

GENERAL NOTES

1. SUBCONTRACTOR TO VERIFY ALL SERVICES AND LOCATIONS PRIOR TO WORK. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
2. SUBCONTRACTOR SHALL PAY ALL FEES, PERMITS, LICENCES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK.
3. ALL GEOTHERMAL CONSTRUCTION IN ACCORDANCE WITH CAN/CSA-C448.1-13, AND IN COMPLIANCE WITH PROVINCIAL AND LOCAL CODES. THE SUBCONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER, AND COORDINATE WORK WITH THE OTHER TRADES.
4. SUBCONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
5. CONTRACTOR AND SUBCONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF TWO (2) YEARS FROM READY-FOR-TAKEOVER, OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
6. CONTRACTOR AND SUBCONTRACTOR ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER'S REPRESENTATIVE.
7. UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY THE SUBCONTRACTOR TO THE OWNER AND ENGINEER. ALL CHANGES IN PIPING ARRANGEMENTS SHALL BE NOTED ON THE RECORD DRAWINGS.
8. ALL BOREHOLE PIPES ARE 38mm (1.5") Ø HDPE PE 4710 SDR 11.
9. ALL HEADER CIRCUIT PIPING AND FITTINGS WITH 38mm (1.5") Ø PIPING TO BE HDPE PE 4710 SDR 11.
10. ALL 50mm (2") Ø PIPING AND FITTINGS TO BE HDPE PE 4710 SDR 13.5.
11. ALL GEOTHERMAL MANIFOLDS ARE 100mm (4") Ø HDPE PE 4710 SDR 11. ENSURE MINIMUM CLEARANCE OF 0.9m (3 ft) IN FRONT OF MANIFOLDS.
12. ALL PIPE AND FITTINGS TO HAVE SAME RESIN MIXTURE FOR HDPE. ANY ALTERATIONS TO THE PIPE TYPE, DIAMETER, OR THICKNESS MUST BE APPROVED BY ENGINEER IN WRITING.
13. ALL HDPE PIPING TO AVOID SHARP BENDS. MINIMUM BENDING RADIUS IS 25 TIMES THE OUTER DIAMETER FOR ANY PIPE CURVATURE.
14. THE ACCEPTABLE METHODS FOR JOINING HDPE PIPE ARE SOCKET FUSION, BUTT-FUSION, OR ELECTRO-FUSION, AS PER MANUFACTURER'S INSTRUCTIONS. BUTT-FUSION IS ONLY RECOMMENDED FOR PIPING 50mm (2") AND LARGER.
15. FUSIONS ARE TO BE PERFORMED BY ACCREDITED FUSION TECHNICIANS OR NATURAL GAS FITTERS.
16. ALL BURIED HDPE ELECTRO-FUSION WELDS MUST BE RECORDED BY A DIGITAL WELDING MACHINE. WELDS TO BE LABELED ON THE FITTING AND RECORDS OF EACH WELD MAINTAINED IN THE OPERATION & MAINTENANCE (O&M) MANUAL. COPIES OF WELD REPORTS TO BE SUBMITTED TO OWNER'S REPRESENTATIVE AND ENGINEER-OF-RECORD FOR REVIEW.
17. NO OPEN PIPE ENDS ARE TO BE LEFT UNATTENDED AT ANY TIME.
18. NO PETROLEUM BASED PRODUCTS ARE TO BE IN CONTACT WITH HDPE PIPE.
19. SAND MUST BE USED TO SURROUND THE PIPES WITHIN A 150mm (6") RADIUS.
20. TRENCHES TO BE BACKFILLED USING EXCAVATED MATERIALS APPROVED BY GEOTECHNICAL. ENSURE MATERIALS ARE FREE OF ANY ROCKS [DEFINED AS COBBLES AND LARGER; MAXIMUM 75mm (3")] AND ABRASIVE MATERIAL.
21. ALL BURIED HORIZONTAL PIPING TO HAVE TRACER WIRE FOR EASE OF LOCATION.
22. A WARNING STRIP 38mm (1.5") WIDE, INDICATING "CAUTION: GEOTHERMAL PIPING" TO BE BURIED ~ 600mm (24") BELOW GRADE OVER ALL FLUID PIPES.
23. MINIMUM DEPTH FOR GEOTHERMAL PIPING IS 1.8m (~6 FEET) TO TOP OF PIPE, EXCEPT WHERE NOTED.
24. REFER TO SPECIFICATIONS FOR MINIMUM INSULATION REQUIREMENTS, WHEN DISTRIBUTION PIPING IS 1.5m (~5 FEET) OR LESS (INCLUDING DEPTH) FROM SITE SERVICES AND STRUCTURAL COMPONENTS.
25. SUPPLY AND RETURN DISTRIBUTION PIPING TO BE SEPARATED BY 0.6m (~2 FEET) MINIMUM. RIGID INSULATION REQUIRED AS PER SPECIFICATIONS IF SEPARATION DISTANCE IS LESS THAN 0.6m (~2 FEET).
26. PIPE TEES ARE TO AVOID FLOW ARRANGEMENTS WHERE 2 FLOW PATHS FROM OPPOSITE DIRECTIONS BANG TOGETHER INTO THE MIDDLE BRANCH CONNECTION, OR THE FLOW THROUGH THE MIDDLE BRANCH CONNECTION HAS TO FLOW IN TWO OPPOSITE (180 DEGREE) DIRECTIONS INSIDE THE TEE.
27. NO FUSION JOINTS ARE TO OCCUR IN SLEEVES.
28. COORDINATE WITH STRUCTURAL ALL SLEEVING LOCATIONS REQUIRED TO PASS THROUGH FOUNDATION WALLS. (STRUCTURAL TO PROVIDE SLEEVES).
29. LINK-SEALS AT INLET AND OUTLET OF EACH SLEEVE PENETRATION AT FOUNDATION WALL PENETRATION INTO BUILDING.
30. GEOTHERMAL SYSTEM FILLED WITH 25% PROPYLENE GLYCOL BY VOLUME. COORDINATE WITH MECHANICAL AS PROPYLENE GLYCOL MUST BE FROM THE SAME MANUFACTURER.
31. BH-D2 IS THE TEST BOREHOLE LOCATION. THE DRILLING, U-LOOP PIPING, AND GROUT FOR THIS BOREHOLE IS NOT IN SCOPE. HOWEVER, CONNECTING BH-D2 AS PART OF THE GEOTHERMAL SYSTEM IS IN SCOPE.
32. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE PROJECT DRAWINGS, SPECIFICATIONS, AND ALL GOVERNMENT REGULATIONS PERTAINING TO WORK BEING DONE.

GEOTHERMAL BOREHOLE FIELD

BOREHOLE FIELD DESCRIPTION	
OVERALL BOREHOLE LENGTH	2,073 m (~6,800 ft)
BOREHOLE QUANTITY	8 total (with one for test hole)
NUMBER OF CIRCUITS	4
BOREHOLE DEPTH	259 m (~850 ft)
BOREHOLE DIAMETER	5"Ø
BOREHOLE SPACING	6.1 m (~20 ft) MINIMUM
FLUID DESCRIPTION	
TYPE	25% propylene glycol by volume
FLOW RATE	7.0 l/s (110 US GPM)
SOIL DESCRIPTION (BASED ON TEST BORE DATA NEAR SITE)	
THERMAL CONDUCTIVITY	2.42 W/(m-K) [1.40 BTU/(hr-ft-°F)]
THERMAL DIFFUSIVITY	0.09 m ² /day [0.97 ft ² /day]
GROUND TEMPERATURE	12.9°C (55.3°F)
PIPING DESCRIPTION	
PIPE TYPE - VERTICAL BOREHOLES	HDPE SDR 11 (4710 RESIN)
PIPE TYPE - HORIZONTAL CIRCUITS	HDPE SDR 13.5 (4710 RESIN)
BOREHOLE PIPE DIAMETER	38 mm (1-1/2")
PIPE RESISTANCE FOR HDPE SDR 11	0.066 (m-K)/W [0.115 (hr-ft-°F)/BTU]
GROUT THERMAL CONDUCTIVITY	2.08 W/(m-K) [1.20 BTU/(hr-ft-°F)]

GEOTHERMAL SHEET INDEX

G001	GEOTHERMAL NOTES, CRITERIA, AND INDEX
G100	GEOTHERMAL BOREHOLE LAYOUT PLAN
G101	GEOTHERMAL SECTIONS AND DETAILS
G102	GEOTHERMAL DETAILS - SLEEVING THROUGH BUILDING
G103	GEOTHERMAL MANIFOLD PLAN AND DETAILS

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DESIGN CRITERIA

1. SYSTEM DESIGN PARAMETERS (FROM MECHANICAL CONSULTANT):
 - 1.1. PEAK COOLING LOAD: 58 kW (196 kBtu/hr)
 - 1.2. ANNUAL COOLING: 39.1 MWh (133.4 MBTU)
 - 1.3. PEAK HEATING LOAD: 31 kW (104 kBtu/hr)
 - 1.4. ANNUAL HEATING: 47.7 MWh (162.9 MBTU)
2. SYSTEM DESIGN PARAMETERS WITH HYDRONIC EQUIPMENT CONSIDERED:
 - 2.1. PEAK COOLING LOAD WITH HYDRONIC (EMERGENCIES ONLY): 119.3 kW (407 kBtu/hr)
 - 2.2. NO FLUID COOLER REQUIRED WHEN EMERGENCY COOLING CONSIDERED.
 - 2.3. PEAK HEATING LOAD WITH HYDRONIC: 198.1 kW (676 kBtu/hr)
 - 2.4. DUE TO THE AMOUNT OF CONNECTED EQUIPMENT LOAD, A BOILER IS NECESSARY TO MEET THE HIGH HEATING DEMANDS.
3. GEOTHERMAL SYSTEM DESIGN CRITERIA INTO THE HEAT PUMPS BASED ON ENTERING WATER TEMPERATURE (EWT) OF 0°C (32°F) IN HEATING MODE AND ENTERING WATER TEMPERATURE (EWT) OF 29.4°C (85°F) IN COOLING MODE. THESE CONDITIONS ARE BASED ON WATER-TO-AIR HEAT PUMPS AND WATER-TO-WATER HEAT PUMPS OPERATING. GEOTHERMAL ENTERING WATER TEMPERATURES WILL FLUCTUATE WITHIN THESE VALUES THROUGHOUT THE YEAR. DUE TO THE AMOUNT OF CONNECTED EQUIPMENT LOAD, A BOILER IS NECESSARY TO MEET THE HIGH HEATING DEMANDS.



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ISSUED FOR BPA AND COSTING	08 NOV 2024
ISSUED FOR REVIEW	02 OCT 2024
ISSUED FOR COORDINATION	20 SEPT 2024
Revision	000

FIFA - EAST VSTS CENTENNIAL PARK

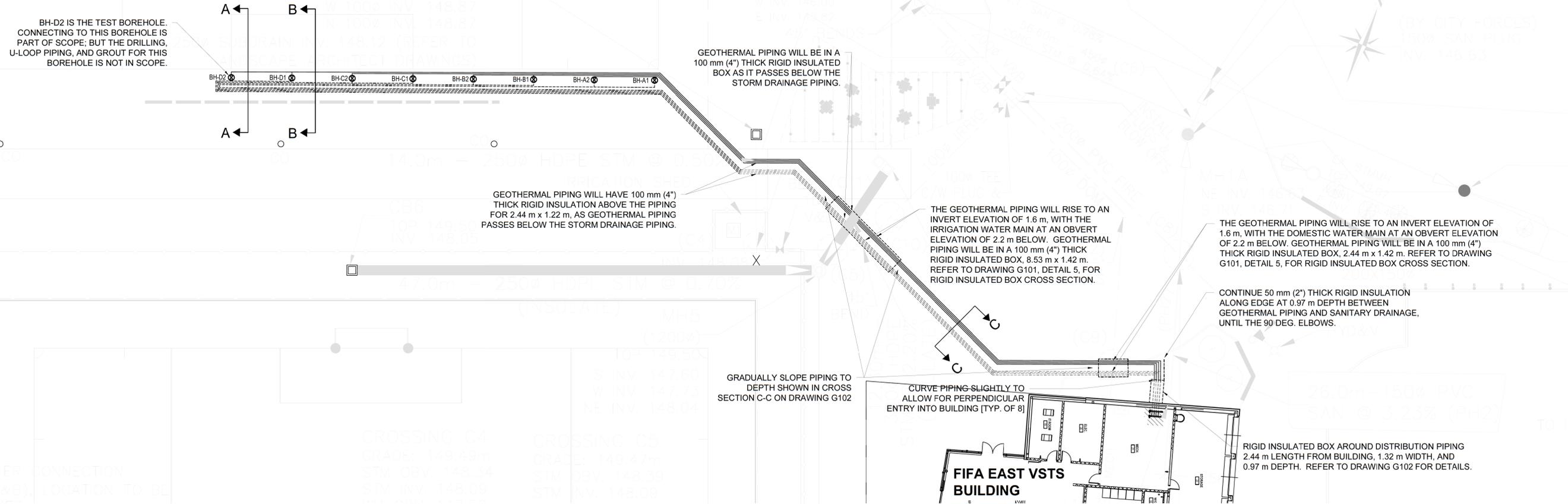
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**GEOTHERMAL NOTES,
CRITERIA, AND INDEX**

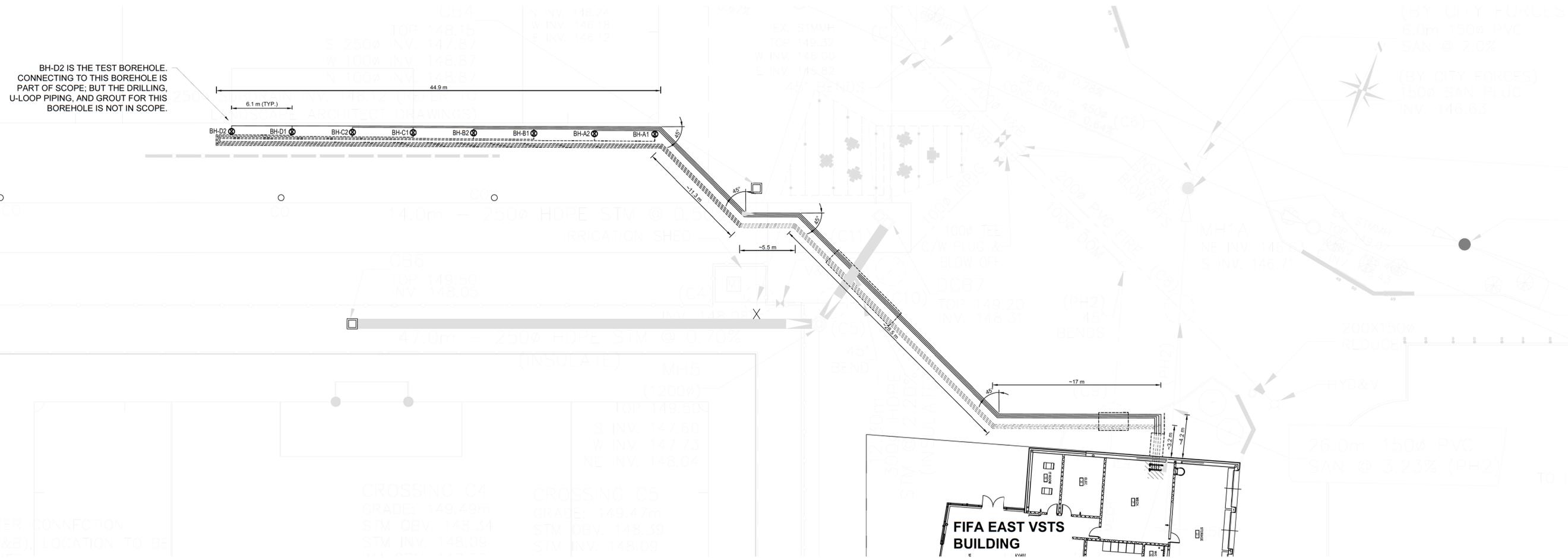
Project no. : 2461-66228-00
 scale : N/A
 date : NOVEMBER 12, 2024

drawing no. :

G001

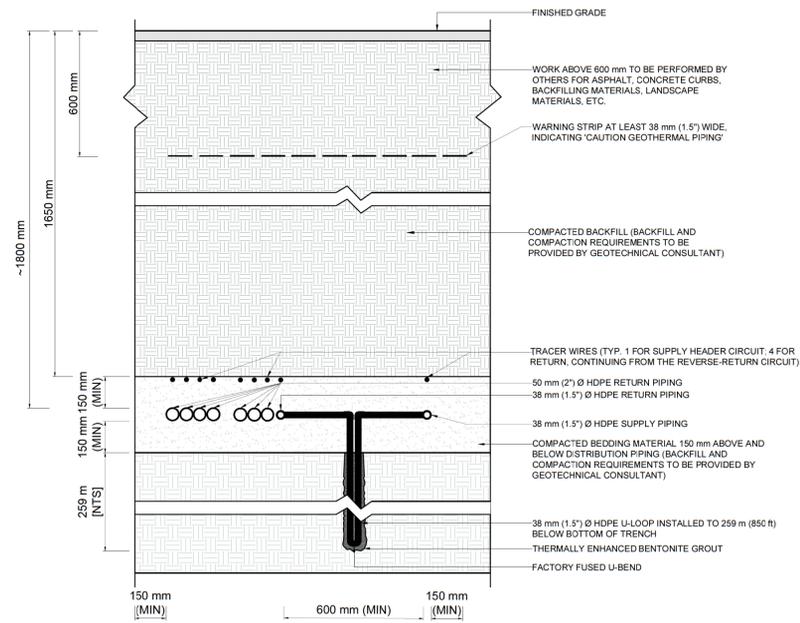


1. BOREHOLE LAYOUT AND CROSS SECTION LOCATIONS

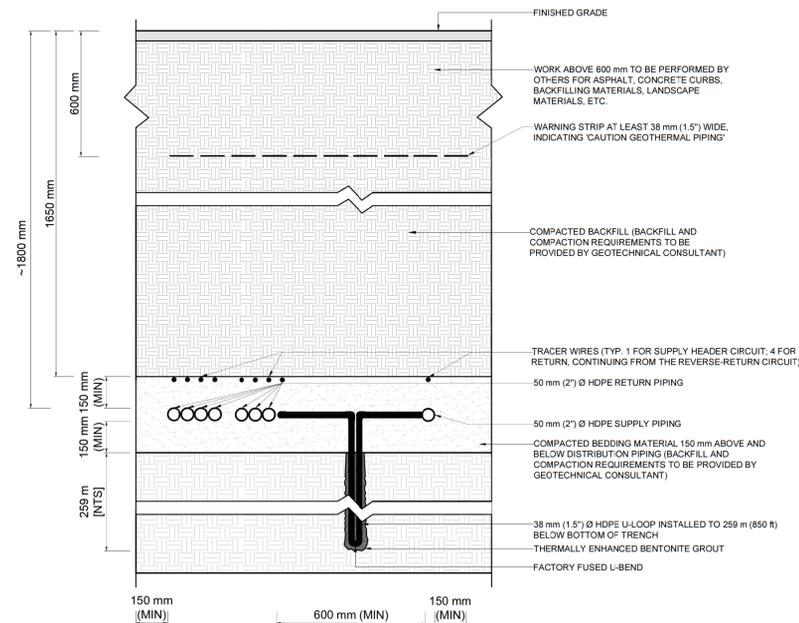


2. BOREHOLE LAYOUT WITH DIMENSIONS

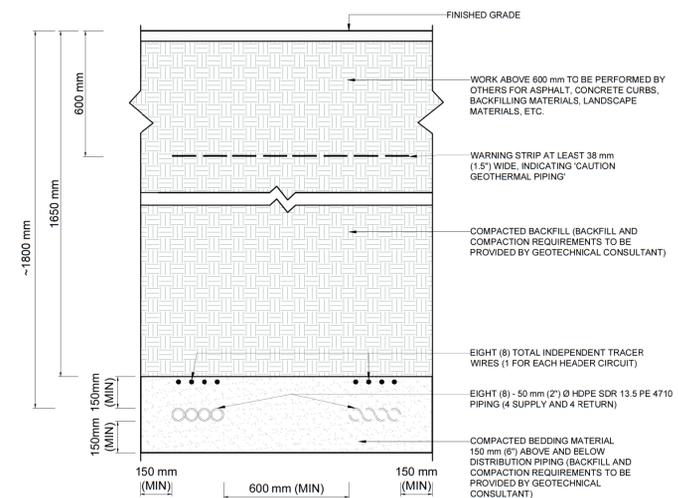




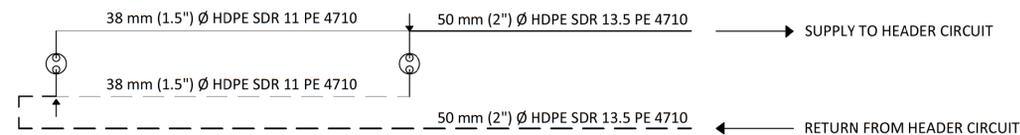
1. CONCEPTUAL TRENCH CROSS SECTION A-A DETAIL (TYPICAL) (NTS)
(Direction of view SOUTHWEST)



2. CONCEPTUAL TRENCH CROSS SECTION B-B DETAIL (TYPICAL) (NTS)
(Direction of view SOUTHWEST)

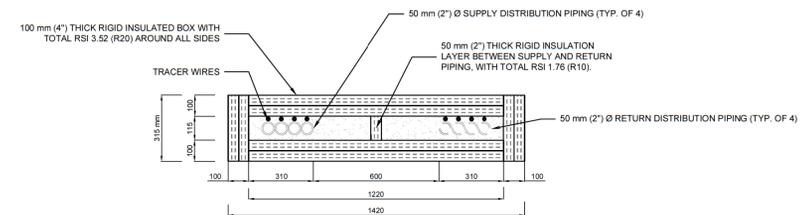


3. CONCEPTUAL TRENCH CROSS SECTION C-C DETAIL (TYPICAL) (NTS)
(Direction of view SOUTHEAST)



- NOTES:
- ↑ LOCATION OF REDUCING TEE OR BUSHING
 - REFER TO BOREFIELD LAYOUT DRAWING FOR LOCATION OF 90 DEGREE ELBOWS

4. HEADER CIRCUIT DETAIL (TYPICAL) (NTS)



5. TYPICAL RIGID INSULATED TRENCH CROSS SECTION (NTS)



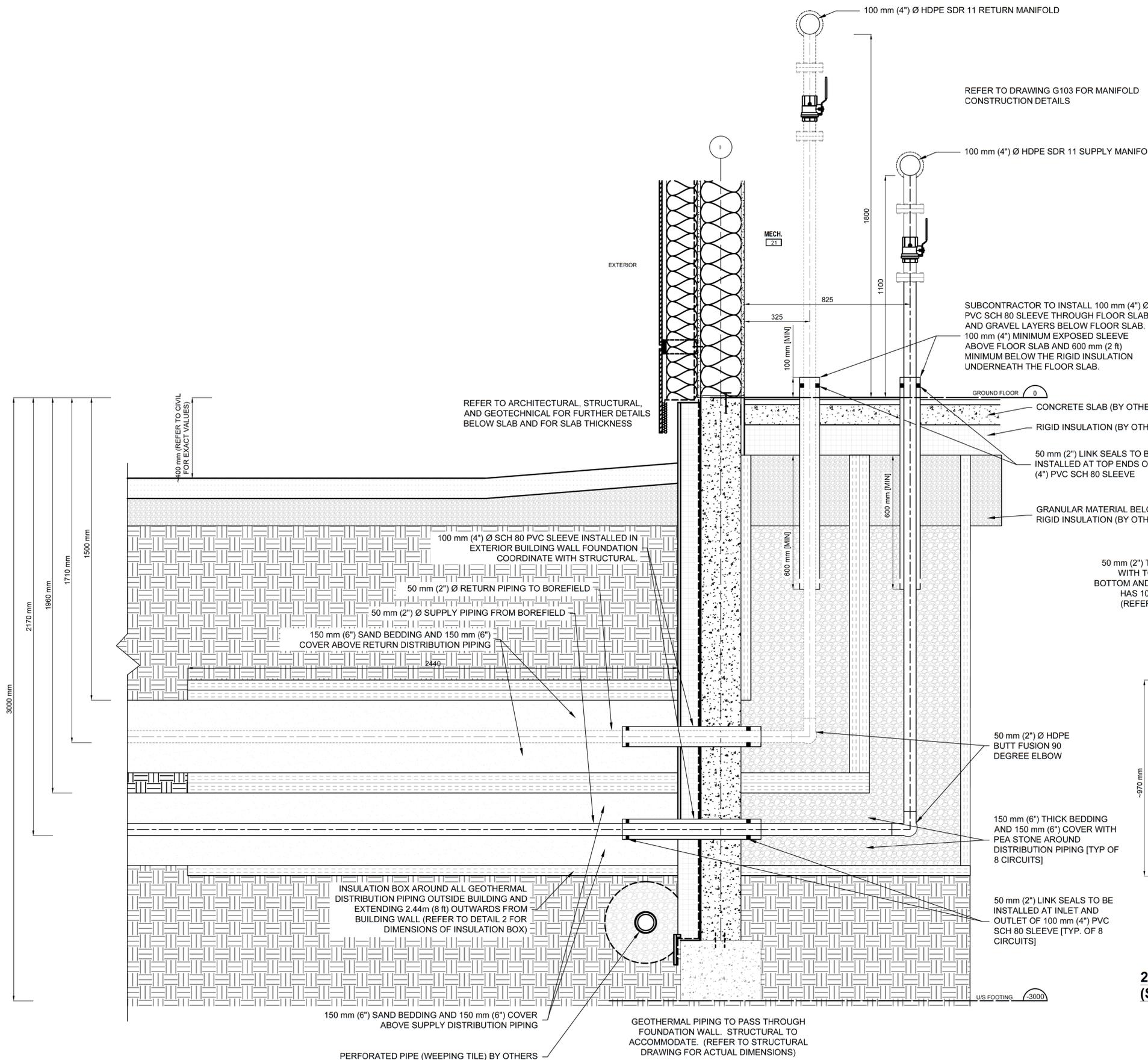
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revision	date

FIFA - EAST VSTS CENTENNIAL PARK
Address: 56 Centennial Park Rd, Toronto, ON
GEOTHERMAL SECTIONS & DETAILS

Project no.: 2461-66228-00
scale: NTS
date: NOVEMBER 12, 2024

drawing no.: **G101**



1. GEOTHERMAL DISTRIBUTION PIPING THROUGH FOUNDATION WALL WITH SLEEVING AND INSULATION DETAILS (SCALE 1:10)

REFER TO DRAWING G103 FOR MANIFOLD CONSTRUCTION DETAILS

SUBCONTRACTOR TO INSTALL 100 mm (4") Ø PVC SCH 80 SLEEVE THROUGH FLOOR SLAB AND GRAVEL LAYERS BELOW FLOOR SLAB. 100 mm (4") MINIMUM EXPOSED SLEEVE ABOVE FLOOR SLAB AND 600 mm (2 ft) MINIMUM BELOW THE RIGID INSULATION UNDERNEATH THE FLOOR SLAB.

REFER TO ARCHITECTURAL, STRUCTURAL AND GEOTECHNICAL FOR FURTHER DETAILS BELOW SLAB AND FOR SLAB THICKNESS

CONCRETE SLAB (BY OTHERS)
RIGID INSULATION (BY OTHERS)
50 mm (2") LINK SEALS TO BE INSTALLED AT TOP ENDS OF 100 mm (4") PVC SCH 80 SLEEVE
GRANULAR MATERIAL BELOW RIGID INSULATION (BY OTHERS)

50 mm (2") THICK RIGID INSULATED BOX WITH TOTAL RSI 1.76 (R10) AROUND BOTTOM AND SIDE EDGES; TOP PORTION HAS 100 mm (4") FOR RSI 3.52 (R20). (REFER TO DETAIL 1 FOR LENGTH.)

50 mm (2") Ø RETURN DISTRIBUTION PIPING (TYP. OF 4)
100 mm (4") THICK RIGID INSULATION LAYER BETWEEN SUPPLY AND RETURN PIPING, WITH TOTAL RSI 3.52 (R20). (REFER TO DETAIL 1 FOR LENGTH.)

50 mm (2") Ø HDPE BUTT FUSION 90 DEGREE ELBOW

150 mm (6") THICK BEDDING AND 150 mm (6") COVER WITH PEA STONE AROUND DISTRIBUTION PIPING [TYP OF 8 CIRCUITS]

50 mm (2") LINK SEALS TO BE INSTALLED AT INLET AND OUTLET OF 100 mm (4") PVC SCH 80 SLEEVE [TYP. OF 8 CIRCUITS]

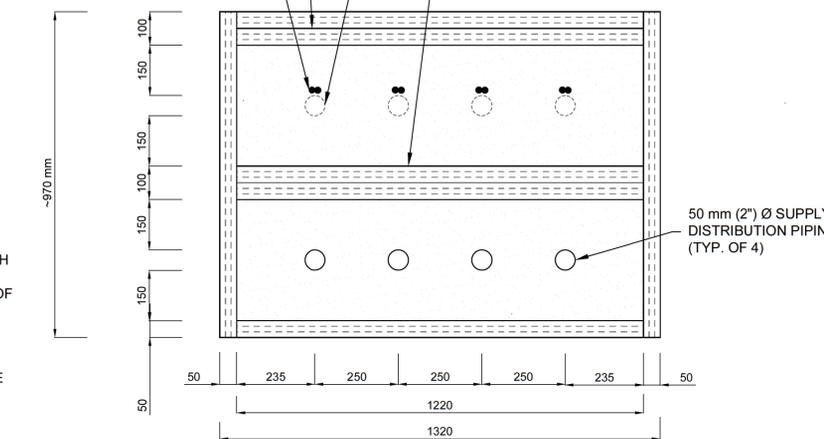
INSULATION BOX AROUND ALL GEOTHERMAL DISTRIBUTION PIPING OUTSIDE BUILDING AND EXTENDING 2.44m (8 ft) OUTWARDS FROM BUILDING WALL (REFER TO DETAIL 2 FOR DIMENSIONS OF INSULATION BOX)

150 mm (6") SAND BEDDING AND 150 mm (6") COVER ABOVE RETURN DISTRIBUTION PIPING

150 mm (6") SAND BEDDING AND 150 mm (6") COVER ABOVE SUPPLY DISTRIBUTION PIPING

GEOTHERMAL PIPING TO PASS THROUGH FOUNDATION WALL. STRUCTURAL TO ACCOMMODATE. (REFER TO STRUCTURAL DRAWING FOR ACTUAL DIMENSIONS)

PERFORATED PIPE (WEEPING TILE) BY OTHERS



2. GEOTHERMAL DISTRIBUTION PIPING INSULATION DETAILS (SCALE 1:10) (Direction of view northwest)



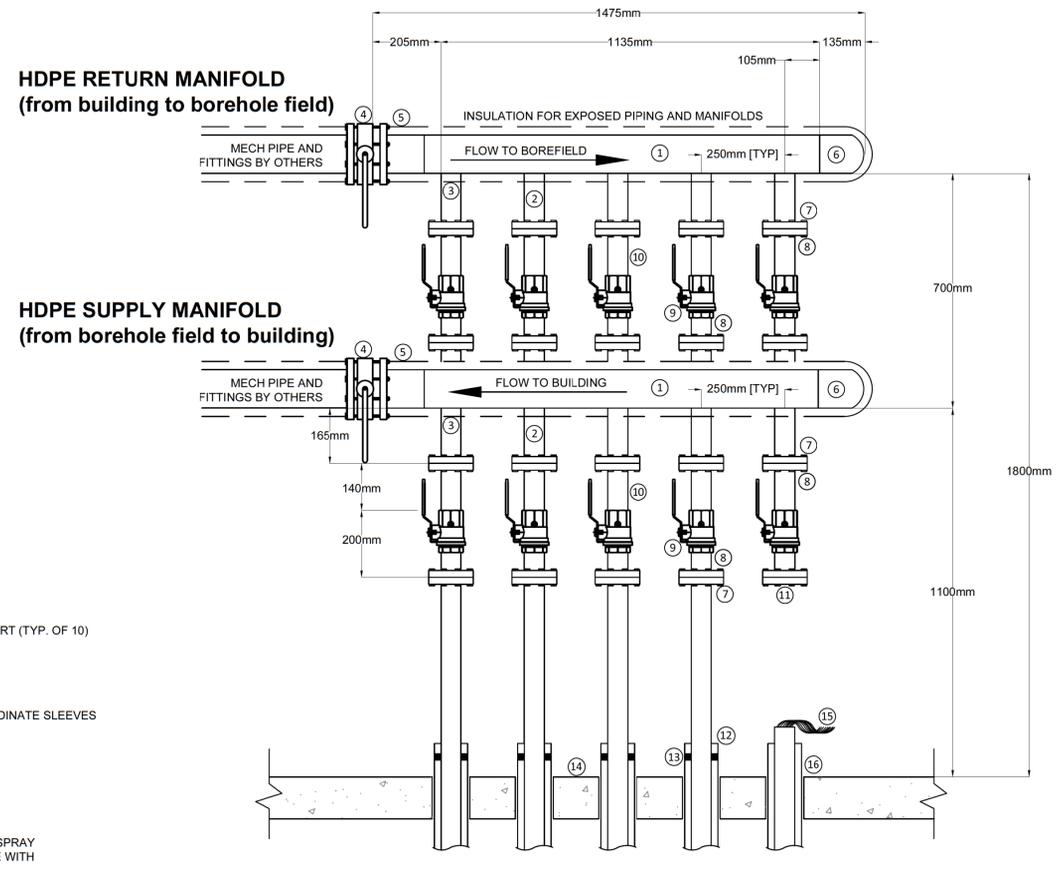
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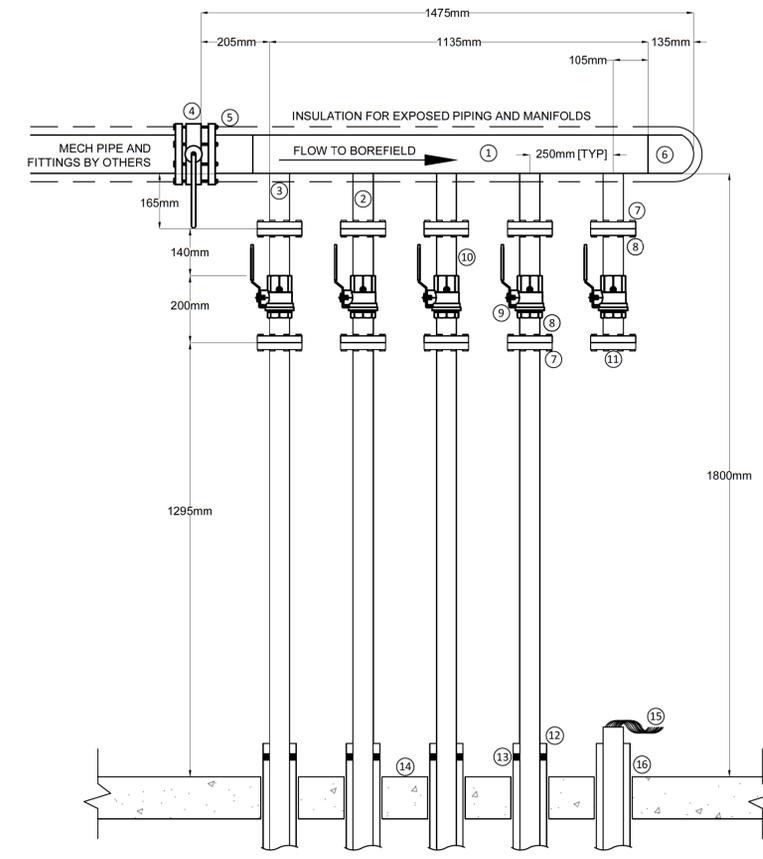
FIFA - EAST VSTS CENTENNIAL PARK
Address: 56 Centennial Park Rd, Toronto, ON
GEOTHERMAL DETAILS - SLEEVING THROUGH BUILDING

Project no.: 2461-68228-00
Scale: 1:10
Date: NOVEMBER 12, 2024

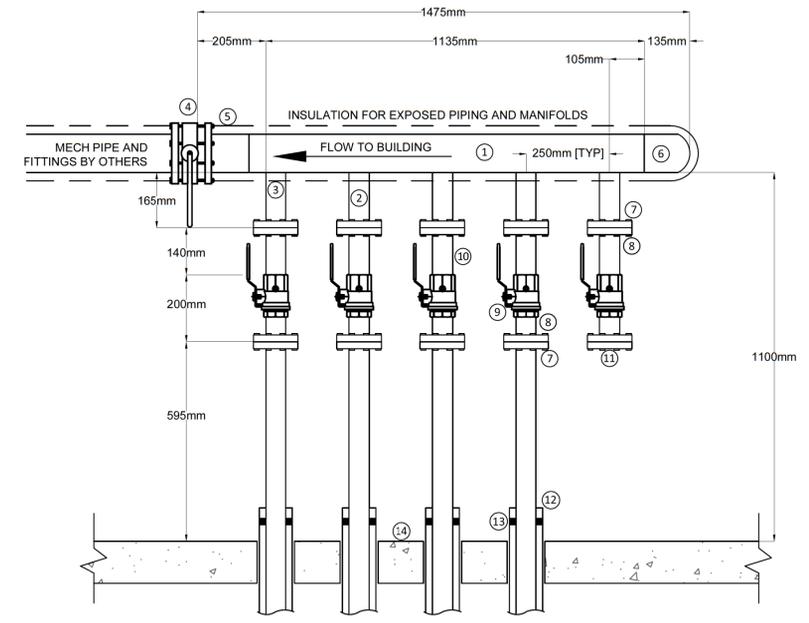
drawing no.: **G102**



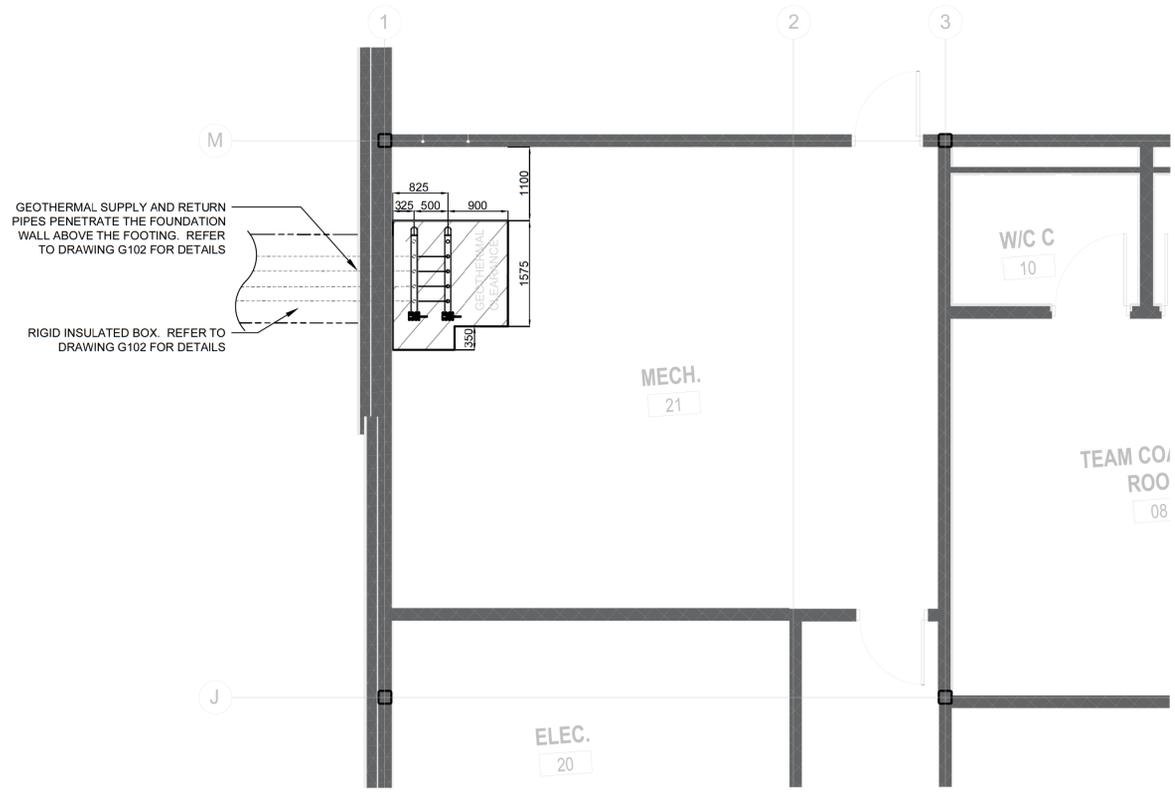
1. SUPPLY & RETURN HDPE MANIFOLD DETAILS (direction viewing northwest) [SCALE 1:10]



2. RETURN HDPE MANIFOLD DETAILS (direction viewing northwest) [SCALE 1:10]



3. SUPPLY HDPE MANIFOLD DETAILS (direction viewing northwest) [SCALE 1:10]



4. GEOTHERMAL MANIFOLD PLAN VIEW [SCALE 1:50]

- ① 100 mm HDPE PE 4710 DR 11 PIPE
- ② 50 mm HDPE PE 4710 DR 13.5 PIPE
- ③ 100 mm x 50 mm SADDLE FITTING BY MANUFACTURER (TYP. OF 10)
- ④ 100 mm BUTTERFLY VALVE (TYP. OF 2)
- ⑤ 100 mm HDPE FLANGE ADAPTOR WITH BACKUP RING (TYP. OF 2)
- ⑥ 100 mm HDPE PE 4710 DR 11 FUSED END CAP (TYP. OF 2)
- ⑦ 50 mm HDPE FLANGE ADAPTOR WITH BACKUP RING (TYP. OF 18)
- ⑧ 50 mm STEEL FLANGE FOR THREADED NIPPLES (TYP. OF 20)
- ⑨ 50 mm BRASS BODY THREADED FULL PORT BALL VALVE WITH 6.4 mm GAUGE PORT (TYP. OF 10)
- ⑩ 50 mm STEEL THREADED NIPPLES VARYING LENGTHS
- ⑪ 50 mm BLIND FLANGE (TYP. OF 2)
- ⑫ 100 mm PVC SCH. 80 SLEEVE PENETRATION THROUGH FLOOR (TYP. OF 8; COORDINATE SLEEVES WITH STRUCTURAL)
- ⑬ LINK SEALS (TYP. OF 8 AT SLEEVED PENETRATION, WITH LINKS SEALS AT INLET)
- ⑭ BASEMENT FLOOR SLAB (BY OTHERS)
- ⑮ TRACER WIRES (8 TOTAL - ONE FOR EACH SUPPLY AND RETURN CIRCUIT)
- ⑯ 50 mm PVC SCH. 80 SLEEVE PENETRATION THROUGH FLOOR SLAB, SEALED BY SPRAY POLYURETHANE FOAM AT INLET AND OUTLET OF SLEEVE; COORDINATE SLEEVE WITH STRUCTURAL



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revision	date

FIFA - EAST VSTS
CENTENNIAL PARK
 Address: 56 Centennial Park Rd, Toronto, ON
GEOTHERMAL MANIFOLD
PLAN & DETAILS

Project no.: 2461-86228-00
 scale: AS NOTED
 date: NOVEMBER 12, 2024

drawing no.: **G103**

CENTENNIAL PARK

FIFA - EAST VSTS Landscape Drawings

Toronto Parks, Forestry & Recreation

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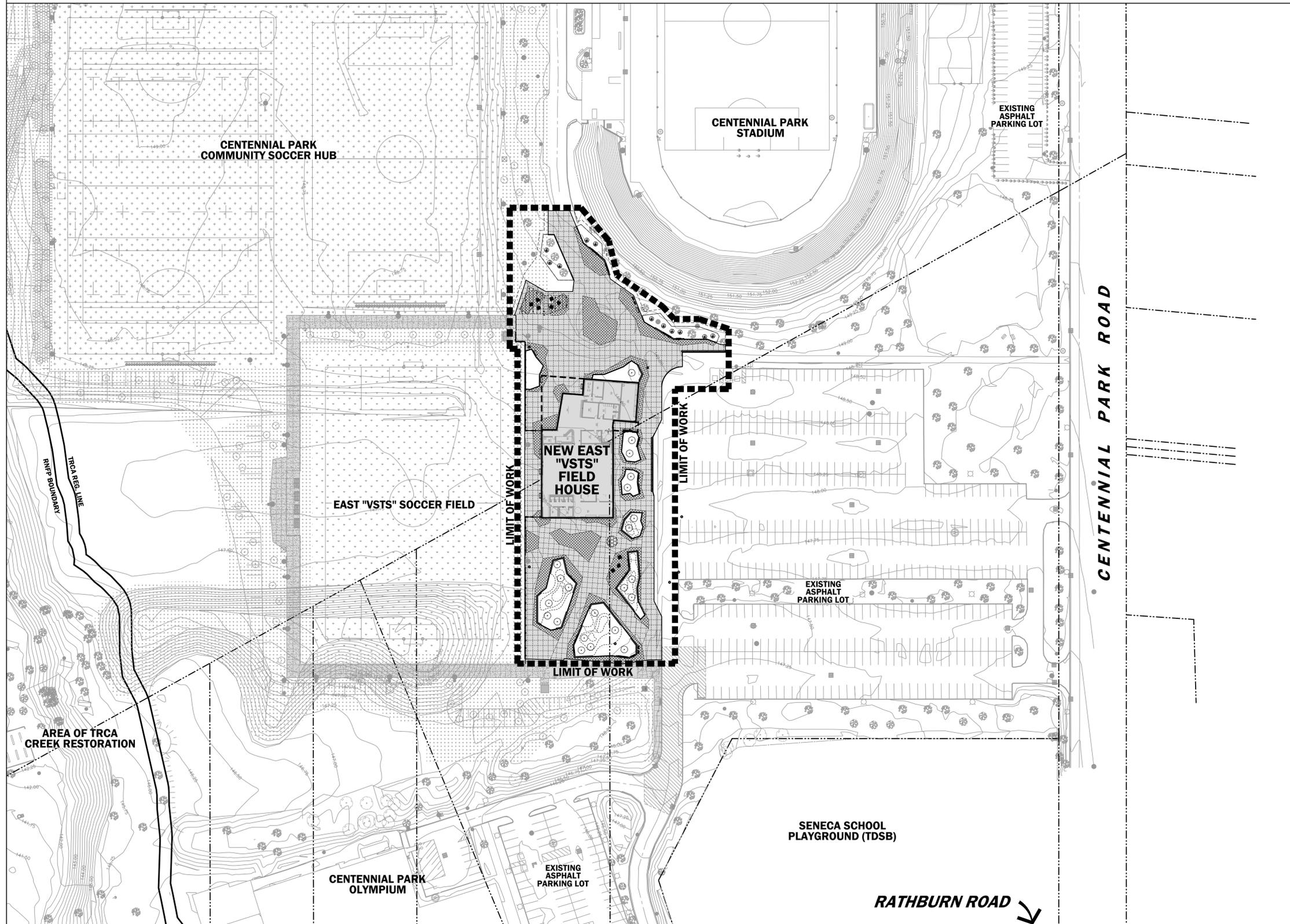
GENERAL NOTES

- ALL WORKS SHALL CONFORM TO THE REQUIREMENTS, STANDARDS AND DIRECTION OF THE CITY OF TORONTO.
- THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT TO OBTAIN THE CITY'S APPROVAL ON ANY PROPOSED SUBSTITUTIONS IN MATERIALS, OR DEVIATIONS FROM CONSTRUCTION METHODS, AS DESCRIBED ON THE DRAWINGS AND SPECIFICATIONS. THE CITY MAY NOT APPROVE SUBSTITUTIONS OR ALTERNATE METHODS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS WHICH MAY INCLUDE REMOVAL OF ANY WORK NOT APPROVED BY THE CITY.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CONDITIONS ENCOUNTERED ON-SITE.
- THE CONTRACTOR SHALL STAKE OR SPRAY PAINT ALIGNMENT OR LOCATION OF ALL NEW FACILITIES FOR VERIFICATION BY THE CITY AND THE LANDSCAPE ARCHITECT PRIOR TO CARRYING OUT ANY EXCAVATIONS OR INSTALLATIONS.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL TREES OR FACILITIES WITHIN THE PARK OR ON ADJACENT PROPERTIES, NOT INDICATED TO BE REMOVED. ANY DAMAGE SHALL BE IMMEDIATELY REPAIRED TO THE CITY'S SATISFACTION.
- THE CONTRACTOR SHALL KEEP ALL CONSTRUCTION RELATED ACCESS AND ACTIVITIES WITHIN THE DESIGNATED LIMIT OF WORK AREA.
- ALL PORTIONS OF THE WORK MUST BE AVAILABLE AT ALL TIMES WHILE WORK IS BEING PERFORMED. FOR INSPECTION BY DESIGNATED REPRESENTATIVES OF THE CITY OR THE LANDSCAPE ARCHITECT.
- ALL QUESTIONS, ALTERNATE PROPOSALS, REQUESTS FOR INFORMATION OR INSPECTION, ETC. SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT.

DRAWING INDEX

DWG: SHEET TITLE:

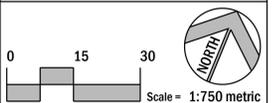
L1	Landscape Drawings Cover Sheet
L2	Tree Protection Plan
L3	Demolition Plan
L4	Landscape Plan
L5	Layout + Grading Plan
L6	Soil Provision Plan
L7	Planting Plan
L7A	Planting Plan-Enlargement Plan
L7B	Planting Legend
L8	Landscape Details 1
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L13	Landscape Details 6
L14	Landscape Details 7



03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA JC
02	2024-11-13	PRELIMINARY	EKA JC
01	2024-11-08	PRELIMINARY	JC --
NO	YYYY-MM-DD	REVISION	DNJ --



**CENTENNIAL PARK
FIFA - EAST VSTS**
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3

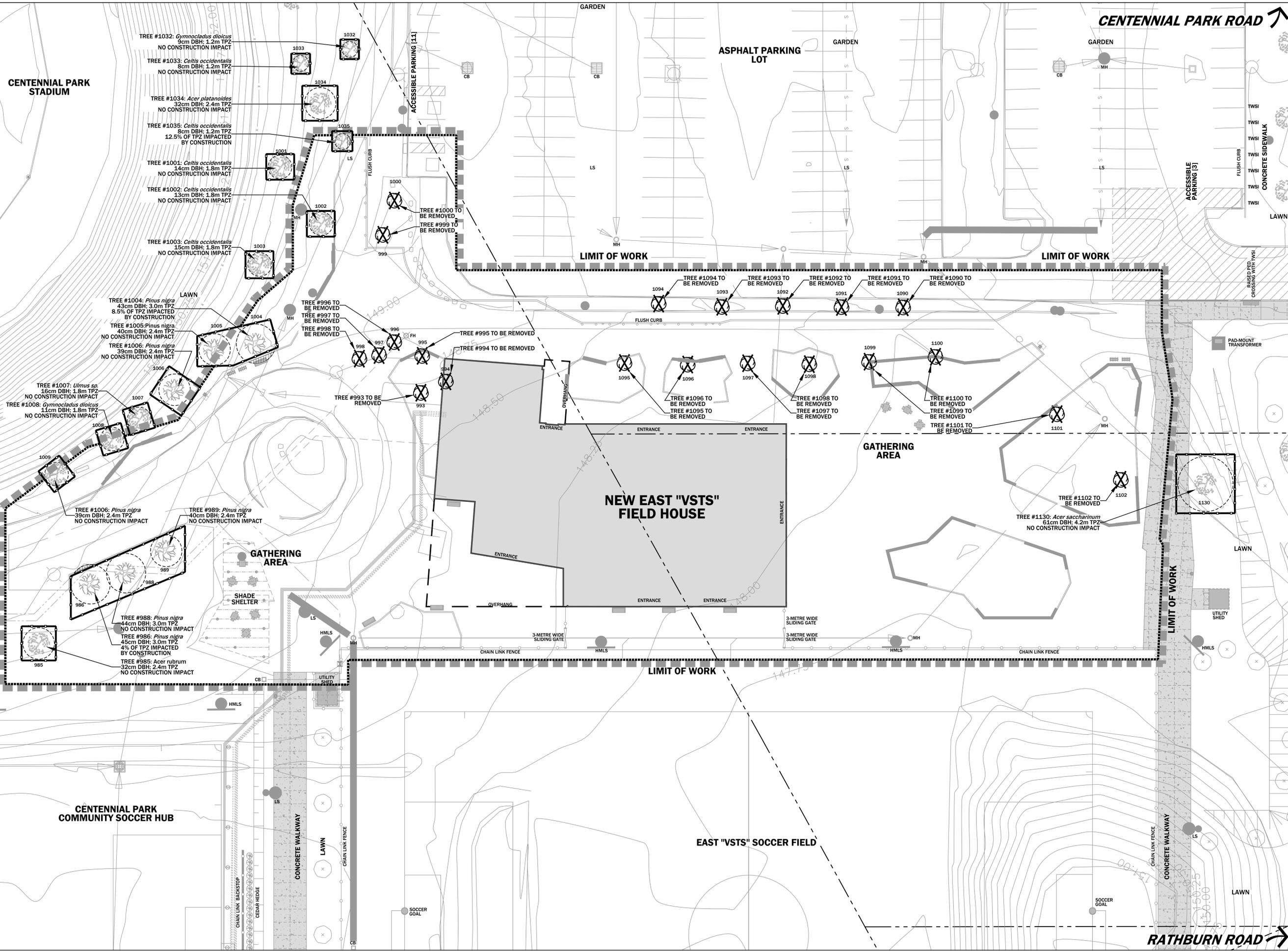


VFA Project: 2309

L1

LANDSCAPE DRAWINGS
COVER SHEET

sheet date: (06/24/19) (6/5/20)



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- LEGEND**
- LIMIT OF WORK AREA
 - PROPERTY BOUNDARY OR EASEMENT
 - SITE SECURITY HOARDING
 - EXISTING TREES AS SURVEYED (left = conifer, right=deciduous)
 - EXISTING TREES AS ESTIMATED BY ARBORIST (various types)
 - EXISTING TREES TO BE REMOVED
 - TREE PROTECTION BARRIER
 - REQUIRED TREE PROTECTION ZONE (TPZ)
 - TREE SYMBOL, AS NOTED ABOVE
 - TREE NUMBER ACCORDING TO ARBORIST INVENTORY ("NOT INVENTORIED" IS UNDERSTOOD TO MEAN THAT TREE HAD BEEN PREVIOUSLY REMOVED BY OTHERS OR WAS OF INSIGNIFICANT SIZE)
 - NEW TREE PLANTING REFER TO PLANTING PLANS

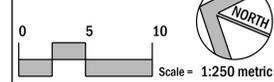
TREE PROTECTION PLAN NOTES:

1. The Contractor is responsible for maintaining a safe and secure work environment for the duration of the work.
2. Install 2-meter high portable, sectional metal fence at perimeter of work area for duration of work until acceptance. Where site fencing is used for tree protection, it shall be staked securely to the ground.
3. Location and extent of fencing shall be verified on-site with Owner and Consultant representatives.
4. The Contractor shall provide adequate signage at main access points and to caution pedestrians regarding construction activities. The Owner will provide informational signs to the Contractor for posting on site fencing at various locations. Contractor's responsibilities shall include maintaining all signage in good condition.
5. Tree protection fencing shall be installed for areas shown on this plan, at a minimum.
6. Tree protection zones (TPZ) have been identified for all trees to be preserved within the vicinity of proposed works for the Contractor's information. The Contractor is responsible to ensure that no works occur or materials are stockpiled within the TPZ of any tree within or outside of the indicated work area.
7. City of Toronto's Tree Protection Policy and Specifications for Construction Near Trees shall govern the work of this project.
8. For new tree plantings, refer to Planting Plan.

03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA	JC
02	2024-11-13	PRELIMINARY	EKA	JC
01	2024-11-08	PRELIMINARY	JC	--
NO	YYYY-MM-DD	REVISION	DN	CH



CENTENNIAL PARK FIFA - EAST VSTS
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3

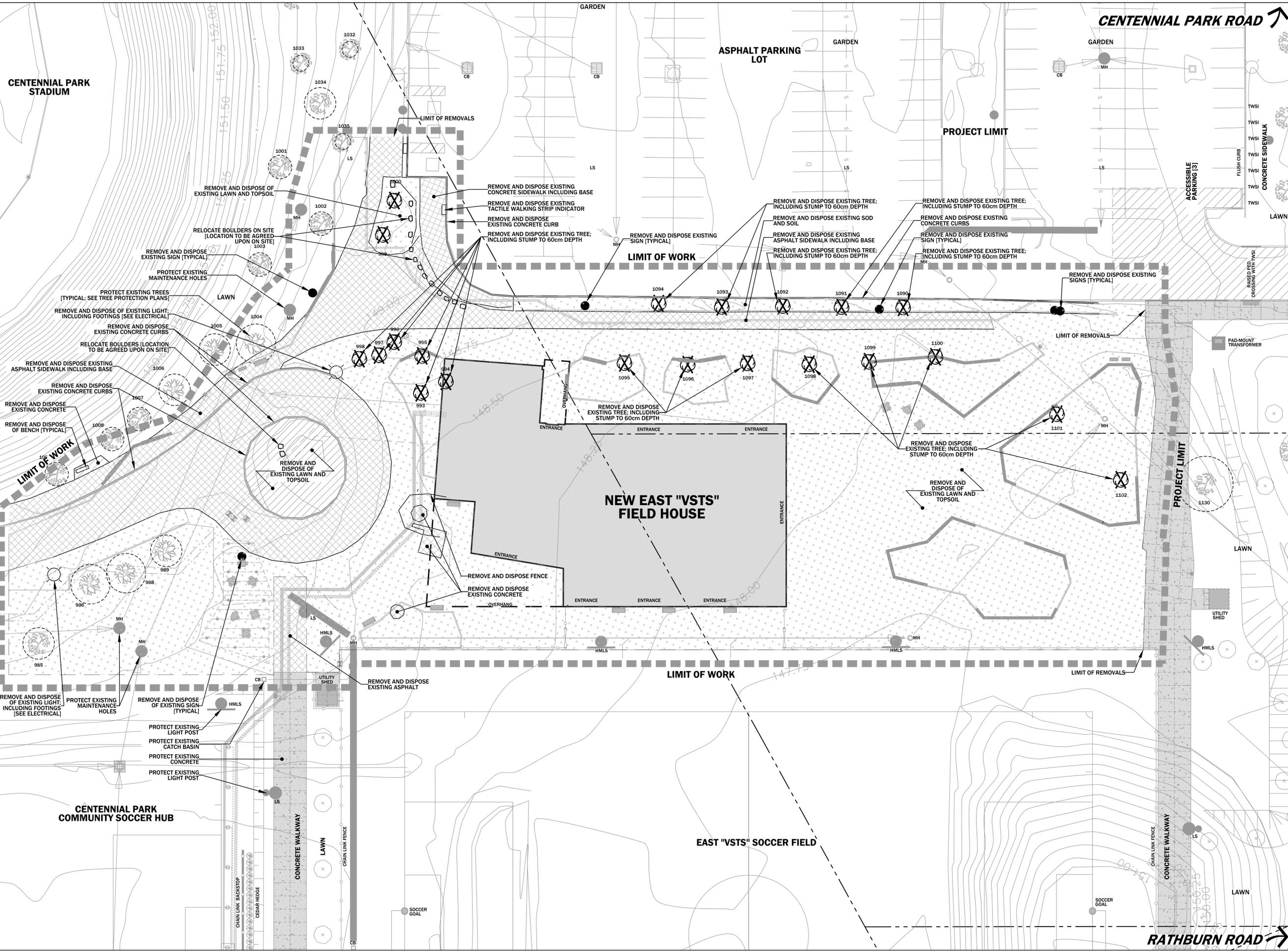


VFA Project: 2309

TREE PROTECTION PLAN

L2

and date (06/24 13:46:50)



CHERIE NG ARCHITECT INC.
www.cheriening.com
T. 416.898.1979



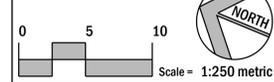
LEGEND AND NOTES:

- LIMIT OF WORK AREA
- - - PROPERTY BOUNDARY OR EASEMENT
- EXISTING TREES AS SURVEYED (left = conifer, right = deciduous)
- EXISTING TREES AS ESTIMATED BY ARBORIST (various types)
- ⊗ EXISTING TREES TO BE REMOVED
- - - STRIP LAWN AND TOPSOIL: (Remove and dispose lawn, stockpile topsoil for re-use.)
- ▨ REMOVE + DISPOSE ASPHALT PAVING OR OTHER HARD SURFACE: including base layers. Stockpile for suitable re-use.

03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA/JC
02	2024-11-13	PRELIMINARY	EKA/JC
01	2024-11-08	PRELIMINARY	JC / -
NO	YYYY-MM-DD	REVISION	DN / CH



CENTENNIAL PARK FIFA - EAST VSTS
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3

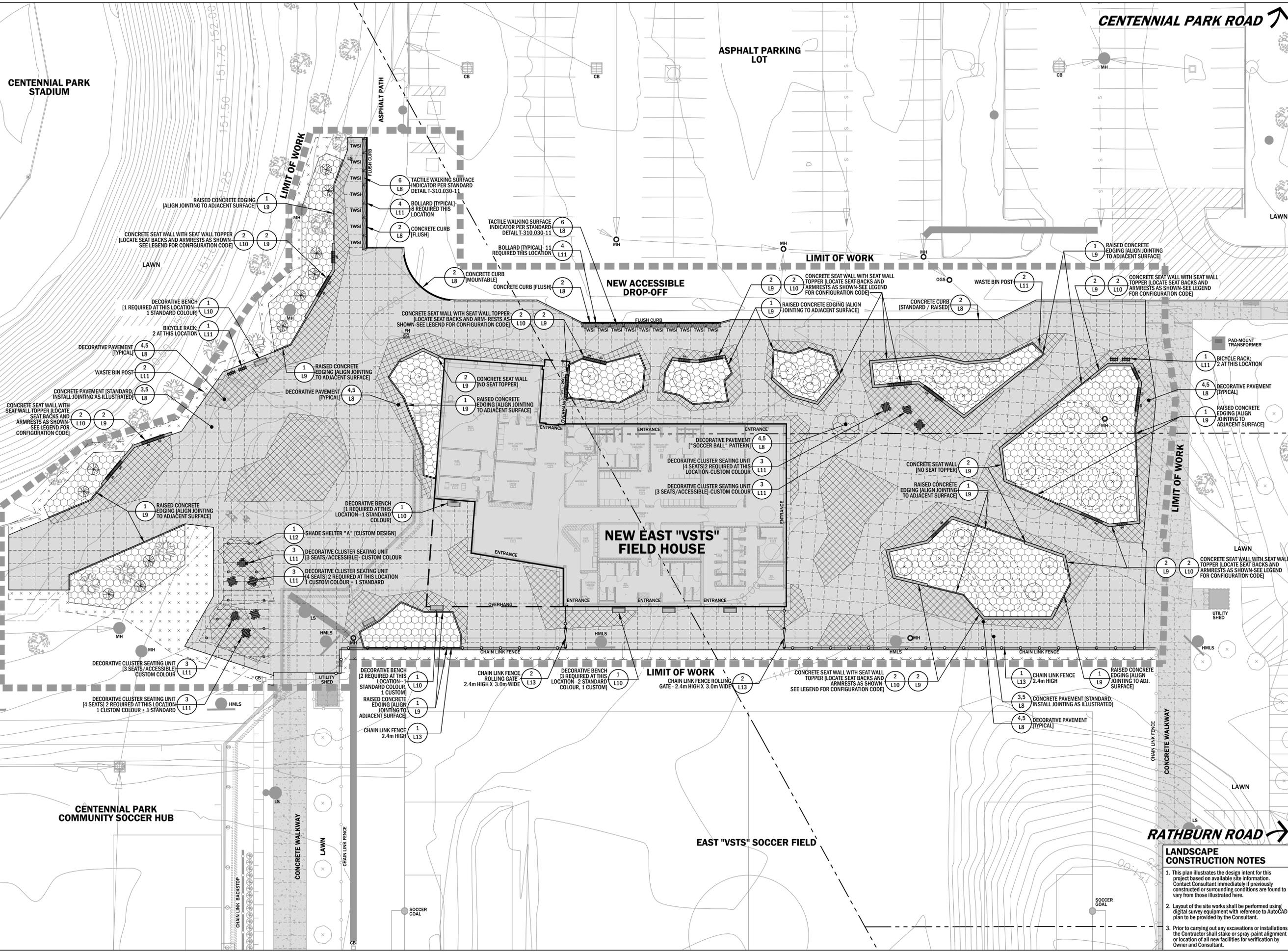


VFA Project: 2309

L3

DEMOLITION PLAN

and date (06/24/19) (6/30/20)



LEGEND

- LIMIT OF WORK
- PROPERTY BOUNDARY OR EASEMENT
- EXISTING TREES AS SURVEYED (left = conifer, right = deciduous)
- EXISTING TREES AS ESTIMATED BY ARBORIST (various types)
- NEW CONCRETE PAVEMENT (dashed line indicated jointing pattern)
- NEW DECORATIVE PAVEMENT (unit pavers on concrete base)
- NEW GENERAL PURPOSE LAWN AREAS
- NEW GARDEN BEDS
- NEW DECORATIVE PARK BENCH (colours vary)
- LANDSCAPE WALL (seat height)
- NEW SEAT WALL TOPPER (46"-backless, with centre armrest)
- NEW SEAT WALL TOPPER (48"-backless, no armrest)
- NEW SEAT WALL TOPPER (49"-with raised back + centre armrest)
- NEW SEAT WALL TOPPER (50"-with raised back, no armrest)
- NEW DECORATIVE CLUSTER SEATING (3 and 4 seat configurations and various colours)
- NEW BICYCLE RACK
- NEW WASTE BIN POST (bins by Parks Solid Waste)
- NEW CHAIN LINK FENCE (2.4 m/8-foot height, galv.)
- NEW CHAIN LINK GATE (types/sizes as noted, galv.)
- NEW BOLLARD (B=fixed, R=removable)
- NEW TREES (species vary)

ABBREVIATIONS:

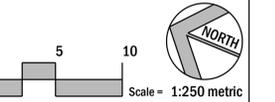
- CB CATCH BASIN
- CBMH COMBINED CATCH BASIN + MAINT. HOLE
- DCB DOUBLE CATCH BASIN
- HMLS HIGH MAST LIGHT STANDARD (sport field)
- HW HANDWELL
- LS LIGHT STANDARD (GENERAL-MAY VARY)
- MH MAINTENANCE HOLE
- OGS OIL-GRIT SEPARATOR
- SI SIGN
- SL STREETLIGHT (EXISTING)
- VV WATER VALVE

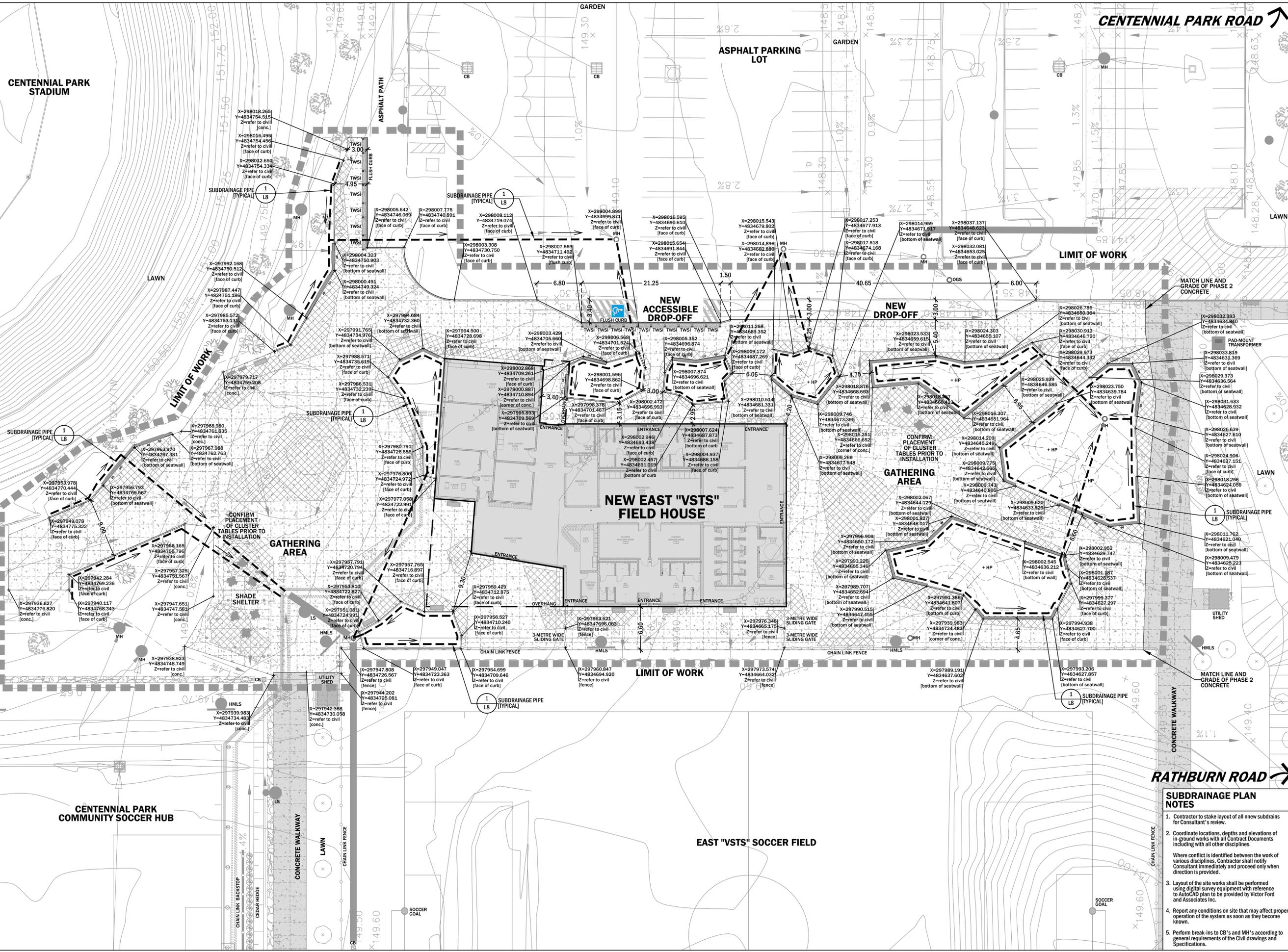
REVISIONS:

03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA	JC
02	2024-11-13	PRELIMINARY	EKA	JC
01	2024-11-08	PRELIMINARY	JC	CH
00	YYYY-MM-DD	REVISION		



CENTENNIAL PARK FIFA - EAST VSTS
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3





LEGEND

- LIMIT OF WORK AREA
- PROPERTY BOUNDARY OR EASEMENT
- EXISTING TREES AS SURVEYED (left = conifer, right = deciduous)
- EXISTING TREES AS ESTIMATED BY ARBORIST (various types)
- PROPOSED SLOPES
- PROPOSED CONTOURS [SCHEMATIC]
- PROPOSED SUBDRAINAGE PIPE: SET DEPTH BELOW BOTTOM OF PLANTING SOIL AND FOLLOW SURFACE GRADE OR GRADE 1% TO DRAIN, IF CONNECTION RESTRICTS DEPTH, NOTIFY CONSULTANT.
- SUBDRAINAGE FLOW DIRECTION

ABBREVIATIONS:

- CB CATCH BASIN
- CBMH COMBINED CATCH BASIN + MAINT. HOLE
- DCB DOUBLE CATCH BASIN
- HMLS HIGH MAST LIGHT STANDARD [sport field]
- HW HANDWALL
- LS LIGHT STANDARD [GENERAL - MAY VARY]
- LS MAINTENANCE LIGHT STANDARD [various types]
- OGS OIL-GRIT SEPARATOR
- SI SIGN
- SL STREETLIGHT [EXISTING]
- WV WATER VALVE

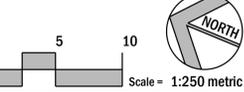
LAYOUT AND GRADING NOTES

- Contractor to stake layout of all new facilities for Consultant's review.
- Coordinate locations, depths and elevations of in-ground works with all Contract Documents including with all other disciplines.
- Where conflict is identified between the work of various disciplines, Contractor shall notify Consultant immediately and proceed only when direction is provided.
- Layout of the site works shall be performed using digital survey equipment with reference to AutoCAD plan to be provided by Victor Ford and Associates Inc.
- Stockpile all suitable excavated materials and any materials indicated to be salvaged for use on-site if applicable. Dispose of all unsuitable or excess materials.
- Soil or granular materials stockpiled on site shall be protected from contamination by tarps or other means until they are installed elsewhere on site.

NO	DATE	REVISION	BY	CHK
03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA	JC
02	2024-11-13	PRELIMINARY	EKA	JC
01	2024-11-08	PRELIMINARY	JC	--
NO	YYYY-MM-DD	REVISION	DN	CH



CENTENNIAL PARK FIFA - EAST VSTS
256 Centennial Park Road,
Toronto, Ontario, M5C 5N3

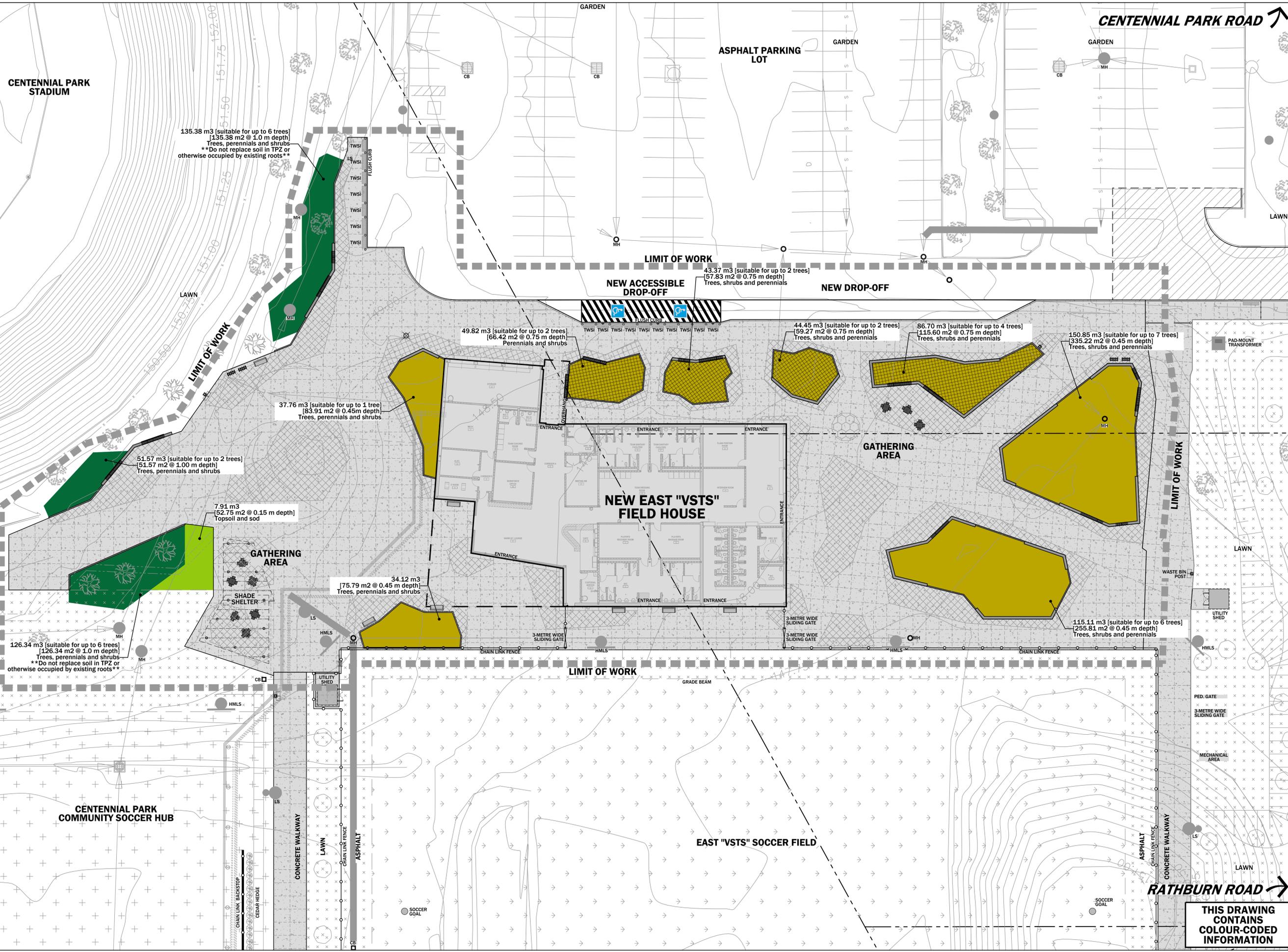


VFA Project: 2309

L5
LAYOUT + GRADING PLAN

SUBDRAINAGE PLAN NOTES

- Contractor to stake layout of all new subdrains for Consultant's review.
- Coordinate locations, depths and elevations of in-ground works with all Contract Documents including with all other disciplines.
- Where conflict is identified between the work of various disciplines, Contractor shall notify Consultant immediately and proceed only when direction is provided.
- Layout of the site works shall be performed using digital survey equipment with reference to AutoCAD plan to be provided by Victor Ford and Associates Inc.
- Report any conditions on site that may affect proper operation of the system as soon as they become known.
- Perform break-ins to CB's and MH's according to general requirements of the civil drawings and Specifications.



CENTENNIAL PARK STADIUM

CENTENNIAL PARK ROAD ↗

ASPHALT PARKING LOT

GARDEN

CHERIE NG ARCHITECT INC.
www.cherienng.com
t. 416.898.1979

VFA
VICTOR FORD & ASSOCIATES INC.
LANDSCAPE ARCHITECTS
112-117 Spadina Avenue, Toronto, Ontario M5T 1S2
vfa@vfa.ca

LEGEND

GROWING MEDIUM MIXES PER CITY OF TORONTO STANDARD SPECIFICATION TS 5.10

- TOPSOIL AND SOD AREAS
TYPE 1 STANDARD MIX TO 0.15 m DEPTH
- "POLLINATOR MEADOW" PLANTING AREAS
TYPE 2 PLANTING BED MIX TO 0.45 m DEPTH
- "POLLINATOR MEADOW" PLANTING AREAS WITH DEEP SOIL
TYPE 2 PLANTING BED MIX TO 0.75 m DEPTH
- "DECORATIVE SCREENING" PLANTING AREAS
TYPE 2 PLANTING BED MIX TO 1.00 m DEPTH

135.38 m³ [suitable for up to 6 trees]
[135.38 m² @ 1.0 m depth]
Trees, perennials and shrubs
Do not replace soil in TPZ or otherwise occupied by existing roots

43.37 m³ [suitable for up to 2 trees]
[57.83 m² @ 0.75 m depth]
Trees, shrubs and perennials

49.82 m³ [suitable for up to 2 trees]
[66.42 m² @ 0.75 m depth]
Perennials and shrubs

44.45 m³ [suitable for up to 2 trees]
[59.27 m² @ 0.75 m depth]
Trees, shrubs and perennials

86.70 m³ [suitable for up to 4 trees]
[115.60 m² @ 0.75 m depth]
Trees, shrubs and perennials

150.85 m³ [suitable for up to 7 trees]
[335.22 m² @ 0.45 m depth]
Trees, shrubs and perennials

37.76 m³ [suitable for up to 1 tree]
[83.91 m² @ 0.45m depth]
Trees, perennials and shrubs

51.57 m³ [suitable for up to 2 trees]
[51.57 m² @ 1.00 m depth]
Trees, perennials and shrubs

7.91 m³
[52.75 m² @ 0.15 m depth]
Topsoil and sod

34.12 m³
[75.79 m² @ 0.45 m depth]
Trees, perennials and shrubs

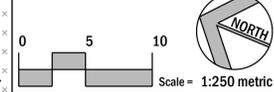
126.34 m³ [suitable for up to 6 trees]
[126.34 m² @ 1.0 m depth]
Trees, perennials and shrubs
Do not replace soil in TPZ or otherwise occupied by existing roots

115.11 m³ [suitable for up to 6 trees]
[255.81 m² @ 0.45 m depth]
Trees, shrubs and perennials

03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA	JC
02	2024-11-13	PRELIMINARY	EKA	JC
01	2024-11-08	PRELIMINARY	JC	--
NO	YYYY-MM-DD	REVISION	DN	CH



CENTENNIAL PARK FIFA - EAST VSTS
250 Centennial Park Road,
Toronto, Ontario, M9C 5N3



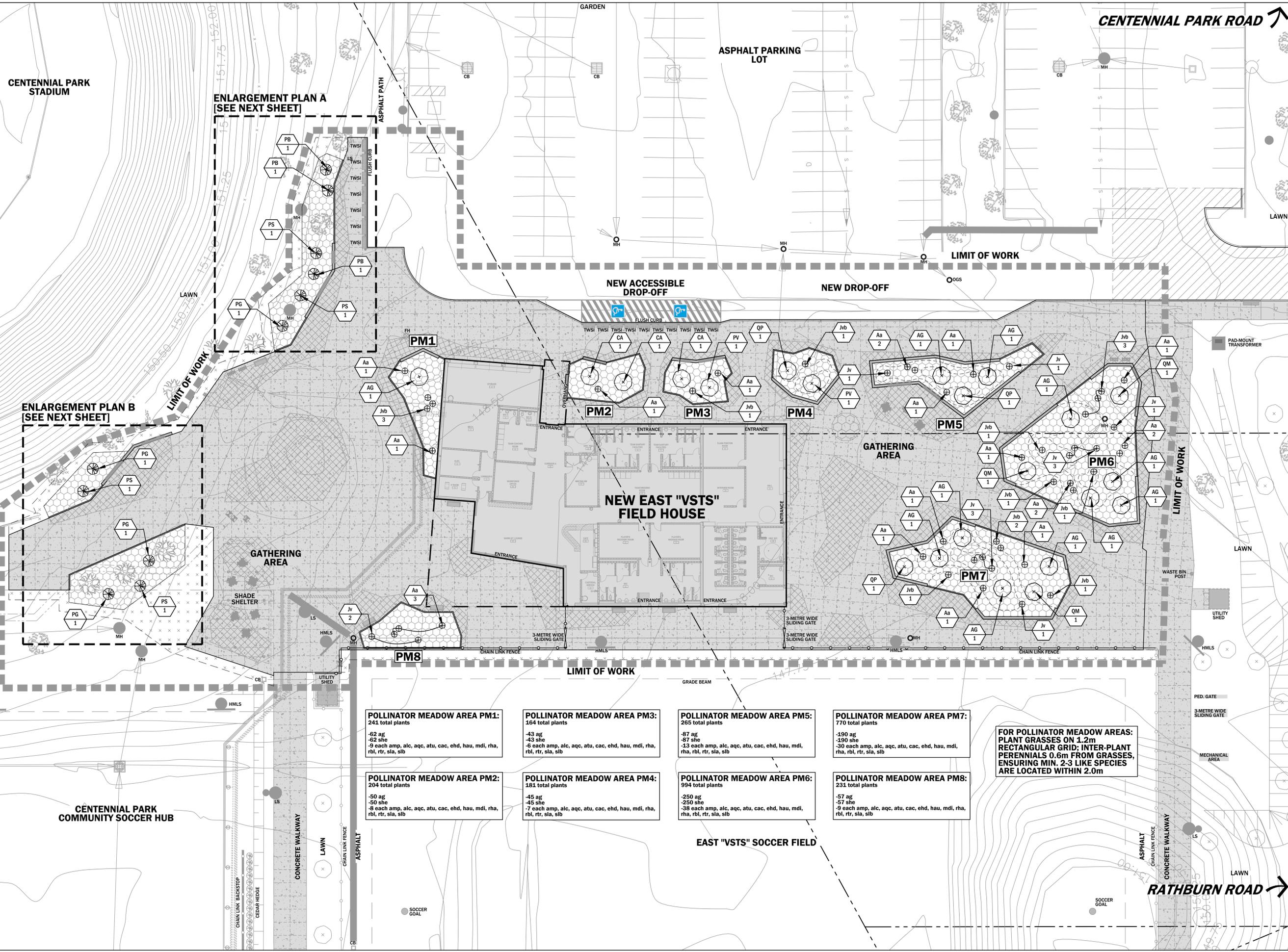
VFA Project: 2309

**THIS DRAWING
CONTAINS
COLOUR-CODED
INFORMATION**

L6

SOIL PROVISION PLAN

and date (06/24 13:16:00)



**ENLARGEMENT PLAN A
[SEE NEXT SHEET]**

**ENLARGEMENT PLAN B
[SEE NEXT SHEET]**

**NEW EAST "VSTS"
FIELD HOUSE**

EAST "VSTS" SOCCER FIELD

CENTENNIAL PARK ROAD

RATHBURN ROAD

**CHERIE NG
ARCHITECT
INC.**
www.cherien.com
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VFA
VICTOR FORD & ASSOCIATES INC.
LANDSCAPE ARCHITECTS
122-112 Spadina Avenue, Toronto, Ontario M5S 2E1
www.victorford.ca

LEGEND

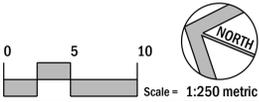
- LIMIT OF WORK AREA
- EXISTING TREES AS SURVEYED (left = conifer, right = deciduous)
- EXISTING TREES AS ESTIMATED BY ARBORIST (various types)
- NEW DECIDUOUS TREES
 - CA Cercis canadensis
 - QM Quercus macrocarpa
 - QP Quercus palustris
 - AG Acer grandidentatum x saccharum "Highland Park"
 - PV Prunus virginiana
- NEW CONIFEROUS TREES
 - PG Picea glauca
 - PB Pinus banksiana
 - PS Pinus strobus
- NEW LAWN AREAS
- NEW SHRUBS, PERENNIALS AND GRASSES IN "DECORATIVE SCREENING" PLANTING BEDS
 - Am Aronia melanocarpa
 - Cs Cosmos sericea
 - Ec Eragrostis commutata
 - amc Achillea millefolium "Cerise Queen"
 - alc Agastache foeniculum "Blue Fortune"
 - alc Allium certinum
 - ah Allium hollandicum "Purple Sensation"
 - amc Anemone tuberosa
 - ag Andropogon gerardii
 - ca Camassia scilloides
 - nca Narcissus "Carlton"
 - pru Philomis russelliana
 - sne Salvia nemorosa "Blaukroenigen"
 - sib Symplocitricum lateriflorum "Lady in Black"
 - sng Symplocitricum novae-angliae "Grape Crush"
- NEW SHRUBS, PERENNIALS AND GRASSES IN "POLLINATOR MEADOW" PLANTING BEDS
 - Aa Amelanchier arborea
 - Jv Juniperus virginiana
 - Jvb Juniperus virginiana "Blue Arrow"
 - amp Achillea millefolium "Paprika"
 - alc Allium certinum
 - ag Andropogon gerardii "Red October"
 - amc Aquilegia canadensis
 - atu Acceliplex tuberosa
 - cac Castilleja coccinea
 - cg Chelone glabra
 - ehd Echinacea pallida "Hula Dancer"
 - hau Helianthus autumnale
 - mdi Monarda didyma
 - rha Rhus aromatica
 - rbl Rosa blanda
 - rrt Rudbeckia triloba
 - sia Silphium laciniatum
 - she Sporobolus heterolepis
 - sib Symplocitricum lateriflorum "Lady in Black"

PLANT ABBREV.	QUANTITY	DETAIL NUMBER(S)	(ITEM DESCRIPTION)	NUMBER WHERE DETAIL IS FOUND
CA	1	1		
S2	1	1		

NO	DATE	REVISION	BY	CHK
03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA	JC
02	2024-11-13	PRELIMINARY	EKA	JC
01	2024-11-08	PRELIMINARY	JC	---
NO	YYYY-MM-DD	REVISION		



**CENTENNIAL PARK
FIFA - EAST VSTS**
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3



VFA Project: 2309

L7
PLANTING PLAN

POLLINATOR MEADOW AREA PM1:
241 total plants
-62 ag
-62 she
-9 each amp, alc, aqc, atu, cac, ehd, hau, mdi, rha, rbl, rtr, sla, slb

POLLINATOR MEADOW AREA PM3:
164 total plants
-43 ag
-43 she
-6 each amp, alc, aqc, atu, cac, ehd, hau, mdi, rha, rbl, rtr, sla, slb

POLLINATOR MEADOW AREA PM5:
265 total plants
-87 ag
-87 she
-13 each amp, alc, aqc, atu, cac, ehd, hau, mdi, rha, rbl, rtr, sla, slb

POLLINATOR MEADOW AREA PM7:
770 total plants
-190 ag
-190 she
-30 each amp, alc, aqc, atu, cac, ehd, hau, mdi, rha, rbl, rtr, sla, slb

**FOR POLLINATOR MEADOW AREAS:
PLANT GRASSES ON 1.2m
RECTANGULAR GRID; INTER-PLANT
PERENNIALS 0.6m FROM GRASSES,
ENSURING MIN. 2-3 LIKE SPECIES
ARE LOCATED WITHIN 2.0m**

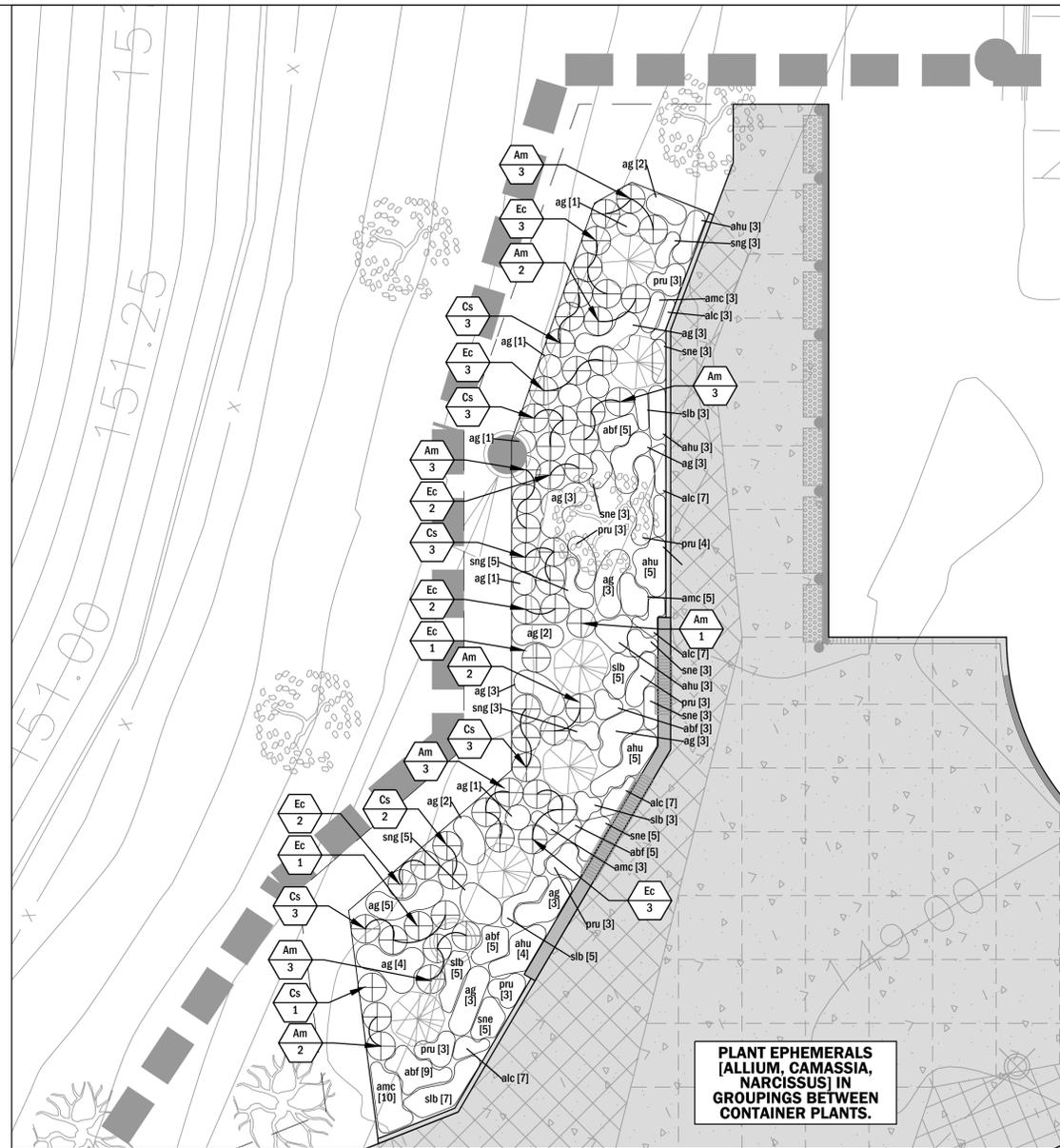
POLLINATOR MEADOW AREA PM2:
204 total plants
-50 ag
-50 she
-8 each amp, alc, aqc, atu, cac, ehd, hau, mdi, rha, rbl, rtr, sla, slb

POLLINATOR MEADOW AREA PM4:
181 total plants
-45 ag
-45 she
-7 each amp, alc, aqc, atu, cac, ehd, hau, mdi, rha, rbl, rtr, sla, slb

POLLINATOR MEADOW AREA PM6:
181 total plants
-250 ag
-250 she
-38 each amp, alc, aqc, atu, cac, ehd, hau, mdi, rha, rbl, rtr, sla, slb

POLLINATOR MEADOW AREA PM8:
994 total plants
-57 ag
-57 she
-9 each amp, alc, aqc, atu, cac, ehd, hau, mdi, rha, rbl, rtr, sla, slb

and date (06/24 13:46:00)



ENLARGEMENT PLAN A



ENLARGEMENT PLAN B

LEGEND

--- LIMIT OF WORK AREA

○ EXISTING TREES AS SURVEYED (left = conifer, right = deciduous)

○ EXISTING TREES AS ESTIMATED BY ARBORIST (various types)

NEW SHRUBS, PERENNIALS AND GRASSES IN "DECORATIVE SCREENING" PLANTING BEDS

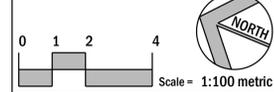
Am *Aronia melanocarpa*
Cs *Cornus sericea*
Ec *Elaeagnus commutata*
amc *Acutella millefolium* "Crisse Queen"
alc *Allium cernuum*
abf *Agastache foeniculum* "Blue Fortune"
ah *Allium hollandicum* "Purple Sensation"
ahu *Amsonia hubrichtii*
ag *Andropogon gerardii*
cs *Camassia scilloides*
nca *Narcissus "Carlton"*
pru *Phloxis russelliana*
sne *Salvia nemorosa* "Blaukoenigin"
slb *Symphoricarpon lateriflorum* "Lady in Black"
sng *Symphoricarpon novae-angliae* "Grape Crush"

CA	PLANT ABBREV.	1	DETAIL NUMBER(S)
52	QUANTITY	LS	(ITEM DESCRIPTION) DRAWING SHEET NUMBER WHERE DETAIL IS FOUND

NO	YYYY-MM-DD	REVISION	DN	CH
03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA	JC
02	2024-11-13	PRELIMINARY	EKA	JC
01	2024-11-08	PRELIMINARY	JC	--



CENTENNIAL PARK FIFA - EAST VSTS
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3



VFA Project: 2309

L7A
PLANTING PLAN
ENLARGEMENT PLAN

amr date (06/24 13:16:50)

EVERGREEN GROVES AND DECORATIVE SCREENING AREAS

POLLINATOR MEADOW AREAS

CONIFEROUS TREES

PB	<i>Pinus banksiana</i>	Jack Pine	3	250 cm HT.	wire basket	6/L8.20	
PG	<i>Picea glauca</i>	White Spruce	4	250 cm HT.	wire basket	6/L8.20	
PS	<i>Pinus strobus</i>	Eastern White Pine	4	250 cm HT.	wire basket	6/L8.20	

SHRUBS

Am	<i>Aronia melanocarpa</i>	Black Chokeberry	35	3-gallon	potted	4/L8.20	
Cs	<i>Cornus sericea</i>	Red Osier Dogwood	34	3-gallon	potted	4/L8.20	
Ec	<i>Eleagnus commutata</i>	Wolf Willow / Silverberry	33	3-gallon	potted	4/L8.20	

GRASSES

ag	<i>Andropogon gerardii</i>	Big Bluestem	88	3-gallon	potted	3/L8.20	Space at 75 cm on-center or as indicated.
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PERENNIALS

amc	<i>Achillea millefolium 'Cerise Queen'</i>	Cerise Queen Yarrow	86	1-gallon	potted	3/L8.20	Space at 45 cm on-center or as indicated.
abf	<i>Agastache foeniculum 'Blue Fortune'</i>	Blue Fortune Anise Hyssop	74	1-gallon	potted	3/L8.20	Space at 45 cm on-center or as indicated.
alc	<i>Allium cernuum</i>	Nodding Onion	107	1-gallon	potted	3/L8.20	Space at 30 cm on-center or as indicated.
ahu	<i>Amsonia hubrichtii</i>	Arkansas Bluestar	76	1-gallon	potted	3/L8.20	Space at 60 cm on-center or as indicated.
pru	<i>Phlomis russelliana</i>	Turkish Sage	70	1-gallon	potted	3/L8.20	Space at 60 cm on-center or as indicated.
sne	<i>Salvia nemorosa 'Blaukoeniggin'</i>	Blue Queen Meadow Sage	80	1-gallon	potted	3/L8.20	Space at 45 cm on-center or as indicated.
slb	<i>Symphotrichum lateriflorum 'Lady in Black'</i>	Lady in Black Calico Aster	74	1-gallon	potted	3/L8.20	Space at 45 cm on-center or as indicated.
sng	<i>Symphotrichum novae-angliae 'Grape Crush'</i>	Grape Crush Aster	65	1-gallon	potted	3/L8.20	Space at 45 cm on-center or as indicated.

EPHEMERALS

ah	<i>Allium hollandicum 'Purple Sensation'</i>	Purple Sensation Ornamental Onion	-	n/a	bulb	n/a	See plans.
cs	<i>Camassia scilloides</i>	Wild Hyacinth, Atlantic Camas	-	n/a	bulb	n/a	See plans.
nca	<i>Narcissus 'Carlton'</i>	Carlton Daffodil	-	n/a	bulb	n/a	See plans.

DECIDUOUS TREES

AG	<i>Acer grandidentatum x saccharum 'Highland Park' (HIPZAM)</i>	Highland Park Maple	12	70 mm CAL.	wire basket	6/L8.20	
CA	<i>Cercis canadensis</i>	Redbud	3	70 mm CAL.	wire basket	6/L8.20	Straight species only Multi-stem min 3 stems
PV	<i>Prunus virginiana</i>	Chokecherry	2	70 mm CAL.	wire basket	6/L8.20	Straight species only Multi-stem min 3 stems
QM	<i>Quercus macrocarpa</i>	Bur Oak	3	70 mm CAL.	wire basket	6/L8.20	
QP	<i>Quercus palustris</i>	Pin Oak	3	70 mm CAL.	wire basket	6/L8.20	

CONIFEROUS SHRUBS

Jv	<i>Juniperus virginiana</i>	Eastern Red Cedar	7	200 cm HT.	wire basket	4/L8.20	
Jvb	<i>Juniperus virginiana 'Blue Arrow'</i>	Blue Arrow Eastern Red Cedar	10	150 cm HT.	potted	4/L8.20	

SHRUBS

Aa	<i>Amelanchier arborea</i>	Downy Serviceberry	16	5-gallon	potted	4/L8.20	Multi-stem minimum 3 stems
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GRASSES

ag	<i>Andropogon gerardii</i>	Big Bluestem	784	1-gallon	potted	3/L8.20	
she	<i>Sporobolus heterolepis</i>	Prairie Dropseed	784	1-gallon	potted	3/L8.20	

PERENNIALS

amp	<i>Achillea millefolium 'Paprika'</i>	Paprika Yarrow	120	1-gallon	potted	3/L8.20	
alc	<i>Allium cernuum</i>	Nodding Onion	120	1-gallon	potted	3/L8.20	
aqc	<i>Aquilegia canadensis</i>	Wild Columbine	120	1-gallon	potted	3/L8.20	
atu	<i>Asclepias tuberosa</i>	Butterfly Milkweed	120	1-gallon	potted	3/L8.20	
cac	<i>Castilleja coccinea</i>	Indian Paintbrush	120	1-gallon	potted	3/L8.20	
ehd	<i>Echinacea pallida 'Hula Dancer'</i>	Hula Dancer Pale Purple Coneflower	120	1-gallon	potted	3/L8.20	
hau	<i>Helenium autumnale</i>	Marsh Sneezeweed	120	1-gallon	potted	3/L8.20	
mdi	<i>Monarda didyma</i>	Red Bee Balm	120	1-gallon	potted	3/L8.20	
rha	<i>Rhus aromatica</i>	Fragrant Sumac	120	1-gallon	potted	3/L8.20	shrub to be planted/spaced as perennial
rbl	<i>Rosa blanda</i>	Early Wild Rose	120	1-gallon	potted	3/L8.20	shrub to be planted/spaced as perennial
rtr	<i>Rudbeckia triloba</i>	Three Lobed Coneflower	120	1-gallon	potted	3/L8.20	
sla	<i>Silphium laciniatum</i>	Compassplant	120	1-gallon	potted	3/L8.20	
slb	<i>Symphotrichum lateriflorum 'Lady in Black'</i>	Lady in Black Calico Aster	120	1-gallon	potted	3/L8.20	

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www.cherienng.com
t. 416.898.1979



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NO	YYYY-MM-DD	REVISION	DN/CH



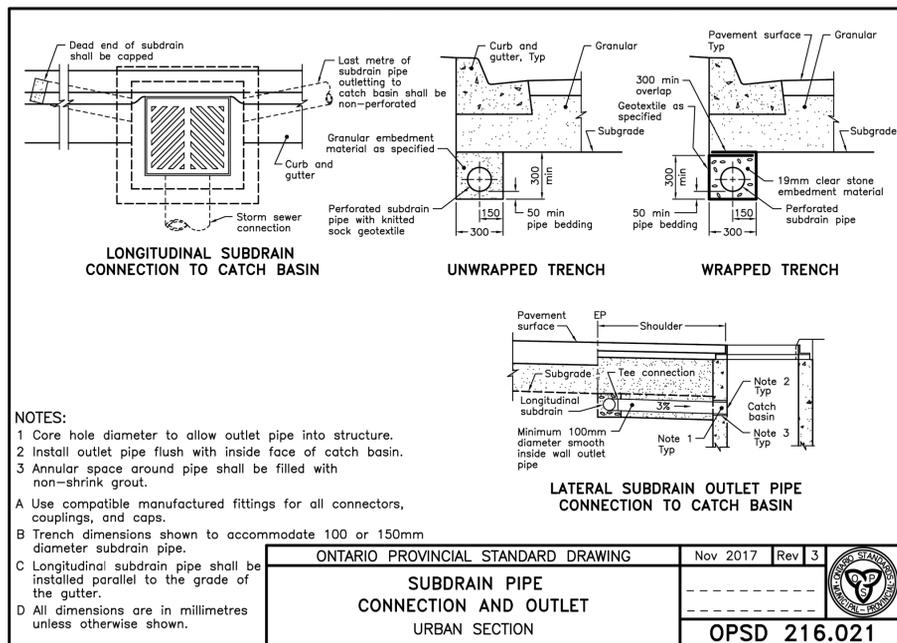
CENTENNIAL PARK FIFA - EAST VSTS
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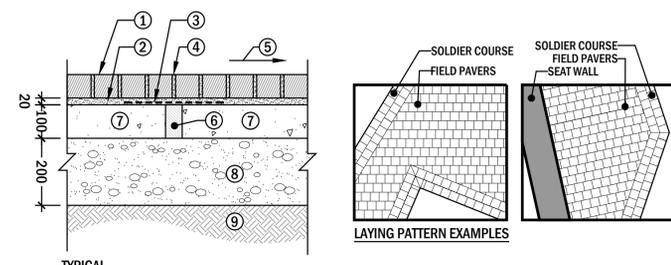
THIS DRAWING CONTAINS COLOUR-CODED INFORMATION

VFA Project: 2309 **L7B**
PLANTING LEGEND

and date (06/24 13:16:50)



1 SUBDRAIN PIPE CONNECTION AND OUTLET
OPSD 216.021

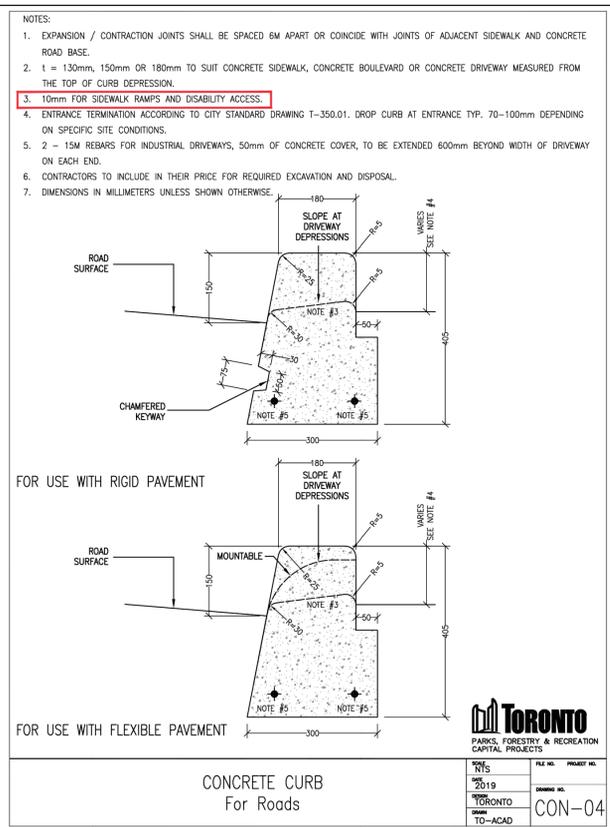


- 1 INTERLOCKING PAVERS: ECO-PRIORA BY UNILOCK WITH "SERIES" FINISH-COLOUR TO BE 70% BLACK GRANITE AND 30% MOUNTAIN MIST MIXED RANDOMLY; PATTERN TO BE STAGGERED BOND WITH 2 ROWS OF SOLDIER COURSE ON ALL EDGES EXCEPT WHERE PAVERS ABUT A RAISED EDGE OR WALL.
- 2 SETTING BED: MIN 20mm DEPTH BEDDING SAND; AS SPECIFIED
- 3 COVER WEEP HOLE WITH 300mm X 300mm FILTER FABRIC
- 4 SWEEP POLYMERIC JOINTING SAND INTO JOINTS; AS SPECIFIED
- 5 SLOPE PAVEMENT, SUB-BASE AND SUB-GRADE AS INDICATED ON THE GRADING PLAN
- 6 50mm WEEP HOLE: MIN. 2000mm SPACING THROUGHOUT PLUS EVERY 1000mm AT 400mm FROM LOW EDGE
- 7 CAST-IN PLACE CONCRETE BASE; 100mm DEPTH; COMPLETE WITH JOINTING; MIN. 32 MPa COMPRESSIVE STRENGTH; AS SPECIFIED
- 8 200mm MIN. DEPTH GRANULAR 'A' BASE COMPACTED TO A DENSITY OF 100% S.P.M.D.
- 9 EXISTING SUBGRADE OR APPROVED FILL, COMPACTED TO 100% S.P.M.D. TO A DEPTH OF 300mm BENEATH NEW PAVEMENT

NOTE:
- COMPLETE PRODUCT SUBMITTALS AND REVIEW OF LAYOUT ARE REQUIRED.
- ANY PROPOSED SUBSTITUTIONS MUST BE APPROVED BY CONSULTANT PRIOR TO ORDERING.

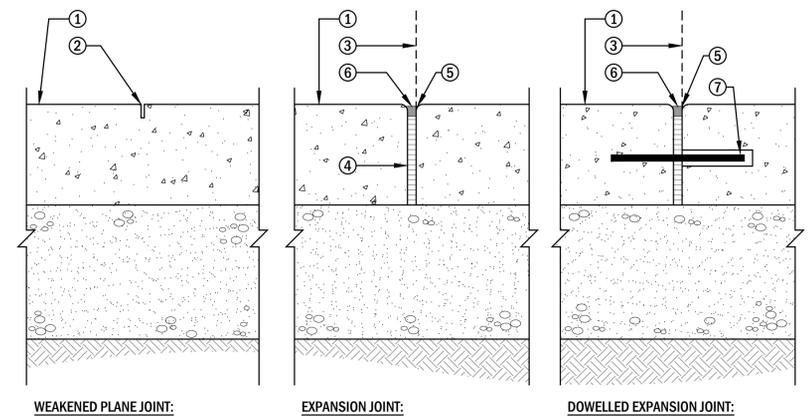
4 DECORATIVE PAVEMENT
UNIT PAVERS ON CONCRETE BASE

SCALE = 1:10 (METRIC)



2 CONCRETE CURB
DETAIL CON-04

NOTES:
- INSTALL OVER 200mm THICK X 500mm WIDE GRANULAR 'A' BASE COMPACTED TO 100% S.P.M.D.D.
- IF MONOLITHIC CURB IS PROPOSED, CONTRACTOR SHALL SEEK CONSULTANT'S REVIEW
- 10mm FOR SIDEWALK RAMPS AND DISABILITY ACCESS.

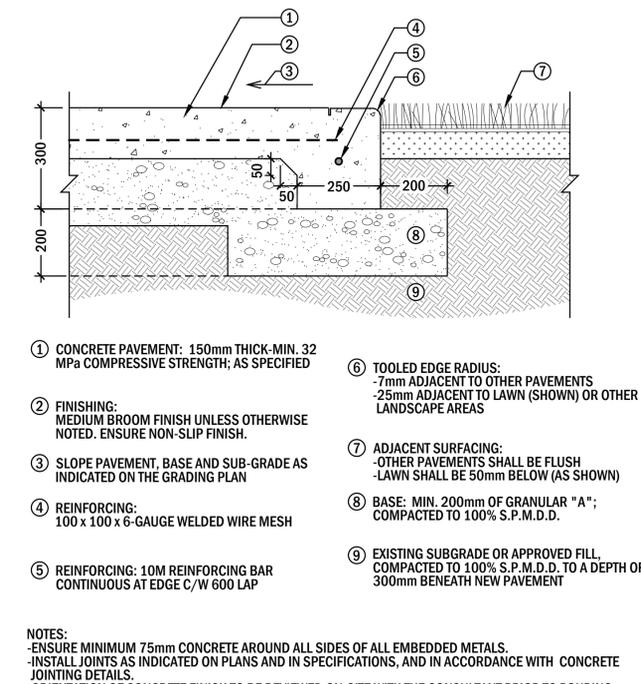


- 1 CONCRETE PAVEMENT, AS SPECIFIED
- 2 WEAKENED PLANE JOINT: LAY-OUT AS PER PLANS & SPECIFICATIONS; 40 mm DEPTH x APPROX. 5 mm WIDTH; SHALL BE HAND-TOOLED WHERE ACCESS FOR SAW IS OBSTRUCTED OR WHERE DESIGN CALLS FOR CURVATURES THAT CANNOT BE CUT BY SAW
- 3 FACE OF WALL OR CURB, WHERE APPLICABLE
- 4 SPECIFIED BITUMINOUS FIBRE EXPANSION JOINT MATERIAL; FULL-DEPTH, AS SHOWN
- 5 7 mm RADIUS (TYPICAL)
- 6 COLOUR-MATCHED EPOXY-BASED JOINT SEALANT; AS SPECIFIED - PROVIDE OPTIONS FOR CONSULTANT'S APPROVAL
- 7 SLEEVED DOWEL: USE PURPOSE-MADE PRODUCT SUCH AS SPEE-D DOWEL BY SIKA; SPACE @ 750 UNLESS INDICATES OTHERWISE

NOTES:
- FULL-DEPTH SAW CUT JOINTS ARE NOT AN ACCEPTABLE SUBSTITUTION FOR EXPANSION JOINTS.
- INSTALL JOINTS AS INDICATED ON PLANS AND SPECIFICATIONS AND IN ACCORDANCE WITH TYPICAL DETAILS.
- PROPOSED SUBSTITUTIONS IN JOINTING MATERIALS OR METHODS MUST BE SUBMITTED FOR REVIEW AND MAY NOT BE ACCEPTED.

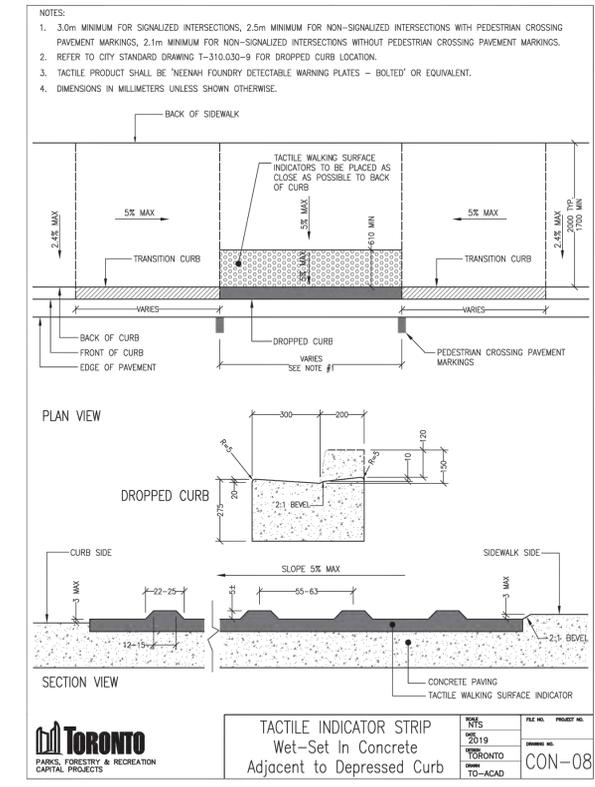
5 CONCRETE JOINTING
FOR ALL CONCRETE PAVEMENTS

SCALE = 1:5 (METRIC)



3 CONCRETE PAVEMENT

SCALE = 1:10 (METRIC)



6 TACTILE WALKING SURFACE INDICATOR (TWSI)
DETAIL CON-08

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FIFA - EAST VSTS
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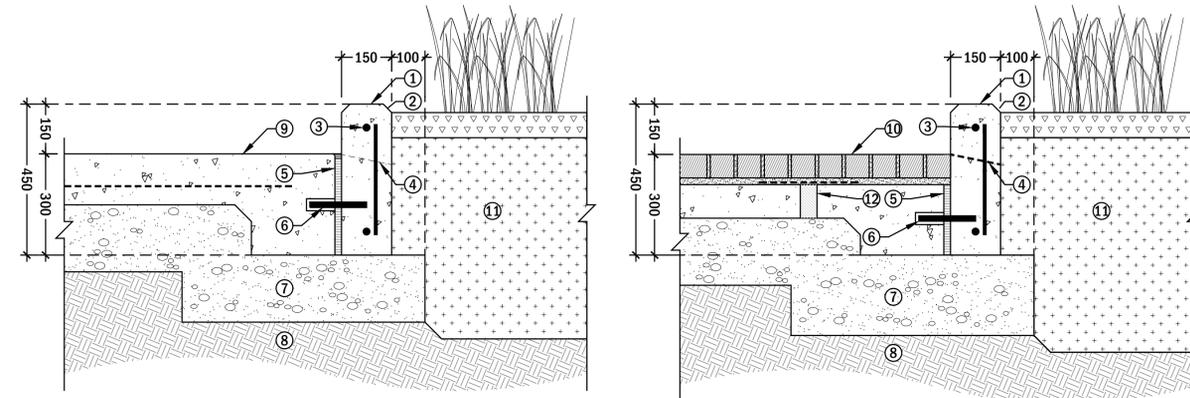


VFA Project: 2309

L8

LANDSCAPE
DETAILS 1

and date (8/22/19) (6/30)



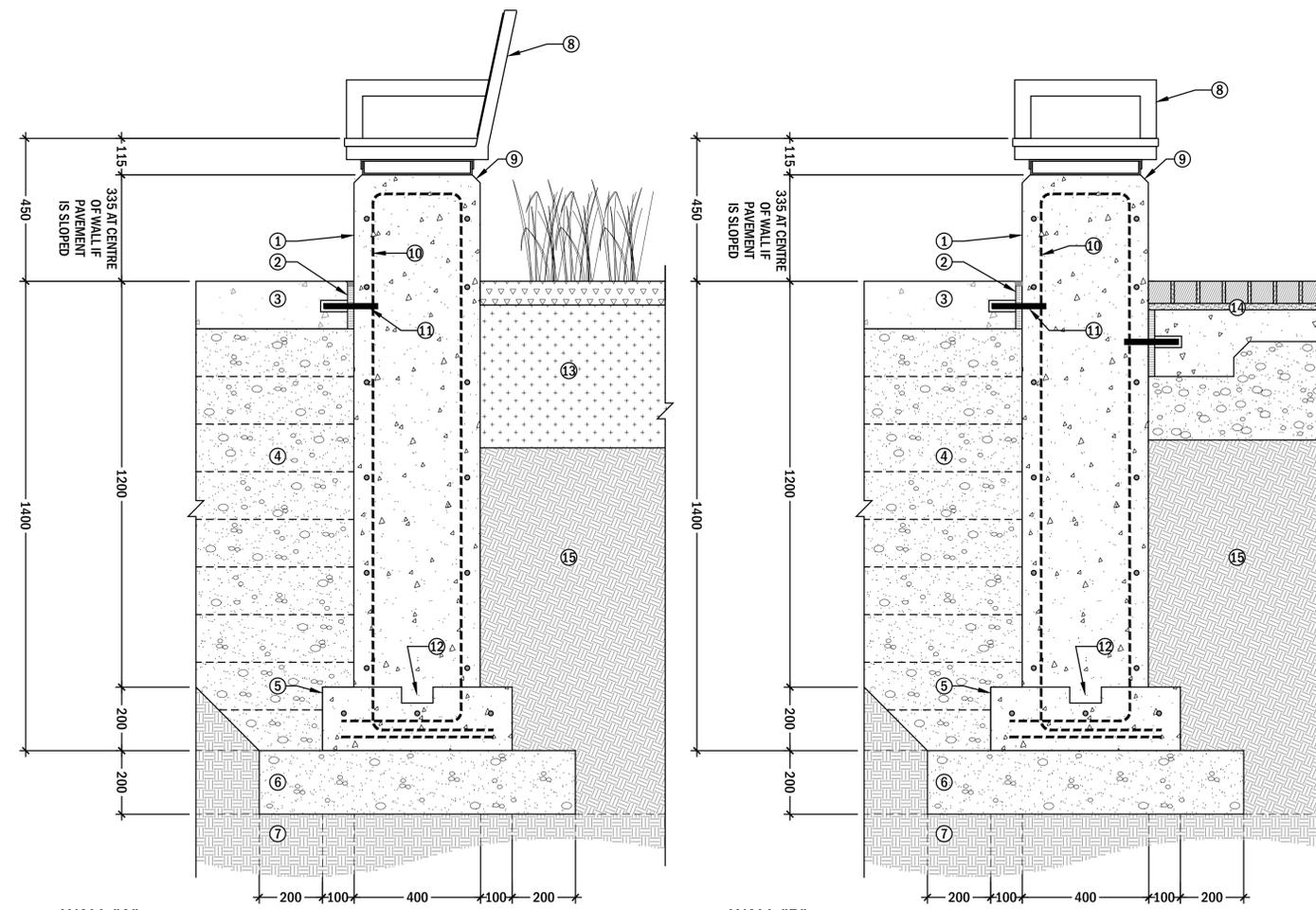
BETWEEN CONCRETE AND PLANTING BED

BETWEEN UNIT PAVERS AND PLANTING BED

- ① CONCRETE PLANTER EDGE: TROWEL FINISH TOP, FORM FINISH VERTICAL FACES
- ② 25 mm CHAMFER
- ③ REINFORCING: TWO 10m REINFORCING BARS CONTINUOUS C/W 600mm LAP; VERTICAL 10m BARS EVERY 300mm
- ④ CURB DEPRESSION, WHERE INDICATED; 30mm FALL, FRONT-TO-BACK
- ⑤ EXPANSION JOINT
- ⑥ SLEEVED DOWEL- USE PURPOSE-MADE PRODUCT SUCH AS SPEE-D DOWEL BY SIKA; SPACE @ 750 UNLESS INDICATES OTHERWISE
- ⑦ 200mm DEPTH GRANULAR 'A' BASE COMPACTED TO 100% S.P.M.D.-TYPICAL
- ⑧ COMPACTED SUB-GRADE
- ⑨ ADJACENT CONCRETE PAVEMENT
- ⑩ ADJACENT UNIT PAVERS ON CONCRETE BASE
- ⑪ ADJACENT PLANTING BED- REFER TO SOIL PROVISION PLAN AND LAYOUT AND GRADING PLAN
- ⑫ 50mm WEEP HOLE; MIN. 2000mm SPACING THROUGHOUT PLUS EVERY 1000mm at 400mm FROM LOW EDGE

1 RAISED CONCRETE EDGING AT GARDEN BEDS

SCALE 1:10 (METRIC)



2 CONCRETE SEAT WALL WITH SEAT TOPPER

- ① REINFORCED CONCRETE WALL: TROWEL FINISH EXPOSED TOP, FORM FINISH OTHER EXPOSED FACES-MIN. 32 MPa COMPRESSIVE STRENGTH; AS SPECIFIED
- ② DOWELLED EXPANSION JOINT DETAILED ELSEWHERE
- ③ PAVEMENT DETAILED ELSEWHERE; THICKENED EDGE MAY BE OMITTED
- ④ BACKFILL EXCAVATION WITH GRANULAR 'A'; COMPACT TO 100% SPMDD IN MAX. 150 LIFTS
- ⑤ CONCRETE FOOTING- MIN. 32 MPa COMPRESSIVE STRENGTH; AS SPECIFIED
- ⑥ 200 THICK GRANULAR 'A' BASE COMPACTED TO 100% SPMDD
- ⑦ COMPACTED SUBGRADE- COMPACTED TO 100% S.P.M.D. TO A DEPTH OF 300mm BENEATH NEW PAVEMENT
- ⑧ SEAT WALL TOPPER AS SPECIFIED; INSTALL WHERE INDICATED PER MANUFACTURER'S INSTRUCTIONS
- ⑨ 10 mm CHAMFER ON EXPOSED VERTICAL AND HORIZONTAL EDGES
- ⑩ 10 m REINFORCING BARS AT 300MM SPACING BOTH WAYS; ALTERNATE BENDS INTO FOOTING; 600MM MINIMUM GAP
- ⑪ DOWELLED JOINT USE SPEE-D DOWEL OR SIMILAR, 200mm MINIMUM- DOWELED JOINT DETAILED ELSEWHERE
- ⑫ 100x50 (NOMINAL) KEY
- ⑬ ADJACENT PLANTING BED
- ⑭ ADJACENT UNIT PAVERS ON CONCRETE BASE
- ⑮ UNDISTURBED SUBGRADE- IF EXCAVATED, BACKFILL AS IN NOTE #4

SCALE = 1:10 (METRIC)

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VFA Project: 2309

L9

LANDSCAPE
DETAILS 2

and date (06/24 13:16:50)

<p>OGM1900-SS6-WFB</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>OGM1900-MS4</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>OGM1900-SS6-WFB</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>OGM1900-MS4</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>
<p>OGM1900-CA1</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>ELEV. VIEW: BACKLESS W/ CA1 AND MS4</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>ELEV. VIEW: BACKLESS W/ MS4</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	
<p>MAGLIN THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAGLIN SITE FURNITURE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAGLIN SITE FURNITURE IS PROHIBITED.</p> <p>MAGLIN SITE FURNITURE WWW.MAGLIN.COM TEL: 800-716-5506 FAX: 877-260-9393</p> <p>DATE: 12/14/2023 MODEL NO.: SHEET: 3 OF 3</p>		<p>MAGLIN THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAGLIN SITE FURNITURE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAGLIN SITE FURNITURE IS PROHIBITED.</p> <p>MAGLIN SITE FURNITURE WWW.MAGLIN.COM TEL: 800-716-5506 FAX: 877-260-9393</p> <p>DATE: 12/14/2023 MODEL NO.: SHEET: 3 OF 3</p>	

MODEL: OGM 1900-196746- BACKLESS C/W CENTER- ARMREST

MODEL: OGM 1900-196748- BACKLESS W/ NO ARMREST

<p>OGM1900-B1-SS6-WFB</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>OGM1900-MS1</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>
<p>OGM1900-BCA1</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>ELEV. VIEW: BACKED W/ BCA1 AND MS1</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>
<p>MAGLIN THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAGLIN SITE FURNITURE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAGLIN SITE FURNITURE IS PROHIBITED.</p> <p>MAGLIN SITE FURNITURE WWW.MAGLIN.COM TEL: 800-716-5506 FAX: 877-260-9393</p> <p>DATE: 12/14/2023 MODEL NO.: SHEET: 3 OF 3</p>	

<p>OGM1900-B1-SS6-WFB</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>OGM1900-MS4</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>
<p>OGM1900-BCA1</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>ELEV. VIEW: BACKED W/ BCA1 AND MS4</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>
<p>MAGLIN THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAGLIN SITE FURNITURE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAGLIN SITE FURNITURE IS PROHIBITED.</p> <p>MAGLIN SITE FURNITURE WWW.MAGLIN.COM TEL: 800-716-5506 FAX: 877-260-9393</p> <p>DATE: 12/14/2023 MODEL NO.: SHEET: 3 OF 3</p>	

MODEL: OGM 1900-196749- WITH RAISED BACK AND CENTER ARMREST

<p>OGM1900-B1-SS6-WFB</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	<p>OGM1900-MS4</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>
<p>ELEV. VIEW: BACKED W/ MS4</p> <p>NAME DIMENSION A N/A B N/A R-1 N/A R-2 N/A</p>	
<p>MAGLIN THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAGLIN SITE FURNITURE. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAGLIN SITE FURNITURE IS PROHIBITED.</p> <p>MAGLIN SITE FURNITURE WWW.MAGLIN.COM TEL: 800-716-5506 FAX: 877-260-9393</p> <p>DATE: 12/14/2023 MODEL NO.: SHEET: 3 OF 3</p>	

MODEL: OGM 1900-196750- WITH RAISED BACK AND NO ARM REST

- NOTES:
 - "STANDARD" COLOUR TO BE MANUFACTURERS STANDARD "GUNMETAL" COLOUR
 - "CUSTOM" COLOUR TO BE CUSTOM RAL COLOUR TO BE CONFIRMED- SLATS TO BE THERMALLY MODIFIED ASH WOOD.
 - EMBED ANCHORS TO DEPTH REQUIRED TO ENSURE NO MORE THAN 2 THREADS EXPOSED ABOVE NUT.
 - CUTTING ANCHOR IS NOT ACCEPTABLE

- NOTES:
 - INSTALL VARIOUS CONFIGURATIONS AS /WHERE NOTED ON PLANS.
 - FRAME TO BE MANUFACTURERS STANDARD "GUNMETAL" COLOUR.
 - SLATS TO BE THERMALLY MODIFIED ASH WOOD.

1 DECORATIVE PARK BENCH
WITH SEAT BACK AND 1 MIDDLE & 1 END ARMRESTS

2 SEAT WALL TOPPER
4 CONFIGURATIONS WITH VARYING SEAT BACKS AND ARMRESTS

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**CENTENNIAL PARK
FIFA - EAST VSTS**
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3



VFA Project: 2309

L10

LANDSCAPE
DETAILS 3

and date (06/24/19) 16650

MBR-0350-00002
Legacy # MBR350-5-S



300 SERIES

Sustainability Facts

Unit Size	One (1) MBR-0350-00002 Bike Rack
Carbon footprint (GWP)	212 kg CO2-Eq
Total energy use (TUE)	3330 MJ-Eq
Water use (WUP)	1.61 m3 water
Material recyclability	100%

LEED v4.1 Credits

Type III Environmental Product Declaration

Material Inventory

Low VOC Finishes

Free of Red List substances

*Full EPD can be referenced for more information: <https://www.maglin.com/epd>

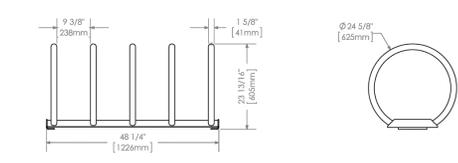
DESCRIPTION: 300 Series - 350 Bike Rack; H.S. Steel Tube, Formed Steel and Solid Steel Angle, Surface Mount, 5 Loops, 4 Bike Configuration

FINISH: All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.

INSTALLATION: The bike rack is delivered pre-assembled. It is available with a surface mount installation.

TO SPECIFY: Select MBR-0350-00002
Choose:
- Powdercoat Color

HEIGHT: 23.81" (60.48cm) LENGTH: 48.25" (122.56cm) DIAMETER: 24.63" (62.56cm) WEIGHT: 79.8lbs (35.65kg)

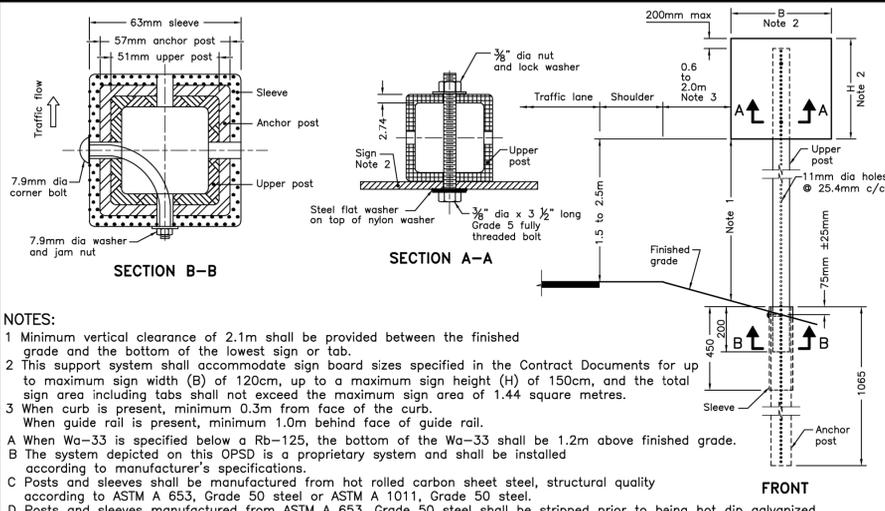


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1 416 292 8933
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sales@maglin.com

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Details and specifications may vary due to continuing improvements of our products.

- NOTES:**
- FRAME TO BE MANUFACTURERS STANDARD "GUN METAL" COLOUR.
 - EMBED ANCHORS TO DEPTH REQUIRED TO ENSURE NO MORE THAN 2 THREADS EXPOSED ABOVE NUT.
 - WHERE RACKS ARE POSITIONED NEXT TO EACH OTHER, SPACE SUCH THAT DISTANCE BETWEEN END RINGS MATCHES DISTANCE BETWEEN RINGS WITHIN UNIT.



SECTION B-B

SECTION A-A

FRONT

NOTES:

- Minimum vertical clearance of 2.1m shall be provided between the finished grade and the bottom of the lowest sign or tab.
- This support system shall accommodate sign board sizes specified in the Contract Documents for up to maximum sign width (B) of 120cm, up to a maximum sign height (H) of 150cm, and the total sign area including tabs shall not exceed the maximum sign area of 1.44 square metres.
- When curb is present, minimum 0.3m from face of the curb. When guide rail is present, minimum 1.0m behind face of guide rail.

A When Wa-33 is specified below a Rb-125, the bottom of the Wa-33 shall be 1.2m above finished grade.

B The system depicted on this OPSD is a proprietary system and shall be installed according to manufacturer's specifications.

C Posts and sleeves shall be manufactured from hot rolled carbon sheet steel, structural quality according to ASTM A 653, Grade 50 steel or ASTM A 1011, Grade 50 steel.

D Posts and sleeves manufactured from ASTM A 653, Grade 50 steel shall be stripped prior to being hot dip galvanized.

E Posts and sleeves shall be hot dip galvanized after fabrication. Excess zinc shall be removed to ensure telescoping of posts and sleeves.

F System configuration meets NCHRP Report 350 TL-3.

G All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Apr 2019	Rev 1	
SMALL SIGN SUPPORT SYSTEM SQR-LOC PERFORATED STEEL SQUARE POST SYSTEM INSTALLATION-SINGLE POST ASSEMBLY	OPSD 989.110		

- NOTES:**
- CONFIRM LOCATION IN THE FIELD.
 - INSTALL OWNER-SUPPLIED SIGNS AS SPECIFIED, UP TO 2 PER POST LOCATION.

1 BICYCLE RACK

2 WASTE BIN POST [BINS BY OTHERS]

MTB-0400-00024
Legacy #MLPT400-S-W

400 SERIES



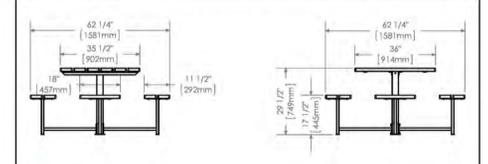
MATERIALS: The frame is H.S. steel tube and flat bar. Table top and seats manufactured using top wood-grain veneer - see notes

FINISH: All steel components are protected with E-Coat rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces. Wood seats are finished with penetrating sealers.

INSTALLATION: The table is delivered pre-assembled or knocked down.

TO SPECIFY: Select MTB-0400-000024
Choose:
- Powdercoat Color

TABLE HEIGHT: 28.5" (74.9cm) TOTAL WIDTH: 62.25" (158.1cm) SEAT HEIGHT: 17.5" (44.5cm) WEIGHT: 231.34lbs (104.9kg)



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- NOTES:**
- FRAME TO BE AS NOTED ON PLAN.
 - "STANDARD" COLOUR TO BE MANUFACTURERS STANDARD "GUNMETAL" COLOUR
 - "CUSTOM" COLOUR TO BE CUSTOM RAL COLOUR TO BE CONFIRMED
 - WHERE 3 SEAT UNIT IS CALLED OUT, REMOVE ONE SEAT AND FRAME AND TURN OVER TO PARKS STAFF.
 - EMBED ANCHORS TO DEPTH REQUIRED TO ENSURE NO MORE THAN 2 THREADS EXPOSED ABOVE NUT. CUTTING OF ANCHORS IS NOT ACCEPTABLE

3 DECORATIVE CLUSTER SEATING UNIT

MBO-0500-00001
Héritage # MTB500-B1

500 SERIES



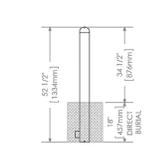
MATERIALS: The bollard is constructed of H.S. steel tube.

FINISH: The bollard is protected with E-Coat rust proofing and finished with the Maglin Powdercoat System.

INSTALLATION: Base Type - B1 bollard is supplied with additional 18" of tubing to be set in concrete. Bollard is permanently fixed in place.

TO SPECIFY: Select MBO-0500-00001
Choose:
- Powdercoat Color

HEIGHT: 34.5" (87.6cm) DIAMETER: 4.5" (11.4cm) WEIGHT: 47.44lbs (21.52kg)



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- STANDARD**
- NOTES:**
- BOLLARD TO BE MANUFACTURERS STANDARD "GUN METAL" COLOUR.

4 BOLLARD

03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA	JC
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01	2024-11-08	PRELIMINARY	JC	--
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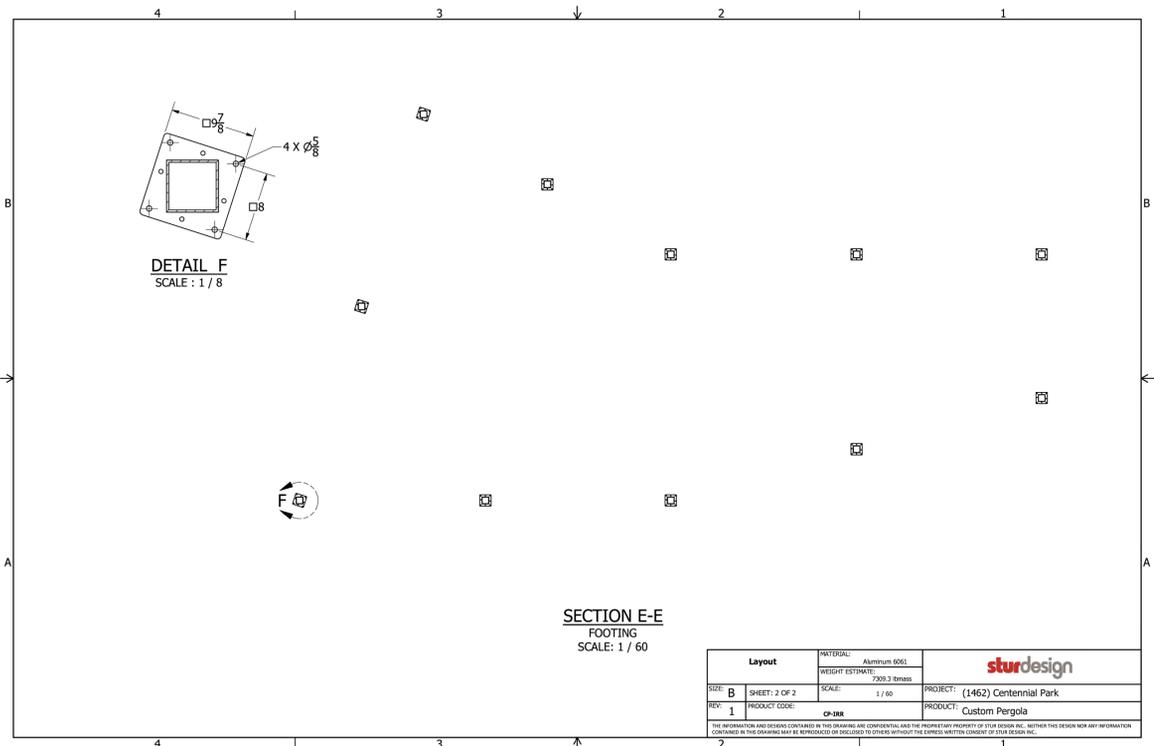
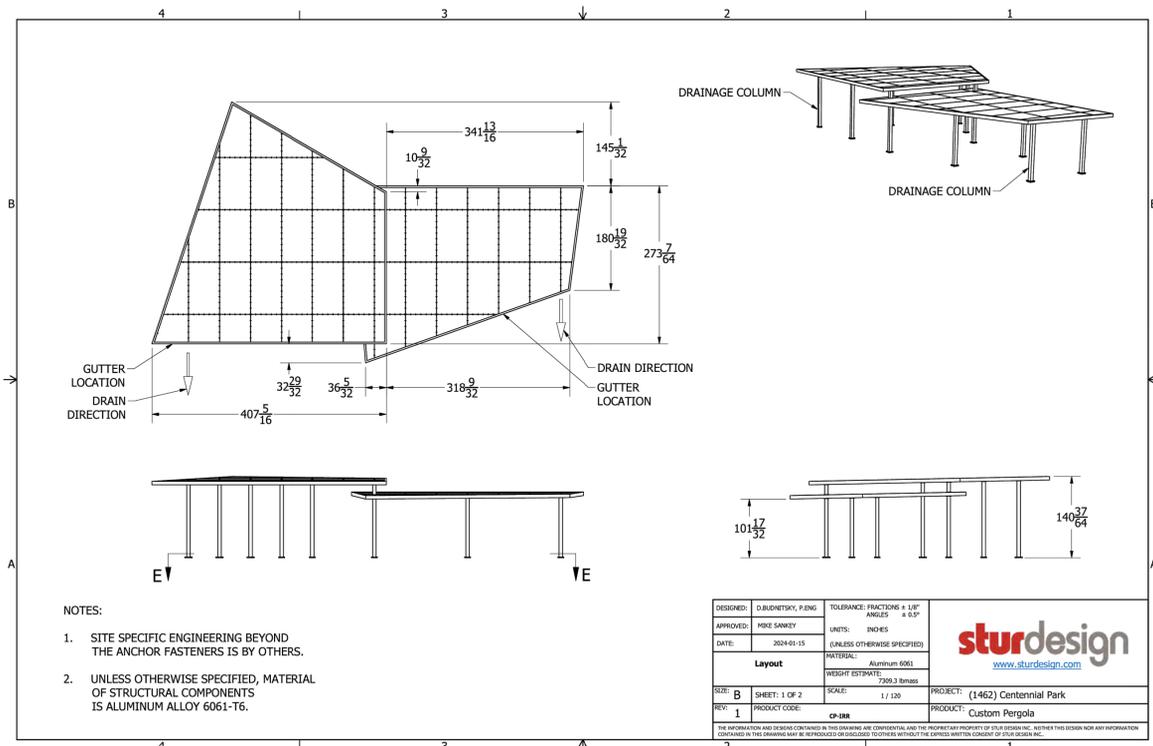


VFA Project: 2309

L11

LANDSCAPE DETAILS 4

and date (06/24 13:16:50)



1 SHADE SHELTER "A"
CUSTOM DESIGN

03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA/JC
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FIFA - EAST VSTS**
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3

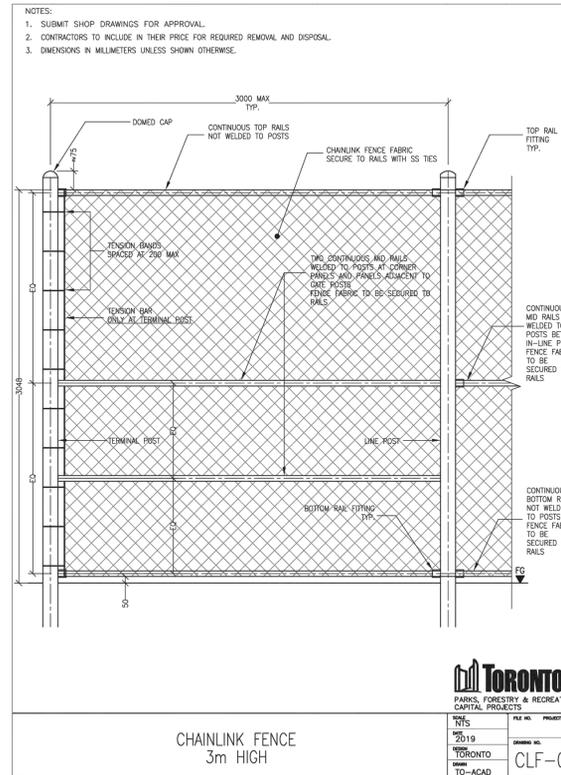


VFA Project: 2309

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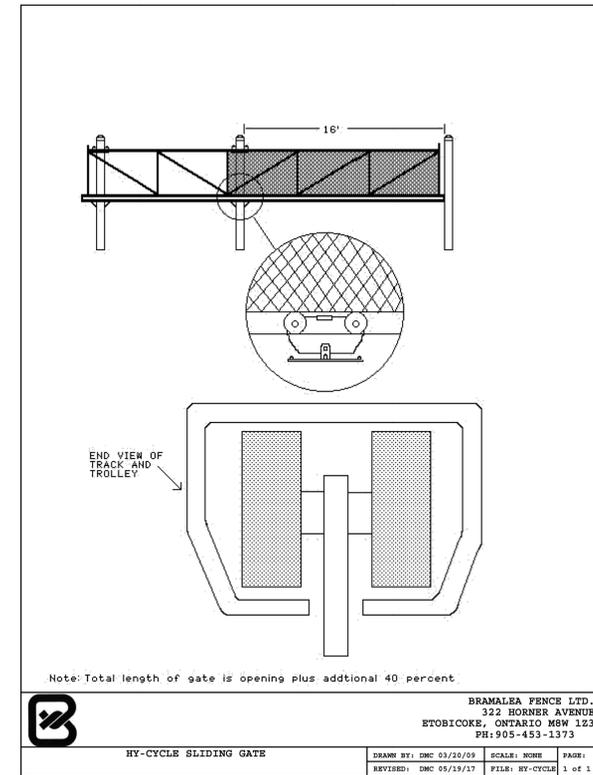
LANDSCAPE
DETAILS 5

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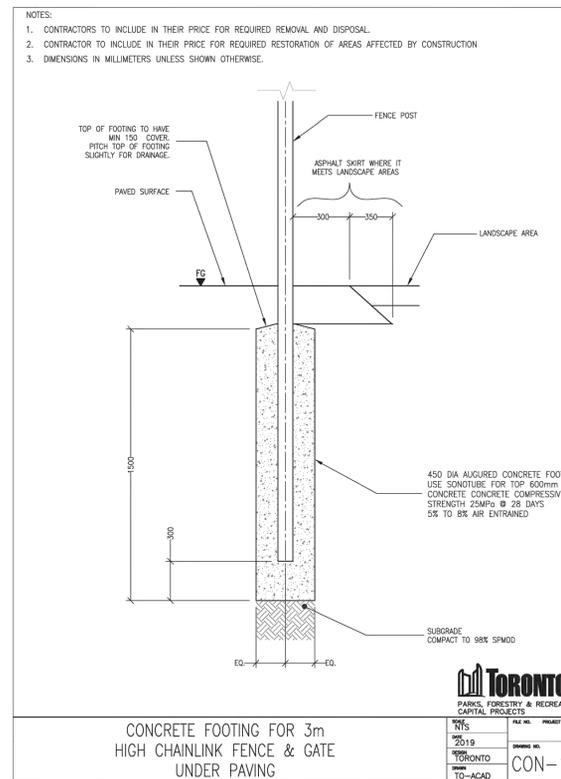
NOTES:
 - HEIGHT TO BE 2.4m AS SHOWN ON PLAN. ALL OTHER DETAILS UNCHANGED.

1 CHAINLINK FENCE- 2.4m HT. SIMILAR TO DETAIL CLF-03



NOTES:
 - GATE OPENING DIMENSION TO BE AS NOTED ON PLANS.
 - GATE MATERIALS TO MATCH ADJACENT FENCING FOR FINISHES AND MESH SIZE.
 - COMPLETE, DETAILED SHOP DRAWINGS ARE REQUIRED.

2 CHAINLINK FENCE ROLLING GATE-2.4m HIGH



NOTES:
 - HEIGHT TO BE 2.4m AS SHOWN ON PLAN. ALL OTHER DETAILS UNCHANGED.

4 CONCRETE FOOTING FOR 2.4m HIGH CHAINLINK FENCE AND GATE UNDER PAVING DETAIL CON-14



5 CHAINLINK FENCE AND GATES NOTES DETAIL CLF-06

03	2024-11-18	ISSUED FOR PERMIT AND TENDER	EKA/JC
02	2024-11-13	PRELIMINARY	EKA/JC
01	2024-11-08	PRELIMINARY	JC
NO	YYYY-MM-DD	REVISION	DN/CH



CENTENNIAL PARK FIFA - EAST VSTS
 250 Centennial Park Road,
 Toronto, Ontario, M9C 5N3

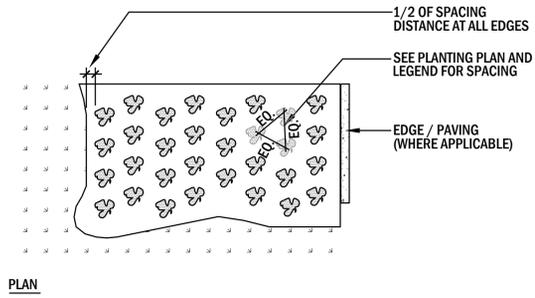


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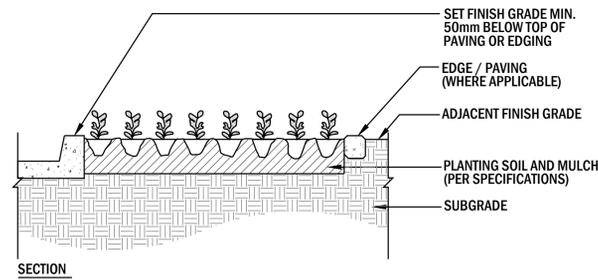
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LANDSCAPE DETAILS 6

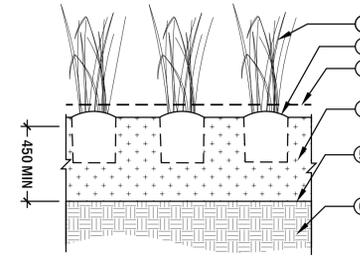
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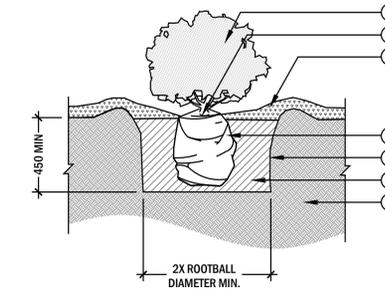
PLAN



SECTION



- 1 PERENNIAL
- 2 PLANT CROWN TO SIT SLIGHTLY ABOVE FINISH GRADE
- 3 75mm SETTLED DEPTH SHREDDED PINE BARK MULCH - KEEP 30mm AWAY FROM STEMS
- 4 PLANTING SOIL AS PER SPECIFICATIONS TO 450mm DEPTH MIN
- 5 SCARIFY PIT BOTTOM AND SIDES TO A DEPTH OF 15mm PRIOR TO PLANTING
- 6 EXISTING UNDISTURBED SUB-GRADE



- 1 SHRUB
- 2 SHRUB CROWN TO SIT 25mm ABOVE FINISH GRADE
- 3 75mm SETTLED DEPTH OF MULCH SAUCER - SHAPE SOIL BELOW TO MATCH SAUCER PROFILE
- 4 ROOT BALL CUT AND REMOVE TOP 1/3 OF BURLAP OR REMOVE ENTIRE PLASTIC OR FIBRE POT, AS APPLICABLE
- 5 SCARIFY SIDES AND BOTTOM OF PIT AS PER SPECIFICATIONS PRIOR TO PLANTING
- 6 PLANTING SOIL AS PER SPECIFICATIONS TO 450mm DEPTH MIN.
- 7 UNDISTURBED SUBGRADE

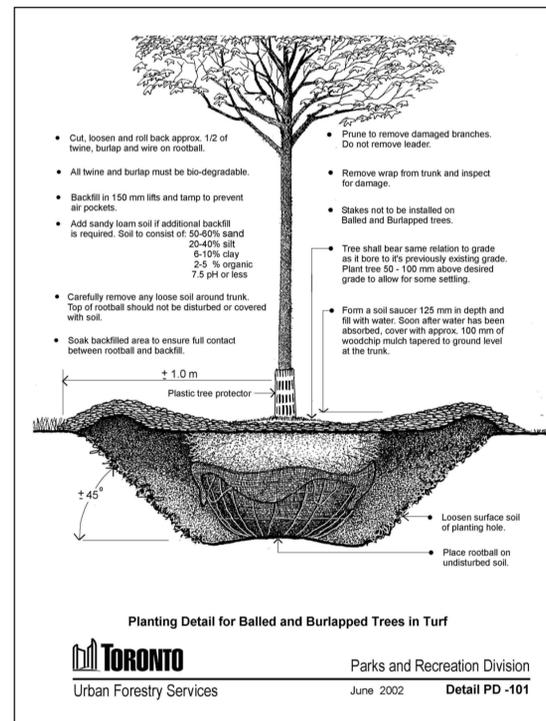
NOTE:
- THIS DETAIL DOES NOT REPRESENT ANY PARTICULAR SPECIES.
- ALL TWINE AND BURLAP SHALL BE BIO-DEGRADABLE.
- BACKFILL IN 150mm LIFTS AND TAMP TO ELIMINATE AIR POCKETS.
- CAREFULLY REMOVE ANY LOOSE SOIL AROUND COLLAR. TOP OF ROOT BALL SHOULD NOT BE DISTURBED OR COVERED WITH SOIL.
- SOAK BACKFILLED AREA TO ENSURE FULL CONTACT BETWEEN ROOT BALL AND BACKFILL.
- FILL SOIL SAUCER WITH WATER. SOON AFTER WATER HAS BEEN ABSORBED, COVER WITH SPECIFIED MULCH, TAPERED TO GROUND LEVEL AT THE TRUNK.
- PRUNE TO REMOVE ANY DAMAGED OR OBJECTIONABLE BRANCHES IN ACCORDANCE WITH ACCEPTED HORTICULTURAL PRACTICE. DO NOT PRUNE LEADERS.
- REMOVE ALL PLANT TAGS FROM PLANT MATERIALS AFTER ACCEPTANCE.

1 PERENNIAL PLANTING/ SPACING

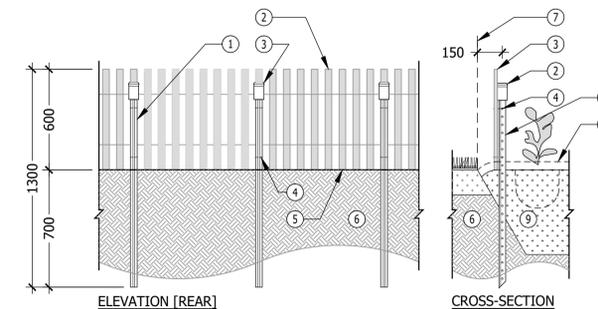
SCALE = 1:10 (METRIC)

2 SHRUB PLANTING TYPICAL

SCALE = 1:20 (METRIC)



3 TREE PLANTING CITY OF TORONTO DETAIL PD-101



- 1 1200 LONG T-BAR FENCE POST; LIGHT-DUTY (GREEN) WITH PERFORATIONS; ENSURE POST IS FIRMLY BEDED INTO SUB-GRADE BELOW PLANTING SOIL OR TOPSOIL
- 2 "STAKESAFE" STAKE PROTECTOR
- 3 600 HIGH WOOD SLAT SNOW FENCE; UNTREATED CEDAR WOOD; MIN. 2 ROWS OF 13 GAUGE WIRE
- 4 FASTEN FENCING TIGHTLY TO POST WITH NYLON CABLE TIES (BLACK, UV STABLE, 50 LB STRENGTH); FEED TIE THROUGH PERFORATIONS; MIN. 2 PER POST; CUT OFF EXCESS
- 5 BOTTOM OF SNOW FENCE TO SIT DIRECTLY ON FINISH GRADE OF FIRM SURFACE [ie SOIL] WITH NO GAP
- 6 EXISTING SUBGRADE
- 7 EDGE OF LAWN/PLANTING BED AS ILLUSTRATED ON PLAN [OR HARDSCAPE EDGE IF APPLICABLE]
- 8 MULCH LAYER
- 9 PLANTING BED

NOTES:
-COORDINATE WITH IRRIGATION AND SUB-DRAINAGE INSTALLATION TO ENSURE NO CONFLICTS.

4 PLANTING AREA PROTECTION FENCE NON-PERMANENT

SCALE = 1:20 (METRIC)

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NO	YYYY-MM-DD	REVISION	DN	CH



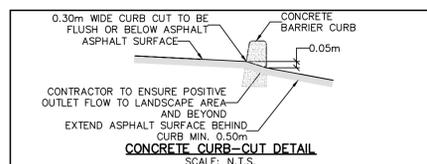
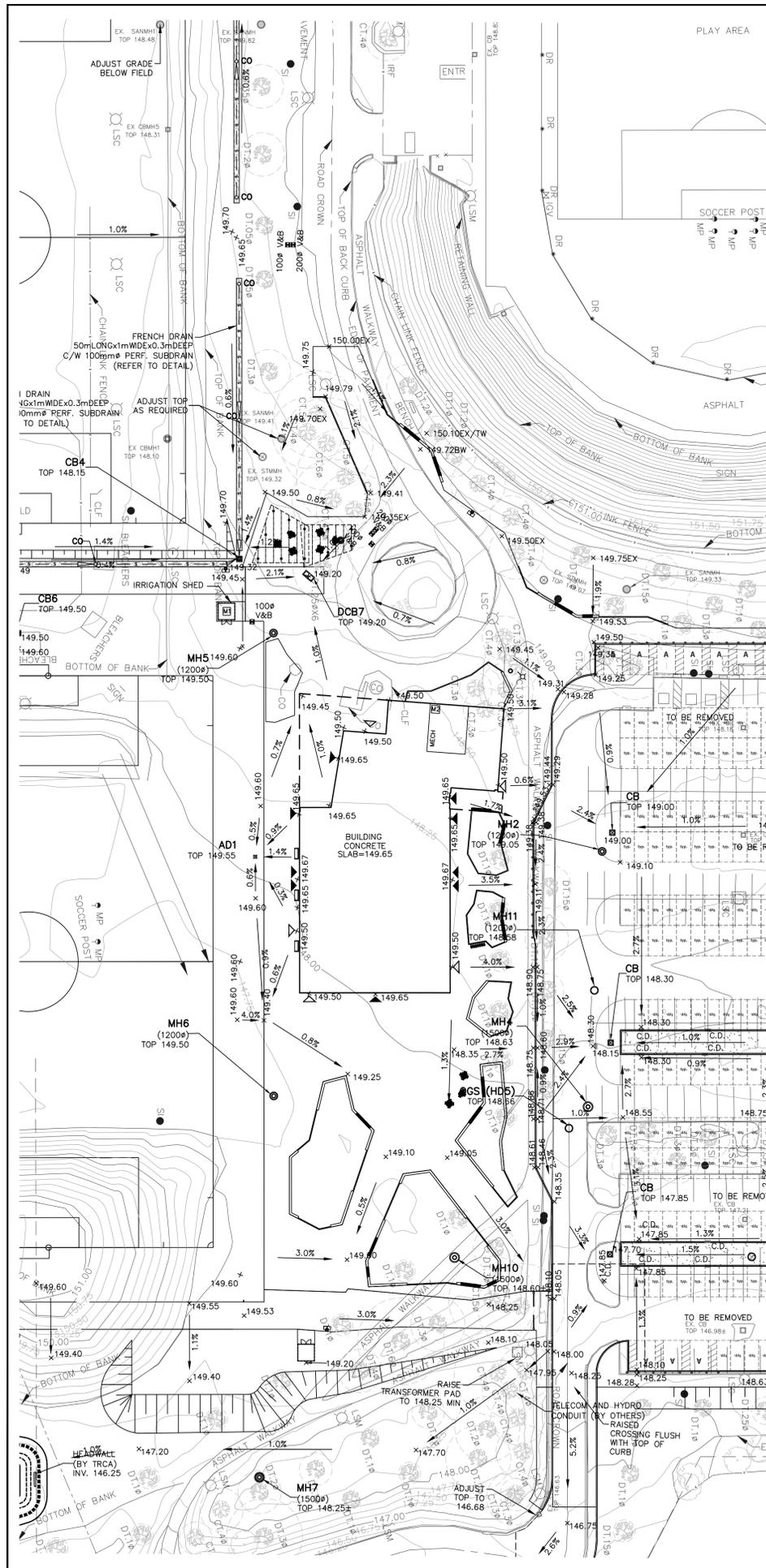
CENTENNIAL PARK FIFA - EAST VSTS
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VFA Project: 2309

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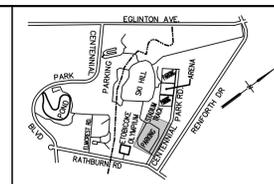
LANDSCAPE
DETAILS 7



- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN METRES AND DIAMETERS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 2. THE LATEST CITY OF TORONTO STANDARD DRAWINGS, GENERAL CONDITIONS & SPECIFICATIONS CONSTITUTE PART OF THE DRAWINGS.
 3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 'OCCUPATIONAL HEALTH AND SAFETY ACT'; THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
 4. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION, PERMANENT SIGNS AND LANE MARKINGS SHALL BE IN ACCORDANCE WITH ONTARIO TRAFFIC MANUAL FOR TEMPORARY CONDITIONS AND MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 5. ALL UNDERGROUND SERVICE CONNECTIONS AND TRENCHES WITHIN PAVED PORTION OF AN EXISTING ROAD ARE TO BE BACKFILLED WITH UN-SHRINKABLE FILL MATERIAL.
 6. ALTERNATIVE CONSTRUCTION MATERIALS MAY BE ACCEPTABLE, PROVIDED THAT APPROVAL HAS BEEN OBTAINED FROM CITY ENGINEER.

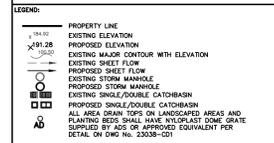
- GRADING & ROAD CONSTRUCTION:**
1. BACKFILL LIFT THICKNESS SHALL BE NO GREATER THAN 300mm.
 2. PRIOR TO THE PLACEMENT OF ANY GRANULAR MATERIALS, THE SOIL CONSULTANT MUST ISSUE A COMPACTION CERTIFICATE AND OBTAIN APPROVAL FROM THE CITY.
 3. MUNICIPAL CURB & GUTTER SHALL BE AS PER CITY OF TORONTO T-600.05-1 AND T-600.07-1 WITH SUBDRAINS AS PER T-216.02-8.
 4. MUNICIPAL CURB & SIDEWALK SHALL BE CONSTRUCTED AS PER CITY OF TORONTO T-310.010-4 AND T-310.050-1
 5. ALL ASPHALT PAVEMENT WITHIN THE PARKING, DRIVE AISLES AND SITE ENTRANCES SHALL BE HEAVY DUTY IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AS PROVIDED BY THE CONTRACT ADMINISTRATOR.
 6. UNLESS OTHERWISE SPECIFIED BY GEOTECHNICAL CONSULTANT, SUB-GRADE, TRENCH BACKFILL AND GRANULAR SUB-BASE MATERIAL IS TO BE COMPACTED TO 98% SPMD. ASPHALT IS TO BE COMPACTED WHILE GRANULAR BASE IS TO BE COMPACTED TO 100% SPMD AND ASPHALT PAVEMENT IS TO BE COMPACTED IN ACCORDANCE WITH OPSS 310.
 7. WHERE NEW ASPHALT MATCHES EXISTING ASPHALT, EXISTING ASPHALT SHALL BE GRINDED A MINIMUM OF 300mm WIDE AND 40mm DEEP FOR KEYING. HOT RUBBER SEALING COMPOUND IN ACCORDANCE WITH OPSS 1212 AND EMULSIFIED ASPHALT AT ALL JOINTS WILL BE APPLIED.
 8. BOULEVARDS RESTORATION SHALL BE A MINIMUM OF 150mm TOPSOIL AND NO. 1 GRADE NURSERY SOD.
 9. ALL FIRE ACCESS ROUTES SHALL BE CONSTRUCTED OF HARD SURFACE MATERIAL AND DESIGNED TO SUPPORT A LOAD OF NOT LESS THAN 11 363 KG. PER AXLE AND HAVE A CHANGE IN GRADIENT OF NOT MORE THAN 1 IN 12.5 OVER A MINIMUM DISTANCE OF 15M.
 10. THE CONTRACTOR SHALL CHECK AND VERIFY ALL GRADES AND DRAINAGE SYSTEMS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 11. ALL SURFACE DRAINAGE WILL BE SELF-CONTAINED, COLLECTED AND DISCHARGED AT A LOCATION TO BE APPROVED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
 12. GRADES AT SLOPES AT PROPERTY LINES AND WITHIN THE SITE TO BE MET WITHIN 3:1 (33% MAXIMUM).
 13. DRIVEWAY ENTRANCE SHALL BE TO TORONTO STD. T-310.050-1
 14. WHERE MUNICIPAL SIDEWALKS AND CURBS OCCUR AT ENTRANCES THEY SHALL BE CONTINUOUS THROUGH THE DRIVEWAYS. THE SIDEWALK SHALL REMAIN AT ITS ORIGINAL GRADE AND A CURB DEPRESSION WILL BE PROVIDED AT EACH ENTRANCE. ELEVATIONS OF DRIVEWAYS SHALL BE COMPATIBLE WITH EXISTING AND FUTURE SIDEWALK GRADES.
 15. SIDEWALK TO BE 32MPA CONCRETE WITH 5 TO 8% AIR ENTRAINMENT WITH MIN. OF 150MM GRANULAR 'A' BEDDING COMPACTED TO 100% SPMD.

- GRADING NOTES:**
1. GRADES ARE TO MATCH THE ADJACENT PROPERTIES AT THE LIMITS OF THE SITE
 2. DRAINAGE SWALES TO BE MINIMUM DEPTH OF 0.15m TO A MAXIMUM DEPTH OF 0.30m. SWALE GRADES SHALL BE A MINIMUM OF 2.0% AND A MAXIMUM OF 5.0% UNLESS OTHERWISE NOTED.
 3. MINIMUM PAVEMENT GRADE OF 0.70% TO A MAXIMUM GRADE OF 8.0%
 4. SLOPES IN LANDSCAPED AREAS AND ON BERMS SHALL NOT EXCEED 3:1.
 5. THE MAXIMUM ALLOWABLE HEIGHT OF A BERM WITHOUT A BREAK IN GRADE IS 1.2m. LANDSCAPE BERMS SHALL NOT ENCRUCH ONTO THE BOULEVARD OR ADJACENT PROPERTIES UNLESS WRITTEN AUTHORIZATION FROM THE ADJACENT LANDOWNER(S) IS PROVIDED.
 6. ROOF DOWNSPOUT LOCATIONS AND DIRECTION OF DRAINAGE ARE TO BE IDENTIFIED.
 7. FOOTINGS TO BE FOUND IN UNDISTURBED NATIVE SOIL OR, IF LOCATED IN ENGINEERED FILL, FOUNDATIONS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF, AND CERTIFIED IN THE FIELD BY, A GEOTECHNICAL ENGINEER.
 8. A MINIMUM 1.50m FLAT AREA SHALL BE PROVIDED AT THE BOTTOM OF SLOPES LOCATED ADJACENT TO FENCES.
 9. A MINIMUM 150mm TOPSOIL SHALL BE PROVIDED IN ALL LANDSCAPED AREAS.
 10. ALL GRADING MUST COMPLY WITH THE CITY OF TORONTO AND APPROPRIATE CONSERVATION AUTHORITY AND THERE STANDARDS.



- KEY PLAN (N.T.S.)**
- NOTES:**
1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 2. SURVEY COMPLETED BY: [Name]
 3. DO NOT SCALE DRAWINGS.
 4. REPORT ALL ERRORS, OMISSIONS OR DISCREPANCIES TO URBAN WATERSHED GROUP LIMITED IMMEDIATELY UPON DISCOVERY.
 5. USE ONLY LATEST REVISIONS OF THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".
 6. THE DRAWINGS ARE THE PROPERTY OF URBAN WATERSHED GROUP LIMITED AND MUST BE RETURNED ON COMPLETION OF THE PROJECT.
 7. URBAN WATERSHED GROUP SHALL NOT BE HELD RESPONSIBLE FOR ANY DAMAGES WHICH MAY ARISE FROM THE USE OF THIS DRAWING FOR OTHER THAN THE INTENDED PURPOSES PRIOR TO FINAL APPROVAL AND PRIOR TO PERMITS BEING GRANTED FROM ALL AUTHORITIES HAVING JURISDICTION.

- BENCHMARK NOTE:**
- ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARKS:
1. CITY OF TORONTO BENCHMARK NO. 060003 (1202080000), HAVING AN ELEVATION 150.408 METRES BENCHMARK LOCATED AT CENTENNIAL PARK STONE/BRICK WAREHOUSE BUILDING SOUTH AND WEST OF THE SKI HILL, EAST OF CENTENNIAL PARK BUILDINGS AND EAST OF THE PARK BASKETBALL FACILITIES. BENCHMARK IN SOUTH FACE OF BUILDING 3.2 METRES WEST OF THE SOUTH/EAST CORNER AND 0.16 METRES ABOVE GROUND LEVEL.
 2. CITY OF TORONTO BENCHMARK NO. E1143 (1251967143), HAVING AN ELEVATION 151.50 METRES BENCHMARK LOCATED AT 450 METRES SOUTH OF EGLINTON AVENUE, 0.16 METRES ABOVE GROUND LEVEL.

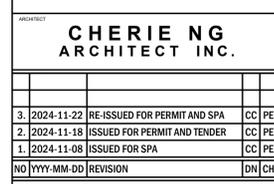


- CONTRACTORS NOTES AND PRIOR TO CONSTRUCTION:**
1. INVESTIGATE ALL EXISTING SERVICES, WATERMANS, UTILITIES AND SERVICES AT POINTS OF CROSSING TO THE PROPERTY OF ALL UTILITIES. THEIR QUOTATION ACCORDINGLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE RELOCATION OF ALL UTILITIES OF THE SITE INCLUDING, BUT NOT LIMITED TO, THE CONSTRUCTION OF THE SITE SERVICES. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ARCHITECT AND URBAN WATERSHED GROUP OF ANY DISCREPANCIES FOUND ON THIS DRAWING.
 2. AT THE TIME OF TENDER THE CONTRACTOR AND THEIR SUPPLIERS SHALL ALLOW FOR THE DESIGN AND INCORPORATION OF COUNTER BALANCE MEASURES FOR ALL SUBSURFACE SERVING STRUCTURE.
 3. CONTRACTOR SHALL SECURE A ROAD OCCUPANCY PERMIT FROM THE MUNICIPAL WORKS DEPARTMENT PRIOR TO ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY.
 4. UPON COMPLETION OF THE SEWER INSTALLATION THE CONTRACTOR SHALL COMPLETE TESTING AS REQUIRED WHICH WILL INCLUDE, BUT NOT BE LIMITED TO, CCTV, DEFLECTION, INFILTRATION / EXFILTRATION AND AIR TESTING. THE WATERMANS SHALL ALSO BE TESTED FOR CONTAMINANTS. ALL TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL AND ONTARIO REGULATIONS. TESTING RESULTS SHALL BE FORWARDED TO THE ARCHITECT AND URBAN WATERSHED GROUP IMMEDIATELY FOLLOWING THE TEST. THE CONTRACTOR SHALL ALSO SUBMIT MEASUREMENTS FOLLOWING CONSTRUCTION OF EACH STAGE OF WORK.
 5. ALL EARTH MOVING OPERATIONS SHALL BE COMPLETED IN ACCORDANCE WITH OREG. 406.176 REGARDING THE MANAGEMENT OF EXCESS SOIL. FILL MATERIAL SHALL BE ORIGINALLY TESTED TO DETERMINE SUITABILITY TO DRAINAGE STANDARDS PER PERMITTED USE / DESTINATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY DISPOSE OF UNSUITABLE OR CONTAMINATED MATERIALS.

ARCHITECT:

CHERIE NG ARCHITECT INC.

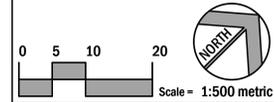
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2	2024-11-18	ISSUED FOR PERMIT AND TENDER	CC	PE
1	2024-11-08	ISSUED FOR SPA	CC	PE
NO	YYYY-MM-DD	REVISION	DN	CH



Urban Watershed Group Ltd.

1580 ASPORT ROAD, SUITE 504
GALDENHURST, ONTARIO, L7C 1H9
PHONE: (905) 884-1481 FAX: (905) 884-1481
www.urbanwatershed.com
urbanwater@urbanwatershed.com

FIFA - EAST VSTS - CENTENNIAL PARK
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3

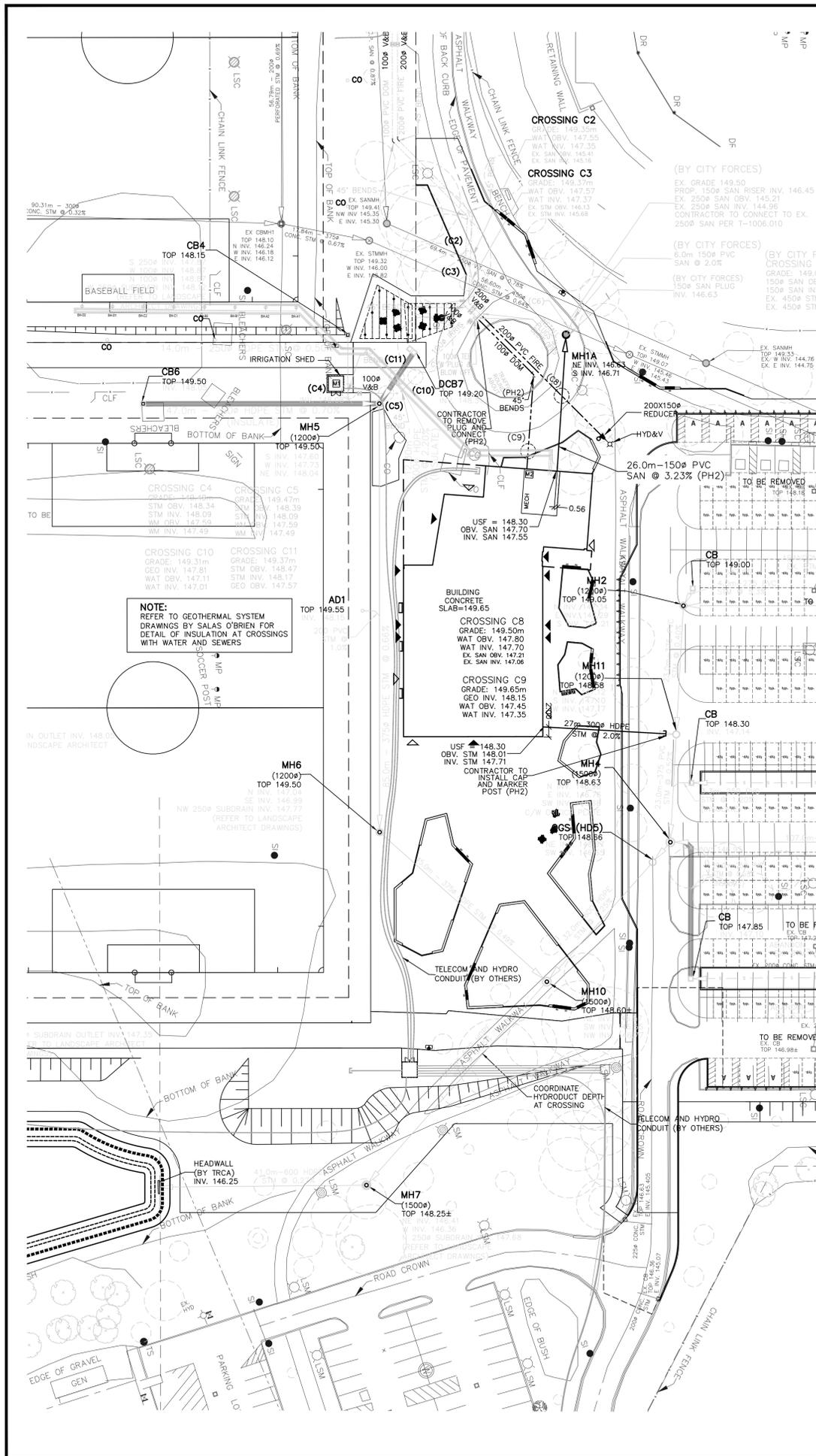


PROJECT No: 23038

CGR-1

GRADING PLAN - EAST VSTS

SHEET: 2 OF 8



GENERAL NOTES:

1. ALL DIMENSIONS ARE IN METRES AND ALL DIAMETERS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. THE LATEST CITY OF TORONTO STANDARD DRAWINGS, GENERAL CONDITIONS & SPECIFICATIONS CONSTITUTE PART OF THE DRAWINGS.
3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT; THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
4. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION, PERMANENT SIGNS AND LANE MARKINGS SHALL BE IN ACCORDANCE WITH ONTARIO TRAFFIC MANUAL FOR TEMPORARY CONDITIONS AND MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
5. ALL UNDERGROUND SERVICE CONNECTIONS AND TRENCHES WITHIN PAVED PORTION OF AN EXISTING ROAD ARE TO BE BACKFILLED WITH UN-SHRINKABLE FILL MATERIAL.
6. ALTERNATIVE CONSTRUCTION MATERIALS MAY BE ACCEPTABLE, PROVIDED THAT APPROVAL HAS BEEN OBTAINED FROM CITY ENGINEER.

LOCATES AND LIABILITY:

1. THE CONTRACTOR SHALL RECTIFY ALL DISTURBED AREAS TO THE ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE CITY.
2. THE LOCATION OF ALL UNDER/ABOVE GROUND UTILITIES AND STRUCTURES ARE APPROXIMATE ONLY, AND WHERE SHOWN ON THE DRAWING(S) THE ACCURACY OF THE LOCATION OF SUCH UTILITIES ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES BY CONSULTING THE APPROPRIATE AUTHORITIES OR UTILITY COMPANIES CONCERNED. THE CONTRACTORS SHALL PROVE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE OR RESTORATION TO SAME.
3. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY CONFLICTS WITH EXISTING SERVICES.
4. AT THE TIME OF TENDER, THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND INVESTIGATE ALL EXISTING SERVICES, WATERMANS, UTILITIES AND SEWERS AT POINTS OF CROSSING TO THEIR SATISFACTION AND MODIFY THEIR PROPOSAL ACCORDINGLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE ADJUSTMENT OF ALL UTILITIES, SEWERS AND WATERMANS AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE SITE SERVING.

WATERMAIN:

1. ALL WATERMAIN SERVICE CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF TORONTO T-1104.01, T-1104.02-1, T-1104.02-2, T-1105.02-1, AND T-1105.02-2.
2. TRACER WIRE SHALL CONFORM TO CITY OF TORONTO & CONSTRUCTION SPECIFICATION FOR WATERMAIN AND WATER SERVICE TRACER WIRE TS 7.40.07.01, ITEMS TO IV INCLUSIVE.
3. PROVISIONS FOR WATERMAIN FLUSHING PRIOR TO TESTING MUST BE PROVIDED WITH AT LEAST A 50MM (2") Ø OUTLET ON 100MM (4") Ø AND LARGER LINES AS PER CITY OF TORONTO T-1104.03-1. ALL PROPOSED WATERMANS AND APPURTENANCES SHALL BE DISINFECTED AS PER STANDARD SPECIFICATION TS 7.30. AFTER PRESSURE TESTING AND CHLORINATION OF THE PROPOSED WATERMAIN, CUT THE FITTING INTO EXISTING WATERMAIN AND MAKE CONNECTION. ISOLATION VALVE TO BE OPENED, EXTENSION STIM REMOVED, AND VALVE BURIED WITH GRANULAR FILL AS PER CITY OF TORONTO T-1104.03-1 AND T-1104.03-2.
4. WATERMANS ARE TO BE INSTALLED AT GRADES AS SHOWN ON APPROVED PLANS; COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR AS PER CITY OF TORONTO T-1104.03-1 AND T-1104.03-2.
5. UN-FLANGE SERIES 1300-C, EBBA SERIES 200PV OR ROMAC CIRIP-RING SHALL BE INSTALLED AT ALL JOINTS BETWEEN CAST IRON MECHANICAL JOINT FITTINGS, BENDS, TEES, CROSSES, VALVES AND PVC PIPE. RESTRAINTS MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. ALL TEES, BENDS, AND REDUCERS SHALL BE INSTALLED WITH THRUST BLOCKING AS PER CITY OF TORONTO T-1103.01 AND T-1103.020.
7. WATERMANS SHALL HAVE MINIMUM COVER OF 1.80m.
8. WATERMAIN MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30m (12") OVER, 0.5m (20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
9. SACRIFICIAL ANODES WILL BE INSTALLED FOR ALL METAL PIPES AND FITTINGS AS PER CITY OF TORONTO T-1106.04, T-1106.05 AND T1106.06.
10. PIPE JOINT DETECTION DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF TORONTO T-1103.01 AND T-1103.020.
11. ALL EXISTING WATER SERVICES THAT ARE TO BE ABANDONED ARE TO BE DISCONNECTED AT THE MAINLINE IN ACCORDANCE WITH CITY REQUIREMENTS.
12. ALL WATERMAIN APPURTENANCES (VALVES, FITTINGS, ETC.) SHALL CONFORM TO CITY STANDARDS.

SANITARY SEWERS:

1. 150mm to 450mm Ø SANITARY SEWER PIPES SHALL BE PVC CLASS DR-28 PIPE AND HAVE SMOOTH INTERIOR AND EXTERIOR WALLS. PIPES TO CONFORM TO OPSS 1841 MATERIAL SPECIFICATION.
2. ALL SANITARY/COMBINED SEWER PIPES LARGER THAN 450mm Ø SHALL BE COMPOSED OF REINFORCED CONCRETE AND COMPLY WITH OPSS 1820 MATERIAL SPECIFICATION.
3. RIGID PIPE BEDDING SHALL BE AS PER OPSS 802.030, 802.031, 802.032, 802.033 AND 802.034. FLEXIBLE PIPE BEDDING TO BE AS PER OPSS 802.010, 802.013 AND 802.014. SEE CITY OF TORONTO GRANULAR BEDDING DETAIL - CLASS 'B' TO BE 19mm CRLC.
4. MAINTENANCE HOLES SHALL BE SURROUNDED WITH A MINIMUM OF 1.0m COMPACTED GRANULAR BACKFILL.
5. ALL SANITARY SEWERS SHALL HAVE PREMIUM RUBBER GASKET JOINTS.
6. SANITARY MAINTENANCE HOLES TO BE AS PER CITY OF TORONTO T-701.010 AND T-701.011, AND FRAME AND COVER AS PER OPSS 401.010, TYPE 'A'.
7. TOP OF MANHOLE COVER SHALL NOT ALLOW TO EXCEED ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WITH MAXIMUM OF 3 MODULOC RINGS AS PER OPSS 704.010 WHEN TOP LIFT OF ASPHALT IS PLACED. MAXIMUM 450MM TO FIRST STEP AS PER OPSS 704.010.
8. BENCHING SHALL BE AS PER CITY OF TORONTO T-701.021.
9. 150mm SERVICE CONNECTIONS ON EXISTING SEWERS, THE SEWER FLOW MUST BE MAINTAINED AT ALL TIMES. SEWER CONNECTIONS MUST BE CONNECTED TO A SADDLE, WHERE APPLICABLE. THE CONNECTION WILL TERMINATE AT THE PROPERTY LINE AND MUST BE PROPERLY PLUGGED. THE OPENING FOR THE SADDLE ON THE MAIN SEWER MUST BE MADE BY A CORE DRILL ONLY. THE DIAMETER OF THE CORE MUST NOT EXCEED THE OUTSIDE DIAMETER OF THE SADDLE BRANCH INSERT BY 25mm. WHERE CORE DRILLING IS NOT POSSIBLE, THE CONTRACTOR MUST CONNECT TO THE MAIN SEWER BY APPROPRIATE MEANS, APPROVED BY THE CITY. SEWER CONNECTIONS MUST BE LAID ON SOLID GROUND AND MUST HAVE A MINIMUM OF 75mm OF CLASS B BEDDING.
10. FOR SERVICE CONNECTIONS ON EXISTING SEWERS, THE SEWER FLOW MUST BE MAINTAINED AT ALL TIMES. SEWER CONNECTIONS MUST BE CONNECTED TO A SADDLE, WHERE APPLICABLE. THE CONNECTION WILL TERMINATE AT THE PROPERTY LINE AND MUST BE PROPERLY PLUGGED. THE OPENING FOR THE SADDLE ON THE MAIN SEWER MUST BE MADE BY A CORE DRILL ONLY. THE DIAMETER OF THE CORE MUST NOT EXCEED THE OUTSIDE DIAMETER OF THE SADDLE BRANCH INSERT BY 25mm. WHERE CORE DRILLING IS NOT POSSIBLE, THE CONTRACTOR MUST CONNECT TO THE MAIN SEWER BY APPROPRIATE MEANS, APPROVED BY THE CITY. SEWER CONNECTIONS MUST BE LAID ON SOLID GROUND AND MUST HAVE A MINIMUM OF 75mm OF CLASS B BEDDING.
11. TOP OF MANHOLE COVER TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WITH MAXIMUM OF 3 MODULOC RINGS AS PER OPSS 704.010 WHEN TOP LIFT OF ASPHALT IS PLACED. MAXIMUM 450MM TO FIRST STEP AS PER OPSS 704.010.
12. PERFORATED C/W SOAK SUB-DRAIN TO BE INSTALLED ON ALL CATCHBASINS AND CATCHBASIN MANHOLES. SUB-DRAINS TO EXTEND A MINIMUM 5.0m UPSTREAM ON EITHER SIDE OF THE CATCHBASIN / CATCHBASIN MANHOLE. SUB-DRAIN INSTALLATION TO BE CARRIED OUT IN ACCORDANCE WITH CITY STANDARDS.

STORM SEWERS:

1. STORM SEWER PIPES SHALL BE PVC CLASS DR-28 PIPE OR ULTRA-RIB PIPE PER CSA 182.6 (320 KPA)
2. RIGID PIPE BEDDING SHALL BE AS PER OPSS 802.030, 802.031, 802.032, 802.033 AND 802.034.
3. FLEXIBLE AND RIGID PIPE BEDDING TO BE AS PER OPSS 802.010, 802.013 AND 802.014. SEE CITY OF TORONTO GRANULAR BEDDING DETAIL - CLASS 'B' TO BE 19mm CRLC.
4. ALL CATCHBASINS SHALL BE AS PER CITY OF TORONTO T-705.010 WITH GOSS TRAP, AND FRAME AND GRATE AS PER OPSS 400.070.
5. MAINTENANCE HOLES SHALL BE SURROUNDED WITH A MINIMUM OF 1.0m COMPACTED GRANULAR BACKFILL.
6. CATCHBASIN LEADS TO BE 250mmØ PVC DR-35 FOR SINGLE CATCHBASINS AND 300mmØ PVC DR-35 FOR DOUBLE CATCHBASINS UNLESS OTHERWISE NOTED.
7. ALL STORM SEWERS SHALL HAVE PREMIUM RUBBER GASKET JOINTS.
8. STORM MAINTENANCE HOLES AND CATCHBASIN MAINTENANCE HOLES TO BE CONSTRUCTED AS PER CITY OF TORONTO T-701.010, T-701.011, T-701.012-1, AND T-701.013. MAINTENANCE HOLES TO HAVE FRAME AND COVERS AS PER OPSS 401.010 TYPE 'A'.
9. BENCHING SHALL BE AS PER CITY OF TORONTO T-701.021.
10. FOR SERVICE CONNECTIONS ON EXISTING SEWERS, THE SEWER FLOW MUST BE MAINTAINED AT ALL TIMES. SEWER CONNECTIONS MUST BE CONNECTED TO THE MAIN SEWER BY MEANS OF A SADDLE, WHERE APPLICABLE. THE CONNECTION WILL TERMINATE AT THE PROPERTY LINE AND MUST BE PROPERLY PLUGGED. THE OPENING FOR THE SADDLE ON THE MAIN SEWER MUST BE MADE BY A CORE DRILL ONLY. THE DIAMETER OF THE CORE MUST NOT EXCEED THE OUTSIDE DIAMETER OF THE SADDLE BRANCH INSERT BY 25mm. WHERE CORE DRILLING IS NOT POSSIBLE, THE CONTRACTOR MUST CONNECT TO THE MAIN SEWER BY APPROPRIATE MEANS, APPROVED BY THE CITY. SEWER CONNECTIONS MUST BE LAID ON SOLID GROUND AND MUST HAVE A MINIMUM OF 75mm OF CLASS B BEDDING.
11. TOP OF MANHOLE COVER TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WITH MAXIMUM OF 3 MODULOC RINGS AS PER OPSS 704.010 WHEN TOP LIFT OF ASPHALT IS PLACED. MAXIMUM 450MM TO FIRST STEP AS PER OPSS 704.010.
12. PERFORATED C/W SOAK SUB-DRAIN TO BE INSTALLED ON ALL CATCHBASINS AND CATCHBASIN MANHOLES. SUB-DRAINS TO EXTEND A MINIMUM 5.0m UPSTREAM ON EITHER SIDE OF THE CATCHBASIN / CATCHBASIN MANHOLE. SUB-DRAIN INSTALLATION TO BE CARRIED OUT IN ACCORDANCE WITH CITY STANDARDS.

GENERAL PARK NOTES:

1. ANY DIVERGENCE FROM THESE STANDARDS ARE TO BE APPROVED IN WRITING BY PFR.
2. ALL NEW PARKS REQUIRE THE FOLLOWING:
 - a. WATER SERVICE - MINIMUM 50MM
 - b. STORM SEWER SERVICE - MINIMUM 150MM DIA. PVC
 - c. SANITARY SEWER SERVICE - MINIMUM 150MM DIA. PVC
 - d. ELECTRICAL SERVICE - 200 AMPS (REFER TO ELECTRICAL PANEL BOX LOOKING BAR DETAIL - OCT 2018)
 - e. ELECTRICAL PANEL - FEDERAL SOLUTIONS OR APPROVED EQUAL (REFER TO ELECTRICAL PANEL BOX LOOKING BAR DETAIL - OCT 2018)
3. FOR ALL FLASH-PAD PROJECTS, DEVELOPER/CONSULTANT TO OBTAIN FORMAL WRITTEN APPROVAL FROM TORONTO WATER FOR STORM SEWER CONNECTION EXEMPTIONS PROJECT SUBMIT DESIGN DRAWINGS AND A SANITARY SEWER ANALYSIS (MEND TO CONFIRM SEWER CAPACITY).
4. DEVELOPER/CONSULTING ENGINEER TO CONTACT THE FOLLOWING FOR WATER METER DESIGN APPROVAL AND METER ACQUISITION FORM: FRED LAVORATO@FREDLAVORATO.COM SUPERVISOR CUSTOMER FIELD SERVICES, TORONTO WATER - LARGE METER DEPARTMENT (OVER 25MM) 1000 PICCO T000@TORONTO.CA SUPERVISOR CUSTOMER FIELD SERVICES, TORONTO WATER - SMALL METER DEPARTMENT (25MM AND BELOW)
5. BOUND METER ACQUISITION THROUGH USE #1 TO BE SUBMITTED TO BOTH PFR/LANDSCAPE ARCHITECT AND TORONTO WATER REVENUE CLERK KIMBERLY.WILSON@TORONTO.CA TO INITIATE WATER METER APPROVALS.
6. DEVELOPER/CONSULTANT TO OBTAIN APPLICABLE PERMITS FROM TORONTO BUILDING DEPARTMENT FOR ANY STRUCTURE INCLUDING PERMANENT PLUMBING LOCATED OUTSIDE OF A STRUCTURE.
7. WATER BOTTLE FILLING STATION / DRINKING FOUNTAIN COMBINATIONS REQUIRE A DRAIN TO THE SANITARY SEWER. PFR PREFERRED MODEL SHALL BE APPROVED WITH PARKS DISTRICT STAFF AND OPTIONS INCLUDE ELKAY OR MOST DEPENDABLE
 - a. ELKAY - MODEL: LK4420BFLUBBLU OR MDF 10125 SM (WATER BOTTLE AND DRINKING FOUNTAIN)
 - b. ELKAY - MODEL: LK4420BFLUBBLU OR MDF 10155 SM (WATER BOTTLE WITH DRINKING FOUNTAIN AND DOG BOWL)

STANDARD WATERMAIN AND WATER SERVICE NOTES:

1. 150MM DIA. TO 400MM DIA. WATERMAIN SHALL BE EQUAL TO AWMA C-900 CLASS 150, DR 18. 50MM DIA. WATERMAIN OR SMALLER TO BE TYPE 'K' SOFT COPPER TUBING.
2. ALL WATERMAIN RECORDS SHALL BE AS PER DETAIL WITH GRANULAR 'B' BEDDING MATERIAL AND COMPACTED TO 100% S.P.D.
3. ALL PVC WATERMANS TO BE INSTALLED WITH TRACER WIRE IN ACCORDANCE WITH CITY STANDARD DWG. T-1106.04. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY STANDARD DWG. T-1106.04.
4. ALL WATERMANS SHALL MAINTAIN A MINIMUM 15M CLEARANCE FROM ALL MANHOLES AND CATCHBASINS.
5. THE CONTRACTOR SHALL COMPLETE THE NECESSARY WATER TESTING I.E. PRESSURE TEST, FLUSHING, ETC AS PER CITY STANDARDS. WATERMANS TO BE DISINFECTED IN ACCORDANCE WITH CITY STANDARD CONSTRUCTION SPECIFICATION TS 7.30.
6. THE OPERATION OF EXISTING WATERMAIN VALVES SHALL BE CONDUCTED AS REQUIRED BY THE CITY.
7. WATERMANS SHALL HAVE A MINIMUM COVER OF 1.80M FROM FINISHED GRADE.
8. DEFLECTION OF WATERMAIN TO BE WITHIN TOLERANCES SPECIFIED BY MANUFACTURER.
9. WHERE PIPE BEDDING FALLS BELOW THE ANTICIPATED WATER TABLE, THE BEDDING STONE MUST BE SURROUNDED WITH A GEOTEXTILE FILTER CLOTH.
10. WATER SERVICE VALVE IN BOX DETAILS TO BE AS PER CITY STANDARD DWG. T-1101.02-2.
11. ALL PROPOSED PLASTIC PIPE TO CONTAIN TRACER WIRE.
12. ALL PIPING TO BE THREADED INSTEAD OF SOLDERED.
13. PREFERENCE FOR ALL VALVES TO BE BALL VALVE INSTEAD OF GATE VALVE.

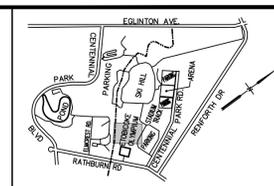
STANDARD SEWER NOTES:

1. MAINTENANCE HOLES (MHs) TO BE PRECAST AS PER CITY STANDARD DWG. T-701.010, T-701.011, FRAME AND GRATE PER OPSS 401.010, AND BENCHING IN ACCORDANCE WITH CITY STANDARD DWG. T-701.021 UNLESS OTHERWISE NOTED.
2. SANITARY SEWERS TO BE POLYVINYL CHLORIDE (PVC) AS PER CSA SPECIFICATION B137-3-M-1981 AND B162-4-M3 LATEST AMENDMENT(S) AND BE MINIMUM CLASS SDR 35 OR AS SPECIFIED ON DRAWINGS. PIPES SHALL BE JOINED WITH STANDARD RUBBER GASKETS AS PER CSA 257.3 SPECIFICATIONS. SANITARY SEWER BEDDING TO BE AS PER OPSS 802.010.
3. STORM SEWERS UP TO AND INCLUDING 400MM DIAMETER SHALL BE PVC SDR 35 WITH BEDDING AS PER OPSS 802.010, OR CONCRETE PIPE WITH CLASS 'B' BEDDING AS PER OPSS 802.030. SEWERS LARGER THAN 400MM DIAMETER TO BE CONCRETE PIPE CLASS 100-C WITH CLASS 'B' BEDDING AS PER OPSS 802.030. ALL SEWER PIPE SHALL HAVE RUBBER GASKET JOINT.
4. CONTRACTOR TO PROVIDE CONCRETE ENCASUREMENT FOR THE STORM AND SANITARY SEWER LINES AT THE BUILDING FOUNDATION WALL CROSSING LOCATIONS PER CITY STANDARD DWG. T-1402.01 (REFER TO CITY DRAWINGS).
5. ALL PROPOSED CATCHBASINS SHALL BE SINGLE PRE-CAST CONCRETE CATCHBASINS PER OPSS 705.010, AND FRAME AND GRATE PER OPSS 400.010. GOSS TRAP MUST BE INSTALLED IN CATCHBASIN.
6. ALL SEWER PIPE SHALL HAVE PREMIUM RUBBER GASKET JOINTS.
7. STORM SEWER TO BE INFILTRATED ON SITE, SO AS TO MINIMIZE THE VOLUME DISCHARGED TO THE STORM SEWERS.
8. ALL PROPOSED PLASTIC PIPE TO CONTAIN TRACER WIRE.
9. ALL PIPING TO BE THREADED INSTEAD OF SOLDERED.
10. PREFERENCE FOR ALL VALVES TO BE BALL VALVE INSTEAD OF GATE VALVE.

IRRIGATION NOTES:

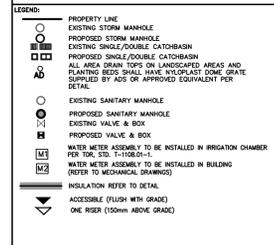
1. IRRIGATION SYSTEMS WILL BE REVIEWED AND CONSIDERED ON A SITE-BY-SITE BASIS.
2. PFR STANDARD IS POP-UP STYLE IRRIGATION SYSTEM.
3. THE IRRIGATION CONTROLLER SHOULD BE A RAINBIRD LXME (OR APPROVED EQUAL) WITH A FLOW MODULE AND A NCC 30 COMMUNICATION CARD.
4. AUTOMATIC IRRIGATION SYSTEM WILL NEED A MASTER VALVE AND A RAINBIRD FLOW SENSOR FOR LXME CONTROLLER (OR APPROVED EQUAL) INSTALLED DOWNSTREAM OF THE BACKFLOW PREVENTER.
5. IRRIGATION CONTROLLER TO BE INSTALLED IN THE ABOVE GRADE ELECTRICAL PANEL AND COORDINATED WITH THE ELECTRICAL CONSULTANT.
6. QUICK COUPLERS ARE REQUIRED ON THE IRRIGATION LINES, AND SHALL BE LOCATED AS DIRECTED BY PFR.
7. ALL PROPOSED PLASTIC PIPE TO CONTAIN TRACER WIRE.
8. ALL PIPING TO BE THREADED INSTEAD OF SOLDERED.
9. PREFERENCE FOR ALL VALVES TO BE BALL VALVE INSTEAD OF GATE VALVE.

PARKS, FORESTRY & RECREATION STANDARD DRAWING		REV 0	MAR 2021
GENERAL PARK SERVICE NOTES		T-1130.011	
NTS		SHEET 1	



- KEY PLAN (N.T.S.)**
1. VERIFY ALL DIMENSIONS FROM TO CONSTRUCTION.
 2. SURVEY COMPLETED BY TEAM SURVEYING LIMITED, O.L.S.
 3. DO NOT SCALE DRAWINGS.
 4. DO NOT SCALE DIMENSIONS OR DISCREPANCIES TO URBAN WATERSEWER GROUP LIMITED IMMEDIATELY UPON DISCOVERY.
 5. USE ONLY LATEST REVISED DRAWINGS OF THE PROJECT. ALL EARLIER REVISED DRAWINGS OF THE PROJECT ARE TO BE DELETED.
 6. "ISSUED FOR CONSTRUCTION"
 7. THE DRAWINGS ARE THE PROPERTY OF URBAN WATERSEWER GROUP LIMITED AND MUST BE RETURNED ON COMPLETION OF THE PROJECT. ANY UNAUTHORIZED USE OF THIS PLAN IS PROHIBITED. THE USER SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY ARISE FROM THE USE OF THIS DRAWING FOR OTHER THAN THE INTENDED PURPOSE OR OTHER PURPOSES PRIOR TO THE APPROVAL AND PRIOR TO PERMITS BEING GRANTED FROM ALL AUTHORITIES HAVING JURISDICTION.

- BENCHMARK NOTE:**
1. CITY OF TORONTO BENCHMARK NO. 020003 (2202000003), HAVING AN ELEVATION 150.00M (524.77 FT) AT THE CORNER OF CENTENNIAL PARK STONE/BRICK WAREHOUSE BUILDING, SOUTH AND WEST OF THE 96th WELL EAST OF CENTENNIAL PARK BUILDING AND EAST OF THE PARKS BRASS FACILITIES. BENCHMARK IN SOUTH FACE OF BUILDING 3.2 METRES WEST OF THE SOUTHWEST CORNER AND 4.1 METRES ABOVE GROUND LEVEL.
 2. CITY OF TORONTO BENCHMARK NO. E1143 (1251967143), HAVING AN ELEVATION 149.31M (490.00 FT) AT THE CORNER OF CENTENNIAL PARK STONE/BRICK WAREHOUSE BUILDING, SOUTH AND WEST OF THE 96th WELL EAST OF CENTENNIAL PARK BUILDING AND EAST OF THE PARKS BRASS FACILITIES. BENCHMARK IN SOUTH FACE OF BUILDING 3.2 METRES WEST OF THE SOUTHWEST CORNER AND 4.1 METRES ABOVE GROUND LEVEL.



- NOTE:**
1. CONTRACTOR SHALL ENSURE A MINIMUM OF 1.2m OF COVER OVER ALL PIPES OTHERWISE THE PIPE SHALL BE INSULATED PER THE DETAIL ON NOTES AND DETAILS PLAN DWG NO. 23038-CND1.
 2. ALL SUB-DRAINS SHALL BE MINIMUM 100mmØ PERFORATED PVC WITH GEOTEXTILE SOCK AS PER OPSS 704.010. ALL CATCHBASINS SHALL BE INSTALLED ON ALL PARKING LOT CATCHBASINS AND CATCHBASIN MANHOLES.
 3. SUB-DRAINS TO EXTEND A MINIMUM 5.0m UPSTREAM ON EITHER SIDE OF THE CATCHBASIN AND CATCHBASIN MANHOLE TO THE DRAINAGE PATH.
 4. SUB-DRAIN INSTALLATION UNDER PAVEMENT/CONCRETE SURFACES TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND ONTARIO BUILDING CODES. REFER TO SUBMITTAL ON NOTES AND DETAILS PLAN DWG NO. 23038-CND1.

CONTRACTOR NOTES AND PRIOR TO CONSTRUCTION:

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING SERVICES, WATERMANS, UTILITIES AND SEWERS AT POINTS OF CROSSING TO THEIR SATISFACTION AND MODIFY THEIR PROPOSAL ACCORDINGLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE ADJUSTMENT OF ALL UTILITIES, SEWERS AND WATERMANS AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE SITE SERVING. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ARCHITECT AND PFR IN WRITING UPON DISCOVERY OF ANY DISCREPANCIES FOUND ON THE DRAWINGS.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING SERVICES, WATERMANS, UTILITIES AND SEWERS AT POINTS OF CROSSING TO THEIR SATISFACTION AND MODIFY THEIR PROPOSAL ACCORDINGLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE ADJUSTMENT OF ALL UTILITIES, SEWERS AND WATERMANS AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE SITE SERVING. THE CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ARCHITECT AND PFR IN WRITING UPON DISCOVERY OF ANY DISCREPANCIES FOUND ON THE DRAWINGS.
3. CONTRACTOR SHALL SECURE A ROAD OCCUPANCY PERMIT FROM THE MUNICIPAL WORKS DEPARTMENT PRIOR TO ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY.
4. UPON COMPLETION OF THE SEWER INSTALLATION THE CONTRACTOR SHALL PROVIDE A FORMAL WRITTEN APPROVAL FROM TORONTO WATER FOR STORM SEWER CONNECTION EXEMPTIONS PROJECT SUBMIT DESIGN DRAWINGS AND A SANITARY SEWER ANALYSIS (MEND TO CONFIRM SEWER CAPACITY).
5. THE CONTRACTOR SHALL SECURE A ROAD OCCUPANCY PERMIT FROM THE MUNICIPAL WORKS DEPARTMENT PRIOR TO ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY.

2024-11-22	RE-ISSUED FOR PERMIT AND SPA	CC	PE
2024-11-18	ISSUED FOR PERMIT AND TENDER	CC	PE
2024-11-08	ISSUED FOR SPA	CC	PE
NO YYYY-MM-DD	REVISION	DN	CH

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 GALEONDA EAST, ONTARIO, L7C 1H9
 TEL: (905) 947-1481
 www.rbanwatershed.com
 urban.watershed@gmail.com

PROFESSIONAL ENGINEER
 A. W. MCEWEN
 100539591
 November 22, 2024
 PROVINCE OF ONTARIO

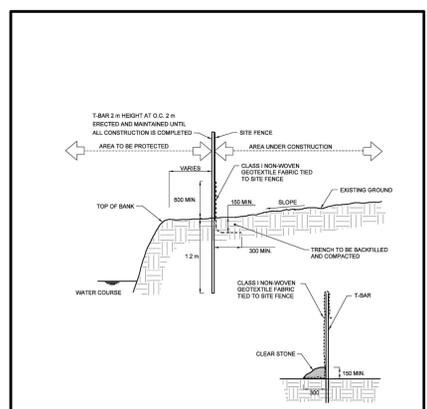
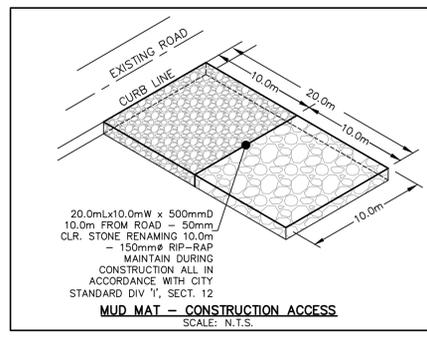
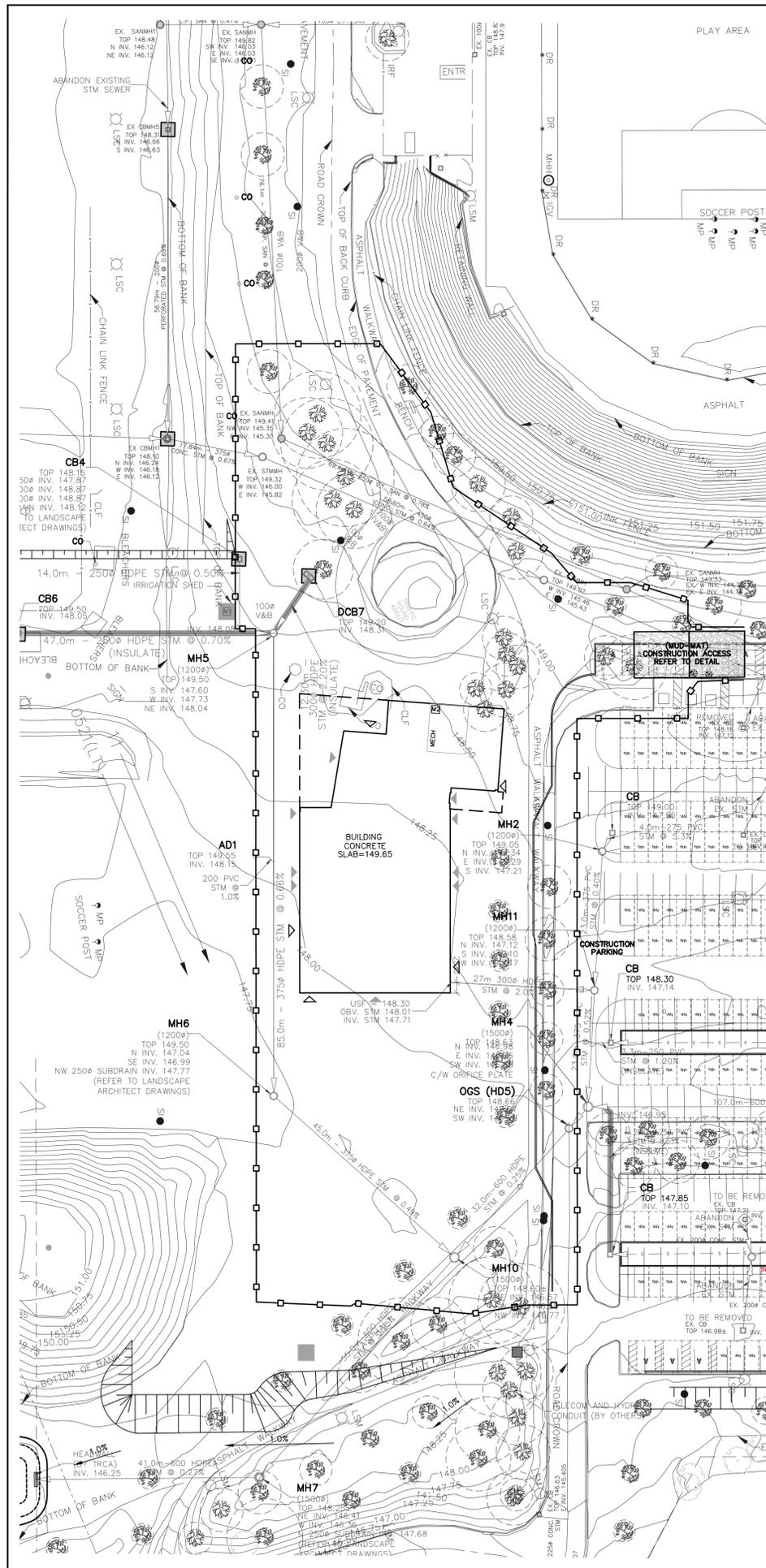
FIFA - EAST VSTS - CENTENNIAL PARK
 256 Centennial Park Road,
 Toronto, Ontario, M9C 5N3

Toronto
 Toronto Parks, Forestry and Recreation

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 Scale = 1:500 metric

PROJECT No: 23038

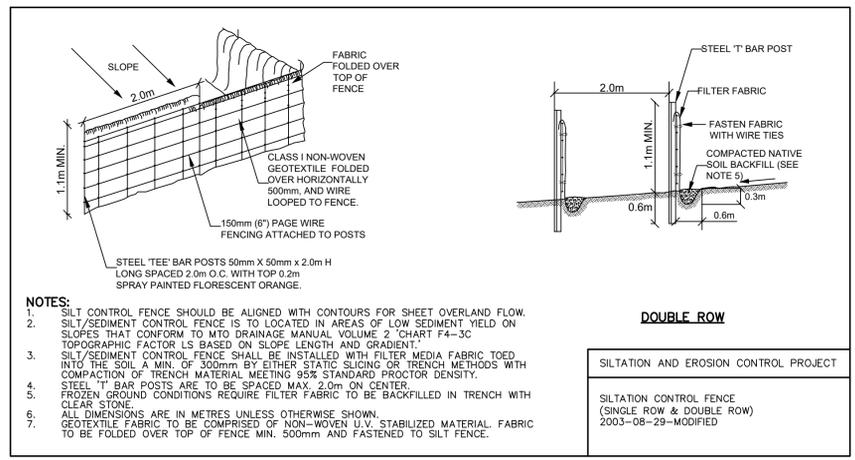
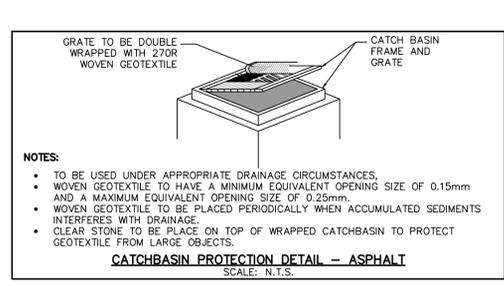
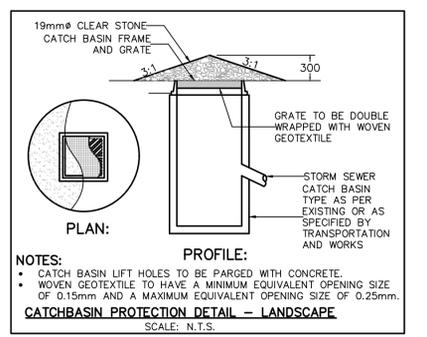
CSS-1
 SERVICING PLAN / PUBLIC UTILITY PLAN - EAST VSTS
 SHEET: 1 OF 8



NOTES:

- MATERIALS REMOVED FROM TRENCH SHALL BE REPLACED ON TOP OF HORIZONTAL POSITION OF FILTER CLOTH.
- FILTER CLOTH SHALL BE HORIZONTALLY OVERLAPPED 300mm.
- SILT FENCE INSTALLATION WORK SHALL AVOID THE DESTRUCTION OF EXISTING WOODY VEGETATION (E.G. SHRUBS AND TREES OTHER THAN THOSE SPECIES MENTIONED) AND SHALL BE APPROVED FOR REMOVAL.

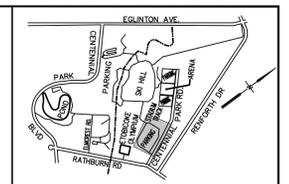
ENGINEERING & CONSTRUCTION SERVICES STANDARD DRAWING
REV 1 NOV 2014
T-219.130-1
NTS SHEET 1



- EROSION AND SEDIMENT CONTROL NOTES:**
- SEDIMENT BARRIERS, CHECK DAMS, AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED.
 - IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
 - THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.
 - ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON SITE.
 - ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH CITY OF TORONTO NOISE BYLAW.
 - SEDIMENT CONTROL FENCE TO BE AS PER CITY OF TORONTO STANDARD T-219.130-1.
 - ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT SITE FROM TEMPORARY CONSTRUCTION ACCESS.
 - ALL TOPSOIL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.
 - FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS TO HAVE SOD.
 - FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIX 270R OR APPROVED EQUIVALENT.
 - FILTER CLOTH WILL BE PLACED ON THE CATCHBASINS ON PUBLIC STREET ACROSS THE PROPERTY'S FRONTAGE.
 - IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS CONSTRUCTION ACCESS, SILT FENCE, SECURITY FENCING, SEDIMENT CONTROL, AND MUD MATS.
 - STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE DEVELOPER AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.

- ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES:**
- NO CONSTRUCTION ACTIVITY OR MACHINERY TO OPERATE OUTSIDE THE SILT FENCE.
 - PROVISION OF A MUD MAT CONSTRUCTION ENTRANCE IN ORDER TO CONTROL THE TRACKING OF SEDIMENT AND DEBRIS MUST BE CONTROLLED ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.
 - INSTALLATION AND MAINTENANCE OF CATCHBASIN SEDIMENT BARRIERS THROUGHOUT THE SITE AND ON PUBLIC STREET ACROSS THE PROPERTY'S FRONTAGE DURING ALL CONSTRUCTION ACTIVITIES IN ORDER TO REDUCE AND TRAP SEDIMENT ON SITE. CONSTANT ATTENTION WILL BE PAID TO MAINTAINING THEM SILT FREE.
 - EROSION AND SEDIMENT CONTROL DEVICES WILL BE REMOVED ONLY AFTER SITE HAS BEEN STABILIZED AND PAVING OPERATIONS ARE COMPLETE.
 - THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES IN WORKING CONDITIONS AT ALL TIMES TO THE SATISFACTION OF THE CITY OF TORONTO.
 - THE ESC STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT. THE TRCA ENFORCEMENT OFFICE WILL BE CONTACTED IMMEDIATELY SHOULD THE EROSION AND SEDIMENT CONTROL PLANS CHANGE FROM THE APPROVED PLANS. FAILED ESC MEASURES WILL BE REPAIRED IMMEDIATELY.
 - INSPECTION OF THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES WILL OCCUR:
 - ON A WEEKLY BASIS
 - AFTER EVERY SIGNIFICANT RAINFALL EVENT
 - AFTER SIGNIFICANT SNOW MELT EVENTS, AND
 - DAILY DURING EXTENDED RAIN OR SNOWMELT PERIODS.
 - ALL DAMAGED ESC MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.

CONTRACTOR TO REFER TO CURRENT EROSION & SEDIMENT CONTROL GUIDELINES FOR URBAN CONSTRUCTION DECEMBER 2006, FOR ADDITIONAL ESC MEASURES TO BE IMPLEMENTED AS REQUIRED BY SITE CONDITIONS AND WEATHER.



- KEY PLAN (N.T.S.)**
- NOTES:**
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 - SURVEY COMPLETED BY TEAM SURVEYING LIMITED, O.L.S.
 - DO NOT SCALE DRAWINGS.
 - REPORT ALL ERRORS, OMISSIONS OR DISCREPANCIES TO URBAN WATERSHED GROUP LIMITED IMMEDIATELY UPON DISCOVERY.
 - USE ONLY LATEST REVISION DRAWINGS OF THOSE THAT ARE MARKED "SIGNED FOR CONSTRUCTION".
 - THE DRAWINGS ARE THE PROPERTY OF URBAN WATERSHED GROUP LIMITED AND MUST BE RETURNED ON COMPLETION OF THE PROJECT. ANY UNAUTHORIZED USE OF THIS PLAN IS PROHIBITED.
 - URBAN WATERSHED GROUP LIMITED SHALL NOT BE HELD RESPONSIBLE FOR ANY DAMAGES WHICH MAY ARISE FROM THE USE OF THIS DRAWING FOR TRENCH, SWEEPING, CONSTRUCTION OR OTHER PURPOSES PRIOR TO FINAL APPROVAL AND PRIOR TO PERMITS BEING GRANTED FROM ALL AUTHORITIES HAVING JURISDICTION.
- BENCHMARK NOTE:**
- ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARKS:
- CITY OF TORONTO BENCHMARK NO. 020003 (1202000003), HAVING AN ELEVATION 150.00 METRES BENCHMARK LOCATED AT CENTENNIAL PARK STONE/BRICK WAREHOUSE BUILDING SOUTH AND WEST OF THE 90' WALK EAST OF CENTENNIAL PARK BUILDING AND EAST OF THE PARK BASKETBALL FACILITIES. BENCHMARK IN SOUTH FACE OF BUILDING 3.2 METRES WEST OF THE SOUTHWEST CORNER AND 0.16 METRES ABOVE GROUND LEVEL.
 - CITY OF TORONTO BENCHMARK NO. E1143 (1251967143), HAVING AN ELEVATION 151.25 METRES BENCHMARK LOCATED AT 400 METRES SOUTH OF EGLINTON AVENUE, 0.16 METRES ABOVE GROUND LEVEL.

- LEGEND:**
- PROPERTY LINE
 - EXISTING ELEVATION
 - PROPOSED ELEVATION
 - EXISTING WATER CONTROL WITH ELEVATION
 - EXISTING SHEET FLOW
 - PROPOSED SHEET FLOW
 - EXISTING STORM MANHOLE
 - PROPOSED STORM MANHOLE
 - EXISTING SINGLE/DOUBLE CATCHBASIN
 - PROPOSED SINGLE/DOUBLE CATCHBASIN
 - AREA OPEN TO BE LANDSCAPED AND PLANTING BEDS SHALL HAVE NOT LESS THAN 10% GRADE SUPPLIED BY ADS OR EQUIVALENT
 - PROPOSED CLEANOUT
 - EXISTING SANITARY MANHOLE
 - PROPOSED SANITARY MANHOLE
 - EXISTING VALVE & BOX
 - PROPOSED VALVE & BOX
 - EXISTING CURB STOP
 - PROPOSED SILT FENCE AS PER T-219.130 TO BE INSTALLED AS SHOWN INDICATED ON THIS PLAN. REFER TO DETAIL.
 - (MUD-MAT) CONSTRUCTION ACCESS REFER TO DETAIL.
 - PROPOSED CATCHBASIN SEDIMENT CONTROL. REFER TO DETAIL.

CONTRACTOR'S NOTES AND PRIOR TO CONSTRUCTION:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AUTHORITIES AND AGENCIES AT POINTS OF CROSSING TO THEIR SATISFACTION AND ADOPT THE BEST PRACTICES FOR THE PROTECTION OF THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE OBTAINMENT OF ALL UTILITIES, SERVICES AND MAINTENANCE AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE SITE. THE URBAN WATERSHED GROUP LIMITED SHALL IMMEDIATELY ADVISE THE ARCHITECT AND URBAN WATERSHED GROUP LTD. ANY DISCREPANCIES FOUND ON THIS DRAWING.
- AT THE TIME OF TENDER THE CONTRACTOR AND THEIR SUPPLIERS SHALL REVIEW THE TECHNICAL INFORMATION FOR THE PROJECT AND SHALL MEASURE FOR ALL SUBSURFACE SERVICES STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE MUNICIPAL WORKS DEPARTMENT PRIOR TO ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY.
- COMPLETE TESTING AS REQUIRED WHICH WILL INCLUDE, BUT NOT BE LIMITED TO, CATCH BASIN TESTING, PERFORMED BY THE CONTRACTOR AND, IF TESTING THE WATERMAN SHALL ALSO BE TESTED FOR CONTAMINANTS. PRESSURE AND CONDUCTION BY A QUALIFIED RATED MATRIFIN ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE CANADIAN AND ONTARIO BUILDING CODE STANDARDS. RESULTS SHALL BE FORWARDED TO THE ARCHITECT AND URBAN WATERSHED GROUP IMMEDIATELY FOLLOWING THE TEST. THE CONTRACTOR SHALL ALSO SUBMIT AS-BUILT ELEVATIONS AND LOCATIONS OF THE SERVICES AND GRADING IMMEDIATELY FOLLOWING THE TEST.
- ALL EARTH MOVING OPERATIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY OF TORONTO STANDARD SPECIFICATIONS FOR CONSTRUCTION. ALL MATERIAL SHALL BE CHEMICALLY TESTED TO DETERMINE SUITABILITY TO PROPOSED STANDARDS FOR USE IN CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO PROPERLY DISPOSE OF UNSUITABLE OR CONTAMINATED MATERIAL.

CHERIE NG ARCHITECT INC.

NO	YYYY-MM-DD	REVISION	DN	CH
3	2024-11-22	RE-ISSUED FOR PERMIT AND SPA	CC	PE
2	2024-11-18	ISSUED FOR PERMIT AND TENDER	CC	PE
1	2024-11-08	ISSUED FOR SPA	CC	PE

NO YYYY-MM-DD/REVISION

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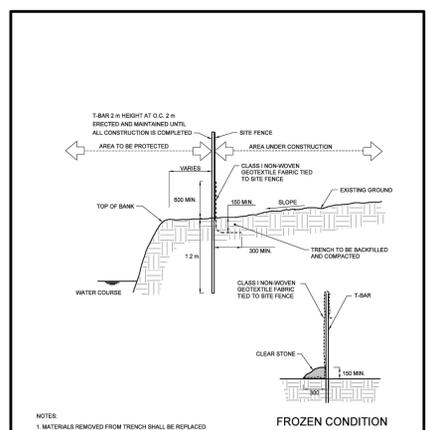
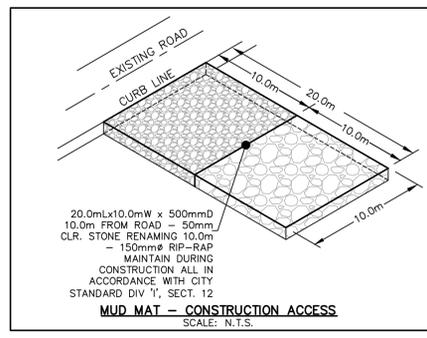
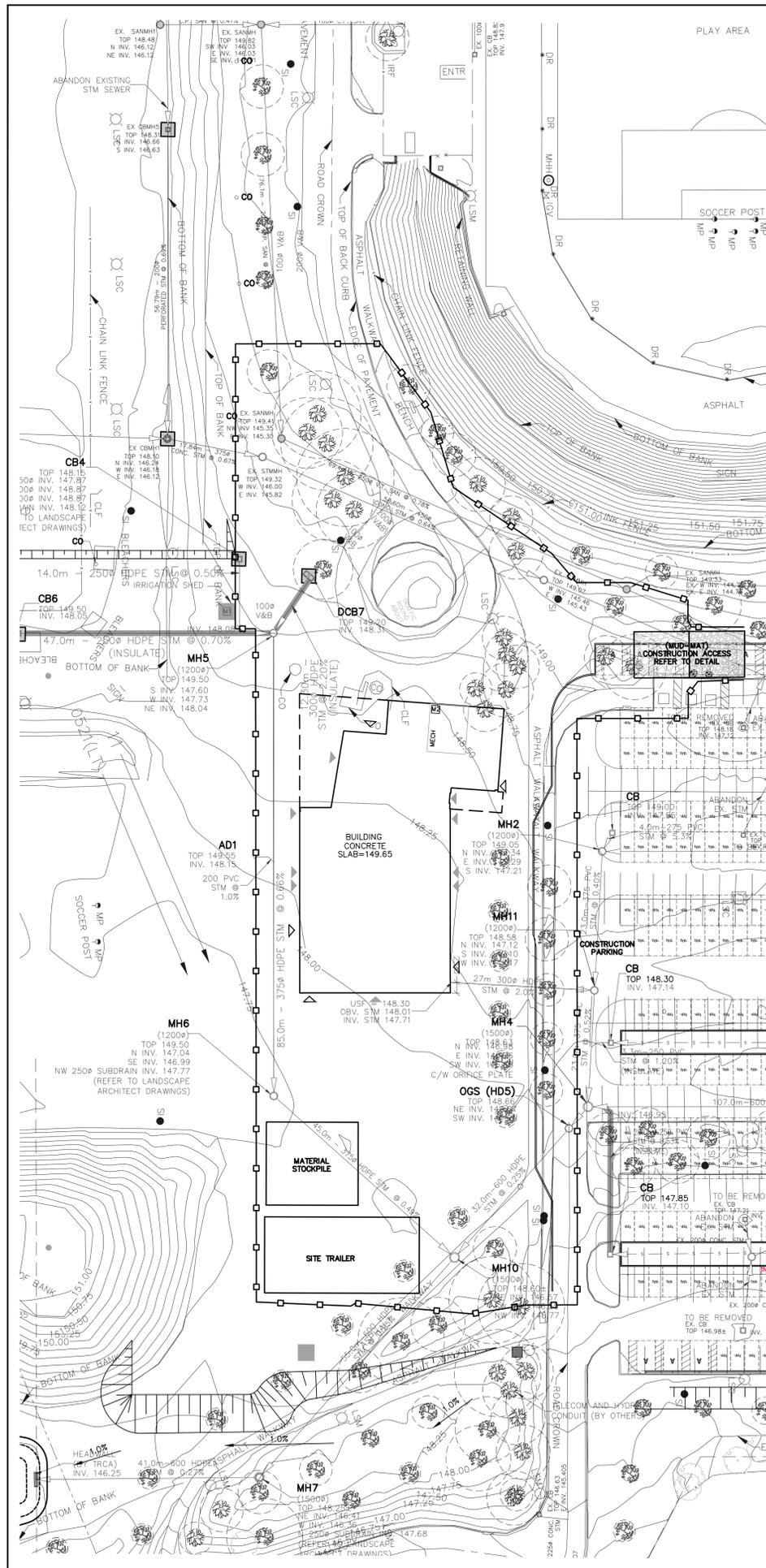
Urban Watershed Group Ltd.

FIFA - EAST VSTS - CENTENNIAL PARK
256 Centennial Park Road,
Toronto, Ontario, M9C 5N3

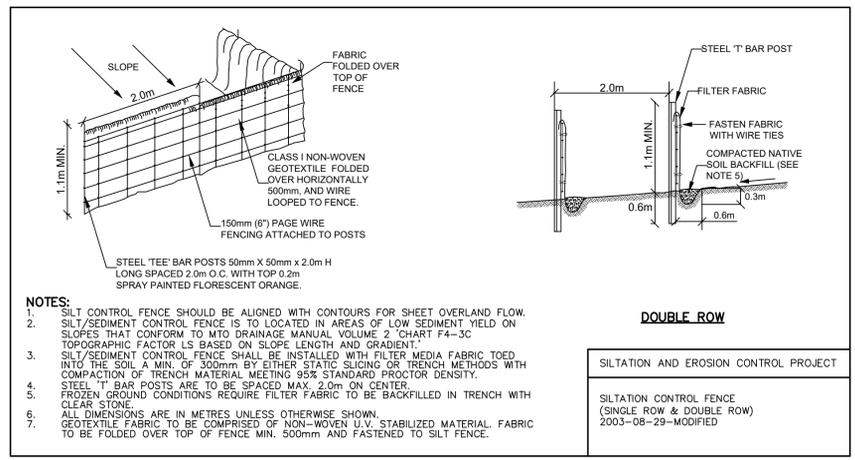
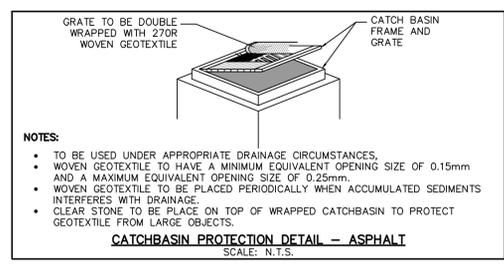
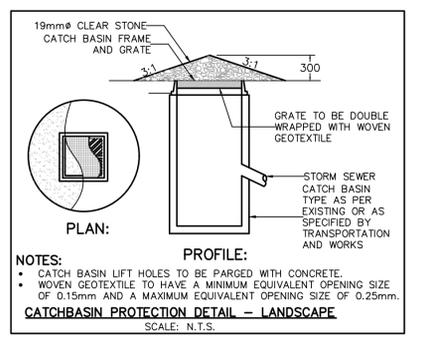
Toronto
Toronto Parks, Forestry and Recreation

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PROJECT No: 23038
CES-1
EROSION & SEDIMENT CONTROL PLAN - EAST VSTS
SHEET: 3 OF 8



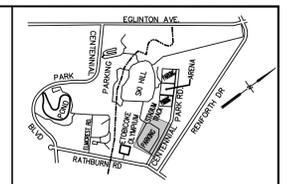
ENGINEERING & CONSTRUCTION SERVICES STANDARD DRAWING	REV 1	NOV 2014
SEDIMENT CONTROL FENCE	T-219.130-1	
	NTS	SHEET 1



- EROSION AND SEDIMENT CONTROL NOTES:**
1. SEDIMENT BARRIERS, CHECK DAMS, AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
 2. ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED.
 3. IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
 4. THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.
 5. ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON SITE.
 6. ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH CITY OF TORONTO NOISE BYLAW.
 7. SEDIMENT CONTROL FENCE TO BE AS PER CITY OF TORONTO STANDARD T-219.130-1.
 8. ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT SITE FROM TEMPORARY CONSTRUCTION ACCESS.
 9. ALL TOPSOIL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.
 10. FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS TO HAVE SOD.
 11. FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIX 270R OR APPROVED EQUIVALENT.
 12. FILTER CLOTH WILL BE PLACED ON THE CATCHBASINS ON PUBLIC STREET ACROSS THE PROPERTY'S FRONTAGE.
 13. IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS CONSTRUCTION ACCESS, SILT FENCE, SECURITY FENCING, SEDIMENT CONTROL, AND MUD MATS.
 14. STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE DEVELOPER AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.

- ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES:**
1. NO CONSTRUCTION ACTIVITY OR MACHINERY TO OPERATE OUTSIDE THE SILT FENCING.
 2. PROVISION OF A MUD MAT CONSTRUCTION ENTRANCE IN ORDER TO CONTROL THE TRACKING OF SEDIMENT AND DEBRIS MUST BE CONTROLLED ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.
 3. INSTALLATION AND MAINTENANCE OF CATCHBASIN SEDIMENT BARRIERS THROUGHOUT THE SITE AND ON PUBLIC STREET ACROSS THE PROPERTY'S FRONTAGE DURING ALL CONSTRUCTION ACTIVITIES IN ORDER TO REDUCE AND TRAP SEDIMENT ON SITE. CONSTANT ATTENTION WILL BE PAID TO MAINTAINING THEM SILT FREE.
 4. EROSION AND SEDIMENT CONTROL DEVICES WILL BE REMOVED ONLY AFTER SITE HAS BEEN STABILIZED AND PAVING OPERATIONS ARE COMPLETE.
 5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES IN WORKING CONDITIONS AT ALL TIMES TO THE SATISFACTION OF THE CITY OF TORONTO.
 6. THE ESC STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT. THE TRCA ENFORCEMENT OFFICE WILL BE CONTACTED IMMEDIATELY SHOULD THE EROSION AND SEDIMENT CONTROL PLANS CHANGE FROM THE APPROVED PLANS. FAILED ESC MEASURES WILL BE REPAIRED IMMEDIATELY.
 7. INSPECTION OF THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES WILL OCCUR:
 - ON A WEEKLY BASIS
 - AFTER EVERY SIGNIFICANT RAINFALL EVENT
 - AFTER SIGNIFICANT SNOW MELT EVENTS, AND
 - DAILY DURING EXTENDED RAIN OR SNOWMELT PERIODS.
 8. ALL DAMAGED ESC MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.

CONTRACTOR TO REFER TO CURRENT EROSION & SEDIMENT CONTROL GUIDELINES FOR URBAN CONSTRUCTION DECEMBER 2006, FOR ADDITIONAL ESC MEASURES TO BE IMPLEMENTED AS REQUIRED BY SITE CONDITIONS AND WEATHER.



- KEY PLAN (N.T.S.)**
- NOTES:**
1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
 2. SURVEY COMPLETED BY TOWN SURVEYING LIMITED, O.L.S.
 3. DO NOT SCALE DRAWINGS.
 4. REPORT ALL BROWNS, REDDISH OR DISCREPANCIES TO URBAN WATERSHED GROUP LIMITED IMMEDIATELY UPON DISCOVERY.
 5. USE ONLY LATEST REVISION DRAWINGS OF THOSE THAT ARE MARKED "SIGNED FOR CONSTRUCTION".
 6. THE DRAWINGS ARE THE PROPERTY OF URBAN WATERSHED GROUP LIMITED AND MUST BE RETURNED ON COMPLETION OF THE PROJECT. ANY UNAUTHORIZED USE OF THIS PLAN IS PROHIBITED.
 7. URBAN WATERSHED GROUP LIMITED SHALL NOT BE HELD RESPONSIBLE FOR ANY DAMAGES WHICH MAY ARISE FROM THE USE OF THIS DRAWING FOR TRENCH, SWEEPING, CONSTRUCTION OR OTHER PURPOSES PRIOR TO FINAL APPROVAL AND PRIOR TO PERMITS BEING GRANTED FROM ALL AUTHORITIES HAVING JURISDICTION.

- BENCHMARK NOTE:**
- ELEVATIONS SHOWN HEREON ARE GEODETIC AND ARE REFERRED TO THE CITY OF TORONTO BENCHMARKS:
1. CITY OF TORONTO BENCHMARK NO. 020003 (1202000003), HAVING AN ELEVATION 150.00 METRES BENCHMARK LOCATED AT CENTENNIAL PARK STONE/BRICK WAREHOUSE BUILDING, SOUTH AND WEST OF THE SO 50' EAST OF CENTENNIAL PARK BOULEVARD AND EAST OF THE PARK BARRIERS FACILITIES, BENCHMARK IN SOUTH FACE OF BUILDING 3.2 METRES WEST OF THE SOUTH FACE OF BOULEVARD AND 0.16 METRES ABOVE GROUND LEVEL.
 2. CITY OF TORONTO BENCHMARK NO. E1143 (1251967143), HAVING AN ELEVATION 151.50 METRES BENCHMARK LOCATED AT 400 METRES SOUTH OF EGLINTON AVENUE, 0.16 METRES ABOVE GROUND LEVEL.

- LEGEND:**
- PROPERTY LINE
 - EXISTING ELEVATION
 - PROPOSED ELEVATION
 - EXISTING WATER CONTROL WITH ELEVATION
 - EXISTING SHEET FLOW
 - PROPOSED SHEET FLOW
 - EXISTING STORM MANHOLE
 - PROPOSED STORM MANHOLE
 - EXISTING SINGLE/DOUBLE CATCHBASIN
 - PROPOSED SINGLE/DOUBLE CATCHBASIN
 - ALL AREAS DESIGNATED AS LANDSCAPED AREAS AND PLANTING BEDS SHALL HAVE NOT LESS THAN 50% COVER SUPPLIED BY ADS OR APPROVED EQUIVALENT
 - PROPOSED CLEANOUT
 - EXISTING SANITARY MANHOLE
 - PROPOSED SANITARY MANHOLE
 - EXISTING VALVE & BOX
 - PROPOSED VALVE & BOX
 - EXISTING CURB STOP
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 - (MUD-MAT) CONSTRUCTION ACCESS REFER TO DETAIL.
 - PROPOSED CATCHBASIN SEDIMENT CONTROLS REFER TO DETAIL.

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3. ALL EARTH MOVING OPERATIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE TRCA ENFORCEMENT OFFICE'S STANDARD PRACTICES FOR THE PROTECTION OF THE ENVIRONMENT AND ALL COSTS ASSOCIATED WITH THE ACQUISITION OF ALL UTILITIES, SERVICES AND MATERIALS AS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE SITE. THE URBAN WATERSHED GROUP LIMITED IS NOT RESPONSIBLE TO THE ARCHITECT, AND URBAN WATERSHED GROUP LTD. ANY RESPONSIBILITIES FOUND ON THIS PROJECT.

3. 2024-11-22	RE-ISSUED FOR PERMIT AND SPA	CC	PE
2. 2024-11-18	ISSUED FOR PERMIT AND TENDER	CC	PE
1. 2024-11-08	ISSUED FOR SPA	CC	PE
NO YYYY-MM-DD	REVISION	DN	CH

CHERIE NG ARCHITECT INC.

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Toronto
Toronto Parks, Forestry and Recreation

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Scale = 1:500 metric

PROJECT No: 23038

CMP-1
CONSTRUCTION MANAGEMENT PLAN - EAST VSTS
SHEET: 4 OF 8