



PROPOSAL

**A CLEAR
SOURCE
OF
FUN**

**South Surrey Athletic Park
City of Surrey, Surrey, BC**

December 23, 2016





South Surrey Athletic Park

City of Surrey, Surrey, BC

After carefully assessing your needs, we have designed a Splashpad solution specifically for your project. Please see the attached 3D renderings for visual support as well as the Top View drawing giving you dimensions, water flows and layout of the products selected for you. A CAD version of the Spray Zone is available upon request. You will also find a short summary of each product selected within this proposal for a better understanding of the individual features we are proposing.

Play Value

Vortex Aquatic Structures International Inc. designs every Splashpad with a variety of water effects to ensure the maximum play value for the users. Emphasis is put on interactive play and narration throughout the Splashpad. The goal is to stimulate imagination and creativity, unscripted free play encourages children to create their own play experiences. Our products are designed with the Universal Design principal at its core. This results in an esthetically pleasing design that can be enjoyed by users of all ages and ability. Our exclusive Vortex Technologies encourage interactivity and allow users to control the water and the feature itself.

Quality and Durability

Our products are made of stainless steel and we utilize some of the most durable materials in the industry; including our unique Seeflow material, our Soft-touch elastomer as well as lead-free brass nozzles for maximum durability. Our components are vandal resistant as well as being UV and chemical resistant. We create products that are safe, durable and of the highest quality ensuring your Splashpad will endure season after season of use.

We have Experience

Vortex Aquatic Structures International Inc. is the world leader in Aquatic Play Landscapes and entertainment. With installations at more than 6,000 locations around the world in public, commercial and entertainment settings, Vortex International provides imaginative, durable aquatic play and water feature solutions

that create everlasting memories. Our ongoing mission is to develop fun, safe and reliable products for families and children of all ages and abilities.

We have included a short corporate video to familiarize you with Vortex Aquatic Structures International Inc. Please feel free to consult our reference list and contact us if you have any questions or need assistance.

Thank you and enjoy our proposal

A CLEAR SOURCE OF POSSIBILITIES

DB Perks & Associates Ltd Your local specialist

Our parent company was incorporated in 1975! 2015 is our 40th year in business. For 40 years we have been serving commercial aquatic facilities throughout Canada. We thank you for your continued support.

Our Community Support Program

With your support the DB Perks Group of Companies has been able to contribute over one million dollars to a variety of aquatic organizations in Canada over the past 40 years.

Equivalence Table

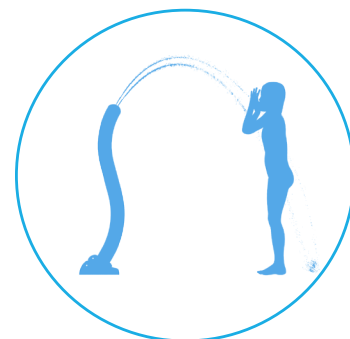
LEG # on ME-1	Waterplay	Vortex
1	Wiggly	Silhouette VOR-7773
2	Misty Twisty	Tot Twister VOR-7030
3	Funbrella	Aquadome VOR-0555
4	Tulip	Water Jelly VOR-7010
5	Caronnade	Spray Cannons VOR-0201
7	Group Volcano	Team Spray No.2 VOR-8061
8	The wave	Rooster Tail VOR-0303
9	Spray Loops	Spray loops VOR-0518
10	Mega Soaker	SuperSplash No.2 VOR-0130

Product detail, water effect and Vortex design information for each proposed equivalent feature is on following pages.

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VOR 7773 SILHOUETTE N°2



Ideal age group: For all ages

PRODUCT HIGHLIGHTS

- Cross under the water tunnel created by this play feature
- Sleek and modern design



*Try not to get
wet from this
Silhouette!*

You may also like



• Silhouette N°1
(VOR 7772)



• Silhouette N°3
(VOR 7774)



• Silhouette N°4
(VOR 7776)



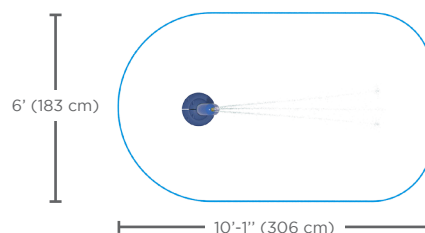
• Silhouette N°5
(VOR 7777)



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Spray Zone



H/W/L

55/13/13 in
139/33/33 cm

Pressure

5-10 PSI
0.3-0.7 BAR

Flow

2-7 GPM
8-26 LPM

Smartflow

-
-

Color Choices: Vortex colors or polished

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.

1



TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post

WATER EFFECTS

- Jet stream (3)

Features, anchoring systems and hardware are made of 100% recyclable stainless steel, including at least 25% post-consumer recycled content.



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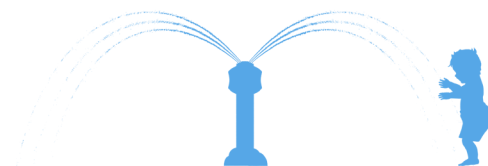
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Proposed as for Feature #2 on DRWG ME-1 - Equivalent to Water Play 'MISTY TWISTER' Ideal age group: 4 years and up

VOR 7030 TOT TWISTER

PRODUCT HIGHLIGHTS

- Rotate with 360° rotation with no pinch point for interactive play
- Helps develop motor skills

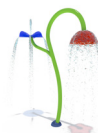


This feature twist!

You may also like



• Orbit
 (VOR 7398)



• Flower NS2
 (VOR 7550)



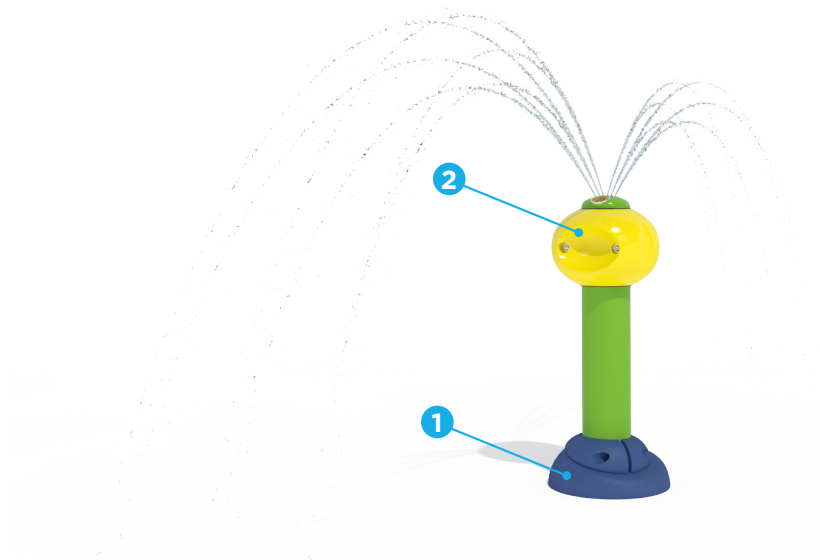
• Bloom NS1
 (VOR 7486)



• Leaf NS2
 (VOR 7657)

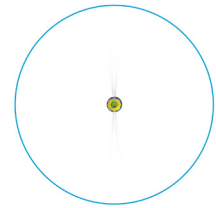


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Spray Zone

ø 144" (ø 366 cm)



H/W/L	Pressure
27/13/13 in	10-20 PSI
69/33/33 cm	0.69-1.38 BAR

Flow	Smartflow
10-20 GPM	-
37.9-75.7 LPM	-
Color Choices: Vortex colors or polished	

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post



TURNTEC™

- Easy turning for kids of all ages and abilities
- Lead-free brass for maximum durability - unaffected by heat
- 360° rotation - no mechanical stops to break
- Internal spray zone adjust
- Corrosion and chemical resistant

WATER EFFECTS

- Interactive soft stream (12)



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Ideal age group: For all ages

VOR 0555 AQUA DOME N°1



PRODUCT HIGHLIGHTS

- Mesmerizing laminar bell shaped water effect
- Encourages different types of game playing



*Fall into the spell of
its water effect!*

You may also like



• Tube N°1
(VOR 0220)



• Spray cannon
(VOR 0201)



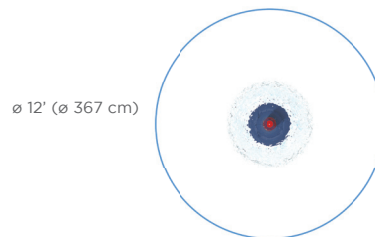
• Spray Loop
(VOR 0519)



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Spray Zone



H/W/L	Pressure
45/5/5 in	5 -10 PSI
114/11/11 cm	0.3 -0.7 BAR

Flow	Smartflow
10 -18 GPM	
38 -68 LPM	

Color Choices: Vortex colors or polished

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post

WATER EFFECTS

- 360° laminar water (1)

Features, anchoring systems and hardware are made of 100% recyclable stainless steel, including at least 25% post-consumer recycled content



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Ideal age group: For all ages

VOR 7010 WATER JELLY N°1

PRODUCT HIGHLIGHTS

- Encourage different play opportunities
- Kids will enjoy running their hands and legs through the water



You may also like



• Waterbug N°3
(VOR 7582)



• Frog N°1
(VOR 7200)



• Snail N°4
(VOR 7217)

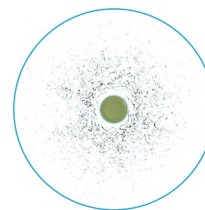


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Spray Zone

ø 24" (ø 61 cm)



H/W/L	Pressure
0/5/5 in	1-2 PSI
0/13/13 cm	0.1-0.1 BAR

Flow	Smartflow
10-12 GPM	-
38-45 LPM	-

Color choices: Colors as shown

WATER EFFECTS

- Inverted bell spray (1)

REVISED: 29/08/2016

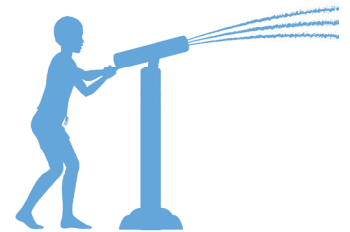


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Ideal age group: 6 years and up

VOR 0201 SPRAY CANNON



PRODUCT HIGHLIGHTS

- Intuitive 360° rotation with no pinch point
- Rotates right or left and shifts up and down for added play value



*Ready, aim and
spray!*

You may also like



• Spray Loops
(VOR 0518)



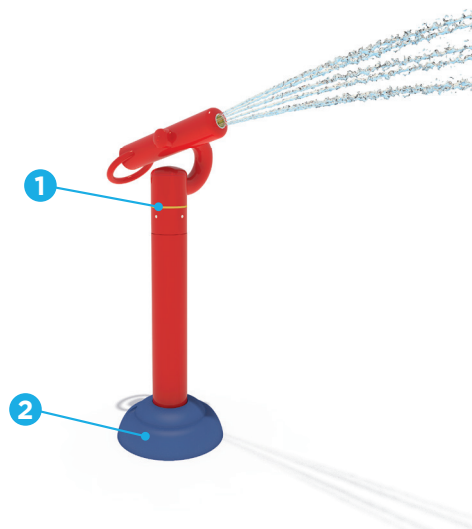
• Tube N°1
(VOR 0220)



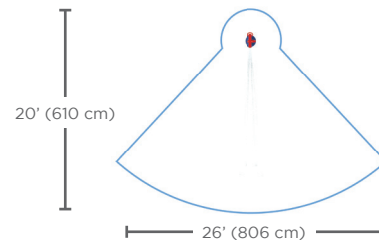
• Sunspray N°2
(VOR 7579)



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Spray Zone



H/W/L

40/19/14 in
101/48/36 cm

Pressure

10-15 PSI
0.7-1 BAR

Flow

5-10 GPM
19-38 LPM

Smartflow

3-5 GPM
11-19 LPM

Color Choices: Vortex colors or polished

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



TURNTEC™

- Easy turning for kids of all ages and abilities
- Lead-free brass for maximum durability - heat resistant
- 360° rotation - no mechanical stops to break
- Adjustable spray zone - control the area where water begins and stops
- Corrosion and chemical resistant



TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post

WATER EFFECTS

- Cannon jet (1)

Features, anchoring systems and hardware are made of 100% recyclable stainless steel, including at least 25% post-consumer recycled content



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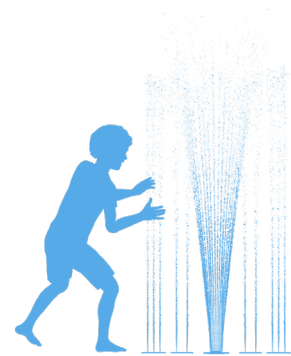


Ideal age group: 4 years and up

VOR 8061 TEAM SPRAY N°2

PRODUCT HIGHLIGHTS

- Activate this feature by pressing on the Funflow Actuator™
- Exciting burst of water for many play opportunities
- Enjoy running through the water jets



You may also like



• Aqua Dome N°1
(VOR 0555)



• Frog N°4
(VOR 7203)



• Leaf N°3
(VOR 7672)



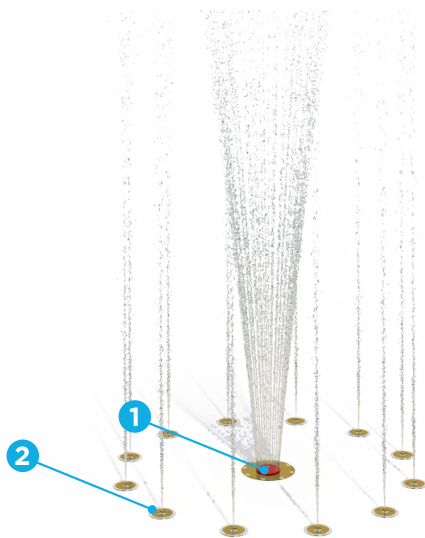
• Turtle N°2
(VOR 7216)



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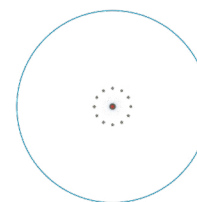
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Spray Zone

ø 180" (ø 457 cm)



H/W/L

1/38/38 in
3/97/97 cm

Pressure

5-15 PSI
0.3-1.0 BAR

Flow

36-60 GPM
136-227 LPM

Smartflow

18-40 GPM
68-151 LPM

Color Choices: Colors as shown

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



FUNFLOW ACTUATOR™

- Interactive cause & effect
- Encourages Collaborative Play
- Step on the cap to divert and multiply the water to another feature
- Low flow when not pressed to help save water
- No electrical required - simple installation



LINEFLOW^{MC} NOZZLE

- Precisely orient the stream of water with the internal Brass marble
- Compact design provides better product integration
- Easy to adjust for the most efficient use of water based on your installation
- Made of lead-free brass for maximum durability

WATER EFFECTS

- Funflow Actuator™ geyser (1)
- Jet stream (12)

REVISED: 28/08/2016



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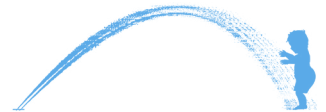


Ideal age group: for all ages

VOR 0303 ROOSTER TAIL

PRODUCT HIGHLIGHTS

- Jet streams shaped liked a rooster tail encourage imaginative play
- Kids will enjoy running their hands and legs through the water



You may also like



• Fish N°1
(VOR 7218)



• Bamboo Cannon N°2
(VOR 7721)



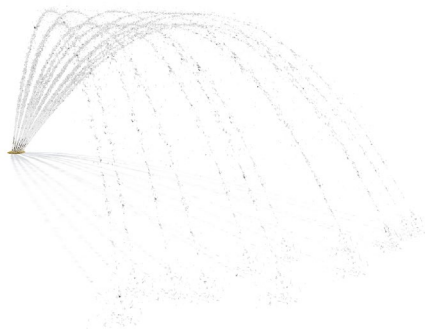
• Silhouette N°2
(VOR 7773)



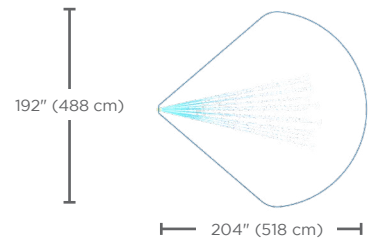
• Silhouette N°5
(VOR 7777)



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Spray Zone



H/W/L	Pressure
0/5/5 in	5-10 PSI
0/13/13 cm	0.3-0.7 BAR

Flow	Smartflow
10-15 GPM	7-11 GPM
38-57 LPM	27-42 LPM

Color Choices: Colors as shown

WATER EFFECTS

- Jet stream (13)

REVISED: 29/08/2016



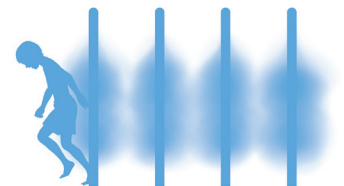
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Ideal age group: For all ages

VOR 0518 SPRAY LOOPS



PRODUCT HIGHLIGHTS

- Cross through the misty water effect for an instant soak
- Encourages different types of game playing



*Run into a mist
of fun!*

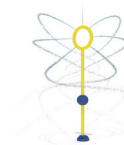
You may also like



• Aqua Dome N°1
(VOR 0555)



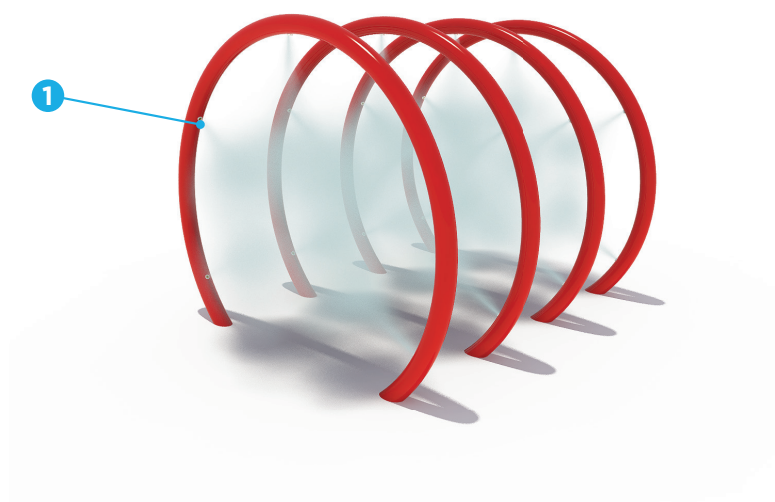
• Waterbug N°4
(VOR 7661)



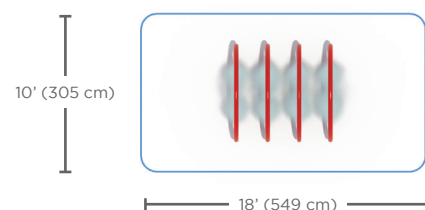
• Sunspray N°1
(VOR 7578)



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Spray Zone



H/W/L	Pressure
64 /76/76 in	10-25 PSI
162/193/193 cm	0.7-1.7 BAR

Flow	Smartflow
40-60 GPM	20-40 GPM
151-227 LPM	76-151 LPM

Color Choices: Vortex colors or polished

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



TRIFLOW™ NOZZLE

- One nozzle, three different water effect options
- Stainless Steel
- Adjustable 360° cone spray
- Internal diffuser for soft safe spray effect
- Sleeved for easy removal and replacement
- Tapered edges so it won't catch on anything

WATER EFFECTS

- Misty water jet (5)

Features, anchoring systems and hardware are made of 100% recyclable stainless steel, including at least 25% post-consumer recycled content.



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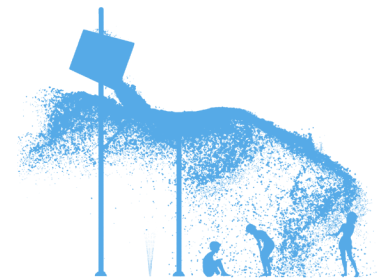


Ideal age group: 4 years and up

VOR 0130 SUPERSPLASH N°2

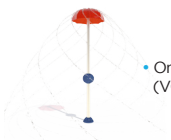
PRODUCT HIGHLIGHTS

- Builds anticipation as the bucket fills and spills over
- Massive water splash that excites everyone
- Encourages communicative and interactive experiences
- Provides a visual experience by casting colorful shadows with the Seeflow™



*Get ready to be
super splashed!*

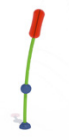
You may also like



• Ombrello Twirl N°1
(VOR 7446)



• Ombrello Spin N°2
(VOR 7449)



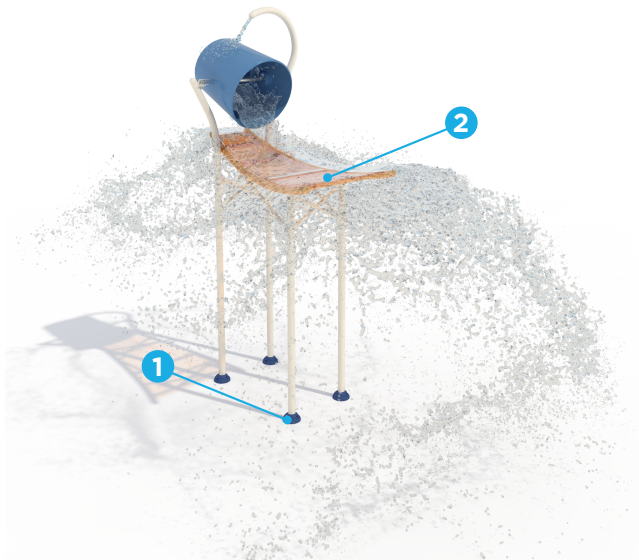
• Cattail Twirl
(VOR 7782)



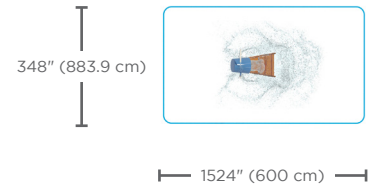
• Loop N°1
(VOR 7553)



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Spray Zone



H/W/L	Pressure
251/88/129 in	10-15 PSI
637/223/326 cm	0.69-1.03 BAR

Flow	Smartflow
25-38 GPM	-
94.6-143.9 LPM	-
Color Choices: Vortex colors or polished	

VORTEX EXCLUSIVE TECHNOLOGIES

This product features the following technologies that are unique to Vortex.



TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post



SEEFLOW™

- Impact-resistant polymer
- Resistant to UV rays and chemicals
- Colorful reflections are created with the combination of bright colors, water, and sunlight
- Manufactured with up to 40% pre-consumer recycled materials
- Reusable at the end of life

WATER EFFECTS

- Cascade (1)



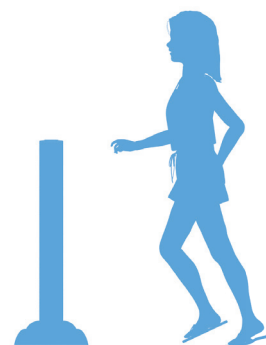
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Ideal age group: 4 years and up

VOR 0611 BOLLARD ACTIVATOR N°3

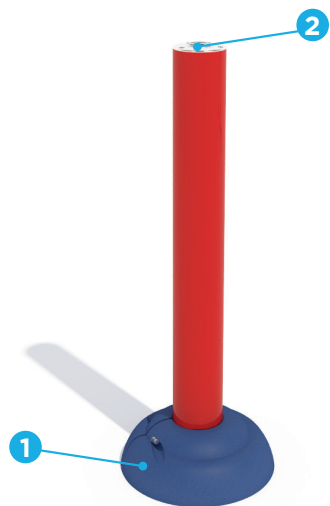


PRODUCT HIGHLIGHTS

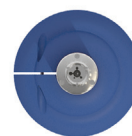
- Enables to activate the water sequence of play features
- Controls water consumption and helps reduce waste



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Top View



H/W/L	Pressure
39/14/14 in 99/36/36 cm	0 PSI

Flow	Smartflow
0 GPM 0 LPM	- -

Color Choices: Vortex colors or polished

VORTEX EXCLUSIVE TECHNOLOGIES

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TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post



PRESS & PLAY ACTIVATOR

- On-demand activation saves water
- Constructed of durable stainless steel - vandal resistant
- No moving parts
- Low voltage - safe fun
- 2 wire connection - easy installation
- Easy operation - for kids of all ages & abilities

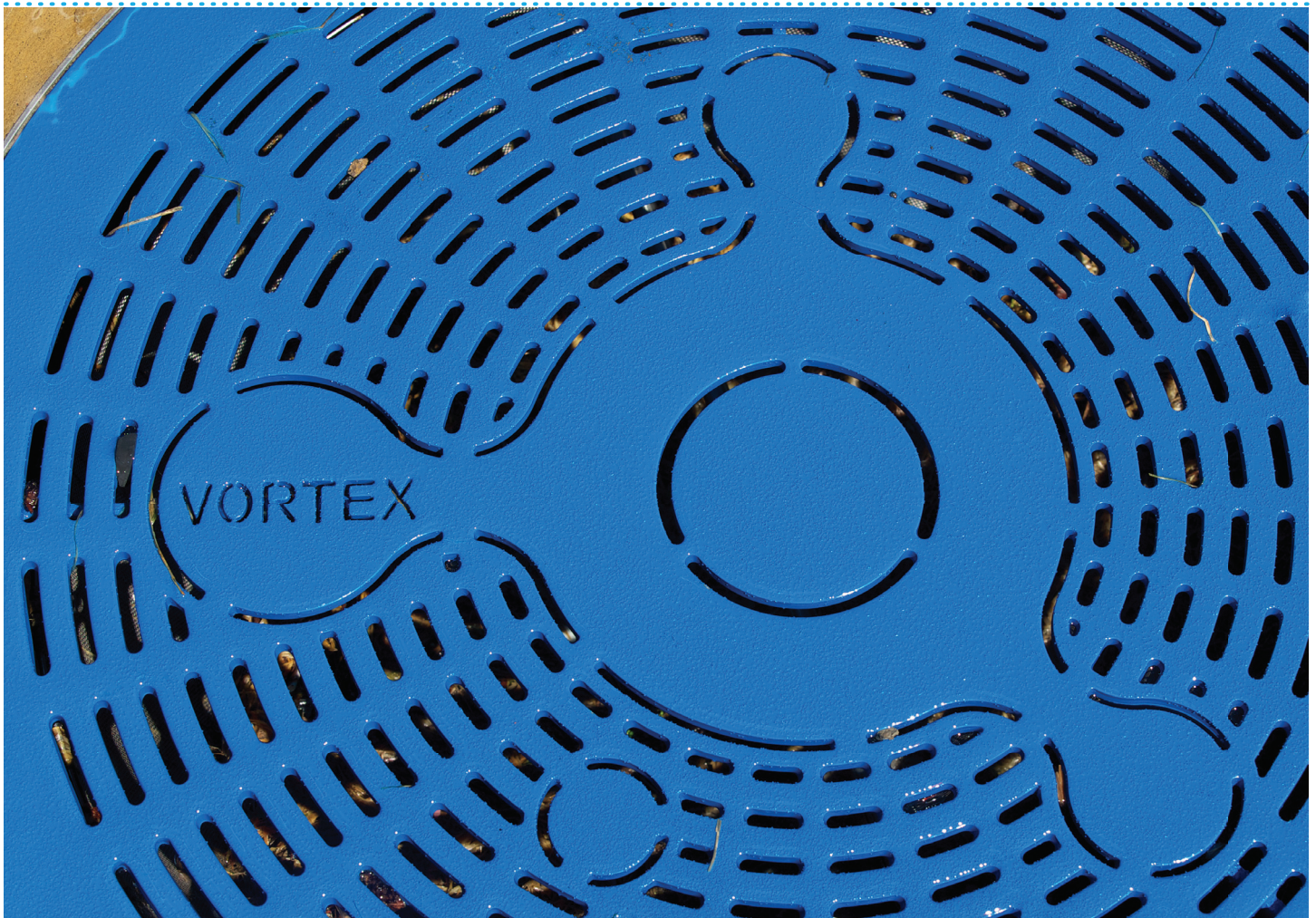


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Proposed as - Equivalent to Water Play 'ACTIVATOR POWER POST'

PLAYSAFE™ DRAIN

WATER MANAGEMENT COMPONENT

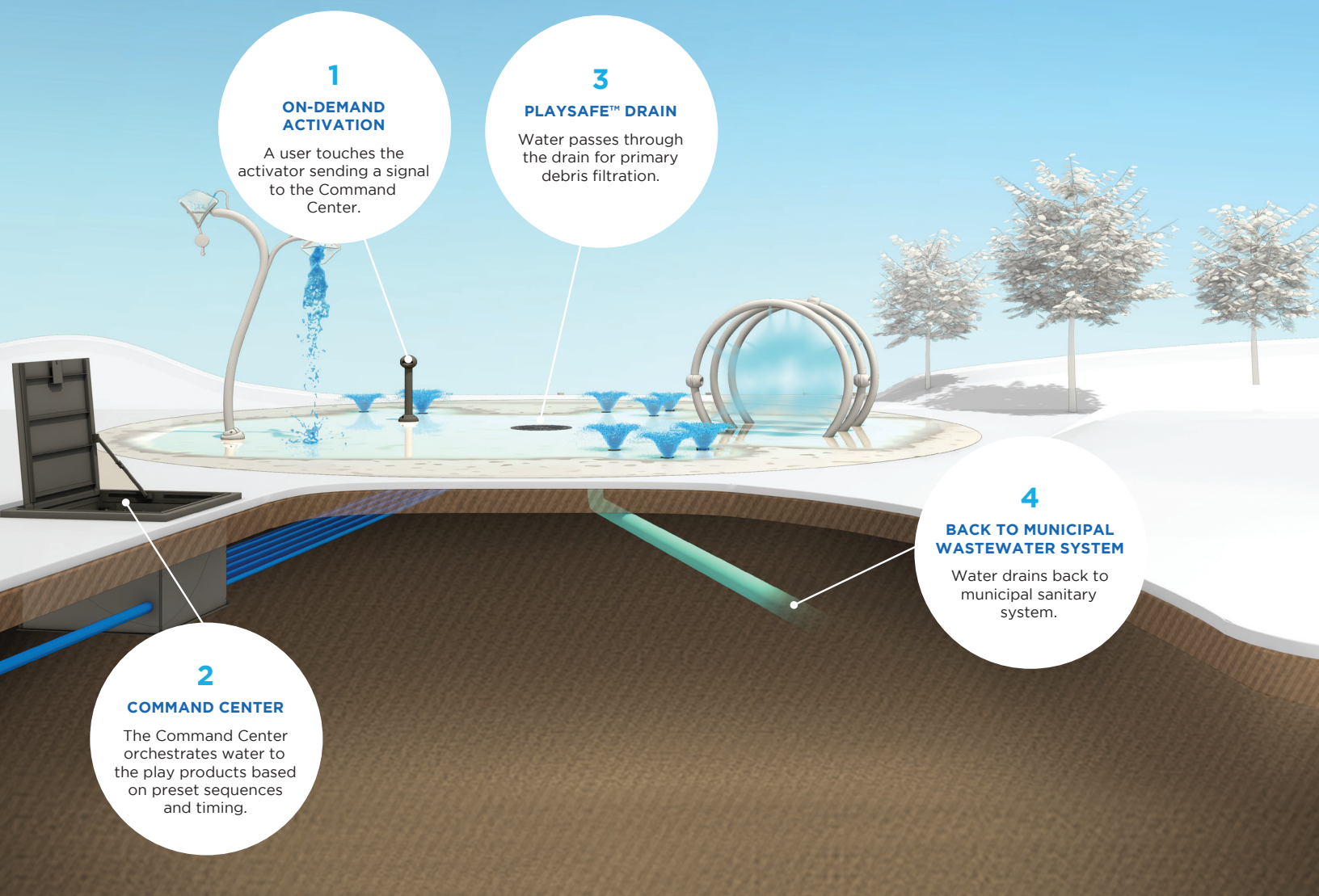


PLAYSAFE™ DRAIN

- Primary filter of debris
- Safe for small toes and skid resistant
- Stainless steel construction and high flow rate capacity



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FLOW-THROUGH

SIMPLIFY THE FUN

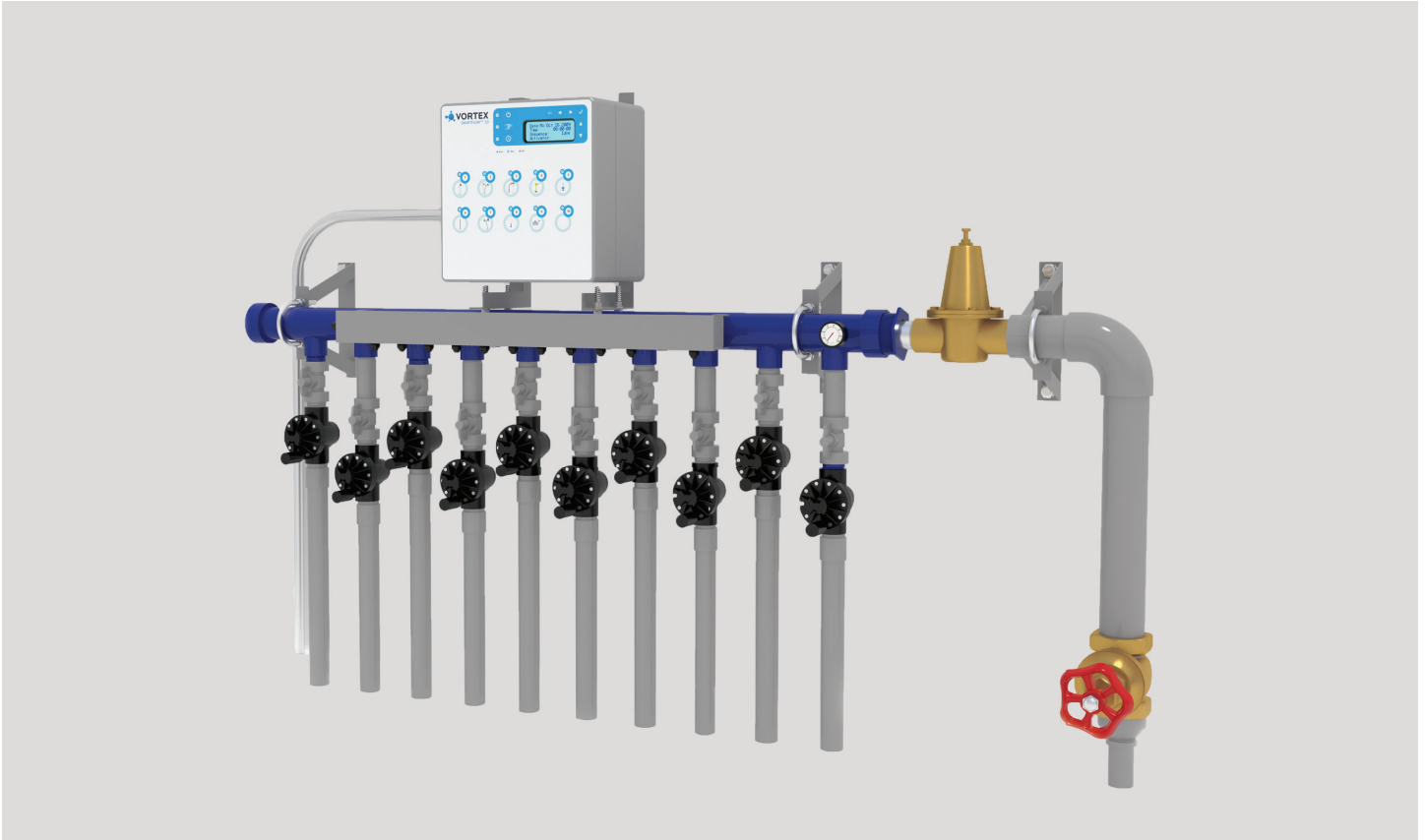
Flow-through systems are easy to operate, low maintenance and eco-friendly solutions to manage water use for Splashpad® or Spraypoint®. These systems use potable water that goes through the play area. Effluent water is then returned to the municipal wastewater system.



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WALL MOUNTED

COMMAND CENTER



WALL MOUNTED

- Ideal for housing inside an existing building
- Preassembled system with mounting brackets for easy installation
- Stainless steel manifold
- Easy access for solenoid valves maintenance



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THIS SHEET COVERS ALL THE MANIFOLD RANGE
WITH INTERVAL OF 5 VALVES

- NOTE:**
- SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL.
 - REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
 - IF CONTROLLER IS REMOTE LOCATED, CONDUCTORS # 18 AWG AT 10' LONG PROVIDED FOR THE CONTROLLER BY VORTEX. FOR QUANTITY SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL.
 - WATER OUTLETS ARE FEMALE NPT CONNECTIONS
 - BY INSTALLER/BY CONTRACTOR MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER.PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.

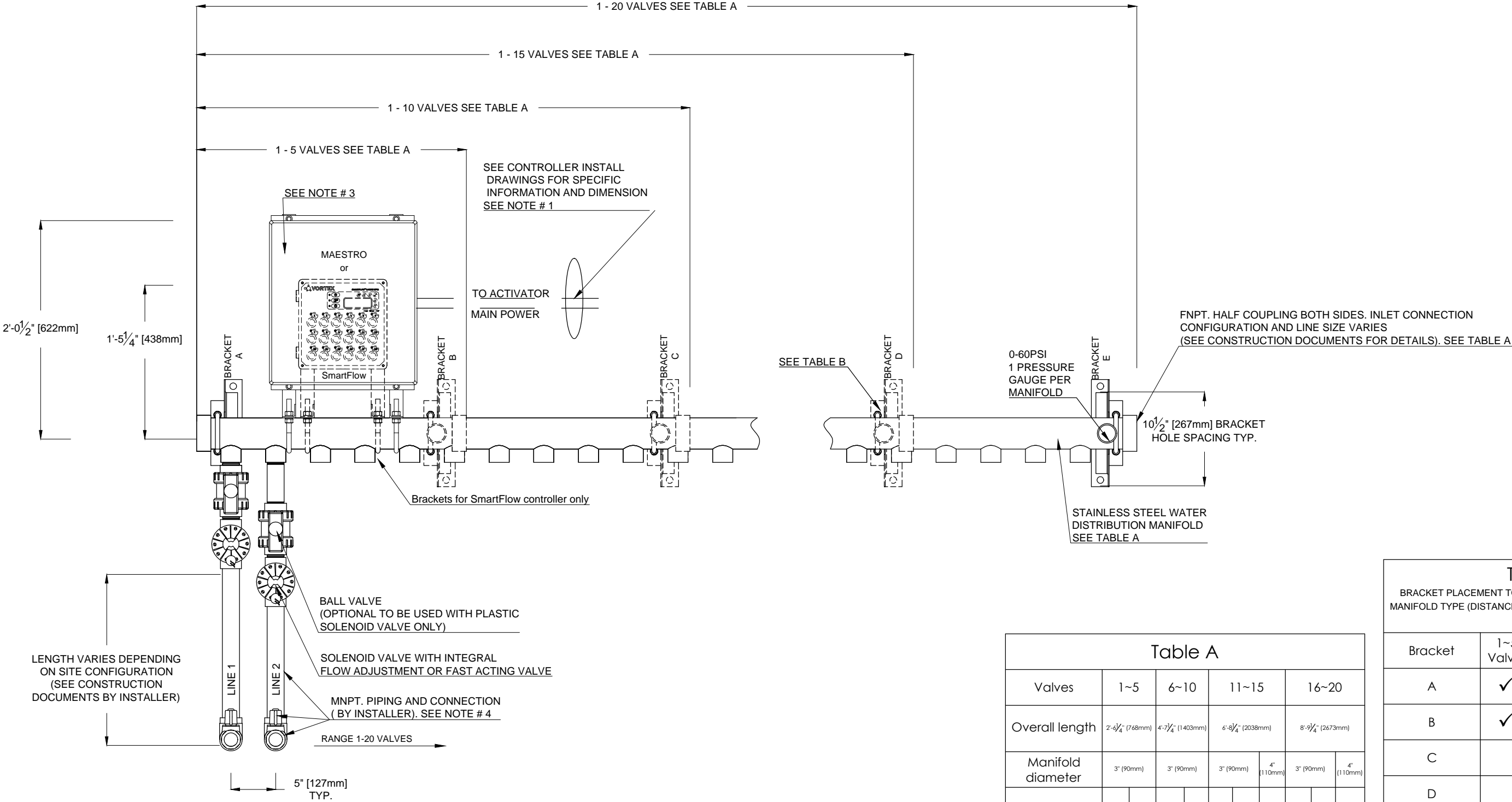


Table A					
Valves	1~5		6~10		11~15
Overall length	2'-6 ³ / ₄ " (768mm)		4'-7 ¹ / ₄ " (1403mm)		6'-8 ¹ / ₄ " (2038mm)
Manifold diameter	3" (90mm)		3" (90mm)		4" (110mm)
	3" (90mm)		3" (90mm)		4" (110mm)
Inlet diameter	2" (63mm)		2" (63mm)		3" (90mm)
	3" (90mm)		3" (90mm)		4" (110mm)

Table B				
BRACKET PLACEMENT TO BE SELECTED WITH RESPECT TO MANIFOLD TYPE (DISTANCE BETWEEN BRACKETS : 2'-1" (640mm) TYP.)				
Bracket	1~5 Valves	6~10 Valves	11~15 Valves	16~20 Valves
A	✓	✓	✓	✓
B	✓			
C		✓	✓	✓
D			✓	
E				✓

PRODUCT NAME: WALL MOUNTED COMMAND CENTER WITH INTERVAL OF 5 VALVES POSITIONS , MAESTRO OR SMART FLOW CONTROLLER

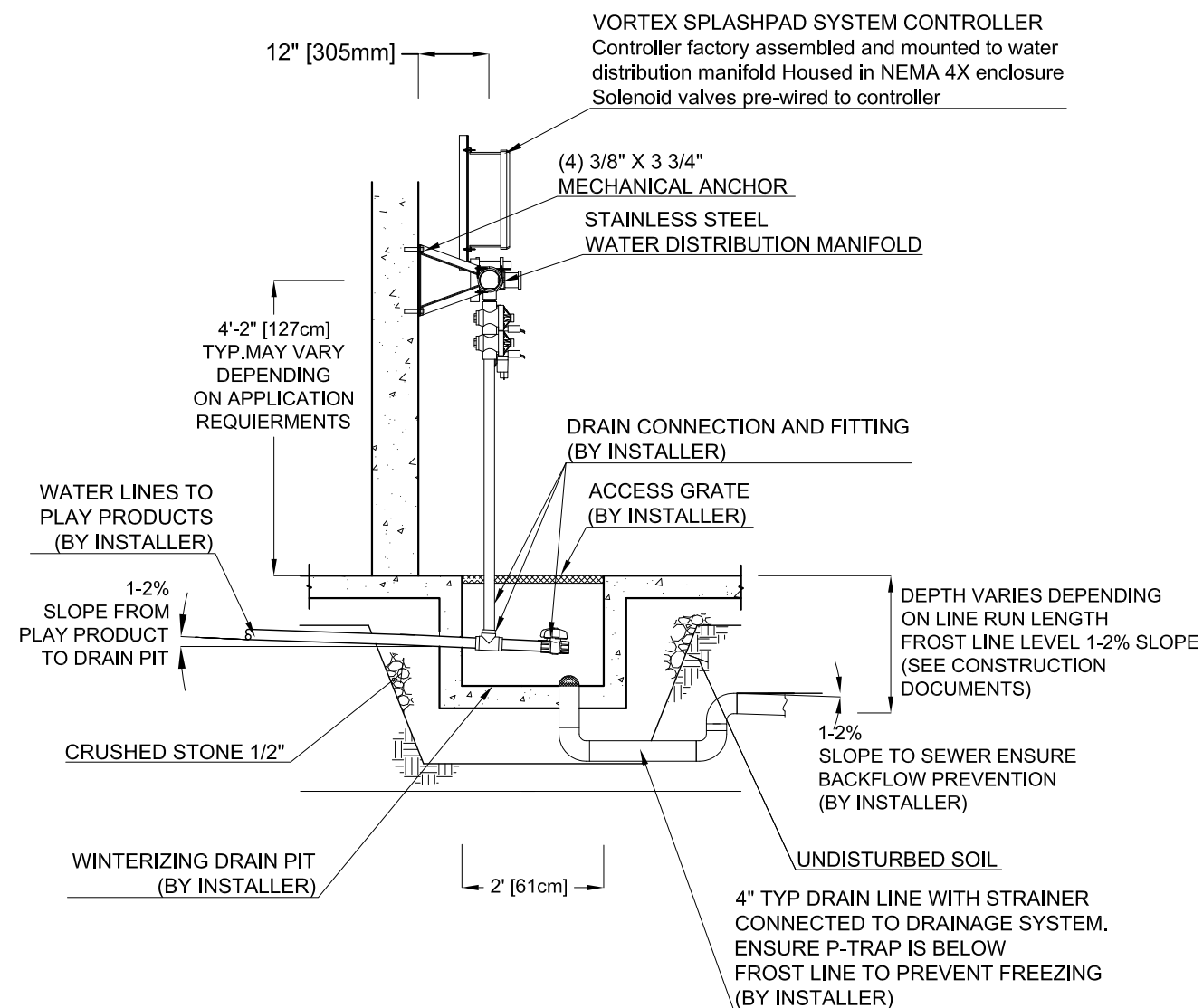
PRODUCT NUMBER: D800.0000R01

DATE: 07/22/16

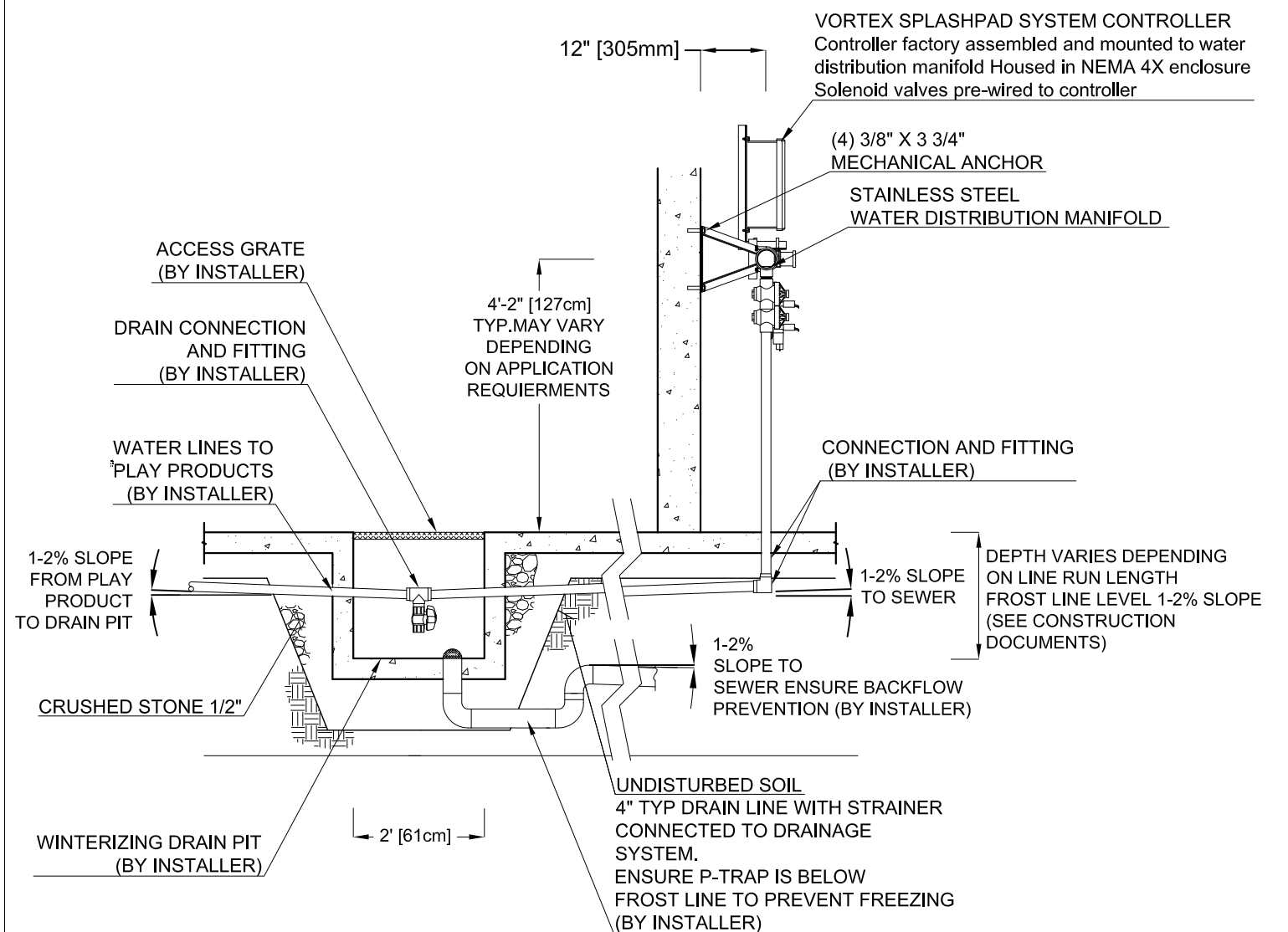
SHEET NO: 1/2

11"x17" SHEET SIZE





TYPICAL WINTERIZING DRAINAGE CONFIGURATION LAYOUT



ALTERNATE WINTERIZING DRAINAGE CONFIGURATION LAYOUT

PRODUCT NAME: WALL MOUNTED COMMAND CENTER WITH INTERVAL OF 5 VALVES POSITIONS , MAESTRO OR SMART FLOW CONTROLLER

PRODUCT NUMBER: D800.0000R01

DATE: 06/17/15

SHEET NO: 2/2

11"x17" SHEET SIZE



SMARTFLOW™ LOGICS CONTROLLER

VORTEX TOUCHPAD USER INTERFACE TECHNOLOGY

The Smartflow™ Logics Controller optimizes water usage while maximizing play value. User-friendly and cost efficient solution, it is best suited for Splashpads® with flow-through water management systems.



HIGHLIGHTS

- Visual graphic user interface
- Rain diverter function capability
- Simplified wiring with connector
- Reduction of water hammer issues through soft start/stop transitions within sequences
- Over current/short circuit protection device on individual output circuits
- Nema type 4 enclosure with tactile membrane keypad for durability
- Possible sequence change through factory provided data key
- Up to 3 Actuator inputs available
- Options available for 10 or 18 valves
- UL 508A certified
- Additional electrical connections required



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Vortex Installations



British Columbia

Quesnel Water Park, City of Quesnel 2001
Chilliwack Leisure Centre, Leisure Aquatics 2001
Sungod Aquatic Centre, Corp. of Delta 2002
Civic Plaza Fountain, Courtenay 2002
Harewood Centennial, City of Nanaimo 2003
Sunvalley, City of Port Coquitlam 2003
Lewis Water Park, City of Courtenay 2003
Karen Magnussen Pool, District of Vancouver 2003
Mahon Splashpad, City of North Vancouver 2003
Cumberland splashpad, Village of Cumberland 2003
Mission Leisure Splashpad, District of Mission 2004
McGowan Park Splashpad, City of Kamloops 2004
Heritage Woods Splashpad, City of Port Moody 2004
Walnut Grove Indoor Pool, Township of Langley 2004
Annieville Splashpad, Corp. of Delta 2004
Armstrong Splashpad, City of Armstrong 2004
Steveston Park Splashpad, City of Richmond 2007

Vortex Installations



British Columbia

Ferland Park Splashpad, Village of Vanderhoof 2009

Mill Lake Park, City of Abbotsford 2009 *Signature Splashpad*

Edmonds Pool, City of Burnaby 2010

Viewlynn Park, District of North Vancouver 2011

Veterans Memorial Park Splashpad, City of Langford 2014

Cameron Park Splashpad, City of Burnaby 2014

City of New Westminster, Timber Wharf Project 2015

Rocky Point Splashpad Retrofit 2015

UBC Aquatic Centre New Pool, Features supplied 2015

City of Nanaimo, Beban Park Pool, Features supplied 2015

Iqaluit Aquatic Centre, Features supplied 2015



SEEFLOW™

- Impact-resistant polymer
- Resistant to UV rays and chemicals
- Colorful reflections are created with the combination of bright colors, water, and sunlight
- Manufactured with up to 40% pre-consumer recycled materials
- Reusable at the end of life



TOEGUARD™

- Soft-touch Elastomer
- Protects children's toes from anchoring hardware
- Durable, vandal resistant, resistant to chemicals
- Infused with a UV resistant bright color
- Available in one or two pieces ensuring tight fit to post



LINEFLOW™ NOZZLE

- Precisely orient the stream of water with the internal Brass marble
- Compact design provides better product integration
- Easy to adjust for the most efficient use of water based on your installation
- Made of lead-free brass for maximum durability



PODSPRAY™ (ON PRODUCT)

- Simply press to send water to another nozzle on the same feature
- Combine multiple pods and features to create team play
- Lead-free brass for maximum durability



FUNFLOW ACTUATOR™

- Interactive cause & effect
- Encourages Collaborative Play
- Step on the cap to divert and multiply the water to another feature
- Low flow when not pressed to help save water
- No electrical required - simple installation



PODSPRAY™ (GROUND)

- Simply step on or press to send water to another feature
- Increase flow to attached features to increase play value - connected features spin faster, spray farther, dance higher
- Combine multiple pods and features to create team play
- Lead-free brass for maximum durability



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TURNTEC™

- Easy turning for kids of all ages and abilities
- Lead-free brass for maximum durability - heat resistant
- 360° rotation - no mechanical stops to break
- Adjustable spray zone - control the area where water begins and stops
- Corrosion and chemical resistant



SAFESWAP™ ANCHORING SYSTEM

- Attractive ground caps are substituted for future play products
- Easily add future play elements with no change to infrastructure
- Easily move products from one location to another at no additional cost
- Provides flexibility to spread investment over time as capital becomes available
- Structural stainless steel base for maximum strength
- Optional interim spray cap (as shown)



SPINTEC™

- Kids can stand or sit on the platform while pushing off the ground to make the platform spin
- Creates impressive spiraling water effect
- Manufactured with damper speed system that controls spinning speed



PRESS & PLAY ACTIVATOR

- On-demand activation saves water
- Constructed of durable stainless steel - vandal resistant
- No moving parts
- Low voltage - safe fun
- 2 wire connection - easy installation
- Easy operation - for kids of all ages & abilities



TWIRLTEC™

- Kids spin the round handle to create a spiraling water effect overhead
- Soft-touch Elastomer
- Interactive Cause and Effect
- Friction-free, triple bearing system



TWIRLFLOW™

- Two linear jets that create one twirling water effect from the water pressure
- 360° water jet creating a fragmented water splash, promoting dynamic play
- Visually captivating circular water movement
- Made of UHMW for superior durability



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SOUTH SURREY ATHLETIC PARK IMPROVEMENTS

PHASE 2 - RE-ISSUED FOR TENDER

OWNER
THE CITY OF SURREY:
THE CITY OF SURREY
13450 - 104 AVENUE
Surrey, BC, Canada V3T 1V8
Contact: Ted Ulrich
Email: TLUhrich@surrey.ca
Tel: 604-598-5706

CONSULTANTS
LANDSCAPE and LEAD:
ISL ENGINEERING
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Burnaby, B.C. V5C 6A8
Contact: Andrew Robertson
Email: arobertson@islengeering.com
Tel: 604-629-2696

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Burnaby, B.C. V5C 6A8
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Email: cboit@islengeering.com
Tel: 604-629-2696

STRUCTURAL
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#503, 4190 Lougheed Highway,
Burnaby, B.C. V5C 6A8
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Email: jtong@islengeering.com
Tel: 604-629-2696

IRRIGATION:
ION IRRIGATION MANAGEMENT INC.
2432 91st Avenue SE
Calgary Alberta T2C 5H2
Contact: Mike Magill
Email: Mike.Magill@ionirrigation.com
Tel: 403-301-4105

MECHANICAL:
ISL ENGINEERING
#503, 4190 Lougheed Highway,
Burnaby, B.C. V5C 6A8
Contact: Ashraf Rayyan
Email: arayyan@islengeering.com
Tel: 604-629-2696

ELECTRICAL:
ISL ENGINEERING
7909 51 Ave NW
Edmonton, AB T6E 5L9
Contact: Abhishek Garg
Email: agarg@islengeering.com
Tel: 780-438-9000

CIVIC ADDRESS:
SOUTH SURREY ATHLETIC PARK:14601 - 20 AVENUE, SURREY, BC

LEGAL ADDRESS:
LOT 3, SEC 15, TOWNSHIP 1, PLAN 83184, (EXCEPT PLAN LMP36078) NWD.

DRAWING INDEX	
LANDSCAPE:	
Sheet No.	Sheet Name
L0.0	COVER SHEET
L1.0	LANDSCAPE NOTES
L2.0	EX. CONDITIONS & DEMO. PLAN
L2.1	DETAIL KEY PLAN
L3.0	LAYOUT PLAN
L3.1	LAYOUT PLAN AREAS
L4.0	GRADING PLAN
L4.1	GRADING PLAN AREAS
L5.0	PLANTING PLAN - FOR INFORMATION PURPOSE ONLY
L6.1	DETAILS 1 - SURFACING
L6.2	DETAILS 2 - STAIRS & WALLS
L6.3	DETAILS 3 - FENCE
L6.4	DETAILS 4 - FURNISHING
L6.5	DETAILS 5 - PLANTING - FOR INFORMATION PURPOSE ONLY

CIVIL:	
Sheet No.	Sheet Name
C1.0	PHASE 2 GENERAL NOTES
C2.0	PHASE 2 UTILITIES
C3.0	SOUTH PARKING LOT

STRUCTURAL	
Sheet No.	Sheet Name
S10	STRUCTURAL GENERAL NOTES
S11	STRUCTURAL DETAILS 1 - STAIRS AND WALLS
S12	STRUCTURAL DETAILS 2 - FENCE

IRRIGATION:	
Sheet No.	Sheet Name
IR-01	IRRIGATION PLAN - FOR INFORMATION PURPOSE ONLY
IR-02	IRRIGATION DETAILS - FOR INFORMATION PURPOSE ONLY

MECHANICAL:	
Sheet No.	Sheet Name
ME-1	PAD LAYOUT CONNECTION PLAN
ME-2	MECHANICAL ROOM KIOSK

WATERPLAY MECHANICAL	
Sheet No.	Sheet Name
M-1	WATERPLAY CONCEPT LAYOUT
M-2	WATERPLAY PAD LAYOUT
M-3	WATERPLAY COMPONENT PLACEMENT
M-4	WATERPLAY PIPING SCHEMATIC

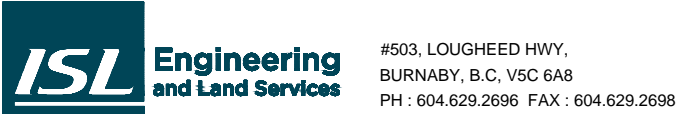
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Sheet No.	Sheet Name
EL-1	ELECTRICAL DESIGN DETAILS
EL-2	ELECTRICAL SITE PLAN

EROSION & SEDIMENT CONTROL	
Sheet No.	Sheet Name
ESC 1.0	EROSION & SEDIMENT CONTROL NOTES
ESC 1.1	EROSION & SEDIMENT CONTROL PLAN
ESC 1.2	EROSION & SEDIMENT CONTROL DETAILS



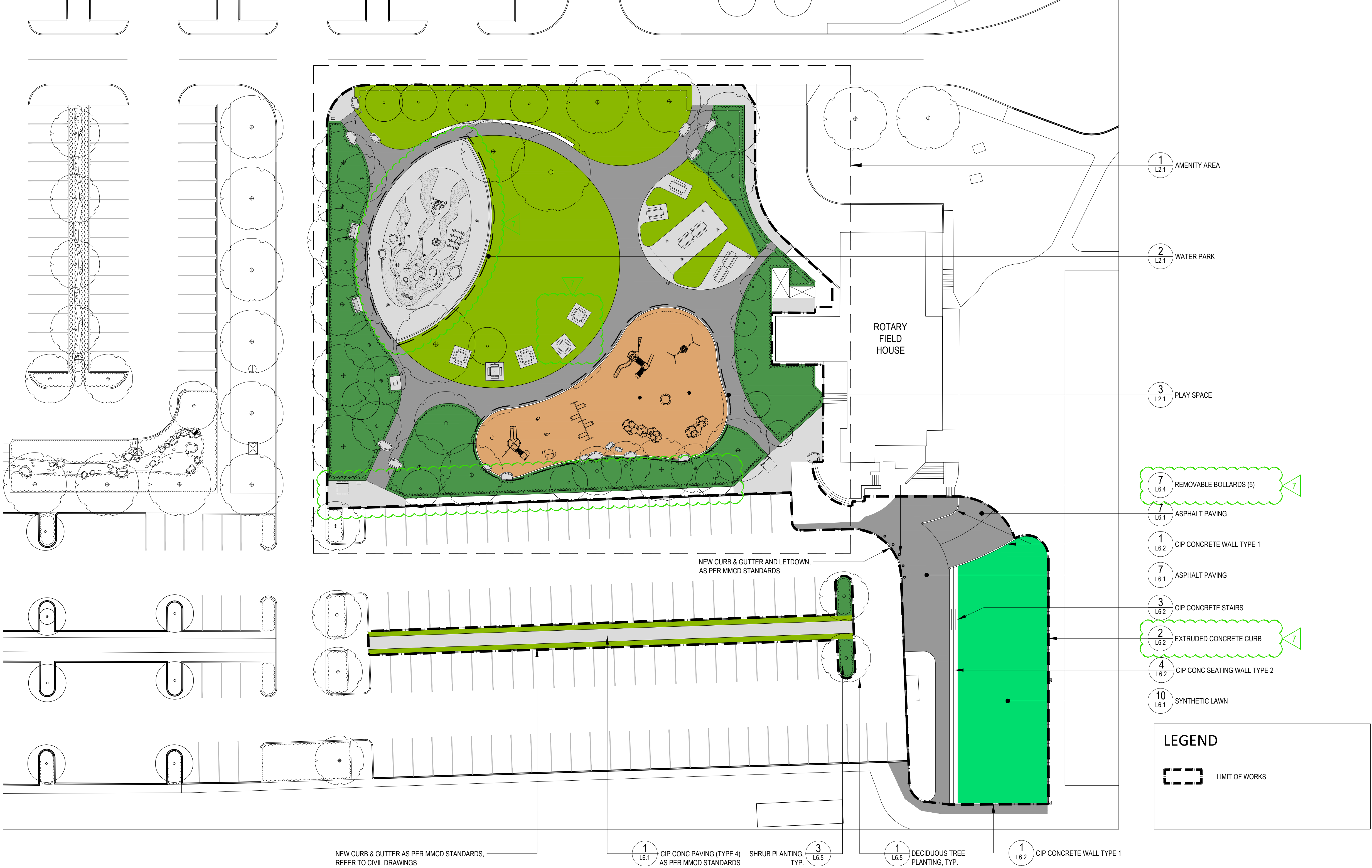
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DATE	JAN-27-15	5	ISSUED FOR FRASER HEALTH PERMIT	JUL 21, 2016	JG	AR	
SCALE	AS NOTED	4	ISSUED FOR BUILDING PERMIT	APR 5, 2016	JG	AR	
		3	ISSUED FOR TENDER	JUL 31, 2015	JG	AR	
		2	ISSUED FOR 95% DD	JUL 10, 2015	JG	AR	
DRAWING No.	31282-	1	ISSUED FOR 80% DD	May 25, 2015	HC	AR	
		No.	REVISION	DATE	BY	CHKD	



COVER SHEET

SHEET No.		THE CITY OF SURREY	
L0.0		TITLE: South Surrey Athletic Park Improvements 14601-20 Ave, Surrey BC	
OF	REV.	SCALE: HOR. VER.	SURREY PROJECT No. -
DESTROY PRINTS BEARING PREVIOUS NUMBER		CHECKED:	SURREY DRAWING No. -



SEAL

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DATE JAN-27-15	5	ISSUED FOR FRASER HEALTH PERMIT	JUL 21, 2016	JG	AR	
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	2	ISSUED FOR 95% DD	JUL 10, 2015	JG	AR	
	1	ISSUED FOR 80% DD	May 25, 2015	HC	AR	
DRAWING No. 31282-	No.	REVISION	DATE	BY	CHKD	



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PH : 604.629.2696 FAX : 604.629.2698

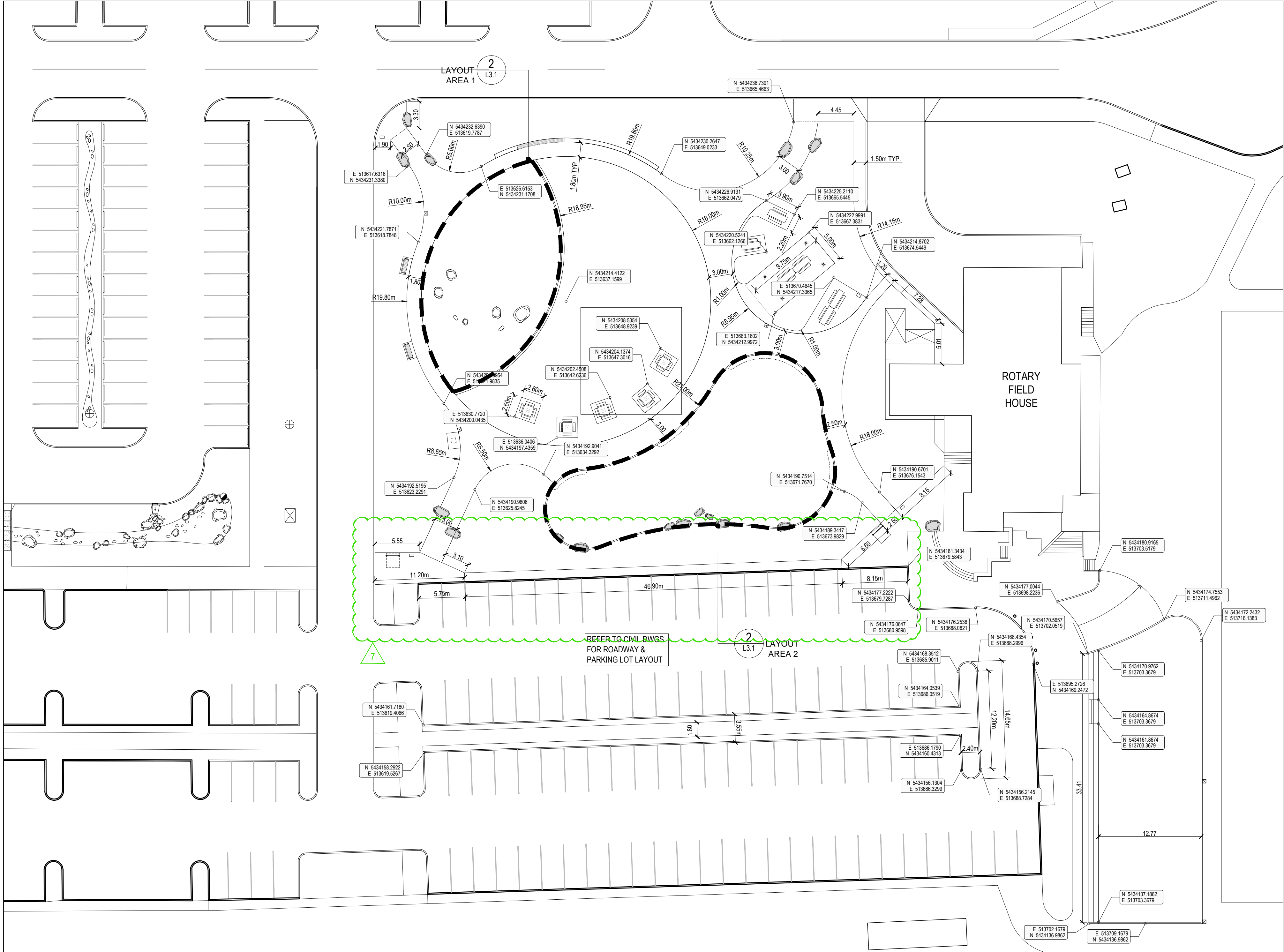
DETAIL KEY PLAN

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OF
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THE CITY OF SURREY
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14601-20 Ave, Surrey BC

SCALE: 1:300
HOR. -
VER. -
CHECKED:
SURREY PROJECT No.
-
SURREY DRAWING No.
-



NOTE: CONSULTANT TO PROVIDE DIGITAL DRAWING FILES FOR CONSTRUCTION LAYOUT



SEAL

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DRAWN -									
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LAYOUT PLAN

SHEET No.
L3.0

THE CITY OF SURREY

TITLE:
South Surrey Athletic Park Improvements
14601-20 Ave, Surrey BC

OF
DESTROY PRINTS BEARING
PREVIOUS NUMBER

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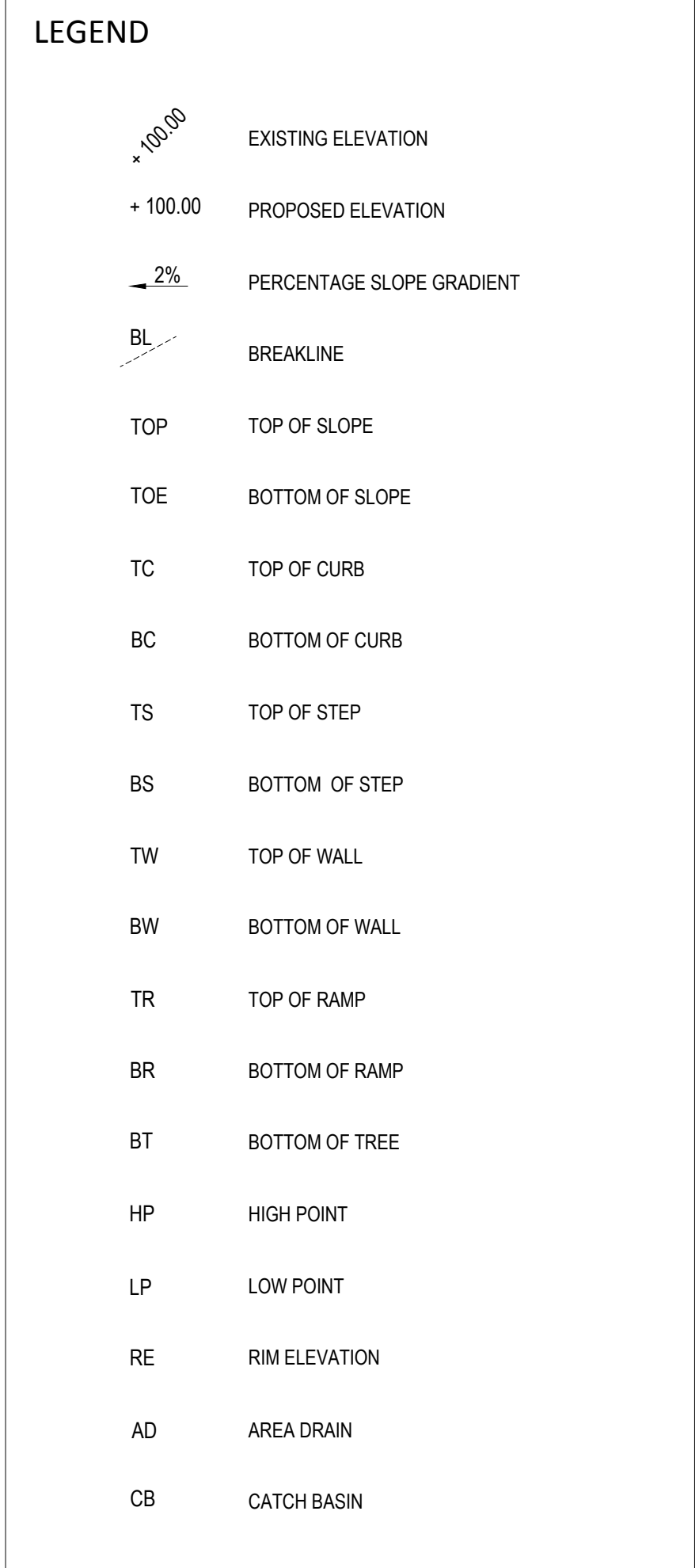
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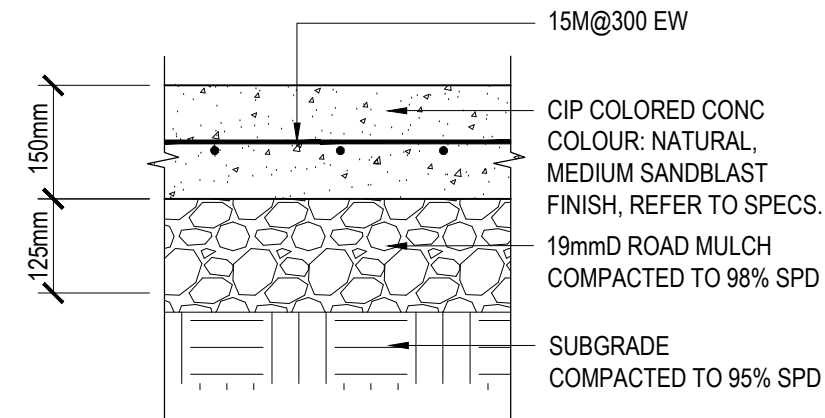
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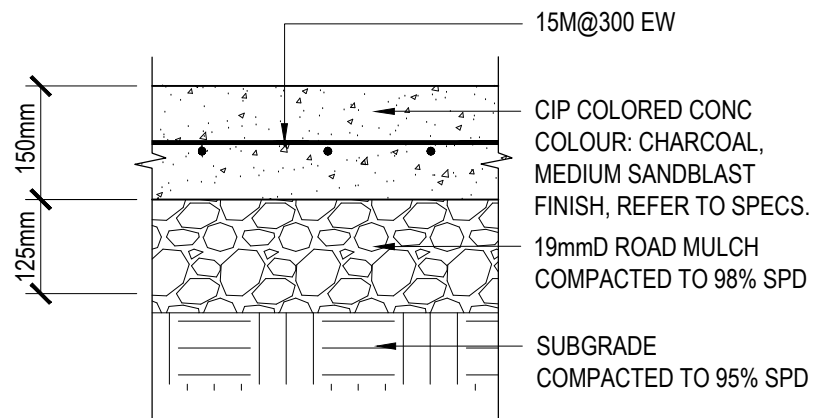
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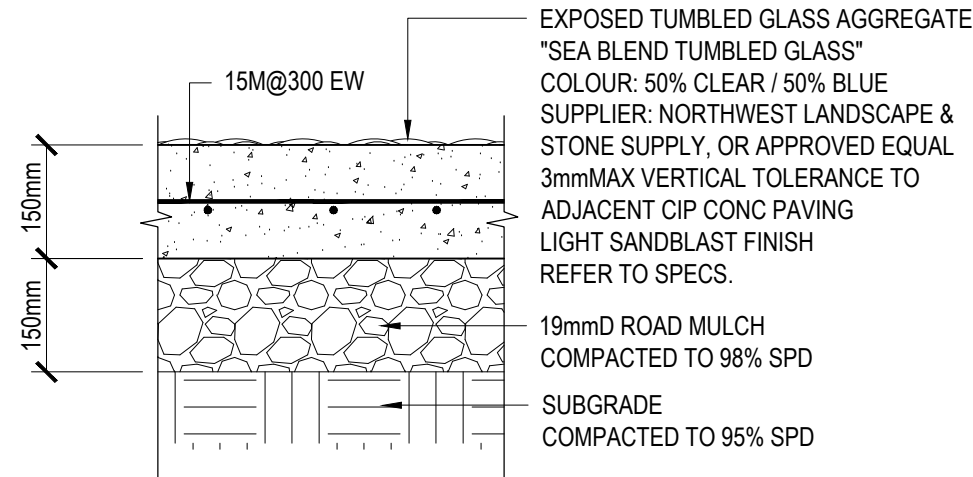




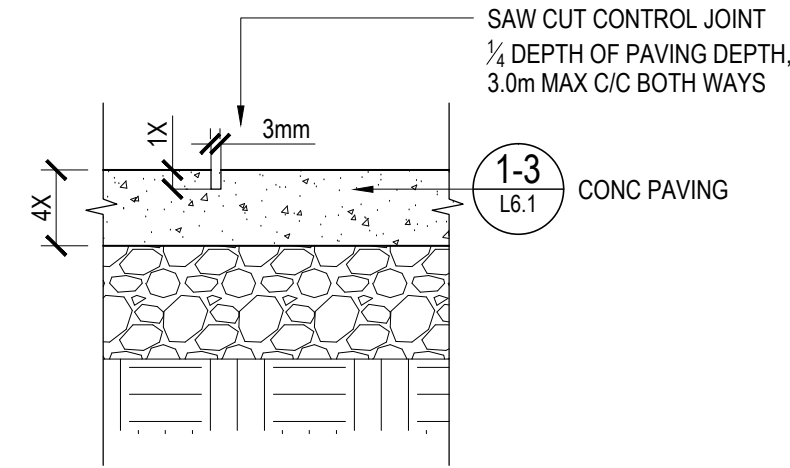
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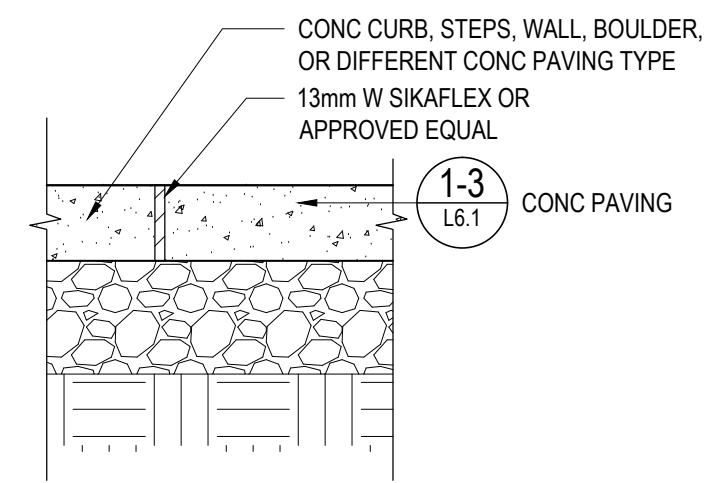
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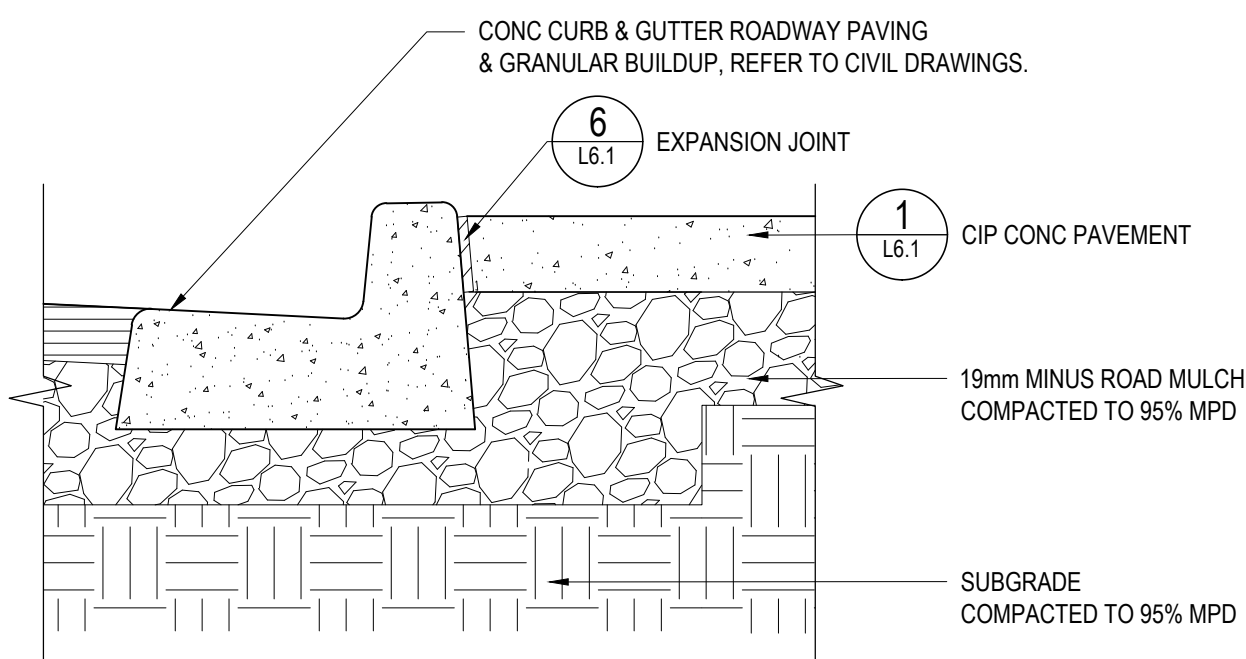
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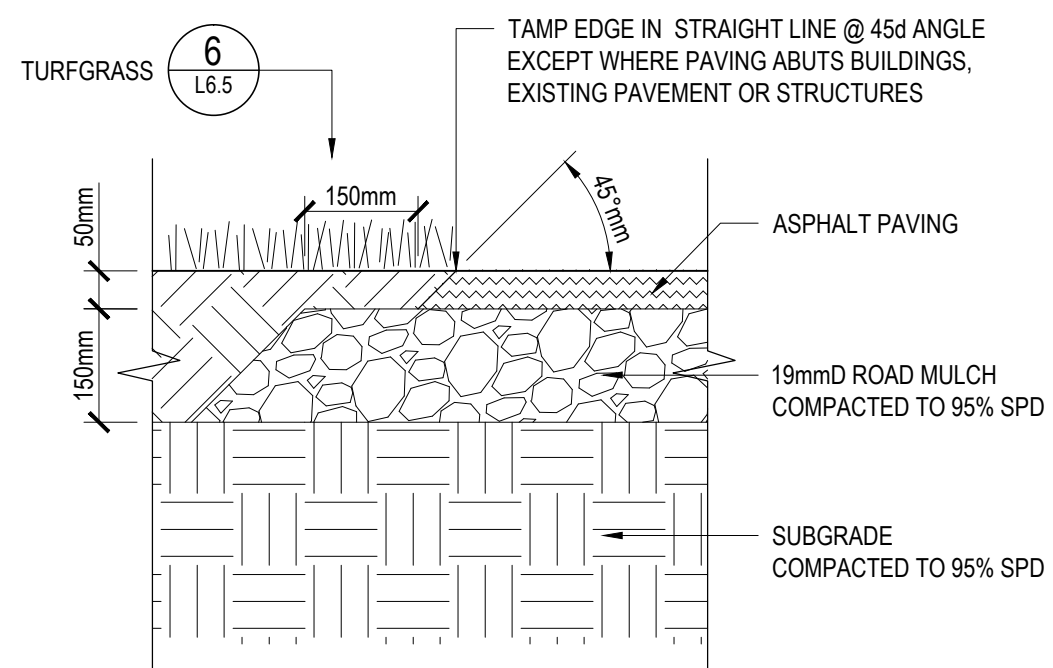
4 CIP CONC. CONTROL JOINT
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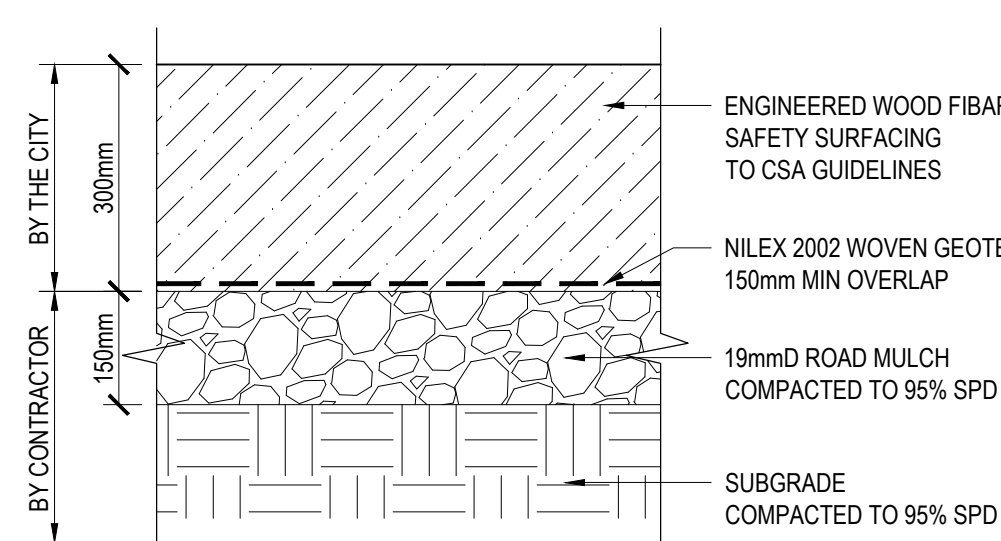
5 CIP CONC. EXPANSION JOINT
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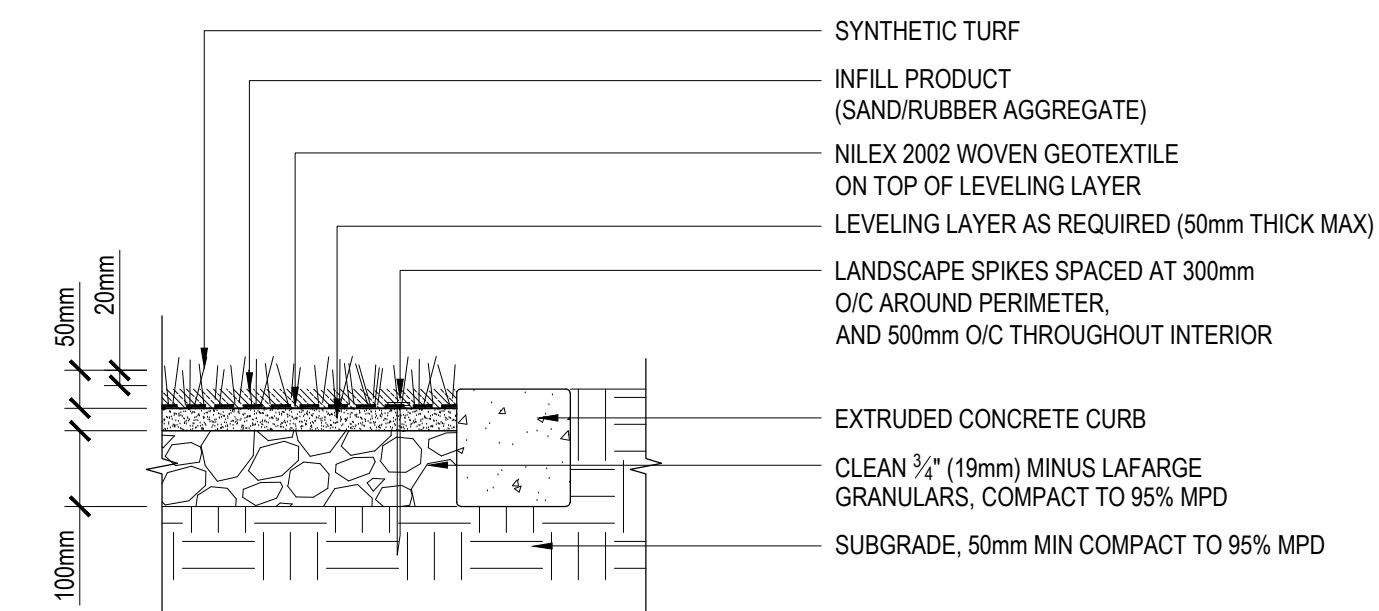
6 CIP CONC PAVEMENT AT CURB
L6.1 SECTION SCALE 1:10



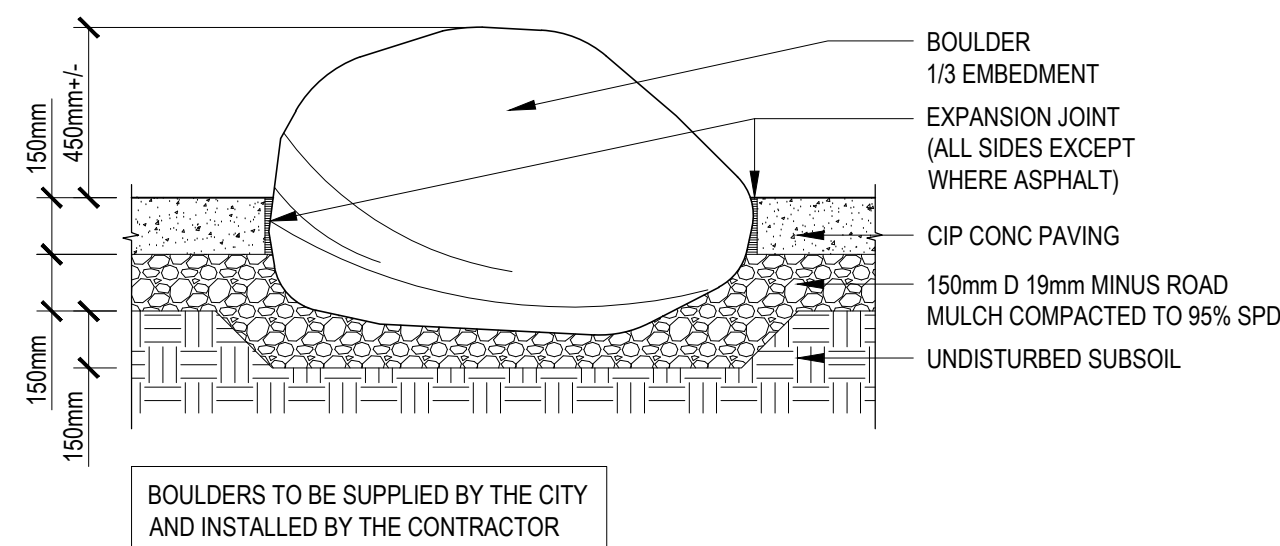
7 ASPHALT PAVING: PEDESTRIAN
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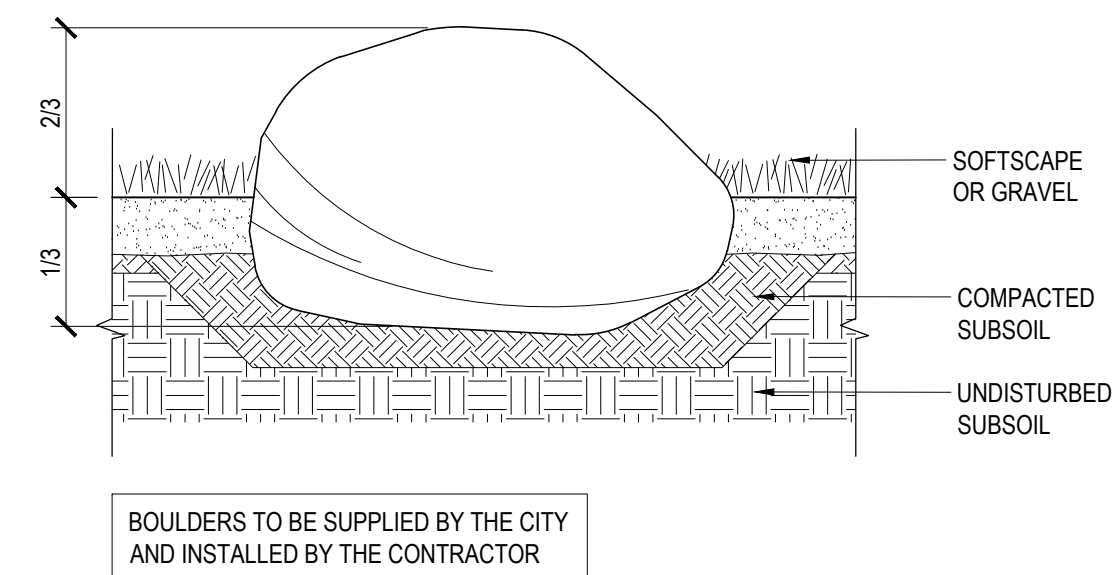
8 FIBAR SURFACING
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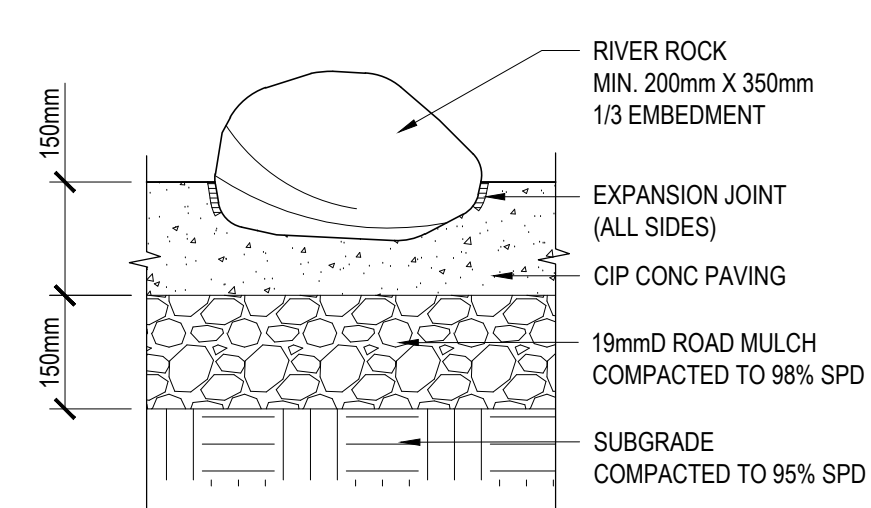
10 SYNTHETIC LAWN
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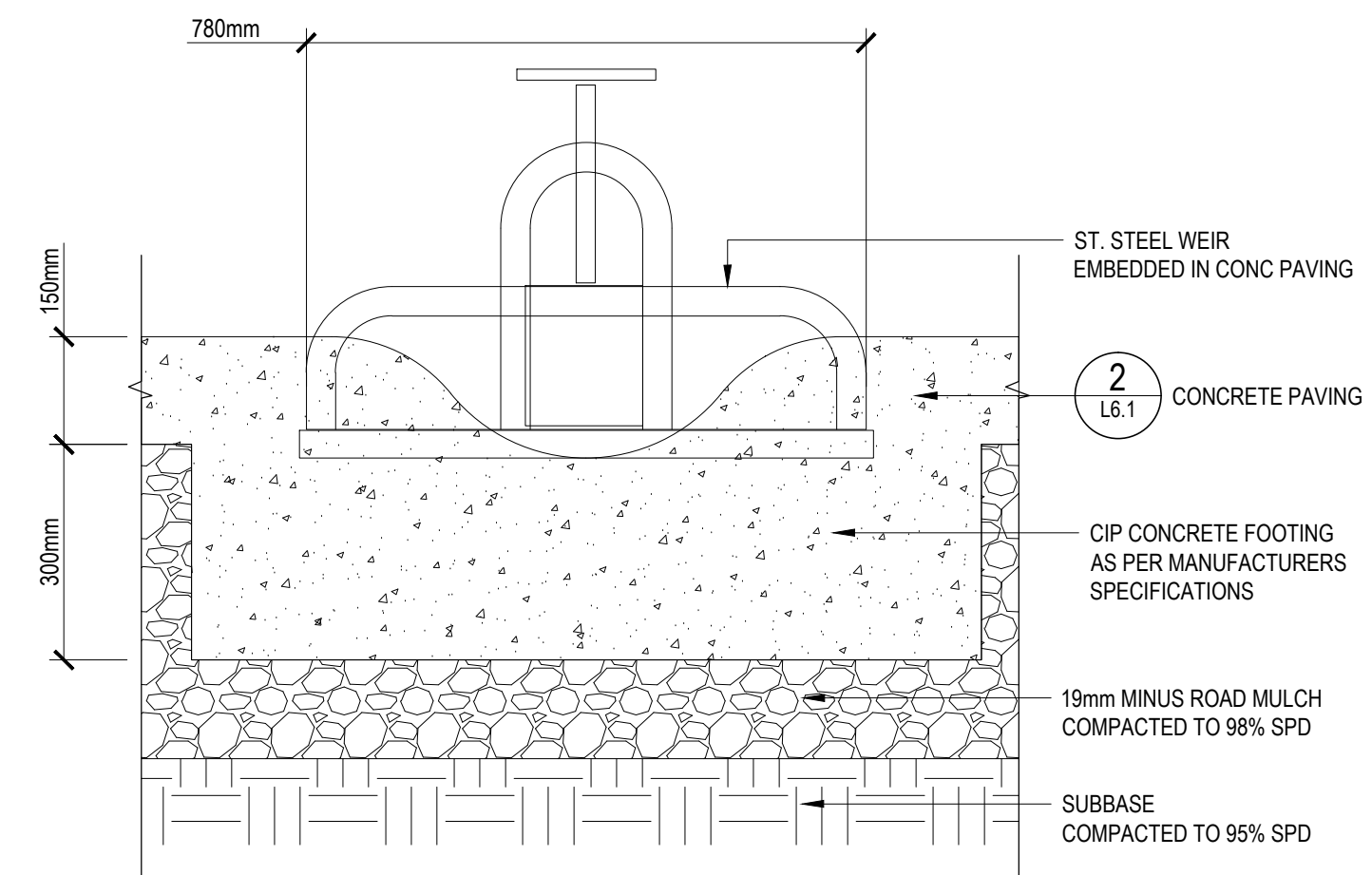
11 BOULDER PLACEMENT IN PAVING
L6.1 SECTION SCALE 1:20



12 BOULDER PLACEMENT IN LAWN
L6.5 SECTION SCALE 1:25



13 RIVER ROCK IN CIP CONCRETE PAVING
L6.1 SECTION SCALE 1:10



14 CHANNEL WIER
L6.1 SECTION SCALE 1:10



SEAL

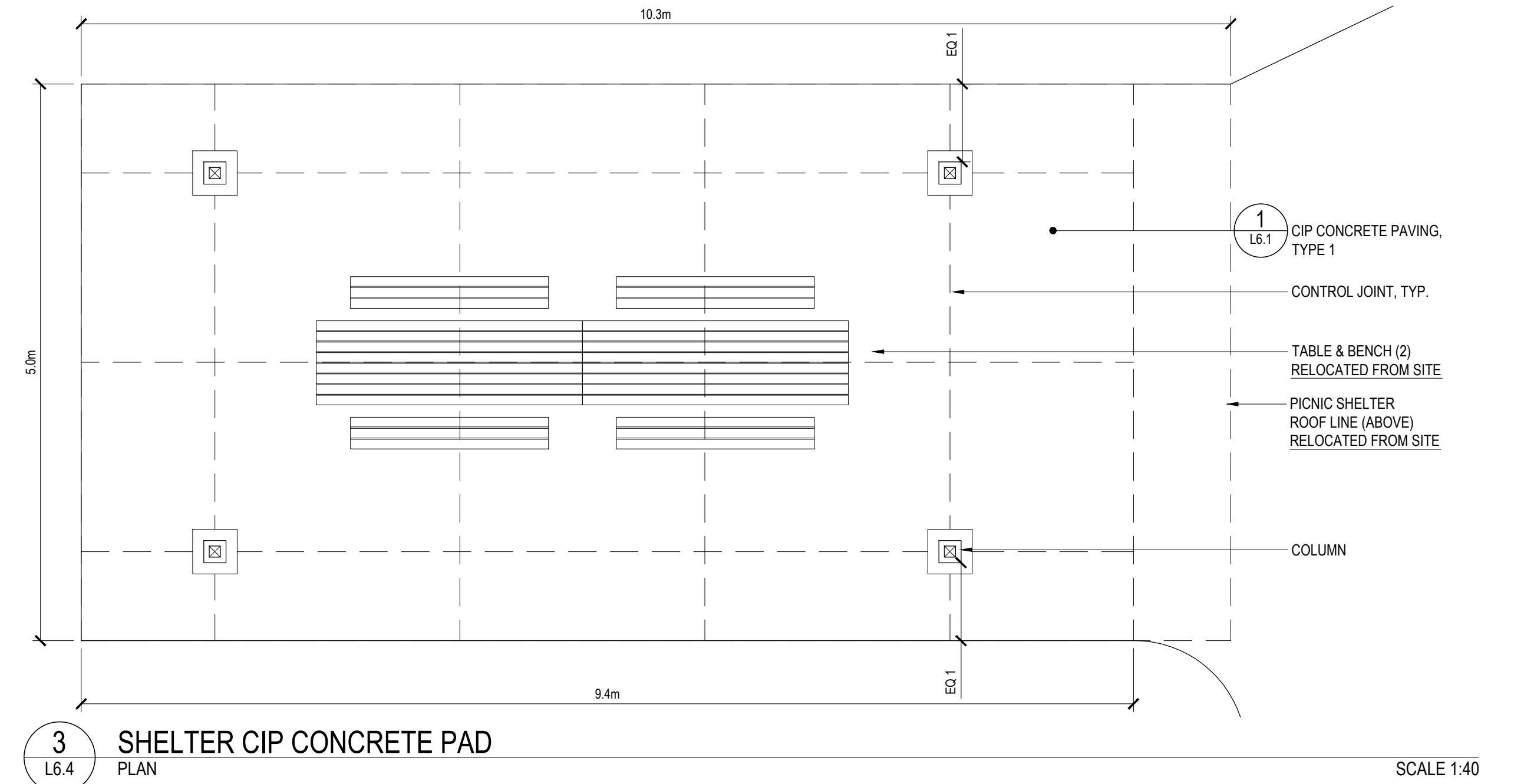
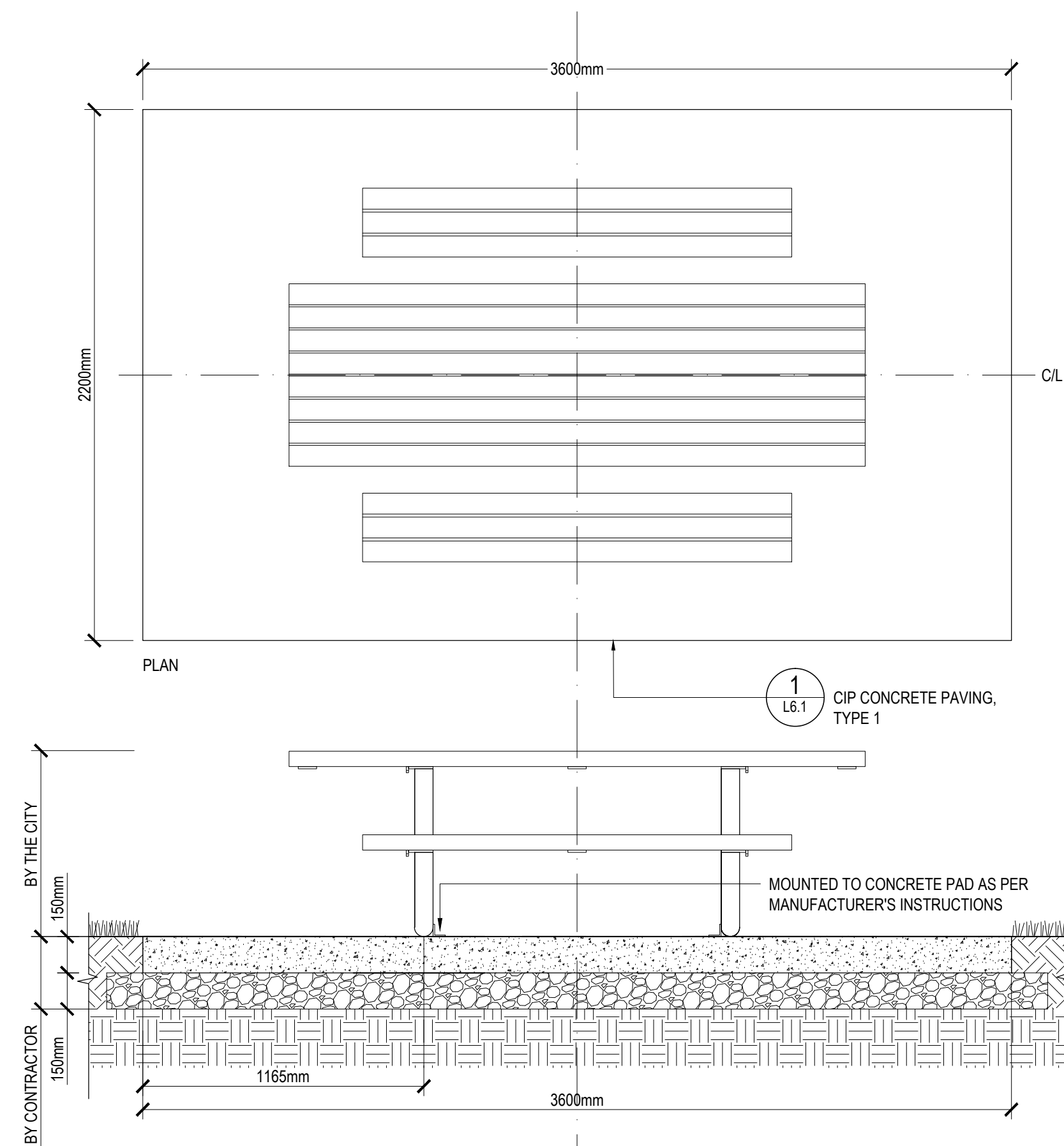
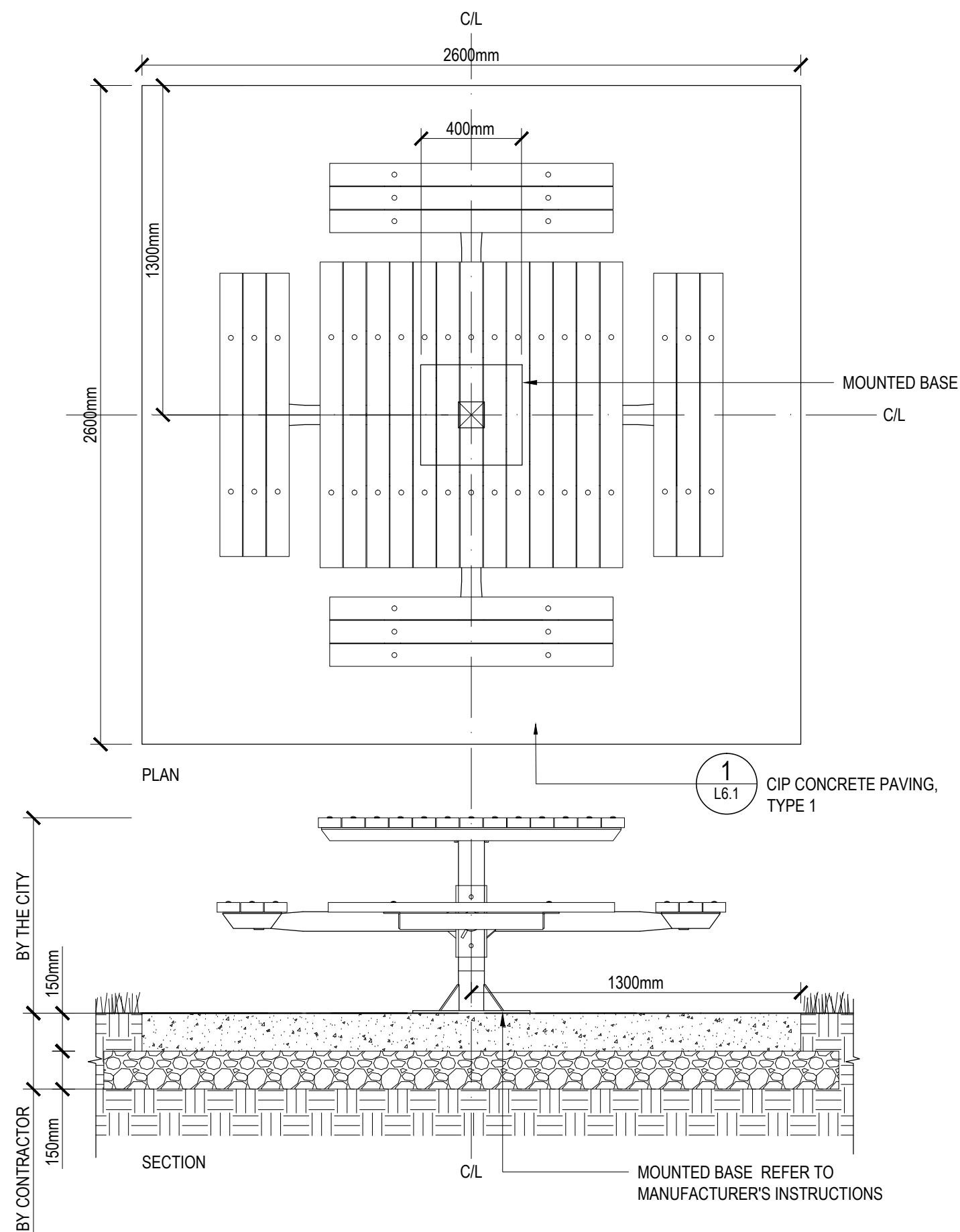
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BURNABY, B.C. V5G 6A8
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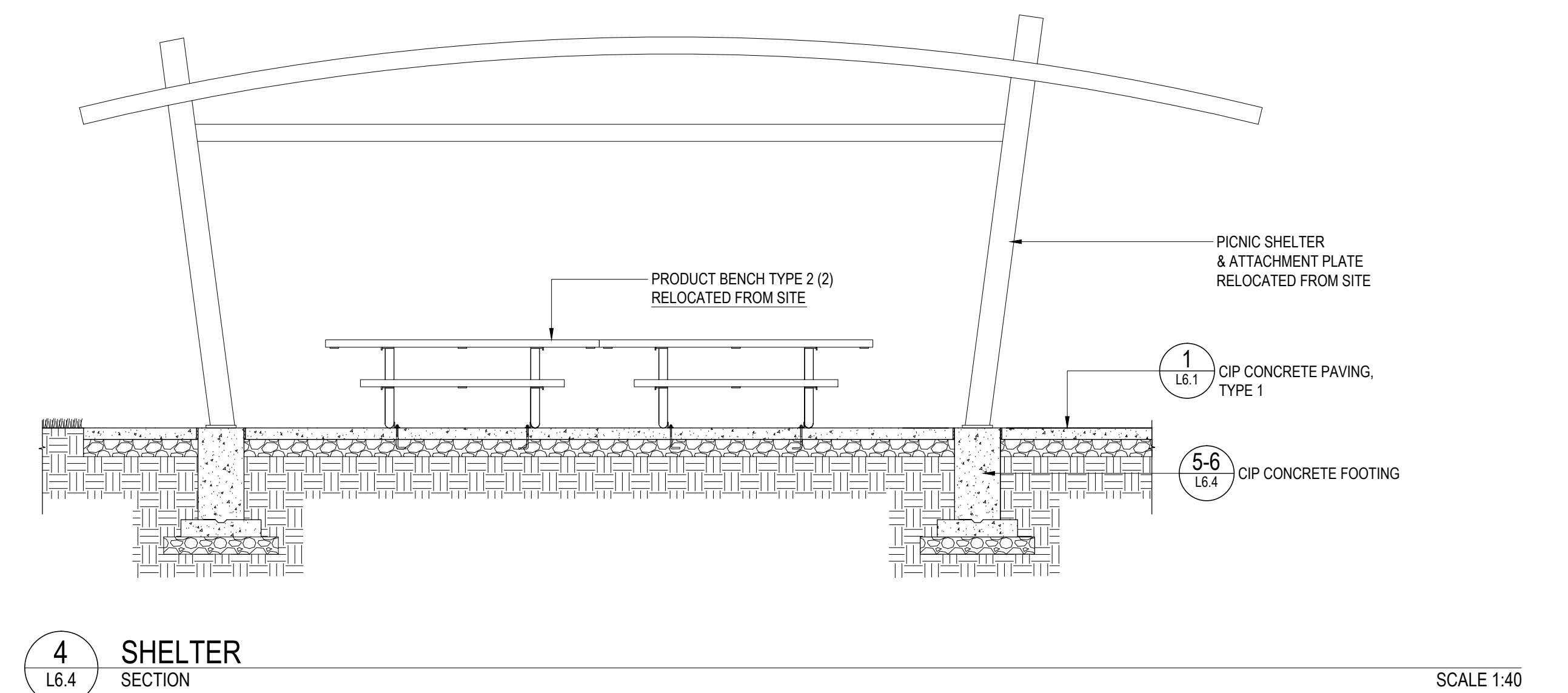
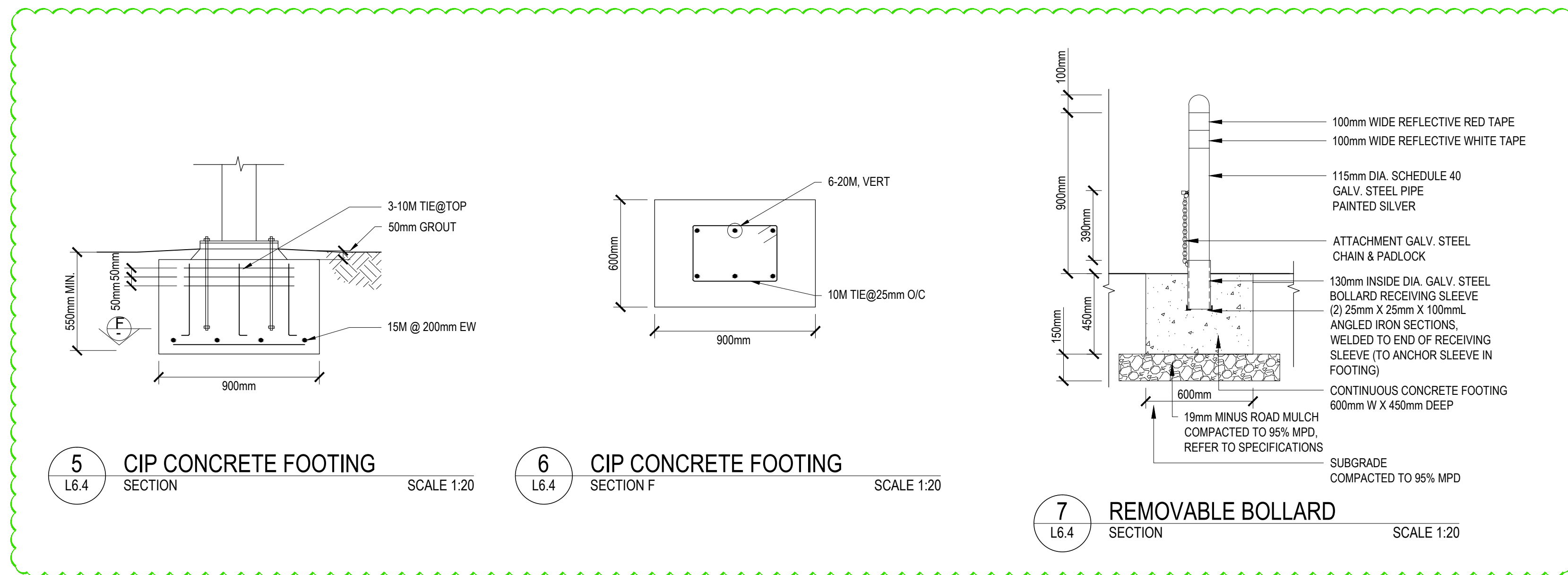
DETAILS 1 - SURFACING

SHEET No.		THE CITY OF SURREY	
L6.1		TITLE: South Surrey Athletic Park - IMPROVEMENTS 14601 - 20 AVE, SURREY BC	
OF	REV.	SCALE: HOR. VER.	SURREY PROJECT No. -
DESTROY PRINTS BEARING PREVIOUS NUMBER		CHECKED:	SURREY DRAWING No. -



1 L6.4 PRODUCT BENCH TYPE 1
VICTOR STANLEY HOMESTEAD SERIES CP-4 CENTER-POST TABLE
STANDARD 1.2M SQUARE TOP, STANDARD IN-GROUND MOUNT, STANDARD 38 x 89mm WOOD SLATS
SCALE 1:20

2 L6.4 PRODUCT BENCH TYPE 2
VICTOR STANLEY PARSONS SERIES PT-2 STANDARD MAHOGANY SLAT TABLE
STANDARD 1.8M TABLE
SCALE 1:20



5 L6.4 CIP CONCRETE FOOTING
SECTION
SCALE 1:20

6 L6.4 CIP CONCRETE FOOTING
SECTION F
SCALE 1:20

7 L6.4 REMOVABLE BOLLARD
SECTION
SCALE 1:20



SEAL

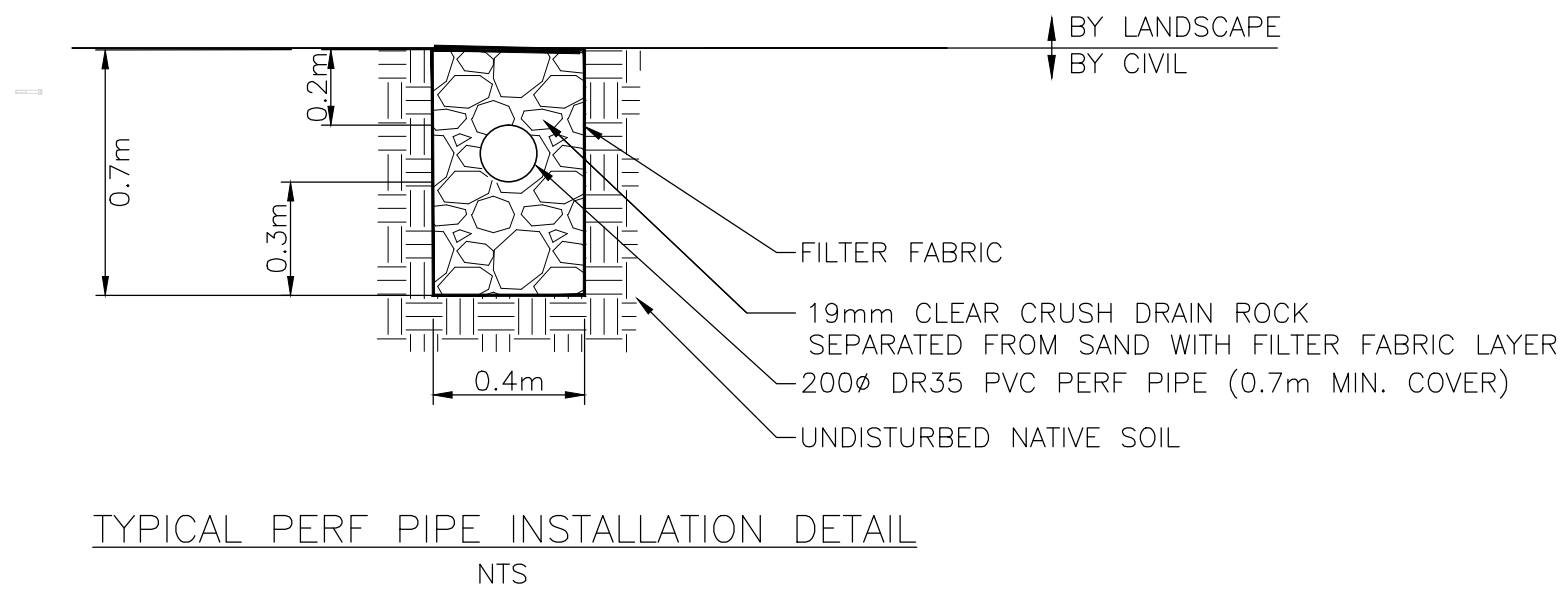
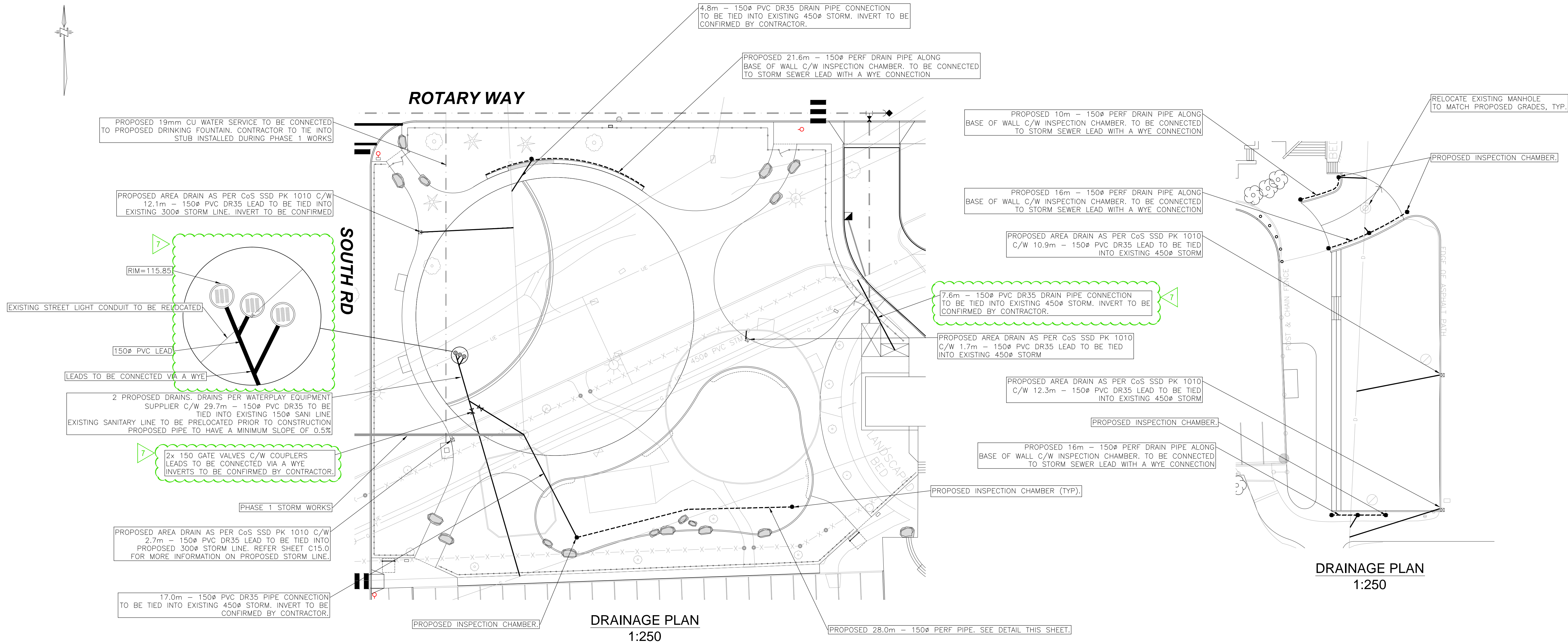
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DRAWN	-						
CHECK	-	7	ISSUED FOR ADDENDUM #2	JAN 16, 2017	JG	AR	
APPRD	-	6	RE-ISSUED FOR TENDER	AUG 5, 2016	JG	AR	
DATE	JAN-27-15	5	ISSUED FOR FRASER HEALTH PERMIT	JUL 21, 2016	JG	AR	
SCALE	1:500	4	ISSUED FOR BUILDING PERMIT	APR 5, 2016	JG	AR	
		3	ISSUED FOR TENDER	JUL 31, 2015	JG	AR	
		2	ISSUED FOR 95% DD	JUL 10, 2015	JG	AR	
DRAWING No.	31282-	1	ISSUED FOR 80% DD	May 25, 2015	HC	AR	
		No.	REVISION	DATE	BY	CHKD	



#503, LOUGHEED HWY.
BURNABY, B.C. V5C 6A8
PH : 604.629.2696 FAX : 604.629.2698

DETAILS 4 - FURNISHING

SHEET No.		THE CITY OF SURREY	
L6.4		TITLE: South Surrey Athletic Park - IMPROVEMENTS 14601 - 20 AVE, SURREY BC	
OF	REV.	SCALE: HOR. VER.	SURREY PROJECT No. -
DESTROY PRINTS BEARING PREVIOUS NUMBER		CHECKED:	SURREY DRAWING No. -



NOTES:
1. CONTRACTOR TO CONFIRM ALL EXISTING UTILITY LOCATIONS & INVERT LEVELS PRIOR TO CONSTRUCTION. IF SITE CONDITIONS VARY TO THOSE SHOWN ON THE DRAWINGS THE CONTRACTOR IS TO INFORM THE ENGINEER IMMEDIATELY
2. ALL CBs & STORM SEWER PIPE TO HAVE A MINIMUM GRADE OF 1%



SEAL

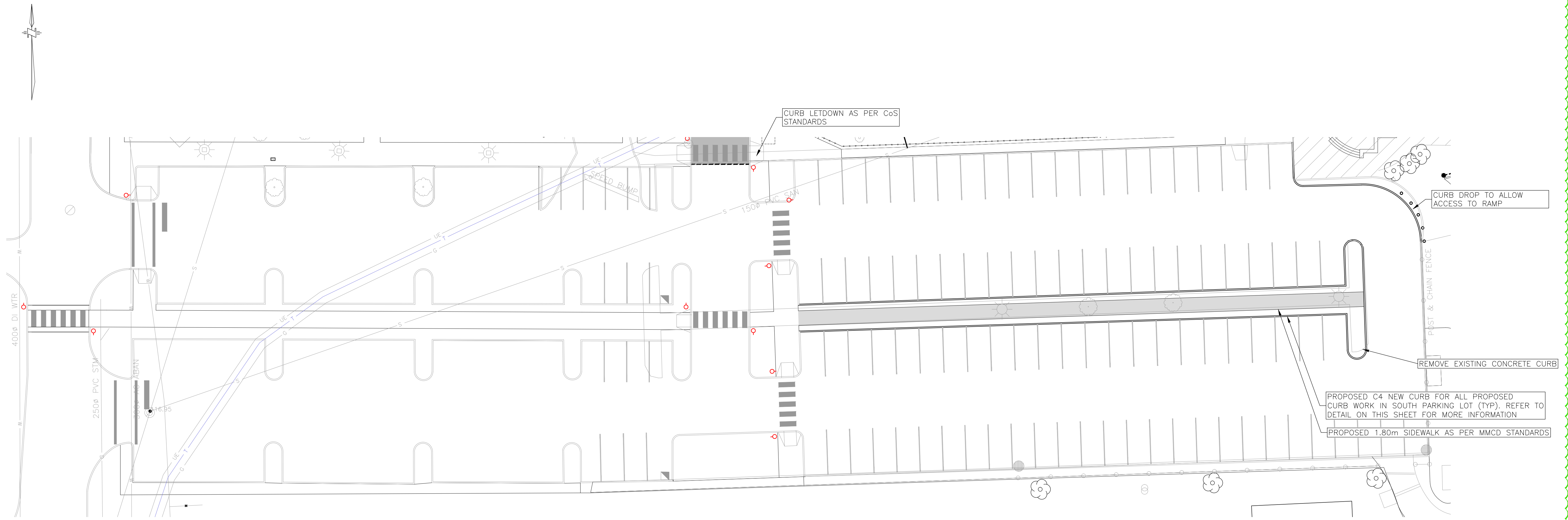
DESIGN	CB					
DRAWN	MG					
CHECK	CB	7	ISSUED FOR ADDENDUM #2	JAN 16, 2017	JG	AR
APPRD	KT	6	RE-ISSUED FOR TENDER	AUG 5, 2016	JG	CB
DATE	MAY-26-2015	5	ISSUED FOR FRASER HEALTH PERMIT	JUL 21, 2016	JG	CB
SCALE	1:250	4	ISSUED FOR BUILDING PERMIT	APR 5, 2016		CB
		3	ISSUED FOR TENDER	JULY 31, 2015	MG	CB
		2	ISSUED FOR 95% DD	JUL 10, 2015	MG	CB
DRAWING No.	31282-	1	ISSUED FOR 80% DD	May 26, 2015	MG	CB
		No.	REVISION	DATE	BY	CHKD



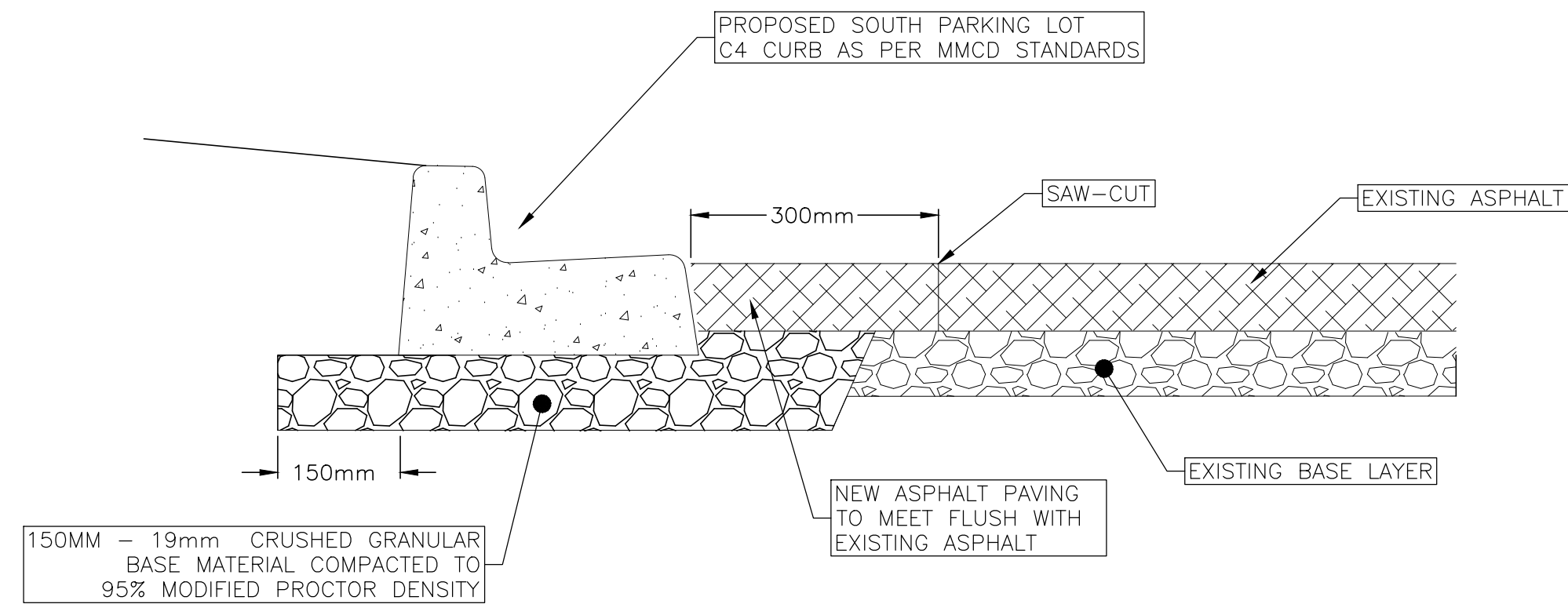
#503, LOUGHEED HWY.
BURNABY, B.C. V5C 6A8
PH : 604.629.2696 FAX : 604.629.2698

PHASE 2 UTILITIES

SHEET No.		THE CITY OF SURREY	
C2.0		TITLE: South Surrey Athletic Park - Improvements 14601-20 Ave, Surrey BC	
OF	REV.	SCALE:	SURREY PROJECT No.
C3.0	3	HOR. 1:250 VER. -	-
DESTROY PRINTS BEARING PREVIOUS NUMBER		CHECKED:	SURREY DRAWING No.
			-



SOUTH PARKING LOT PLAN
1:250



SOUTH PARKING LOT STRUCTUR DETAIL
NTS



SEAL

DESIGN	CB						
DRAWN	MG						
CHECK	CB	7	ISSUED FOR ADDENDUM #2	JAN 16, 2017	JG	AR	
APPRD	KT						
DATE	JAN-27-15						
SCALE	1:250	4	ISSUED FOR BUILDING PERMIT	APR 5, 2016	CB		
		3	ISSUED FOR TENDER	JULY 31, 2015	MG	CB	
		2	ISSUED FOR 95% DD	JUL 10, 2015	MG	CB	
DRAWING No.	31282-	1	ISSUED FOR 80% DD	May 26, 2015	MG	CB	
		No.	REVISION	DATE	BY	CHKD	



#503, LOUGHEED HWY.
BURNABY, B.C. V5C 6A8
PH : 604.629.2696 FAX : 604.629.2698

SOUTH PARKING LOT
CURBING AND BOULEVARD UPGRADE

SHEET No.

C3.0

OF
C14.0

REV.
3

DESTROY PRINTS BEARING
PREVIOUS NUMBER

THE CITY OF SURREY

TITLE:
South Surrey Athletic Park - Improvements
14601-20 Ave, Surrey BC

SCALE:
HOR. 1:250
VER. -

CHECKED:

SURREY PROJECT No.

-

SURREY DRAWING No.

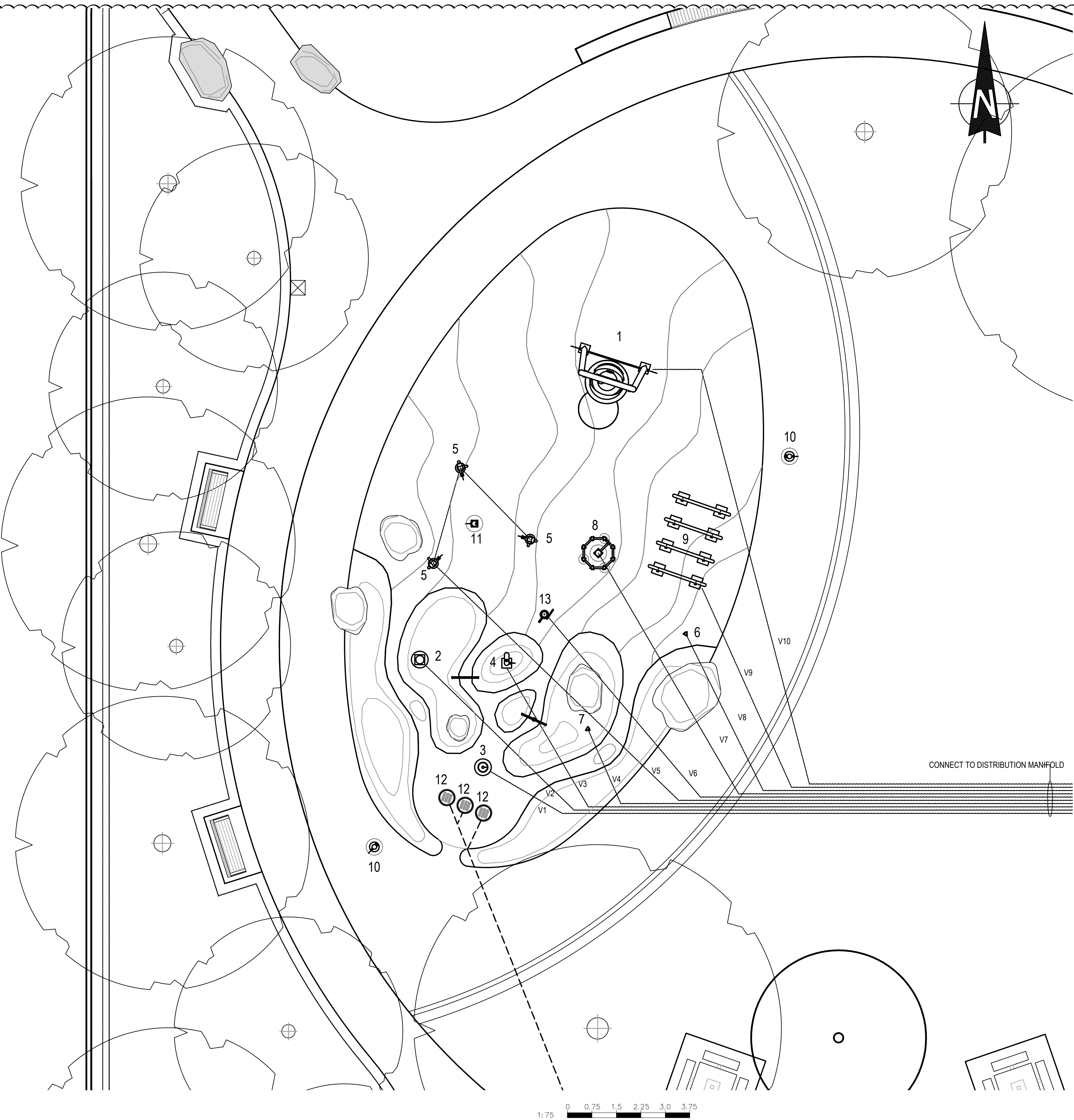
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LEG #	COMPONENT NAME	QTY/LEG
1	MEGA SOAKER - DEX/PlayPhase	1
2	FUN-BRELLA - DEX/PlayPhase	1
3	MISTY TWISTY - DEX/PlayPhase	1
4	WIGGLY - DEX/PlayPhase	1
5	CARRONADE 2.0 - DEX/PlayPhase	3
6	GS: THE WAVE	1
7	GS: TULIP	1
8	GS: GROUP VOLCANO	1
9	SPRAY LOOP TUNNEL - REFURBISHED	1
10	ACTIVATOR: POWER POST 2.0 - DEX/PlayPhase	2
11	ACTIVATOR: ACTION PLATE	1
12	DRAIN: OUTLET (BLACK)	3
13	K&K WATER PUMP	1

SPRAY PARK CONSTRUCTION NOTES:

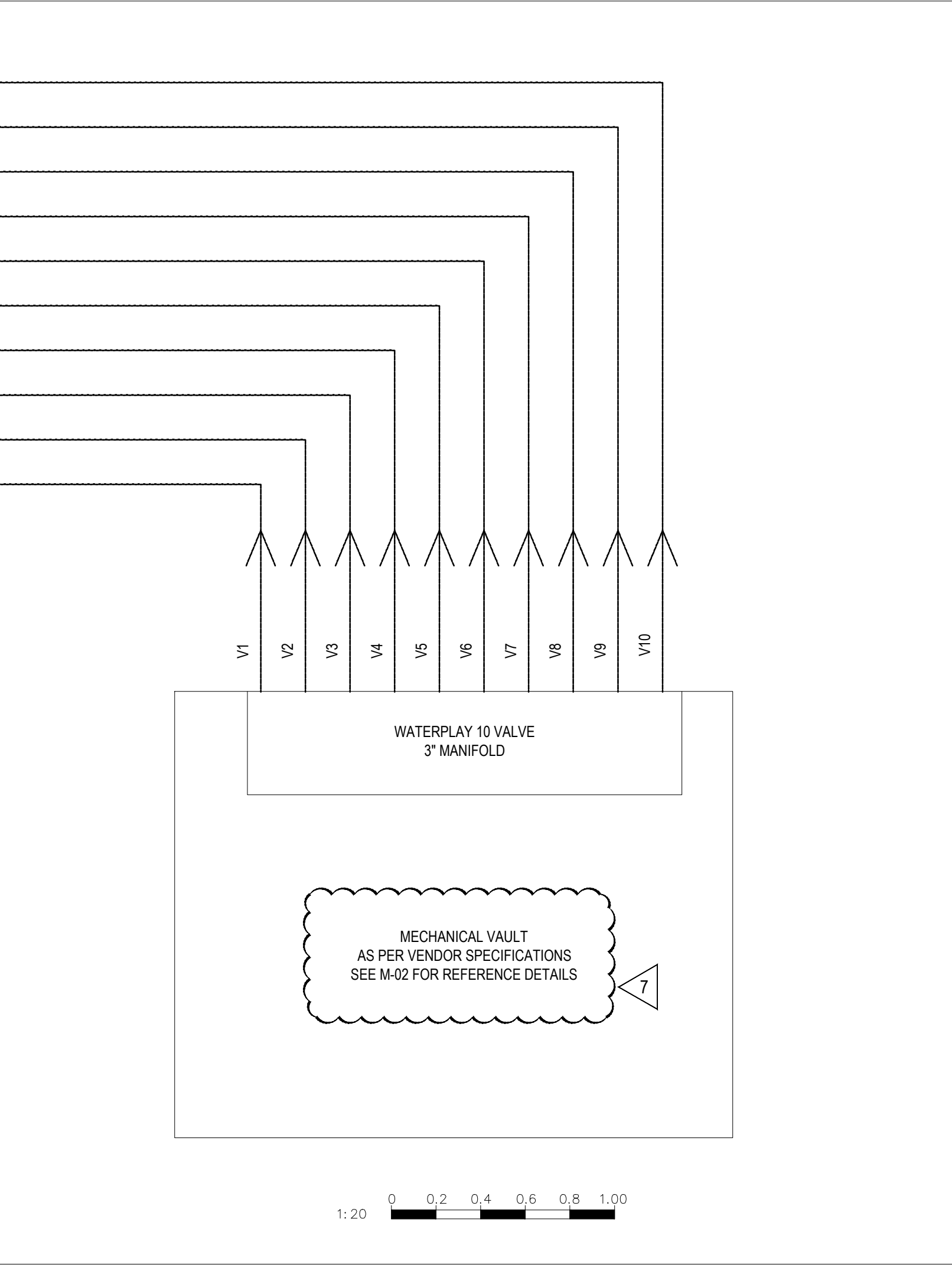
- CONNECT TO DRAIN LINE AS INDICATED. PROVIDE MINIMUM 2% SLOPE.
- AQUATIC PLAY PAD DRAINS TO BE PROVIDED BY SPRAY PARK FEATURE SUPPLIER. ALL SURFACES ARE TO BE SLOPED TOWARD THIS POINT. PROVIDE DRAIN LINE AS INDICATED.
- CONNECT TO WATER PARK WATER SUPPLY LINES AS INDICATED. THERE IS A CONNECTION FROM MECHANICAL ROOM TO MAKE THE REQUIRED CONNECTION. PROVIDE THRUST BLOCK AT EVERY CHANGE IN DIRECTION ON BURIED DOMESTIC WATER PIPING.
- ALL SPRAY PARK FEATURES ARE TO BE GROUNDED TO REBAR BURIED IN THE GRADE AS PER CEC 2012 SECTION 68-058. SEE ALSO MANUFACTURER'S REQUIREMENTS.

NOTE:
REFER TO ADDENDUM #2 FOR AN APPROVED LIST OF
ALTERNATE EQUIPMENT



NOTES:

- PROVIDE TEN VALVES MANIFOLD, (3") 75mm HEADER INSIDE MECHANICAL ROOM c/w ALL ELECTRICAL VALVES AND CONTROLLER AS PER WATERPLAY SOLUTION CORP. MODEL 0000-0925 OR APPROVED EQUAL.
- SUBMIT WORKSHOP DRAWINGS FOR THE SPLASH PAD EQUIPMENT PRIOR TO POURING THE CONCRETE.
- PROVIDE CONTROLLER (NEMA 4) WITH THE FOLLOWING FEATURES AS PER WATERPLAY SOLUTIONS CORP. MODEL 0002-1759 OR APPROVED EQUAL.
 - COMPONENT RUN TIMES
 - ACTIVATION SEQUENCE
 - PARK OPERATING DAYS
 - PARK HOURS OF OPERATION
 - DATE AND TIME OF DAY
 - TEST MODE
- PIPES SHALL BE PVC SCHEDULE 80.
- WATER LINES MUST HAVE POSITIVE DRAINAGE FROM AQUATIC PLAY FEATURES TO VAULT OR LOW POINT FOR WINTERIZING AND MAINTENANCE.
- WATER SUPPLY PRESSURE REQUIRED TO THE MANIFOLD IS 40-50 PSI FOR PROPER DISPLAY.
- LPM IN VALVE TABLE IS FOR LOW FLOW NOZZLES @ 15 PSI NOZZLE PRESSURE.
- PROVIDE ELECTRIC WIRE IN CONDUIT TO POWER POST ACTIVATOR FROM CONTROL PANEL IN MECHANICAL ROOM.



SEAL

DESIGN -						
DRAWN -						
CHECK -						
APPRD -	7	ISSUED FOR ADDENDUM #2	JAN 16, 2017	JG	AR	
DATE	AUG-05-2016	6	RE-ISSUED FOR TENDER	AUG-05-2016	CC	MB
SCALE	AS NOTED	5	ISSUED FOR FRASER HEALTH PERMIT	JUL 21, 2016		
		3	ISSUED FOR BUILDING PERMIT	APR 5, 2016	CC	BAT
		2	ISSUED FOR TENDER	JUL 31, 2015	CC	MB
		1	ISSUED FOR 95% DD	JUL 10, 2015	CC	MB
DRAWING No.	31282-	No.	REVISION	DATE	BY	CHKD



#503, LOUGHEED HWY,
BURNABY, B.C. V5C 6A8
PH - 604-629-2696 FAX - 604-629-2698

PAD LAYOUT CONNECTION PLAN

SHEET No.

ME-1

OF

REV.

REV. 6

DESTROY PRINTS BEARING
PREVIOUS NUMBER

THE CITY OF SURREY

TITLE: South Surrey Athletic Park Improvements
14601-20 Ave, Surrey BC

SCALE:

HOR. 1 : 75

VER. 1 : 75

CHECKED:

SURREY PROJECT No.

-

SURREY DRAWING No.

-

9/19/2016 11:13:02 AM © Waterplay Solutions Corp. SouthSurreyAthleticPark, Surrey, BC_Sep1916.dwg

ITEM	SKU	COMPONENT NAME	QTY
1	C02-070	MEGA SOAKER	1
2	C02-662	FUN-BRELLA - DEX	1
3	C02-658	MISTY TWISTY - DEX	1
4	C02-411	WIGGLY - DEX	1
5	C02-727	CARRONADE 2.0 - DEX	3
6	C02-341	GS: THE WAVE	1
7	C02-345	GS: TULIP	1
8	C02-182	GS: GROUP VOLCANO	1
9	C02-329	SPRAY LOOP TUNNEL - DEX	1
10	C02-611	ACTIVATOR: POWER POST 2.0 - DEX	2
11	EST-08455	ACTIVATOR: ACTION PLATE	1
12	DRA-00006	DRAIN: 6" OUTLET (BLACK)	3

LOCAL REGULATIONS MAY REQUIRE THE USE OF IMPACT ATTENUATING SURFACES FOR SOME INSTALLATIONS - CHECK LOCAL CODES PRIOR TO FINAL DESIGN AND INSTALLATION.

POTENTIAL SPRAY ZONE OF COMPONENT

FEATURE BY OTHERS

NOT FOR CONSTRUCTION PURPOSES

METRIC	11 x 17 plot		
FOR INFORMATION PURPOSES ONLY. LOCAL LANDSCAPE ARCHITECT, ENGINEER &/OR APPROPRIATE AUTHORITIES HAVING JURISDICTION MUST COMPLETE ALL PARK LAYOUT, MECHANICAL & ELECTRICAL DESIGN PRIOR TO CONSTRUCTION.			
DESIGNED BY:			
WATERPLAY SOLUTIONS CORP			
DWG NAME:			SHEET
WATERPLAY CONCEPTUAL LAYOUT			1/4
SCALE:	DRAWN BY:	DATE:	REV #:
1:100	KL	JUNE 15/15	4
PATH			
\\SALES\PROJECTS\2016\			
FOLDER:			
SOUTH SURREY ATHLETIC PARK, SURREY, B			

SOUTH SURREY ATHLETIC PARK
SURREY, BC

REV	DESCRIPTION	REV BY	REV DATE
4	REVISED FEATURE LAYOUT	KL	SEP 19/16
3	ADDED PAD AREA	KL	SEP 01/16
2	ADD CARRONADE AND ACTIVATOR	KL	JULY 31/15
1	COMPLETED FINAL LAYOUT	KL	JULY 22/16

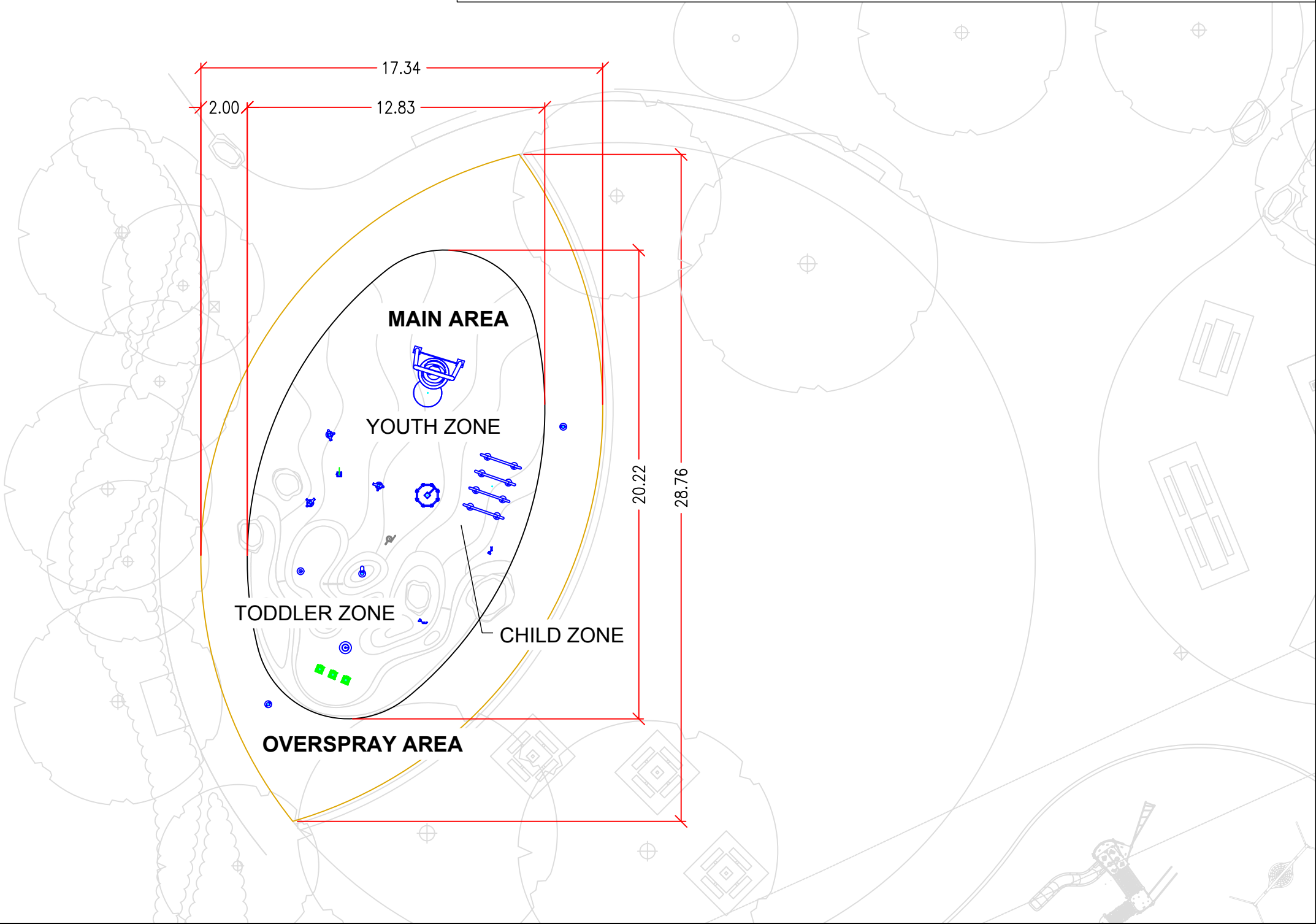


1451B ELLIS STREET, KELOWNA BC, CANADA V1Y 2A3
TEL. (250) 712-3393 FAX (250) 861-4814
EMAIL info@waterplay.com

NOT FOR CONSTRUCTION
PURPOSES

NOTES:

1. MAIN AQUATIC PLAY PAD AREA: 192 SQUARE METRES
TOTAL AREA, INCLUDING OVERSPRAY ZONE: 347 SQUARE METRES
2. TO AVOID POTENTIAL DAMAGE TO SURROUNDING SOFTSCAPE AND TO KEEP PEDESTRIAN TRAFFIC FROM GETTING WET, WATERPLAY RECOMMENDS A MINIMUM OVERSPRAY OF 2.44 METRES (8'). FOR AREAS WITH HIGH WINDS, A LARGER OVERSPRAY ZONE MAY BE REQUIRED.
3. GRADE SURROUNDING OUTSIDE PERIMETER LANDSCAPE TO PROVIDE ADDITIONAL DRAINAGE AWAY FROM OVERSPRAY PAD.
4. SLOPES (INCLUDING MAIN AND OVERSPRAY AREAS) TO PROVIDE POSITIVE DRAINAGE TO DRAINS. IF CODE REQUIRES THAT THERE BE A ZONE SLOPING AWAY FROM THE MAIN AREA, WATERPLAY RECOMMENDS AN ADDITIONAL DRY ZONE TO MEET THAT REQUIREMENT.
5. SLAB GRADES SUBJECT TO ENGINEER APPROVAL (NOTE ADA MAX CROSS SLOPE GRADE IS 2%).



METRIC

11 x 17 plot

FOR INFORMATION PURPOSES ONLY. LOCAL LANDSCAPE ARCHITECT, ENGINEER &/OR APPROPRIATE AUTHORITIES HAVING JURISDICTION MUST COMPLETE ALL PARK LAYOUT, MECHANICAL & ELECTRICAL DESIGN PRIOR TO CONSTRUCTION.

DESIGNED BY:

WATERPLAY SOLUTIONS CORP

DWG NAME:

WATERPLAY PAD CONCEPT LAYOUT

SHEET

2/4

SCALE:

1:200

DRAWN BY:

KL

DATE:

JUNE 15/15

REV #:

4

PATH

\\SALES\PROJECTS\2016\

FOLDER:

SOUTH SURREY ATHLETIC PARK, SURREY, B

SOUTH SURREY ATHLETIC PARK
SURREY, BC

REV	DESCRIPTION	REV BY	REV DATE
4	REVISED FEATURE LAYOUT	KL	SEP 19/16
3	ADDED PAD AREA	KL	SEP 01/16
2	ADD CARRONADE AND ACTIVATOR	KL	JULY 31/15
1	COMPLETED FINAL LAYOUT	KL	JULY 22/16



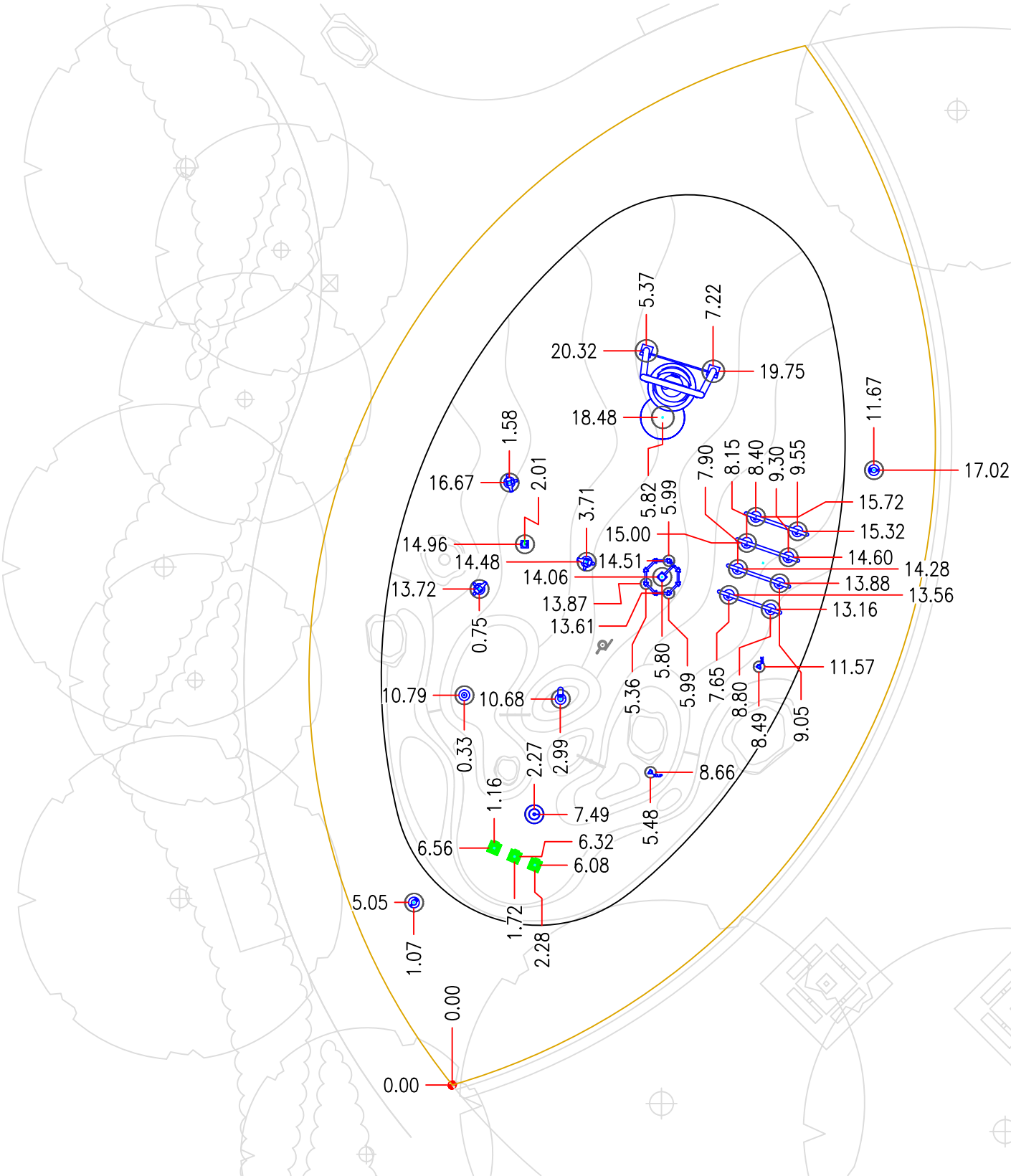
1451B ELLIS STREET, KELOWNA BC, CANADA V1Y 2A3

TEL. (250) 712-3393 FAX (250) 861-4814

EMAIL info@waterplay.com

NOT FOR CONSTRUCTION
PURPOSES

- NOTES:
1. ALL DIMENSIONS MEASURED FROM DIMENSION ORIGIN (0,0) TO CENTRE OF FOOTING.
 2. REFER TO FOOTING DETAILS FOR EACH WATER STRUCTURE.
 3. LOCATE, SIZE AND SPECIFY QUANTITY OF DRAINS TO PREVENT STANDING WATER.
 4. GROUND ALL COMPONENTS TOGETHER WITH GROUNDING WIRE AND BASE PLATE GROUNDING LUG.



METRIC		11 x 17 plot			
FOR INFORMATION PURPOSES ONLY. LOCAL LANDSCAPE ARCHITECT, ENGINEER &/OR APPROPRIATE AUTHORITIES HAVING JURISDICTION MUST COMPLETE ALL PARK LAYOUT, MECHANICAL & ELECTRICAL DESIGN PRIOR TO CONSTRUCTION.					
DESIGNED BY: WATERPLAY SOLUTIONS CORP					
DWG NAME: WATERPLAY COMPONENT PLACEMENT			SHEET 3/4		
SCALE: 1:150	DRAWN BY: KL	DATE: JUNE 22/15	REV #: 4		
PATH \\SALES\PROJECTS\2016\					
FOLDER: SOUTH SURREY ATHLETIC PARK, SURREY, B					
SOUTH SURREY ATHLETIC PARK SURREY, BC		REV		DESCRIPTION	
		4	REVISED FEATURE LAYOUT	KL	SEP 19/16
		3	ADDED PAD AREA	KL	SEP 01/16
		2	ADD CARRONADE AND ACTIVATOR	KL	JULY 31/15
		1	COMPLETED FINAL LAYOUT	KL	JULY 22/16

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VALVE TABLE			COUPLER TYPE: NPT	
LEG #	COMPONENT NAME	QTY/LEG	LPM	LINE SIZE FROM MANIFOLD
1	MISTY TWISTY - DEX	1	41	40 mm
2	FUN-BRELLA - DEX	1	57	40 mm
3	GS: TULIP	1	53	40 mm
4	WIGGLY - DEX	1	23	40 mm
5	FEATURE BY OTHERS	1	N/A	N/A
6	CARRONADE 2.0 - DEX	3	68	40 mm
7	GS: GROUP VOLCANO	1	56	40 mm
8	GS: THE WAVE	1	23	25 mm
9	SPRAY LOOP TUNNEL	1	82	40 mm
10	MEGA SOAKER	1	151	40 mm

- NOTES:
1. THIS IS A PRELIMINARY SCHEMATIC, SITE PIPING MUST BE DETERMINED AND MEASURED ON-SITE. APPROVED PIPING DETAILS TO BE DETERMINED BY LOCAL AUTHORITIES.
 2. WATER LINES MUST HAVE POSITIVE DRAINAGE FROM AQUATIC PLAY FEATURES TO VAULT OR LOW POINT FOR WINTERIZING AND MAINTENANCE.
 3. PRESSURE CONTROL AND BACKFLOW PREVENTER SHALL BE INSTALLED AT MAIN WATER SOURCE UPSTREAM FROM MANIFOLD VALVES, AS DETERMINED BY LOCAL AUTHORITIES.
 4. WATER SUPPLY PRESSURE REQUIRED TO THE MANIFOLD IS 138-207 KPA (20-30 PSI) DYNAMIC FOR PROPER DISPLAY.
 5. EQUIPMENT SHALL BE EASILY ACCESSIBLE BY STAFF AND SECURED FROM PUBLIC.
 6. LPM IN VALVE TABLE IS FOR LOW FLOW NOZZLES @ 103 KPA (15 PSI) NOZZLE PRESSURE.
 7. E-10 CONTROLLER CONFIGURED FOR A POTABLE WATER SUPPLY.

METRIC

11 x 17 plot

FOR INFORMATION PURPOSES ONLY. LOCAL LANDSCAPE ARCHITECT, ENGINEER &/OR APPROPRIATE AUTHORITIES HAVING JURISDICTION MUST COMPLETE ALL PARK LAYOUT, MECHANICAL & ELECTRICAL DESIGN PRIOR TO CONSTRUCTION.

DESIGNED BY:

WATERPLAY SOLUTIONS CORP

DWG NAME:

WATERPLAY PIPING SCHEMATIC

SHEET

4/4

SCALE:

1:100

DRAWN BY:

KL

DATE:

JUNE 22/15

REV #:

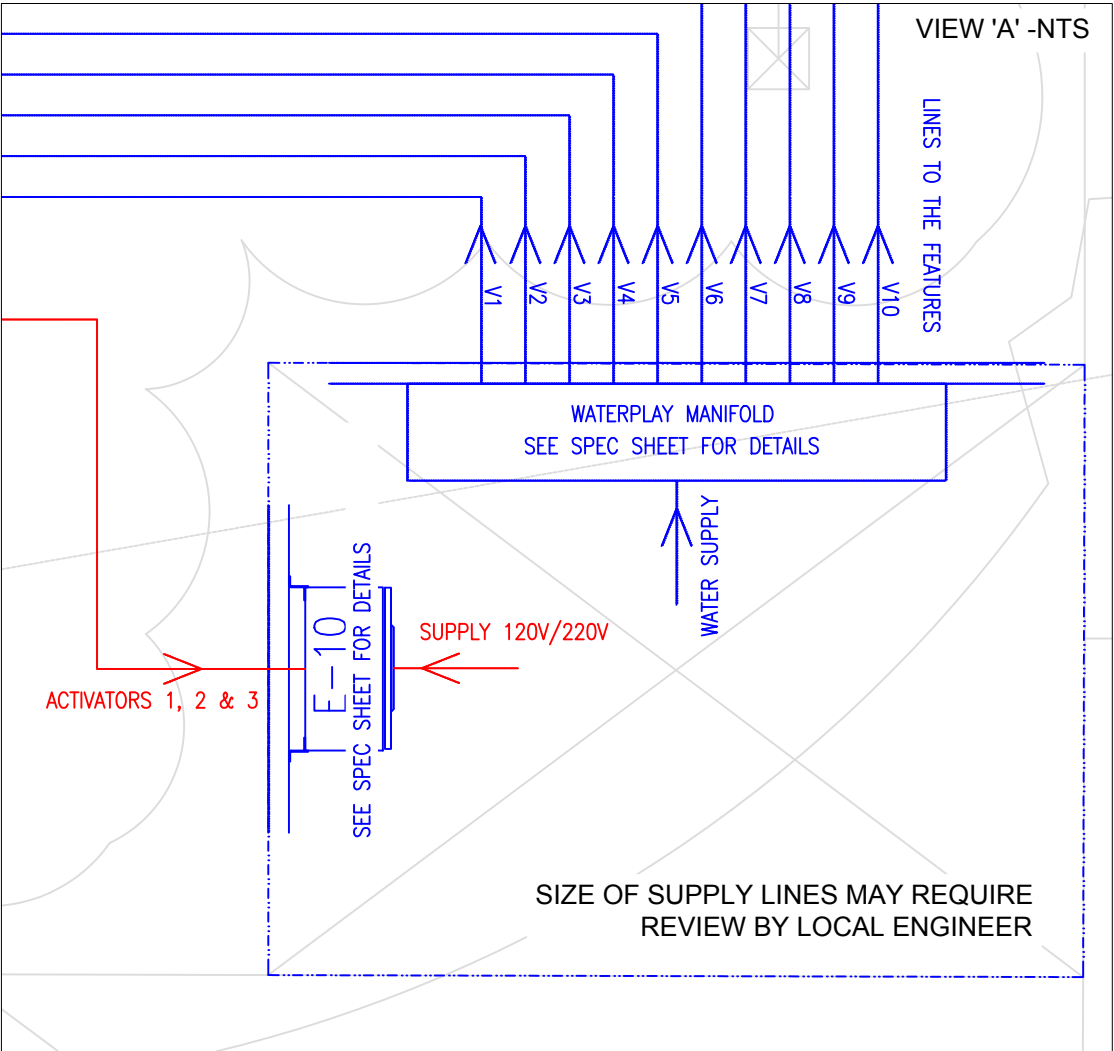
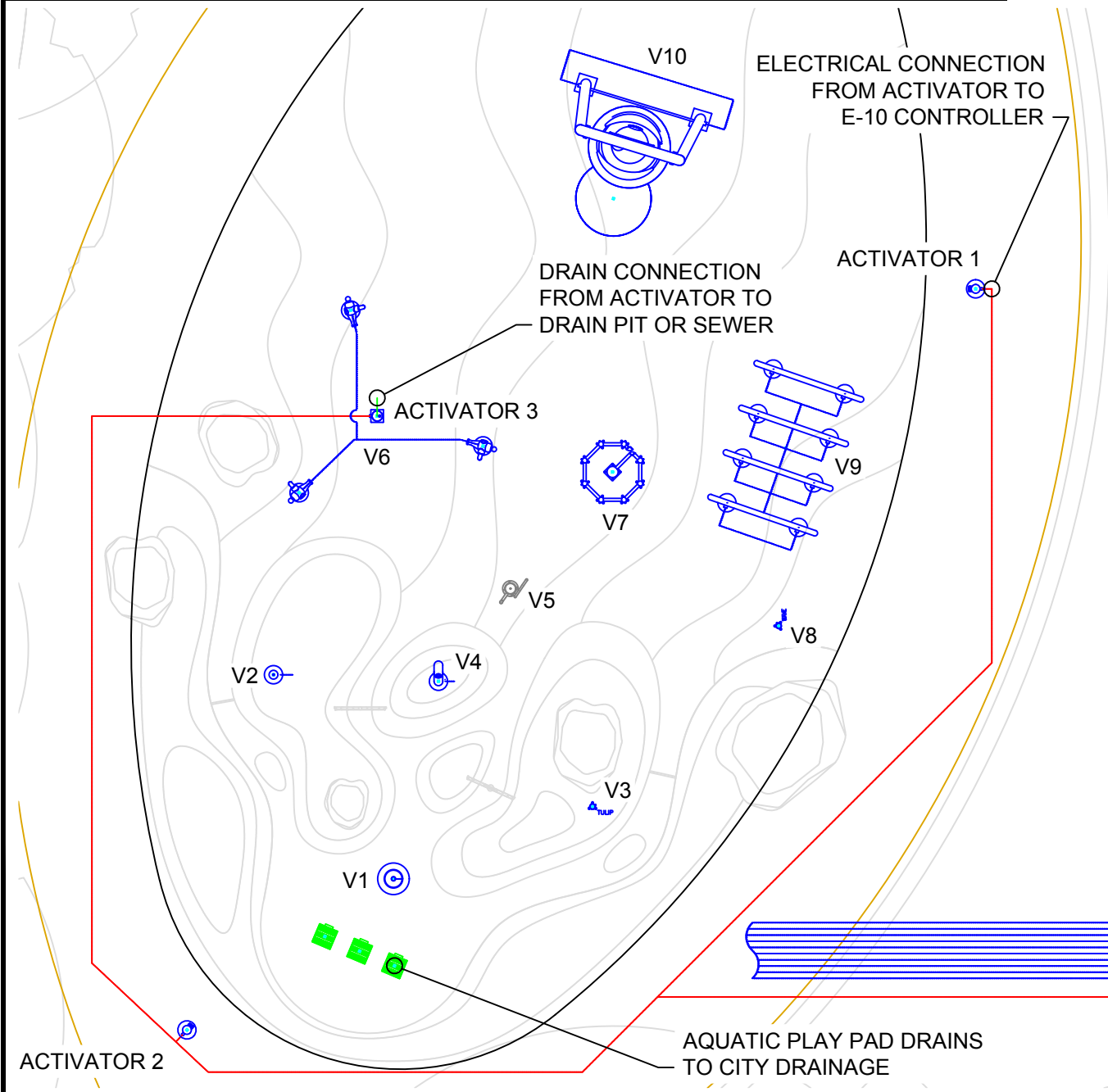
4

PATH

\\SALES\PROJECTS\2016\

FOLDER:

SOUTH SURREY ATHLETIC PARK, SURREY, B



NOT FOR CONSTRUCTION
PURPOSES

SOUTH SURREY ATHLETIC PARK SURREY, BC		SEP 19/16	KL	REV'D BY	REV DATE
		SEP 01/16	KL		
		JULY 31/15	KL		
		JULY 22/16	KL		
4	REVISED FEATURE LAYOUT				
3	ADDED PAD AREA				
2	ADD CARRONADE AND ACTIVATOR				
1	COMPLETED FINAL LAYOUT				
REV					

1451B ELLIS STREET, KELOWNA BC, CANADA V1Y 2A3

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EMAIL info@waterplay.com