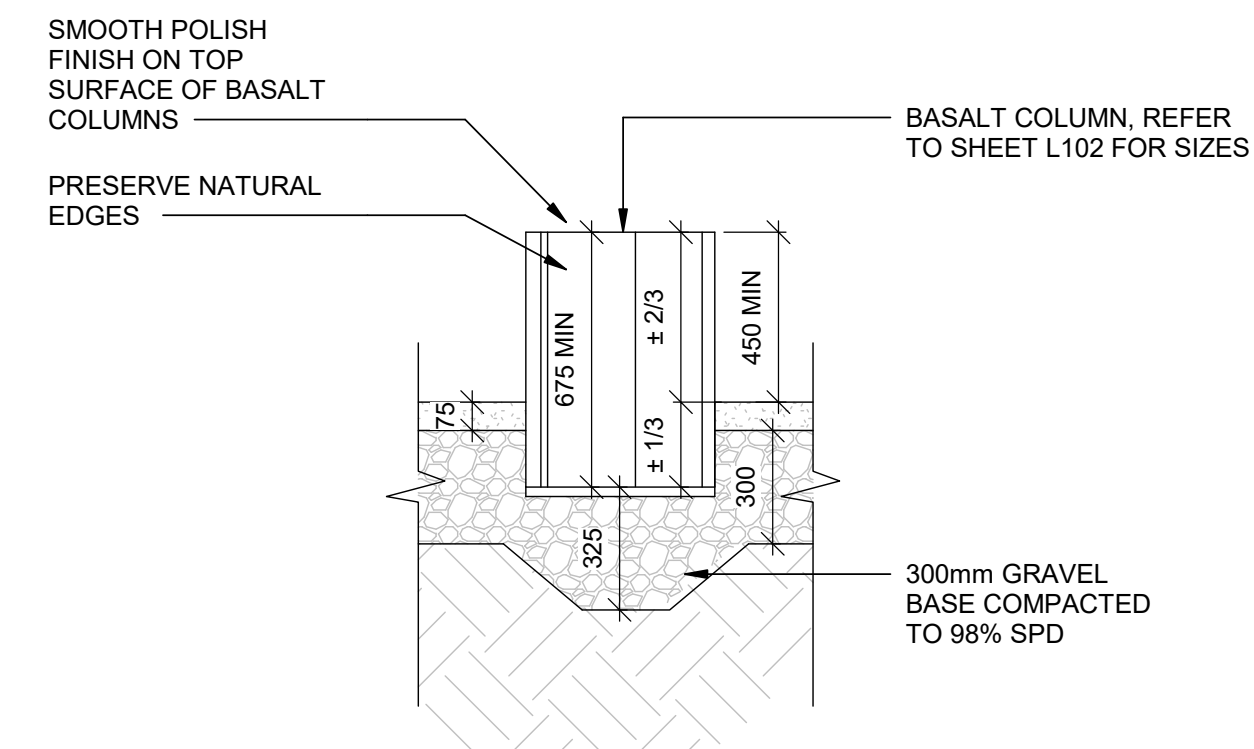
SHEET NUMBER

L-203



1 Base Garden Section

1 : 20



NOTE:
BASALT COLUMN INSTALLATION TO BE STABLE AND PLUMB.

**2 Basalt Column
Installation**

TYPICAL

1 : 20

PLAN KEYNOTES

- 1.01 RELOCATED MEMORIAL NICHE
- 1.02 RELOCATED DUAL MEMORIAL NICHE
- 1.03 NEW CONCRETE SIDEWALK SLAB. REFER TO STRUCTURAL
- 1.04 LINE OF FOUNDATION SLAB, BELOW GRADE. REFER TO STRUCTURAL
- 1.05 PROVIDE HANDRAIL AS DETAILED.
- 1.06 INSTALL GARDEN BENCH PROVIDED BY OWNER, ON CONCRETE SIDEWALK SLAB
- 1.07 ENTRY MARKERS. SEE DETAIL
- 1.08 PROPOSED SWALE, SLOPED TO DRAIN AWAY FROM PLAZA. SEE PLANTING PLAN
- 1.09 PROVIDE GROWING MEDIUM AND LANDSCAPE MATERIALS BETWEEN NICHE.

CONSULTANTS

Mechanical:

Electrical:

SEALS

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UNISTONE &
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MOUNT PLEASANT CEMETERY
5420 106 ST N.W.
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T6H 2S9

ISSUE: 2

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SCALE: As indicated

DRAWN BY: MM

CHECKED BY/QA: JH

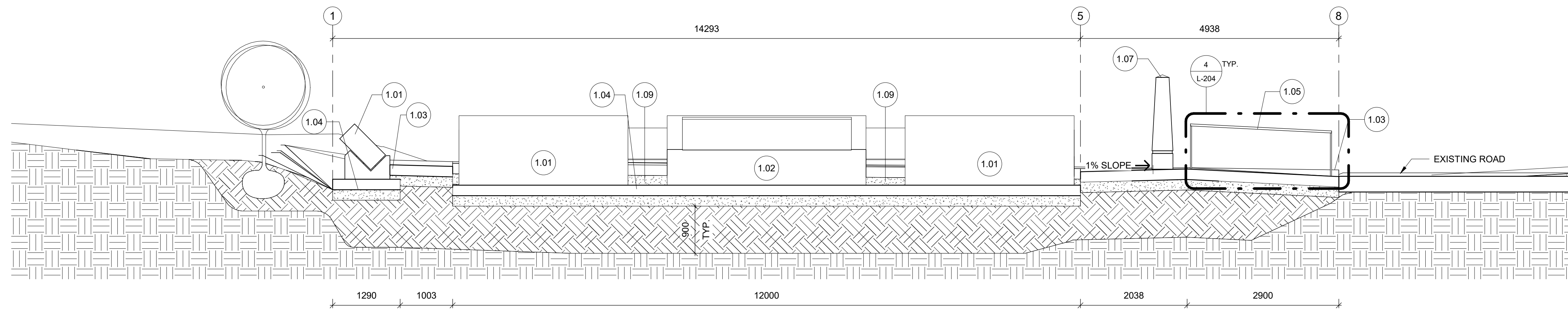
PROJECT NO: CITYE-18-05

DRAWING CONTENTS

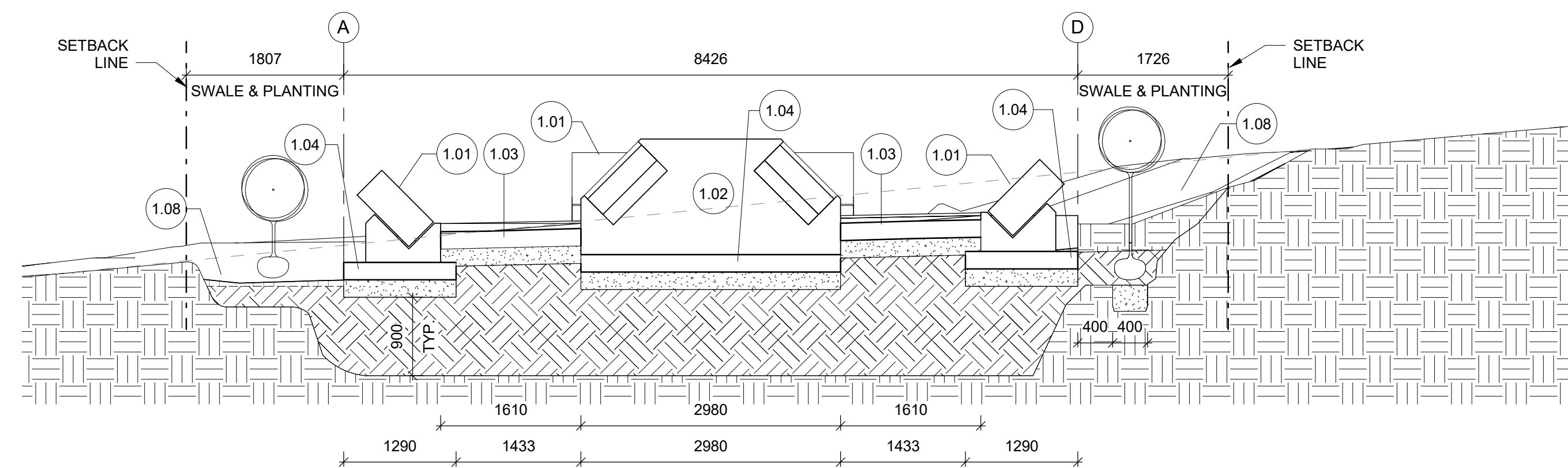
SITE SECTIONS AND DETAILS - PROJECT B

SHEET NUMBER

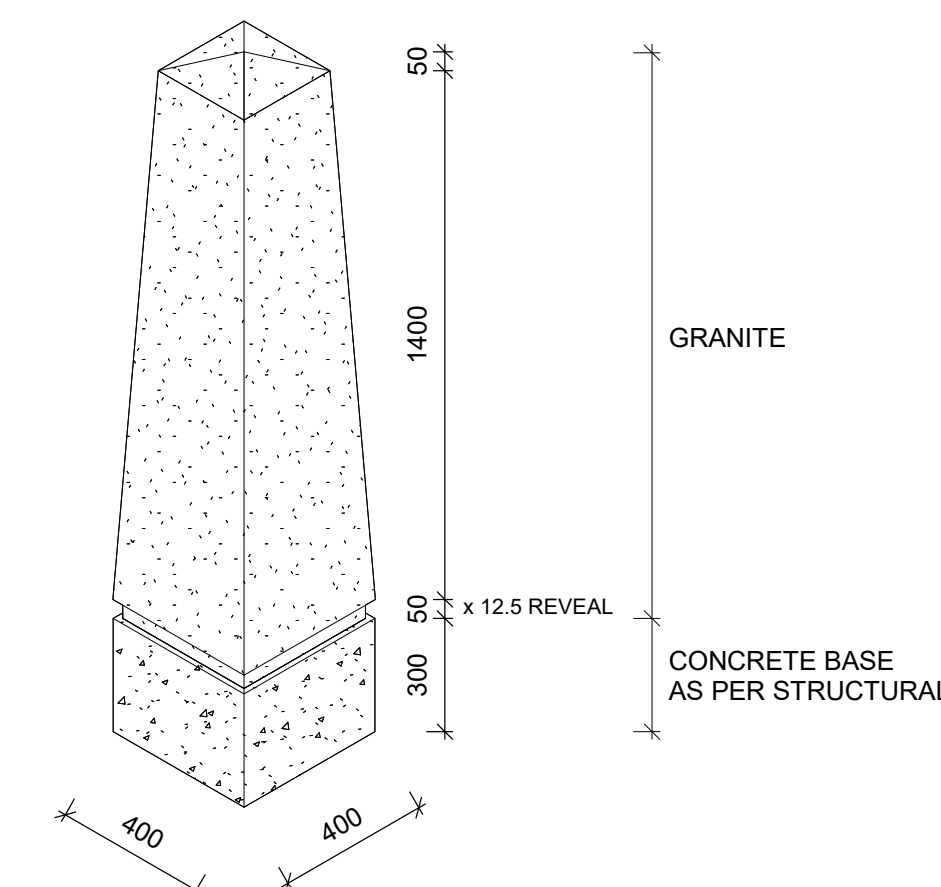
L-204



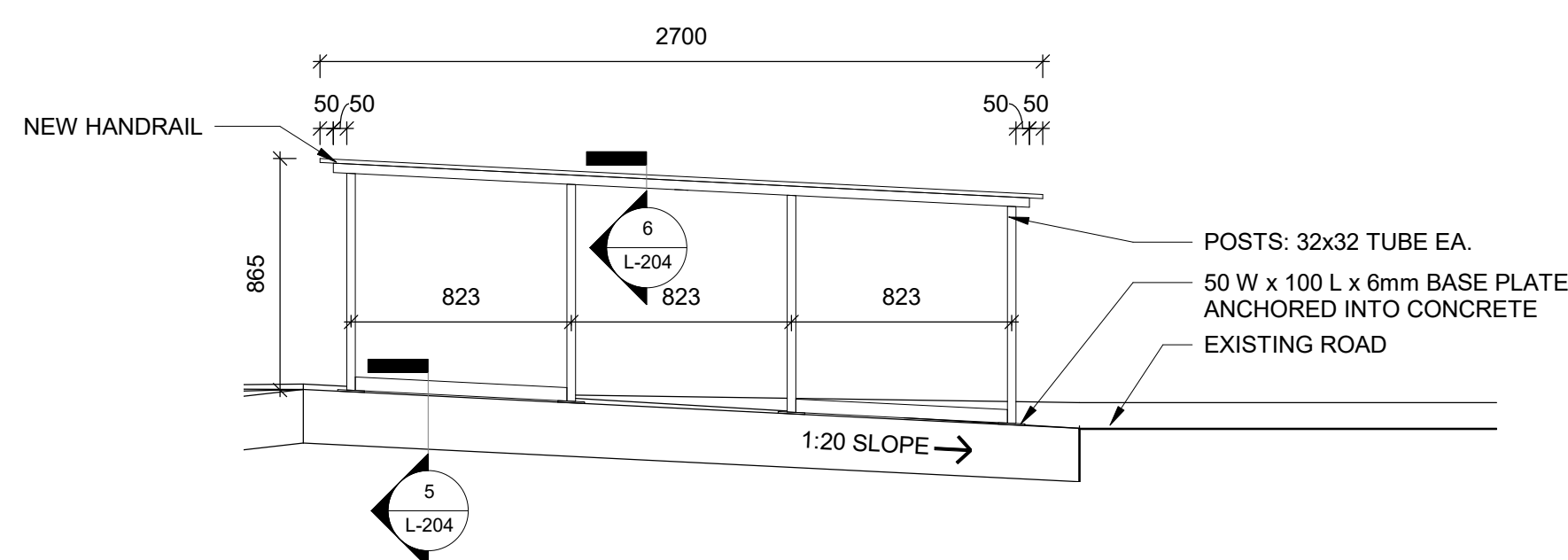
1 SECTION 2
L-204 1 : 50



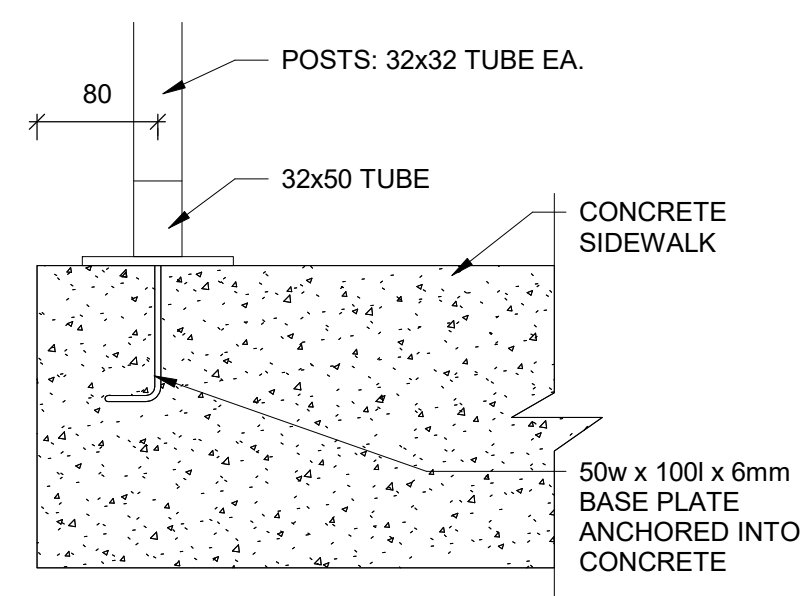
2 SECTION 1
L-204 1 : 50



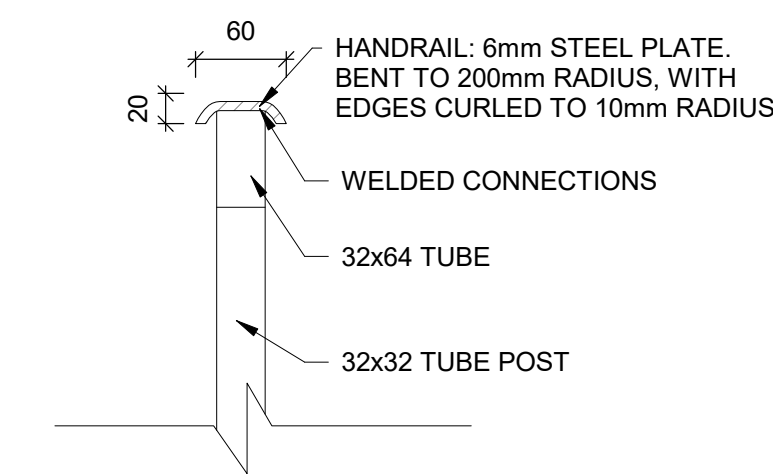
3 OBELISK
L-204 1 : 20



4 HANDRAIL DETAIL
L-204 1 : 25



5 Detail A
L-204 1 : 5



6 Detail B
L-204 1 : 5