



New McAdam Park Playground – Civil Scope

TENDER DOCUMENTS

Invitation to Tenderers

Instructions to Tenderers – Part I

Instructions to Tenderers – Part II (Separate Cover, Refer to MMCD Platinum Edition, Vol. II)

Form of Tender

Appendix 1 – Schedule of Quantities and Prices

Appendix 2 – Construction Schedule

Appendix 3 – Experience of Superintendent

Appendix 4 – Comparable Work Experience

Appendix 5 – Subcontractors

Appendix 6 – Social Procurement

Form of Agreement

Schedule 1 – Schedule of Contract Documents

Schedule 2 – List of Contract Drawings

General Conditions (Separate Cover, Refer to MMCD Platinum Edition Volume II)

Supplementary General Conditions

Specifications (Separate Cover, Refer to MMCD Platinum Edition, Volume II)

Supplementary Specifications

Separate Cover – City of Duncan Works and Services Bylaw No. 3158, 2017

Contract Drawings

Standard Detail Drawings (Separate Cover, Refer to MMCD Platinum Edition, Volume II)

Owner: City of Duncan

(NAME OF OWNER)

Contract: New McAdam Park Playground – Civil Scope

(TITLE OF CONTRACT)

Reference No.: 2233-02150-00

(OWNER'S CONTRACT REFERENCE NO.)

The Owner invites tenders for: Construction of Civil Scope for New McAdam Playground generally consists of:
Site clearing and grubbing, preparation of base / sub-base, concrete pathways
and edging, waterworks, drainage works, restoration, and landscaping.

(BRIEF DESCRIPTION OF THE WORK)

Digital (PDF) copies of the
Contract Documents are available
for no charge:

Through BC Bid website.

Tenders are scheduled to close: **Tender Closing Time:** 2: 00, P m local time
Tender Closing Date: June 21st, 20 24

Address: 200 Craig Street

Duncan, BC V9L 1W3

Documents to be dropped off at front desk

(ADDRESS WHERE TENDERS MUST BE SUBMITTED)

Name of Owner's Representative: Brian Murphy

250-746-6126

(PHONE)

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(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

(TO BE READ WITH “INSTRUCTIONS TO TENDERERS - PART II”
CONTAINED IN THE EDITION OF THE PUBLICATION
“MASTER MUNICIPAL CONSTRUCTION DOCUMENTS” SPECIFIED IN ARTICLE 2.2 BELOW)

Owner: City of Duncan
(NAME OF OWNER)

Contract: New McAdam Park Playground – Civil Scope
(TITLE OF CONTRACT)

Reference No.: 2233-02150-00
(OWNER'S CONTRACT REFERENCE NO.)

1.0 Introduction

1.1 These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work:
Construction of Civil Scope for New McAdam Playground generally
consists of: Site clearing and grubbing, preparation of base / sub-base,
concrete pathways and edging, waterworks, drainage works, restoration, and
landscaping.

(BRIEF DESCRIPTION OF THE WORK)

1.2 Direct all inquiries regarding the *Contract*, to:
McElhanney Ltd.

Lukas Brezina, P.Eng., Project Manager

(NAME AND POSITION OF INDIVIDUAL WHO WILL ANSWER INQUIRIES)

Address: 107-225 Canada Ave
Duncan, BC
V9L 1T6

Phone: 778 - 841 - 0729

Email: LBrezina@mcelhanney.com

2.0 Tender Documents

2.1 The tender documents which a tenderer should review to prepare a tender consist of all of the *Contract Documents* listed in Schedule 1 entitled “Schedule of Contract Documents”. Schedule 1 is attached to the Agreement which is included as part of the tender package. The *Contract Documents* include the drawings listed in Schedule 2 to the Agreement, entitled “List of *Contract Drawings*”.

2.2 A portion of the *Contract Documents* are included by reference. Copies of

these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings. They are those contained in the publication entitled “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings”. Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.

2.3 Any additional information made available to tenderers prior to the *Tender Closing Time* by the *Owner* or representative of the *Owner*, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available only for the assistance of tenderers who must make their own judgment about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.

3.0 Submission of Tenders

3.1 Tenders must be submitted in a sealed envelope, marked on the outside with the above *Contract* Title and Reference No., and must be received by the office of:

Brian Murphy, Director of Public Works and Engineering

(TITLE OF POSITION)

on or before:

Tender Closing Time: _____ 2: 00 _____, _____ P_m local time
Tender Closing Date: June 21st _____, 20 24

at City of Duncan

Address: 200 Craig Street
Duncan, BC V9L 1W3
Documents to be dropped off at front desk

3.2 Late tenders will not be accepted or considered, and will be returned unopened.

- 4.0 Supplemental Instructions to Tenderers
- 4.1 **Freedom of Information:** The City is subject to the provisions of the Freedom of Information and Protection of Privacy Act. As a result, while Section 21 of the Act does offer some protection for third party business interests, the City cannot guarantee that any information provided to the City can be held in confidence.
- 4.2 **Funding:** Proceeding with an award of this tender may be subject to available funding.
- 4.3 **Award:** The intent is to award the lowest bid price or bid prices but the lowest or any bid price will not necessarily be accepted. If the City elects to reject all bids, the City will not be liable to any bidder for any claims whether for costs incurred by any bidder in preparing the bid, damages, loss of anticipated profit in connection with the work, or any other matter whatsoever.
- 4.4 **Negotiation:** The City reserves the right to negotiate the scope of work with the lowest compliant bidder prior to the contract award.
- 4.5 **Non-Compliant Bids:** The City reserves the right to deem a bid non-compliant if the provided experience in Appendix 3 and Appendix 4 for the Form of Tender is incomplete or not relevant and comparable to the project scope.
- 4.6 **Optional Work:** The construction of the new pathway from the new playground area west to the McAdam Park entrance/parking lot is an optional Scope of Work, which may or may not be included in the awarded scope of work.
- 4.7 **Notice of Project:** Submit to WorkSafe BC a completed Notice of Project, providing a copy to the City.
- 4.8 **Construction Traffic Management Plan:** Submit to the Contract Administrator, prior to construction, a construction traffic management plan for review by the Contract Administrator and the Owner.
- 4.9 **Facsimile:** Faxed amendments or revocations will not be accepted.
- 4.10 **Inquiries:** All questions should be received at least 5 business days prior to the closing time and date.
- 4.11 **Working Hours:** The Contractor is required to abide by the following working hours set out in the City of Duncan Good Neighbour Bylaw No. 3156, 2017.
- 4.12 **Important Dates:**
- .1 The Last Addendum will be posted by the end of the day on Tuesday, June 18th, 2024.
- 4.13 **Superintendent:** The *Owner* reserves the right to object to the *Superintendent* listed in the tender. If the *Owner* objects to the *Superintendent* then the *Owner* will permit a tenderer to, within 5 days, propose a substitute *Superintendent* acceptable to the *Owner* provided that there is no resulting adjustment in the *Tender Price* or the completion date set out in paragraph 2.2 of the Form of Tender. A tenderer will not be required to make such a substitution and, if the *Owner* objects to a listed *Superintendent*, the tenderer may, rather than propose a substitute *Superintendent*, consider its tender rejected by the *Owner* and by written notice withdraw its tender. The *Owner* shall, in that event, return the tenderer's bid security.
- 4.14 **Schedule:** See critical dates in Appendix 2 of the Form of Tender

- 4.15 **Fuel Consumption:** The successful Contractor shall provide a summary of all fuel usage quantities throughout the duration of the Project to Owner upon Project completion.
- 4.16 **Tender Opening:** There will be a public tender opening at 3:00 PM PST on June 21st, 2024 at City Hall (200 Craig Street, Duncan BC V9L 1W3)
- 4.17 **Tender Briefing:** There will not be a public tender briefing or meeting held for this project.

FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT - TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.

Owner: City of Duncan
(NAME OF OWNER)

Contract: New McAdam Park Playground – Civil Scope
(TITLE OF CONTRACT)

Reference No.: 2233-02150-00
(OWNER'S CONTRACT REFERENCE NO.)

To Owner:

WE, THE UNDERSIGNED: 1.1 have received and carefully reviewed all of the *Contract Documents*, including the Instructions to Tenderers, the specified edition of the "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings" and the following Addenda:

(ADDENDA, IF ANY)

1.2 have full knowledge of the *Place of the Work*, and the *Work* required; and

1.3 have complied with the Instructions to Tenderers; and

**ACCORDINGLY WE
HEREBY OFFER:**

2.1 to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*; and

2.2 to achieve Substantial Performance of the *Work* on or before
September 1, 2024; and
(WORK DURATION OR DATE)

2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of tender comparison, our offer is to complete the *Work* for the "*Tender Price*" as set out on Appendix 1 of this Form of Tender. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes GST.

WE CONFIRM:

3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.

- WE CONFIRM:** 4.1 that the following appendices are attached to and form a part of this tender:
- 4.1.1 the appendices as required by paragraph 5.3 of the Instructions to Tenderers – Part II; and
 - 4.1.2 the *Bid Security* as required by paragraph 5.2 of the Instructions to Tenderers – Part II.
- WE AGREE:** 5.1 that this tender will be irrevocable and open for acceptance by the *Owner* for a period of 60 calendar days from the day following the *Tender Closing Date and Time*, even if the tender of another tenderer is accepted by the *Owner*. If within this period the *Owner* delivers a written notice (“*Notice of Award*”) by which the *Owner* accepts our tender we will:
- 5.1.1 within 15 *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:
 - .1 a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the Contract Price, covering the performance of the Work including the Contractor’s obligations during the Maintenance Period, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*;
 - .2 a Baseline Construction Schedule, as provided by GC 4.6.1;
 - .3 a “clearance letter” indicating that the tenderer is in Worksafe BC compliance; and
 - .4 a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place; and
 - .5 a Construction Traffic Management Plan as detailed in the Supplemental Specifications
 - 5.1.2 within 2 *Days* of receipt of written “*Notice to Proceed*”, or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and
 - 5.1.3 sign the Contract Documents as required by GC 2.1.2.
- WE AGREE:** 6.1 that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:
- 6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or

- 6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*,
then such failure or refusal will be deemed to be a refusal by us to enter into the Contract and the *Owner* may, on written notice to us, award the *Contract* to another party. We further agree that, as full compensation on account of damages suffered by the *Owner* because of such failure or refusal, the *Bid Security* shall be forfeited to the *Owner*, in an amount equal to the lesser of:
- 6.1.3 the face value of the *Bid Security*; and
- 6.1.4 the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

OUR ADDRESS IS AS FOLLOWS:

Phone: _____

Fax: _____

Attention: _____

email: _____

This Tender is executed this _____ day of _____, 20 _____.

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

FORM OF TENDER

APPENDIX 1 – SCHEDULE OF QUANTITIES AND PRICES

Form of Tender - Appendix 1

SCHEDULE OF QUANTITIES AND PRICES
(See paragraph 5.3.1 of the Instructions to Tenderers - Part II)

(All prices and *Quotations* including the *Contract Price* shall include all *Taxes*, but shall not include *GST*.)

Any work called for in these Contract Documents, shown on the plans, or which is necessary for the completion of the Work called for in these Contract Documents and which is not specifically listed as a separate payment item in this Appendix shall be deemed incidental to the performance of the Work and to the general purpose of the Contract; no separate payment will be made on account of any such Work, but the costs of any such incidental Work shall be included in the Unit and Lump Sum Prices.

Summary Sheet

Division 01:	General Requirements	\$ _____
Division 03:	Concrete	\$ _____
Division 31:	Earthworks	\$ _____
Division 32:	Roads and Site Improvements	\$ _____
Division 33:	Utilities	\$ _____
Optional Work		\$ _____

TOTAL TENDER PRICE	\$ _____
GST (5%)	\$ _____
TENDER PRICE plus GST	\$ _____

Tenderer's Initials _____

DIV 01		GENERAL REQUIREMENTS				
Item No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	01 10 00SS	Quality Control Testing				
1.01	1.1	Quality Control Testing	Lump Sum	1		
	01 10 00SS	Survey				
1.02	1.2	Layout Survey, Quantity Survey, Volume Calculations, and Record Survey	Lump Sum	1		
	01 33 01	Project Record Documents				
1.03	1.8.1	Project Record Documents	Lump Sum	1		
	01 52 01	Temporary Structures				
1.04	1.6.2ss	Mobilization & Demobilization	Lump Sum	1		
	01 55 00	Traffic Control, Vehicle Access and Parking				
1.05	1.5.1, 1.4.15ss	Traffic Management Plan (TMP), Traffic Control, Vehicle Access and Parking	Lump Sum	1		
	01 57 01	Environmental Protection				
1.06	1.6.1, 1.6.2ss	Environmental Protection Plan	Lump Sum	1		
Sub-Total					\$	

DIV 03		CONCRETE				
Item No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	03 30 20	Concrete Walks, Curb And Gutter				
3.01	1.4.5	Concrete Sidewalk, 2 m wide, 100 mm thickness Includes 100mm thick granular base, ramps to Beech Ave	Square Metres	334		
3.02	1.4.5	Concrete Pads, 100 mm thickness Includes 100mm thick granular base.	Square Metres	45		
3.03	1.4.2ss, 1.4.3ss	Concrete Curb and Gutter c/w letdowns to sidewalks	Lineal Metre	8		
Sub-Total					\$	

DIV 31		EARTHWORKS				
Item No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	31 05 17	Aggregates and Granular Materials				
31.01	1.4.1	Drain Rock, 25mm	Cubic Metres	175		
	31 23 01	Clearing and Grubbing				

Tenderer's Initials _____

31.02	1.4.1	Tree Removal and Disposal	Each	1		
31.03	1.4.1	Shrub Removal and Disposal	Each	2		
	31 23 01	Excavating, Trenching and Backfilling				
31.04	1.3.2	Common Excavation Including pavement, curb & gutter, and bollard removal as necessary. Offsite removal.	Cubic Metres	550		
	31 23 19	Geosynthetics				
31.05	1.3.2	Non-Woven Filter Fabric Supply and Install.	Square Metres	650		
	31 24 13	Roadway Excavation, Embankment and Compaction				
31.06	1.8.9	Subgrade Preparation East Sidewalks, Concrete Pads, and Playground Area.	Square Metres	985		
Sub-Total					\$	

DIV 32		ROADS AND SITE IMPROVEMENTS				
<i>Item No.</i>	<i>Section</i>	<i>Specification Title</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Amount</i>
	32 91 21	Topsoil and Finish Grading				
32.01	1.4.1	Topsoil - 100mm depth	Square Metres	160		
	32 92 19	Hydraulic Seeding				
32.02	1.8.1	Hydraulic Seeding	Square Metres	160		
	32 93 01	Planting of Trees, Shrubs and Ground Covers				
32.03	1.9.1	Supply and Plant Replacement Trees	Each	3		
	ss	Site Fixtures & Furnishings				
32.04	32.1ss	Water Fountain Station – Installation Fountain to be supplied by the City of Duncan.	Lump sum	1		
32.05	32.2ss	Park Bench - Uline Plaza Bench H-4337, 6' Metal Frame, Brown colour Supply and Install.	Each	3		
32.06	32.3ss	Concrete Picnic Table – Installation Table to be supplied by the City of Duncan.	Each	2		
Sub-Total					\$	

Tenderer's Initials _____

DIV 33		UTILITIES				
Item No.	Section	Specification Title	Unit	Quantity	Unit Price	Amount
	33 11 01	Waterworks				
33.01	1.8.2	Water service 19mm dia (MST160 PE), length 26 m Including connection to the main and completed with water meter assembly per CoD details.	Lump sum	1		
	33 40 01	Storm Sewers				
33.02	1.6.2	150mm SDR 28 PVC Storm Pipe Including excavation, bedding, and backfill.	Linear Metre	36		
33.03	1.6.5	Lawn Drain Supply and install.	Each	1		
33.04	1.6.9	Tie-in to Existing Dry Well	Each	1		
Sub-Total					\$	

Tenderer's Initials _____

**OPTIONAL WORK
(Included in Tender Price)**

This section forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts.

Optional items quoted on will be reviewed and accepted or rejected at the Owner's option. Accepted optional items prices will be identified in the construction agreement.

Coordinate related work and modify surrounding work to integrate the Work of each optional item.

Prices quoted should not include GST.

<i>Item No.</i>	<i>Section</i>	<i>Specification Title</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Amount</i>
	31 23 01	Excavating, Trenching and Backfilling				
1	1.10.3 1.10.5	Over-excavation - Unsuitable Subgrade Areas	Cubic Metre	50		
	31 23 01	Excavating, Trenching and Backfilling				
2	1.3.2	Common Excavation – Sidewalk to west parking lost Offsite disposal.	Cubic Metres	32		
	03 30 20	Concrete Walks, Curb And Gutter				
3	1.4.5	Concrete Sidewalk, 2 m wide, 100 mm thickness Includes 100mm thick granular base.	Square Metres	134		
	31 24 13	Roadway Excavation, Embankment and Compaction				
4	1.8.9	Subgrade Preparation Sidewalk to west park entrance road/parking area	Square Metres	134		
	32 91 21	Topsoil and Finish Grading				
5	1.4.1	Topsoil - 100mm depth	Square Metres	55		
	32 92 19	Hydraulic Seeding				
6	1.8.1	Hydraulic Seeding	Square Metres	55		

Tenderer's Initials _____

New McAdam Park Playground – Civil Scope

(TITLE OF CONTRACT)

See paragraph 5.3.3 of the Instructions to Tenderers – Part II.

Name: _____

EXPERIENCE

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

New McAdam Park Playground – Civil Scope

(TITLE OF CONTRACT)

	Social Procurement Principles or Practices	Yes	No	N/A	Describe where applicable
Diverse Employment Policies and Practices					
1	Does your enterprise work with employment support services within the communities you operate?				<i>Answer prompt: identify the employment support services that you engage with to address workplace needs</i>
Employee Training, Wellness, and Apprenticeship Programs					
2	Does your enterprise provide employee training and development programs?				<i>Answer prompt: describe- what type of training and development do you offer employees?</i>
3	Does your enterprise provide apprenticeships?				<i>Answer prompt: what types of apprenticeships do you host, how many annually, which colleges and institutions do you partner with?</i>

Living Wages					
4	Does your enterprise pay your employees a living wage? The 2023 living wage for Cowichan Valley is \$25.20/hour.				<i>Answer prompt: what percentage of your employees earn above a living wage? What other considerations inform or influence your wages? What other benefits do you offer employees?</i>
Supply Chain Considerations					
5	Do you consider social value in your production process and/or supply chain (e.g. local sourcing for labour and/or materials, social and environmental considerations)				<i>Answer prompt: Describe your process for contracting suppliers- what criteria do you use in selecting and working with your suppliers?</i>
Other Community Benefits					
6	Does your enterprise support community initiatives and/or non-profits in the communities you operate?				<i>Answer prompt: Provide an example of a non-profit partnership, community initiative or other community contributions, outside of your regular course of business, that demonstrates your community engagement</i>

(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

BETWEEN OWNER AND CONTRACTOR

This agreement made in duplicate this

_____ day of _____, 20_24.

CONTRACT: New McAdam Park Playground – Civil Scope

REFERENCE No. 02150-00

BETWEEN:

The City of Duncan
(the "Owner")

AND:

(NAME AND OFFICE ADDRESS OF CONTRACTOR)

(the "Contractor")

THE OWNER AND THE CONTRACTOR AGREE AS FOLLOWS:

- | | | |
|--|-----|---|
| Article 1 THE WORK
START /
COMPLETION
DATES | 1.1 | The <i>Contractor</i> will perform all <i>Work</i> and provide all labour, equipment and material and do all things strictly as required by the <i>Contract Documents</i> . |
| | 1.2 | The <i>Contractor</i> will commence the <i>Work</i> in accordance with the <i>Notice to Proceed</i> . The <i>Contractor</i> will proceed with the <i>Work</i> diligently, will perform the <i>Work</i> generally in accordance with the construction schedules as required by the <i>Contract Documents</i> and will achieve <i>Substantial Performance</i> of the <i>Work</i> on or before <u>September 1, 2024</u> subject to the provisions of the <i>Contract Documents</i> for adjustments to the <i>Contract Time</i> . |
| | 1.3 | Time shall be of the essence of the <i>Contract</i> . |

- Article 2** **CONTRACT DOCUMENTS**
- 2.1 The “*Contract Documents*” consist of the documents listed or referred to in Schedule 1, entitled “Schedule of Contract Documents”, which is attached and forms a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the *Contract Documents*. All of the *Contract Documents* shall constitute the entire *Contract* between the *Owner* and the *Contractor*.
- 2.2 The *Contract* supersedes all prior negotiations, representations, or agreements, whether written or oral, and the *Contract* may be amended only in strict accordance with the provisions of the *Contract Documents*.
- Article 3** **CONTRACT PRICE**
- 3.1 The price for the *Work* (“*Contract Price*”) shall be the sum in Canadian dollars of the following
- 3.1.1 the product of the actual quantities of the items of *Work* listed in the *Schedule of Quantities and Prices* which are incorporated into or made necessary by the *Work* and the unit prices listed in the *Schedule of Quantities and Prices*; plus
- 3.1.2 all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus
- 3.1.3 any adjustments, including any payments owing on account of *Changes* and agreed to *Extra Work*, approved in accordance with the provisions of the *Contract Documents*.
- 3.2 The *Contract Price* shall be the entire compensation owing to the *Contractor* for the *Work* and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the *Work*.
- Article 4** **PAYMENT**
- 4.1 Subject to applicable legislation and the provisions of the *Contract Documents*, the *Owner* shall make payments to the *Contractor*.
- 4.2 If the *Owner* fails to make payments to the *Contractor* as they become due in accordance with the terms of the *Contract Documents* then interest calculated at 2% per annum over the prime commercial lending rate of the Royal Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.
- Article 5** **RIGHTS AND REMEDIES**
- 5.1 The duties and obligations imposed by the *Contract Documents* and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights, and remedies otherwise imposed or available by law.
- 5.2 Except as specifically set out in the *Contract Documents*, no action or failure to act by the *Owner*, *Contract Administrator* or *Contractor* shall

constitute a waiver of any of the parties' rights or duties afforded under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the *Contract*.

Article 6 NOTICES

6.1 Communications among the *Owner*, the *Contract Administrator* and the *Contractor*, including all written notices required by the *Contract Documents*, may be delivered by hand, or by fax, or by email, or by pre-paid registered mail to the addresses as set out below:

The OWNER:

City of Duncan
200 Craig Street, Duncan, BC, V9L 1W3

Email: bmurphy@duncan.ca
Attention: Brian Murphy, Director of Public Works and Engineering

The CONTRACTOR:

Fax: _____
Email _____
Attention: _____

The CONTRACT ADMINISTRATOR:

McElhanney Ltd.
107-225 Canada Avenue, Duncan, BC, V9L 1T6

Email: LBrezina@mcelhanney.com
Attention: Lukas Brezina, P.Eng.

6.2 A communication or notice that is addressed as above shall be considered to have been received

3.1.4 immediately upon delivery, if delivered by hand; or

3.1.5 after 5 Days from date of posting if sent by registered mail

3.1.6 n/a

- 6.3 The *Owner* or the *Contractor* may, at any time, change its address for notice by giving written notice to the other at the address then applicable. Similarly if the *Contract Administrator* changes its address for notice then the *Owner* will give or cause to be given written notice to the *Contractor*.
- 6.4 The sender of a notice by fax assumes all risk that the fax is received in hard copy.

Article 7 GENERAL

- 7.1 This *Contract* shall be construed according to the laws of British Columbia.
- 7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.
- 7.3 The headings included in the *Contract Documents* are for convenience only and do not form part of this *Contract* and will not be used to interpret, define or limit the scope or intent of this *Contract* or any of the provisions of the *Contract Documents*.
- 7.4 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.
- 7.5 This agreement shall ensure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first written above.

CONTRACTOR:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

OWNER:

City of Duncan

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

(INCLUDE IN LIST ALL DOCUMENTS INCLUDING, IF ANY, SUPPLEMENTARY GENERAL CONDITIONS, SUPPLEMENTARY SPECIFICATIONS, SUPPLEMENTARY STANDARD DETAIL DRAWINGS.)

Schedule 1 SCHEDULE OF CONTRACT DOCUMENTS

The following is an exact and complete list of the *Contract Documents*, as referred to in Article 2.1 of the Agreement.

NOTE: The documents noted with “*” are contained in the “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings”, edition dated 2019. All sections of this publication are included in the *Contract Documents*.

- 8.1 Agreement, including all Schedules;
- 8.2 Supplementary General Conditions;
- 8.3 General Conditions*;
- 8.4 Supplementary Specifications;
- 8.5 City of Duncan Works and Services Bylaw No. 3158, 2017;
- 8.6 Specifications*;
- 8.7 Supplementary Standard Detail Drawings;
- 8.8 Standard Detail Drawings*;
- 8.9 Executed Form of Tender, including all Appendices;
- 8.10 *Contract Drawings* listed in Schedule 2 to the Agreement – “List of *Contract Drawings*”;
- 8.11 Instructions to Tenderers - Part I;
- 8.12 Instructions to Tenderers - Part II*

The following Addenda:

(ADDENDA, IF ANY)

(COMPLETE LISTING OF ALL DRAWINGS, PLANS AND SKETCHES WHICH ARE TO FORM A PART OF THE CONTRACT, OTHER THAN STANDARD DETAIL DRAWINGS AND SUPPLEMENTARY STANDARD DETAIL DRAWINGS.)

Schedule 2 LIST OF CONTRACT DRAWINGS

TITLE	DRAWING NO.	DATE	REVISION NO.	REVISION DATE
TITLE SHEET	C01	2023/10	R4	
SITE PLAN	C02	2023/10	R4	
PLAYGROUND SIDEWALK PLAN & PROFILE	C03	2023/10	R4	
NORTH AND SOUTH SIDEWALK PLAN & PROFILE	C04	2023/10	R4	
WEST SIDEWALK PLAN & PROFILE	C05	2023/10	R4	
WEST SIDEWALK PLAN & PROFILE	C06	2023/10	R4	
PLAYGROUND PLAN & PROFILE	C07	2023/10	R4	
DRY WELL PLAN & PROFILE	C08	2023/10	R4	
SIDEWALK GRADING PLAN	C09	2023/10	R4	
SUBGRADE GRADING PLAN	C10	2023/10	R4	
STANDARD DETAILS	C11	2023/10	R4	
WATER FOUNTAIN DETAILS Sheet 1 *FOR REFERENCE ONLY	P2022-355-0000A Sheet 1	2022/10	B	
WATER FOUNTAIN DETAILS Sheet 2 *FOR REFERENCE ONLY	P2022-355-0000A Sheet 2	2023/05	B	
DRINKING FOUNTAIN HYDRANT CONNECTION *FOR REFERENCE ONLY	P2022-355-0001A	2023/07	A	

Modifications and Additions to the Master Municipal Construction Documents

The following conditions form part of the Contract and are supplementary to the MMCD General Conditions and Specifications. In the event of a direct conflict between the MMCD General Conditions and these Supplementary GC's the Supplementary GC's take precedence. Notwithstanding this order of precedence, in the event of a conflict between or within any of the Contract Documents, the more stringent provisions shall apply with the intent that those which produce the highest quality and performance, shall govern.

SECTION	SUB SECTION	SUPPLEMENTARY GENERAL CONDITIONS
GC 1.0 DEFINITIONS	New 1.79 Archaeological Artifacts	“ <i>Archaeological Artifacts</i> means any fossils, artifacts, coins, articles of value or antiquity, remains, and other things of geological, archaeological or historical interest or value discovered at the <i>Place of the Work</i> .”
	New 1.80 Engineer	“ <i>Engineer</i> means the <i>Contract Administrator</i> .”
	New 1.81 Utilities	“ <i>Utilities</i> is used broadly and includes but is not limited to any and all lines, poles, structures, facilities, utilities for power, cable, TV, telephone, telecommunications, all sanitary and storm sewers, and all water, oil, gas and electric services, all steam pipes and services, all survey monuments, all street lights, traffic lights, traffic detector loops embedded in pavement, culverts, rail tracks, whether located above or below ground, whether visible or invisible, whether man-made or natural.”
GC 2.0 DOCUMENTS	2.2.4 Document Hierarchy	<p>Replace Section (1) with the following:</p> <p>“The Contract Documents shall govern and take precedence in the following order with the Agreement taking precedence over all other Contract Documents:</p> <ul style="list-style-type: none"> a) Agreement b) Addenda c) Supplementary General Conditions d) General Conditions e) Supplementary Specifications f) City of Duncan Works and Services Bylaw No. 3158, 2017 g) Specifications h) Drawings listed in Schedule 2 to the Agreement i) Supplementary Detail Drawings j) Standard Detail Drawings k) Executed Form of Tender l) Instructions to Tenderers m) All other Contract Documents.”
GC 2.0	New 2.4.3	“The <i>Contract Drawings</i> shall not be used for the

DOCUMENTS	Copies of Contract Documents	construction of the Work unless marked “Issued for Construction” and sealed by a registered professional engineer.”
GC 3.0 CONTRACT ADMINISTRATOR	3.3.5 Contract Administration	Amend Clause 3.3.5 by adding: “The <i>Contract Administrator</i> will conduct survey checks of the completed work at his/her discretion. The <i>Contractor</i> will provide a survey assistant, at the <i>Contract Administrator’s</i> request, for such checks.”
GC 4.0 CONTRACTOR	4.6 Construction Schedule	Amend 4.6.2 by deleting: “monthly” and substituting “monthly or as required by the <i>Contract Administrator</i> ”.
GC 18.0 PAYMENT	18.5 Payment	Amend 18.5.1 by replacing: “15th day” to read “30th day”.
GC 20.0 LAWS, NOTICES, PERMITS AND FEES	New 20.4.2 Environmental Laws	“The <i>Contractor</i> shall indemnify the <i>Owner</i> , the <i>Contract Administrator</i> , and their respective employees, agents, officers and consultants for any costs, fines, expenses and penalties that the <i>Owner</i> is required to pay on account of the <i>Contractor</i> performing <i>Work</i> in breach of any applicable Federal, or Provincial or municipal laws, regulations, or orders.”
SGC 27.0 ARCHAEOLOGICAL ARTIFACTS	New 27.1.1 Archaeological Artifacts	“Any Archaeological Artifacts discovered by the <i>Contractor</i> shall, as between the <i>Owner</i> and the <i>Contractor</i> , be deemed to be the absolute property of the <i>Owner</i> ”.
	New 27.1.2 Archaeological Artifacts	“The <i>Contractor</i> shall immediately advise the <i>Contract Administrator</i> of the discovery by the <i>Contractor</i> of any Archaeological Artifacts and take all reasonable precautions to protect and preserve same”.
SGC 28.0 APPROVED SUPPLEMENTAL	New 28.1 Approved Supplemental	“All MMCD board approved Supplementary’s as listed at www.mmcd.net/ are to be included and in effect for this contract as of tender closing date.”

SUPPLEMENTARY SPECIFICATIONS		
Add the following Supplementary Specifications (attached at end):		
SECTION	SUB SECTION	SUPPLEMENTARY SPECIFICATION
01 10 00SS Measurement and Payment	All	
Site Fixtures & Furnishings	32.1ss	Payment for the Water Fountain Station shall be paid at the lump sum unit price shown on the Schedule of Quantities and Prices and shall include all labour, equipment, and materials required to install a complete functioning system, as shown on the Contract Drawings, including service hook-up and commissioning. The City of Duncan will provide water fountain as per Contract Drawings.
	32.2ss	Payment for Park Benches shall be paid at the unit price shown on the Schedule of Quantities and Prices and shall include all labour, equipment, and materials required to supply and install the furnishings as shown on the Contract Drawings. The pricing is to include, but not limited to, the footings / direct burial and surface mounting, as specified. Contractor is to provide Shop Drawings and Cut Sheets for approval prior to construction.
	32.3ss	Payment for installation of Concrete Picnic tables shall be paid at the unit price shown on the Schedule of Quantities and Prices and shall include all labour, equipment, and materials required to install the furnishings as shown on the Contract Drawings. The pricing is to include, but not limited to, the footings / direct burial and surface mounting, as specified. The City of Duncan will provide the Concrete Tables.
Revise the following Master Municipal Specifications Platinum Edition:		
SECTION	SUB SECTION	SUPPLEMENTARY SPECIFICATION
01 52 01 Temporary Structures	1.6 Payment	<p>Add Clause 1.6.2: "Payment for mobilization and demobilization shall include all the Contractor costs of mobilization at the beginning of the project and the cost of demobilization at the end of the project.</p> <p>.1 Included in the mobilization are such items as bonding, insurance, permits, moving personnel, equipment and materials to the site, setting up temporary facilities and all preparation for performing the <i>Work</i>.</p> <p>.2 Included in demobilization are preparation and submission of record drawings, operation and maintenance manuals, removal of all personnel, equipment and materials and cleanup of the <i>Site</i> and the <i>Work</i>.</p> <p>.3 The lump sum price bid for this work shall be relative to the costs involved but shall not exceed ten percent of the <i>Tender Price</i>.</p> <p>.4 Payment shall be made as follows, as approved by the Contract Administrator:</p> <p>.1 60% of the lump sum bid will be included in the first progress payment certificate</p> <p>.2 40% of the lump sum bid will be included in the final</p>

		<p>progress payment certificate</p> <p>.5 The Contract Administrator may at his discretion authorize partial payment if mobilization or demobilization is not complete</p> <p>.6 The cost of other items specified under General Requirements shall be considered incidental to the work and separate payment will not be made for any other items in the General Requirements unless specifically noted in the <i>Schedule of Quantities and Prices.</i>”</p>
<p>01 55 00 Traffic Control, Vehicle Access and Parking</p>	<p>1.4 Traffic Control</p>	<p>Add Clause 1.4.15: “Provide a detailed Traffic Management Plan (TMP) and drawings with dedicated traffic control and pedestrian delineation for safety of motorists, pedestrians and bicycle traffic for all locations where roadways are affected by construction activities. The TMP shall be sealed by a qualified professional engineer and will be approved by the Contract Administrator in advance of implementation. This plan is to be submitted to the Contract Administrator a minimum of 14 calendar days prior to the contractor’s desired date of construction commencement. The plan shall be updated and modified as requested by the Contract Administrator, as the construction project proceeds and traffic management needs warrant. The TMP is to contain sufficient details to allow the Contract Administrator and Owner a clear understanding of how the Contractor will ensure the following performance specification will be achieved, at a minimum.</p> <ol style="list-style-type: none"> 1. TMP shall be in prepared in accordance with the BC Ministry of Transportation and Infrastructure guidelines specified in the 2020 Traffic Management Guidelines for Work on Roadways Manual, and the 2016 Standard Specifications for Highway Construction. Table of Contents to include the following: <ol style="list-style-type: none"> 1.1. General Information 1.2. Operations and Signage 1.3. Users and Access 1.4. Traffic Control Drawings 1.5. Public Information Plan 1.6. Incident Management Plan 1.7. Implementation Plan 2. Partial closure of existing travel lanes to a minimum of single lane alternating traffic to facilitate construction of the Works may be requested 3. Diverted travel lanes must be on paved or granular base surfaces. Travel surface will allow for vehicles to move through the construction zone at an intended speed of 20 km/h. 4. Minimize stopping traffic in the travel lane. No dumping or off loading of materials shall be permitted in the travel lane. Stoppages are permitted for vehicle access to and egress from the construction zone or for construction vehicles crossing the travel lane. No delays for full lane closure of more than 5 minutes. 5. Provide a plan of all off site and on site signage and traffic control devices for review and acceptance by the Contract Administrator and the Owner. Update the plan as requested

		<p>whenever signage or traffic control device locations are changed.</p> <ol style="list-style-type: none"> 6. Provide access for garbage collection and recycling pick-up programs and mail delivery to all residents and businesses. Provide communication to and coordination with all service providers as necessary to ensure access as required. 7. Provide for the BC Transit bus routes. Communicate to and coordinate with BC Transit as necessary regarding temporary bus stop locations, transit through the work zone and any other issues that may arise that require discussion and coordination. 8. Work shall be in accordance with City of Duncan Noise Bylaws. 9. At the discretion of the Contract Administrator, the Contractor may be requested to modify the TMP to accommodate any irregularities or excessive congestion of traffic flow. Maximum total delays of up to 5 minutes are permitted 10. Maintain at least one access to all properties, at all times unless otherwise authorized by the Contract Administrator or unless the work is directly in front of a residential driveway. Where closures of residential driveways are required, provide a hand delivered letter a minimum of 72 hours prior to construction to impacted property owner(s). Driveways shall be closed for 72 hours for concrete curing. Daily access shall be provided for trenching where possible using steel plates. 11. Facilitate priority access through the work zone for fire trucks and all other emergency vehicles when they are operating with emergency lights and sirens active and where possible otherwise. 12. Where sidewalks are closed, provide adequate signage regarding pedestrian detour including signage at closest pedestrian crossing at each side of the closed section. Where work directly impacts sidewalk accessibility, “fixed in place” ramps with a tactile surface are to be provided at either end of the work area allowing pedestrians to safely negotiate the grade change between the roadway surface and drop ramps, curbs, and boulevards. Ramps must be of solid / sound construction, a minimum of 1.5m wide, less than 8% grade, and fixed in place with a traction surface and have a raised barrier edge a minimum of 35mm high. 13. Provide plan for on site or off site storage of materials and equipment, location of site trailers and all other storage facilities (e.g. shipping containers). Use of the road right-of way or other public lands will require a Permit to Occupy a Road Allowance.
<p>01 57 01 Environmental Protection</p>	<p>1.1 Section 10 57 01 Includes</p>	<p>Add Clause 1.1.5: “Qualified Environmental Professional”</p>
	<p>1.2 Temporary Erosion and Sediment Controls</p>	<p>Add Clause 1.2.1.4: “All catch basin, silt trap, and lawn basin inlet castings that may receive runoff from the work area to be covered with filter cloth. Ensure no silt or sediment enters the storm drainage system while removing the silt cloth once construction is complete”</p>

	1.4 Environmental Protection	<p>Add Clause 1.4.4: “Disposal of Waste:</p> <ol style="list-style-type: none"> 1. Do not bury rubbish and waste materials on site. 2. Do not dispose of waste or volatile materials such as mineral spirits, oil or paint thinner into waterways, storm or sanitary sewers. 3. Dispose of waste materials off property, in accordance with applicable provincial and/or federal regulations. Removal and disposal of Asbestos Cement pipe shall follow current WCB requirements.”
		<p>Add Clause 1.4.5: “Concrete and Asphalt Cutting and Placing:</p> <ol style="list-style-type: none"> 1. Control and pick up all wet or dry residue from saw cutting, coring, grinding and milling operations by means of a vacuum device or street sweeper. Under no circumstances is any dust, debris or run-off to migrate into waterways, storm or sanitary sewers. 2. Minimize the volume of wastewater produced by cutting tools by recycling and reusing wastewater whenever possible. 3. Do not allow cement washout into the streets, driveways, gutters, storm drains, ditches or water courses. 4. Set up and operate portable mixers on tarps or heavy drop cloths to contain spillage. 5. When breaking up and milling pavement, remove broken pavement and sweep area clean.”
	1.6 Measurement and Payment	<p>Add Clause 1.6.2: “Environmental Protection Plan shall be lump sum and includes all work to prepare, deliver and enact an Environmental Management Plan prepared by a registered qualified environmental professional (QEP) that contains the following components as applicable: tree protection plan; sensitive ecosystem management plan; sediment and erosion control plan; invasive species management plan; waste disposal; storage areas and laydown area management plan; equipment idling control plan; hazardous material control and spill response plan.”</p>
03 30 20 Concrete Walks, Curb and gutter	1.4 Measurement and Payment	<p>Delete Clause 1.4.2 Clause 1.4.3 delete: “excluding granular subbase and granular base” Replace with: “including granular subbase”</p>

1.0 GENERAL

- .1 Section 01 10 00SS addresses additional measurement and payment clauses which do not apply to other specification sections

1.1 Quality Control Testing

- .1 Perform all necessary Quality Management testing as indicated on the Drawings and/or within the Contract Documents. Payment shall be based on the Lump Sum bid the Schedule of Quantities and Unit Prices as measured and accepted by the Contract Administrator. Payment shall be accepted as full compensation for everything furnished and done. Payment of the Lump Sum bid will be paid in equal amounts each month.
- .2 Give timely notice requesting inspection if Work is designated for special tests, inspections or review by the Contract Administrator's instructions.
- .3 All submissions shall be prompt to ensure that all necessary retesting and replacement of construction can proceed without delay.
- .4 Process and distribute all required copies of test reports and test information and related instructions to all of his Sub-Contractors and Suppliers to ensure that all necessary retesting and replacement of construction can proceed without delay.
- .5 Provide the Owner with copies of all test results.
- .6 Submit samples and/or materials required for testing, as specifically requested in specifications or by the Owner.
- .7 Submit test results specifying that material requirements are being met.
- .8 Provide labour and facilities to obtain and handle samples and materials on-site. Provide sufficient space to store and cure test samples.

1.2 Layout survey, quantity survey, volume calculations and record survey

- .1 Payment shall be based on the Lump Sum bid in the Schedule of Quantities and Unit Prices as measured and accepted by the Contract Administrator. Payment shall be accepted as full compensation for everything furnished and done.
- .2 Payment of the lump sum bid will be paid in equal amounts each month.
- .3 The Contractor is responsible for all staking and survey layout and quantity calculations required for the completion of all Work, as shown on the Contract Drawings, and to affect incidental field adjustments.
- .4 The unit price bid shall include, but not be limited to; all survey layout, staking, cross sections, calculations of volumes required for tender items, coordination required for the completion of the work, record survey, and all other work and materials incidental and necessary to complete the Work to provide a functional system.
- .5 Any calculations necessary shall be performed by the Contractor and shall be provided to the Contract Administrator at any time upon request. Information shall include both text files and any CAD drawings.



New McAdam Park Playground – Civil Scope

CONTRACT DRAWINGS

CITY OF DUNCAN

McADAM PARK PLAYGROUND DECEMBER 2023

GENERAL NOTES:

1. THE CITY OF DUNCAN REFERENCES MMCD PLATINUM EDITION VOLUME II 2009 CONSTRUCTION SPECIFICATIONS. UNLESS OTHERWISE SPECIFIED HEREIN, THE CITY OF DUNCAN RESERVES THE RIGHT TO MODIFY/ALTER ANY MMCD SPECIFICATION TO SUIT THE CITY OF DUNCAN.
2. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REINSTATE ANY SURFACE WORKS OR UNDERGROUND UTILITIES INCLUDING IRRIGATION LINES TO EXISTING OR BETTER CONDITION IF DAMAGED BY THE CONTRACTOR OR SUBCONTRACTOR DUE TO CONSTRUCTION.
3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN COMPILED FROM DIFFERENT SOURCES AND ARE APPROXIMATE ONLY. EXACT LOCATION IS UNKNOWN AND MUST BE CONFIRMED PRIOR TO CONSTRUCTION. THE CITY ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SHOWN.
4. CONTRACTOR TO COMPLY WITH ALL ENVIRONMENTAL, FISHERIES, LEGISLATION, REGULATIONS AND CITY OF DUNCAN BY-LAWS DURING CONSTRUCTION.
5. ALL WORK IS TO CONFORM TO THE CITY OF DUNCAN'S TREE PROTECTION BYLAW NO.3135. THIS BYLAW CAN BE FOUND ON THE CITY OF DUNCAN WEBSITE. WORK UNDER BYLAW PROTECTED TREES MUST BE DONE UNDER THE GUIDANCE OF AN ARBORIST.
6. NOT ALL, IF ANY, EXISTING STRUCTURES OR LANDSCAPING ARE SHOWN. CONTRACTOR TO IDENTIFY ANY DESIGN CONFLICTS WITH STRUCTURES AND/OR LANDSCAPING PRIOR TO INSTALLATION. IF ANY DESIGN CONFLICTS ARE FOUND THE CONTRACTOR IS TO CONTACT THE CONTRACT ADMINISTRATOR IMMEDIATELY.
7. ANY MATERIALS, INCLUDING BUT NOT LIMITED TO SOIL, ORGANIC WASTE, PARTS, CONCRETE, ETC. TO BE REMOVED AS A PART OF CONSTRUCTION IS TO BE DISPOSED OF OFF SITE AT THE CONTRACTORS EXPENSE.
8. CONTRACTOR IS RESPONSIBLE FOR RECORDING ALL ACTUAL SITE CONDITIONS.
9. CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY LAYOUT. THE CITY OF DUNCAN WILL PROVIDE INITIAL SURVEY CONTROL.
10. ANY NON-EMERGENCY ASSISTANCE FROM THE CITY OF DUNCAN'S PUBLIC WORKS CREW REQUIRES 1 WEEKS NOTICE.

WATER

11. THE MINIMUM DEPTH OF COVER ON WATER SERVICES SHALL BE 0.7m UNLESS OTHERWISE PERMITTED BY THE CITY OF DUNCAN.
12. ALL SERVICES ARE TO BE 19mm MST 200 POLY UNLESS OTHERWISE NOTED.
13. CONTRACTOR IS NOT PERMITTED TO OPERATE ANY EXISTING VALVES (GATE OR OTHER) THAT ARE ON THE LIVE WATER DISTRIBUTION SYSTEM. CONTRACTOR TO COORDINATE ANY LIVE SYSTEM APPURTENANCES WITH 2 WEEKS NOTICE.
14. WATER FOUNTAIN TO BE CITY OF CALGARY DRINKING FOUNTAIN P2022-355
15. WATER SAMPLES FOR HEALTH TESTS TO BE COLLECTED AND PROCESSED BY CONTRACTOR IN THE PRESENCE OF CITY OF DUNCAN PERSONNEL.
16. CONTRACTOR TO MAKE ALL CONNECTIONS TO EXISTING WATER MAINS IN THE PRESENCE OF CITY OF DUNCAN WATER OPERATOR WITH MINIMUM 7 DAY NOTICE.

SANITARY/STORM

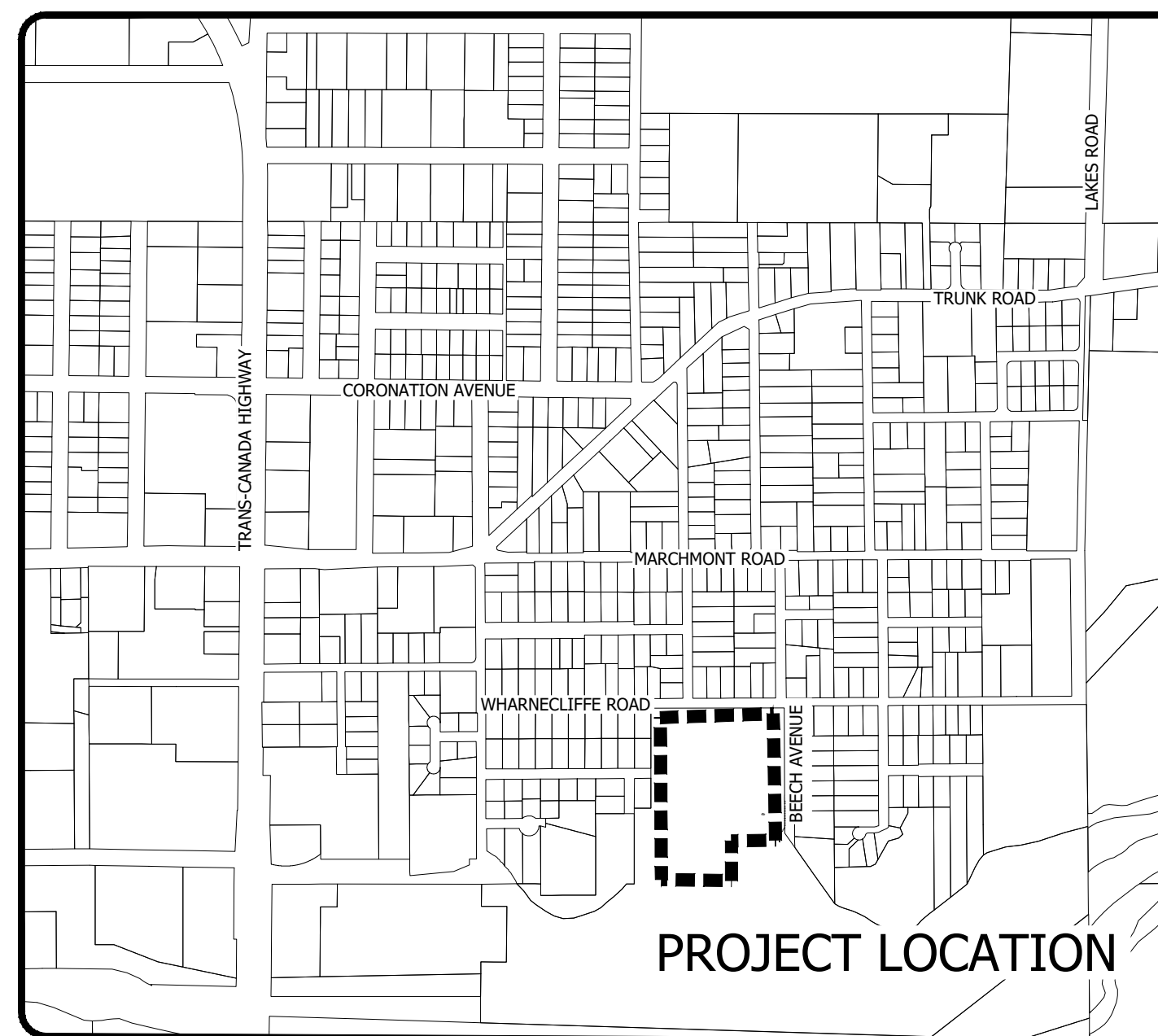
17. ALL CATCH BASIN LEADS ARE TO BE PVC SDR28 UNLESS OTHERWISE NOTED.
18. THE CITY OF DUNCAN ONLY PERMITS LONG RADIUS SWEEP BENDS.

BACKFILL MATERIAL

19. ALL BACKFILL MATERIALS ARE TO BE IN ACCORDANCE WITH MMCD PLATINUM EDITION VOLUME II 2009 CONSTRUCTION SPECIFICATIONS.
20. ALL COMPACTION IS TO BE COMPLETED IN ACCORDANCE WITH MMCD PLATINUM EDITION VOLUME II 2009 CONSTRUCTION SPECIFICATIONS.
21. ALL BACKFILL MATERIAL IS TO BE COMPACTED IN 300mm LIFTS. EACH LIFT IS TO BE COMPACTION TESTED IN 50m INTERVALS.

DRAWING INDEX

- C01 - TITLE SHEET
- C02 - SITE PLAN
- C03 - PLAYGROUND SIDEWALK PLAN & PROFILE
- C04 - NORTH AND SOUTH SIDEWALK PLAN & PROFILE
- C05 - WEST SIDEWALK PLAN & PROFILE
- C06 - WEST SIDEWALK CORRIDOR CROSS SECTIONS
- C07 - PLAYGROUND PLAN & PROFILE
- C08 - DRY WELL PLAN & PROFILE
- C09 - SIDEWALK GRADING PLAN
- C10 - SUBGRADE GRADING PLAN
- C11 - STANDARD DETAILS
- P2022-355-0000A PG1 - WATER FOUNTAIN DETAILS 1
- P2022-355-0000A PG2 - WATER FOUNTAIN DETAILS 2
- P2022-355-0001A - WATER FOUNTAIN DETAILS 3



PROJECT LOCATION

LEGEND	PROPOSED	WATERMAIN BLOW OFF	WATERMAIN CAP	WATERMAIN LINE BREAK	WATERMAIN REDUCER	WATERMAIN COUPLER	FIRE HYDRANT	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE	WATER VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	FIRE HYDRANT	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE	WATER VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	GAS	
	EXISTING	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN
		WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN
		WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN	WATERMAIN

DESIGNED BY: BM	APPROVED BY: BM	SCALE
DRAWN BY: CP	DESIGN START DATE: 11/2022	H2. SCALE: 1:7500
CHECKED BY: CMD	CURRENT DATE: DEC 04 2023	V1. SCALE: N/A

REV#	DATE	DESCRIPTION	REVISIONS	BY
R4	2023/10	DIRT MOUNDS REMOVED + NEW SIDEWALK		CP
R3	2023/08	DIRT MOUNDS		CP
R2	2023/07	WATER FOUNTAIN AND BENCHES		CP
R1	2022/12	WOODCHIPS AND FRENCH DRAIN		CP
R0	2022/11	RUBBER MAT SLOPE DRAINAGE		CP

CITY OF DUNCAN	
	200 CRAIG STREET DUNCAN, BC V8L 3Y2

CITY OF DUNCAN	FILE NUMBER: 2022.027
McADAM PARK PLAYGROUND	SHEET: 1 OF 14
TITLE SHEET	REVISION NO. R4
	DRAWING: C01
	DWG FILE: 2022.027 - R4



PROPOSED		EXISTING	
WATERMAIN	WATERMAIN BLOW OFF	WATERMAIN	WATERMAIN BLOW OFF
WATER METER	WATERMAIN CAP	WATER SERVICE METER	WATER SERVICE METER
WATER VALVE	WATERMAIN LINE BREAK	WATER SERVICE	WATER SERVICE
WATERMAIN REDUCER	STORM MAIN	WATER VALVE	WATER VALVE
WATERMAIN COUPLER	STORM CLEANOUT	WATERMAIN REDUCER	WATERMAIN REDUCER
FIRE HYDRANT	STORM SERVICE	WATERMAIN COUPLER	WATERMAIN COUPLER
ARV	CATCH BASIN	GAS	GAS
STORM MANHOLE	STORM CAP	ARV	FIRE HYDRANT
SANITARY LINE BREAK	SANITARY MANHOLE	CATCH BASIN	LINE BREAK
SANITARY SERVICE	CONCRETE	WATER SERVICE	WATER SERVICE
INLET/OUTLET/HEADWALL	SANITARY MAIN	WATER VALVE	WATER VALVE
GUTTER LINE	ELEVATION	WATERMAIN BLOW OFF	WATERMAIN BLOW OFF
GRADE		WATER SERVICE	WATER SERVICE
		WATER VALVE	WATER VALVE
		WATERMAIN REDUCER	WATERMAIN REDUCER
		WATERMAIN COUPLER	WATERMAIN COUPLER
		GAS	GAS

WATERMAIN	ARV	CATCH BASIN	LINE BREAK
WATER SERVICE METER	FIRE HYDRANT	SANITARY MAIN	FENCE
WATER SERVICE	WATERMAIN BLOW OFF	SANITARY SERVICE	UTILITY POLE AND ANCHOR
WATER VALVE	STORM MAIN	MANHOLE	SIGN
WATERMAIN REDUCER	STORM SERVICE	CLEANOUT	GUTTER LINE
WATERMAIN COUPLER	INLET/OUTLET/HEADWALL	CAP	WATER COURSE
GAS	BC HYDRO	TELUS	SCALE OF LEDGEND: NTS

DESIGNED BY:	BM	APPROVED BY:	BM	SCALE	1:200
DRAWN BY:	CF	DESIGN START DATE:	11/2022	H2. SCALE:	N/A
CHECKED BY:	CMD	CURRENT DATE:	DEC 04 2023	V1. SCALE:	N/A
REV#	DATE	DESCRIPTION	REVISIONS	BY	
R4	2023/10	DIRT MOUNDS REMOVED + NEW SIDEWALK		CF	
R3	2023/08	DIRT MOUNDS		CF	
R2	2023/07	WATER FOUNTAIN AND BENCHES		CF	
R1	2022/12	WOODCHIPS AND FRENCH DRAIN		CF	
R0	2022/11	RUBBER MAT SLOPE DRAINAGE		CF	

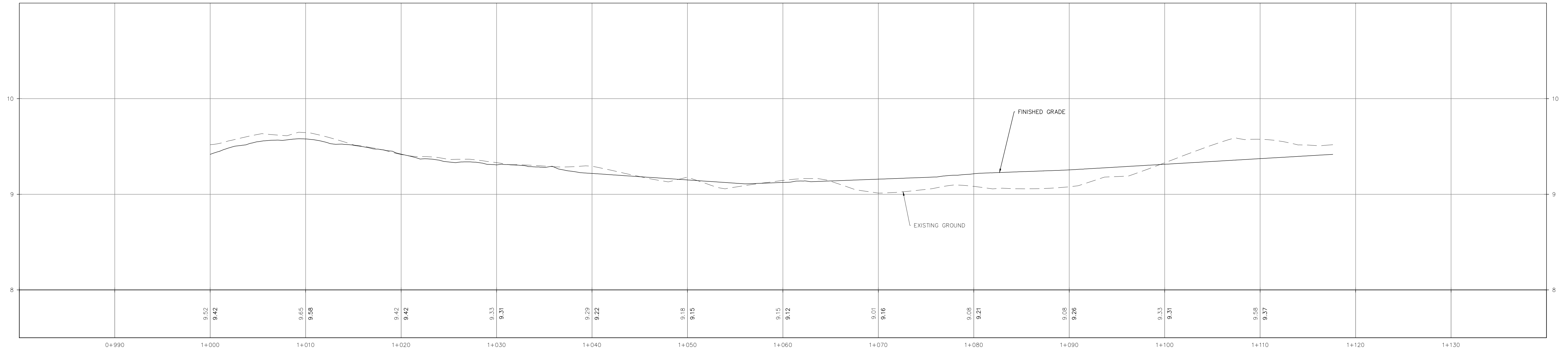
CITY OF DUNCAN	200 CRAIG STREET DUNCAN, BC V8L 3Y2
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CITY OF DUNCAN	McADAM PARK PLAYGROUND
SITE PLAN	

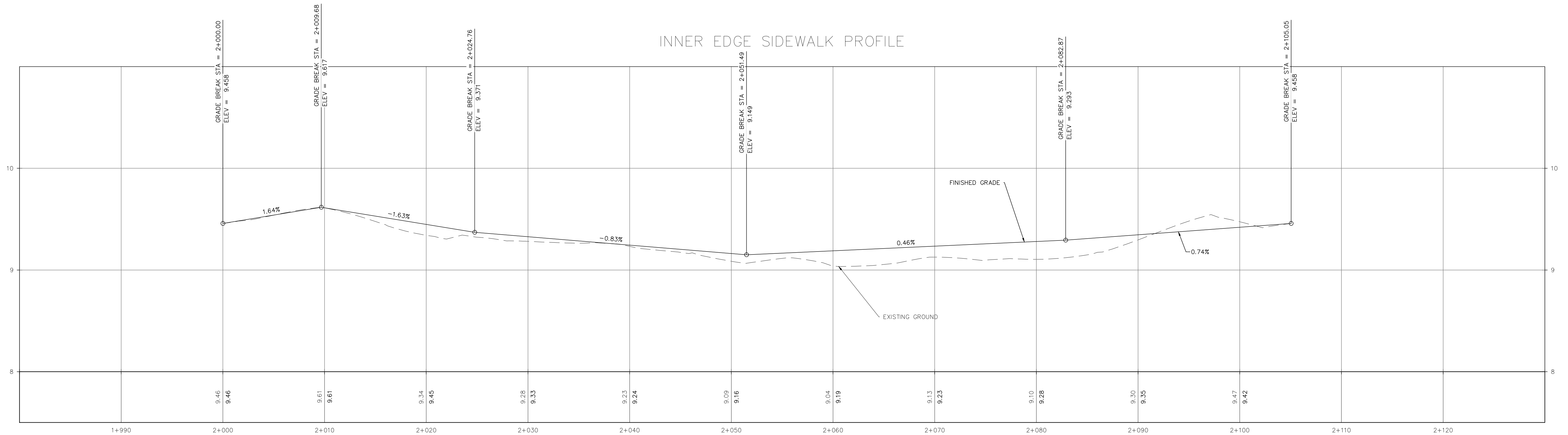
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SHEET:	2 OF 13
REVISION NO.	R4
DRAWING:	C02
DWG FILE:	2022.027 - R4

C:\Users\jduffy\OneDrive - City of Duncan\2022-2023\2022-027 - McAdam Park Playground - Site Plan - R4.dwg - 11/21/2023 10:58:10 AM

OUTER EDGE SIDEWALK PROFILE




INNER EDGE SIDEWALK PROFILE



LEGEND	PROPOSED	WATERMAIN	WATERMAIN BLOW OFF	STORM MANHOLE	SANITARY LINE BREAK
	WATER SERVICE	WATERMAIN CAP	WATERMAIN LINE BREAK	WATERMAIN REDUCER	WATERMAIN COUPLER
EXISTING	WATERMAIN	ARV	CATCH BASIN	LINE BREAK	WATER SERVICE METER
	WATER SERVICE	FIRE HYDRANT	SANITARY MAIN	FENCE	UTILITY POLE AND ANCHOR
		WATERMAIN BLOW OFF	SANITARY SERVICE	MANHOLE	SIGN
		WATERMAIN VALVE	STORM MAIN	CLEANOUT	GUTTER LINE
		WATERMAIN REDUCER	STORM SERVICE	CAP	WATER COURSE
		WATERMAIN COUPLER	INLET/OUTLET/HEADWALL	TELUS	SCALE OF LEGGEND: NTS
		ARV	SANITARY CAP	GRADE	

DESIGNED BY: BM APPROVED BY: BM
 DRAWN BY: CP DESIGN START DATE: 11/2022
 CHECKED BY: CMD CURRENT DATE: DEC 04 2023

SCALE
 H2. SCALE: 1:200
 V1. SCALE: 1:20



CITY OF DUNCAN
 200 CRAIG STREET
 DUNCAN, BC
 V9L 3Y2

CITY OF DUNCAN
 McADAM PARK
 PLAYGROUND

PLAYGROUND SIDEWALK
 PLAN AND PROFILE

FILE NUMBER: 2022.027

SHEET: 3 OF 14

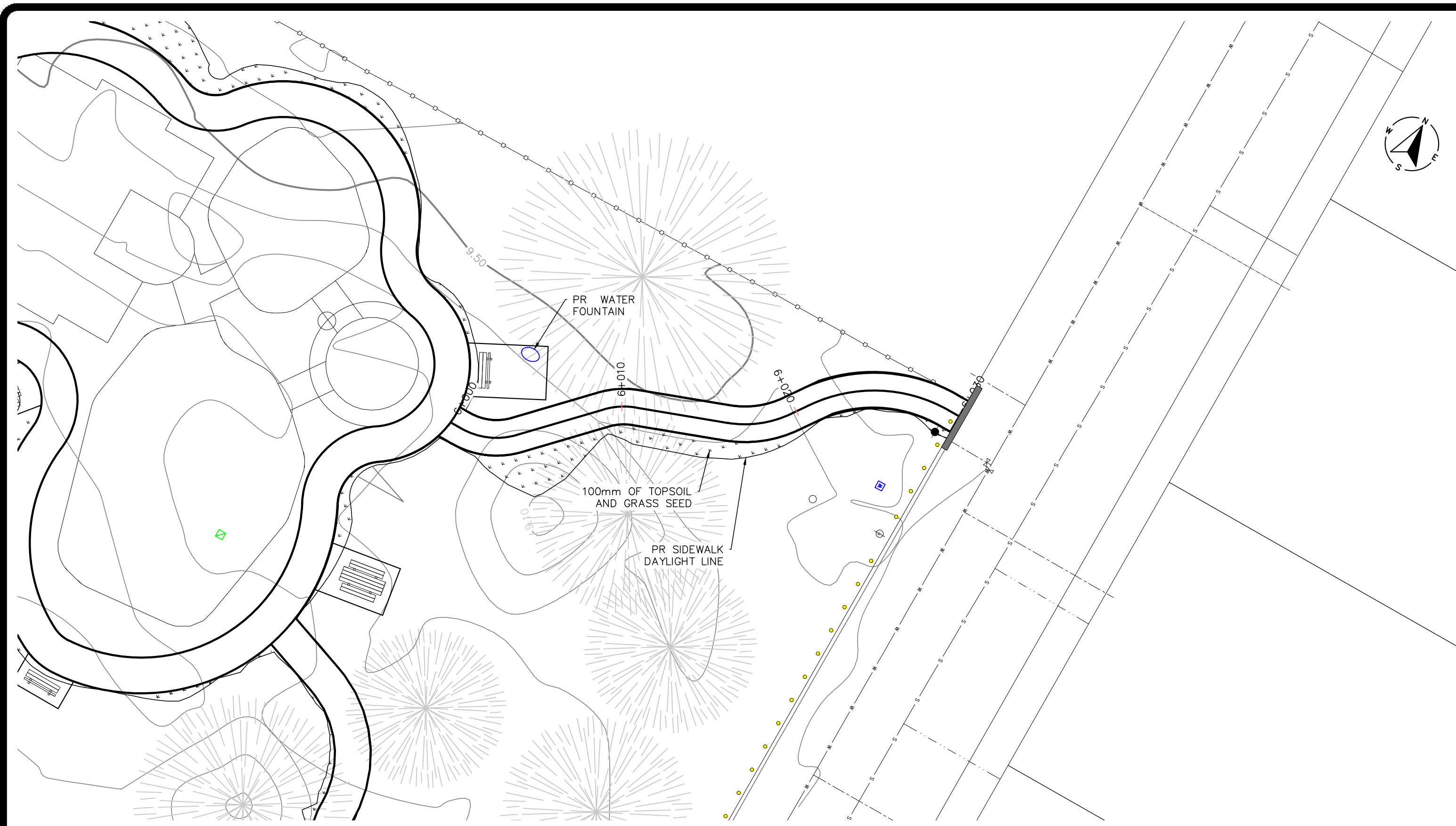
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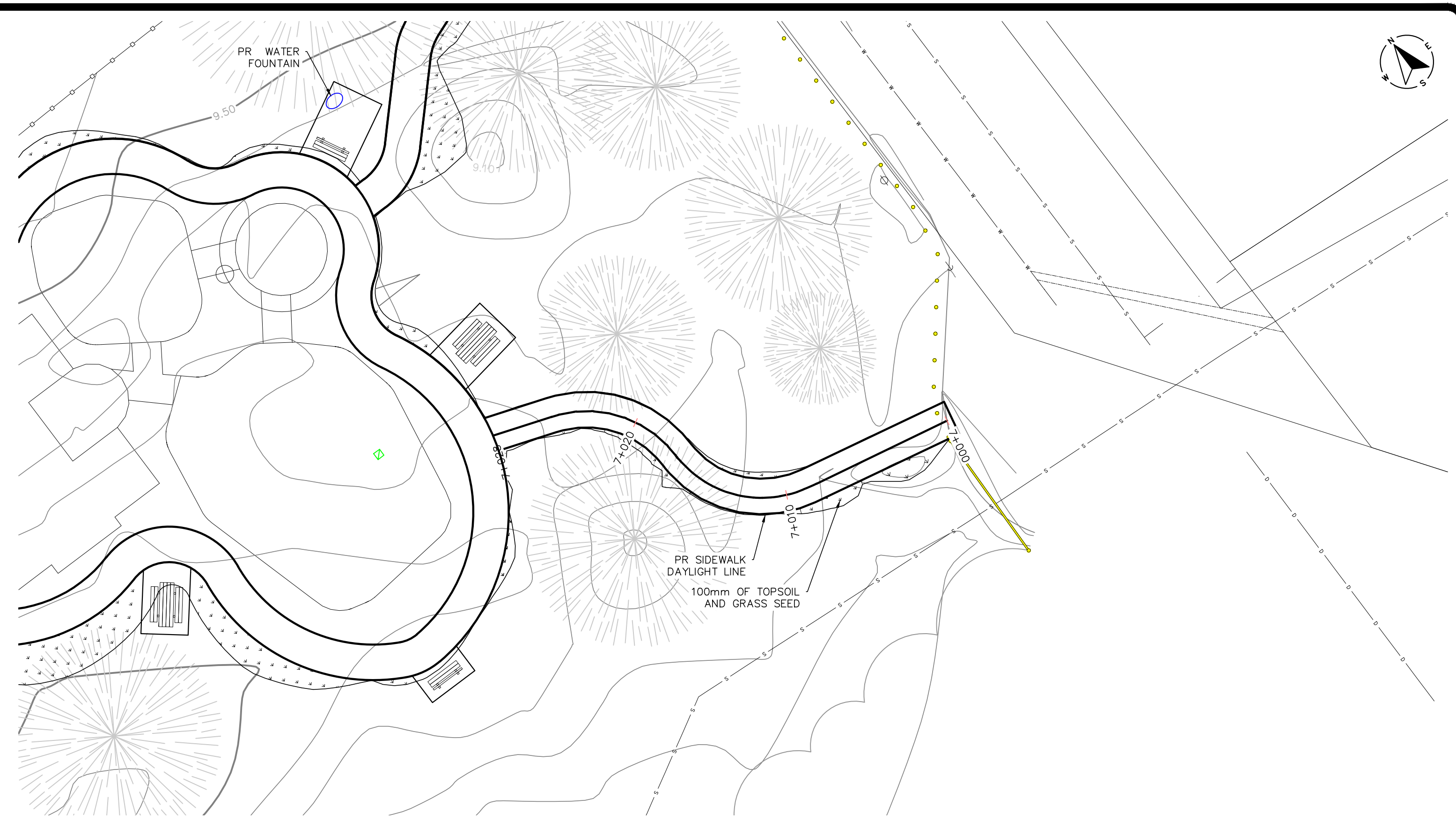
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REV#	DATE	DESCRIPTION	BY
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R3	2023/08	DIRT MOUNDS	CP
R2	2023/07	WATER FOUNTAIN AND BENCHES	CP
R1	2022/12	WOODCHIPS AND FRENCH DRAIN	CP
R0	2022/11	RUBBER MAT SLOPE DRAINAGE	CP

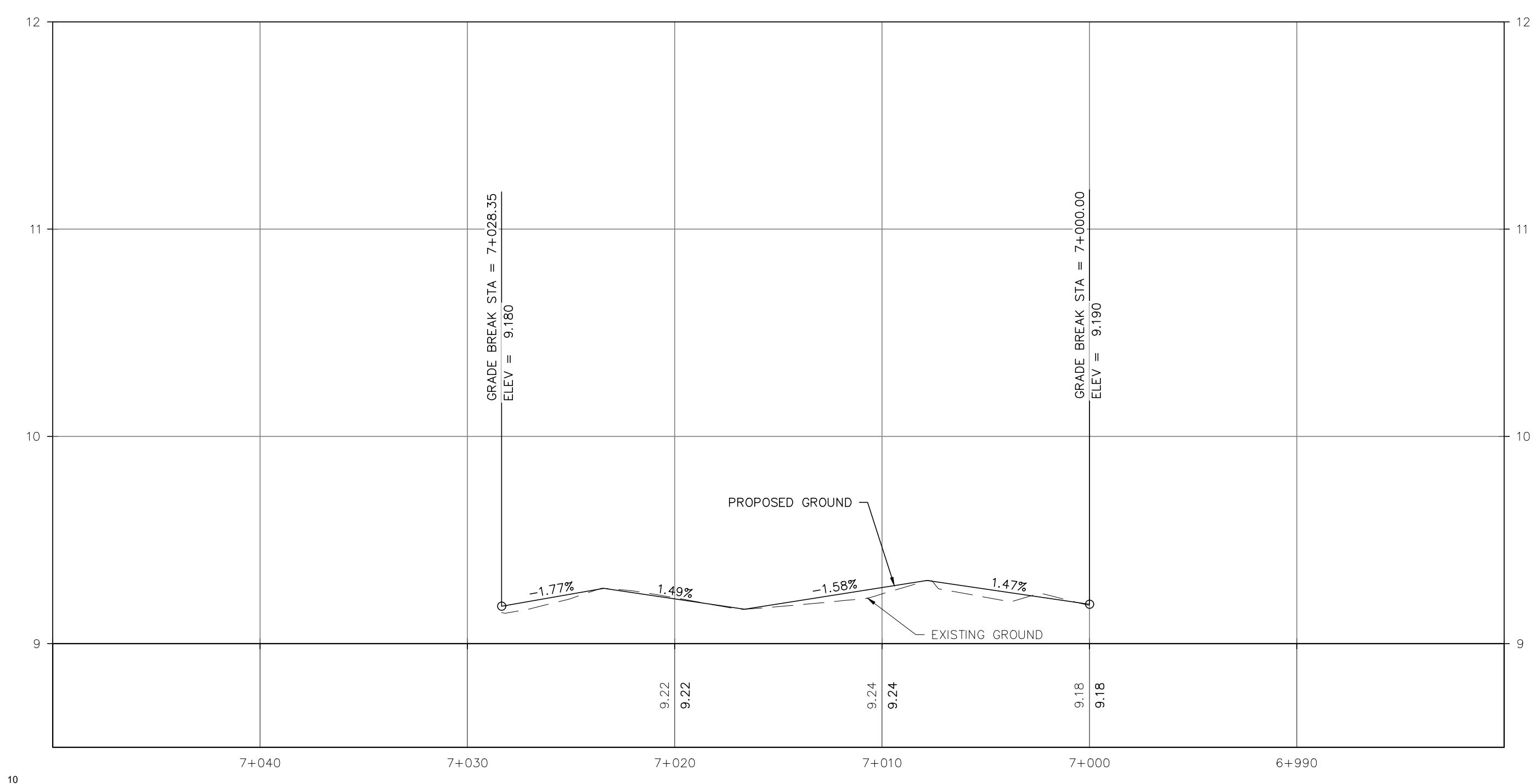
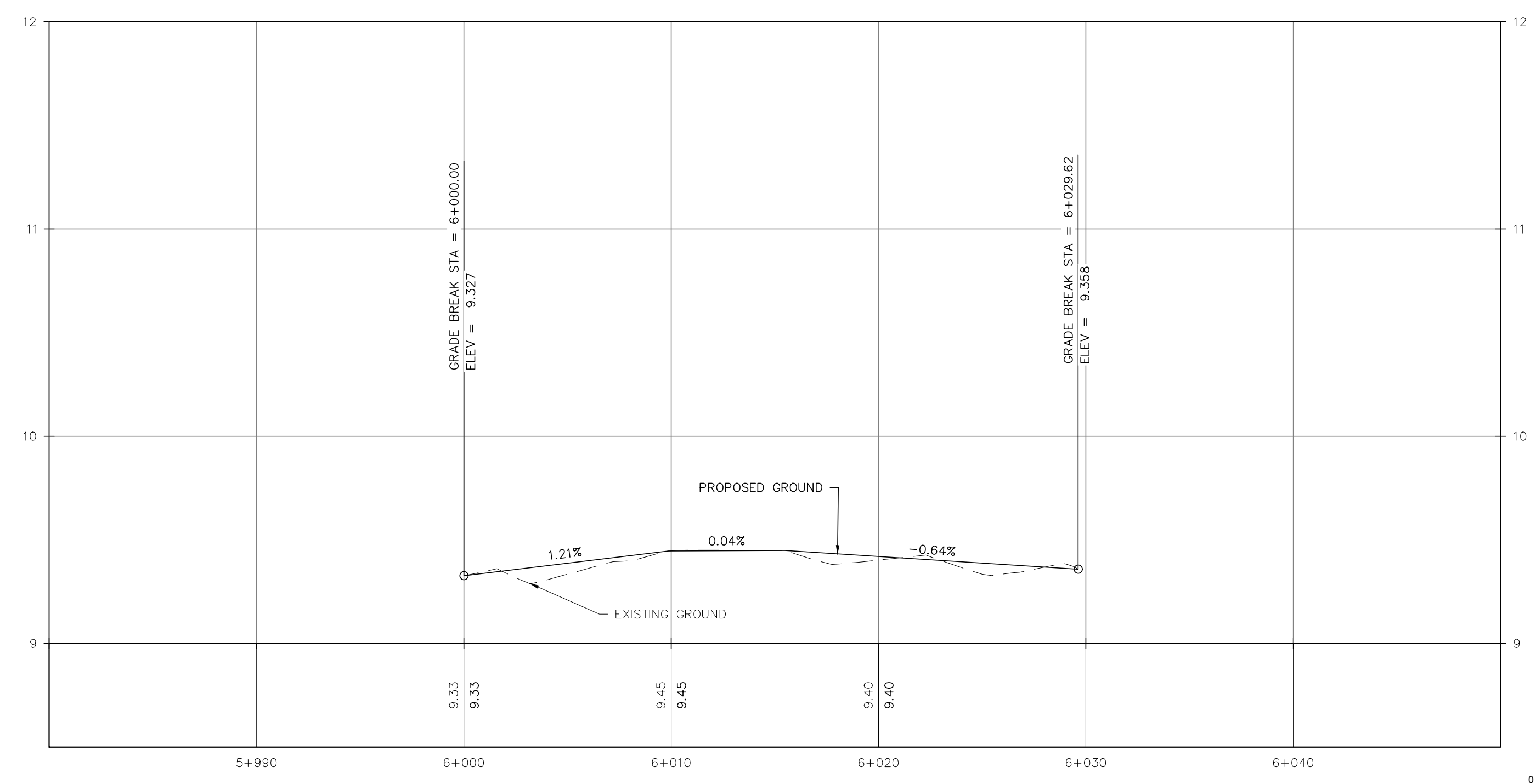
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NORTH PLAYGROUND SIDEWALK PROFILE



SOUTH PLAYGROUND SIDEWALK PROFILE



LEGEND	PROPOSED				EXISTING			
	Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description
PROPOSED	—	WATERMAIN	—	WATERMAIN BLOW OFF	—	WATERMAIN	—	WATERMAIN BLOW OFF
	□	WATER SERVICE	□	WATERMAIN CAP	□	WATER SERVICE METER	□	WATER SERVICE METER
	—	WATER VALVE	—	WATERMAIN LINE BREAK	—	WATER SERVICE VALVE	—	WATER SERVICE VALVE
	—	WATERMAIN REDUCER	—	STORM MAIN	—	WATERMAIN REDUCER	—	WATERMAIN REDUCER
	—	WATERMAIN COUPLER	—	STORM CLEANOUT	—	WATERMAIN COUPLER	—	WATERMAIN COUPLER
	—	FIRE HYDRANT	—	STORM SERVICE	—	FIRE HYDRANT	—	FIRE HYDRANT
	—	ARV	—	CATCH BASIN	—	ARV	—	ARV
	—	WATERMAIN	—	STORM MANHOLE	—	WATERMAIN	—	WATERMAIN
	—	WATER SERVICE	—	STORM CAP	—	WATER SERVICE	—	WATER SERVICE
	—	WATER VALVE	—	STORM LINE BREAK	—	WATER VALVE	—	WATER VALVE
EXISTING	—	WATERMAIN	—	WATERMAIN BLOW OFF	—	WATERMAIN	—	WATERMAIN BLOW OFF
	—	WATER SERVICE	—	WATERMAIN CAP	—	WATER SERVICE	—	WATER SERVICE
	—	WATER VALVE	—	WATERMAIN LINE BREAK	—	WATER VALVE	—	WATER VALVE
	—	WATERMAIN REDUCER	—	STORM MAIN	—	WATERMAIN REDUCER	—	WATERMAIN REDUCER
	—	WATERMAIN COUPLER	—	STORM CLEANOUT	—	WATERMAIN COUPLER	—	WATERMAIN COUPLER
	—	FIRE HYDRANT	—	STORM SERVICE	—	FIRE HYDRANT	—	FIRE HYDRANT
	—	ARV	—	CATCH BASIN	—	ARV	—	ARV
	—	WATERMAIN	—	STORM MANHOLE	—	WATERMAIN	—	WATERMAIN
	—	WATER SERVICE	—	STORM CAP	—	WATER SERVICE	—	WATER SERVICE
	—	WATER VALVE	—	STORM LINE BREAK	—	WATER VALVE	—	WATER VALVE

DESIGNED BY: BM	APPROVED BY: BM	SCALE
DRAWN BY: CP	DESIGN START DATE: 11/2022	H2. SCALE: 1:200
CHECKED BY: CMD	CURRENT DATE: DEC 04 2023	V1. SCALE: 1:20

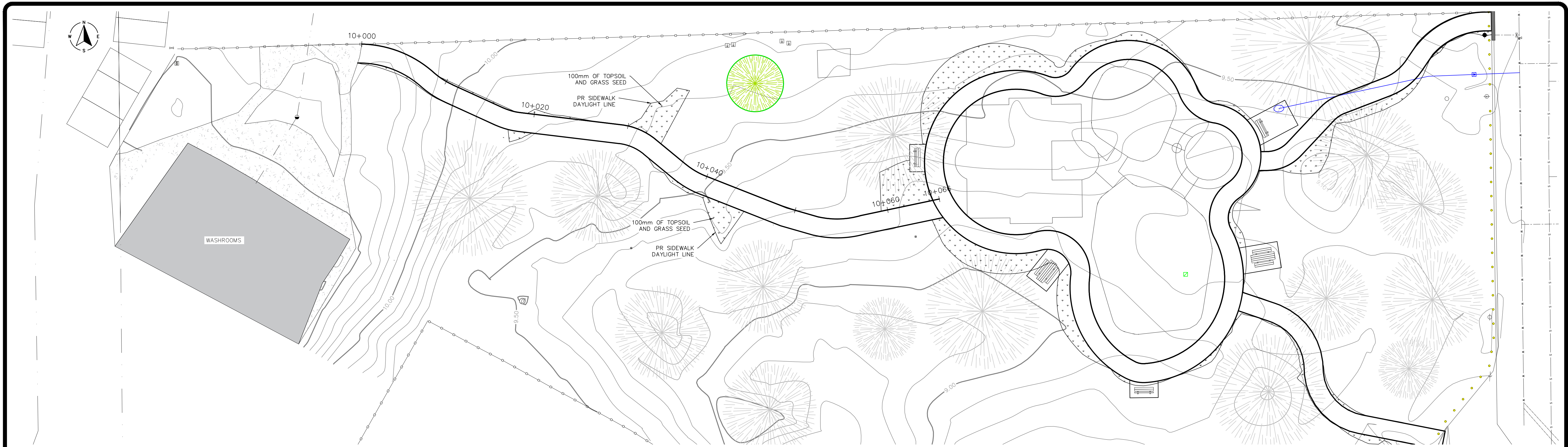
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R3	2023/08	DIRT MOUNDS	CP
R2	2023/07	WATER FOUNTAIN AND BENCHES	CP
R1	2022/12	WOODCHIPS AND FRENCH DRAIN	CP
R0	2022/11	RUBBER MAT SLOPE DRAINAGE	CP

CITY OF DUNCAN
 200 CRAIG STREET
 DUNCAN, BC
 V8L 3Y2

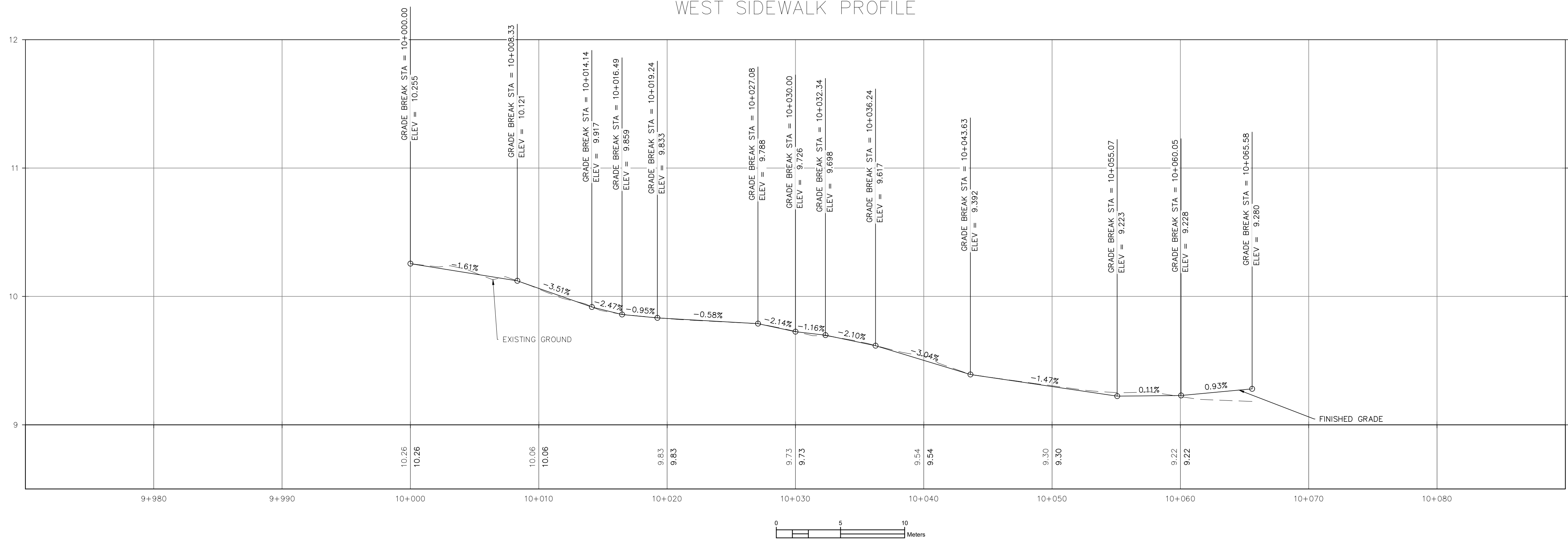
CITY OF DUNCAN
 McADAM PARK
 PLAYGROUND
 NORTH AND SOUTH
 SIDEWALK PLAN & PROFILE

FILE NUMBER:	2022.027
SHEET:	4 OF 14
REVISION NO.	R4
DRAWING:	C04
DWG FILE:	2022.027 - R4

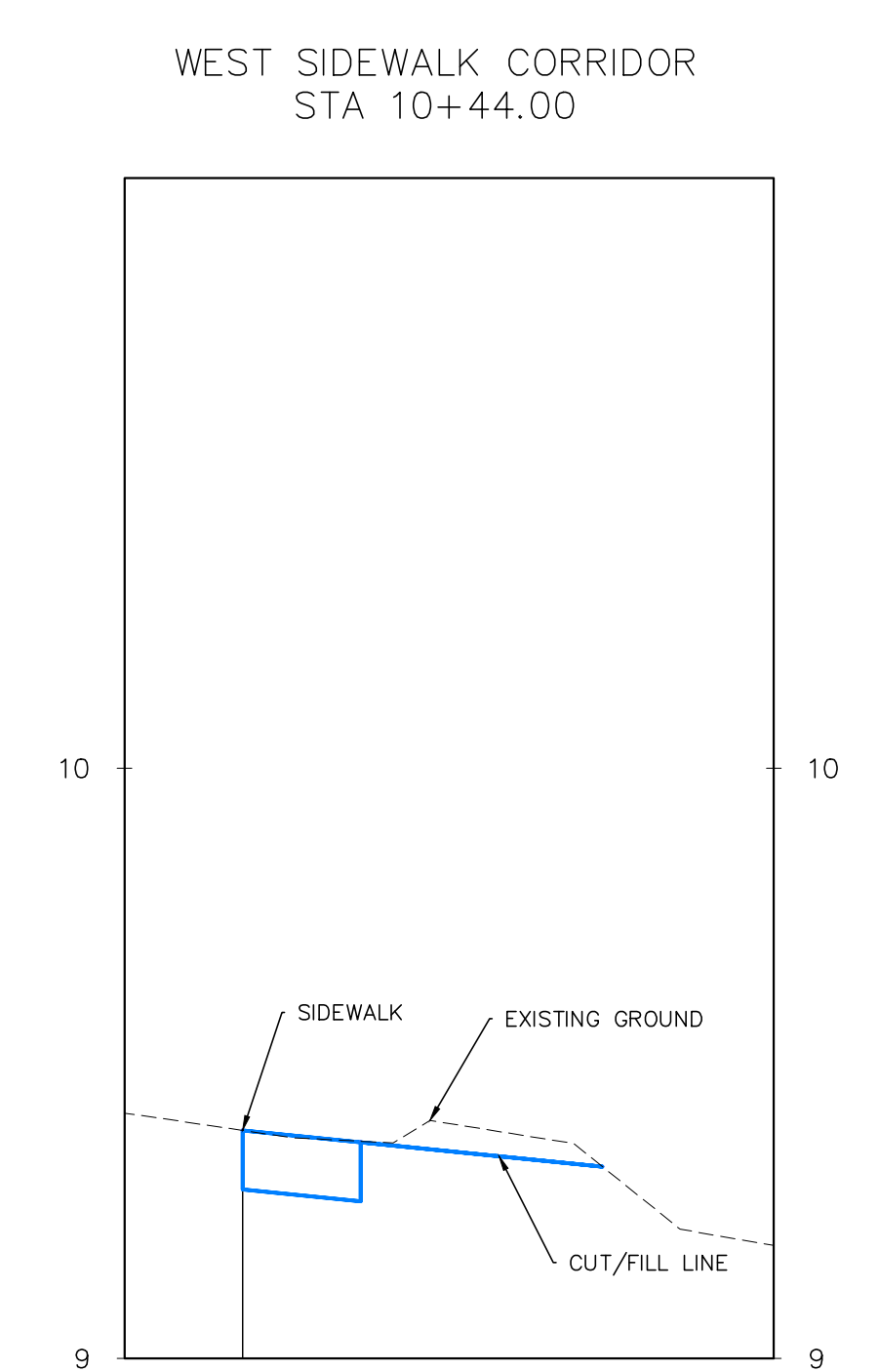
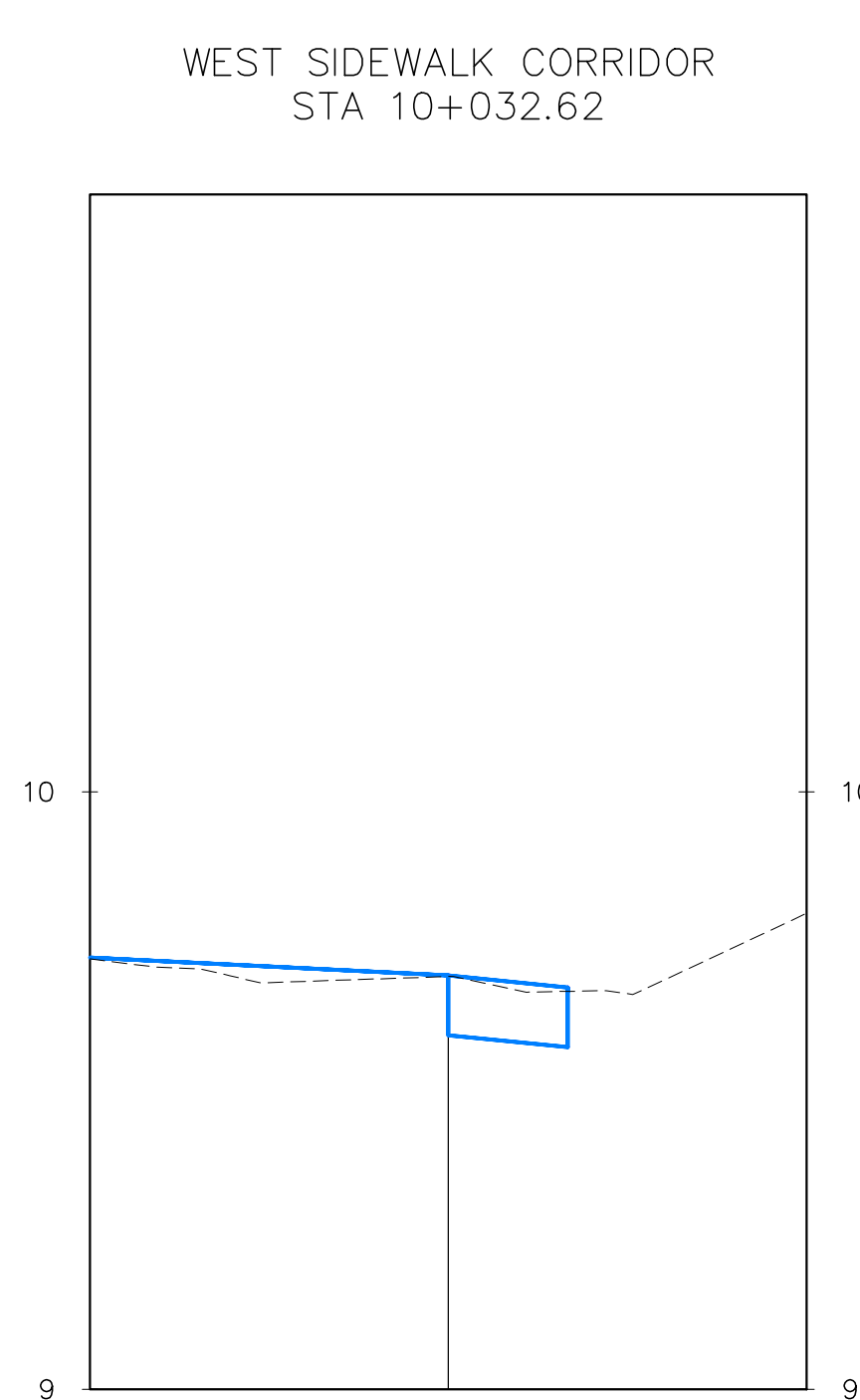
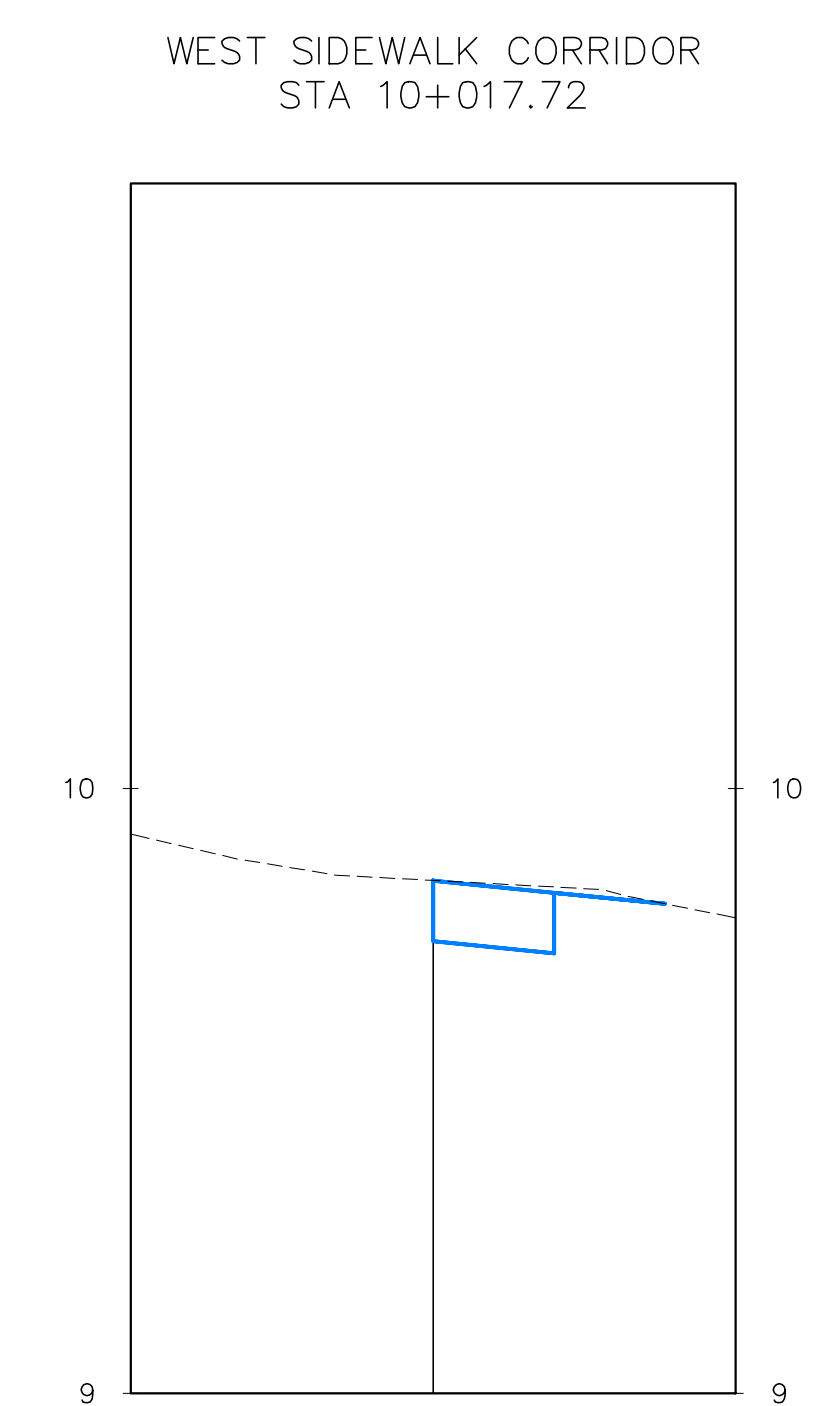
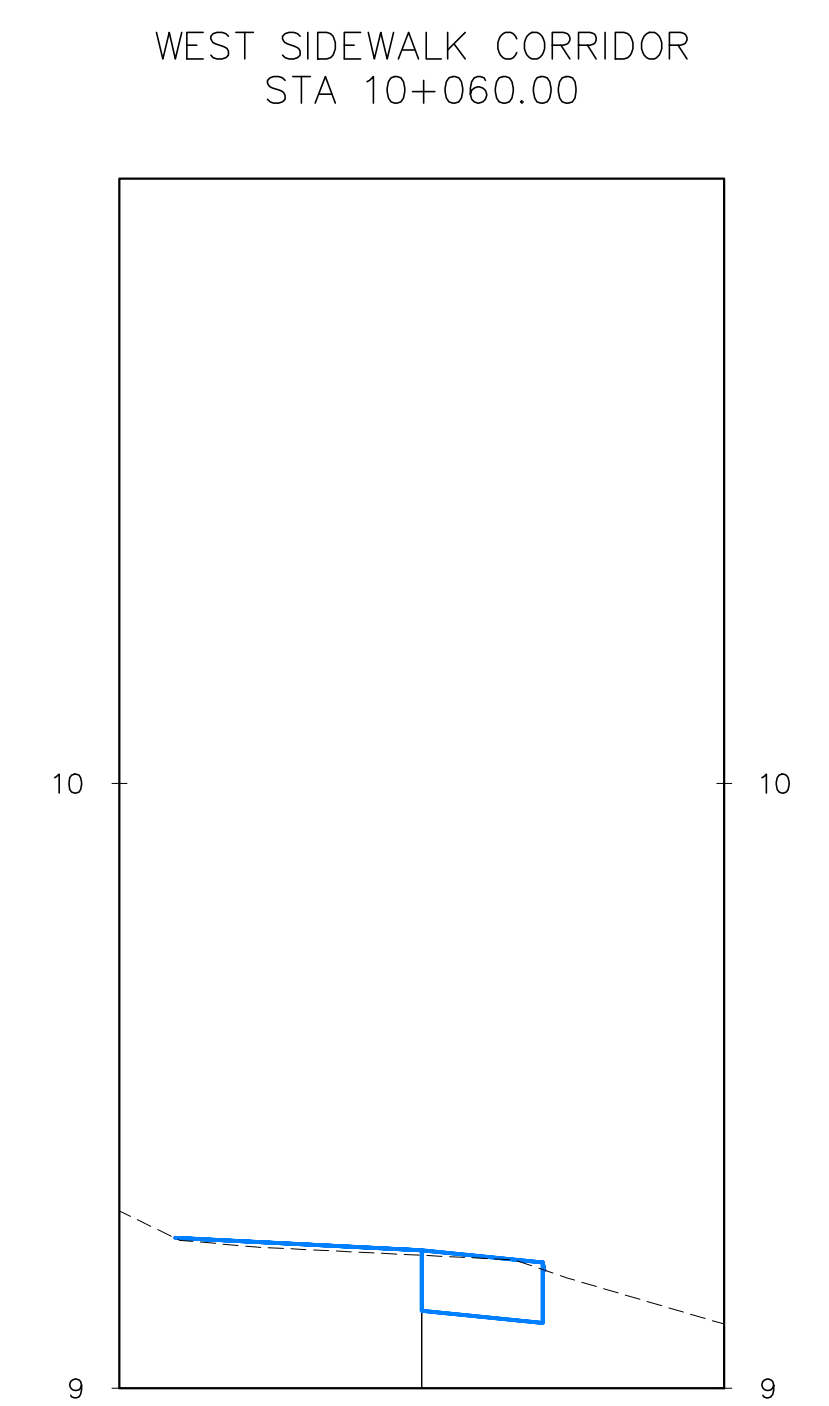
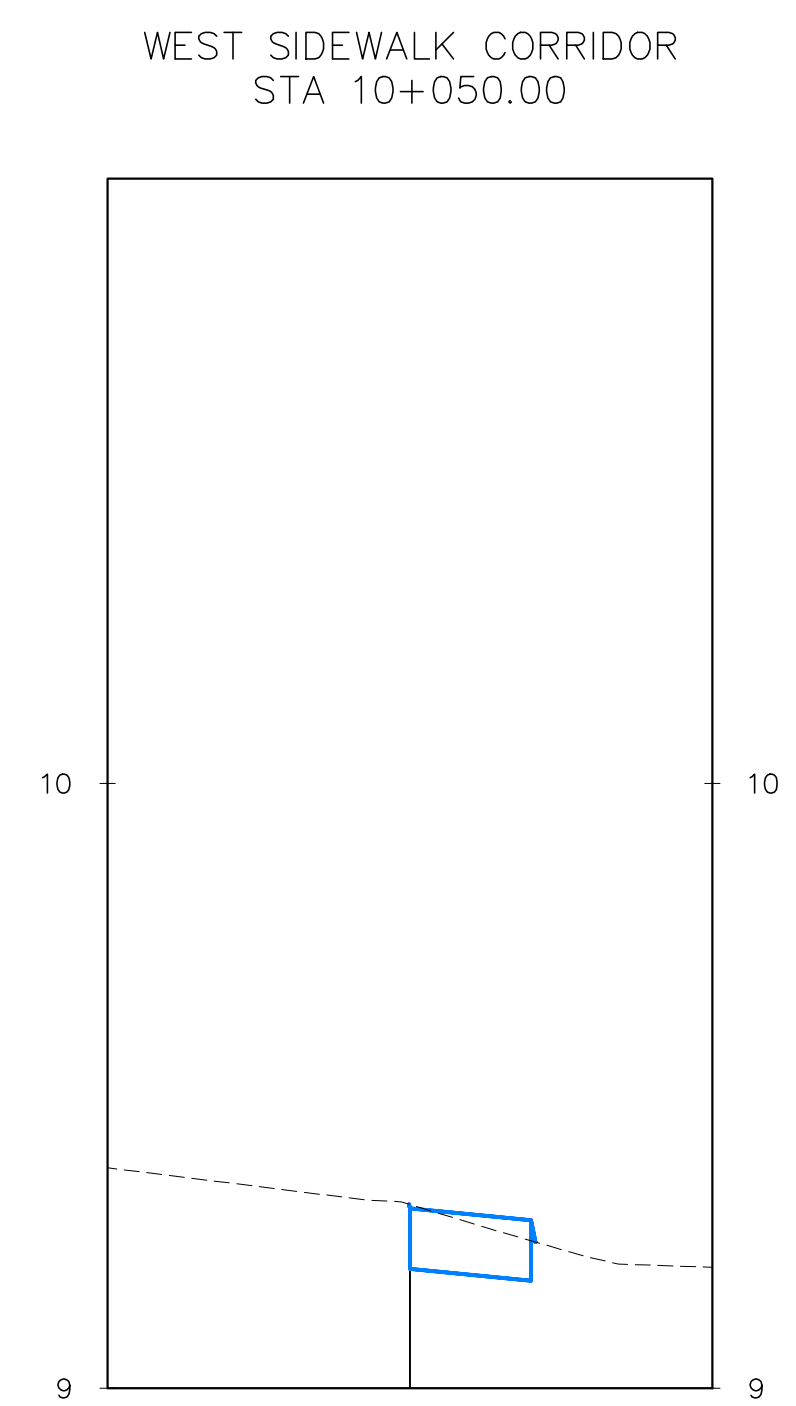
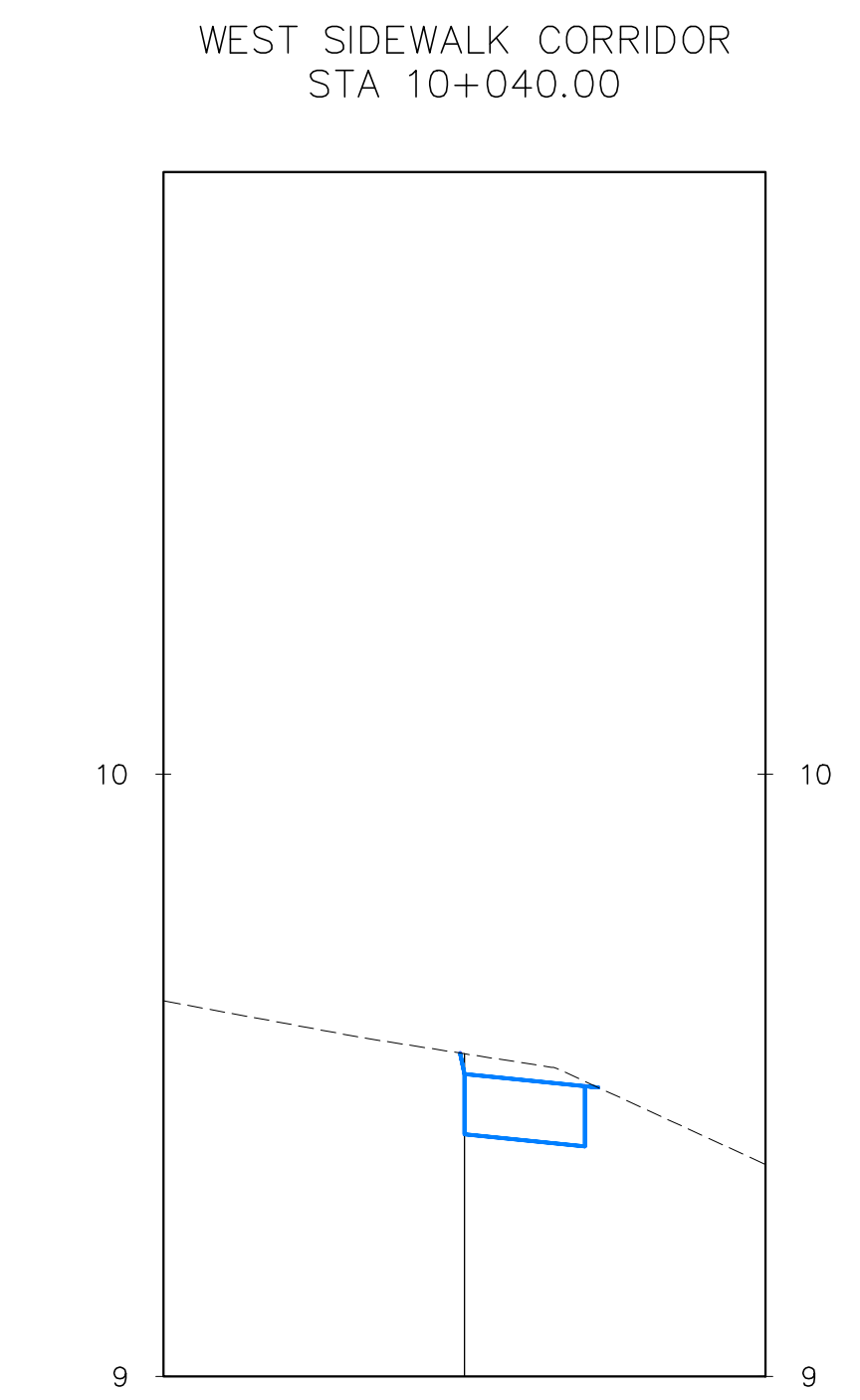
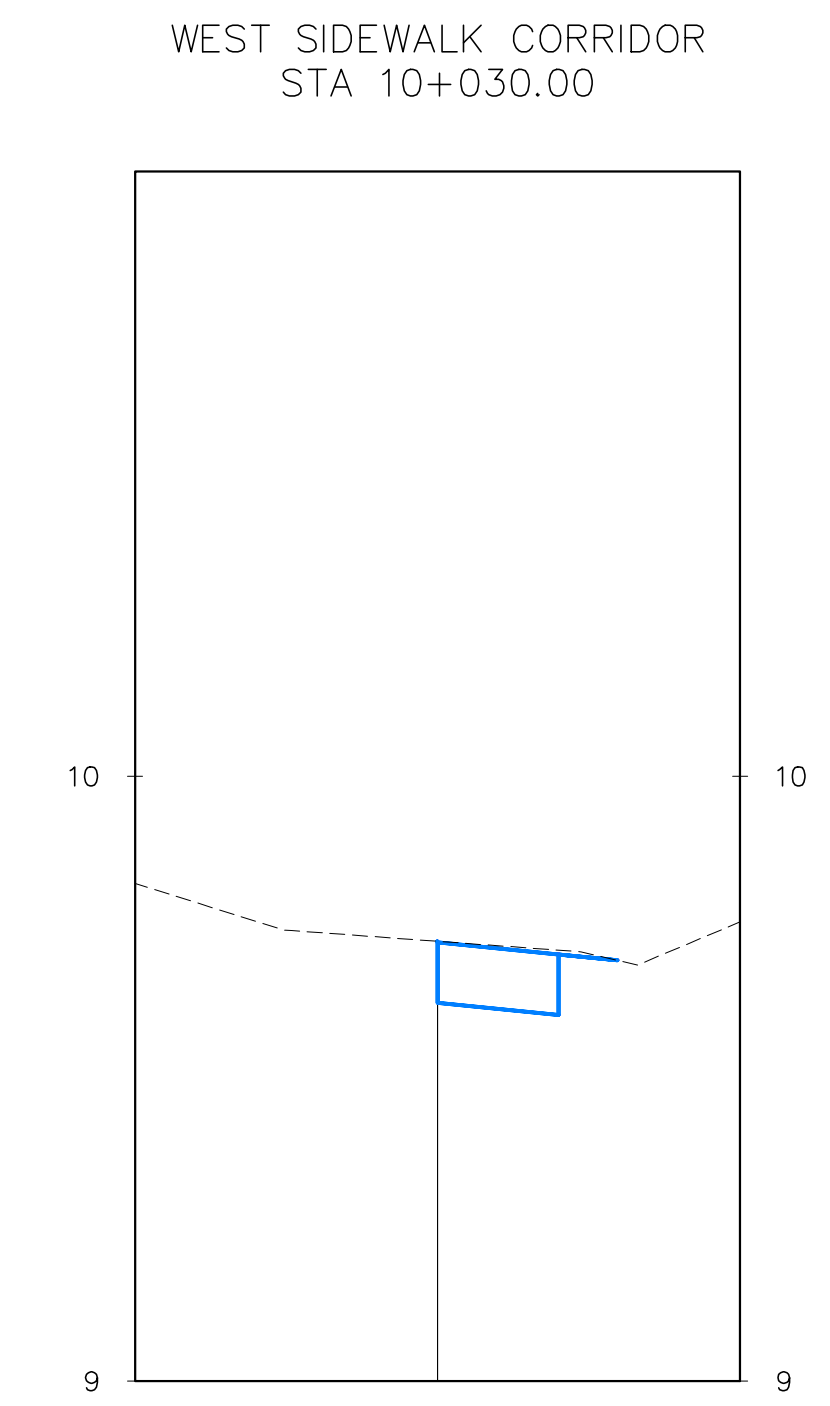
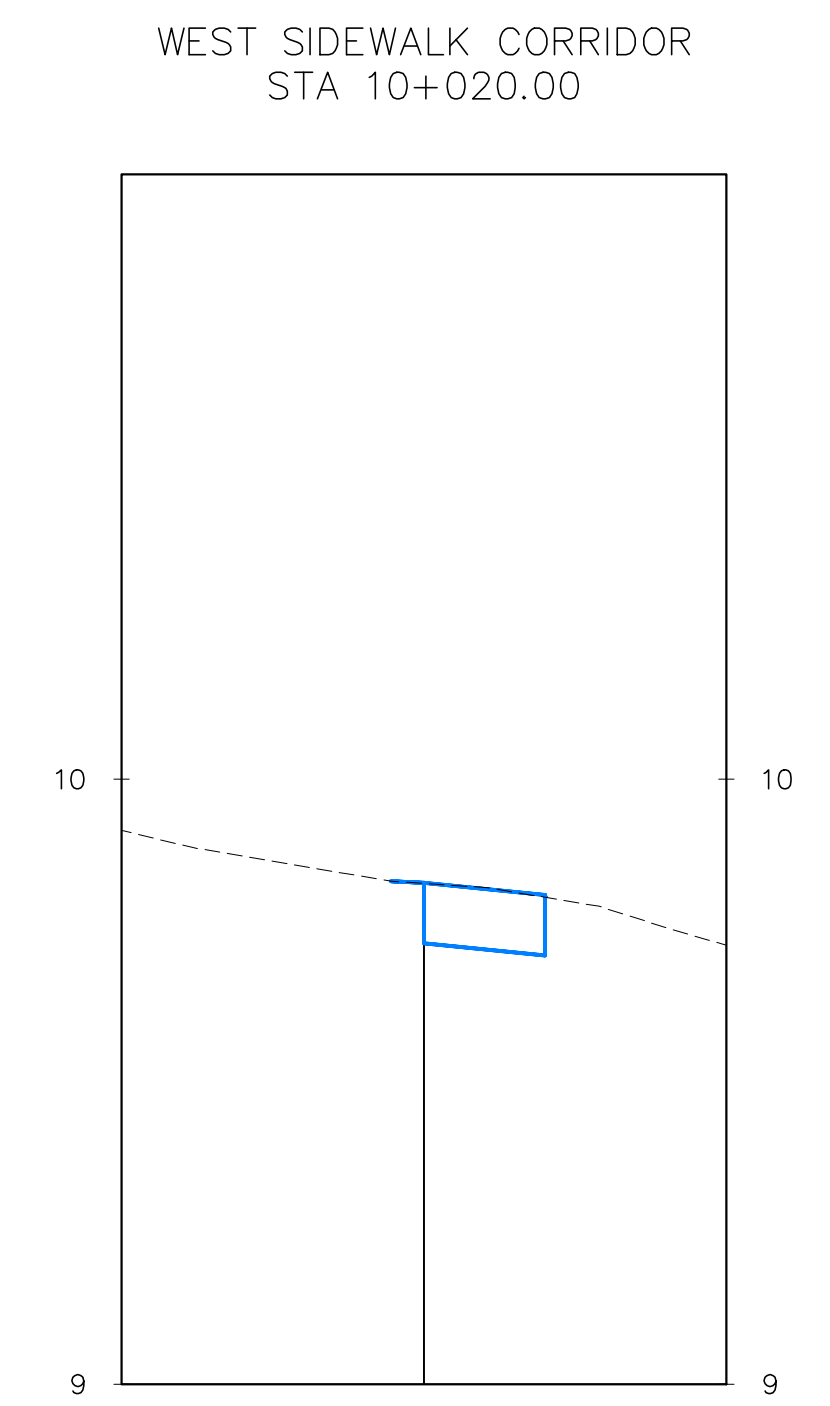
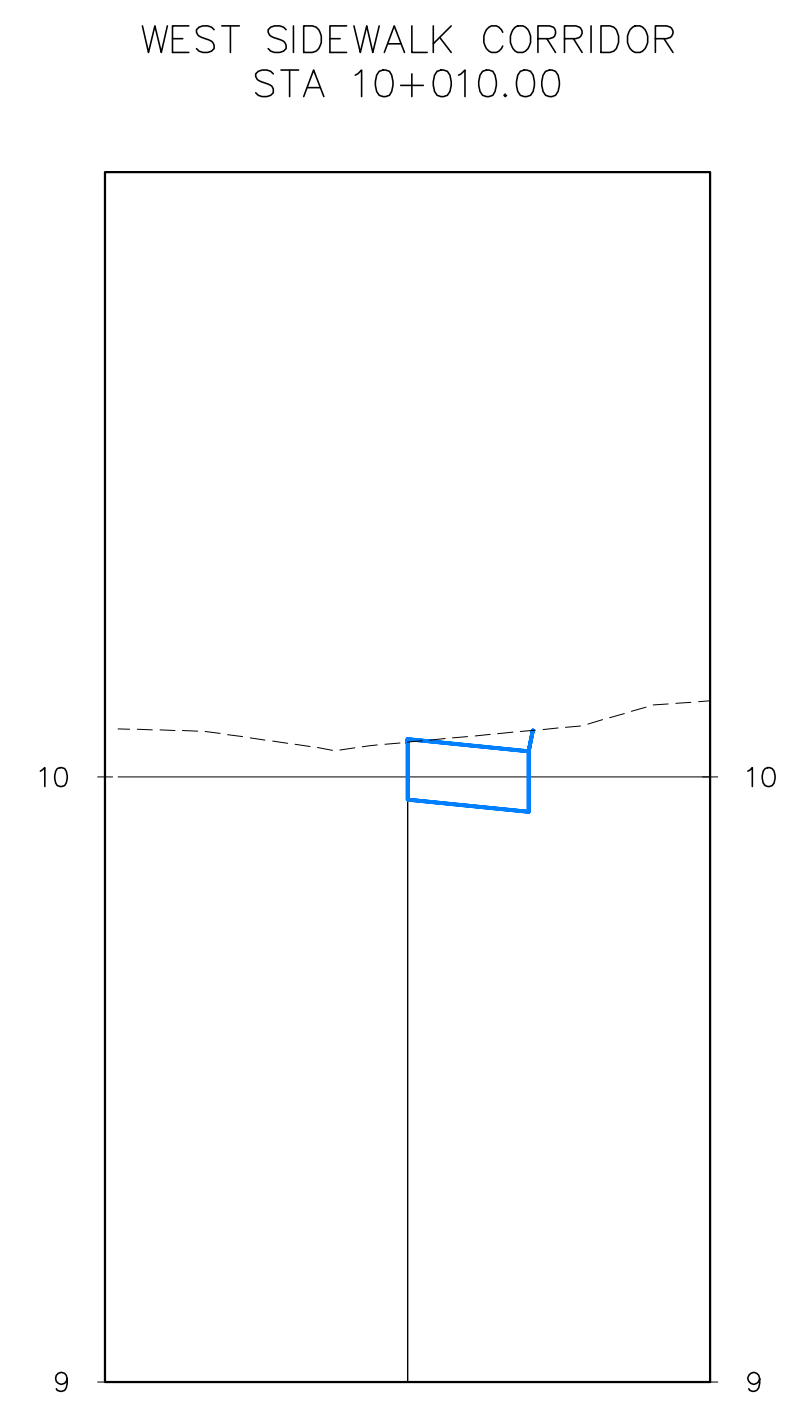
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WEST SIDEWALK PROFILE



LEGEND	PROPOSED	WATERMAIN	WATERMAIN BLOW OFF	WATER SERVICE	WATER VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	FIRE HYDRANT	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	DESIGNED BY: BM	APPROVED BY: BM	SCALE	CITY OF DUNCAN 200 CRAIG STREET DUNCAN, BC V8L 3Y2	CITY OF DUNCAN MCADAM PARK PLAYGROUND WEST SIDEWALK PLAN & PROFILE	FILE NUMBER: 2022.027
	EXISTING	WATERMAIN	WATERMAIN CAP	WATERMAIN LINE BREAK	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	CHECKED BY: CMD	DESIGN START DATE: 11/2022	CURRENT DATE: DEC 04 2023	H2. SCALE: 1:200			VI. SCALE: 1:20
		WATERMAIN	WATERMAIN CAP	WATERMAIN LINE BREAK	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	REV#	DATE	DESCRIPTION	REVISIONS	BY	DWG FILE: 2022.027 - R4	
		WATERMAIN	WATERMAIN CAP	WATERMAIN LINE BREAK	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	R4	2023/10	DIRT MOUNDS REMOVED + NEW SIDEWALK	CP			
		WATERMAIN	WATERMAIN CAP	WATERMAIN LINE BREAK	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	R3	2023/08	DIRT MOUNDS	CP			
		WATERMAIN	WATERMAIN CAP	WATERMAIN LINE BREAK	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	R2	2023/07	WATER FOUNTAIN AND BENCHES	CP			
		WATERMAIN	WATERMAIN CAP	WATERMAIN LINE BREAK	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	R1	2022/12	WOODCHIPS AND FRENCH DRAIN	CP			
		WATERMAIN	WATERMAIN CAP	WATERMAIN LINE BREAK	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	WATERMAIN	WATER SERVICE METER	WATER SERVICE VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	ARV	R0	2022/11	RUBBER MAT SLOPE DRAINAGE	CP			



LEGEND	PROPOSED				EXISTING			
	WATERMAIN	WATERMAIN BLOW OFF	STORM MANHOLE	SANITARY LINE BREAK	WATERMAIN	ARV	CATCH BASIN	LINE BREAK
	WATER SERVICE	WATERMAIN CAP	STORM CAP	SANITARY MANHOLE	WATER SERVICE METER	FIRE HYDRANT	SANITARY MAIN	FENCE
	WATER VALVE	WATERMAIN LINE BREAK	STORM LINE BREAK	SANITARY SERVICE	WATER SERVICE	WATERMAIN BLOW OFF	SANITARY SERVICE	UTILITY POLE AND ANCHOR
	WATERMAIN REDUCER	STORM MAIN	INLET/OUTLET/HEADWALL	CONCRETE	WATER VALVE	STORM MAIN	MANHOLE	SIGN
	WATERMAIN COUPLER	STORM CLEANOUT	SANITARY MAIN	GUTTER LINE	WATERMAIN REDUCER	STORM SERVICE	CLEANOUT	GUTTER LINE
	FIRE HYDRANT	STORM SERVICE	SANITARY CLEANOUT	ELEVATION	WATERMAIN COUPLER	INLET/OUTLET/HEADWALL	CAP	WATER COURSE
	ARV	CATCH BASIN	SANITARY CAP	GRADE	GAS	BC HYDRO	TELUS	SCALE OF LEGGEND: NTS

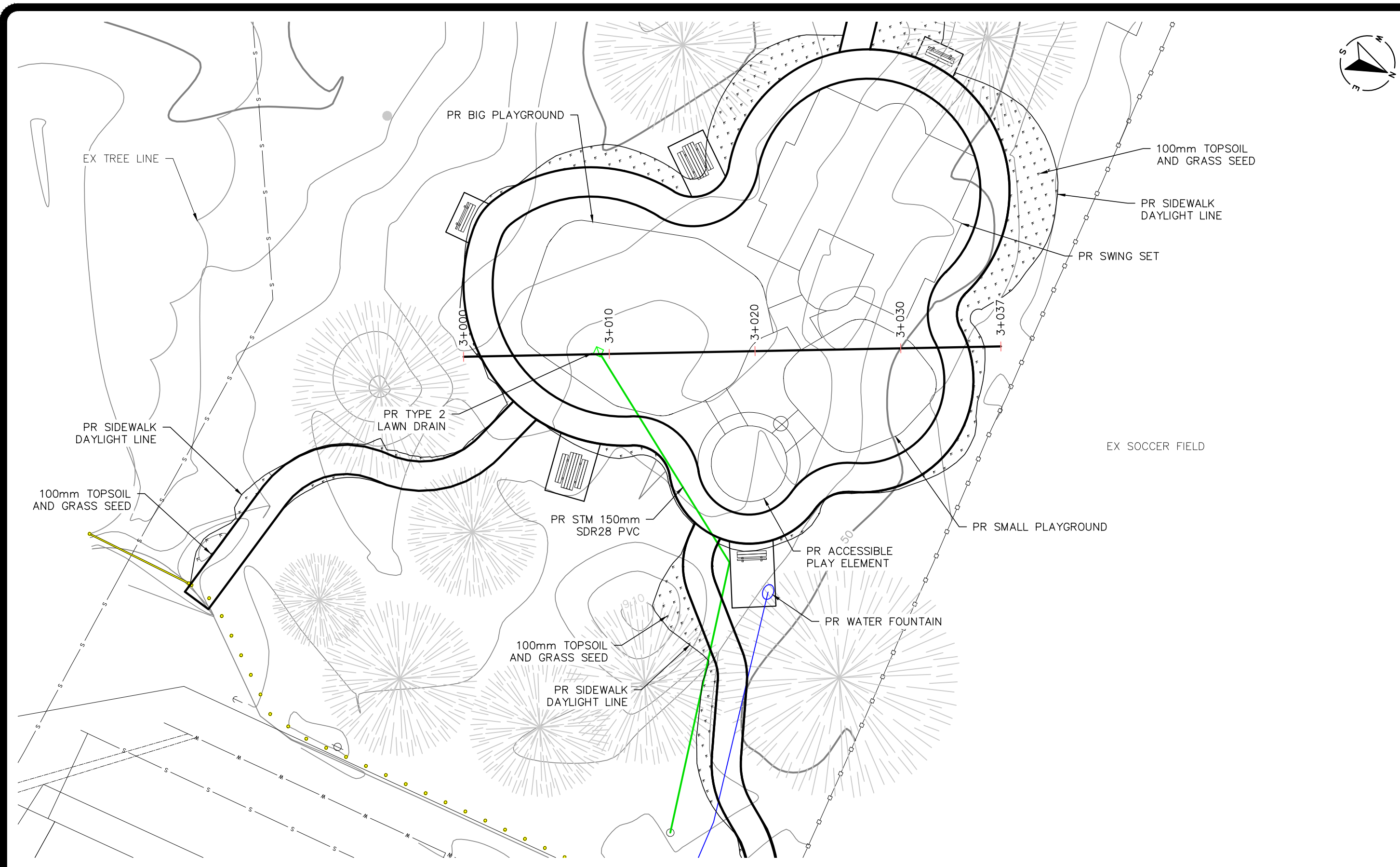
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REV#	DATE	DESCRIPTION	REVISIONS	BY
R4	2023/10	DIRT MOUNDS REMOVED + NEW SIDEWALK		CP
R3	2023/08	DIRT MOUNDS		CP
R2	2023/07	WATER FOUNTAIN AND BENCHES		CP
R1	2022/12	WOODCHIPS AND FRENCH DRAIN		CP
R0	2022/11	RUBBER MAT SLOPE DRAINAGE		CP

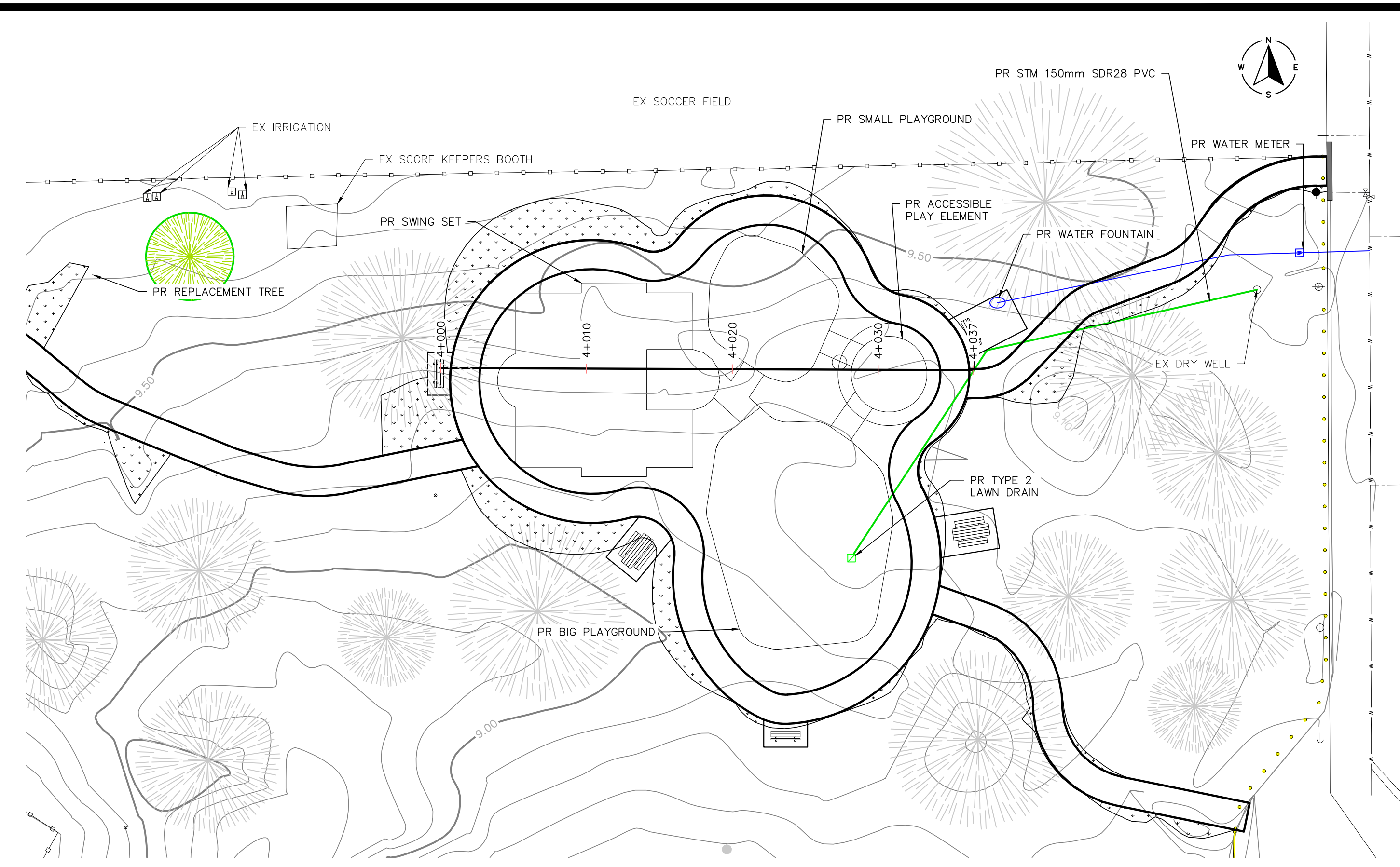
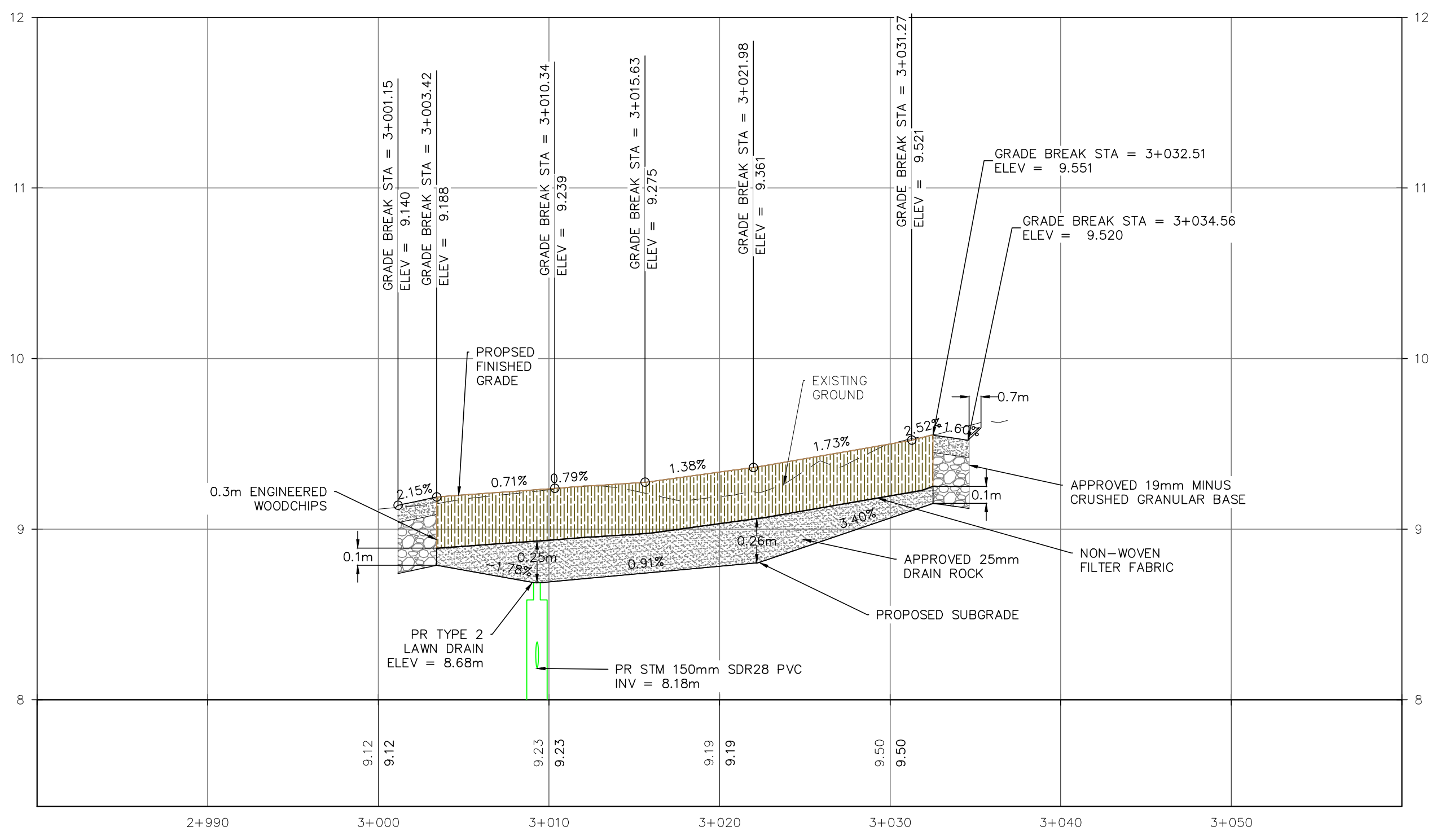
CITY OF DUNCAN	
200 CRAIG STREET DUNCAN, BC V9L 3Y2	

CITY OF DUNCAN	FILE NUMBER: 2022.027
McADAM PARK PLAYGROUND	SHEET: 6 OF 14
WEST SIDEWALK CORRIDOR CROSS SECTIONS	REVISION NO. R4
	DRAWING: C06
	DWG FILE: 2022.027 - R4

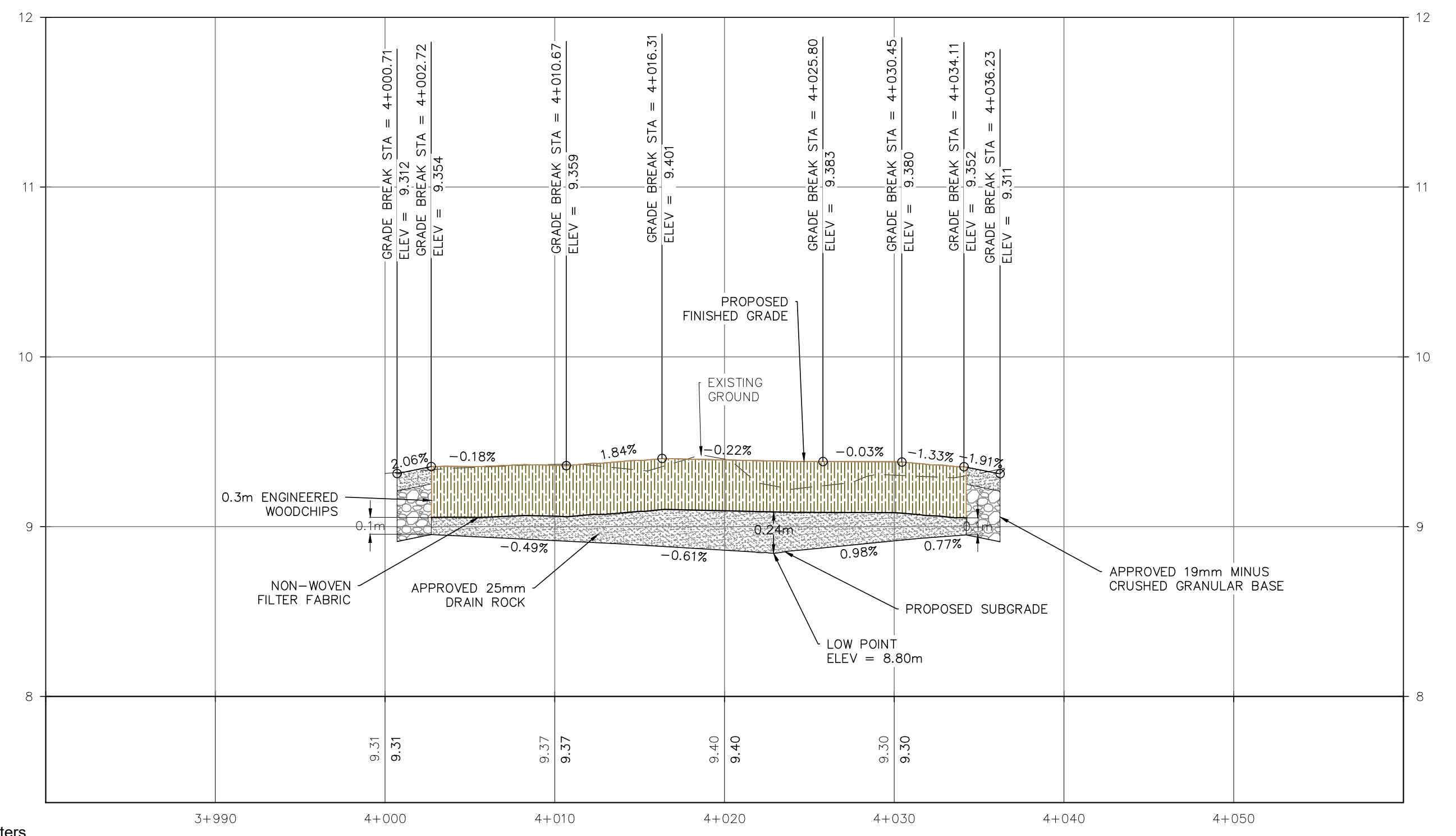
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N-S PLAYGROUND PROFILE



E-W PLAYGROUND PROFILE



LEGEND	PROPOSED	EXISTING
WATERMAIN	—	—
WATER SERVICE	—	—
WATER VALVE	—	—
WATERMAIN REDUCER	—	—
WATERMAIN COUPLER	—	—
FIRE HYDRANT	—	—
ARV	—	—
WATERMAIN BLOW OFF	—	—
WATERMAIN CAP	—	—
WATERMAIN LINE BREAK	—	—
STORM MAIN	—	—
STORM CLEANOUT	—	—
STORM SERVICE	—	—
CATCH BASIN	—	—
STORM MANHOLE	—	—
STORM CAP	—	—
STORM LINE BREAK	—	—
INLET/OUTLET/HEADWALL	—	—
SANITARY MAIN	—	—
SANITARY CLEANOUT	—	—
SANITARY CAP	—	—
SANITARY LINE BREAK	—	—
SANITARY MANHOLE	—	—
SANITARY SERVICE	—	—
CONCRETE	—	—
GUTTER LINE	—	—
ELEVATION	—	—
GRADE	—	—
ARV	—	—
FIRE HYDRANT	—	—
SANITARY MAIN	—	—
SANITARY SERVICE	—	—
MANHOLE	—	—
CLEANOUT	—	—
CAP	—	—
TELUS	—	—
LINE BREAK	—	—
FENCE	—	—
UTILITY POLE AND ANCHOR	—	—
SIGN	—	—
GUTTER LINE	—	—
WATER COURSE	—	—
SCALE OF LEGGEND: NTS	—	—

DESIGNED BY: BM APPROVED BY: BM
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 CHECKED BY: CMD CURRENT DATE: JAN 23 2024

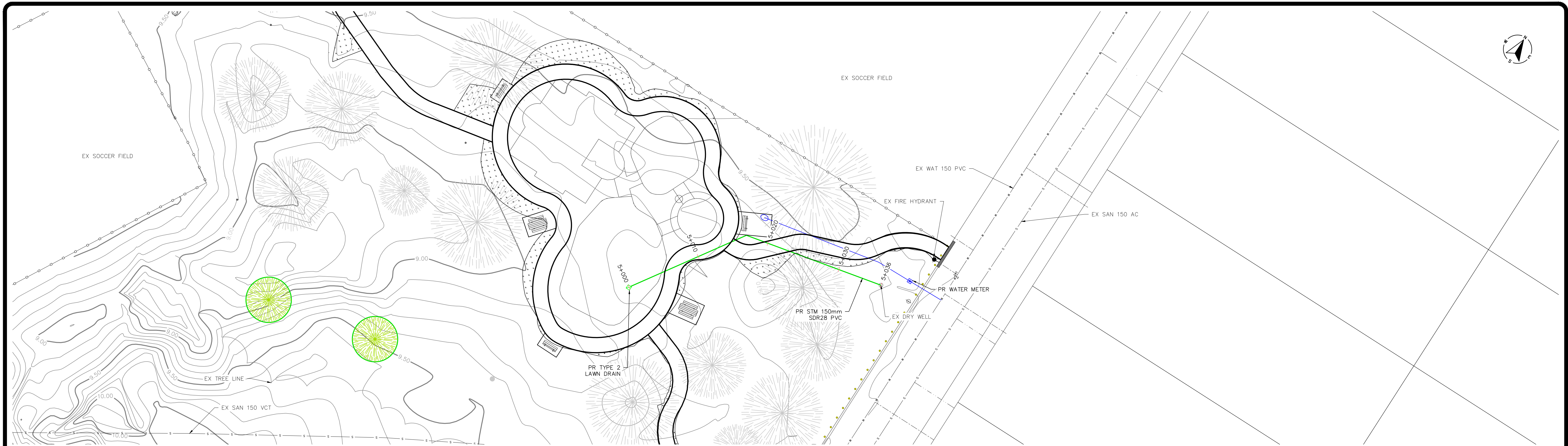
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R3	2023/08	DIRT MOUNDS		CP
R2	2023/07	WATER FOUNTAIN AND BENCHES		CP
R1	2022/12	WOODCHIPS AND FRENCH DRAIN		CP
R0	2022/11	RUBBER MAT SLOPE DRAINAGE		CP

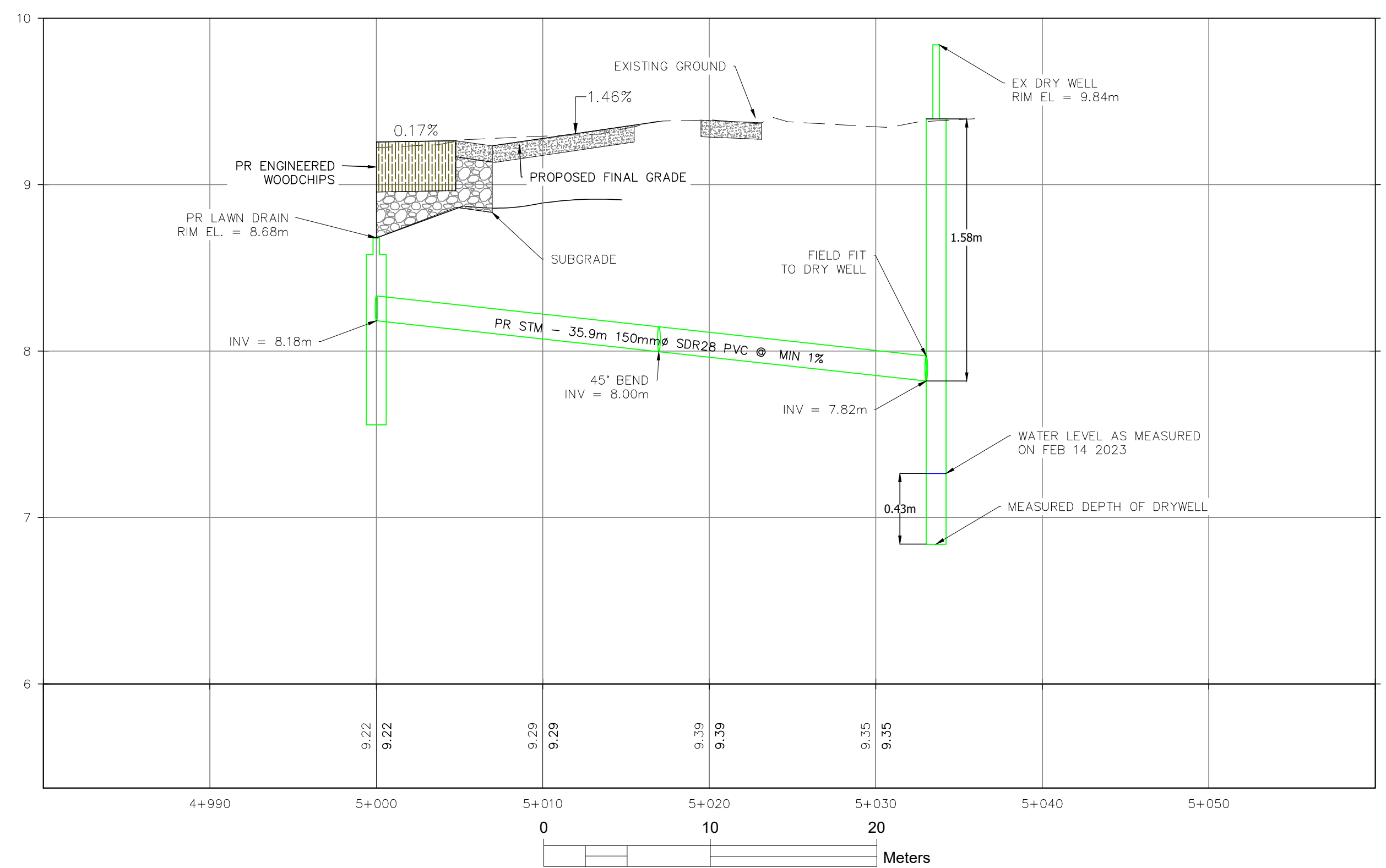
CITY OF DUNCAN
 200 CRAIG STREET
 DUNCAN, BC
 V9L 3Y2

CITY OF DUNCAN	FILE NUMBER: 2022.027
McADAM PARK PLAYGROUND	SHEET: 7 OF 14
PLAYGROUND PLAN & PROFILE	REVISION NO. R4
	DRAWING: C07
	DWG FILE: 2022.027 - R4

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DRY WELL DRAINAGE PROFILE



LEGEND	PROPOSED	WATERMAIN	WATERMAIN BLOW OFF	WATER SERVICE	WATER VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	FIRE HYDRANT	ARV
	EXISTING	WATERMAIN	WATER SERVICE	WATER VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	FIRE HYDRANT	ARV	BC HYDRO
		STORM MANHOLE	STORM CAP	STORM LINE BREAK	INLET/OUTLET/HEADWALL	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN
		SANITARY MANHOLE	SANITARY SERVICE	CONCRETE	SANITARY MAIN	SANITARY CLEANOUT	ELEVATION	GRADE	TELUS
		SANITARY LINE BREAK	SANITARY MANHOLE	SANITARY SERVICE	CONCRETE	GUTTER LINE	ELEVATION	GRADE	TELUS
		WATERMAIN	WATER SERVICE	WATER VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	FIRE HYDRANT	ARV	BC HYDRO
		STORM MANHOLE	STORM CAP	STORM LINE BREAK	INLET/OUTLET/HEADWALL	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN
		SANITARY MANHOLE	SANITARY SERVICE	CONCRETE	SANITARY MAIN	SANITARY CLEANOUT	ELEVATION	GRADE	TELUS
		SANITARY LINE BREAK	SANITARY MANHOLE	SANITARY SERVICE	CONCRETE	GUTTER LINE	ELEVATION	GRADE	TELUS

DESIGNED BY:	BM	APPROVED BY:	BM	SCALE	
DRAWN BY:	CP	DESIGN START DATE:	11/2022	H2. SCALE:	1:250
CHECKED BY:	CMD	CURRENT DATE:	DEC 04 2023	V1. SCALE:	1:25

REV#	DATE	DESCRIPTION	REVISIONS	BY
R4	2023/10	DIRT MOUNDS REMOVED + NEW SIDEWALK		CP
R3	2023/08	DIRT MOUNDS		CP
R2	2023/07	WATER FOUNTAIN AND BENCHES		CP
R1	2022/12	WOODCHIPS AND FRENCH DRAIN		CP
R0	2022/11	RUBBER MAT SLOPE DRAINAGE		CP

CITY OF DUNCAN
200 CRAIG STREET
DUNCAN, BC
V9L 3Y2

CITY OF DUNCAN	FILE NUMBER: 2022.027
McADAM PARK PLAYGROUND	SHEET: 8 OF 14
DRY WELL PLAN & PROFILE	REVISION NO. R4
	DRAWING: C08
	DWG FILE: 2022.027 - R4



PROPOSED		EXISTING	
WATERMAIN	WATERMAIN BLOW OFF	WATERMAIN	WATERMAIN BLOW OFF
WATER SERVICE	WATERMAIN CAP	WATER SERVICE	WATERMAIN CAP
WATER VALVE	WATERMAIN LINE BREAK	WATER VALVE	WATERMAIN LINE BREAK
WATERMAIN REDUCER	STORM MAIN	WATERMAIN REDUCER	STORM MAIN
WATERMAIN COUPLER	STORM CLEANOUT	WATERMAIN COUPLER	STORM CLEANOUT
FIRE HYDRANT	STORM SERVICE	FIRE HYDRANT	STORM SERVICE
ARV	CATCH BASIN	ARV	CATCH BASIN
STORM MANHOLE	STORM CAP	STORM MANHOLE	STORM CAP
SANITARY LINE BREAK	SANITARY MANHOLE	SANITARY LINE BREAK	SANITARY MANHOLE
SANITARY SERVICE	CONCRETE	SANITARY SERVICE	CONCRETE
INLET/OUTLET/HEADWALL	SANITARY MAIN	INLET/OUTLET/HEADWALL	SANITARY MAIN
GUTTER LINE	ELEVATION	GUTTER LINE	ELEVATION
GRADE		GRADE	

WATERMAIN	ARV	CATCH BASIN	LINE BREAK
WATER SERVICE METER	FIRE HYDRANT	SANITARY MAIN	FENCE
WATER SERVICE	WATERMAIN BLOW OFF	SANITARY SERVICE	UTILITY POLE AND ANCHOR
WATER VALVE	STORM MAIN	MANHOLE	SIGN
WATERMAIN REDUCER	STORM SERVICE	CLEANOUT	GUTTER LINE
WATERMAIN COUPLER	INLET/OUTLET/HEADWALL	CAP	WATER COURSE
GAS	BC HYDRO	TELUS	SCALE OF LEGGEND: NTS

DESIGNED BY: BM APPROVED BY: BM
 DRAWN BY: CP DESIGN START DATE: 11/2022
 CHECKED BY: CMD CURRENT DATE: DEC 06 2023

SCALE
 H2. SCALE: 1:200
 V1. SCALE: N/A

REV#	DATE	DESCRIPTION	REVISIONS	BY
R4	2023/10	DIRT MOUNDS REMOVED + NEW SIDEWALK		CP
R3	2023/08	DIRT MOUNDS		CP
R2	2023/07	WATER FOUNTAIN AND BENCHES		CP
R1	2022/12	WOODCHIPS AND FRENCH DRAIN		CP
R0	2022/11	RUBBER MAT SLOPE DRAINAGE		CP

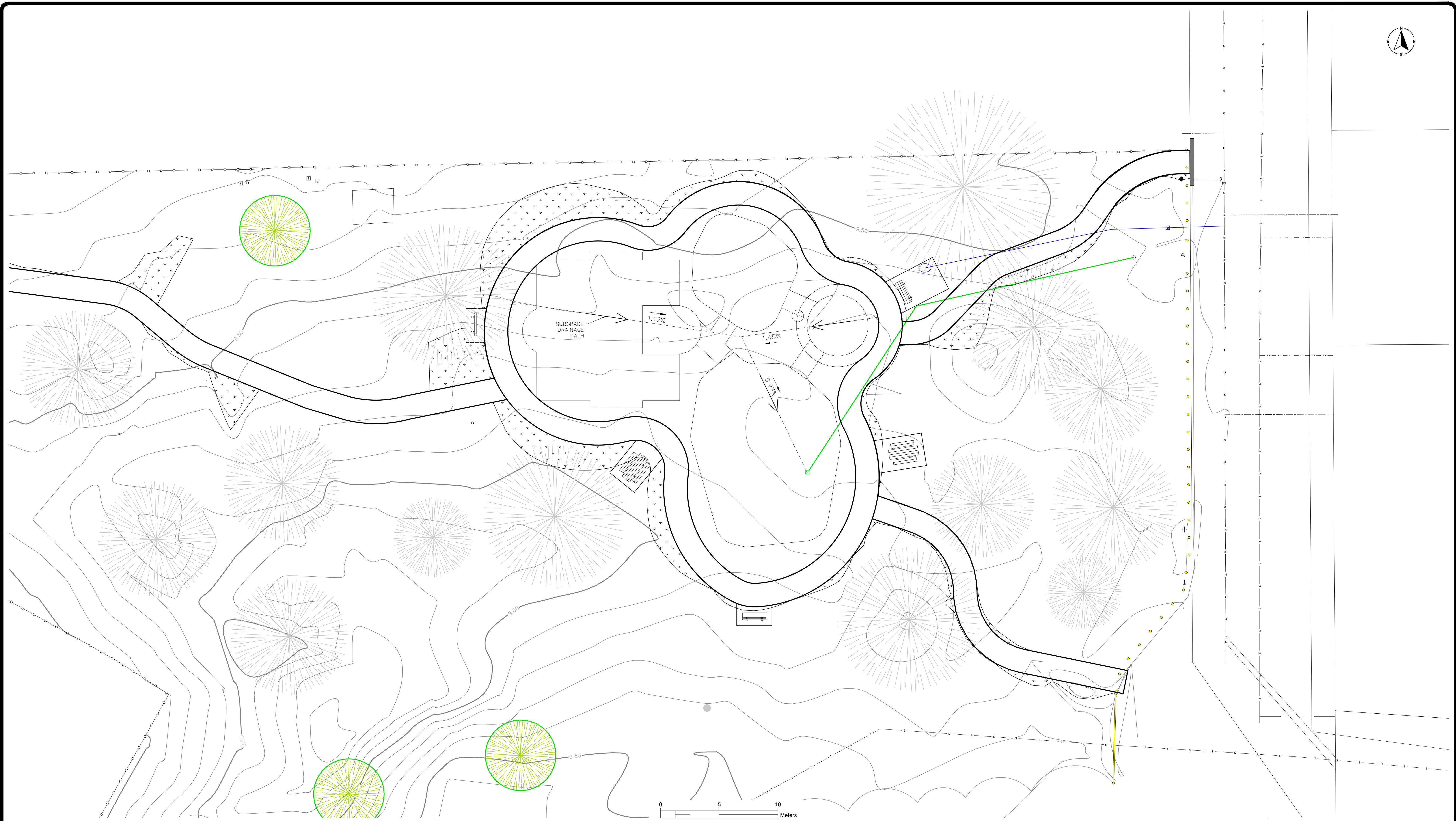
CITY OF DUNCAN
 200 CRAIG STREET
 DUNCAN, BC
 V9L 3Y2

CITY OF DUNCAN
MCADAM PARK PLAYGROUND

SIDEWALK GRADING PLAN

FILE NUMBER:	2022.027
SHEET:	9 OF 14
REVISION NO.	R4
DRAWING:	C09
DWG FILE:	2022.027 - R4

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LEGEND	PROPOSED	WATERMAIN	WATERMAIN BLOW OFF	WATER SERVICE	WATER VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	FIRE HYDRANT	ARV	STORM MANHOLE	STORM CAP	STORM LINE BREAK	INLET/OUTLET/HEADWALL	STORM MAIN	STORM CLEANOUT	STORM SERVICE	CATCH BASIN	SANITARY LINE BREAK	SANITARY MANHOLE	SANITARY SERVICE	CONCRETE	GUTTER LINE	ELEVATION	GRADE						
	EXISTING	WATERMAIN	WATER SERVICE METER	WATER SERVICE	WATER VALVE	WATERMAIN REDUCER	WATERMAIN COUPLER	GAS	ARV	FIRE HYDRANT	WATERMAIN BLOW OFF	STORM MAIN	STORM SERVICE	INLET/OUTLET/HEADWALL	STORM SERVICE	WATERMAIN COUPLER	BC HYDRO	CATCH BASIN	SANITARY MAIN	SANITARY SERVICE	MANHOLE	CLEANOUT	CAP	TELUS	LINE BREAK	FENCE	UTILITY POLE AND ANCHOR	SIGN	GUTTER LINE	WATER COURSE

DESIGNED BY: BM	APPROVED BY: BM	SCALE
DRAWN BY: CP	DESIGN START DATE: 11/2022	H2. SCALE: 1:150
CHECKED BY: CMD	CURRENT DATE: DEC 04 2023	V1. SCALE: N/A

REV#	DATE	DESCRIPTION	REVISIONS	BY
R4	2023/10	DIRT MOUNDS REMOVED + NEW SIDEWALK		CP
R3	2023/08	DIRT MOUNDS		CP
R2	2023/07	WATER FOUNTAIN AND BENCHES		CP
R1	2022/12	WOODCHIPS AND FRENCH DRAIN		CP
R0	2022/11	RUBBER MAT SLOPE DRAINAGE		CP

CITY OF DUNCAN
200 CRAIG STREET
DUNCAN, BC
V8L 3Y2

CITY OF DUNCAN
McADAM PARK
PLAYGROUND

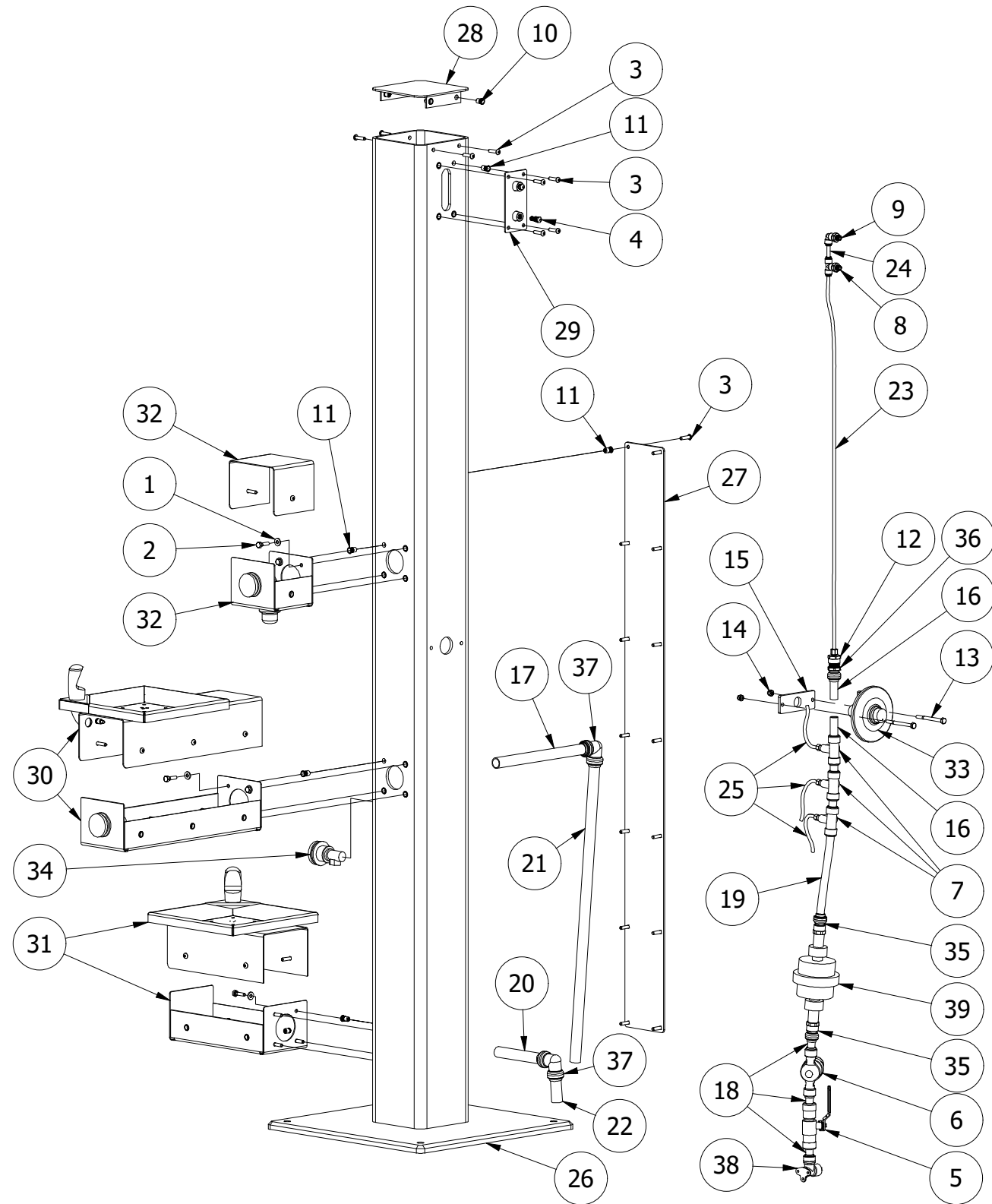
SUBGRADE GRADING
PLAN

FILE NUMBER:	2022.027
SHEET:	10 OF 14
REVISION NO.	R4
DRAWING:	C10
DWG FILE:	2022.027 - R4

C:\Users\j.duncan\OneDrive - City of Duncan\2022\2022.027 - McAdam Park Play Fountain and Ben Survey\Playground Subgrade Plan - R4.dwg - 11/21/2023 10:11:00 AM

GENERAL NOTES:

1. PLUMBING FITTINGS MAY BE SUBSTITUTED. FITTINGS MUST HAVE SAME CONNECTION STYLE AND BE RATED FOR 150 PSI POTABLE WATER.
2. REMOVE FIXTURE COVERS TO MOUNT FIXTURES TO COLUMN AND INSTALL PLUMBING.
3. APPLY BLUE LIQUID THREAD LOCKER TO ALL FASTENERS DURING FINAL ASSEMBLY.
4. REFER TO P2022-355-0001A FOR SUPPLY HOSE AND HYDRANT CONNECTION INFORMATION



PARTS LIST

ITEM	PART NUMBER	DESCRIPTION	VENDOR	QTY
1	1/4 FLAT WASHER	1/4-20 ZINC PLATED FLAT WASHER	N/A	12
2	1/4-20 HEX BOLT	1/4-20 X 1 LG ZINC PLATED GRADE 8 HEX BOLT	N/A	12
3	1/4-20 SCREW	1/4-20 X 1 STAINLESS STEEL BUTTON HEAD TORX SCREW - TAMPER RESISTANT	MCMaster-CARR	22
4	3178K41	MISTING NOZZLE, .01 ORIFICE, 1/8 NPT	MCMaster-CARR	2
5	22222LF	VALVE, 1/2 PUSH CONNECT	SHARKBITE	1
6	24472-0045	PRESSURE REDUCING VALVE, 1/2 FEMALE NPT, BRASS, 10-70PSI OUTLET	SHARKBITE	1
7	24983	VALVE TEE, 1/2 PUSH CONNECT, 1/4 (OD) COMPRESSION BRANCH	SHARKBITE	3
8	51055K26	TEE ADAPTER, 1/4 OD PUSH CONNECT TO 1/8 MALE NPT	MCMaster-CARR	1
9	51055K47	ELBOW ADAPTER, 1/4 OD PUSH CONNECT TO 1/8 MALE NPT	MCMaster-CARR	1
10	97467A725	RIVET NUT, 1/4-20, FOR 0.027 TO 0.165 THICK MATERIAL, STAINLESS STEEL	MCMaster-CARR	4
11	97467A726	RIVET NUT, 1/4-20, FOR 0.188 TO 0.26 THICK MATERIAL, STAINLESS STEEL	MCMaster-CARR	30
12	G6008-08-04	ADAPTER, 1/4 OD COMPRESSION X 1/2" FNPT	GREEN LINE	1
13	HHCS 1/4-20 UNC X 3 - GR 5	HEX HEAD BOLT 1/4-20 UNC X 3" - GRADE 5	N/A	2
14	NNT 1/4-20 UNC - GR 5	NYLOCK NUT 1/4-20 UNC - GRADE 5	N/A	2
15	P2022-355-0003P	MISTING VALVE BRACKET	N/A	1
16	P2022-355-0005P	TUBE, COPPER, 1/2" X 2-1/2" LG (NO DRAWING)	N/A	2
17	P2022-355-0006P	TUBE, PEX, 3/4" ID (7/8" OD) X 11" LG (NO DRAWING)	N/A	1
18	P2022-355-0007P	TUBE, PEX, 1/2" ID (5/8" OD) X 2-1/2" LG (NO DRAWING)	N/A	5
19	P2022-355-0008P	TUBE, PEX, 1/2" ID (5/8" OD) X 8-5/8" LG (NO DRAWING)	N/A	1
20	P2022-355-0009P	TUBE, PEX, 3/4" ID (7/8" OD) X 6" LG (NO DRAWING)	N/A	1
21	P2022-355-0010P	TUBE, PEX, 3/4" ID (7/8" OD) X 26 LG (NO DRAWING)	N/A	1
22	P2022-355-0011P	TUBE, PEX, 3/4" ID (7/8" OD) X 3 LG (NO DRAWING)	N/A	1
23	P2022-355-0012P	TUBE, PEX, 1/4" OD X 32" LG (NO DRAWING)	N/A	1
24	P2022-355-0013P	TUBE, PEX, 1/4" OD X 2" LG (NO DRAWING)	N/A	1
25	P2022-355-0014P	TUBE, PEX, 1/4" OD X 48" LG (NO DRAWING) - CUT TO LENGTH	N/A	3
26	P2022-355-0100A	DRINKING FOUNTAIN TOWER	N/A	1
27	P2022-355-0103P	DRINKING FOUNTAIN BACK COVER	N/A	1
28	P2022-355-0110A	DRINKING FOUNTAIN TOP CAP	N/A	1
29	P2022-355-0120A	MISTING NOZZLE MOUNT	N/A	1
30	P2022-355-0200A	DRINKING FOUNTAIN FIXTURE	N/A	1
31	P2022-355-0300A	DRINKING FOUNTAIN DOG FIXTURE	N/A	1
32	P2022-355-0400A	WATER BOTTLE STATION	N/A	1
33	SLSHVC-355	PUSH BUTTON AUTO SHUT OFF VALVE, 1/2" OD COMPRESSION	KING SUPPLY CO	1
34	T9A604021	DRINKING FOUNTAIN PUSH BUTTON	GLOBAL INDUSTRIAL	1
35	U072LFA	ADAPTER, 1/2" PUSH CONNECT X 1/2" FNPT	SHARKBITE	2
36	U120LF	ADAPTER, 1/2 PUSH CONNECT TO 1/2 MALE NPT	SHARKBITE	1
37	U256LF	ELBOW, 3/4 PUSH CONNECT, BRASS	SHARKBITE	2
38	U334LF	DROP-EAR ELBOW, 1/2" PUSH CONNECT X 1/2" FNPT	SHARKBITE	1
39	WVT-A-01	WATER METER	DWYER	1

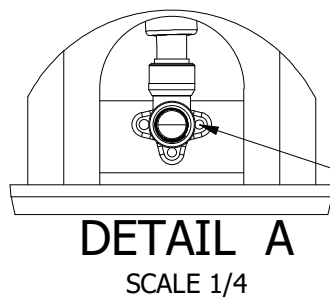
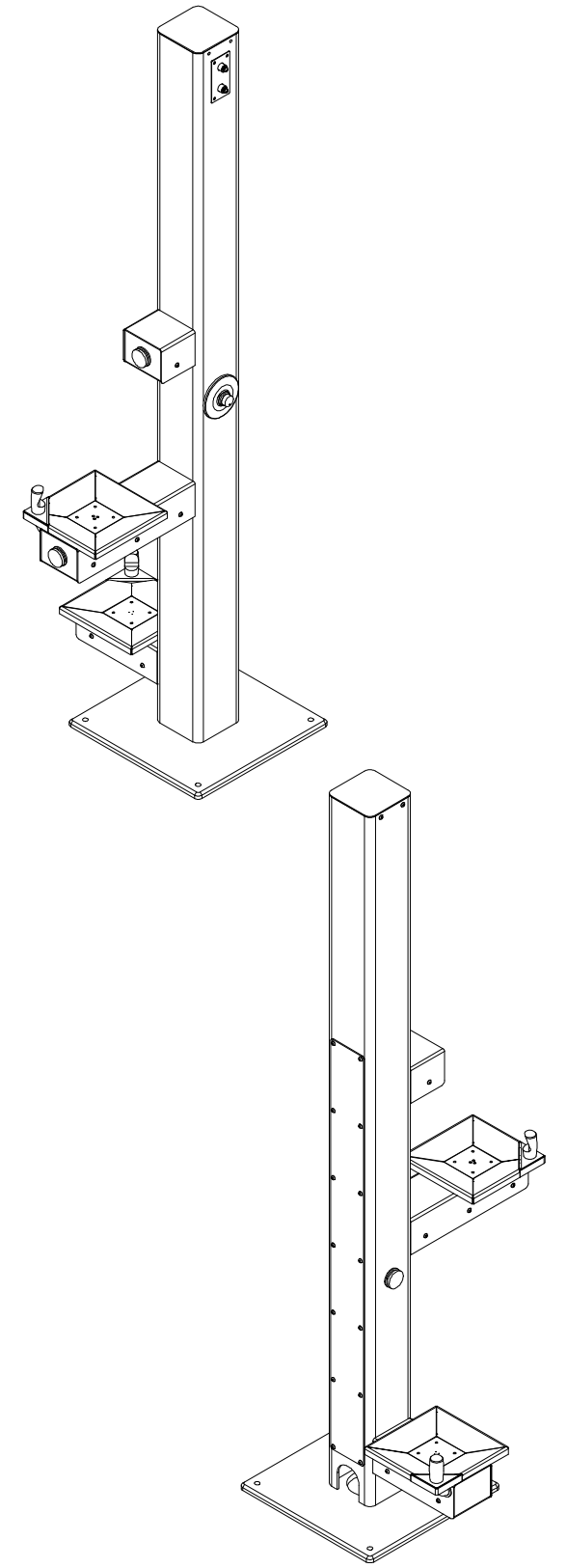
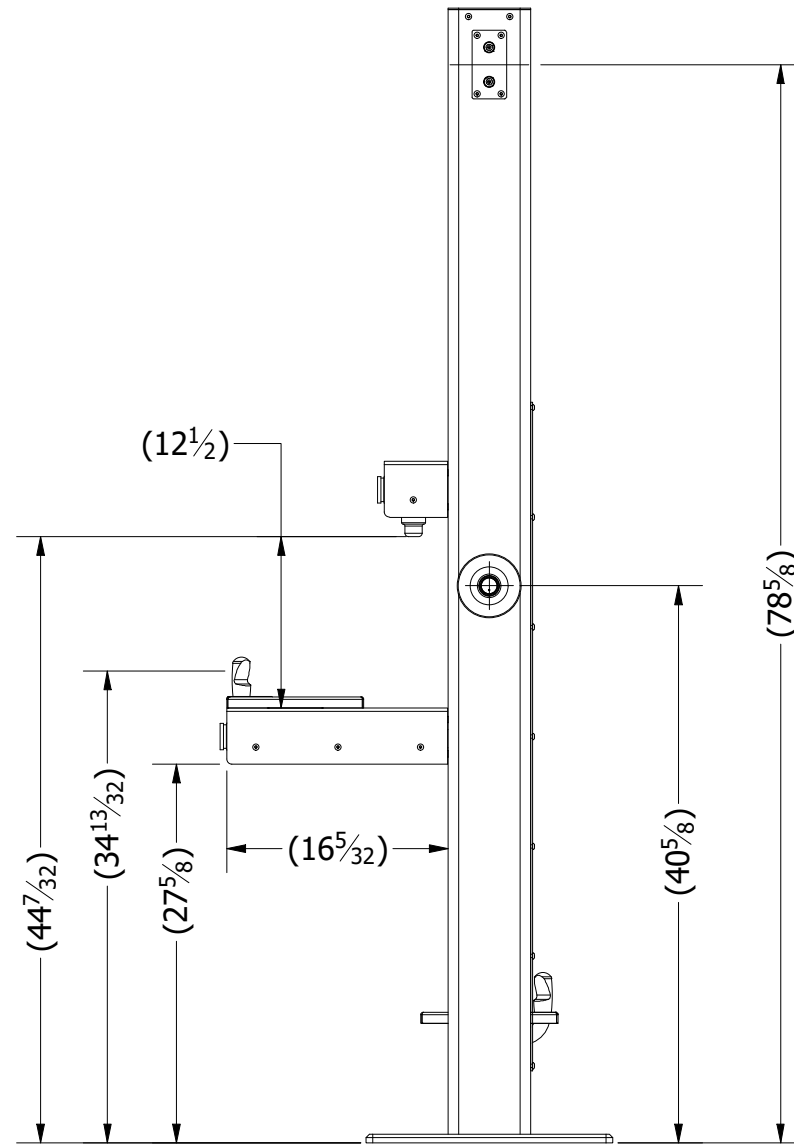
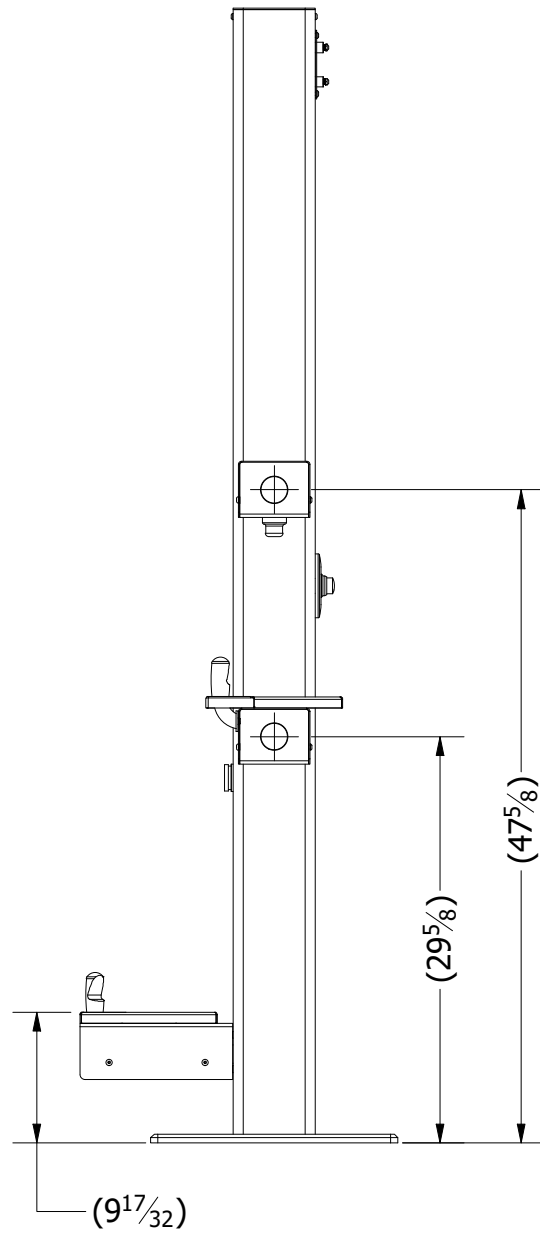
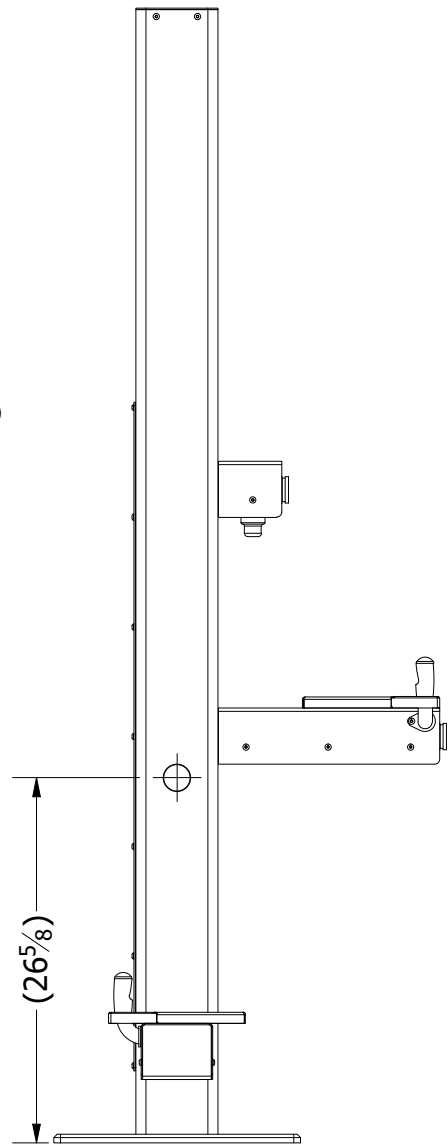
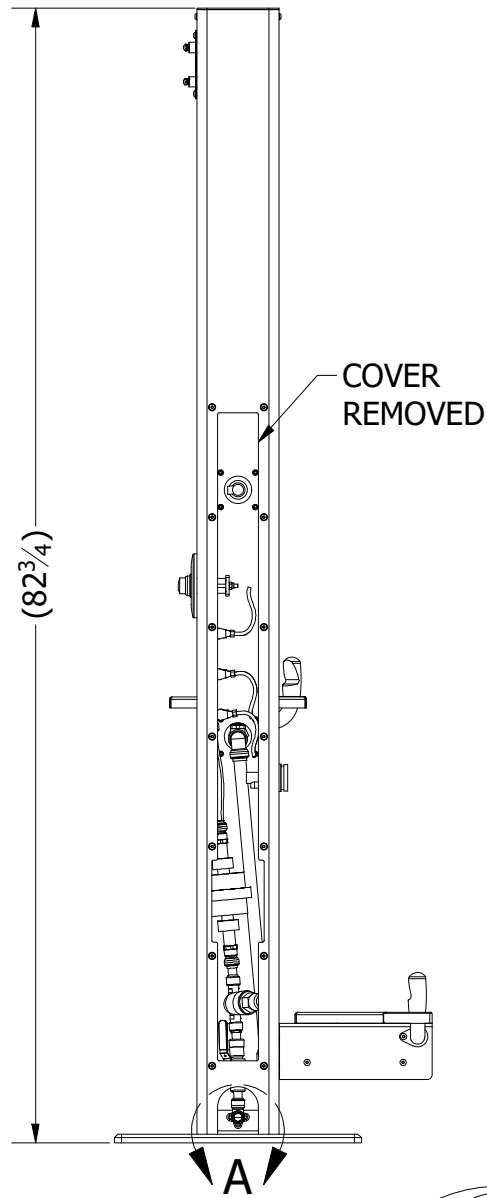
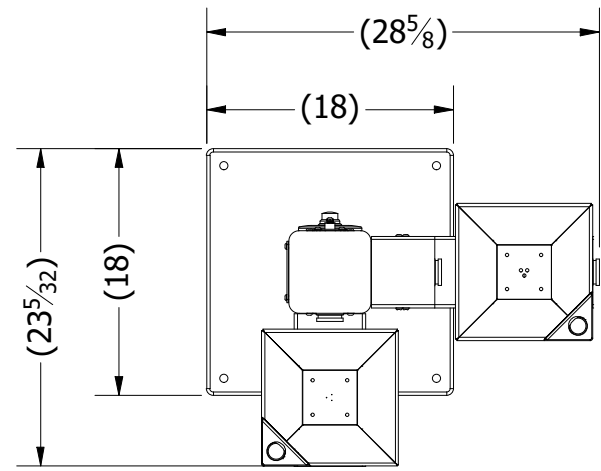
CAUTION:
DRINKING FOUNTAIN IS UNSTABLE
UNLESS FASTENED SECURELY TO
CONCRETE BASE.

REV	DESCRIPTION	PROJECT	DATE	BY
B	SHORTENED BOTTLE FILLER, CHANGED FIXTURES TO STAINLESS STEEL, UPDATED FITTING PACKAGE	P2023-337	07/12/2023	JM
A	INITIAL RELEASE	2022-355	05/23/2023	JM

REVISION HISTORY

IF IN DOUBT, PLEASE ASK.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16" ANGULAR: MACH ± 0.1° BEND ± 1° TWO PLACE DECIMAL ± .01" THREE PLACE DECIMAL ± .005" SURFACE FINISH 125 REMOVE AND DE-BUR SHARP EDGES WELDING DONE BY JOURNEYMAN WELDER ALL WELDING CALLOUTS IN ACCORDANCE WITH AWS A2.4		THE CITY OF CALGARY FLEET SERVICES					
				TITLE: DRINKING FOUNTAIN			
DESIGN	J.MCLEOD	SCALE	1 / 17	SHEET SIZE	B	REVISION	B
MATERIAL	N/A	ENGINEER	N/A	DRAWING NUMBER		2022-355-0000A	
FINISH	DEGREASE AND CLEAN	DRAWN	J.MCLEOD	1 OF 2			
ENGINEER STAMP	MASS	97.17 Lbs	DATE			10/25/2022	

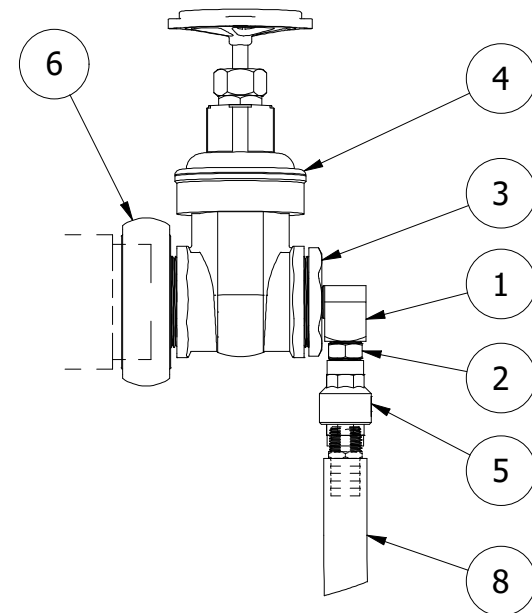


FASTEN DROP-EAR ELBOW TO PLATE AFTER CONNECTING SUPPLY HOSE

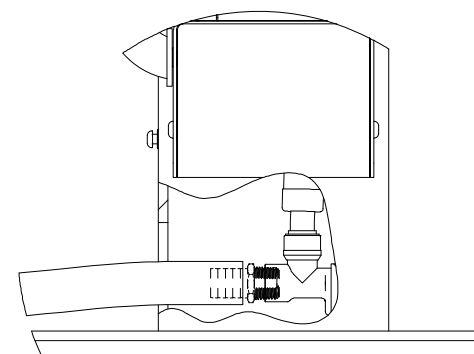
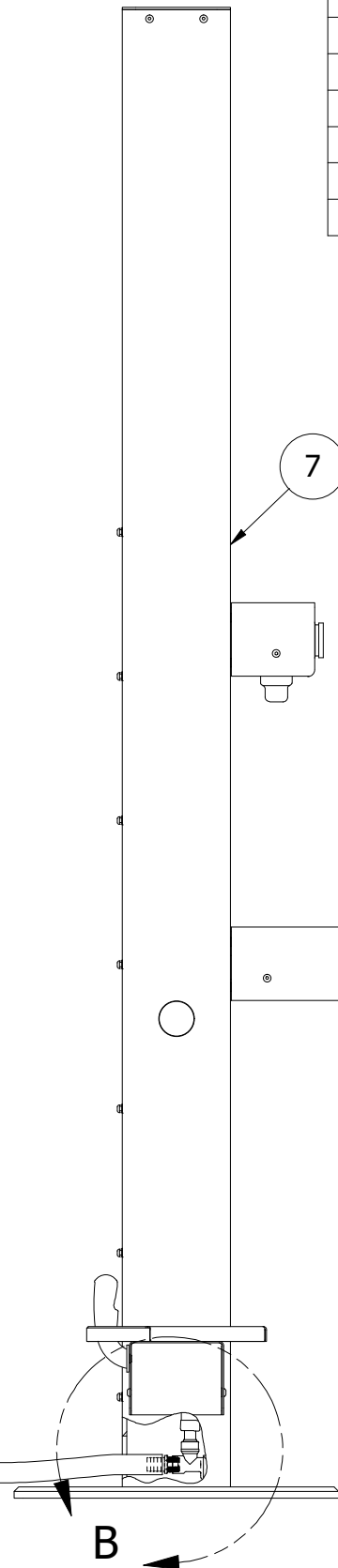
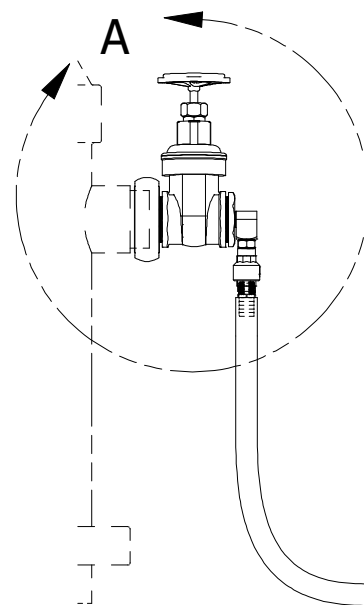
DETAIL A
SCALE 1/4

IF IN DOUBT, PLEASE ASK.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/16"$ ANGULAR: MACH $\pm 0.1^\circ$ BEND $\pm 1^\circ$ TWO PLACE DECIMAL $\pm .01"$ THREE PLACE DECIMAL $\pm .005"$ SURFACE FINISH 125 REMOVE AND DE-BUR SHARP EDGES WELDING DONE BY JOURNEYMAN WELDER ALL WELDING CALLOUTS IN ACCORDANCE WITH AWS A2.4		 THE CITY OF CALGARY FLEET SERVICES					
		TITLE: DRINKING FOUNTAIN					
DESIGN	J.MCLEOD	SCALE	1/14	SHEET SIZE	B	REVISION	B
MATERIAL	N/A	ENGINEER	N/A	DRAWING NUMBER		 SHEET 2 OF 2	
FINISH	DEGREASE AND CLEAN	DRAWN	J.MCLEOD	P2022-355-0000A			
ENGINEER STAMP	MASS	97.17 Lbs	DATE	10/25/2022			



DETAIL A
SCALE 1 / 5



DETAIL B
SCALE 1 / 5

PARTS LIST				
ITEM	PART NUMBER	DESCRIPTION	VENDOR	QTY
1	1491N114	ELBOW, 1/2 MNPT X 1/2 FNPT, BRASS	MCMASTER-CARR	1
2	1491N235	NIPPLE, 1/2 NPT, BRASS	MCMASTER-CARR	1
3	4452K192	REDUCER BUSHING, 2" MNPT X 1/2" FNPT	MCMASTER-CARR	1
4	4619K18	GATE VALVE, 2" FNPT, BRASS	MCMASTER-CARR	1
5	8517T23	CHECK VALVE 1/2 FNPT, BRASS	MCMASTER-CARR	1
6	G82SBAT-200	SWIVEL ADAPTER, 2.5" BRITISH COLUMBIA STANDARD/ALBERTA MUTUAL THREAD X 2" MNPT	GREEN LINE	1
7	P2022-355-0000A	DRINKING FOUNTAIN	N/A	1
8	P2022-355-0002A	DRINKING WATER HOSE ASSEMBLY, 3/4" G1031-075 HOSE W/ 1/2" MNPT ENDS, LENGTH TBD (NO DRAWING)	GREEN LINE	1

GENERAL NOTES:

- LAYOUT SHOWN FOR REFERENCE, AND WILL REQUIRE ADJUSTMENT BASED ON INSTALLATION LOCATION.
- FITTING INFORMATION IS FOR REFERENCE ONLY. CHANGES MAY BE REQUIRED BASED ON FITTING AVAILABILITY AND CHANGES IN INSTALLATION LAYOUT. FITTINGS MUST BE RATED FOR 150 PSI MINIMUM AND BE SUITABLE FOR DRINKING WATER.
- HOSE LENGTH TO BE DETERMINED BASED ON SITE LAYOUT FOR EACH FOUNTAIN
- ISOLATION VALVE AND CHECK VALVE SHOULD BE INSTALLED DIRECTLY ON HYDRANT.
- IT IS THE RESPONSIBILITY OF THE INSTALLER TO BE FAMILIAR WITH AND ADHERE TO ALL RELEVANT STANDARDS FOR INSTALLATION OF POTABLE WATER STATIONS AND CONNECTIONS TO HYDRANTS.
- FOUNTAIN REQUIRES REGULAR ACCESS TO 3 SIDES, AND ACCESS TO THE FOURTH SIDE FOR SET-UP AND MAINTENANCE.
- FOUNTAIN MUST BE SECURELY FASTENED TO A SUITABLE CONCRETE SUBSTRATE THROUGH THE MOUNTING HOLES PROVIDED IN THE BASE PLATE. SPECIFIC HARDWARE AND ANCHOR SPECIFICATIONS ARE THE RESPONSIBILITY OF THE INSTALLER, BASED ON CONDITIONS OF THE INSTALLATION.

UNLESS OTHERWISE SPECIFIED		THE CITY OF CALGARY FLEET SERVICES			
<small>DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16" ANGULAR: MACH ± 0.1° BEND ± 1° TWO PLACE DECIMAL ± .01" THREE PLACE DECIMAL ± .005" SURFACE FINISH 125 REMOVE AND DE-BUR SHARP EDGES WELDING DONE BY JOURNEYMAN WELDER ALL WELDING CALLOUTS IN ACCORDANCE WITH AWS A2.4</small>		TITLE: DRINKING FOUNTAIN HYDRANT CONNECTION			
DESIGN	J.MCLEOD	SCALE: NTS	SHEET SIZE B	REVISION	A
MATERIAL	N/A	ENGINEER	N/A	DRAWING NUMBER	
FINISH	N/A	DRAWN	J.MCLEOD	P2022-355-0001A	
ENGINEER STAMP	MASS	90.98 Lbs	DATE	6/28/2023	 SHEET 1 OF 1

A	INITIAL RELEASE	P2022-355	07/17/2023	JM
REV	DESCRIPTION	PROJECT	DATE	BY
REVISION HISTORY				

IF IN DOUBT, PLEASE ASK.