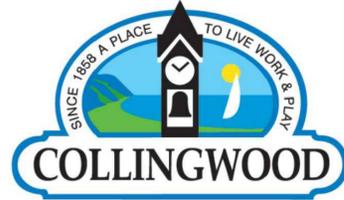
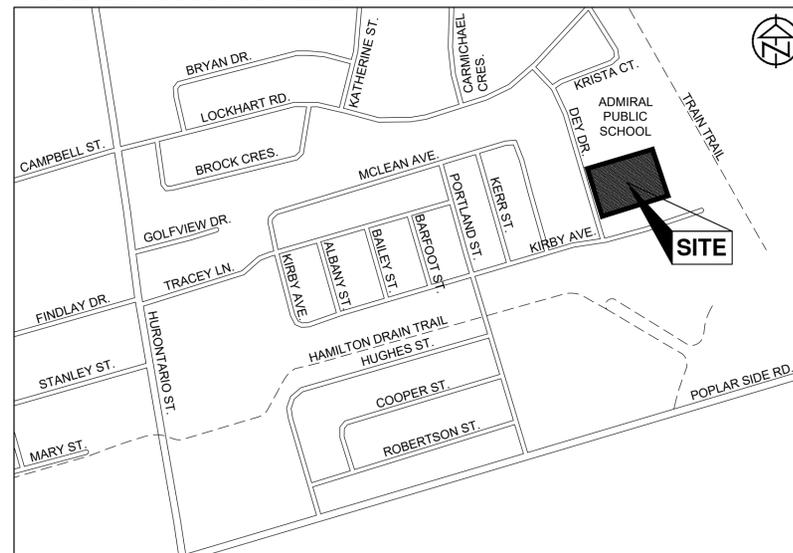


WILSON-SHEFFIELD PARK & WASHROOM BUILDING TOWN OF COLLINGWOOD



SITE LOCATION PLAN



31 DEY DRIVE, COLLINGWOOD, ONTARIO

NTS

ISSUED FOR TENDER
APRIL 23, 2025

Contract No. FIN2025-006T
ETi Project No. ET116005-02

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GENERAL NOTES

1.0 SITE PROTECTION & ACCESS

- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND OBTAINING ALL SERVICE AND UTILITY LOCATES AND MAINTAINING SITE MARKINGS AND FLAGS DURING CONSTRUCTION.
- PROTECT ALL EXISTING FEATURES, SERVICES AND UTILITIES, AND SHOULD DAMAGE OCCUR, RESTORE TO EXISTING OR BETTER CONDITION TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND TOWN.
- ACCESS TO THE WORK SITE AND LOCATIONS FOR STOCKPILES, MATERIALS AND EQUIPMENT STORAGE SHALL BE AGREED UPON BY THE GENERAL CONTRACTOR, CONTRACT ADMINISTRATOR, AND TOWN.
- PRIOR TO COMMENCEMENT OF WORK, ALL SITE PROTECTION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND THE SITE, MATERIALS, AND EQUIPMENT SHALL BE SECURED FROM PUBLIC ACCESS.
- THE CONTRACTOR SHALL SECURE EXISTING FENCE GATES ALONG RESIDENTIAL PROPERTIES TO ENSURE THAT RESIDENTS CANNOT ACCESS THE SITE DURING CONSTRUCTION. THE METHOD OF SECURING THE GATES SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION. AT THE CONCLUSION OF THE PROJECT, SECURITY MEASURES USED TO SECURE FENCE GATES SHALL BE REMOVED FOLLOWING THE ISSUANCE OF SUBSTANTIAL PERFORMANCE AND UPON APPROVAL BY THE CONTRACT ADMINISTRATOR AND TOWN.

- DURING CONSTRUCTION, ALL PLAYSPACES, PLAYGROUND EQUIPMENT, AND MATERIALS INSTALLED PRIOR TO CERTIFICATION OF THE PLAYSPACES SHALL BE SECURED WITH CONSTRUCTION FENCING IN ACCORDANCE WITH CANCSA-2614-20 (CSA) "CHILDREN'S PLAYGROUND EQUIPMENT AND SURFACING" (LATEST EDITION), SECTION 8.3. THE CONSTRUCTION FENCE SHALL BE REMOVED ONLY AFTER THE PLAYGROUND IS CERTIFIED AS COMPLIANT WITH CANCSA-2614-20 AND A SUBSTANTIAL PERFORMANCE CERTIFICATE HAS BEEN ISSUED.
- CONSTRUCTION VEHICLES SHALL ENTER THE SITE USING THE DESIGNATED CONSTRUCTION ACCESS.
- MUD AND DEBRIS TRACKED ONTO ANY ROAD, PARKING AREA, WALKWAY, TRAIL, OR OTHER SURFACE, BOTH ON AND OFF SITE, SHALL BE IMMEDIATELY CLEANED UP TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND TOWN.
- THE WORK SITE SHALL BE MAINTAINED IN AN ORDERLY AND WORKMANLIKE FASHION, WITH ALL REFUSE AND SCRAP MATERIALS BEING DISPOSED OF AT THE END OF EACH DAY AND THE SITE BEING LEFT IN AN ORDERLY CONDITION.
- ALL EXCAVATIONS AND TRENCHES SHALL BE IMMEDIATELY BACKFILLED AND NO EXCAVATION SHALL BE LEFT UNATTENDED OR OPEN OVERNIGHT.

2.0 CONSTRUCTION FENCING

- CONSTRUCTION FENCING SHALL BE ERECTED PRIOR TO COMMENCING ANY WORK AND REMOVED UPON COMPLETION OF THE WORKS, FOLLOWING APPROVAL BY THE CONTRACT ADMINISTRATOR.
- CONSTRUCTION FENCING AND GATE ASSEMBLIES SHALL BE 1.8m HIGH MODULAR GALVANIZED METAL FENCING BY MODUL-LOC, (905) 461-6000, OR APPROVED EQUAL.
- OPENINGS IN CONSTRUCTION FENCING TO FACILITATE DAILY CONSTRUCTION ACCESS SHALL BE CLOSED OFF DURING CONSTRUCTION OPERATIONS AND SECURED AT THE CONCLUSION OF EACH WORKDAY.
- WHERE FENCING CROSSES HARD SURFACED AREAS (E.G. PARKING LOTS, WALKWAYS, ETC.), SECURE FENCE BASES WITH SANDBAGS; DO NOT FASTEN OR SECURE FENCE POSTS TO HARD SURFACES.
- NO WORK SHALL BE CARRIED OUT BEYOND THE CONSTRUCTION FENCE UNLESS APPROVED OR DIRECTED BY THE CONTRACT ADMINISTRATOR.
- ALL CONSTRUCTION FENCING SHALL BE INSPECTED DAILY, MAINTAINED AS AN EFFECTIVE BARRIER FROM THE PUBLIC, AND REPAIRED/RE-INSTATED IMMEDIATELY SHOULD THE BARRIER BECOME COMPROMISED.

3.0 SILTATION CONTROL MEASURES

- SILTATION CONTROL MEASURES SHALL BE ERECTED PRIOR TO COMMENCING ANY WORK AND SHALL NOT BE REMOVED UNTIL AFTER RESTORATION, GROUND COVER, AND LANDSCAPE ARE ESTABLISHED AND FOLLOWING APPROVAL BY THE CONTRACT ADMINISTRATOR.
- SILT FENCING SHALL BE HEAVY DUTY SILT FENCE BARRIER IN ACCORDANCE WITH THE NOTTAWASAGA VALLEY CONSERVATION AUTHORITY STANDARD 850-23 DRAFT AND OPSS MUNI 805.
- NO WORK SHALL BE CARRIED OUT BEYOND THE SILTATION CONTROL FENCE UNLESS APPROVED OR DIRECTED BY THE CONTRACT ADMINISTRATOR.
- STRAW BALE FLOW CHECK DAMS SHALL BE IN ACCORDANCE WITH OPSS MUNI 805 AND OPSS 219.180.
- MUD MATS SHALL BE IN ACCORDANCE WITH OPSS MUNI 510 AND OPSS MUNI 511.
- CATCH BASIN SEDIMENT TRAPS SHALL BE RECTANGULAR CBST BY LAYFIELD OR APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH OPSS MUNI 805.
- CONTRACTOR SHALL INSPECT, MAINTAIN, AND REPAIR SILTATION CONTROL MEASURES BI-WEEKLY AND/OR FOLLOWING EACH RAIN EVENT.

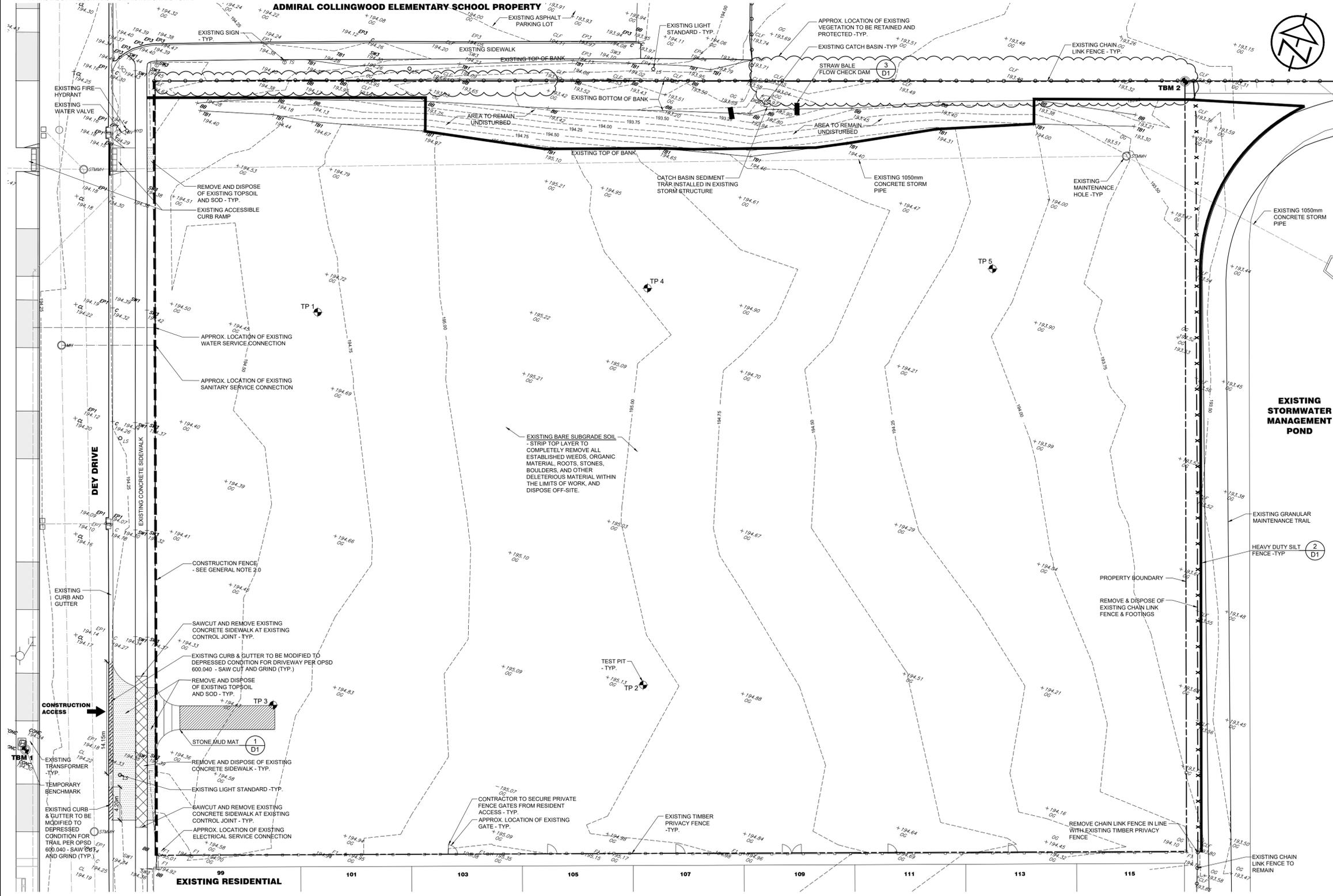
4.0 SALVAGING, REMOVAL & DISPOSAL

- SALVAGING, REMOVAL, AND DISPOSAL WORKS SHALL BE IN ACCORDANCE WITH OPSS MUNI 510 AND OPSS MUNI 180 AND SHALL INCLUDE THE REMOVAL OF GRANULAR BASE MATERIAL AND FOOTINGS WHERE APPLICABLE.
- SALVAGE ALL ITEMS IDENTIFIED AND STORE ON-SITE IN SECURE STORAGE AREA FOR REINSTALLATION WHERE SPECIFIED.
- CURB DEPRESSIONS: MODIFY EXISTING CONCRETE BARRIER CURB AND GUTTER TO A DEPRESSED DRIVEWAY CONDITION AS PER OPSD 600.040 USING SAW CUTTING AND GRINDING METHODS. MAINTAIN EXISTING GUTTER PAN AND DRAINAGE FLOWLINE. CONTRACTOR TO TAKE CARE NOT TO DAMAGE ADJACENT CURB SECTIONS OR GUTTER. SUBMIT PROPOSED METHOD AND EQUIPMENT FOR REVIEW PRIOR TO EXECUTION.
- REINSTATE EXISTING ELEMENTS DISTURBED BY SALVAGING OR REMOVALS OPERATIONS TO EXISTING OR BETTER CONDITION.
- GRANULAR BASE MATERIAL EXCAVATED FROM EXISTING FEATURES CAN BE DISPOSED ON-SITE AS FILL MATERIAL UNDER GENERAL SOFT LANDSCAPE AND PLANTING AREAS.
- DISPOSE OF ALL REMOVED MATERIALS, OR WASTE COMPONENTS OF SALVAGED ITEMS (E.G., FOOTINGS, ETC.) AND OTHER DELETERIOUS MATERIAL OFF-SITE IN LOCATION APPROVED BY THE CONTRACT ADMINISTRATOR.

5.0 STRIPPING & DISPOSAL OF ORGANICS & DEBRIS

- STRIP TOP LAYER OF NATIVE SUBGRADE TO REMOVE ALL ESTABLISHED WEEDS, ORGANIC MATERIAL, ROOTS, STONES/BOULDERS, AND OTHER DELETERIOUS MATERIAL WITHIN THE LIMITS OF WORK, AND DISPOSE OFF-SITE IN ACCORDANCE WITH OPSS MUNI 180 AND OPSS MUNI 206.

ADMIRAL COLLINGWOOD ELEMENTARY SCHOOL PROPERTY



LEGEND

- PROPERTY BOUNDARY
- EXISTING VEGETATION TO BE RETAINED AND PROTECTED
- EXISTING HYDRO TRANSFORMER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT STANDARD
- EXISTING SIGN
- EXISTING CATCHBASIN
- EXISTING MAINTENANCE HOLE
- TBM 1** TEMPORARY BENCHMARK
- TP 1** TEST PIT
- EXISTING UNDERGROUND SERVICES
- EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- EXISTING FENCE GATE
- EXISTING TIMBER PRIVACY FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING CHAIN LINK FENCE TO BE REMOVED
- CONSTRUCTION FENCING
- HEAVY DUTY SILT FENCING
- STRAW BALE FLOW CHECK DAM
- TOPSOIL & SOD REMOVALS
- HARD SURFACE REMOVALS

1. TOPOGRAPHIC SURVEY PROVIDED BY TATHAM ENGINEERING LTD. (2022).
2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE INDICATED.

TEMPORARY BENCHMARK ELEVATIONS
TBM 1 - ELEVATION 194.42 - TRANSFORMER PAD ON WEST SIDE OF DEY DRIVE.
TBM 2 - ELEVATION 193.30 - TOP OF IRON BAR ON N/E CORNER OF SITE.

CONTRACT DRAWINGS
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE LANDSCAPE ARCHITECT BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
ENVISION-TATHAM CLAIMS COPYRIGHT TO THIS DOCUMENT WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE LANDSCAPE ARCHITECT WITHOUT THE EXPRESS CONSENT OF ENVISION-TATHAM.

2.	ISSUED FOR TENDER	APR. 23/25	DW
1.	ISSUED FOR SITE PLAN APPROVAL	APR. 9/25	DW
NO.	REVISIONS	DATE	INITIAL

EXISTING STORMWATER MANAGEMENT POND

ENVIIONATHAM
115 Sandford Fleming Drive, Suite 200, Collingwood, ON, L9Y 5A6
Tel. (705) 445-0422 Fax. (705) 444-2327
e-mail: inquiry@envision-tatham.com

APPROVED

**WILSON-SHEFFIELD
PARK & WASHROOM
BUILDING
TOWN OF COLLINGWOOD**

EXISTING CONDITIONS, SITE PROTECTION & REMOVALS

SCALE: 1:250 JOB NO. ET116005-02

DESIGN: DW

DRAWN: GEC/AAL

CHECKED: DW

DATE: FEB. 5, 2025

ECR-1
DWG.

GENERAL NOTES

1.0 LAYOUT

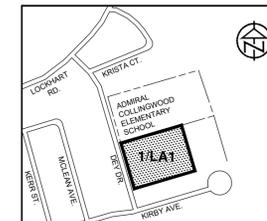
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
- THE CONTRACT ADMINISTRATOR SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY LAYOUT WORK AND SHALL CHECK THE SAME IF SO DESIRED. CHECKING OF LAYOUT OR FAILURE TO DO SO ON THE PART OF THE CONTRACT ADMINISTRATOR IN NO WAY RELIEVES THE CONTRACTOR OF FULL RESPONSIBILITY FOR CONSTRUCTION TO THE PROPER LOCATION, ALIGNMENT, AND GRADE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND REINSTATEMENT OF DISTURBED SURVEY BARS AND LAYOUT STAKES.

2.0 PLAYSPACES

- PLAYSPACES AND EQUIPMENT/STRUCTURES SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-2614-20 (CSA) CHILDREN'S PLAYGROUND EQUIPMENT AND SURFACING, LATEST REVISION.
- PLAYGROUND STRUCTURES AND EQUIPMENT SHALL BE AS SPECIFIED AND SHALL BE SUPPLIED AND INSTALLED TO THE MANUFACTURER/SUPPLIER'S LAYOUT DESIGN AND SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATION WITH THE PLAY STRUCTURE MANUFACTURER AND WILL ENSURE THAT THE PLAYSPACES ACCOMMODATE THE SELECTED STRUCTURES. REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR.
- VERIFY EXACT DIMENSIONS OF THE PLAY EQUIPMENT AND PROTECTIVE SURFACING AREAS PRIOR TO INSTALLATION OF THE PLAYSPACE CURB.
- ADJUST CURB ALIGNMENT WHERE REQUIRED TO ENSURE THAT THE PLAYGROUND ENCLOSURE ACCOMMODATES ALL PLAY EQUIPMENT 'FALL PROTECTION ZONES' WITHIN THE SAFETY SURFACE AREA, FOLLOWING APPROVAL BY THE CONTRACT ADMINISTRATOR.

- CONTRACTOR IS RESPONSIBLE TO COORDINATE SUB-DRAIN INSTALLATION SUCH THAT NO CONFLICTS OCCUR WITH PLAYGROUND FOOTINGS.
- CONTRACTOR SHALL ENSURE THAT CROWNED SUB-GRADE IS MAINTAINED FOLLOWING THE INSTALLATION OF THE SUB-DRAIN SYSTEM AND PLAYGROUND EQUIPMENT FOOTINGS. IF TRENCHING AND FOOTING EXCAVATIONS HAVE COMPROMISED THE SPECIFIED SUB-GRADE DRAINAGE, THE CONTRACTOR IS RESPONSIBLE TO RE-INSTALL THE SUB-GRADE DRAINAGE LAYER AND SAFETY SURFACE.
- GAIN APPROVAL FROM THE CONTRACT ADMINISTRATOR OF PREPARED SUB-GRADE, SUB-DRAINAGE LAYOUT, LINES AND LEVELS PRIOR TO DRAINAGE SYSTEM INSTALLATION.
- PLAYGROUND STRUCTURES, CURB, DRAINAGE LAYER, AND SAFETY SURFACING SHALL BE IN ACCORDANCE WITH APPLICABLE DETAILS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS.

SITE STATISTICS		
TOWN OF COLLINGWOOD	SIMCOE COUNTY	
PROPOSED USE	PARKING	
RECREATION - PUBLIC PARK	STANDARD PARKING SPACES 34	
LOT PROVISIONS	REQUIRED	PROVIDED
MINIMUM LOT AREA (m ²)	N/A	12,669.12
MINIMUM FRONT YARD (m)	N/A	97.60
MINIMUM REAR YARD (m)	7.5	40.50
MINIMUM INTERIOR SIDE YARD (m)	7.5	60.75
MINIMUM EXTERIOR SIDE YARD (m)	7.5	22.50
MAXIMUM BUILDING HEIGHT (m)	12.0	4.4
MAXIMUM LOT COVERAGE	N/A	2.0%
MINIMUM LANDSCAPED OPEN SPACE	20%	88.7%
	ACCESSIBLE PARKING SPACE - TYPE A 2	
	TOTAL PARKING SPACES 36	
	STANDARD PARKING STALL SIZE 3.00m x 6.00m = 18.00 m ²	
	ACCESSIBLE PARKING STALL SIZE 4.90m x 6.00m = 29.40 m ² (INCLUDES 1.5m WIDE PAINTED ACCESS AISLE)	
	BICYCLE PARKING	
	BICYCLE PARKING	55 SPACES



KEY PLAN
31 DEY DRIVE, COLLINGWOOD ON NTS

LEGEND

- PROPERTY BOUNDARY
- MINIMUM BUILDING SETBACK
- EXISTING VEGETATION TO BE RETAINED AND PROTECTED
- HYD
- LS
- TS
-
-
- EXISTING UNDERGROUND SERVICES
- POWER PEDESTAL - SEE ELEC. DWGS
- LIGHT STANDARD - SEE ELEC. DWGS
- UNDERGROUND SERVICES - SEE ENG. DWGS
- SWALE
- EXISTING CONTOUR
- 223.5
- 223.5
- LIMIT OF SOD/SEED
- EXISTING TIMBER FENCE
- EXISTING CHAIN LINK FENCE
- CHAIN LINK FENCE
- PICKLEBALL DIVIDER FENCE
- ACOUSTIC FENCE
- EQUESTRIAN FENCE
- SIGN
- CURB RAMP
- PICNIC TABLE
- BACKLESS BENCH
- BENCH
- BIKE RACK
- CONCRETE RETAINING WALL
- ARMOURSTONE WALL
- CONCRETE PAVING
- ASPHALT & ACRYLIC COURT SURFACE
- TOPSOIL & SOD
- TOPSOIL & SEED
- EPDM RUBBER SAFETY SURFACING
- SAND PLAY

- TOPOGRAPHIC SURVEY PROVIDED BY TATHAM ENGINEERING LTD. (2022)
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NO.	REVISIONS	DATE	INITIAL
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1.	ISSUED FOR SITE PLAN APPROVAL	APR. 9/25	DW

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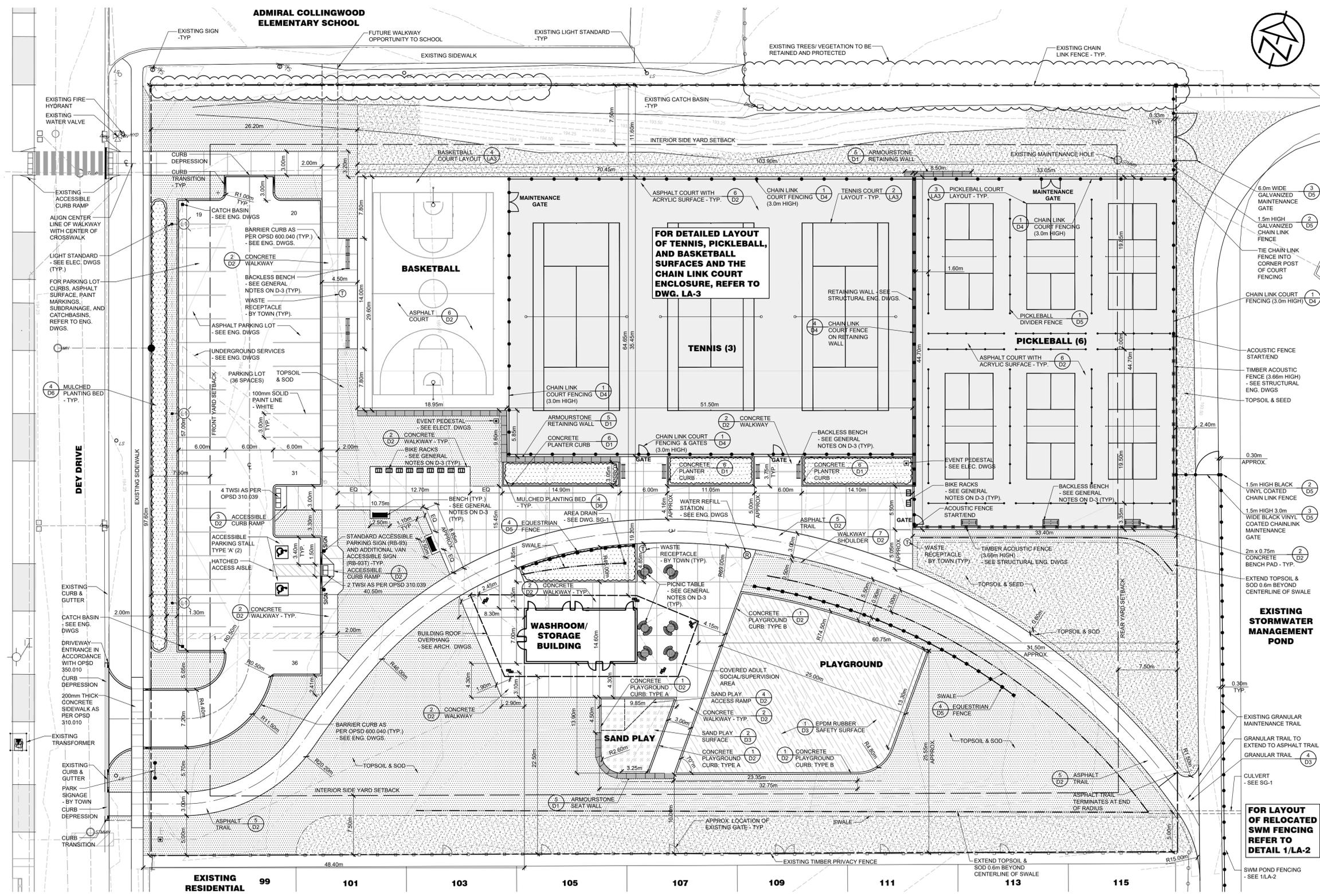
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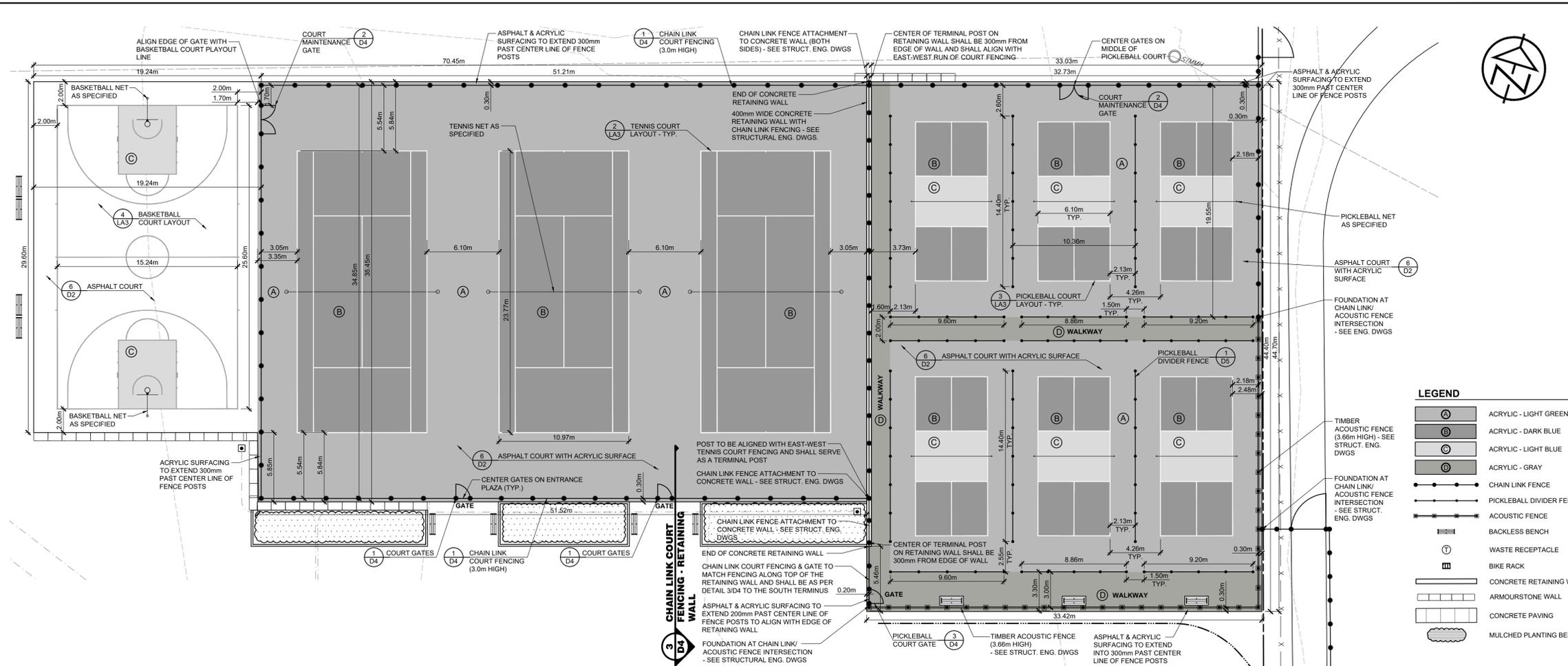
WILSON-SHEFFIELD PARK & WASHROOM BUILDING TOWN OF COLLINGWOOD

WILSON-SHEFFIELD PARK & WASHROOM BUILDING TOWN OF COLLINGWOOD

SITE PLAN

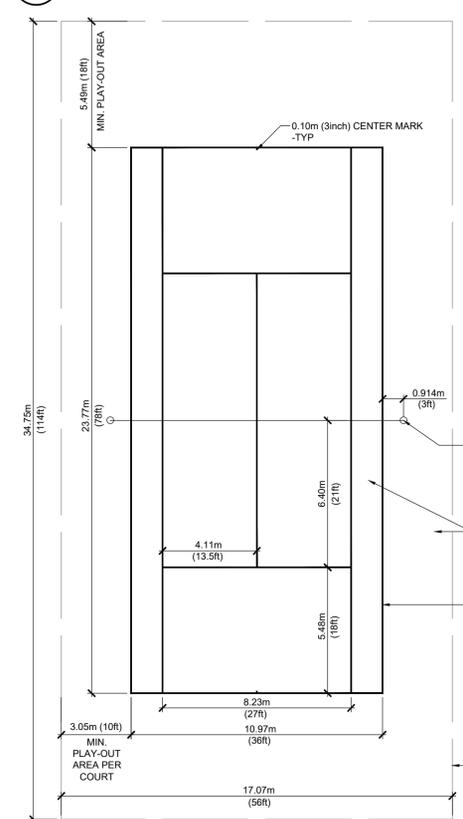
SCALE: 1:250	JOB NO. ET116005-02
DESIGN: DW	LA-1
DRAWN: GEC/AAL	
CHECKED: DW/AB	
DATE: FEB. 5, 2025	DWG.





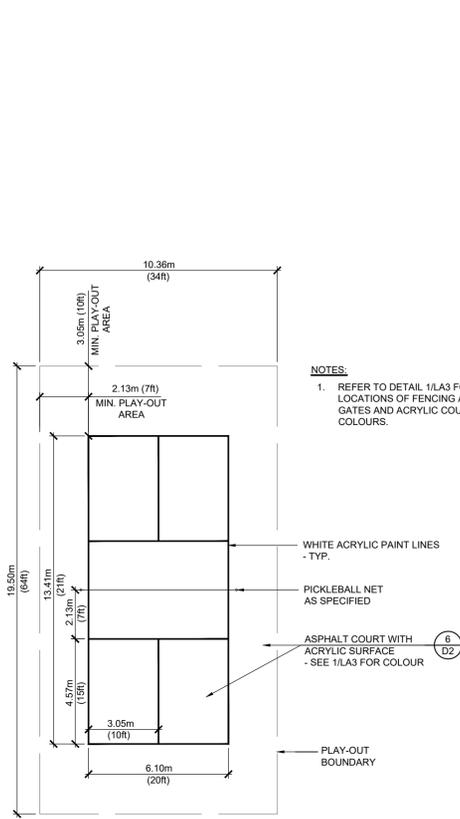
1 COURT ENCLOSURE & SURFACE LAYOUT

1:200



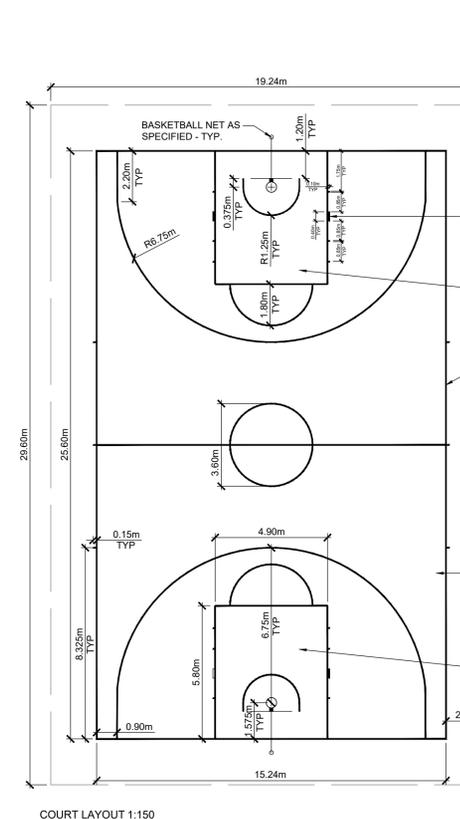
2 TENNIS COURT LAYOUT

1:150



3 PICKLEBALL COURT LAYOUT

1:150



4 BASKETBALL COURT LAYOUT

AS SHOWN

1. TOPOGRAPHIC SURVEY PROVIDED BY TATHAM ENGINEERING LTD. (2022)
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Tel. (705) 445-0422 Fax. (705) 444-2327
e-mail: inquiry@envision-tatham.com

APPROVED

WILSON-SHEFFIELD PARK & WASHROOM BUILDING
TOWN OF COLLINGWOOD

DETAILED LAYOUT PLANS

SCALE: AS SHOWN	JOB NO. ET116005-02
DESIGN: DW	LA-3
DRAWN: GEC/AAL	
CHECKED: DW/AB	
DATE: FEB. 5, 2025	
	DWG.

GENERAL NOTES

1.0 EXCAVATION, EARTHWORKS & GRADING

- ALL EARTHWORKS AND ROUGH GRADING SHALL BE IN ACCORDANCE WITH OPSS MUNI 206, UNLESS OTHERWISE SPECIFIED.
- STRIP TOP LAYER OF NATIVE SUBGRADE TO REMOVE ALL ESTABLISHED WEEDS, ROOTS, AND ORGANIC MATERIAL, STONES/BOULDERS, AND OTHER DELETERIOUS MATERIAL WITHIN THE LIMITS OF WORK AND DISPOSE OFF-SITE IN APPROVED LOCATION.
- EXCAVATE, CUT, FILL, SHAPE AND ROUGH GRADE NATIVE ON-SITE SUBGRADE MATERIAL AS REQUIRED TO ACHIEVE SPECIFIED COMPACTED SUB-GRADE ELEVATIONS.
- DISPOSE OF ALL SURPLUS NATIVE SUBSOIL AND UNSUITABLE OR DELETERIOUS MATERIAL OFF-SITE IN APPROVED LOCATION IN STRICT ACCORDANCE WITH OREG. 40819, MECP MANAGEMENT OF EXCESS SOIL - A GUIDE FOR BEST MANAGEMENT PRACTICES. THE CONTRACTOR SHALL CONFIRM THE RECEIVING PROPERTY AT LEAST 2 WEEKS PRIOR TO REMOVING ANY FILL FROM THE SITE AND PROVIDE THE REQUIRED DOCUMENTATION.
- ROUGH GRADE TO LEVELS, PROFILES, AND CONTOURS ALLOWING FOR SPECIFIED DEPTHS OF SURFACE TREATMENTS AND GRANULAR BASE MATERIALS.
- ALL GRADING SHALL SMOOTHLY TRANSITION TO MATCH EXISTING GRADES AND DITCHES AND SWALES SHALL HAVE SMOOTH AND UNIFORM GRADIENT TRANSITIONS AND DRAIN IN THE SPECIFIED DIRECTION.
- WHEN BOULDERS ARE ENCOUNTERED IN THE EXCAVATION, THE BOULDERS SHALL BE REMOVED WHEN DIRECTED BY THE CONTRACT ADMINISTRATOR AND ANY RESULTING CAVITIES SHALL BE BACKFILLED WITH APPROVED COMPACTED MATERIAL.
- SLOPE ROUGH GRADE AWAY FROM EXISTING FEATURES AND GRADE SLOPES TO A MAXIMUM OF 3:1, UNLESS OTHERWISE SPECIFIED.
- PRIOR TO PLACING FILL OVER EXISTING GROUND, SCARIFY SURFACE TO DEPTH OF 150MM, MAINTAIN FILL AND EXISTING SURFACE AT APPROXIMATELY SAME MOISTURE CONTENT TO FACILITATE BONDING.
- PLACE FILL MATERIAL IN PROGRESSIVE MAXIMUM 200mm UNIFORM LIFTS (LOOSE MATERIAL DEPTH). EACH LAYER SHALL BE COMPACTED BEFORE THE SUCCEEDING LAYER IS PLACED.
- ENSURE POSITIVE DRAINAGE AT ALL TIMES THROUGHOUT THE SITE AND NOTIFY THE CONTRACT ADMINISTRATOR IMMEDIATELY OF PROBLEM OR PONDING AREAS.
- COMPACT SUB-GRADE TO THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMD) AS SPECIFIED IN THE APPLICABLE DETAILS, UNLESS OTHERWISE NOTED.
- TOLERANCES: ALL EARTH GRADE SURFACES SHALL ON COMPLETION BE SHAPED TO THE GRADES AND CROSS SECTIONS SPECIFIED WITHIN THE FOLLOWING VERTICAL TOLERANCES OF ESTABLISHED GRADE OVER A 3m STRAIGHTEDGE (NOT BE UNIFORMLY HIGH OR LOW):
 - GENERAL LANDSCAPE AREAS, EMBANKMENTS, DITCHES AND SWALES: +30mm
 - BUILDING PAD, RETAINING WALL, AND STRUCTURE FOOTING SUB-GRADE: +/- 25mm
 - CONCRETE, ASPHALT AND GRANULAR SUB-GRADE SURFACES: +/- 25mm
 - PLAYGROUND SUB-GRADE SURFACE: +/- 10mm
- DO NOT DISTURB SOIL WITHIN DRIPLINE OF TREES AND SHRUBS TO REMAIN, UNLESS OTHERWISE INDICATED ON THE CONTRACT DRAWINGS.
- FINISHED ROUGH-GRADE SURFACE TO BE FREE OF DEBRIS OR STONES LARGER THAN 50MM DIAMETER.
- IF IMPORTED FILL IS REQUIRED, IT SHALL BE SELECT SUBGRADE MATERIAL (SSM) AS PER OPSS MUNI 1010, FROM A LICENSED PVT. PROVIDE SOURCE AND SAMPLE OF IMPORTED SSM FILL AND OBTAIN APPROVAL FROM THE CONTRACT ADMINISTRATOR AND TOWN PRIOR TO DELIVERY.

LEGEND

	PROPERTY BOUNDARY
	MINIMUM BUILDING SETBACK
	EXISTING HYDRO TRANSFORMER
	EXISTING FIRE HYDRANT
	EXISTING LIGHT STANDARD
	EXISTING SIGN
	EXISTING CATCHBASIN
	EXISTING MAINTENANCE HOLE
	EXISTING UNDERGROUND SERVICES
	SWALE
	EXISTING ELEVATION
	ELEVATION
	TOP OF WALL ELEVATION
	BOTTOM OF WALL ELEVATION
	TOP OF CURB ELEVATION
	BOTTOM OF CURB ELEVATION
	EXISTING CONTOUR
	CONTOUR
	EXISTING TIMBER PRIVACY FENCE
	EXISTING CHAIN LINK FENCE
	CHAIN LINK FENCE
	PICKLEBALL DIVIDER FENCE
	ACOUSTIC FENCE
	EQUESTRIAN FENCE
	SIGN
	CURB RAMP
	RETAINING WALL
	ARMOURSTONE WALL
	CONCRETE PAVING

- TOPOGRAPHIC SURVEY PROVIDED BY TATHAM ENGINEERING LTD. (2022).
- ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE INDICATED.

CONTRACT DRAWINGS
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2.	ISSUED FOR TENDER	APR. 23/25	DW
1.	ISSUED FOR SITE PLAN APPROVAL	APR. 9/25	DW
NO.	REVISIONS	DATE	INITIAL

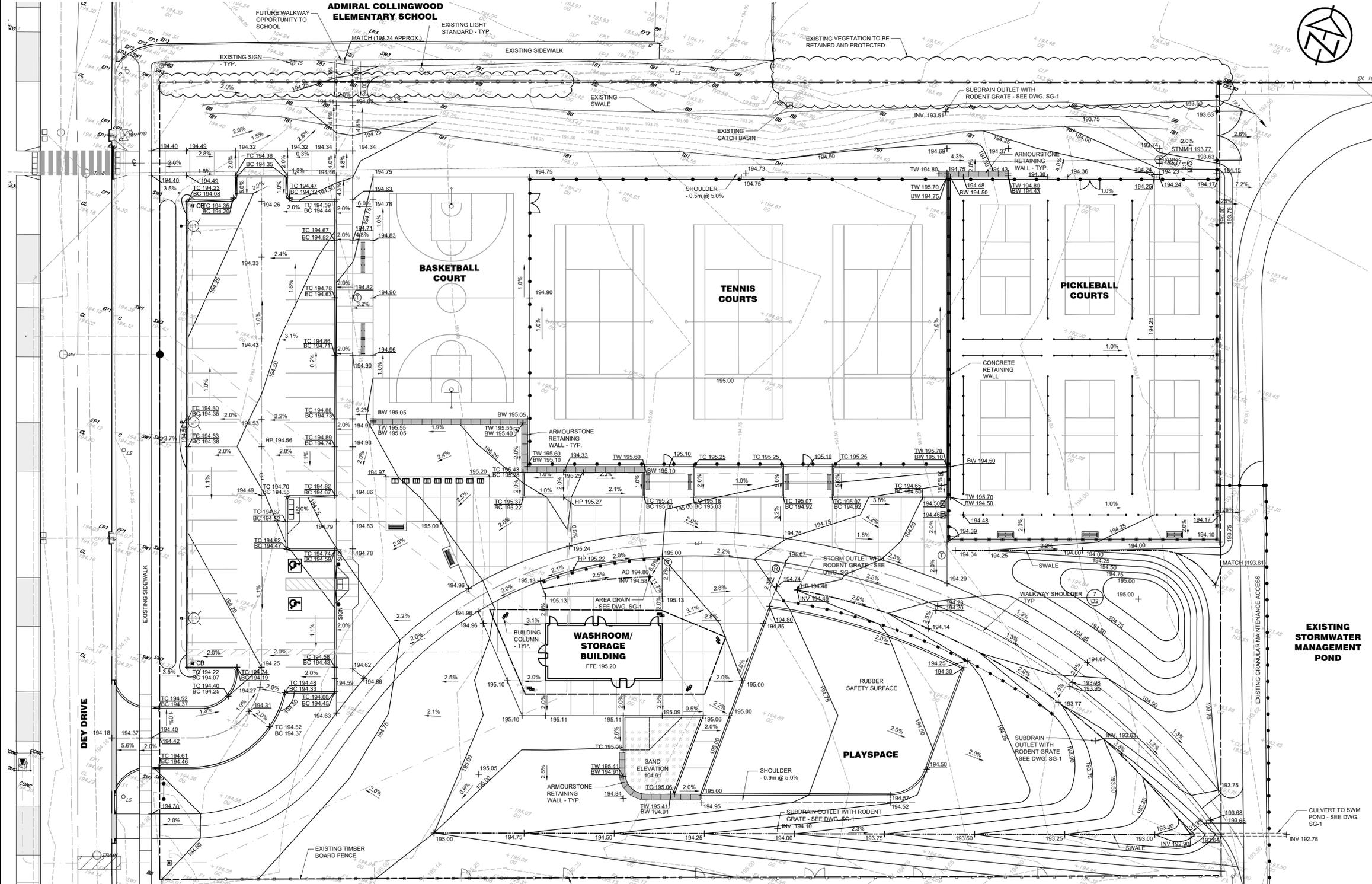
ENVISIONTATHAM
 115 Sandford Fleming Drive, Suite 200, Collingwood, ON, L9Y 5A6
 Tel. (705) 445-0422 Fax. (705) 444-2327
 e-mail: inquiry@envision-tatham.com

APPROVED

WILSON-SHEFFIELD PARK & WASHROOM BUILDING TOWN OF COLLINGWOOD

GRADING PLAN

SCALE: 1:250	JOB NO. ET116005-02
DESIGN: DW/AB	GR-1
DRAWN: GEC/AAL	
CHECKED: DW/AB	
DATE: FEB. 5, 2025	
	DWG.



EXISTING STORMWATER MANAGEMENT POND

CULVERT TO SWM POND - SEE DWG. SG-1

99	101	103	105	107	109	111	113	115
				APPROX. LOCATION OF EXISTING RESIDENTIAL GATE - TYP.				EXISTING CHAIN LINK FENCE - TYP.

PLANT LIST						
KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	QTY.
Deciduous Trees						
Af	Acer x freemanii 'Jeffersred'	Autumn Blaze Maple	50mm cal.	W.B.		6
As	Acer saccharum	Sugar Maple	50mm cal.	W.B.		7
Co	Celtis occidentalis	Hackberry	50mm cal.	W.B.		5
Gd	Gymnocladus dioica 'Espresso-JFS'	Espresso Kentucky Coffee Tree	50mm cal.	W.B.		7
Po	Platanus occidentalis	American Sycamore	50mm cal.	W.B.		2
Ta	Tilia americana	Basswood	50mm cal.	W.B.		4
Um	Ulmus davidiana var. japonica 'Morton'	Accolade Elm	50mm cal.	W.B.		7
Total Deciduous Trees						38

KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	QTY.
Coniferous Trees						
Pg	Picea glauca	White Spruce	200cm	W.B.		4
Ps	Pinus strobus	White Pine	200cm	W.B.		5
Li	Larix laricina	American Larch	200cm	W.B.		9
To	Thuja occidentalis	Eastern White Cedar	200cm	W.B.		28
Total Coniferous Trees						46
Deciduous Shrubs						
Am	Aronia x 'UCONNAM165'	Low Scape Mound Chokeberry	3 gal.	0.60m o.c.		53
Sb	Spiraea betulifolia 'Tor Gold'	Glow Girl Birchleaf Spirea	3 gal.	0.90m o.c.		86
Sm	Syringa meyeri 'Palibin'	Dwarf Korean Lilac	3 gal.	1.00m o.c.		114
Total Deciduous Shrubs						253

KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING	QTY.
Ornamental Grasses & Perennials						
ep	Echinacea purpurea	Purple Coneflower	1 gal.	0.50m o.c.		73
pv	Panicum virgatum	Switch Grass	1 gal.	1.00m o.c.		8
rf	Rudbeckia fulgida 'Goldsturm'	Black-Eyed Susan	1 gal.	0.50m o.c.		52
Total Ornamental Grasses & Perennials						133

GENERAL NOTES

- 1.0 LAYOUT AND PLANT SUPPLY
 1. DEPICTED ON THIS PLAN ARE THE SPECIES AND THE APPROXIMATE LOCATION OF THE TREES. THE EXACT LOCATION OF THE TREES WILL BE STAKED ON SITE BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
2. ALL PLANTS SHALL BE SUPPLIED AS SPECIFIED IN THE 'PLANT LIST'. SUBSTITUTIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
3. CONTRACTOR IS RESPONSIBLE FOR ALL SERVICE AND UTILITY LOCATES.
4. TREE PITS OR PLANTING BEDS LOCATED WITHIN 1 METRE OF UNDERGROUND UTILITIES ARE TO BE HAND DUG.
5. FOR PLANTING DETAILS, MATERIALS, AND NOTES. SEE DRAWING D-6.

LEGEND	
	PROPERTY BOUNDARY
	EXISTING VEGETATION TO BE RETAINED AND PROTECTED
	EXISTING HYDRO TRANSFORMER
	EXISTING FIRE HYDRANT
	EXISTING LIGHT STANDARD
	EXISTING SIGN
	EXISTING CATCHBASIN
	EXISTING MAINTENANCE HOLE
	EXISTING UNDERGROUND SERVICES
	POWER PEDESTAL - SEE ELEC. DWGS
	LIGHT STANDARD - SEE ELEC. DWGS
	UNDERGROUND SERVICES - SEE ENG. DWGS
	SWALE
	LIMIT OF SOD/SEED
	EXISTING TIMBER FENCE
	EXISTING CHAIN LINK FENCE
	CHAIN LINK FENCE
	PICKLEBALL DIVIDER FENCE
	ACOUSTIC FENCE
	EQUESTRIAN FENCE
	CONCRETE RETAINING WALL
	ARMOURSTONE WALL
	CONCRETE PAVING
	ASPHALT & ACRYLIC COURT SURFACE
	DECIDUOUS TREE
	CONIFEROUS TREE
	DECIDUOUS SHRUB
	PERENNIALS & GROUNDCOVERS
	SPECIES
	QUANTITY
	TOPSOIL & SOD
	TOPSOIL & SEED

1. TOPOGRAPHIC SURVEY PROVIDED BY TATHAM ENGINEERING LTD. (2022).

2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE INDICATED.

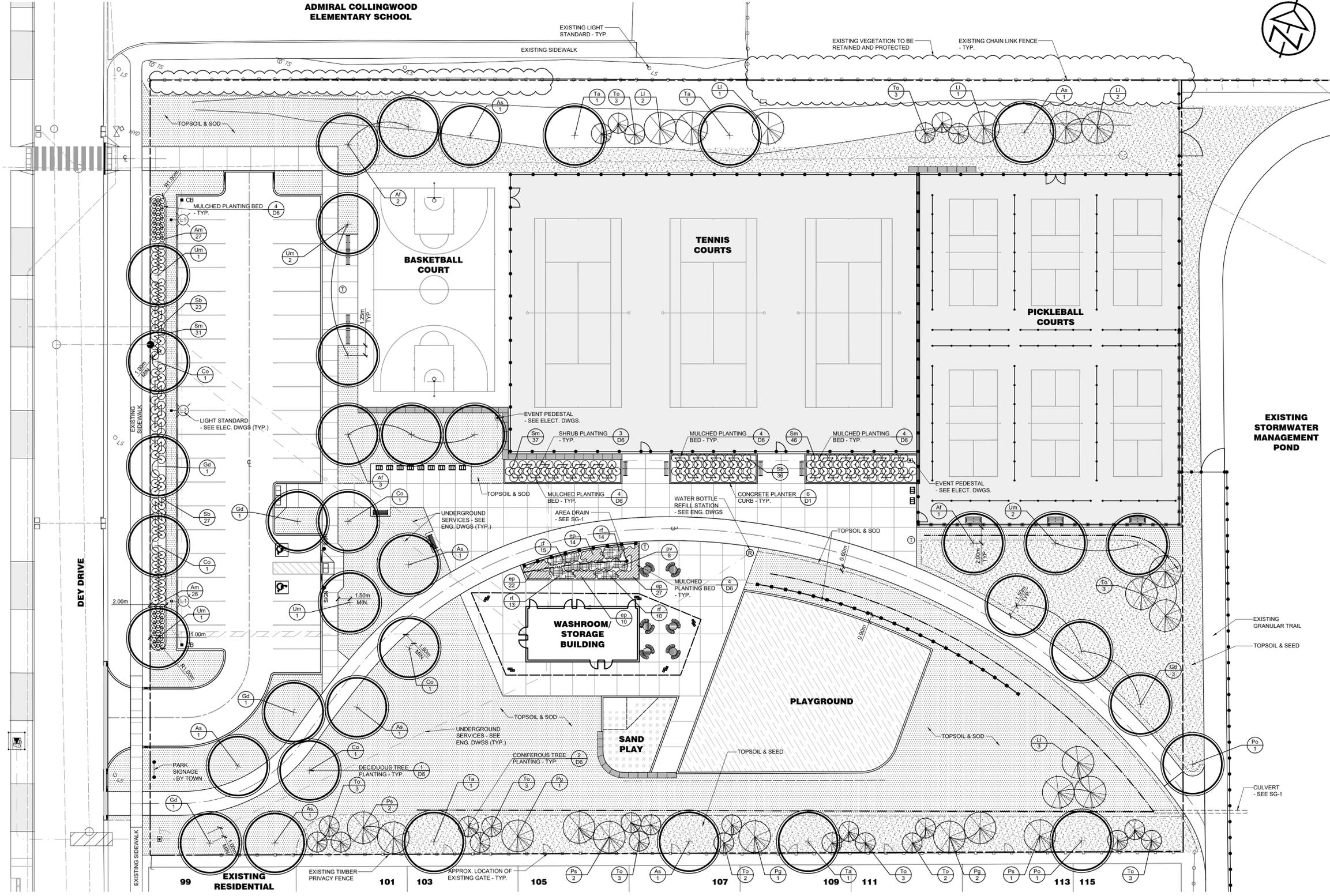
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NO.	REVISIONS	DATE	INITIAL



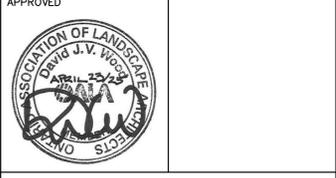
EXISTING STORMWATER MANAGEMENT POND

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ENVISIONTATHAM

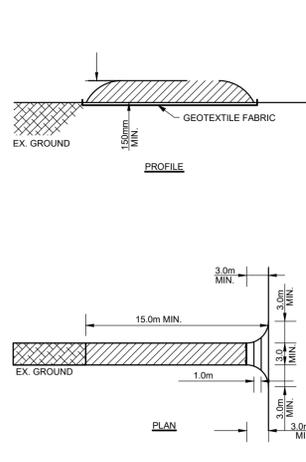
115 Sandford Fleming Drive, Suite 200, Collingwood, ON, L9Y 5A6
 Tel. (705) 445-0422 Fax. (705) 444-2327
 e-mail: inquiry@envision-tatham.com



**WILSON-SHEFFIELD
 PARK & WASHROOM
 BUILDING
 TOWN OF COLLINGWOOD**

PLANTING PLAN

SCALE: 1:250	JOB NO. ET116005-02
DESIGN: DW/SL	PP-1
DRAWN: GEC/AAL	
CHECKED: DW/AB	
DATE: FEB. 5, 2025	
	DWG.



STONE SIZE
THE STONE PAD SHALL BE A MIN. 150mm THICK. USE 50mm DIA. STONE OR RECLAIMED CONCRETE EQUIVALENT FOR FIRST 10m FROM ADJACENT ROAD & 150mm DIA. STONE FOR REMAINDER OF STONE PAD.

LENGTH
AS REQUIRED BUT NOT LESS THAN 15m (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 10m MIN. LENGTH WOULD APPLY).

WIDTH
3m MIN. BUT NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.

GEOTEXTILE FABRIC
(TERRAFIX 270R OR EQUAL) WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.

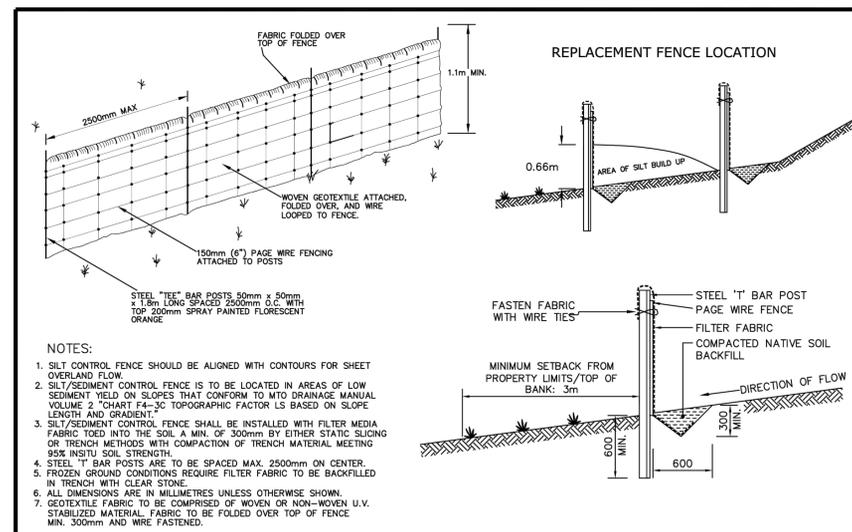
SURFACE WATER
ALL SURFACE WATER FLOWING OR DIRECTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

MAINTENANCE
THE CONTRACTOR SHALL MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR. UPON OBSERVATION OF CONTINUOUS MUD TRACKING ONTO ADJACENT STREETS, THE STONE MAT IS TO BE FULLY REPLACED.

WASHING
WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

INSPECTION AND REQUIRED MAINTENANCE AFTER EACH RAIN SHALL BE PROVIDED BY THE CONTRACTOR.

1 STONE MUD MAT

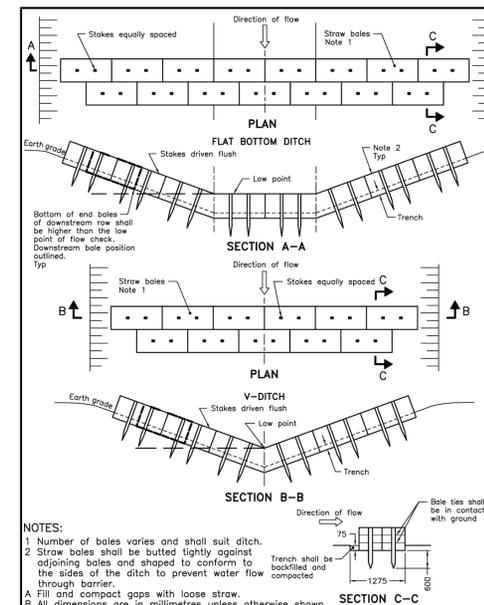


NOTES:

- SILT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
- SILT/SEDIMENT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 "CHART FA-30" TOPOGRAPHIC FACTOR LS BASED ON SLOPE LENGTH AND GRADIENT.
- SILT/SEDIMENT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TOED INTO THE SOIL A MIN. OF 300mm BY EITHER STATIC SLING OR TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% IN-SITU SOIL STRENGTH.
- STEEL 'T' BAR POSTS ARE TO BE SPACED MAX. 2500mm ON CENTER. IN TRENCH WITH CLEAR STONE.
- FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.
- GEOTEXTILE FABRIC TO BE COMPRISED OF WOVEN OR NON-WOVEN U.V. STABILIZED MATERIAL. FABRIC TO BE FOLDED OVER TOP OF FENCE MIN. 300mm AND WIRE FASTENED.

Nottawasaga Valley Conservation Authority		APPR'D:	DATE: 03.03.06
TYPICAL DETAIL OF SILT/SEDIMENT FENCE		DRAWN: A.S.C	SCALE: NTS
NO.	REVISION	APPR'D	DATE
			BSD-23 DRAFT

2 HEAVY DUTY SILT FENCE



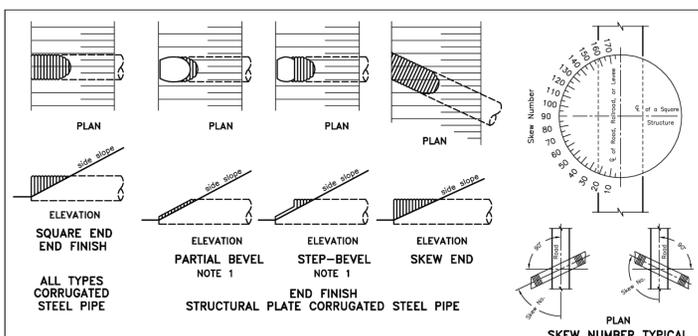
NOTES:

- Number of bales varies and shall suit ditch.
- Straw bales shall be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.
- Fill and compact gaps with loose straw.
- All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2021	Rev 3
STRAW BALE FLOW CHECK DAM			
			OPSD 219.180

3 STRAW BALE FLOW CHECK DAM

- NOTES:**
- STONE SHALL BE SQUARE CUT QUARRIED LIMESTONE, SPLIT FACE, WITH UNIFORM DARK GREY COLOUR, EXHIBITING SPLIT OR NATURALLY WEATHERED FACES, WITH REASONABLY FLAT BOTTOM, TOP, AND SIDES.
 - GRANULAR BASE SHALL BE GRANULAR 'A' IN ACCORDANCE WITH OPSS MUNI 314 AND OPSS MUNI 1010, COMPACTED TO THE SPECIFIED STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
 - STAKE ALL WALL LOCATIONS AND OBTAIN APPROVAL PRIOR TO EXCAVATION AND PLACEMENT.
 - EXCAVATE NATIVE SOIL/ORGANICS, DISPOSE OF SURPLUS MATERIAL OFF-SITE, AND COMPACT SUBGRADE TO SPECIFIED SPMDD.
 - STONE BLOCKS SHALL BE 600mm TALL, BE APPROXIMATELY 600mm WIDE, AND MAY VARY IN LENGTH BETWEEN 750-1200mm.
 - STONE TOLERANCES ARE AS FOLLOWS: WIDTH +/- 100mm, LENGTH +/- 200mm, HEIGHT +/- 50mm.
 - STONE BLOCKS SHALL SHOW NO EXCESSIVE DRILL OR MACHINE MARKS AND SHALL BE PLACED WITH BEST FACE OUTWARD, SO THAT THE WALL PRESENTS AN INTEGRATED, UNIFORM APPEARANCE.
 - EACH STONE SHALL BE FIRMLY SET ON THE GRANULAR BASE SO THAT UNITS EXHIBIT NO TENDENCY TO ROCK OR SLIDE WHEN LATERAL FORCE IS APPLIED.
 - STONE BLOCKS SHALL BE MACHINE PLACED BY USE OF BELTS AND CHAINS OR APPROVED ALTERNATIVE METHOD. STONE SHALL NOT BE DUMPED OR PUSHED INTO PLACE.
 - CUT STONE ON-SITE TO ACHIEVE TIGHT SQUARE INTERFACE BETWEEN STONES AND TO ACHIEVE THE SPECIFIED TOLERANCES, WHERE REQUIRED.
 - GAPS, CREVICES, AND OPENINGS BETWEEN STONES SHALL BE SMALL ENOUGH SO THAT BACKFILL MATERIAL CANNOT PASS THROUGH AND SHALL NOT EXCEED 25mm.
 - GEO-TEXTILE FILTER FABRIC SHALL BE TERRAFIX 270R OR APPROVED EQUAL IN ACCORDANCE WITH OPSS MUNI 1860.
 - BACKFILLING SHALL BE COMPLETE AT THE END OF EACH WORKING DAY.

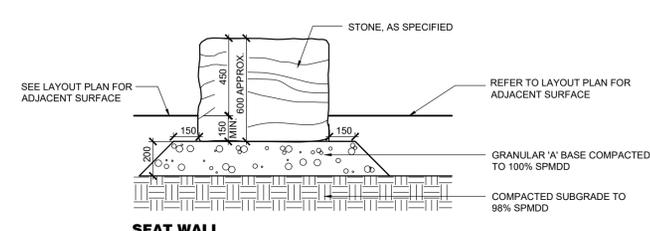
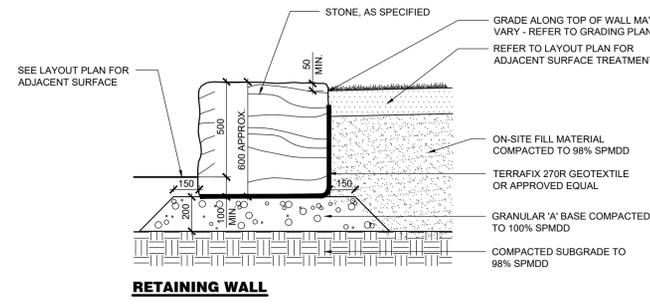


NOTES:

- For a partial bevel or a step-bevel cut end finish, this OPSD shall be read in conjunction with OPSD 801.030.
- A skew end cut end finish shall not be combined with a partial bevel or a step-bevel cut end finish.
- Square end, partial bevel, or step-bevel cut end finish may be used on a culvert installed on a skew between skew numbers 60 and 120.
- A skew end cut end finish may be used on a culvert installed on a skew between skew numbers 50 and 130.
- Reinforcement of pipe ends or contour grading of embankment slope shall be as specified.
- Slope protection shall be as specified.
- All dimensions are in millimetres unless otherwise shown.

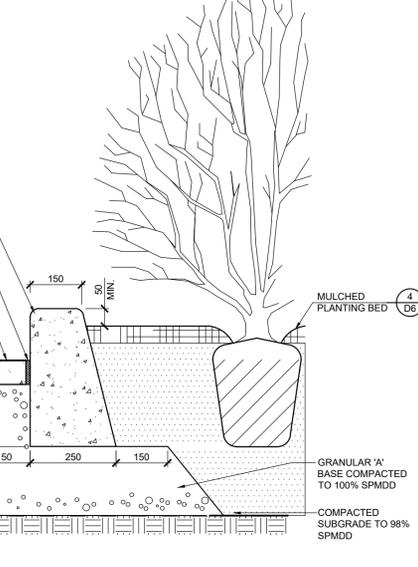
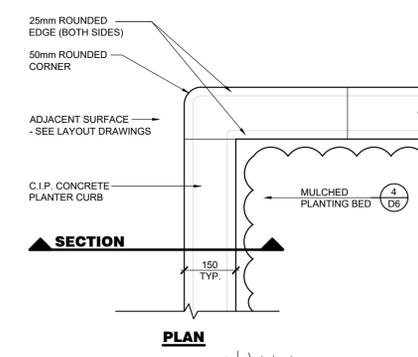
ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2017	Rev 3
CUT END FINISH CIRCULAR PIPE AND PIPE-ARCH CORRUGATED STEEL PIPE			
			OPSD 801.010

4 CULVERT



5 ARMOURSTONE RETAINING WALL/ SEAT WALL (<1.0m)

- NOTES:**
- CIP CONCRETE PLANTER CURBS SHALL BE IN ACCORDANCE WITH OPSS MUNI 353 AND OPSS MUNI 1350.
 - GRANULAR BASE SHALL BE GRANULAR 'A' IN ACCORDANCE WITH OPSS MUNI 314 AND OPSS MUNI 1010.
 - CONCRETE TO BE 32MPa COMPRESSIVE STRENGTH, C-2 EXPOSURE AT 28 DAYS WITH 7% +/- 1.5% AIR ENTRAINMENT, MEASURED AT POINT OF PLACEMENT IN ACCORDANCE WITH CSA-A23.1.
 - FINISH: LIGHT BROOM FINISH, PERPENDICULAR TO THE LONGITUDINAL CURB ALIGNMENT.
 - CONTROL JOINTS: SAW CUT TO 1/4 DEPTH OF CURB THICKNESS AND SPACED MAXIMUM 2.0m O.C.
 - ALL CONTROL JOINTS SHALL BE MARKED FOR APPROVAL PRIOR TO SAW-CUTTING.
 - SAW CUT CONTROL JOINTS SHALL BE BY WET DIAMOND BLADE, COMMENCING 8 TO 24 HOURS AFTER CONCRETE PLACEMENT, AS SOON AS THE CONCRETE SURFACE HAS HARDENED SUFFICIENTLY TO RESIST DISLOGGING AGGREGATE WHILE CUTTING.



6 CONCRETE PLANTER CURB

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

CONTRACTOR DRAWINGS
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NO.	REVISIONS	DATE	INITIAL
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1.	ISSUED FOR SITE PLAN APPROVAL	APR. 9/25	DW

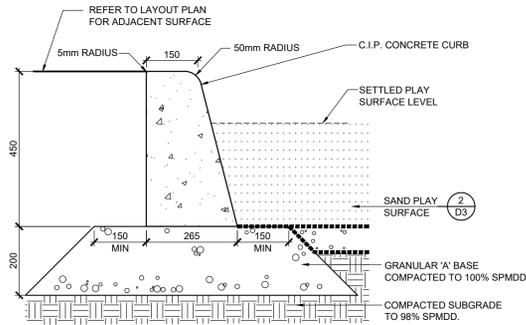
ENVISIONTATHAM
115 Sandford Fleming Drive, Suite 200, Collingwood, ON, L9Y 5A6
Tel. (705) 445-0422 Fax. (705) 444-2327
e-mail: inquiry@envision-tatham.com

APPROVED

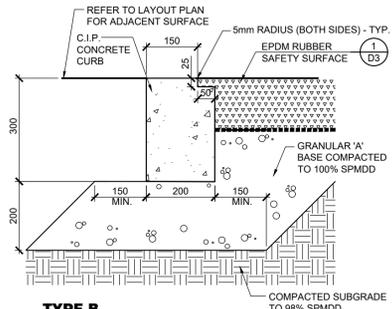
WILSON-SHEFFIELD PARK & WASHROOM BUILDING
TOWN OF COLLINGWOOD

SITE DETAILS

SCALE: AS SHOWN	JOB NO. ET116005-02
DESIGN: DW	D-1
DRAWN: GEC/AAL/KP	
CHECKED: DW/AB	
DATE: FEB. 5, 2025	
	DWG.



TYPE A

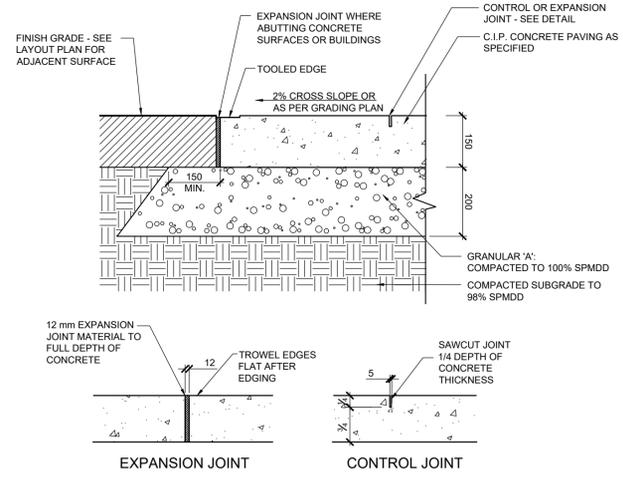


TYPE B

1 D2 CONCRETE PLAYGROUND CURB

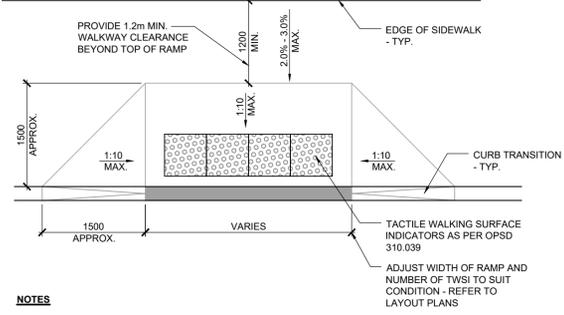
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- NOTES**
1. CONCRETE PAVING SHALL BE IN ACCORDANCE OPSS MUNI 351.
 2. GRANULAR BASE SHALL BE GRANULAR 'A' IN ACCORDANCE WITH OPSS MUNI 314 AND OPSS MUNI 1010.
 3. CONCRETE TO BE 32MPa COMPRESSIVE STRENGTH, C-2 EXPOSURE AT 28 DAYS WITH 5% TO 7% AIR ENTRAINMENT, MEASURED AT POINT OF PLACEMENT IN ACCORDANCE WITH CSA-A23-1.
 4. EXPANSION JOINTS: FULL DEPTH EXPANSION BOARD WITH JOINT EDGES TROWELED FLAT TO MATCH PANEL GRADE. RAISED TOOLED JOINT EDGES WILL NOT BE ACCEPTED. EXPANSION JOINTS TO BE 6.0m O.C OR AS SHOWN ON THE LAYOUT PLANS.
 5. EXPANSION JOINTS SHALL ALSO BE PROVIDED WHERE CONCRETE ABUTS ADJACENT CONCRETE SURFACES, CURBS, AND BUILDING FOUNDATIONS.
 6. CONTROL JOINTS: SAW-CUT TO 1/4 DEPTH OF SLAB AND SPACE MAXIMUM 2.0m O.C. OR AS SHOWN ON THE LAYOUT PLANS.
 7. SAW CUT CONTROL JOINTS SHALL BE BY WET DIAMOND BLADE, COMMENCING 8 TO 24 HOURS AFTER CONCRETE PLACEMENT, AS SOON AS THE CONCRETE SURFACE HAS HARDENED SUFFICIENTLY TO RESIST DISLODGING AGGREGATE WHILE CUTTING.
 8. ALL CONTROL AND EXPANSION JOINTS SHALL BE MARKED FOR APPROVAL PRIOR TO POURING CONCRETE OR SAW-CUTTING.
 9. FINISH TO BE LIGHT BROOM FINISH, PERPENDICULAR TO GENERAL DIRECTION OF PEDESTRIAN TRAVEL.
 10. TOOLED EDGING: OUTSIDE EDGES OF CONCRETE SLAB SHALL BE TOOLED TO PACK AGGREGATE USING A STANDARD CONCRETE EDGING TOOL THAT PRODUCES A 5mm ROUNDED EDGE AND A SMOOTH, HORIZONTAL SURFACE WITH A MAXIMUM WIDTH OF 50mm AND DEPRESSED 1mm MAXIMUM BELOW THE ADJACENT SURFACE AS PER OPSS MUNI 351.



2 D2 CONCRETE WALKWAY

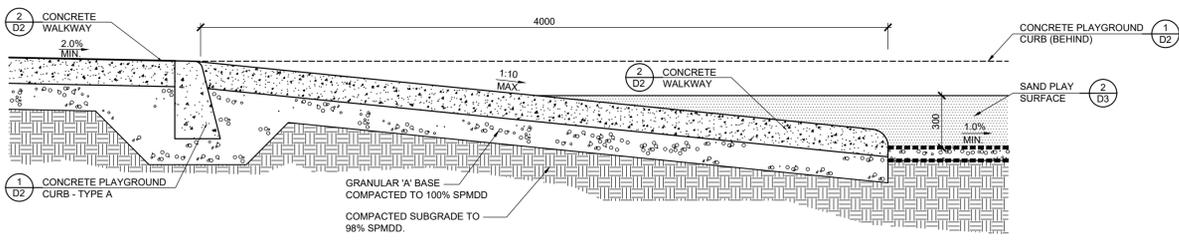
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- NOTES**
1. CURB RAMP LAYOUTS SHALL CONFORM WITH OPSD 310.030 AND AODA DESIGN OF PUBLIC SPACE STANDARDS.
 2. TWSI SHALL BE CAST IRON DURALAST DETECTABLE WARNING PLATES, WITH NATURAL FINISH BY EJ, 519-448-3395 OR APPROVED EQUAL.
 3. ADJUST WIDTH AND NUMBER OF TWSI TO REFLECT SPECIFIC RAMP AND CURB DEPRESSION CONDITIONS AS SHOWN ON THE LAYOUT PLANS.
 4. SHOULD LAYOUT/GRADING REQUIREMENTS OR CLEARANCES NOT BE ACHIEVABLE DUE TO SITE CONDITIONS, NOTIFY THE CONTRACT ADMINISTRATOR IMMEDIATELY AND OBTAIN DIRECTION PRIOR TO PROCEEDING.

3 D2 ACCESSIBLE CURB RAMP

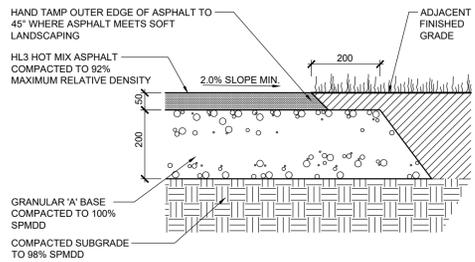
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4 D2 SANDPLAY ACCESS RAMP

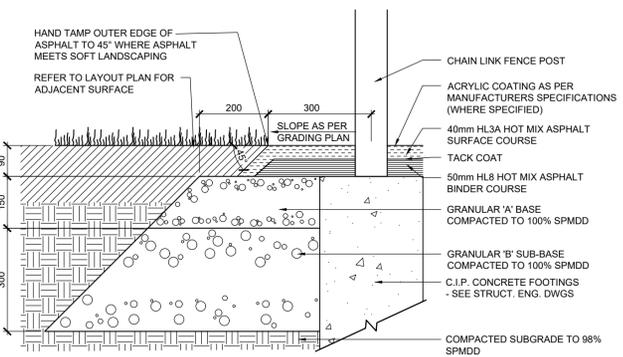
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- NOTES**
1. ASPHALT TRAIL SHALL MEET THE CLEARANCE AND LAYOUT REQUIREMENTS OF THE TOWN'S STANDARD DETAIL STD NO. 1121 - ASPHALT MULTI-USE PATHWAY, BUT SHALL BE CONSTRUCTED AS DETAILED.
 2. ASPHALT TRAIL SHALL BE HOT MIX ASPHALT (HMA) IN ACCORDANCE WITH OPSS MUNI 311.
 3. GRANULAR BASE SHALL BE GRANULAR 'A' IN ACCORDANCE WITH OPSS MUNI 314 AND OPSS MUNI 1010.
 4. APPLY TACK COAT AT STRUCTURES SUCH AS MANHOLES, CURBS, OR GUTTERS PRIOR TO PLACING ADJACENT PAVEMENT.
 5. ROLL AND COMPACT ASPHALT CONTINUOUSLY TO DENSITY NOT LESS THAN 92% MAXIMUM RELATIVE DENSITY.
 6. DO NOT BACKFILL AGAINST ASPHALT FOR MIN. OF 48 HOURS.
 7. DIRECTION OF CROSS SLOPE SHALL BE ADJUSTED TO SUIT GRADING REQUIREMENTS.



5 D2 ASPHALT TRAIL

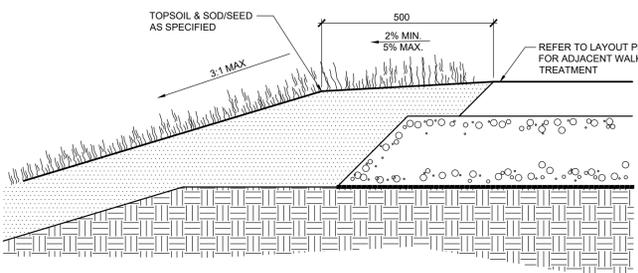
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- NOTES**
1. ASPHALT COURTS SHALL BE HOT MIX ASPHALT (HMA) IN ACCORDANCE WITH OPSS MUNI 310 AND OPSS MUNI 1150.
 2. GRANULAR A BASE AND GRANULAR B SUB-BASE SHALL BE IN ACCORDANCE WITH OPSS MUNI 314 AND OPSS MUNI 1010.
 3. CONTROL JOINTS: SAW CUT ASPHALT TO FULL DEPTH ALONG NET LINES.
 4. ROLL AND COMPACT ASPHALT CONTINUOUSLY TO DENSITY NOT LESS THAN 92% MAXIMUM RELATIVE DENSITY.
 5. DO NOT BACKFILL AGAINST ASPHALT FOR MIN. OF 48 HOURS.
 6. ALLOW NEW ASPHALT PAVING TO CURE FOR A MINIMUM OF 30 DAYS OF WARM WEATHER PRIOR TO APPLICATION OF ACRYLIC SURFACING MATERIALS OR LINE PAINTING.
 7. ACRYLIC SURFACE COATING: SURFACE PREPARATION (PATCHING MIX & CRACK FILLER), ACRYLIC RESURFACER (2 COATS MIN.), ACRYLIC COLOUR SURFACING (2 COATS MIN.), AND LINE PAINTING FOR TENNIS AND PICKLE BALL COURTS SHALL BE FLEXPAVE SYSTEM BY CALIFORNIA PRODUCTS CORP. OR LAYKOLD BY SPORT GROUP GMBH, AND INSTALLED AS PER THE MANUFACTURER'S SPECIFICATIONS.
 8. REFER TO DETAIL 1/LA3 FOR THE LAYOUT AND COLOUR ARRANGEMENTS OF THE ACRYLIC SURFACING AND COURT LINE PAINTING.

6 D2 ASPHALT COURT

1:10



7 D2 WALKWAY SHOULDER

1:10

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

CONTRACT DRAWINGS
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2.	ISSUED FOR TENDER	APR. 23/25	DW
1.	ISSUED FOR SITE PLAN APPROVAL	APR. 9/25	DW
NO.	REVISIONS	DATE	INITIAL

ENVISIONTATHAM
115 Sandford Fleming Drive, Suite 200, Collingwood, ON, L9Y 5A6
Tel. (705) 445-0422 Fax. (705) 444-2327
e-mail: inquiry@envision-tatham.com



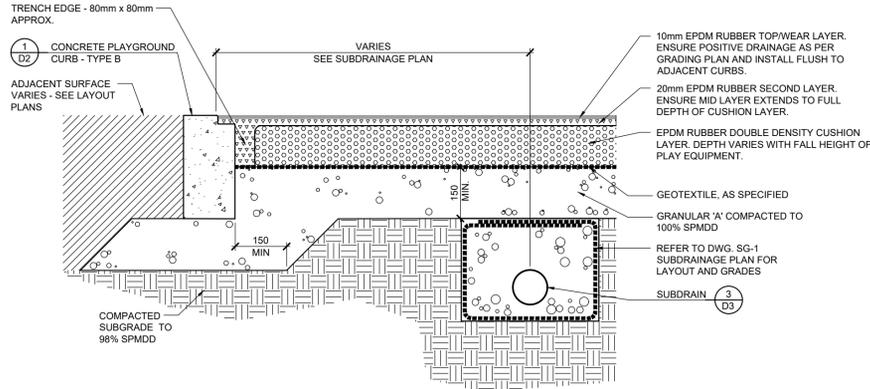
**WILSON-SHEFFIELD
PARK & WASHROOM
BUILDING
TOWN OF COLLINGWOOD**

SITE DETAILS

SCALE:	AS SHOWN	JOB NO.	ET116005-02
DESIGN:	DW	D-2	
DRAWN:	GEC/AAL/KP		
CHECKED:	DW/AB		
DATE:	FEB. 5, 2025		
		DWG.	

NOTES

1. EPDM RUBBER SAFETY SURFACE SHALL BE 'EVERPLAY IN-SITU' SUPPLIED AND INSTALLED BY EVERPLAY INSTALLATION INC. (416-410-3056) OR APPROVED EQUIVALENT, INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
2. WORK TO BE IN ACCORDANCE WITH CAN/CSA-Z614-20 (CSA) 'CHILDREN'S PLAYGROUND EQUIPMENT AND SURFACING' (LATEST REVISION).
3. ADJUST DEPTH OF EPDM RUBBER DOUBLE CUSTOM LAYER AS REQUIRED TO ACHIEVE THE REQUIRED TESTING RESULTS FOR FALL PROTECTION BASED ON THE ASSOCIATED PLAY EQUIPMENT STRUCTURES, FALL HEIGHTS, AND INTENDED AGE GROUPS AS PER THE PLAY EQUIPMENT SUPPLIER'S RECOMMENDATIONS AND CAN/CSA-Z614-20.
4. GRANULAR BASE SHALL BE GRANULAR 'A' IN ACCORDANCE WITH OPSS, MUNI 314 AND OPSS, MUNI 1010.
5. GEO-TEXTILE SHALL BE TERRAFIX 270R, OR APPROVED EQUAL, IN ACCORDANCE WITH OPSS, MUNI 1860.
6. COLOUR: GOLD (#048).
7. CONTRACTOR TO SUBMIT RUBBER SAMPLES OF ALL SPECIFIED COLOURS FOR REVIEW AND APPROVAL.
8. OBTAIN APPROVAL OF THE PREPARED SUB-GRADE, SUB-DRAINAGE, LAYOUT, LINES AND LEVELS PRIOR TO GRANULAR BASE LAYER INSTALLATION.

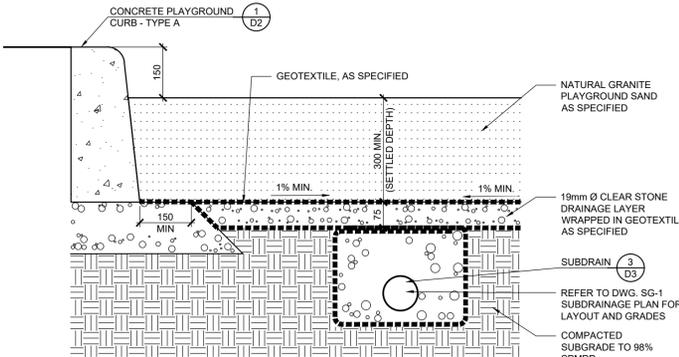


1 EPDM RUBBER SAFETY SURFACE

1:10

NOTES

1. THE SAND PLAY SURFACE SHALL BE NATURAL GRANITE PLAYGROUND SAND, SUPPLIED AND INSTALLED BY HUTCHESON SAND AND MIXES (705-789-4457), OR APPROVED EQUAL.
2. SPECIFIED THICKNESS OF SAND IS CONSIDERED A MINIMUM AND THE CONTRACTOR IS REQUIRED TO ADJUST DEPTHS TO ACCOMMODATE VARIATIONS IN SUB-GRADE AND TO ACCOUNT FOR SLOPED SUB-GRADE CONDITIONS.
3. DRAINAGE LAYER SHALL BE 19mm DIAMETER CLEAR STONE TYPE 1 OR TYPE II IN ACCORDANCE TO OPSS MUNI 1004.
4. GEO-TEXTILE FILTER FABRIC SHALL BE TERRAFIX 270R, OR APPROVED EQUAL, IN ACCORDANCE WITH OPSS, MUNI 1860.
5. GAIN APPROVAL OF THE PREPARED SUB-GRADE, SUB-DRAINAGE, LAYOUT, LINES AND LEVELS PRIOR TO GRANULAR DRAINAGE LAYER INSTALLATION.



2 SAND PLAY SURFACE

1:10

GENERAL NOTES

1.0 SITE FURNITURE

1. THE FOLLOWING SITE FURNISHINGS SHALL BE SUPPLIED AND INSTALLED BY MAGLIN SITE FURNITURE INC. 1-800-716-6506 (CONTACT: SEAN MEALAND) OR APPROVED EQUAL:

BACKLESS BENCH

MODEL NO.: MLB970-B-D3 900 SERIES, 70IN L, CAST AL ENDS, THERMAL ASH SEAT
METAL FINISH: POWDER-COATED GLOSS SILVER 14
WOOD: THERMALLY MODIFIED ASH
FOOTING/ ATTACHMENT: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS AS PER MANUFACTURERS SPECIFICATIONS.

BENCH

MODEL NO.: MLB970-W-D3 900 SERIES, 70IN L, CAST AL ENDS, THERMAL ASH SEAT AND BACK, END ARMS
METAL FINISH: POWDER-COATED GLOSS SILVER 14
WOOD: THERMALLY MODIFIED ASH
FOOTING/ ATTACHMENT: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS AS PER MANUFACTURERS SPECIFICATIONS.

PICNIC TABLE

MODEL NO.: MTB-2800-00063 (FAVA CLUSTER SEATING - 2 DOUBLE SEATS)
METAL FINISH: POWDER-COATED GLOSS SILVER 14
WOOD: THERMALLY MODIFIED ASH
FOOTING/ ATTACHMENT: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS AS PER MANUFACTURERS SPECIFICATIONS.

2. THE FOLLOWING SITE FURNISHINGS SHALL BE SUPPLIED AND INSTALLED BY BLUE IMP 1-800-661-1462 OR APPROVED EQUAL:

BIKE RACK

MODEL NO.: 2 BIKE RACK (CAPACITY OF 5)
METAL FINISH: POWDER-COATED SATIN BLACK
FOOTING/ ATTACHMENT: SECURED TO CONCRETE PAVING WITH STAINLESS STEEL FASTENERS AS PER MANUFACTURERS SPECIFICATIONS.

2.0 SPORTS FURNISHINGS

1. THE FOLLOWING SPORT FURNISHINGS SHALL BE SUPPLIED AND INSTALLED BY OPEN SPACE SOLUTIONS 226-339-9208 (ANSLEY BROMLEY) AS SPECIFIED, OR APPROVED EQUAL:

BASKETBALL NET

MODEL NO.: 770-CV-FR (770 SQUARE POST OUTDOOR BASKETBALL W/BL DIRECT MOUNT BY JAYPRO SPORTS)
METAL FINISH: BLACK POWDER COAT FINISH
BACKBOARD: CLEAR VIEW TEMPERED GLASS (CV)
GOAL: FLEX RIM (FR)
NET: NYLON
FOOTING/ATTACHMENT: CONCRETE PIER FOOTINGS BY SUPPLIER/INSTALLER TO MANUFACTURER'S SPECIFICATIONS.

2. THE FOLLOWING SPORT FURNISHINGS SHALL BE SUPPLIED BY MARCHANTS SCHOOL SPORT 877-439-9400 AS SPECIFIED, OR APPROVED EQUAL:

TENNIS NET

MODEL NO.: TM10 (COMPETITION TENNIS SYSTEM INCLUDING 3" Ø ALUMINUM POSTS, NET, TENSION CABLES, ANCHORS, AND REMOVABLE HANDLE BY BISON INC.)
METAL FINISH: GREEN POWDER COAT FINISH (AS SUPPLIED)
FOOTING/ATTACHMENT: CONCRETE PIER FOOTINGS BY SUPPLIER/INSTALLER TO MANUFACTURER'S SPECIFICATIONS.

PICKLEBALL NET

MODEL NO.: PK10XL (COMPETITION PICKLEBALL SYSTEM INCLUDING 3" Ø ALUMINUM POSTS, NET, TENSION CABLES, ANCHORS, AND REMOVABLE HANDLE BY BISON INC.)
METAL FINISH: GREEN POWDER COAT FINISH (AS SUPPLIED)
FOOTING/ATTACHMENT: CONCRETE PIER FOOTINGS BY SUPPLIER/INSTALLER TO MANUFACTURER'S SPECIFICATIONS.

3. PACKAGE ALL PRODUCTS AND HANDLE CAREFULLY DURING SHIPMENT & INSTALLATION TO AVOID DAMAGING THE PRODUCTS AND FINISHES. DAMAGED PRODUCTS WILL BE REJECTED.

4. OBTAIN SMOOTH UNIFORM GRADIENT AT INSTALLATION LOCATION.

5. INSTALL ALL PRODUCTS TRUE, PLUMB, AND FIRMLY ANCHORED IN SPECIFIED LOCATIONS.

6. ASSEMBLE AND INSTALL AS PER MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE NOTED.

7. EXISTING SURFACE MATERIALS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AFTER INSTALLATION AND ALL PACKAGING SHALL BE REMOVED FROM THE SITE.

3.0 ACCESSIBLE PARKING SIGNAGE

1. ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE ACCESSIBILITY FOR ONTARIANS WITH DISABILITIES ACT (ADA), THE HIGHWAY TRAFFIC ACT, AND THE ONTARIO TRAFFIC MANUAL (OTM) BOOK 5.
2. THE FOLLOWING SIGNAGE SHALL BE SUPPLIED BY B.M.R. MFG. INC. 1-800-461-7660 AS SPECIFIED, OR APPROVED EQUAL:

STANDARD ACCESSIBLE PARKING SIGN

MODEL NO.: RB-93 SUPPLEMENTARY SIGN
SURFACE: HIGH INTENSITY (ASTM D4956 TYPE III OR IV)
MOUNTING: GALVANIZED STEEL U-CHANNEL POST AS PER OPSD 990.110

VAN ACCESSIBLE SIGN

MODEL NO.: RB-93T SUPPLEMENTARY SIGN
SURFACE: HIGH INTENSITY (ASTM D4956 TYPE III OR IV)
MOUNTING: GALVANIZED STEEL U-CHANNEL POST AS PER OPSD 990.110

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

CONTRACTOR DRAWINGS

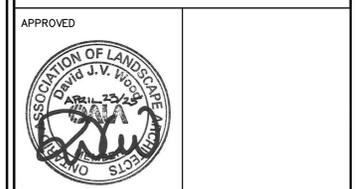
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NO.	REVISIONS	DATE	INITIAL
2.	ISSUED FOR TENDER	APR. 23/25	DW
1.	ISSUED FOR SITE PLAN APPROVAL	APR. 9/25	DW



115 Sandford Fleming Drive, Suite 200, Collingwood, ON, L9Y 5A6
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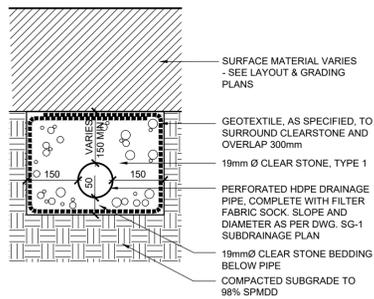
WILSON-SHEFFIELD PARK & WASHROOM BUILDING TOWN OF COLLINGWOOD

SITE DETAILS

SCALE:	AS SHOWN	JOB NO.	ET116005-02
DESIGN:	DW	D-3	DWG.
DRAWN:	GEC/AAL		
CHECKED:	DW/AB		
DATE:	FEB. 5, 2025		

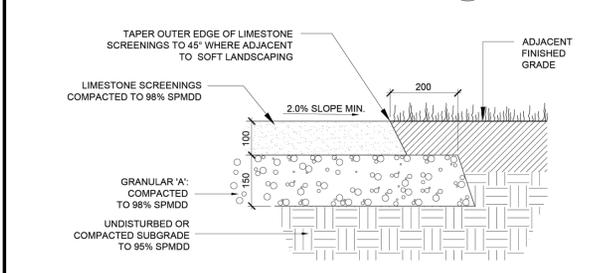
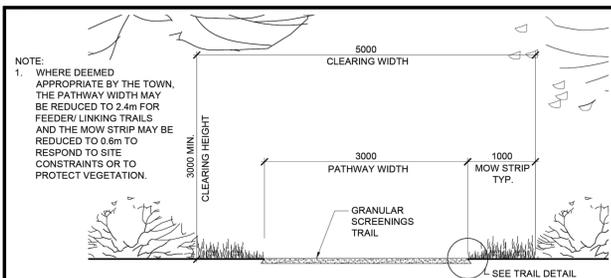
NOTES

1. REFER TO DWG. SG-1 SUBDRAINAGE PLAN FOR PIPE LAYOUT, SIZES, TYPE, AND GRADES.
2. SUB-DRAINAGE WORK SHALL BE IN ACCORDANCE WITH OPSS, MUNI 405 AND OPSS, MUNI 1840.
3. SUB-DRAIN PIPE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 1. PERFORATED HDPE DRAINAGE PIPE (BIG 'O') AND FITTINGS WRAPPED IN A KNITTED SOCK GEOTEXTILE IN ACCORDANCE WITH OPSS 1860.
 2. NON-PERFORATED (SOLID) HDPE DRAINAGE PIPE (BIG 'O') AND FITTINGS.
 3. APPROPRIATE FITTINGS AND RODENT GRATES TO ATTACH TO PERFORATED POLYETHYLENE DRAINAGE PIPE AS PER MANUFACTURER'S SPECIFICATIONS.
 4. NOMINAL PIPE SIZES AS SPECIFIED IN THE APPLICABLE DETAILS.
4. EXCAVATING AND TRENCHING FOR SUB-DRAIN PIPES SHALL BE IN ACCORDANCE WITH OPSS MUNI 401, TO WIDTH, GRADE, AND ALIGNMENT SPECIFIED. DRAINAGE TRENCHES IF REQUIRED DURING RAINY PERIODS IN ACCORDANCE WITH OPSS, MUNI 517.
5. GEO-TEXTILE SHALL BE TERRAFIX 270R, OR APPROVED EQUAL, IN ACCORDANCE WITH OPSS, MUNI 1860.
6. BEDDING, EMBEDMENT AND BACKFILL MATERIAL SHALL BE 19mm DIAMETER CLEAR STONE TYPE 1 OR TYPE II IN ACCORDANCE TO OPSS, MUNI 1004.
7. CONTRACTOR IS RESPONSIBLE TO COORDINATE SUB-DRAIN INSTALLATION SUCH THAT NO CONFLICTS OCCUR WITH FOOTINGS FOR PLAYGROUND STRUCTURES, FENCING, OR COURT NET POST.



3 SUBDRAIN

1:10



- NOTE:**
1. EXCAVATE ALL TOPSOIL AND ORGANIC MATTER UNDER TRAIL BED.
 2. STANDARD DETAIL REFLECTS IDEAL SUBGRADE CONDITIONS ON COMPACTED WELL DRAINED SOIL. ADDITIONAL GRANULAR MATERIAL MAY BE REQUIRED TO SUIT CONDITIONS.
 3. ALL GRANULAR WORK TO BE IN ACCORDANCE WITH OPSS 314.
 4. IN AREAS WHERE FULL ORGANIC REMOVAL CANNOT BE ACHIEVED OR IN AREAS WHERE WETTER SOILS ARE PRESENT, TERRAFIX 24-15 GEOTEXTILE (OR APPROVED EQUAL) MAY BE INSTALLED UNDER THE GRANULAR SUB-BASE. THE GEOTEXTILE SHALL EXTEND 200mm BEYOND THE SUBBASE LAYER ON EACH SIDE OF THE TRAIL AND BE BURIED.
 5. DIRECTION OF CROSS SLOPE SHALL BE ADJUSTED TO SUIT GRADING REQUIREMENTS.
 6. DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

NO.	REVISION	APRD	DATE
3	UPDATED NOTES & DIMENSIONS		SEPT/12
2	REVISED PROFILE, AND DETAIL NAME & NUMBERING		APRIL/12
1	ADDITION OF CONSTRUCTION DETAIL		DEC/07

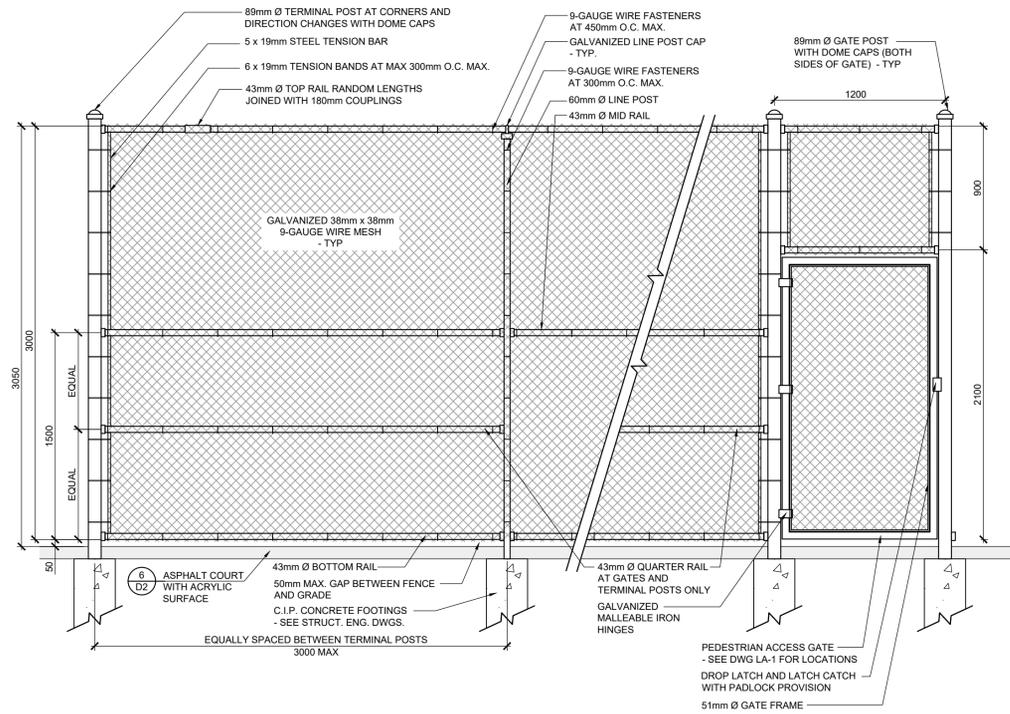
TOWN OF COLLINGWOOD
GRANULAR SCREENINGS TRAIL

APRD: TOWN DATE: JAN/03
DRAWN: CW/DW SCALE: NTS

STD. No. 1122

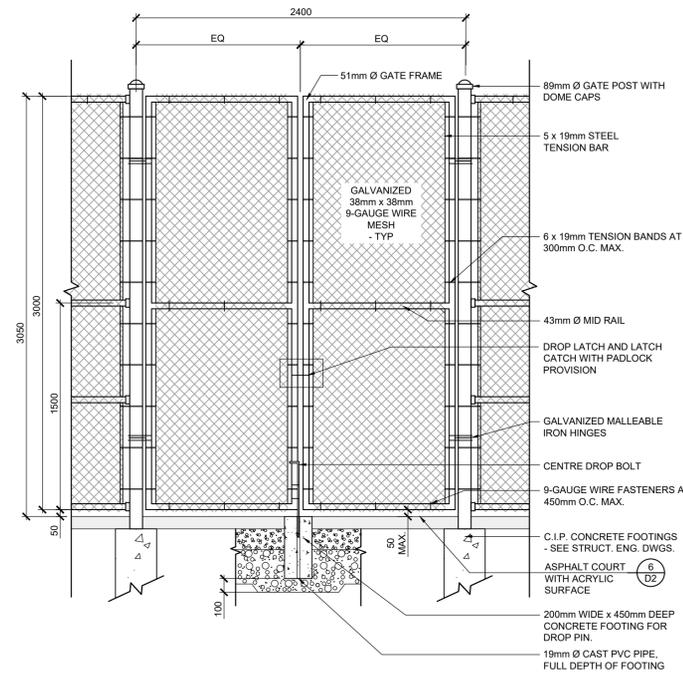
4 GRANULAR TRAIL

NTS



1 CHAIN LINK COURT FENCING & GATES - TYPICAL

1:25

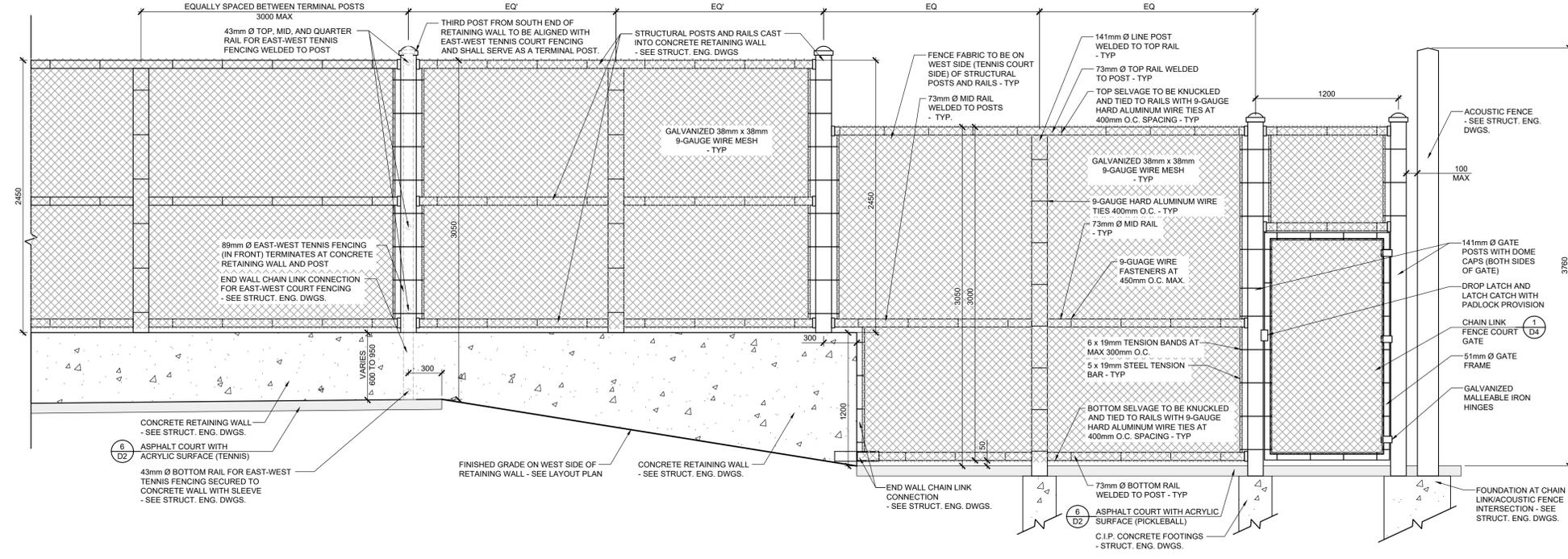


2 COURT MAINTENANCE GATES

1:25

GENERAL NOTES

- 1.0 CHAINLINK FENCING - GENERAL**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF POSTS AND GATES. TERMINAL AND GATE POSTS SHALL BE STAKED ON-SITE AND APPROVED PRIOR TO EXCAVATION.
 - INSTALL FENCING AND GATES ALONG INDICATED LINES, PLUMB, LEVEL, FREE OF KINKS AND BUCKLES, WITH POSTS ACCURATELY ALIGNED.
 - ALL CHAINLINK FENCING SHALL CONFORM TO OPSS MUNI 772, OPSS MUNI 1541, AND APPLICABLE DETAILS AND SPECIFICATIONS.
 - COURT ENCLOSURE FENCING AND GATES SHALL BE GALVANIZED STEEL WITH MESH FABRIC INSTALLED ON THE INSIDE OF THE ENCLOSURE, FACING TOWARD GAME PLAY, UNLESS OTHERWISE NOTED.
 - ALL STEEL PIPE TO BE SCHEDULE 40 GALVANIZED.
 - WHEN VINYL-COATED FENCE FABRIC IS USED, ALL POSTS, POST SLEEVES, AND RAILS SHALL BE VINYL-COATED TO MATCH THE CLASS AND COLOUR OF THE FABRIC, IN ACCORDANCE WITH CAN/CSA 138.1.
 - MESH FABRIC SHALL BE 38mm, 9-GAUGE GALVANIZED STEEL AS SPECIFIED.
 - WIRE TIES SHALL BE 9-GAUGE GALVANIZED STEEL TO ASTM F626, WRAPPED A MINIMUM OF TWO FULL TURNS AROUND THE FABRIC AND TIGHTLY TWISTED TO SECURE TO POST OR RAIL.
 - SECURE FABRIC TO HORIZONTAL TOP, BOTTOM, MID, AND QUARTER RAILS WITH WIRE TIES AT 450mm O.C.
 - SECURE FABRIC TO VERTICAL LINE POSTS WITH WIRE TIES AT 300mm O.C.
 - FURNISH GATES WITH GALVANIZED MALLEABLE IRON HINGES, DROP LATCH, AND LATCH CATCH. GATES SHALL OPEN APPROXIMATELY 180 DEGREES. LATCHES TO BE SUITABLE FOR PADLOCKS THAT CAN BE OPERATED FROM EITHER SIDE.
 - ACCESS GATES SHALL OPEN OUTWARD (AWAY FROM COURT PLAY AREA), BE SELF-CLOSING, AND INCLUDE A SELF-LATCHING DEVICE.
 - FABRICATE GATES AS INDICATED, WITH ELECTRICALLY WELDED JOINTS. HOT-DIP GALVANIZE AFTER WELDING.
 - OBTAIN A SMOOTH, UNIFORM GRADIENT BETWEEN POSTS. PROVIDE A MINIMUM 50mm CLEARANCE BETWEEN THE FENCE BOTTOM AND GROUND SURFACE.
- 2.0 RETAINING WALL FENCING**
- FENCE POSTS AND RAILS ON TOP OF THE CIP CONCRETE RETAINING WALL, AS WELL AS AT-GRADE PORTION OF THE STRUCTURAL FENCE/PEDESTRIAN GATE (SEE DETAIL 3/D4) SHALL BE SCHEDULE 40 AND ASTM F1083 HIGH-STRENGTH GRADE (345 MPa YIELD STRENGTH) IN ACCORDANCE WITH THE STRUCTURAL ENGINEERING DRAWINGS.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL ALSO INCLUDE THE AT-GRADE PORTION OF THE STRUCTURAL FENCE AND PEDESTRIAN GATE (ON CONCRETE FOOTINGS) AS DEPICTED IN DETAIL 3/D4. DRAWINGS SHALL INDICATE ALL MATERIALS, DIMENSIONS, THICKNESSES, FINISHES, CONNECTIONS, JOINTS, ANCHORAGE SYSTEMS, SUPPORTS, REINFORCEMENT, DETAILS, AND ACCESSORIES.
 - ALL POSTS, RAILS, CAPS, ELBOWS, AND OTHER JOINTS SHALL BE WELDED IN ACCORDANCE WITH CSA W59.
 - NEATLY TOUCH UP ALL WELDED JOINTS WITH GALVAFROID BY W.R. MEADOWS, OR APPROVED EQUAL.
 - CHAIN-LINK MESH ON TOP OF THE RETAINING WALL SHALL BE INSTALLED ON THE TENNIS COURT SIDE OF THE POSTS AND RAILS.



3 CHAIN LINK COURT FENCING - RETAINING WALL

1:25

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

CONTRACTOR DRAWINGS
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NO.	REVISIONS	DATE	INITIAL
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1.	ISSUED FOR SITE PLAN APPROVAL	APR. 9/25	DW

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e-mail: inquiry@envision-tatham.com

APPROVED

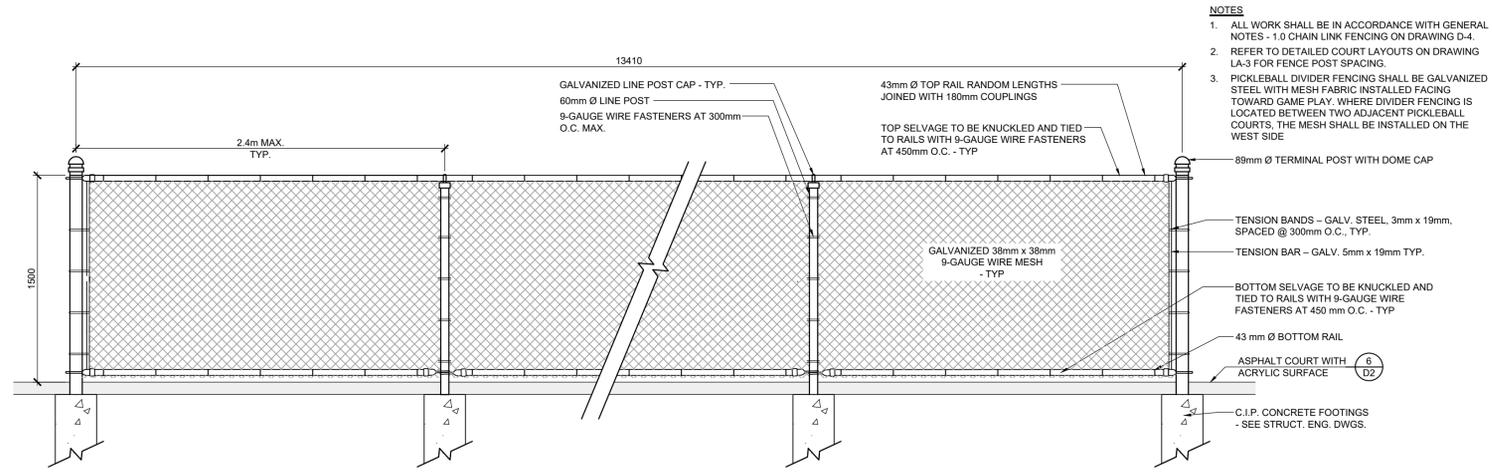
**WILSON-SHEFFIELD
PARK & WASHROOM
BUILDING
TOWN OF COLLINGWOOD**

SITE DETAILS

SCALE:	AS SHOWN	JOB NO.	ET116005-02
DESIGN:	DW		
DRAWN:	GEC/AAL		
CHECKED:	DW/AB		
DATE:	FEB. 5, 2025		

D-4

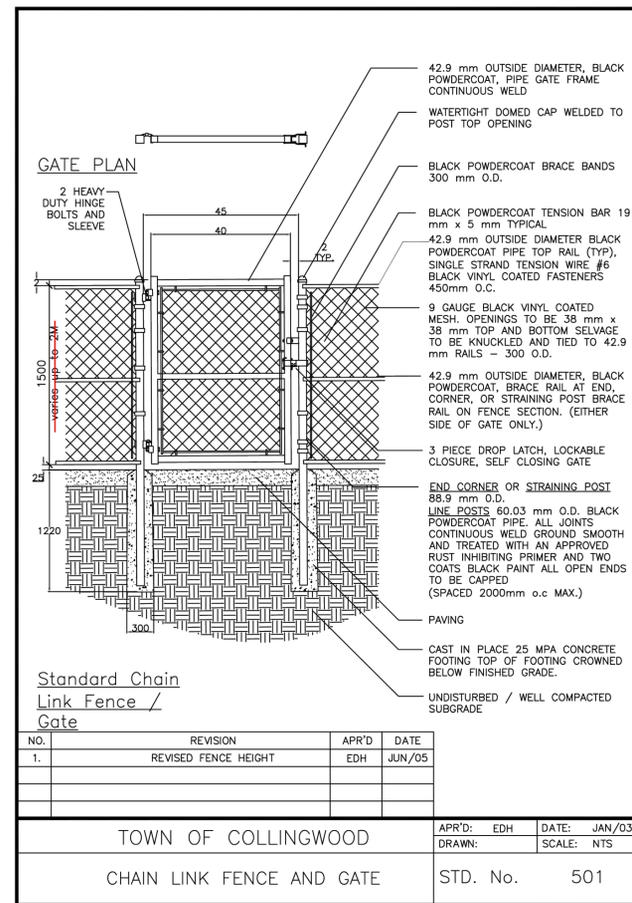
DWG.



- NOTES**
1. ALL WORK SHALL BE IN ACCORDANCE WITH GENERAL NOTES - 1.0 CHAIN LINK FENCING ON DRAWING D-4.
 2. REFER TO DETAILED COURT LAYOUTS ON DRAWING LA-3 FOR FENCE POST SPACINGS.
 3. PICKLEBALL DIVIDER FENCING SHALL BE GALVANIZED STEEL WITH MESH FABRIC INSTALLED FACING TOWARD GAME PLAY. WHERE DIVIDER FENCING IS LOCATED BETWEEN TWO ADJACENT PICKLEBALL COURTS, THE MESH SHALL BE INSTALLED ON THE WEST SIDE.

1 PICKLEBALL DIVIDER FENCE

1:25



Standard Chain Link Fence / Gate

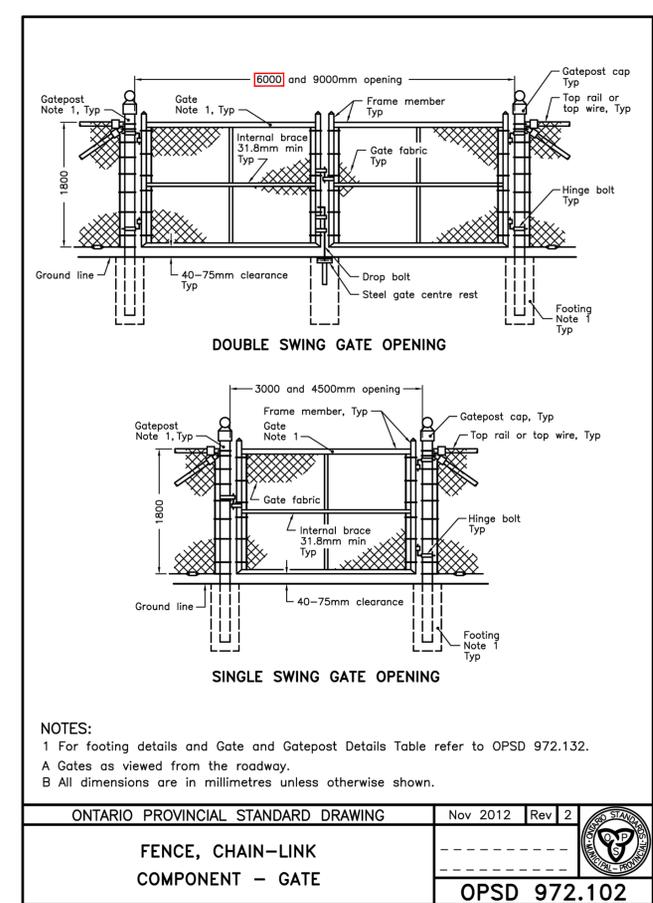
NO.	REVISION	APR'D	DATE
1.	REVISED FENCE HEIGHT	EDH	JUN/05

TOWN OF COLLINGWOOD	APR'D: EDH	DATE: JAN/03
CHAIN LINK FENCE AND GATE	DRAWN:	SCALE: NTS
	STD. No.	501

- NOTES**
1. ALL WORK SHALL BE IN ACCORDANCE WITH GENERAL NOTES - 1.0 CHAIN LINK FENCING ON DRAWING D-4.
 2. SWM POND FENCING AND GATES SHALL BE BLACK VINYL-COATED GALVANIZED STEEL WITH MESH FABRIC INSTALLED ON THE OUTSIDE OF THE SWM POND, FACING TOWARD THE PARK AND PEDESTRIAN TRAILS, UNLESS OTHERWISE INDICATED.
 3. REFER TO DRAWINGS LA-1 TO LA-3 FOR ALTERNATIVE GALVANIZED FENCE CONDITION.

2 1.5m HIGH BLACK VINYL CHAIN LINK FENCE

NTS



- NOTES:**
- 1 For footing details and Gate and Gatepost Details Table refer to OPSD 972.132.
 - A Gates as viewed from the roadway.
 - B All dimensions are in millimetres unless otherwise shown.

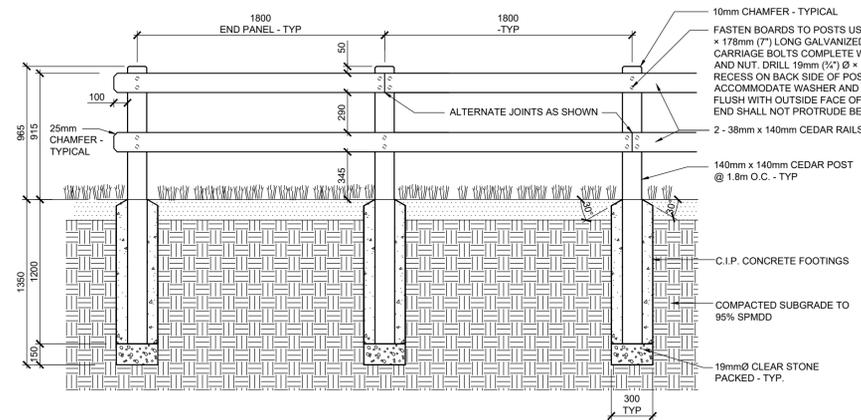
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2
FENCE, CHAIN-LINK COMPONENT - GATE		
		OPSD 972.102

- NOTES**
1. ALL WORK SHALL BE IN ACCORDANCE WITH GENERAL NOTES - 1.0 CHAIN LINK FENCING ON DRAWING D-4.
 2. REFER TO DRAWINGS LA-1 TO LA-3 FOR GALVANIZED OR BLACK VINYL FENCE CONDITIONS.

3 3.0m and 6.0m WIDE SWING GATE

NTS

- NOTES**
1. ALL FENCE RAILS TO RUN PARALLEL TO GRADE. STEPPED FENCE INSTALLATION IS NOT PERMITTED. JOINTS SHALL BE CUT AT APPROPRIATE ANGLES TO FIT TIGHTLY AND ADDRESS CHANGES IN SLOPE.
 2. HORIZONTAL BOARDS SHALL BE INSTALLED FACING THE PLAYGROUND SIDE OF THE FENCE.
 3. FENCE INSTALLATION SHALL BE TRUE TO LINE, LEVEL, AND PLUMB. STRUCTURE TO BE SECURELY BRACED UNTIL PERMANENTLY FIXED.
 4. SELECT CEDAR BOARDS FOR GOOD APPEARANCE. ALL MEMBERS SHALL BE FREE FROM WANES AND BARK. TORN GRAIN SHALL BE PLANED OR SANDED SMOOTH. KNOTS SHALL BE SOUND AND EVENLY DISTRIBUTED.
 5. ALL LUMBER SHALL BE STANDARD GRADE, UNTREATED WESTERN RED CEDAR, KILN-DRIED, WITH A MAXIMUM MOISTURE CONTENT OF 15%. LUMBER SHALL BE GRADE-STAMPED BY AN AGENCY CERTIFIED BY THE CANADIAN LUMBER STANDARDS ACCREDITATION BOARD (CLSAB), IN ACCORDANCE WITH THE NLGA STANDARD GRADING RULES (1980 EDITION, SUPPLEMENT NO. 1, PARA. 127).
 6. ALL SURFACES SHALL BE SMOOTH-FACED, SURFACED FOUR SIDES (S4S) OR SANDED. ALL EXPOSED EDGES TO BE EASED OR CHAMFERED TO PREVENT SPLINTERING. ROUGH-CUT LUMBER IS NOT PERMITTED.
 7. ALL CONCRETE FOOTINGS SHALL BE 25 MPa AT 28 DAYS WITH 5-8% AIR ENTRAINMENT. CONCRETE SHALL BE READY-MIXED AND INSTALLED IN ACCORDANCE WITH CSA A23.1. PROVIDE A CAPILLARY BREAK BETWEEN WOOD AND CONCRETE.
 8. FASTEN BOARDS TO POSTS AS DETAILED.
 9. ALL BOLTS, NUTS, WASHERS, AND BRACKETS TO BE HOT-DIPPED GALVANIZED. CONFORM TO ASTM A307 AND CSA B111 AS APPLICABLE.
 10. ALL METAL BRACKETS AND CONNECTION HARDWARE TO BE HOT-DIPPED GALVANIZED.



4 EQUESTRIAN FENCE

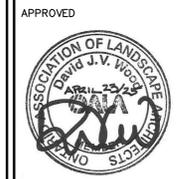
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1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

CONTRACT DRAWINGS
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NO.	REVISIONS	DATE	INITIAL
2.	ISSUED FOR TENDER	APR. 23/25	DW
1.	ISSUED FOR SITE PLAN APPROVAL	APR. 9/25	DW

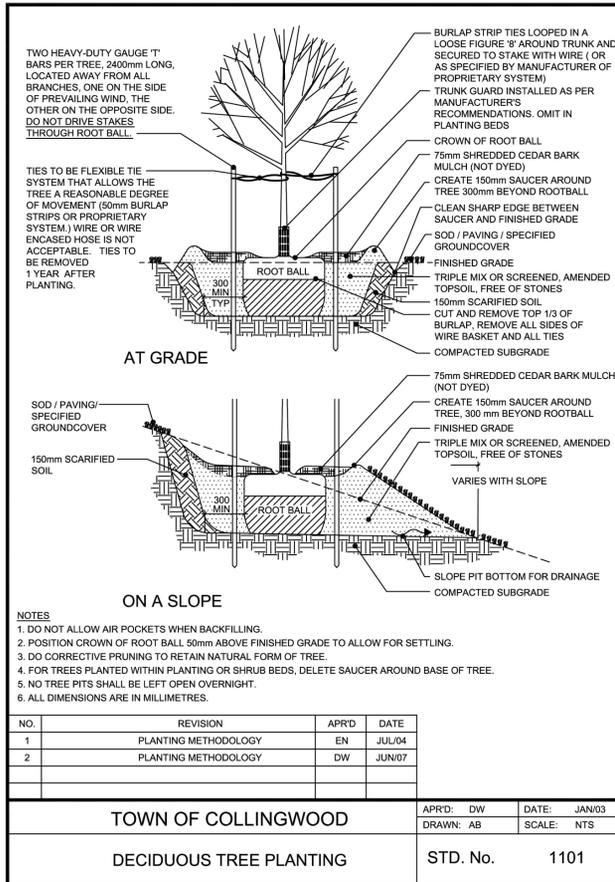
ENVISIONTATHAM
 115 Sandford Fleming Drive, Suite 200, Collingwood, ON, L9Y 5A6
 Tel. (705) 445-0422 Fax. (705) 444-2327
 e-mail: inquiry@envision-tatham.com



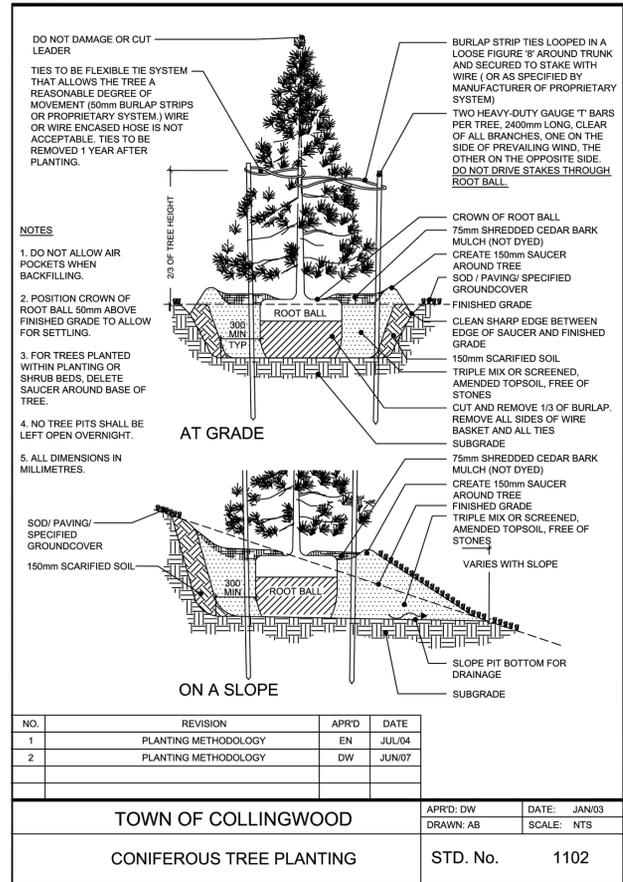
**WILSON-SHEFFIELD
 PARK & WASHROOM
 BUILDING
 TOWN OF COLLINGWOOD**

SITE DETAILS

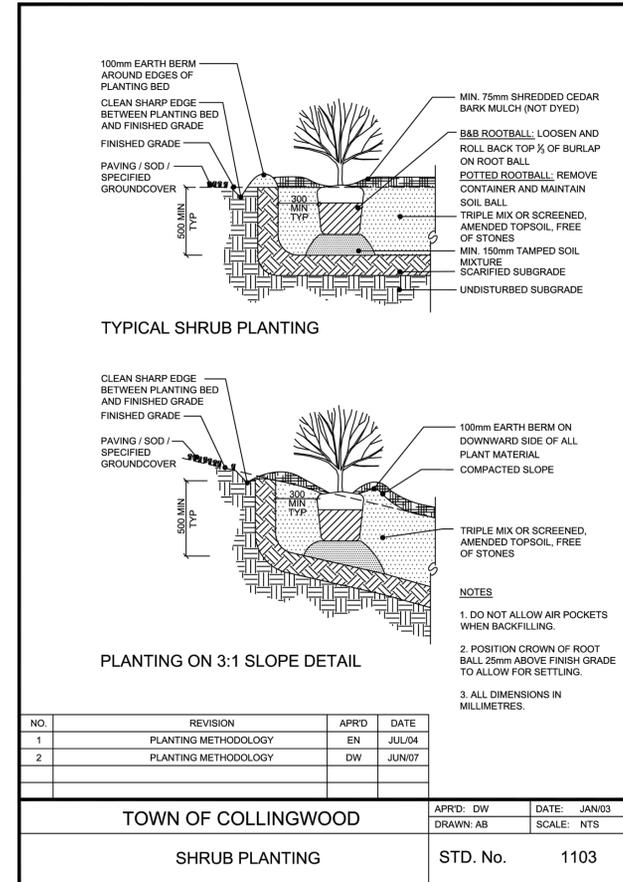
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DESIGN: DW	D-5
DRAWN: GEC/AAL/KP	
CHECKED: DW/AB	
DATE: FEB. 5, 2025	
	DWG.



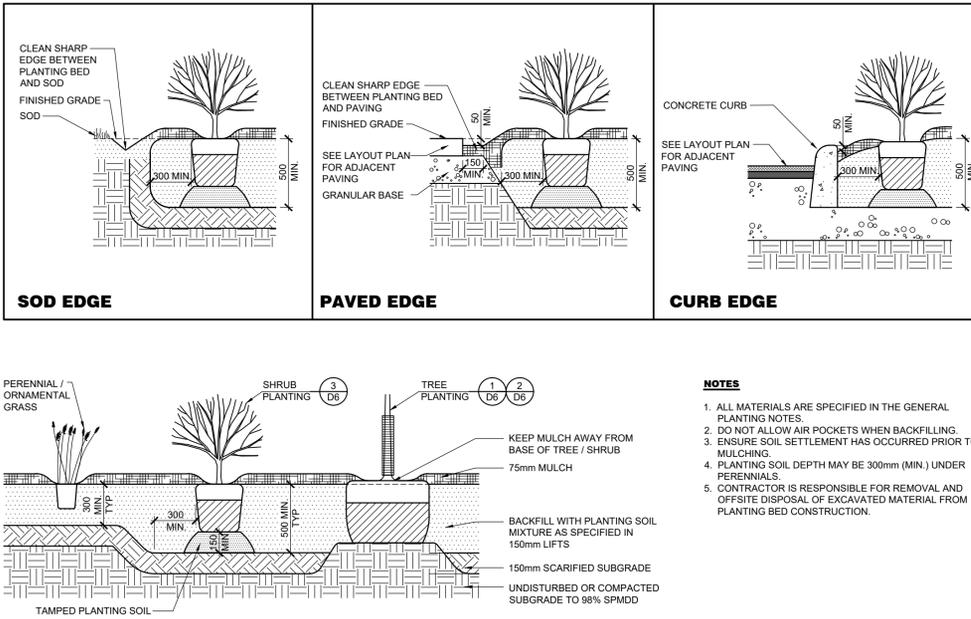
1 DECIDUOUS TREE PLANTING NTS



2 CONIFEROUS TREE PLANTING NTS



3 SHRUB PLANTING NTS



4 MULCHED PLANTING BED 1:25

GENERAL NOTES

- 1.0 PLANTING**
 - PLANT MATERIAL SHALL BE IN ACCORDANCE WITH THE CANADIAN LANDSCAPE STANDARD (LATEST EDITION), PUBLISHED BY THE CANADIAN NURSERY LANDSCAPE ASSOCIATION AND THE CANADIAN SOCIETY OF LANDSCAPE ARCHITECTS, EXCEPT WHERE SPECIFIED OTHERWISE.
 - ALL PLANTS SHALL BE SUPPLIED AS SPECIFIED IN THE 'PLANT LIST'. SUBSTITUTIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
 - ALL MATERIALS SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - MULCH TO BE SHREDDED CEDAR BARK FREE OF DYES AND CHEMICALS, OR APPROVED EQUAL.
 - PLANTING SOIL MIXTURE SHALL BE 50% SCREENED TOPSOIL, 20% COARSE SAND, AND 30% COMPOST, AS SPECIFIED. CONTRACTOR SHALL PROVIDE SOURCE AND SAMPLE OF SOIL MIXTURE, AS SPECIFIED, FOR APPROVAL PRIOR TO COMMENCING WORK.
 - TREE STAKES TO BE 40 x 40 x 5mm x 1800mm LONG HEAVY DUTY GAUGE T-BARS, DRIVEN SECURELY INTO THE SUB-GRADE.
 - TIES SHALL BE 50mm WIDE BURLAP STRIPS LOOPED IN A LOOSE FIGURE 8 OR ANOTHER WOVEN BIODEGRADABLE TIE SYSTEM THAT REMAINS FLEXIBLE DURING WINTER MONTHS.
 - TRUNK PROTECTION TO BE 100mm DIA. HDPE PIPE, 500mm LONG OR TO LOWEST BRANCH, EXCEPT IN SWM PONDS AND NATURALIZATION AREAS WHERE IT IS TO BE WHITE SPIRAL PLASTIC TREE GUARD.
 - STAKES AND TIES SHALL BE REMOVED 1 YEAR AFTER PLANTING.
 - TRUNK PROTECTION SHALL BE REMOVED AT COMPLETION OF WARRANTY PERIOD.
 - CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND OFFSITE DISPOSAL OF EXCAVATED MATERIAL FROM PLANTING BED CONSTRUCTION AND TREE/SHRUB PIT EXCAVATION.
- 2.0 TOPSOIL & FINISH GRADING**
 - ALL TOPSOIL AND FINISH GRADING SHALL BE IN ACCORDANCE WITH OPSS MUNI 802, UNLESS OTHERWISE SPECIFIED.
 - TOPSOIL SHALL BE IMPORTED TOPSOIL. PROVIDE SOURCE AND SAMPLE FOR APPROVAL PRIOR TO THE SUPPLY, HAULING, OR PLACEMENT. THE APPROVED SOURCE MUST NOT BE CHANGED WITHOUT FURTHER APPROVAL.
 - TOPSOIL SHALL BE FRIABLE LOAM, NEITHER HEAVY CLAY NOR MATERIAL OF A VERY LIGHT SANDY NATURE, CONTAINING MINIMUM OF 4% ORGANIC MATTER FOR CLAY LOAMS AND 2% FOR SANDY LOAMS, TO A MAXIMUM OF 25% BY VOLUME. TOPSOIL SHALL BE FREE OF SUBSOIL, CLAY LUMPS, ROOTS OVER 25mm IN DIAMETER, GRASS, TOXIC MATERIALS, STONES, OR FOREIGN OBJECTS, HAVING AN ACIDITY RANGE (PH) OF 5.5 - 7.5 AND BE REASONABLY FREE OF WEEDS, TOPSOIL CONTAINING GRASS, COUCHGRASS, OR OTHER NOXIOUS WEEDS IS NOT ACCEPTABLE. TOPSOIL SHALL BE FRIABLE WHEN MOIST.
 - SCHEDULE PLACING OF TOPSOIL MIXTURE AND FINISH GRADING TO PERMIT SOD AND SEED OPERATIONS UNDER OPTIMUM GROWING CONDITIONS.
 - NO WORK SHALL PROCEED IF THE SITE AND SOIL MATERIALS ARE EXCESSIVELY WET.
 - TOPSOIL SHALL BE SPREAD TO A MINIMUM UNIFORM DEPTH OF 150mm FOR ALL GENERAL LANDSCAPE AREAS AND BE 15mm BELOW FINISHED GRADE FOR AREAS TO BE SODDED.
 - CLODS OF SOD, STONES/BOULDERS, ROOTS, AND OTHER DELETERIOUS MATERIAL LARGER THAN 50mm DIA. TO BE RAKED OUT OR MECHANICALLY REMOVED FROM THE PLACED TOPSOIL, AND DISPOSED OF OFF-SITE.
 - ROLL AND COMPACT TOPSOIL TO BETWEEN 83 AND 87% SPMD, UNLESS OTHERWISE INDICATED.
 - TOLERANCES: GRADING TOLERANCES FOR GENERAL LANDSCAPE AREAS, EMBANKMENTS, DITCHES AND SWALES IS +/- 25mm ESTABLISHED GRADE OVER A 3m STRAIGHTEDGE (NOT UNIFORMLY HIGH OR LOW).
 - GRADE TO ELIMINATE ROUGH SPOTS, LOW AND UNEVEN AREAS, AND ENSURE SMOOTH TRANSITIONS AND POSITIVE DRAINAGE. PREPARE LOOSE FRIABLE BED BY MEANS OF CULTIVATION AND SUBSEQUENT RAKING.
 - LEAVE SURFACES SMOOTH, UNIFORM, AND FIRM AGAINST FOOTPRINTS, WITH A FINE, LOOSE TEXTURE BEFORE SOD IS PLACED.
 - SURPLUS/UNUSABLE OR CONTAMINATED TOPSOIL SHALL BE DISPOSED OFF-SITE IN APPROVED LOCATION.
- 3.0 SODDING**
 - SODDING SHALL BE IN ACCORDANCE WITH OPSS MUNI 803, UNLESS OTHERWISE SPECIFIED.
 - SOD SHALL BE NUMBER ONE GRADE TURFGRASS NURSERY SOD WITH A KENTUCKY BLUEGRASS SOD CLASSIFICATION.
 - SOD ALL DISTURBED AREAS UNLESS OTHERWISE INDICATED.
 - SOD SHALL BE GROWN AND SOLD IN ACCORDANCE WITH THE SPECIFICATIONS FOR TURFGRASS SOD FOR ONTARIO PUBLISHED BY THE NURSERY SOD GROWERS' ASSOCIATION (N.S.G.A.) AND SHALL BE ESPECIALLY SOWN AND CULTIVATED IN NURSERY FIELDS AS TURFGRASS CROP.
 - SODDING MAY BE PERFORMED AT ANY TIME BETWEEN APRIL 30 AND NOVEMBER 1. IF SOD IS LAID FOLLOWING NOVEMBER 1, ACCEPTANCE WILL BE DEFERRED UNTIL ONE MONTH AFTER START OF GROWING SEASON, PROVIDED ACCEPTANCE CONDITIONS ARE FULFILLED.
 - LAY SOD WITHIN 36 HOURS OF BEING LIFTED OR WITHIN 24 HOURS OF BEING LIFTED IF AIR TEMPERATURE EXCEEDS 20°.
 - ALL SODDING SHALL OCCUR WITHIN 1 WEEK OF TOPSOIL PLACEMENT AND FINISH GRADING. THE CONTRACTOR WILL BE RESPONSIBLE FOR WEED ERADICATION IF THEY FAIL TO PLACE THE SPECIFIED SOD WITHIN THIS PERIOD.
 - DURING WET WEATHER, ALLOW SOD TO DRY SUFFICIENTLY TO PREVENT TEARING DURING LIFTING AND HANDLING.
 - DURING DRY WEATHER, PROTECT SOD FROM DRYING OUT AND WATER SOD AS NECESSARY TO ENSURE ITS VITALITY AND PREVENT DROPPING OF SOIL IN HANDLING. DRY SOD WILL BE REJECTED.
 - ENSURE FINISHED SOD SURFACE IS FLUSH WITH ADJOINING GRASS AREAS, PAVEMENT OR TOP SURFACE OF CURBS.
 - ON SLOPES, LAY SOD SECTIONS LONGITUDINALLY ALONG CURBS AND START LAYING SOD AT THE BOTTOM OF THE SLOPE.
 - PEG SOD ON SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL, 100mm BELOW TOP EDGE AT 200mm ON CENTER FOR FIRST SOD SECTIONS ALONG CONTOURS OF SLOPES AND NOT LESS THAN 4 PEGS PER SQUARE METER WITH PEGS DRIVEN TO 50mm ABOVE SOIL SURFACE OF SOD SECTIONS.
 - SOD STAKING SHALL BE WITH WOODEN PEGS AT 17 x 8 x 200mm, OR APPROVED EQUAL.
 - WATER SOD IMMEDIATELY AFTER LAYING TO OBTAIN MOISTURE PENETRATION INTO TOP 100mm OF TOPSOIL.
 - PROVIDE CLOSE CONTACT BETWEEN THE SOD AND THE UNDERLYING ROOT ZONE MIX BY ROLLING WITH A LIGHT ROLLER. IMPERFECTIONS IN THE SURFACE LEVEL SHOULD BE CORRECTED PRIOR TO THE LAYING OF THE SOD AND NOT BY ROLLING WITH A HEAVY ROLLER. USE OF HEAVY ROLLER TO CORRECT GRADE IRREGULARITIES IS NOT PERMITTED.
 - MAINTENANCE DURING THE ESTABLISHMENT PERIOD SHALL CONSIST OF BUT NOT BE LIMITED TO WATERING IN SUFFICIENT QUANTITIES AND AT REQUIRED FREQUENCY TO MAINTAIN CONTINUOUS SUBSOIL MOISTURE IMMEDIATELY UNDER SOD TO A DEPTH OF 75-100mm, ROLLING TO REMOVE MINOR DEPRESSIONS OR IRREGULARITIES, WEED CONTROL TO ENSURE THAT NON-SPECIFIED VEGETATION SHALL NOT EXCEED 5%, AND MOWING AT LEAST ONCE TO MAINTAIN GRASS AT 50mm HEIGHT (AFTER GRASS REACHED 75mm HEIGHT).
 - REMOVE WOODEN SOD PEGS AFTER SOD HAS ESTABLISHED WITH APPROVAL OF THE CONTRACT ADMINISTRATOR.
- 4.0 SEEDING**
 - HYDRO-SEED AND HYDRO-MULCH ALL SPECIFIED AREAS IN ACCORDANCE WITH OPSS MUNI 804.
 - SEEDING SHALL INCLUDE PERMANENT SEED MIX AND ANNUAL NURSE CROP AS FOLLOWS:
 - PERMANENT SEED MIX: OSC-8150 SIMCOE COUNTY NATIVE MIXTURE MIX SUPPLIED BY OSC SEEDS, WATERLOO, ONTARIO, TEL: 519-886-0557 OR APPROVED EQUIVALENT.
 - APPLICATION RATE: 25 kg/ha
 - ANNUAL NURSE CROP: ANNUAL RYE
 - APPLICATION RATE: 25 kg/ha
 - COVER: HYDRAULIC MULCH
 - FOR ALL SEED MIXES, CONFIRM APPLICATION RATES AND APPLICATION METHODS WITH SEED SUPPLIER AND INFORM CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES PRIOR TO EXECUTING THE WORK. PROVIDED ACCEPTANCE CONDITIONS ARE FULFILLED.
 - SEEDING SHALL BE PERFORMED BETWEEN APRIL 30 AND NOVEMBER 30.
 - ALL HYDRO-SEEDING AND HYDRO-MULCHING SHALL OCCUR WITHIN 7 DAYS OF TOPSOIL PLACEMENT AND FINISHED GRADING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WEED ERADICATION IF THEY FAIL TO PLACE THE SPECIFIED SEED AND MULCH WITHIN THIS PERIOD.
 - THE SEED SHALL BE DELIVERED IN CONTAINERS WITH THE APPROPRIATE 'CERTIFIED SEED' TAG ATTACHED IN ACCORDANCE WITH THE REGULATIONS OF THE CANADA SEEDS ACT.
 - MAINTENANCE DURING THE ESTABLISHMENT PERIOD SHALL CONSIST OF BUT NOT BE LIMITED TO WATERING IN SUFFICIENT QUANTITIES AND AT A REQUIRED FREQUENCY TO MAINTAIN CONTINUOUS SUBSOIL MOISTURE IMMEDIATELY UNDER THE SEEDED AREA TO A DEPTH OF 75-100mm, AND WEED CONTROL TO ENSURE THAT NON-SPECIFIED VEGETATION DOES NOT EXCEED 20%.
 - DURING THE WARRANTY PERIOD, MOW SEEDED AREAS ONCE TO A HEIGHT OF 150mm APPROX. IN MID-LATE JULY, TO REDUCE WEED SEED PRODUCTION AND TO CONTROL WOODY GROWTH.
 - PROTECT NEW SEED FROM DAMAGE (I.E. PUBLIC USE, VEHICULAR TRAFFIC, ETC.) UNTIL GROWTH IS ESTABLISHED.

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NO.	REVISIONS	DATE	INITIAL
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1.	ISSUED FOR SITE PLAN APPROVAL	APR. 9/25	DW



115 Sandford Fleming Drive, Suite 200, Collingwood, ON, L9Y 5A6
Tel: (705) 445-0422 Fax: (705) 444-2327
e-mail: inquiry@envision-tatham.com

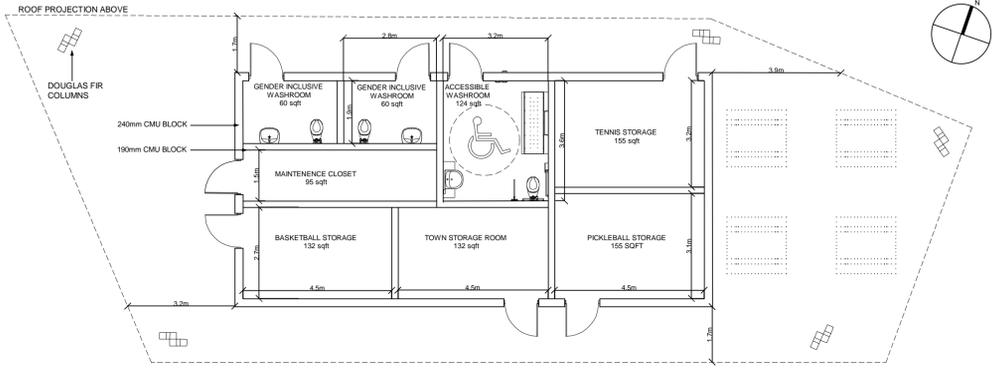
APPROVED



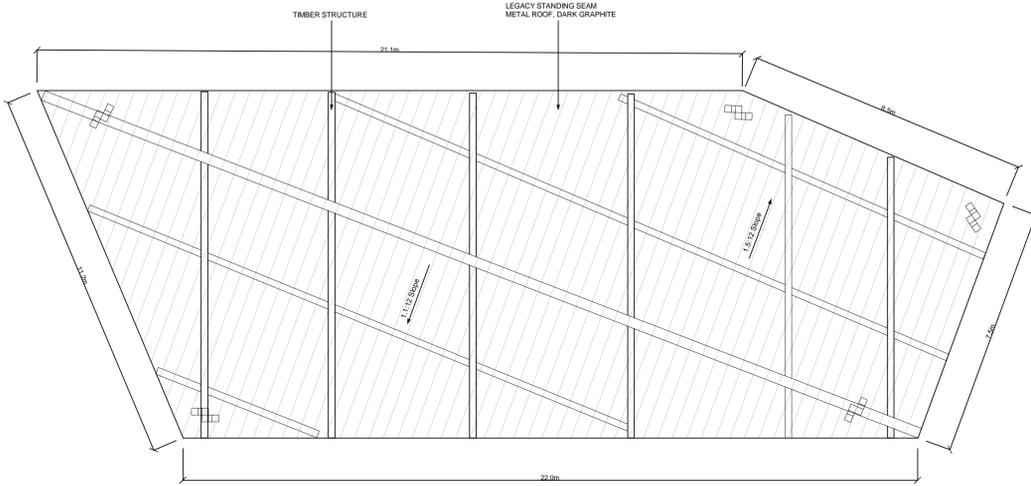
WILSON-SHEFFIELD PARK & WASHROOM BUILDING TOWN OF COLLINGWOOD

SITE DETAILS

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DRAWN: GEC/AAL	D-6
CHECKED: DW/AB	
DATE: FEB. 5, 2025	DWG.



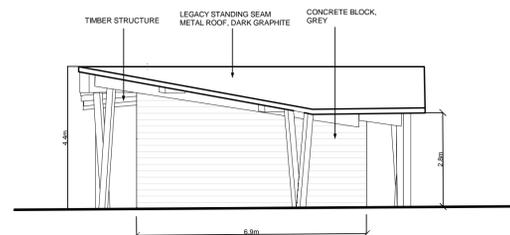
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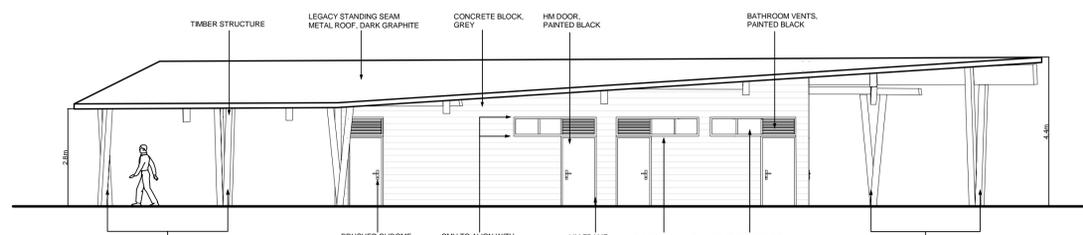
2 ROOF PLAN WITH FRAMING
SCALE: 1:100



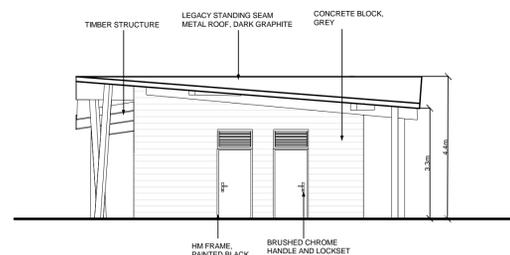
3 NORTHWEST RENDER



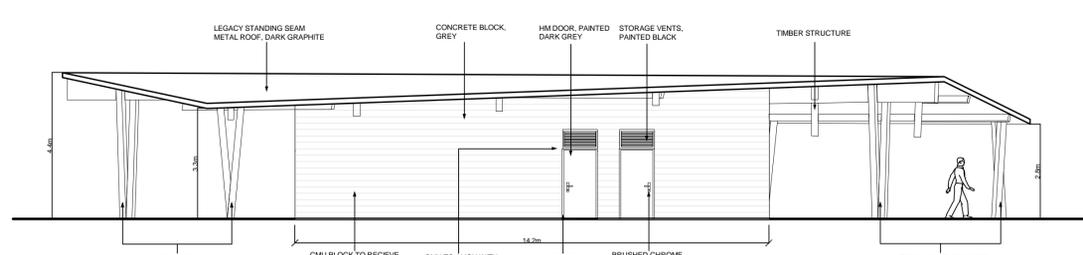
4 EAST ELEVATION
SCALE: 1:100



5 NORTH ELEVATION
SCALE: 1:100

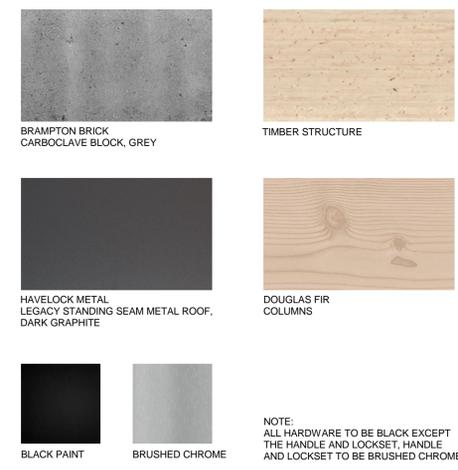


6 WEST ELEVATION
SCALE: 1:100



7 SOUTH ELEVATION
SCALE: 1:100

MATERIAL FINISHES



BRAMPTON BRICK
CARBOCLAVE BLOCK, GREY

TIMBER STRUCTURE

HAVELOCK METAL
LEGACY STANDING SEAM METAL ROOF,
DARK GRAPHITE

DOUGLAS FIR
COLUMNS

BLACK PAINT
BRUSHED CHROME

NOTE:
ALL HARDWARE TO BE BLACK EXCEPT
THE HANDLE AND LOCKSET, HANDLE
AND LOCKSET TO BE BRUSHED CHROME



All dimensions to be checked and verified on site. Do not scale drawings. Any discrepancies are to be reported to the Consultant. All drawings remain the property of the Consultant. Only latest approved drawings to be used for construction.

SCHEMATIC DESIGN
PROJECT No. 24-110
START DATE MAY.24

TOWN OF COLLINGWOOD
WILSON-SHEFFIELD
WASHROOM PAVILION

43A Hurontario Street,
Collingwood, ON

WASHROOM PLANS,
BUILDING ELEVATIONS,
MATERIALS AND
RENDERING

INDEX

DRAWING	DESCRIPTION
IN.1	INDEX SHEET
STM.1	STORM DRAINAGE PLAN
STM.2	STORM SEWER DESIGN SHEET
SS.1	SITE SERVICING PLAN
DE.1	TYPICAL DETAILS & NOTES
E1.0	ELECTRICAL OVERALL SITE PLAN LEGEND AND DRAWING LIST
E1.1	ELECTRICAL POWER SITE PLAN, SINGLE LINE DIAGRAM AND DUCTBANK DETAILS
E1.2	ELECTRICAL BUILDING LAYOUT-LIGHTING
E1.3	ELECTRICAL BUILDING LAYOUT-POWER
E1.4	ELECTRICAL PARKING LOT LIGHTING LAYOUT
E1.5	ELECTRICAL STREET LIGHT DETAILS
E1.6	ELECTRICAL STREET LIGHT DETAILS
E1.7	ELECTRICAL SPECIFICATIONS
M1.0	MECHANICAL SCHEDULES, LEGEND AND DRAWING LIST
M1.1	MECHANICAL SPECIFICATIONS
M1.2	MECHANICAL DETAILS
M1.3	MECHANICAL DETAILS
M1.4	HVAC LAYOUT
M1.5	PLUMBING LAYOUT

LEGEND

ITEM	EXISTING	PROPOSED
PROPERTY LINE	---	---
LOT LINE	---	---
CENTERLINE	---	---
EDGE OF ASPHALT	---	---
CONCRETE CURB	---	---
EDGE OF GRAVEL SHOULDER	---	---
DITCH/DIRECTION OF FLOW	--->	--->
DRAINAGE SWALE/DIRECTION OF FLOW	--->	--->
WATERMAIN/SIZE	--- 150# W/M	--- 150# W/M
WATER SERVICE	---	---
FIRE HYDRANT	◇ HYD	◆ HYD
EXISTING WATER VALVE	⊠ WV	⊠ WV
CURB STOP VALVE	⊠ CSV	⊠ CSV
WATERMAIN PLUG AND THRUST BLOCK	□	□
WATERMAIN BLOWOFF	○ BLOWOFF	○ BLOWOFF
WATERMAIN REDUCER	▷	▷
SANITARY SEWER/SIZE/DIRECTION OF FLOW	--- 200# SAN >	--- 200# SAN >
SANITARY MAINTENANCE HOLE	○ SAN MH	● SAN MH4
SANITARY SERVICE	---	---
SANITARY FORCEMAIN	---	---
STORM SEWER/SIZE/DIRECTION OF FLOW	--- 375# STM >	--- 375# STM >
STORM MAINTENANCE HOLE	○ STM MH	● STM MH4
CATCH BASIN	□ CB	■ CB4
DOUBLE CATCH BASIN	□ DCB	■ DCB4
CATCH BASIN MAINTENANCE HOLE	○ CBMH	● CBMH4
DOUBLE CATCH BASIN MAINTENANCE HOLE	○ DCBMH	● DCBMH4
DITCH INLET CATCH BASIN	□ DICB	■ DICB4
CULVERT	---	---
BELL UNDERGROUND	--- BU	--- BU
BELL AERIAL	--- BA	--- BA
CABLE UNDERGROUND	--- CU	--- CU
CABLE AERIAL	--- CA	--- CA
HYDRO UNDERGROUND	--- HU	--- HU
HYDRO AERIAL	--- HA	--- HA
GAS MAIN/SERVICE	--- GAS	--- GAS
FENCE	--- X ---	--- X ---
GUIDERAIL	---	---
BUSHLINE/TREELINE	~~~~~	~~~~~
CONTOUR	~~~~~ 179.00	~~~~~ 179.00
SPOT ELEVATION	x 179.00	x 179.00
GRADING DIRECTION/GRADE PERCENTAGE	--- 1.9%	--- 1.9%
DRAINAGE FLOW	--->	--->
TRAFFIC SIGN	▷ SIGN	▷ SIGN
TRAFFIC POLE/TRAFFIC SIGNAL	○ T/S	● P1
LIGHT STANDARD	○ LS	● LS
HYDRO POLE	○ HP	● HP
GUY WIRE	---	---
BELL POLE	○ BP	---
BELL MAINTENANCE HOLE	○ BELL MH	---
BELL PEDESTAL/VAULT	⊠	---
CABLE PEDESTAL/VAULT	⊠	---
HYDRO TRANSFORMER/VAULT	⊠	---
GAS VALVE	⊠ GAS VALVE	---
GAS MARKER	⊠ GAS	---
MAILBOX	⊠	---
STANDARD IRON BAR	◆ SIB	---
IRON BAR	◆ IB	---
TEMPORARY BENCHMARK	⊠ TBM#1	---
BOREHOLE/TEST HOLE	◆ B/H	---
DECIDUOUS/CONIFEROUS TREE, SHRUB/BUSH	⊙	⊙

DISCLAIMER AND COPYRIGHT

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BENCHMARKS

COORDINATES ARE UTM17N; ELEVATIONS ARE GEODETIC CGVD28; LOCALIZED TO VCM 011971U181
TBM-1: CUTCROSS IN CONCRETE TRANSFORMER PAD ON WEST SIDE OF DEY DRIVE (194.42M)

NOTES

EXISTING SERVICING INFORMATION FROM DEY DRIVE PLAN AND PROFILE (STA. 0+000 TO 0+360) PREPARED BY CONDELAND CONSULTING ENGINEERS AND PROJECT MANAGERS AS RECORDED DATED NOV. 24, 2023.

PARK BASE PLAN AND GRADING PREPARED BY ENVISION TATHAM.

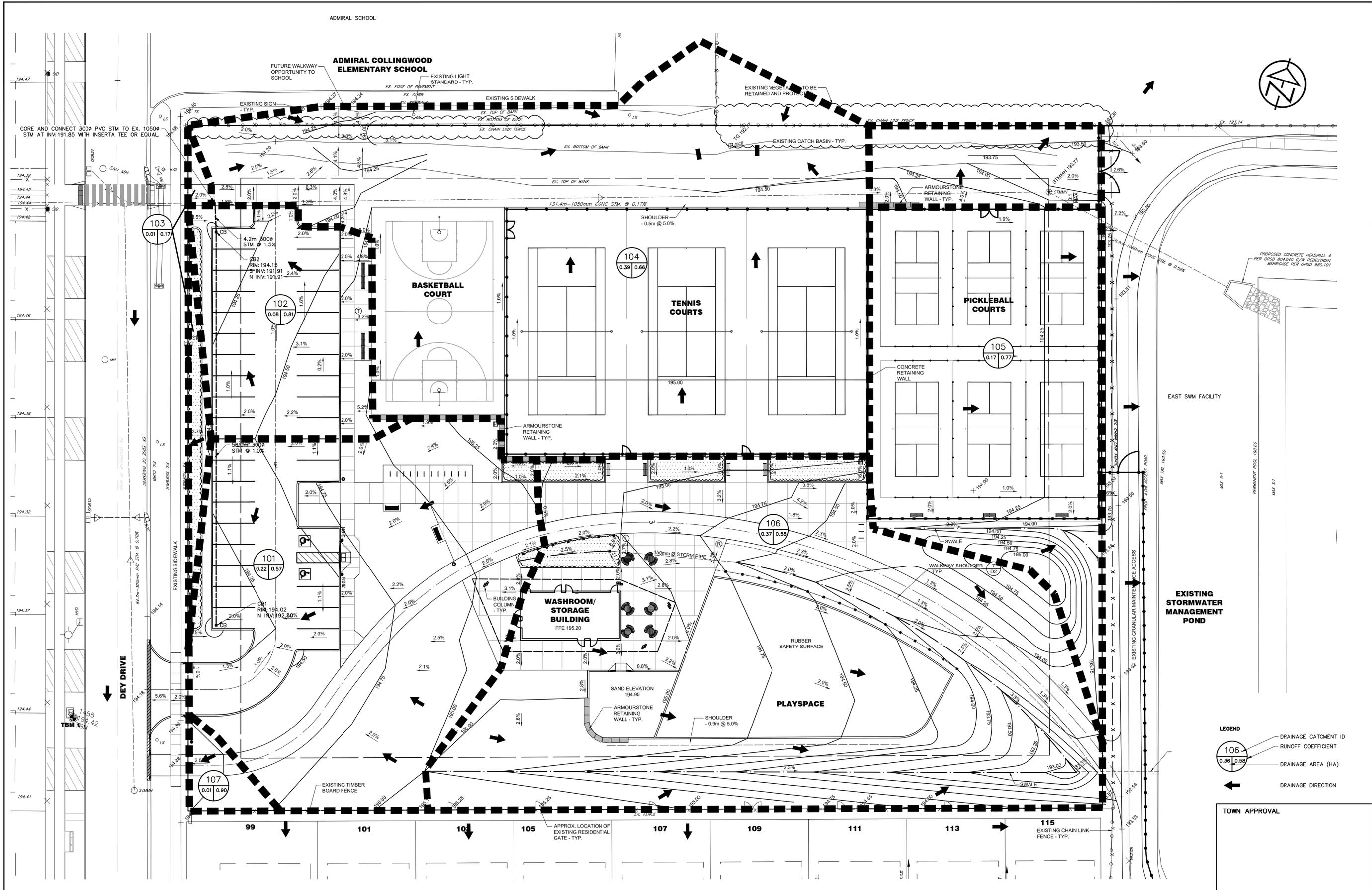
No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	FIRST SUBMISSION	MAR 2025	
2.	ISSUED FOR TENDER	APR 2025	

WILSON-SHEFFIELD PARK
TOWN OF COLLINGWOOD

TATHAM
ENGINEERING

INDEX SHEET

DESIGN: A0/KRL	FILE: 123308	DWG: IN.1
DRAWN: KRL	DATE: OCT 2024	
CHECK: A0	SCALE:	



LEGEND

	106	DRAINAGE CATCHMENT ID
	0.36	RUNOFF COEFFICIENT
	0.58	DRAINAGE AREA (HA)
	←	DRAINAGE DIRECTION

TOWN APPROVAL

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BENCHMARKS
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 TBM-1: CUTCROSS IN CONCRETE TRANSFORMER PAD ON WEST SIDE OF DEY DRIVE (194.42M)

NOTES
 EXISTING SERVICING INFORMATION FROM DEY DRIVE CVD28; LOCALIZED TO STA. 0+000 TO 0+360) PREPARED BY CONDELAN CONSULTING ENGINEERS AND PROJECT MANAGERS AS RECORDED DATED NOV. 24, 2023.
 PARK BASE PLAN AND GRADING PREPARED BY ENVISION TATHAM.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	FIRST SUBMISSION	MAR 2025	
2.	ISSUED FOR TENDER	APR 2025	

ENGINEER STAMP

LICENSED PROFESSIONAL ENGINEER
 APR 23 2025
 A. OVERHOLT
 100516012
 PROVINCE OF ONTARIO

WILSON-SHEFFIELD PARK
TOWN OF COLLINGWOOD

STORM DRAINAGE PLAN

TATHAM ENGINEERING

DESIGN: AO/KRL	FILE: 123308	DWG:
DRAWN: KRL	DATE: SEP. 2024	STM.1
CHECK: AO	SCALE: 1:250	

TATHAM ENGINEERING

Storm Sewer Design Sheet

Version Date: Mar.30, 2025
Version Number: 1

Project Information: Wilson-Sheffield Park 123308

Drawing Reference: STM-1 Mar.30, 2025

Prepared By: KRL Mar.30, 2025

Reviewed By: AO Mar.30, 2025

Municipality: Town of Collingwood

Runoff Coefficient Adjustment: Equation 3

Year	A	B
10	1.00	0.00
25	1.10	0.00
50	1.20	0.00
100	1.25	0.00

Time of Concentration: 10 mins

Year	A	B	C
2	807.44	6.75	0.83
5	1135.40	7.50	0.84
10	1387.00	7.97	0.85
25	1676.20	8.30	0.86
50	1973.10	9.00	0.87
100	2193.10	9.04	0.87

Material	Value
CSP	0.024
Concrete	0.013
PVC	0.013

Notes: External area and runoff coefficient calculated from Eden Oak Mcnabb Storm Sewer Design Sheet Dated Sep. 24, 2024 and Storm Tributary Plan East Drawing 12 rev. 15, dated Jan. 11, 2021. Red values represent manual overrides.

Street Name	Area ID / Label	Upstream Maintenance Hole	Downstream Maintenance Hole	Area (ha)	5 Year Runoff Coefficient (C)	Design Storm (Year)	Adjusted Runoff Coefficient (C)	Area x Runoff Coefficient	Cumulative Area (ha)	Cumulative Area x Adjusted Runoff Coefficient	Time of Concentration (min)	Rainfall Intensity (mm/hr)	Peak Flow (m ³ /s)	Manning's Roughness Coefficient	Sewer Length (m)	Sewer Slope (%)	Actual Sewer Diameter (mm)	Full Flow Velocity (m/s)	Full Flow Capacity (m ³ /s)	Actual Velocity (m/s)	Travel Time (min)	Calculated Sewer Diameter (mm)	Percentage of Full Flow Capacity (%)	Total Time of Travel (min)
External Flows		MH42	MH45	4.83	0.61	5	0.61	2.95	4.83	2.95	16.59	78.17	0.640	0.013	99.2	0.3%	1050	1.73	1.496	1.55	1.07	763	42.8%	17.66
Park Parking Lot	101	CB1	CB2	0.22	0.57	5	0.57	0.13	0.22	0.13	10.00	102.27	0.036	0.013	59.2	1.0%	300	1.37	0.097	1.18	0.84	206	36.8%	10.84
Park Parking Lot	102	CB2	MH45	0.08	0.81	5	0.81	0.06	0.30	0.19	10.84	98.33	0.052	0.013	3.9	1.5%	300	1.68	0.118	1.52	0.04	220	43.9%	10.88
Proposed Park	104	DICB1	MH45	0.39	0.66	5	0.66	0.26	0.39	0.26	10.00	102.27	0.073	0.013	5.7	2.0%	300	1.93	0.137	1.85	0.05	237	53.5%	10.05
Proposed Park	103+A68+A69	MH45	MH44	0.74	0.60	5	0.60	0.44	6.26	3.84	17.66	75.36	0.803	0.013	131.4	0.2%	1050	1.41	1.221	1.41	1.55	897	65.8%	19.21
Proposed Park		MH44	HW4	-	-	5	0.00	0.00	6.26	3.84	19.21	71.66	0.764	0.013	28.2	0.2%	1050	1.41	1.221	1.40	0.34	880	62.6%	19.55
Proposed Park	105			0.17	0.77	5	0.77	0.13	0.17	0.13	10.00	102.27	0.037											
Proposed Park	106		Culvert 1	0.37	0.58	5	0.58	0.21	0.37	0.21	10.00	102.27	0.061	0.013	10.5	1.0%	300	1.37	0.097	1.36	0.13	252	63.0%	10.13
Proposed Park	107			0.01	0.90	5	0.90	0.01	0.01	0.01	10.00	102.27	0.003											
Existing Condition Park	A81			0.05	0.25	5	0.25	0.01	0.05	0.01	10.00	102.27	0.004											

TATHAM ENGINEERING

Storm Sewer Design Sheet

Version Date: Mar.30, 2025
Version Number: 1

Project Information: Wilson-Sheffield Park 123308

Drawing Reference: STM-1 Mar.30, 2025

Prepared By: KRL Mar.30, 2025

Reviewed By: AO Mar.30, 2025

Municipality: Town of Collingwood

Runoff Coefficient Adjustment: Equation 3

Year	A	B
10	1.00	0.00
25	1.10	0.00
50	1.20	0.00
100	1.25	0.00

Time of Concentration: 10 mins

Year	A	B	C
2	807.44	6.75	0.83
5	1135.40	7.50	0.84
10	1387.00	7.97	0.85
25	1676.20	8.30	0.86
50	1973.10	9.00	0.87
100	2193.10	9.04	0.87

Material	Value
CSP	0.024
Concrete	0.013
PVC	0.013

Notes: External area and runoff coefficient calculated from Eden Oak Mcnabb Storm Sewer Design Sheet Dated Sep. 24, 2024 and Storm Tributary Plan East Drawing 12 rev. 15, dated Jan. 11, 2021. Red values represent manual overrides.

Street Name	Area ID / Label	Upstream Maintenance Hole	Downstream Maintenance Hole	Area (ha)	5 Year Runoff Coefficient (C)	Design Storm (Year)	Adjusted Runoff Coefficient (C)	Area x Runoff Coefficient	Cumulative Area (ha)	Cumulative Area x Adjusted Runoff Coefficient	Time of Concentration (min)	Rainfall Intensity (mm/hr)	Peak Flow (m ³ /s)	Manning's Roughness Coefficient	Sewer Length (m)	Sewer Slope (%)	Actual Sewer Diameter (mm)	Full Flow Velocity (m/s)	Full Flow Capacity (m ³ /s)	Actual Velocity (m/s)	Travel Time (min)	Calculated Sewer Diameter (mm)	Percentage of Full Flow Capacity (%)	Total Time of Travel (min)
External Flows		MH42	MH45	4.83	0.61	5	0.61	2.95	4.83	2.95	16.59	78.17	0.640	0.013	99.2	0.3%	1050	1.73	1.496	1.55	1.07	763	42.8%	17.66
Park Parking Lot	101	CB1	CB2	0.22	0.57	100	0.71	0.16	0.22	0.16	10.00	168.45	0.073	0.013	59.2	1.0%	300	1.37	0.097	1.37	0.72	270	75.8%	10.72
Park Parking Lot	102	CB2	MH45	0.08	0.81	100	1.00	0.08	0.30	0.24	10.72	163.08	0.107	0.013	3.9	1.5%	300	1.68	0.118	1.68	0.04	289	90.6%	10.76
Proposed Park	104	DICB1	MH45	0.39	0.66	100	0.83	0.32	0.39	0.32	10.00	168.45	0.151	0.013	5.7	2.0%	375	2.25	0.248	2.22	0.04	311	60.7%	10.04
Proposed Park	103+A68+A69	MH45	MH44	0.74	0.60	100	0.75	0.56	6.26	4.06	17.66	125.48	1.005	0.013	131.4	0.2%	1050	1.41	1.221	1.41	1.55	976	82.3%	19.21
Proposed Park		MH44	HW4	-	-	100	0.00	0.00	6.26	4.06	19.21	119.45	0.956	0.013	28.2	0.2%	1050	1.41	1.221	1.41	0.33	958	78.3%	19.55
Proposed Park	105			0.17	0.77	100	0.96	0.16	0.17	0.16	10.00	168.45	0.077											
Proposed Park	106		Culvert 1	0.37	0.58	100	0.73	0.27	0.37	0.27	10.00	168.45	0.126	0.013	10.5	1.0%	375	1.59	0.175	1.59	0.11	331	71.6%	10.11
Proposed Park	107			0.01	0.90	100	1.00	0.01	0.01	0.01	10.00	168.45	0.005											
Existing Condition Park	A81			0.05	0.25	100	0.31	0.02	0.05	0.02	10.00	168.45	0.007											

TOWN APPROVAL

DISCLAIMER AND COPYRIGHT
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
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BENCHMARKS
COORDINATES ARE UTM17N; ELEVATIONS ARE GEODETIC CGVD28; LOCALIZED TO VCM 011971U181
TM-1: CUTCROSS IN CONCRETE TRANSFORMER PAD ON WEST SIDE OF DEY DRIVE (194.42M)

NOTES
EXISTING SERVICING INFORMATION FROM DEY DRIVE PLAN AND PROFILE (STA. 0+000 TO 0+360) PREPARED BY CONDELAND CONSULTING ENGINEERS AND PROJECT MANAGERS AS RECORDED DATED NOV. 24, 2023.
PARK BASE PLAN AND GRADING PREPARED BY ENVISION TATHAM.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	FIRST SUBMISSION	MAR 2025	
2.	ISSUED FOR TENDER	APR 2025	

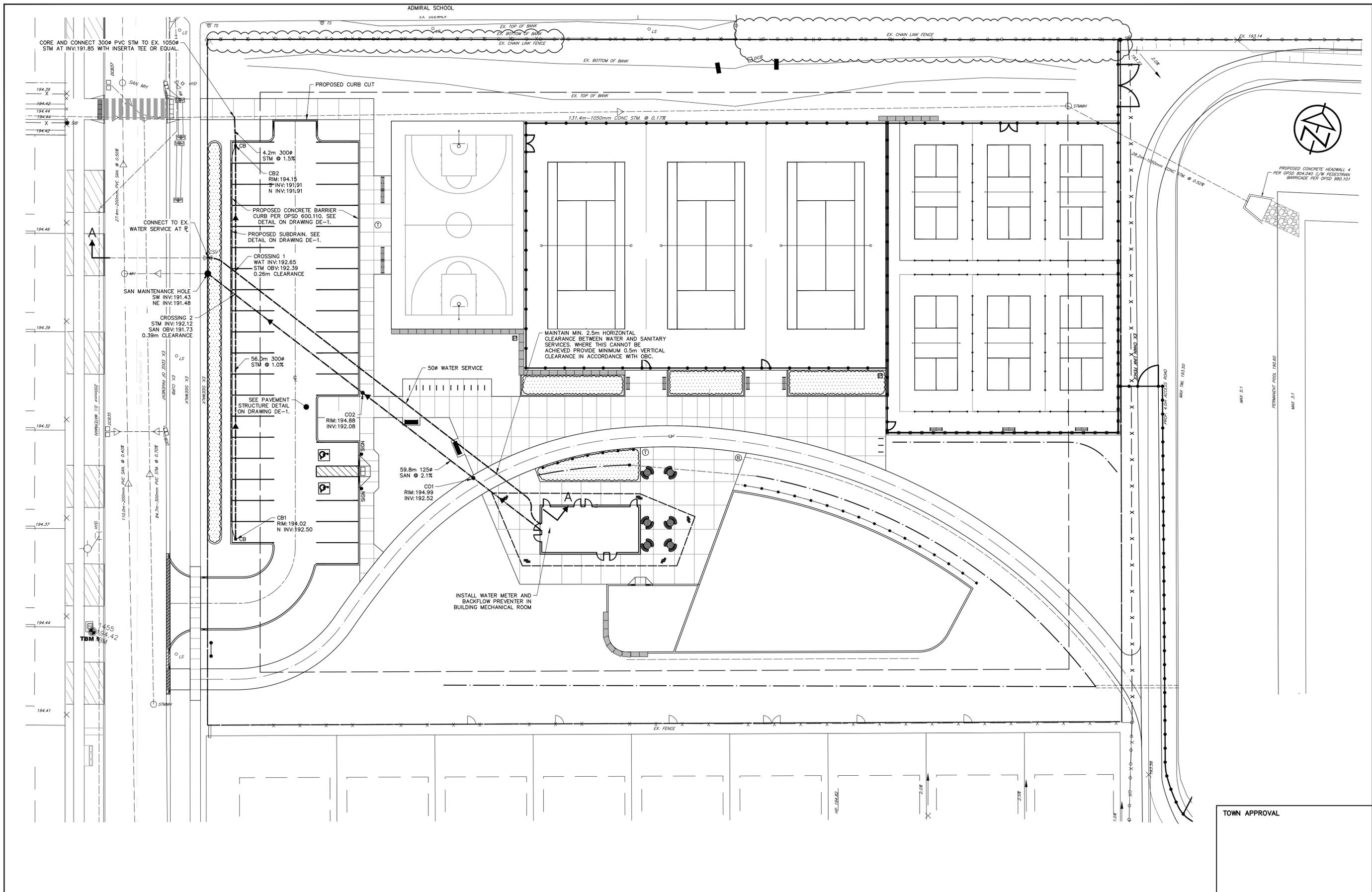


WILSON-SHEFFIELD PARK TOWN OF COLLINGWOOD

STORM SEWER DESIGN SHEET

TATHAM ENGINEERING

DESIGN: AO/KRL FILE: 123308 DWG: STM.2
DRAWN: KRL DATE: SEP. 2024
CHECK: AO SCALE:



TOWN APPROVAL

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 TBM-1: CUTCROSS IN CONCRETE TRANSFORMER PAD ON WEST SIDE OF DEY DRIVE (194.42M)

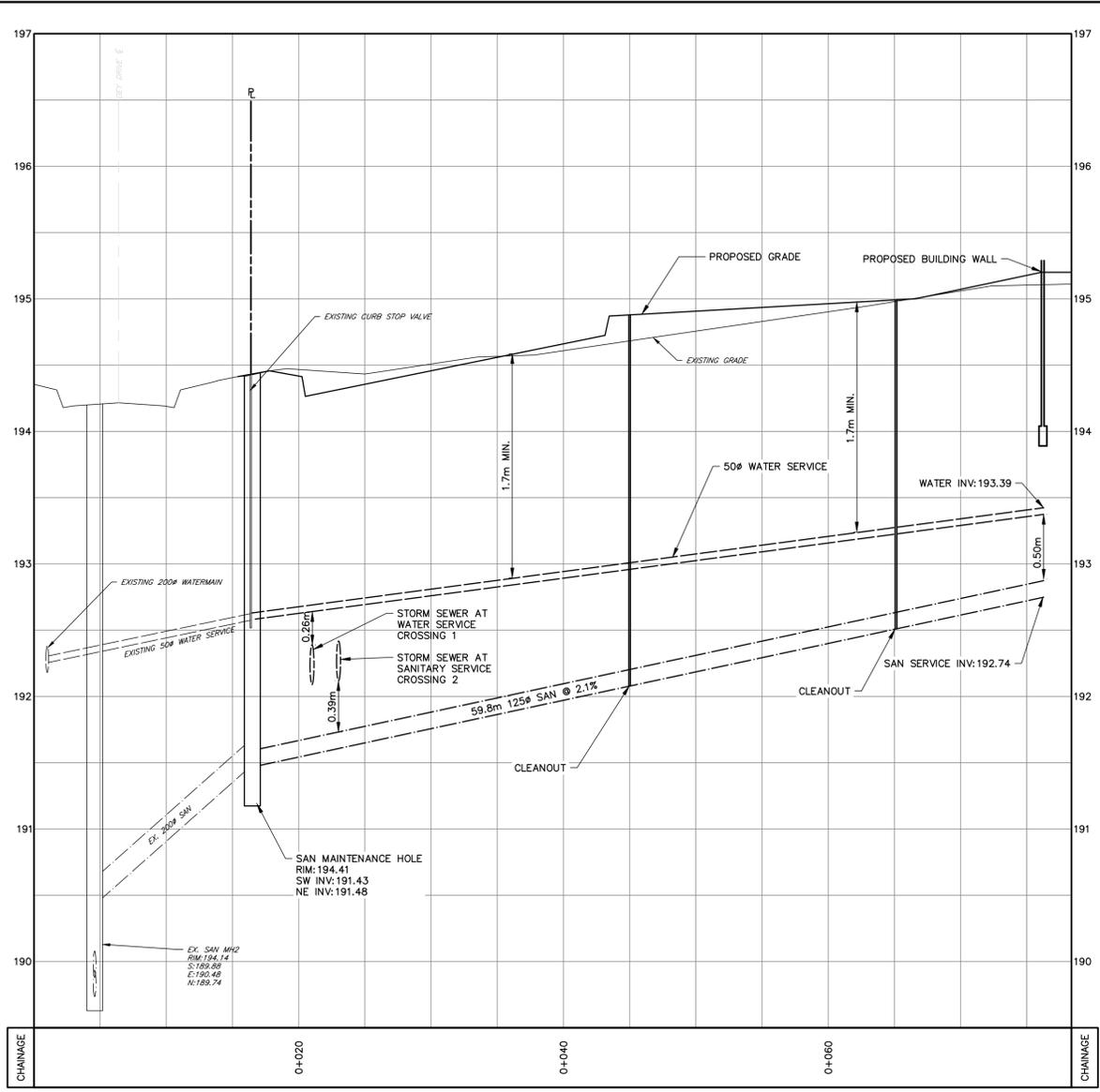
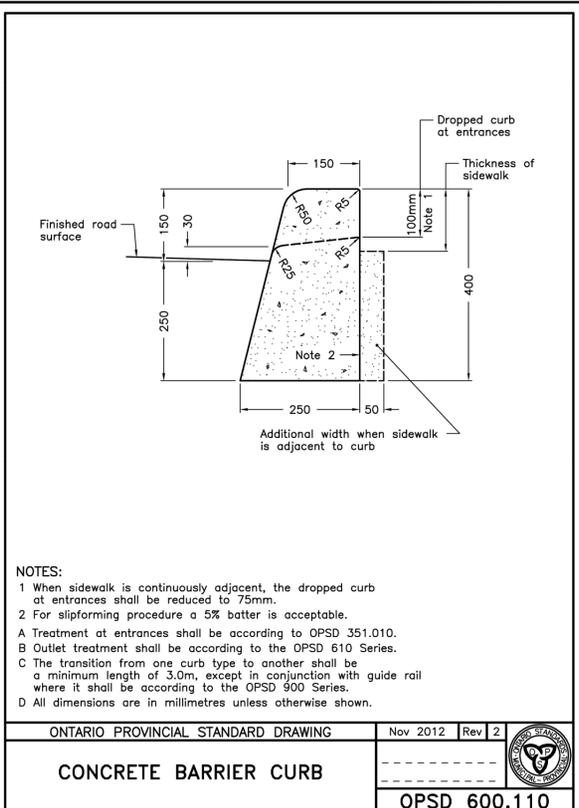
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 PARK BASE PLAN AND GRADING PREPARED BY ENVISION TATHAM.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	FIRST SUBMISSION	MAR 2025	
2.	ISSUED FOR TENDER	APR 2025	

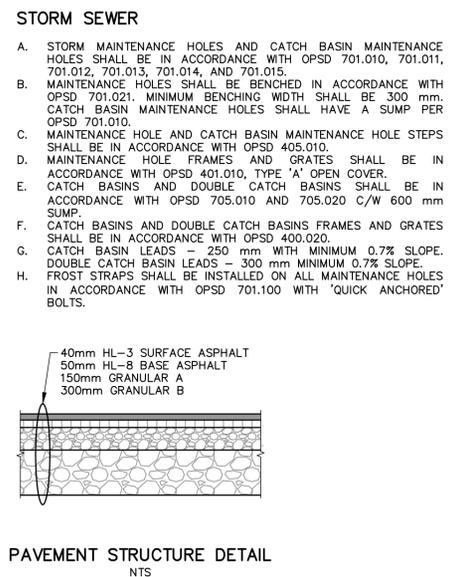
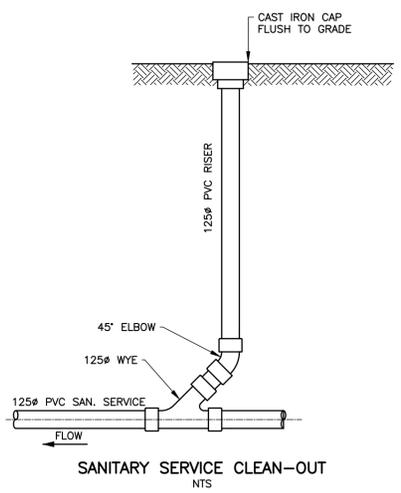
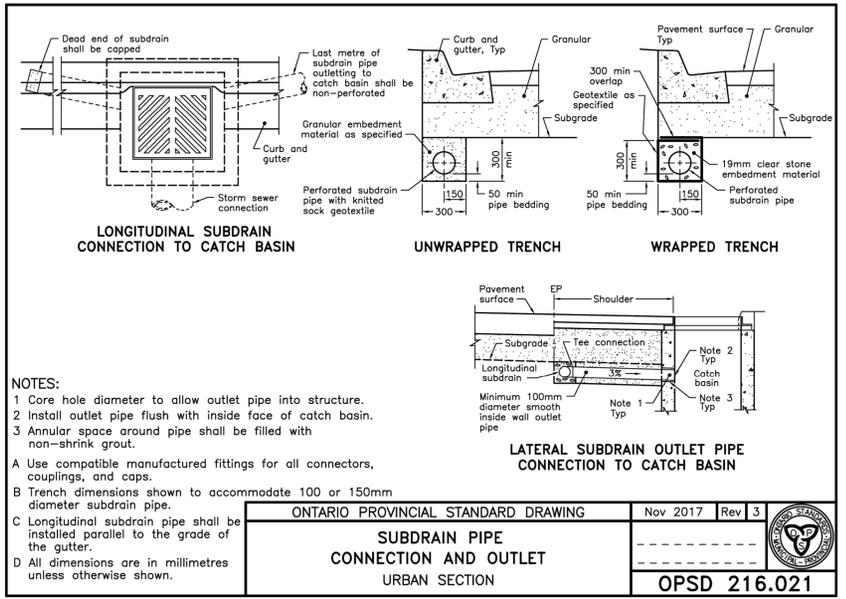
ENGINEER STAMP
 LICENSED PROFESSIONAL ENGINEER
 A. OVERHOLT
 100516012
 PROVINCE OF ONTARIO

WILSON-SHEFFIELD PARK
 TOWN OF COLLINGWOOD
SITE SERVICING PLAN

TATHAM ENGINEERING
 DESIGN: AO/KRL FILE: 123308 DWG:
 DRAWN: KRL DATE: OCT 2024 **SS.1**
 CHECK: AO SCALE: 1:250



- GENERAL**
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 - ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT TOWN OF COLLINGWOOD DEVELOPMENT STANDARDS, OPSS, OPSD AND ONTARIO BUILDING CODE. WHERE INCONSISTENCY OCCURS, TOWN STANDARDS TO GOVERN.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN ENTRANCE PERMIT FROM THE TOWN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - THE OWNER'S ENGINEER SHALL PROVIDE BENCHMARK ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK.
 - ALL PROPERTY BARS SHALL BE PRESERVED AND REPLACED BY AN OLS AT THE CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
 - DEWATERING SHALL BE CARRIED OUT IN ACCORDANCE WITH OPSS.MUNI 517 AND OPSS.MUNI 518. ALL TRENCHES SHALL BE MAINTAINED IN A DRY CONDITION. AN MECP PERMIT TO TAKE WATER (PTW) HAS NOT BEEN OBTAINED FOR THIS PROJECT.
 - ALL ENGINE DRIVEN PUMPS SHALL BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
 - GENERAL INSTALLATION AND TESTING OF SEWERS, WATERMAIN AND APPURTENANCES SHALL BE IN ACCORDANCE WITH TOWN STANDARDS AND FURTHER SUPPORTED AS NECESSARY BY OPSS 407, 408, 409 (CCTV), OPSS.MUNI.410, OPSS.MUNI 421, OPSS.MUNI 441, ONTARIO BUILDING CODE AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS.
 - MINIMUM VERTICAL SEPARATION BETWEEN SEWERS AND WATERMAIN AT CROSSINGS SHALL BE 0.50 m. MINIMUM VERTICAL SEPARATION BETWEEN SEWERS AT CROSSINGS SHALL BE 0.15 m.
 - ALL MAINTENANCE HOLES ARE 1,200 mm DIAMETER, UNLESS OTHERWISE SPECIFIED. DOUBLE CATCH BASIN MAINTENANCE HOLES ARE 1,500 mm DIAMETER, UNLESS OTHERWISE SPECIFIED.
 - PIPE SUPPORT AT ALL STRUCTURES SHALL BE IN ACCORDANCE WITH OPSS 708.020.
 - ALL SANITARY AND STORM MAINTENANCE HOLES SHALL BE PROVIDED WITH FROST STRAPS.
 - ALL MAINTENANCE HOLES AND CATCH BASIN FRAME AND GRATES SHALL BE SET TO BASE COURSE ASPHALT ELEVATION IN ACCORDANCE WITH OPSS 704.010. FRAME AND GRATES SHALL BE RAISED TO FINISHED GRADE PRIOR TO THE PLACEMENT OF SURFACE COURSE ASPHALT USING CONCRETE ADJUSTMENT UNITS. MAXIMUM COMBINED HEIGHT OF ADJUSTMENT UNITS SHALL BE 300 mm.
 - TRENCH BACKFILL SHALL BE SELECT NATIVE MATERIAL AS APPROVED BY GEOTECHNICAL ENGINEER OR IMPORTED SELECT SUBGRADE MATERIAL TO OPSS 1010. BACKFILL TO BE PLACED IN MAXIMUM 200 mm THICK LIFTS (OR AS OTHERWISE DIRECTED BY THE GEOTECHNICAL CONSULTANT) AND COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
 - PIPE EMBEDMENT SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD. BACKFILL AND EMBEDMENT TO OPSS 802.010 (FLEXIBLE PIPE), GRANULAR 'A' EMBEDMENT OR OPSS 802.031 (RIGID PIPE) CLASS 'B' GRANULAR 'A' BEDDING, GRANULAR 'B' COVER (MAX. AGGREGATE SIZE 25 mm). MINIMUM BEDDING DEPTH 150 mm, MINIMUM COVER DEPTH 300 mm ON ALL PIPES. WHERE EXCESSIVELY WET OR POOR SUBGRADE IS ENCOUNTERED AT THE INVERT LEVEL, IT MAY BE NECESSARY TO INCREASE THE BEDDING TYPE OR THICKNESS. BACKFILL AND EMBEDMENT SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND OPERATIONS SHALL BE MONITORED BY A GEOTECHNICAL TECHNICIAN.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE ENVIRONMENTAL QUALITY OF IMPORTED FILL AND SHALL PROVIDE A DOCUMENT TO CERTIFY THE MATERIAL IS FREE OF HAZARDOUS CONTAMINANTS. ALL MATERIALS SHALL ADHERE TO O. REG. 406/19.
 - DISTURBED AREAS SHALL BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
 - REINSTATEMENT OF ALL BOULEVARDS AND DITCHES SHALL INCLUDE FINE GRADING, PLACEMENT OF MINIMUM 150 mm TOPSOIL AND NURSERY SOD IN ACCORDANCE WITH OPSS 802, OPSS 803 AND OPSS.MUNI 804. SOD SHALL BE STAKED WHERE NECESSARY TO AVOID MOVEMENT.
 - TRAFFIC MARKERS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE MTO TRAFFIC CONTROL MANUAL BOOK 7.
 - LOCATIONS OF EXISTING UTILITIES ARE NOT GUARANTEED. UNDERGROUND UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF ALL EXISTING INFRASTRUCTURE/ FACILITIES AS WELL AS NOTIFYING ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND COORDINATE CONSTRUCTION ACCORDINGLY.
 - ALL ON-SITE MATERIAL SHALL BE PROPERLY STORED, SECURED, MONITORED AND COVERED AS REQUIRED. SPECIFICALLY, ALL PVC PIPE SHALL BE COVERED WHILE STORED ON-SITE.
- SANITARY SEWERS**
- SANITARY MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH OPSS 701.010.
 - MINIMUM COVER OVER WATERMAIN AND SERVICE LATERALS SHALL BE 1.7 m AT ALL POINTS. WHERE MINIMUM COVER CAN NOT BE ACHIEVED FROST PROTECTION WITH INSULATION SHALL BE PROVIDED PER DETAIL (INSET) AND AS PER MANUFACTURERS SPECIFICATIONS.
 - SEPARATION BETWEEN WATERMAINS AND SEWERS SHALL BE A MINIMUM OF 0.50 m WHERE CROSSING BELOW AND 0.15 m WHERE CROSSING ABOVE.
 - THRUST PROTECTION SHALL BE PROVIDED BY THE USE OF MECHANICAL JOINT FITTINGS AND RESTRAINERS. RESTRAINT SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - PE RESIDENTIAL SERVICE SHALL BE INSTALLED WITH 10 GAUGE, MULTI-STRAND TRACER WIRE BETWEEN HYDRANTS AND OTHER CONDUCTING APPURTENANCES. TRACER WIRE CONTINUITY MUST BE TESTED AND CERTIFIED BY THE CONTRACTOR. ALL CONNECTIONS SHALL BE MADE WITH "DRYCONN WATERPROOF CONNECTORS" OR APPROVED EQUIVALENT.
 - CATHODIC PROTECTION SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH OPSS.MUNI 442.
 - GENERAL INSTALLATION AND TESTING OF WATERMAIN SHALL BE IN ACCORDANCE WITH OPSS.MUNI 441 AND MUNICIPAL SPECIFICATIONS.
 - DISINFECTION OF THE WATERMAINS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C691 SPECIFICATIONS.
 - WATER SERVICE TO BE PRESSURE TESTED IN ACCORDANCE WITH OBC.
 - WATER VALVES SHALL BE OPERATED BY TOWN STAFF ONLY.
- MATERIALS**
- ALL MATERIALS SHALL BE CSA CERTIFIED AND IN ACCORDANCE WITH OPSS AND WITH THE TOWN DEVELOPMENT STANDARDS.
 - STORM SEWER - PVC SDR 35 OR HDPE OPEN PROFILE BELL & SPIGOT (BOSS 2000 AND MIN. PIPE STIFFNESS=320kPa OR EQUAL). ALL SEWER TO BE JOINED WITH A GASKETED BELL AND SPIGOT SYSTEM.
 - SANITARY SERVICES - PVC SDR 28 - COLOUR GREEN
 - ALL WATERMAIN MATERIALS SHALL BE IN ACCORDANCE WITH NSF60 AND NSF61.
 - WATER SERVICE - CLASS 160 PEX.
 - ALL SPECIFIED AGGREGATES SHALL BE IN ACCORDANCE WITH OPSS.MUNI1010.
 - FILTER FABRIC - TERRAFIX 270R OR APPROVED EQUIVALENT.
- PARKING LOT & CURBS**
- SUBGRADE AND BOULEVARD MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED PRIOR TO PLACING GRANULAR 'B'.
 - GRANULAR 'A' AND 'B' TO BE COMPACTED TO A DRY DENSITY OF 100% OF THE MATERIAL'S RESPECTIVE SPMDD.
 - ASPHALT TO BE COMPACTED TO A MINIMUM OF 92% OF THE MARSHALL BULK DENSITY.
 - ROADWAYS TO BE CONSTRUCTED WITH MIN. 300 MM GRANULAR 'B' TYPE 1, 150 MM GRANULAR 'A', 50 MM HL8 ASPHALT, AND 40 MM HL3 ASPHALT.
 - ALL GRANULAR AND ASPHALT MATERIAL TO BE PLACED IN ACCORDANCE WITH OPSS.MUNI 310 AND OPSS.MUNI 314.
 - ASPHALT TO BE PERFORATED OTHER THAN THE 2.0 m SECTION IMMEDIATELY UPSTREAM OF ALL STRUCTURES WHICH SHALL BE NON-PERFORATED.
 - PAVEMENT MARKINGS/LINE PAINTING TO CONFORM TO OPSS.MUNI 710 AND BE ORGANIC SOLVENT BASED TRAFFIC PAINT TO OPSS.MUNI 1712.



TOWN APPROVAL

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BENCHMARKS
 COORDINATES ARE UTM17N; ELEVATIONS ARE GEODETIC CVD28; LOCALIZED TO VCM 01971U181
 TBM-1: CUTROSS IN CONCRETE TRANSFORMER PAD ON WEST SIDE OF DEY DRIVE (194.42M)

NOTES
 EXISTING SERVICING INFORMATION FROM DEY DRIVE PLAN AND PROFILE (STA. 0+000 TO 0+360) PREPARED BY CONDELAND CONSULTING ENGINEERS AND PROJECT MANAGERS AS RECORDED DATED NOV. 24, 2023.
 PARK BASE PLAN AND GRADING PREPARED BY ENVISION TATHAM.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	FIRST SUBMISSION	MAR 2025	
2.	ISSUED FOR TENDER	APR 2025	

WILSON-SHEFFIELD PARK TOWN OF COLLINGWOOD

DETAILS AND NOTES

DESIGN: AO/KRL	FILE: 123308	DWG: DE.1
DRAWN: KRL	DATE: OCT 2024	
CHECK: AO	SCALE: AS NOTED	

GENERAL NOTES

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS PREPARED BY ALL CONSULTANTS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT AS NOTED.
- FOLLOW ALL SECTIONS, DETAILS, AND STATEMENTS NOTED AS "TYPICAL", UNLESS OTHERWISE NOTED ON DRAWINGS. TYPICAL DETAILS SHOW STRUCTURAL INTENT RATHER THAN ACTUAL CONDITIONS FOR THE PROJECT. TYPICAL DETAILS APPLY TO SIMILAR CONDITIONS THROUGHOUT THE PROJECT UNLESS OTHERWISE NOTED.
- USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR PERMIT AND/OR CONSTRUCTION"
- DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
- THE DRAWINGS SHOW THE COMPLETED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY ON THE JOB SITE AND FOR DESIGN, INSTALLATION AND SUPERVISION OF ALL TEMPORARY BRACING AND FALSEWORK TO SUIT THE CONSTRUCTION METHODS AND TO SUPPORT THE SUPERIMPOSED CONSTRUCTION LOADS. DESIGN AND FIELD REVIEW OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED AND INSURED IN THE PROVINCE OF ONTARIO.
- ALL WORK AND MATERIALS SHALL CONFORM TO REQUIREMENTS SET OUT IN THE 2024 ONTARIO BUILDING CODE.
- ALL CODES AND STANDARDS REFERENCED SHALL BE THE LATEST EDITION REFERENCED BY THE 2024 ONTARIO BUILDING CODE (DIV. B, 1.3.1.2).
- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT OF ONTARIO.
- DESIGN LOADS:
 - A) SNOW LOAD = 2.7 kPa
 - B) SURCHARGE LOAD = 2.7 kPa
 - C) WIND LOAD q1/50 = 0.39 kPa
- RETAINING WALLS HAVE BEEN DESIGNED FOR THE FOLLOWING SOIL PARAMETERS:
 - A) SOIL DENSITY = 20 kN/m³
 - B) K_a = 0.36
 - C) K_p = 2.73
- ALL PROPRIETARY PRODUCTS SPECIFIED ON THESE DRAWINGS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS. ALTERNATIVE PRODUCTS MAY ONLY BE USED WITH THE PRIOR APPROVAL OF THE STRUCTURAL CONSULTANT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING WRITTEN DOCUMENTATION AND SPECIFICATIONS AS REQUIRED BY STRUCTURAL CONSULTANT FOR EVALUATION OF SUITABILITY OF ALTERNATE PRODUCTS.
- DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL CONSULTANT UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL REQUIRED EROSION AND SEDIMENT CONTROLS ARE INSTALLED BEFORE WORK BEGINS, MAINTAINED THROUGHOUT THE DURATION OF THE WORK AND REMOVED ONLY AFTER THE WORK AREA HAS BEEN STABILIZED.
- DRAINAGE COLLECTION SHALL BE 100mm DIAMETER, PERFORATED, HDPE PIPE WITH A MINIMUM STIFFNESS OF 150kPa, COMPLETE WITH A NON-WOVEN GEOTEXTILE COVERING. DAYLIGHT OUTLETS SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 15.0m.
- NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE DRAINAGE AGGREGATE AND RETAINED SOIL TO PREVENT THE MIGRATION OF FINES.
- NON-WOVEN GEOTEXTILE SHALL BE TERRAFIX 270R OR APPROVED EQUIVALENT.

FOUNDATION

- GEOTECHNICAL INFORMATION IS BASED ON THE REPORT PREPARED BY GEI CONSULTANTS DATED MAY 31, 2024. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE INTERPRETATION OF THE GEOTECHNICAL INFORMATION IN THIS REPORT.
- REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION ON GEOTECHNICAL CONDITIONS, FOUNDATION RECOMMENDATIONS, AND FOR ALL EARTHWORK INCLUDING EXCAVATION, BACKFILL, AND SUBGRADE PREPARATION.
- ALL FOUNDATION STRUCTURES TO BE FOUND ON DRY UNDISTURBED NATIVE SOIL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 100 KPA (SLS), AND 150 KPA (ULS).
- CENTER FOOTINGS AND PIER UNDER CENTROID OF FENCE POSTS, UNLESS OTHERWISE NOTED.
- KEEP EXCAVATION DRAINED AND FREE OF WATER AT ALL TIMES. REFER TO GEOTECHNICAL REPORT FOR REQUIRED DEWATERING PROCESS.
- FOR FROST PROTECTION, MINIMUM DISTANCE FROM FINISHED GRADE TO UNDERSIDE OF PERIMETER FOOTINGS AND FOOTINGS IN UNHEATED AREAS TO BE NOT LESS THAN 1200MM.
- PROTECT FOOTINGS, WALLS AND ADJACENT SOIL FROM FREEZING AND FROST ACTION AT ALL TIMES DURING CONSTRUCTION. DO NOT POUR CONCRETE AGAINST FROZEN EARTH.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL BE NEW STOCK AND CONFORM TO THE FOLLOWING GRADES AND STANDARDS:
 - A) CAN/CSA G40.21 TYPE 350W UNLESS OTHERWISE NOTED
 - B) STEEL PIPE: ASTM A53 GRADE B
- ALL ANCHOR RODS, NUTS AND WASHERS SHALL CONFORM TO ASTM A36 OR ASTM A307.
- ALL STRUCTURAL STEEL SHALL BE FABRICATED & ERECTED IN ACCORDANCE w/ CAN/CSA S16.
- ALL BOLTS, NUTS AND WASHERS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM F3125.
- NO HOLES SHALL BE CUT IN THE STRUCTURAL STEEL WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL CONSULTANT. NO STRUCTURAL STEEL SHALL BE CUT IN THE FIELD UNLESS REVIEWED AND APPROVED BY THE STRUCTURAL CONSULTANT.
- SUBSTITUTIONS FOR STEEL SECTIONS SHOWN ON DRAWINGS SHALL NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL CONSULTANT.
- ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CSA W59 BY A FABRICATOR FULLY APPROVED UNDER CSA W47.1, DIVISION 1 OR 2.
- OTHER THAN SITE WELDS SHOWN ON THE CONTRACT DRAWINGS/SHOP DRAWINGS; DO NOT WELD ON SITE WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL CONSULTANT. WHEREVER POSSIBLE, LOCATE SITE WELDS IN POSITIONS FOR DOWN HAND WELDING.
- ALL EXTERIOR EXPOSED STEEL SHALL BE PROTECTED BY HOT DIP GALVANIZING.

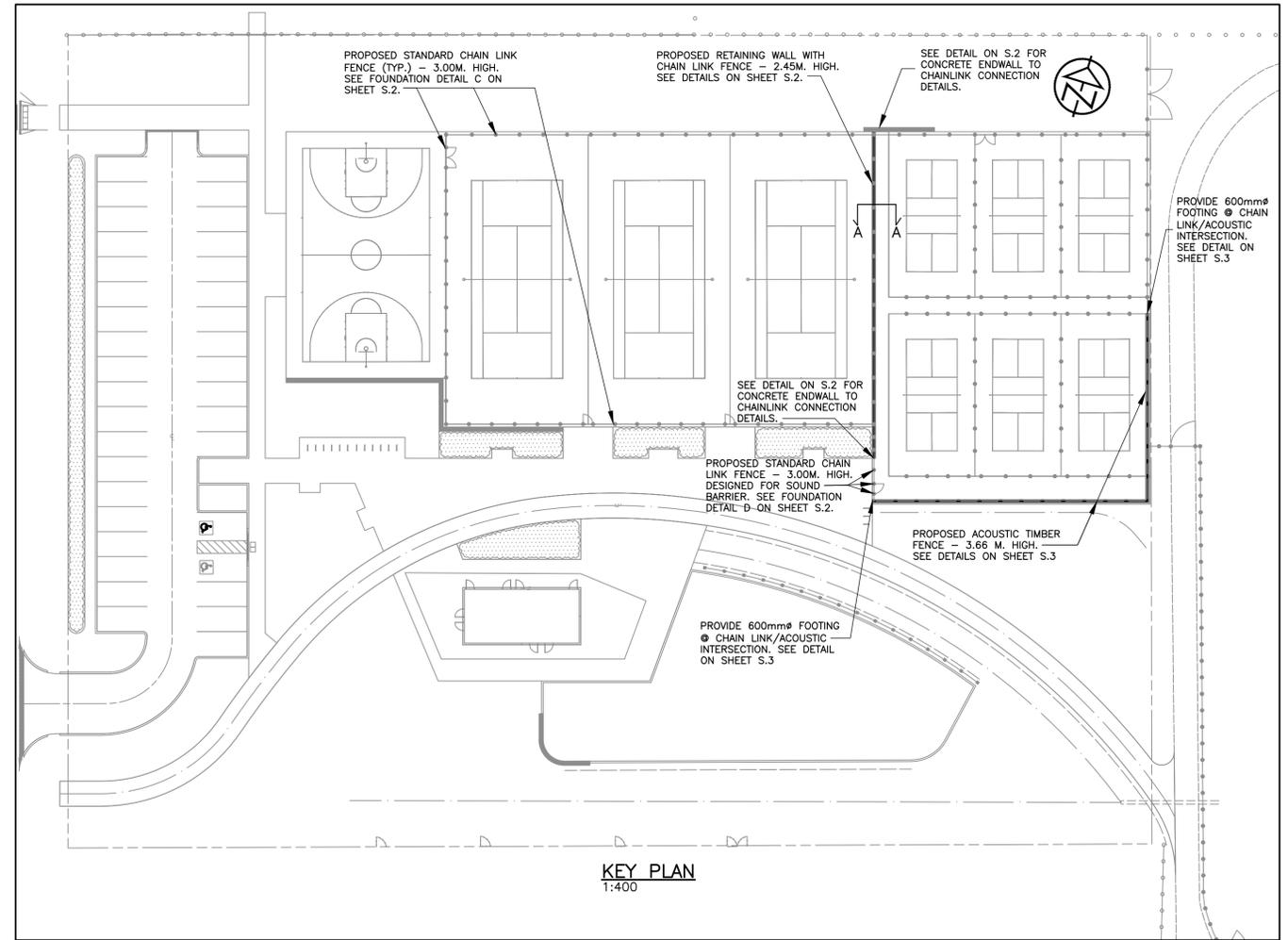
CONCRETE

CONCRETE	EXPOSURE CLASS	MIN. 28 DAY COMPRESSIVE STRENGTH (MPa)	AIR CONTENT CATEGORY
1) FOOTINGS	N	30	-
2) RETAINING WALLS/PIERS	F-2	30	2

- ALL CONCRETE SHALL CONFORM TO CAN/CSA-A23.1. AND BE READY MIX.
- CONCRETE SHALL BE PROPORTIONED IN ACCORDANCE WITH CAN/CSA A23.1 AS FOLLOWS:
- ALL CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CAN/CSA-A23.2.
- CONCRETE PROTECTIVE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
 - A) EXPOSED FILL - U/S OF FOOTING 75mm
 - B) FORMED AND AGAINST FILL 50mm
 - C) WALLS-EXTERIOR 50mm
 - D) GRADE BEAMS/STRIP FOOTINGS 50mm
- ALL EXPOSED CORNERS OF CONCRETE SURFACES TO HAVE 19mm x 19mm CHAMFER.
- AT LEAST 48 HOURS SHALL ELAPSE BETWEEN THE CASTING OF ADJACENT WALL UNITS.
- PROVIDE VERTICAL CONTROL JOINTS IN ACCORDANCE WITH CAN/CSA-A23.1 @ 8500 o.c. MAX.
- ALL CONCRETE ADDITIVES SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT
- NO CONCRETE SHALL BE POURED WITHOUT PRIOR REVIEW OF THE STRUCTURAL CONSULTANT. THE CONTRACTOR SHALL REQUEST THE REVIEW TO THE CONSULTANT 48 HOURS MINIMUM PRIOR TO THE INTENDED CONCRETE POUR TIME.
- ALL CONCRETE SHALL BE TESTED BY A CSA CERTIFIED OR IAS ACCREDITED CONCRETE TESTING LABORATORY.
- FOR COMPRESSIVE STRENGTH TESTING OF CONCRETE A MINIMUM OF 3-150mmx600mm CYLINDERS ARE REQUIRED:
 - A) EACH TYPE OF GRADE OF CONCRETE
 - B) FROM EACH CHANGE OF SUPPLIER
 - C) EACH 20cu.m. OR FRACTION THEREOF FOR COLUMNS AND SHEAR WALLS
 - D) EACH 50cu.m. OR FRACTION THEREOF FOR FOOTINGS, FOUND. WALLS, SLABS & BEAMS
- ADDITIONAL TEST SPECIMENS SHALL BE TAKEN WHENEVER REQUESTED BY THE STRUCTURAL CONSULTANT OR THE SUPERVISOR TO VERIFY THE CONCRETE QUALITY.
- ALL CONCRETE SHALL BE WET CURED FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT OF CONCRETE. CURING SHALL CONFORM TO CAN/CSA-A23.1.
- ALL DOWELS, ANCHOR BOLTS, AND OTHER CAST-IN-PLACE HARDWARE SHALL BE POSITIONED PRIOR TO COMMENCING CONCRETE POUR. WET-SETTING IS NOT PERMITTED.
- USE HIGH FREQUENCY VIBRATION TO PLACE ALL CONCRETE. EXTRA CARE SHALL BE TAKEN WHEN PLACING AND VIBRATING CONCRETE TO ENSURE HOMOGENEOUS DISTRIBUTION OF CONCRETE MIX IN COLUMN AND WALLS.
- CONSTRUCTION JOINTS SHALL BE LOCATED AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE. REINFORCEMENT SHALL BE CONTINUOUS FOR A MINIMUM OF 650mm EACH SIDE OF JOINT. PROVIDE A 50mmx100mm SHEAR KEY WHERE REINFORCEMENT IS NOT PRESENT.

CONCRETE REINFORCEMENT

- ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 400 MPA AND SHALL CONFORM TO CAN/CSA G30.18.
- ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, PLACED AND SUPPORTED IN ACCORDANCE WITH REINFORCING STEEL MANUAL OF STANDARD PRACTICE BY THE REINFORCING STEEL INSTITUTE OF CANADA AND CAN/CSA-A23.3.
- UNLESS NOTED OTHERWISE, REINFORCING BARS SHALL BE LAPPED AS FOLLOWS WHEN SPICED:
 - 10M 450mm
 - 15M 630mm
 - 20M 840mm
 - 25M 1320mm
- THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION DURING PLACEMENT OF CONCRETE TO ENSURE THAT THE REINFORCING STEEL IS MAINTAINED IN ITS CORRECT POSITION THROUGHOUT THE PREPARATION AND PLACEMENT OF CONCRETE.
- REINFORCING STEEL THAT IS STORED ON SITE IS TO BE PLACED ON BLOCKS SO THAT IT IS NOT IN DIRECT CONTACT WITH THE GROUND AND SHALL BE PROTECTED FROM RAIN AND SNOW WITH THE USE OF TARPULINS.
- STIRRUPS/HAIRPIN TIES SHALL BE FABRICATED FROM A CONTINUOUS REINFORCING BAR.
- CUTTING OR WELDING OF REINFORCEMENT IS NOT PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL CONSULTANT
- ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETE PLACEMENT BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS AT 1000mm MAXIMUM CENTERS. THE CHAIR MATERIAL SELECTED SHALL SUIT THE EXPOSURE CONDITIONS.
- PROVIDE MIN. 48 HOURS NOTICE PRIOR TO CLOSING FORMS OR PLACING CONCRETE TO ALLOW FOR FIELD REVIEW OF THE REINFORCING STEEL BY THE STRUCTURAL CONSULTANT.
- ALL REINFORCING STEEL IS TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING THAT COULD AFFECT BONDING CAPACITY.
- CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS, AND TIE WIRE SHALL COMPLY WITH THE REQUIREMENTS OF THE REINFORCING STEEL MANUAL OF STANDARD PRACTICE AND SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE REINFORCING STEEL IN ITS CORRECT POSITION THROUGHOUT THE CONCRETE PLACEMENT PROCESS.
- REINFORCING STEEL SHALL NOT BE FIELD BENT WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL CONSULTANT.

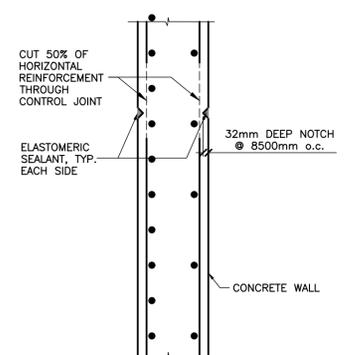


FORMWORK

- DESIGN, SUPPLY, CONSTRUCTION AND REMOVAL OF FORMWORK AND FALSEWORK. FRAMING SUPPORTS TO CONFORM TO REQUIREMENTS SPECIFIED IN CAN/CSA-A23.1, AND CSA S269.1. PROVIDE FINISHED POURED CONCRETE SURFACES WITHIN SPECIFIED TOLERANCES.
- ALLOWABLE TOLERANCES TO REQUIREMENTS OF CAN/CSA-A23.1.
- PROVIDE 19mmx19mm CHAMFER AT ALL EXPOSED EDGES AND CORNERS UNLESS OTHERWISE SHOWN ON THE DRAWINGS. ALL INSIDE EDGES AND CORNERS MUST BE CHAMFERED.
- INSTALL ITEMS SUPPLIED BY OTHERS SUCH AS INSERTS, ANCHORS, BOLTS, MISCELLANEOUS FRAMES, REGLETS, RECESSES, HOLES, SLEEVES, DOVETAIL ANCHOR SLOTS AND OTHER COMPONENTS AS SHOWN ON THE DRAWINGS.
- APPLY FORM RELEASE AGENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. CLEAN FORMS PRIOR TO PLACING CONCRETE AND REMOVE ICE AND SNOW WITHIN FORMS DURING COLD WEATHER.
- DO NOT REMOVE FORMWORK BEFORE THE CONCRETE HAS SET AND REACHED 70% OF ITS 28 DAY DESIGN STRENGTH:
 - A) SIDES OF BEAMS, COLUMNS AND WALLS -3 DAYS
- LOCATE CONSTRUCTION JOINTS SO AS TO AT LEAST IMPAIR THE STRENGTH OF THE STRUCTURE & TO THE STRUCTURAL CONSULTANT'S APPROVAL. KEY CONSTRUCTION JOINTS WITH 15M DOWELS x1050mm LONG AT 600mm o.c. DO NOT INTERRUPT REINFORCING.
- REMOVE ALL FINIS FROM VISIBLE SURFACES. FILL ALL THE HOLES WITH PLASTIC PLUGS, CAULKING AND NON-SHRINK GROUT.

WOOD FRAMING

- ALL WOOD AND ENGINEERED LUMBER COMPONENTS SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH CAN/CSA-086 AND THE ONTARIO BUILDING CODE OBC PART 9.
- ALL LUMBER SHALL BE NO. 1/2 GRADE SPF IN ACCORDANCE WITH CSA O86, UNLESS NOTED OTHERWISE.
- ROUGH CARPENTRY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF OBC PART 9 UNLESS NOTED OTHERWISE
- ALL WOOD MEMBERS SHALL BE PRESSURE TREATED WITH MICROPRO SIENNA UNLESS NOTED OTHERWISE
- WHERE PRESSURE TREATED WOOD IS LESS THAN 6" ABOVE GRADE OR EMBEDDED ON CONCRETE, GROUND PROTECTION TREATMENT IS REQUIRED AS PER OBC 9.3.2.9.
- NON-TREATED WOOD IN CONTACT WITH CONCRETE OR STONE SHALL BE PROTECTED BY SILL GASKET OR 6 MIL. POLY.
- FASTENERS AND HARDWARE USED IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED.
- ALL LUMBER FASTENING SHALL BE IN ACCORDANCE WITH OBC PART 9 OR MANUFACTURER'S SPECIFICATIONS, UNLESS NOTED OTHERWISE. ALL NAILS, SPIKES, AND STAPLES SHALL BE IN ACCORDANCE WITH OBC 2024, 9.23.3.
- SPECIFIED CONNECTORS SHALL BE SIMPSON STRONG-TIE OR APPROVED EQUIVALENT
- THE WORK SHALL BE LAID OUT TRUE TO LINE AND LEVEL, PLUMB & TRUE. STRUCTURAL SUPPORTS & MEMBERS SHALL BE ACCURATELY PLACED IN POSITION AND SECURELY BRACED TO REMAIN PLUMB AND TRUE UNTIL PERMANENTLY FIXED.
- SELECT BOARDS FOR GOOD APPEARANCE. ALL MEMBERS SHALL BE FREE OF WANES AND BARK. ALL TORN GRAIN SHALL BE PLANED OR SANDED SMOOTH. MEMBERS EXHIBITING MODERATE OR HEAVY KNOTS SHALL BE WELL-DISTRIBUTED THROUGHOUT THE FENCE FACE.



DISCLAIMER AND COPYRIGHT

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BENCHMARKS

NOTES

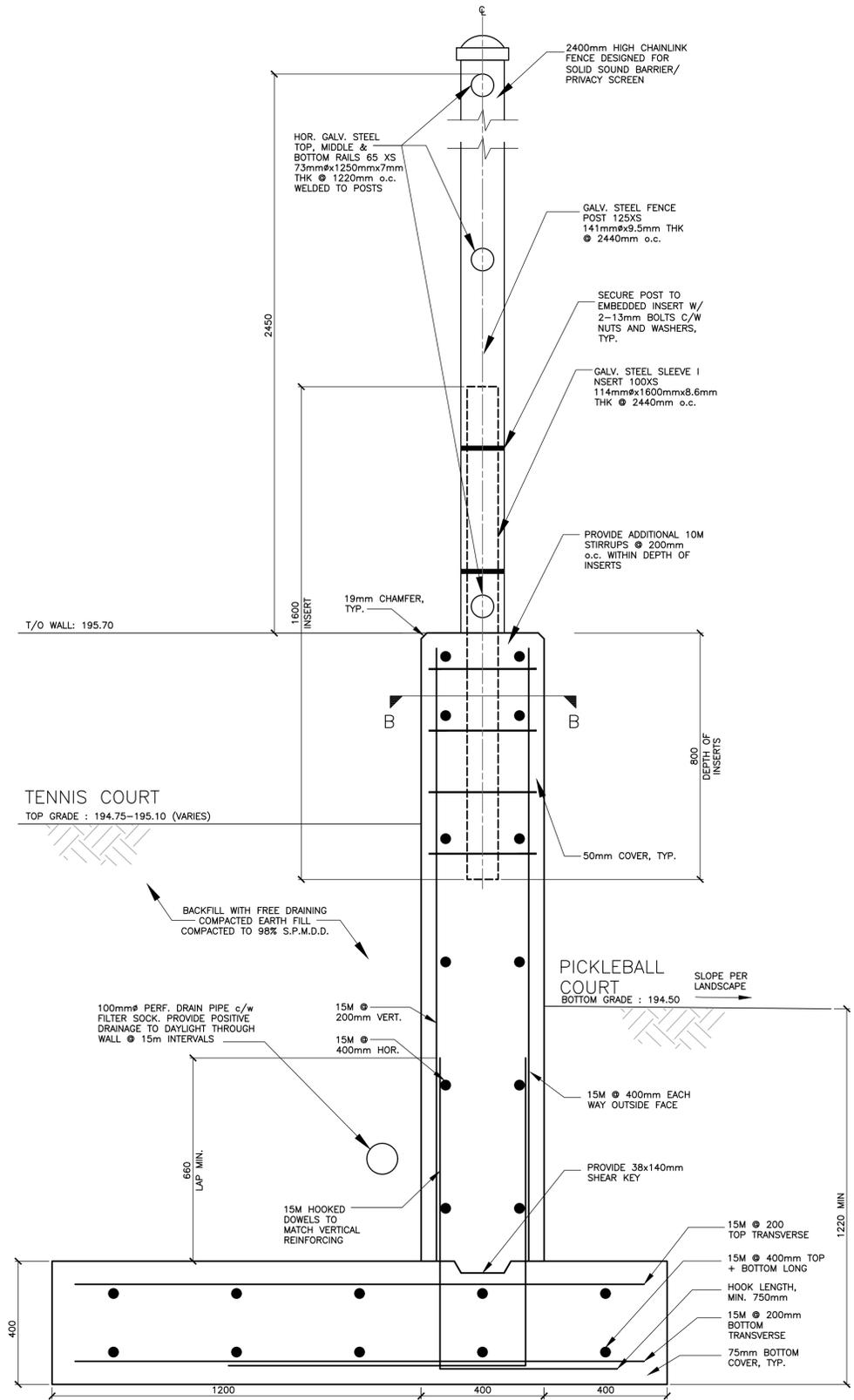
No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	60% DRAFT SUBMISSION	FEB/2025	
2.	ISSUED FOR SITE PLAN APPROVAL	MAR/2025	
3.	ISSUED FOR TENDER	APR/2025	

WILSON-SHEFFIELD PARK & WASHROOM BUILDING TOWN OF COLLINGWOOD

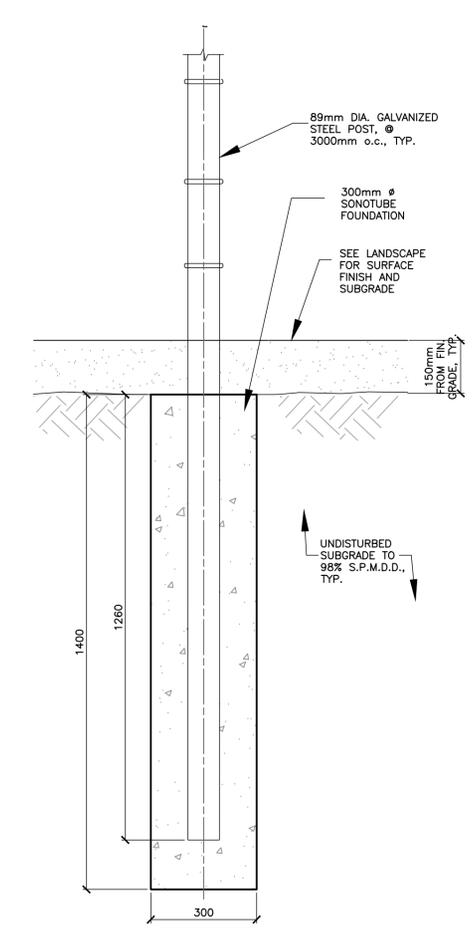
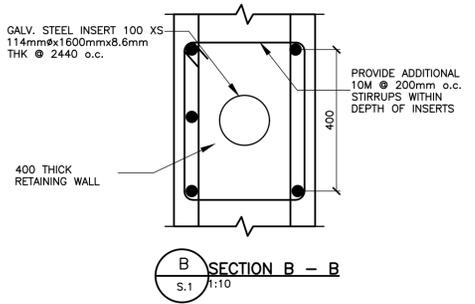
KEY PLAN, TYP. DETAILS & GENERAL NOTES



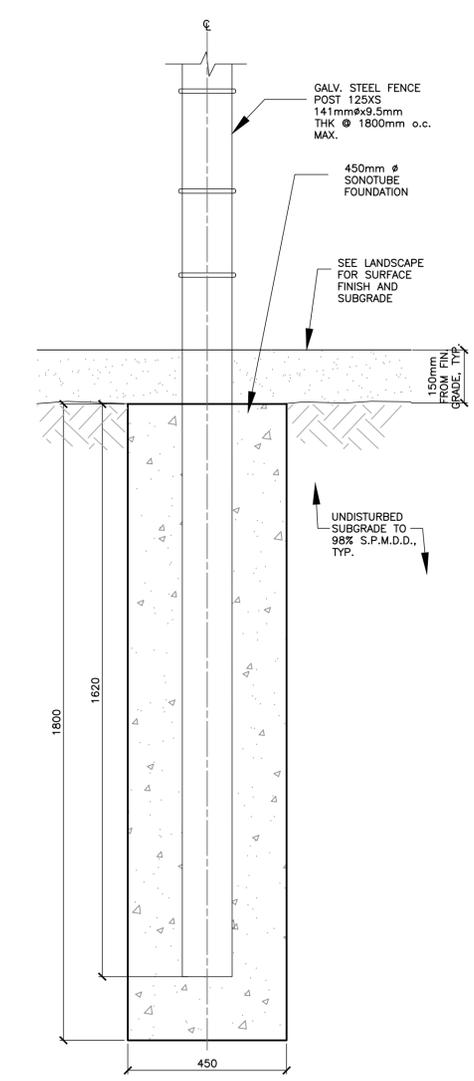
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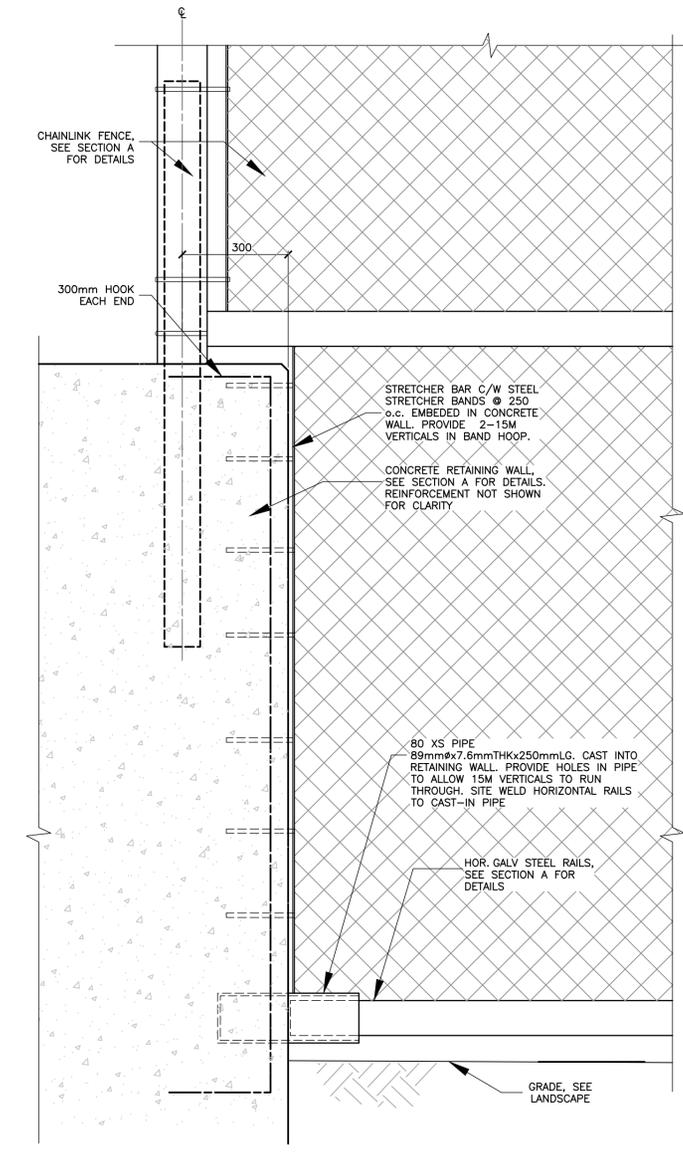
A TYP. SECTION OF RETAINING WALL
S.1 1:10



C 3.0m HIGH CHAINLINK FENCE FOUNDATION (TYP.)
S.1 1:10



D 3.0m HIGH CHAINLINK FENCE FOUNDATION
S.1 1:10



END WALL CHAINLINK CONNECTION DETAIL
1:10

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3.	ISSUED FOR TENDER	APR/2025

ENGINEER STAMP

WILSON-SHEFFIELD PARK & WASHROOM BUILDING TOWN OF COLLINGWOOD

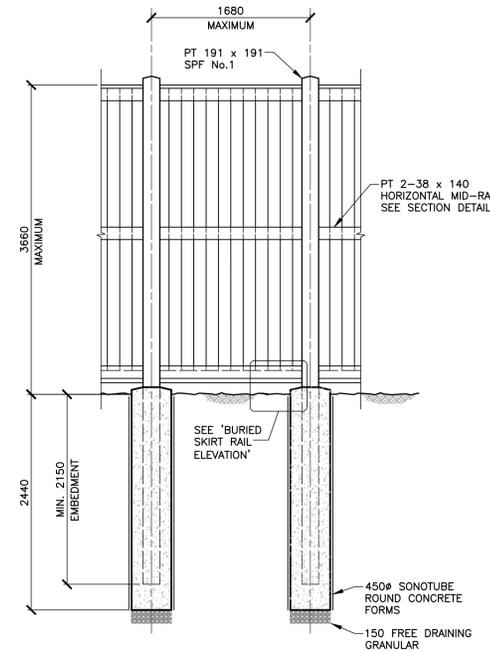
RETAINING WALL & CHAIN LINK FENCE DETAILS

TATHAM ENGINEERING

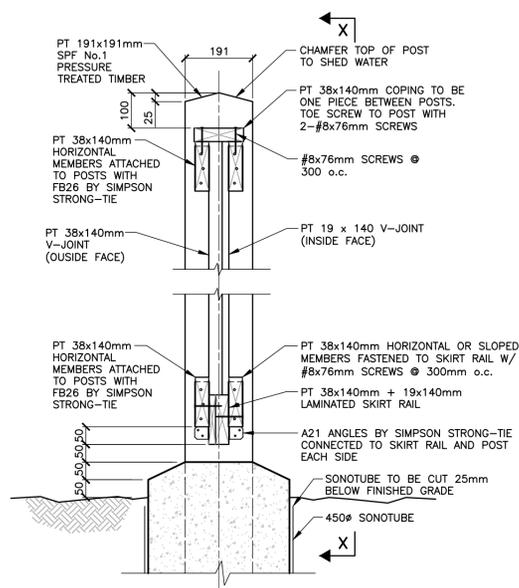
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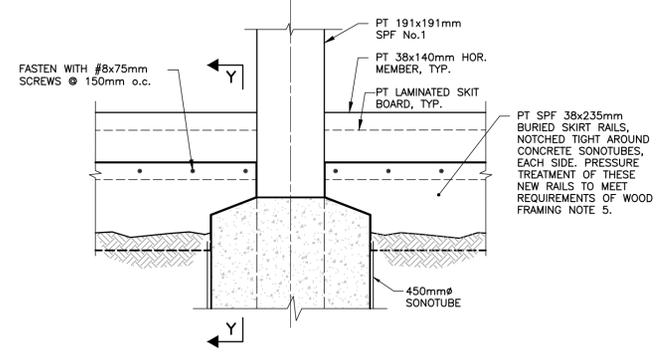
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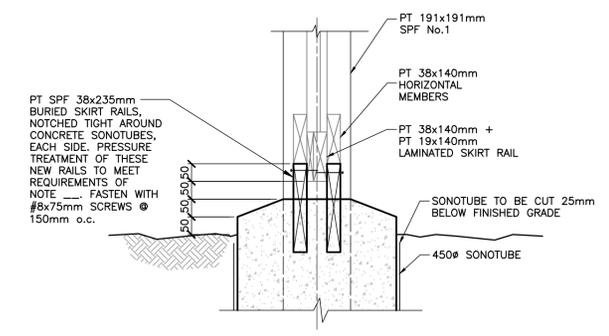
TYP. ACOUSTIC FENCE ELEVATION
1:40



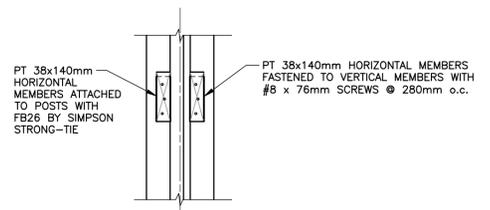
TYP. ACOUSTIC FENCE SECTION
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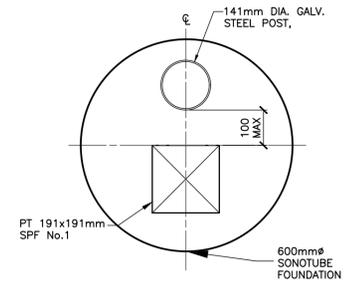
BURIED SKIRT RAIL ELEVATION
1:10



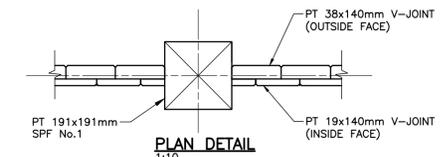
SECTION Y-Y
1:10



HORIZONTAL MID-RAIL SECTION
1:10



FOUNDATION AT CHAINLINK/ACOUSTIC FENCE INTERSECTION
1:10



PLAN DETAIL
1:10

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BENCHMARKS

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No.	REVISION DESCRIPTION	DATE
1.	60% DRAFT SUBMISSION	FEB/2025
2.	ISSUED FOR SITE PLAN APPROVAL	MAR/2025
3.	ISSUED FOR TENDER	APR/2025

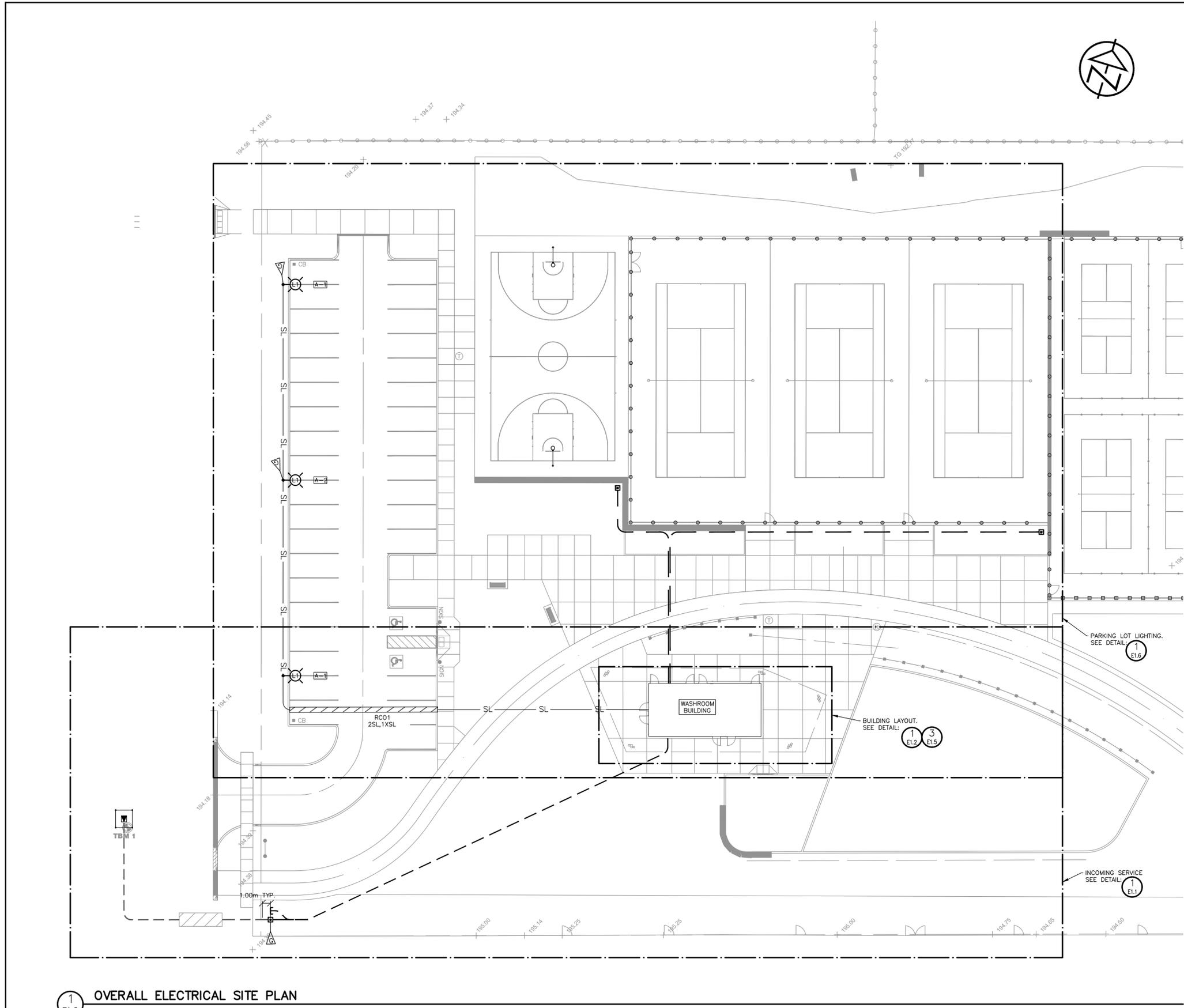
ENGINEER STAMP

WILSON-SHEFFIELD PARK & WASHROOM BUILDING
TOWN OF COLLINGWOOD

ACOUSTIC FENCE DETAILS

TATHAM ENGINEERING

DESIGN: LDP	FILE: 123308	DWG: S.3
DRAWN: MPG	DATE: JAN 2025	
CHECK: LV	SCALE: AS SHOWN	



1 OVERALL ELECTRICAL SITE PLAN
SCALE - 1:250

SINGLE LINE SYMBOLS AND CONTROL DIAGRAMS	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, MOULDED CASE WITH THERMAL & MAGNETIC TRIPS
	DRAW-OUT SYMBOLS
	FUSE
	FUSIBLE DISCONNECT SWITCH
	NON-FUSIBLE DISCONNECT SWITCH
	POWER OR DISTRIBUTION TRANSFORMER
	PILOT LIGHT, WHERE "X" INDICATES LENS COLOUR: R=RED, W=WHITE, G=GREEN
	PUSH TO TEST STYLE PILOT LIGHT
	CONTROL RELAY (# DENOTES RELAY NUMBER)
	TERMINAL BLOCK
	LIMIT OR POSITION SWITCH, N.O. AND N.C.
	CONTACT, N.O. AND N.C.
	PUSHBUTTON DEVICE, N.O. AND N.C.
	SELECTOR SWITCH, 2-POSITION & 3-POSITION
	TIMER RELAY
LIGHTING AND POWER ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	GFI TYPE DUPLEX RECEPTACLE
	JUNCTION BOX
	ELECTRICAL PANEL/ENCLOSURE
	OCCUPANCY SENSOR SWITCH C/W BACK BOX:
	LIGHT SWITCH C/W BACK BOX: - "S" INDICATES 2-WIRE SWITCH - "S3" INDICATES 3-WIRE SWITCH
	AUTOMATIC DOOR OPENER
	PUSH BUTTON FOR AUTOMATIC DOOR OPENER
	DENOTES LUMINAIRE TYPE
	DENOTES ON/OFF CONTROLS DENOTES CIRCUIT NUMBER (REFER TO PANEL WIRING DETAIL)
	HOT WATER TANK, SEE MECHANICAL DWGS
	PROPOSED POWER PEDESTAL
	PROPOSED MUNICIPAL STREET LIGHT
	PROPOSED GROUND ROD
	PROPOSED UNDERGROUND ROAD CROSSINGS (RC), DUCT BANK (TYPE DB2) FOR ELECTRICAL CABLES AS FOLLOWS: • 1SL = STREET LIGHT DUCT • 1XSL = SPARE STREET LIGHT DUCT
GENERAL SYMBOLS	
	DETAIL SYMBOL: X = DETAIL NUMBER YZ = DRAWING NUMBER
DEVICE LOCATIONS	
	DEVICE LOCATED IN MECHANICAL ROOM
	DEVICE LOCATED IN THE FIELD
DRAWING LIST	
E1.0	ELECTRICAL OVERALL SITE PLAN, LEGEND & DRAWING LIST
E1.1	ELECTRICAL POWER SITE PLAN AND SINGLE LINE DIAGRAM
E1.2	ELECTRICAL BUILDING LAYOUT-INTERIOR LIGHTING
E1.3	ELECTRICAL BUILDING LAYOUT-EXTERIOR LIGHTING
E1.4	ELECTRICAL LIGHTING SPECIFICATIONS
E1.5	ELECTRICAL BUILDING LAYOUT-POWER
E1.6	ELECTRICAL PARKING LOT LIGHTING LAYOUT
E1.7	ELECTRICAL STREET LIGHT DETAILS
E1.8	ELECTRICAL EVENT PEDESTAL DETAILS
E1.9	ELECTRICAL SPECIFICATIONS

TOWN CONTRACT: #FIN2025-006T

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BENCHMARKS

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1.	ISSUED FOR COORDINATION	OCT 2024
2.	ISSUED FOR SPA	FEB 2025
3.	REISSUED FOR SPA	MAR 2025
4.	REISSUED FOR SPA	APR 2025
5.	ISSUED FOR TENDER	APR 2025

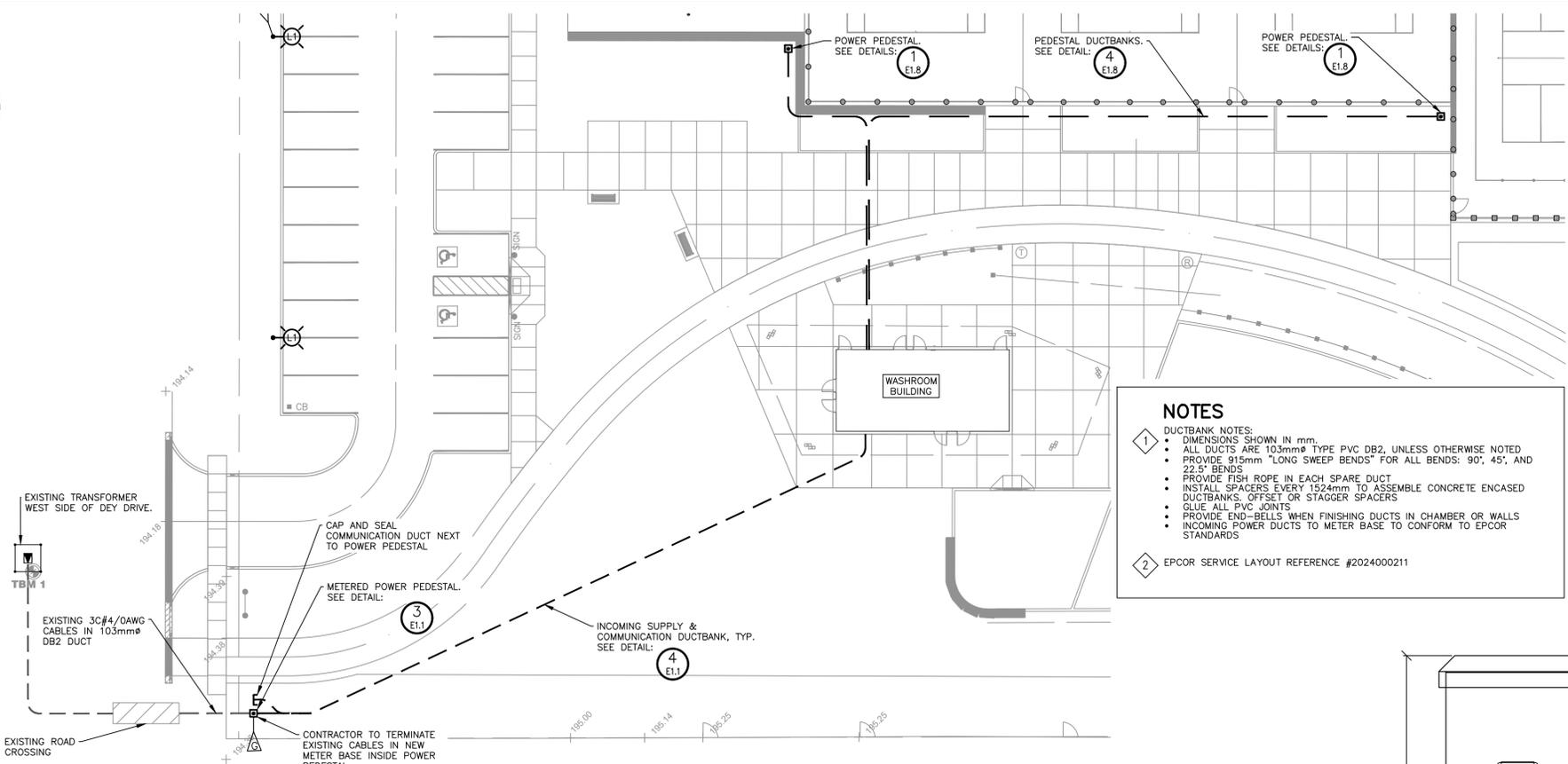
ENGINEER STAMP

WILSON-SHEFFIELD PARK & WASHROOM BUILDING
TOWN OF COLLINGWOOD

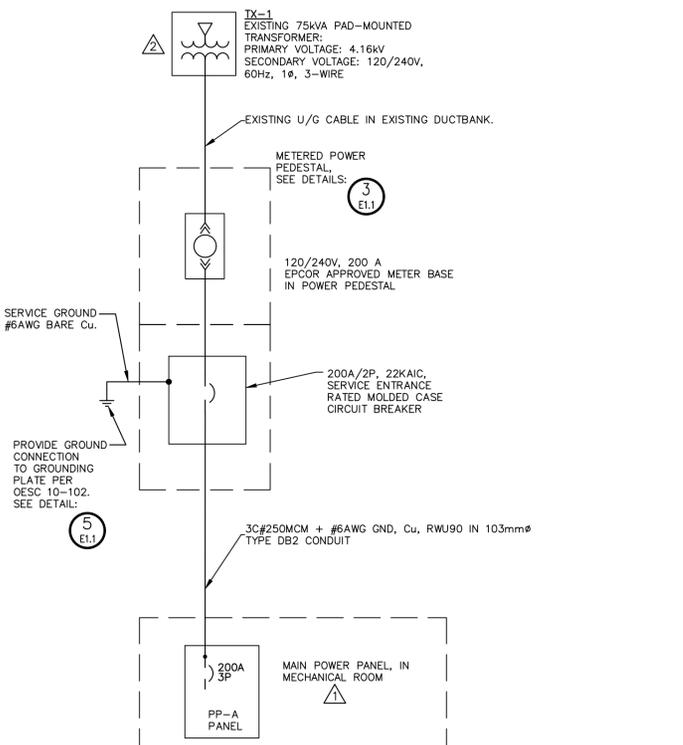
ELECTRICAL OVERALL SITE PLAN, LEGEND & DRAWING LIST

TATHAM ENGINEERING

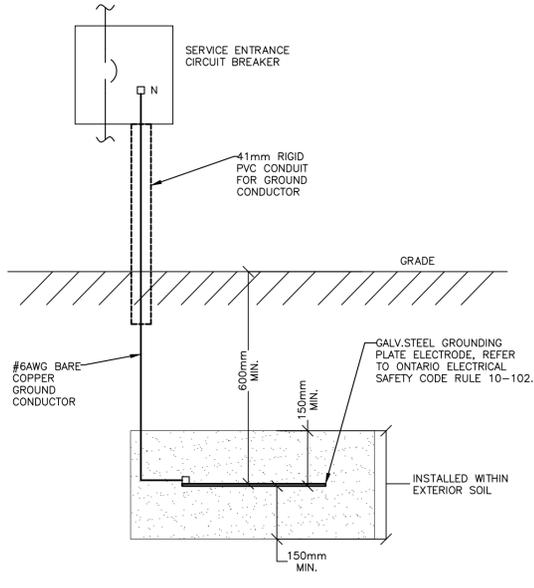
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DRAWN: HB DATE: SEP 2024
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1 SITE PLAN – INCOMING SERVICE
SCALE – 1:250



2 INCOMING SUPPLY SINGLE LINE DIAGRAM (120/240V, 3W)
NTS

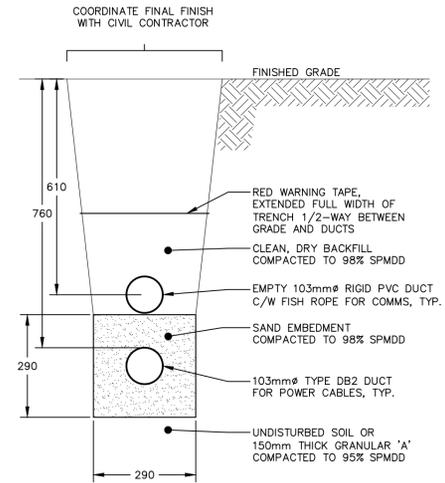


5 GROUND PLATE INSTALLATION DETAIL
NTS

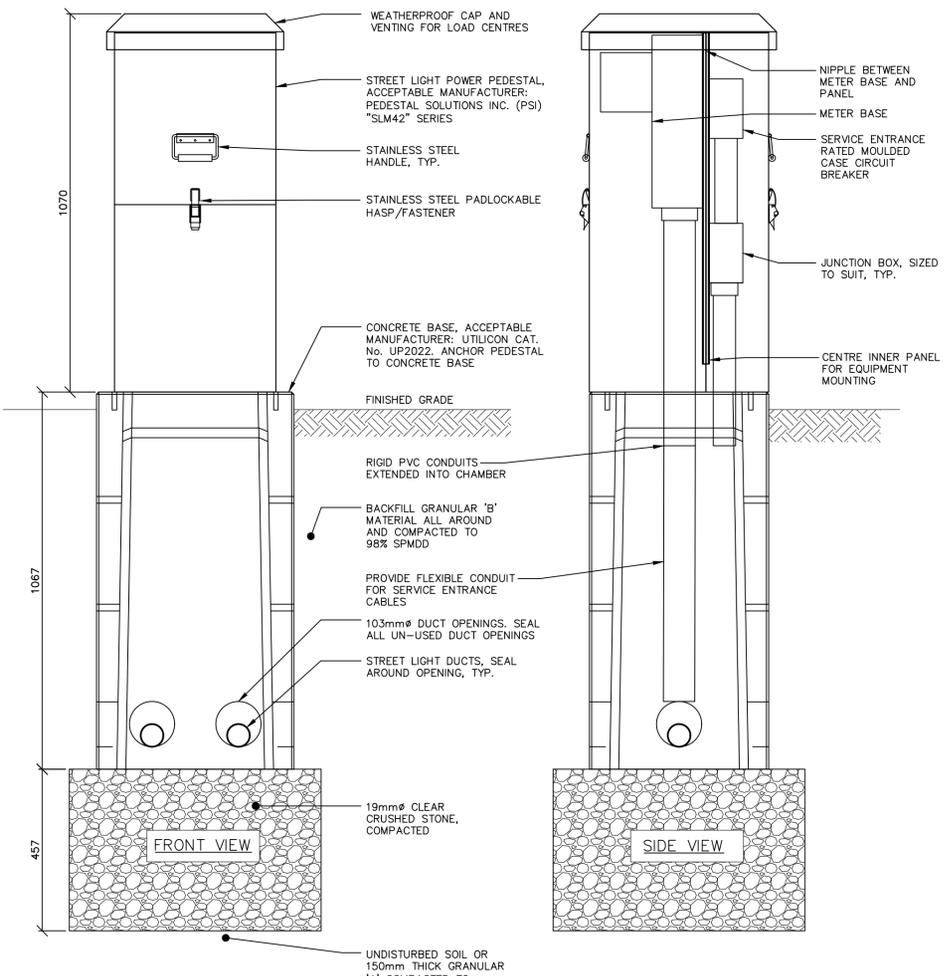
NOTES

1 DUCTBANK NOTES:
 • DIMENSIONS SHOWN IN mm.
 • ALL DUCTS ARE 103mm TYPE PVC DB2, UNLESS OTHERWISE NOTED
 • PROVIDE 915mm "LONG SWEEP BENDS" FOR ALL BENDS: 90°, 45°, AND 22.5° BENDS
 • PROVIDE FISH ROPE IN EACH SPARE DUCT
 • INSTALL SPACERS EVERY 1524mm TO ASSEMBLE CONCRETE ENCASED DUCTBANKS. OFFSET OR STAGGER SPACERS
 • GLUE ALL PVC JOINTS
 • PROVIDE END-BELLS WHEN FINISHING DUCTS IN CHAMBER OR WALLS
 • INCOMING POWER DUCTS TO METER BASE TO CONFORM TO EPCOR STANDARDS

2 EPCOR SERVICE LAYOUT REFERENCE #2024000211



4 TYPICAL INCOMING SUPPLY & COMMUNICATIONS DUCTBANK DETAIL
NTS



3 METER POWER PEDESTAL INSTALLATION DETAIL
NTS

TOWN CONTRACT: #FIN2025-006T

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3.	REISSUED FOR SPA	MAR 2025	
4.	REISSUED FOR SPA	APR 2025	
5.	ISSUED FOR TENDER	APR 2025	

ENGINEER STAMP

WILSON-SHEFFIELD PARK & WASHROOM BUILDING
 TOWN OF COLLINGWOOD

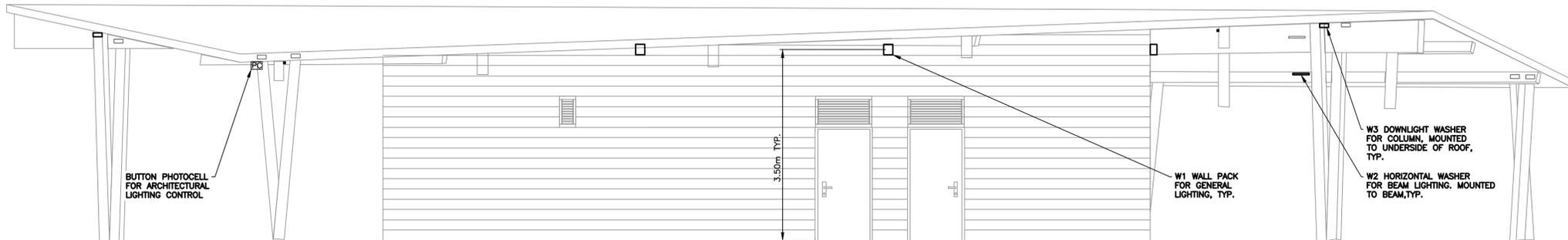
ELECTRICAL POWER SITE PLAN AND SINGLE LINE DIAGRAM

TATHAM ENGINEERING

DESIGN: AD FILE: 123308 DWG: **E1.1**
 DRAWN: HB DATE: SEP 2024
 CHECK: AD SCALE: AS SHOWN

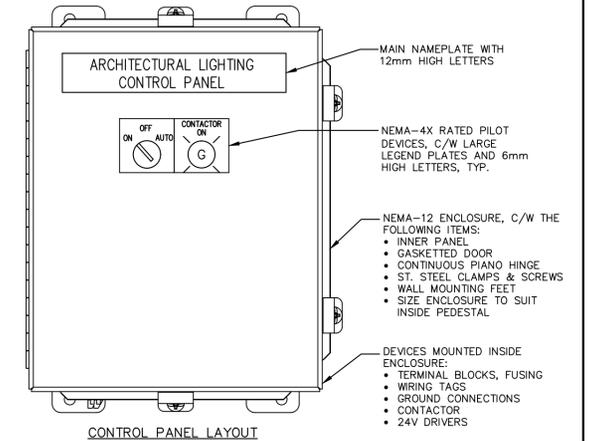
NOTES

- ◆ CONTRACTOR TO COORDINATE SWITCH LOCATION FOR NEW LIGHTS WITH CLIENT.
- ◆ CONTRACTOR TO COORDINATE LIGHTING LOCATIONS WITH CLIENT. WALL MOUNTED LUMINAIRES AT 3.8m ABOVE GRADE, TYP.
- ◆ ENSURE ALL OPENINGS ARE SEALED, WEATHER TIGHT, AND WATER PROOF
- ◆ ARCHITECTURAL LIGHTING DESIGN IS CONCEPTUAL ONLY. CONTRACTOR TO PROPOSE DESIGN AND COORDINATE WITH LIGHTING DESIGNER BASED ON FINAL BUILDING CONFIGURATION. DESIGN INTENT IS TO PROVIDE ACCENT LIGHTING OF EXPOSED BEAMS AND DOWNLIGHTING OF COLUMNS, TYP.
- ◆ DRAWINGS SHOWN ARE DIAGRAMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ACCURATE EQUIPMENT LOCATIONS

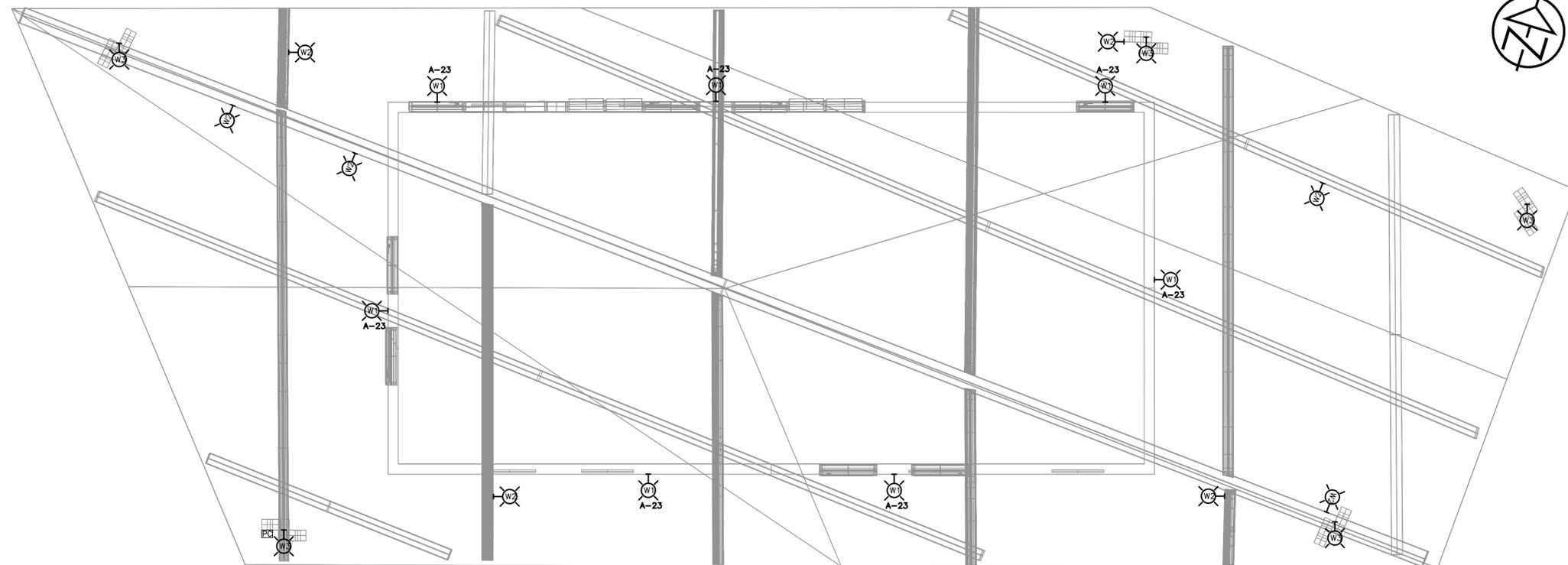


2 WASHROOM BUILDING – EXTERIOR LIGHTING SIDE VIEW LAYOUT

SCALE 1:50

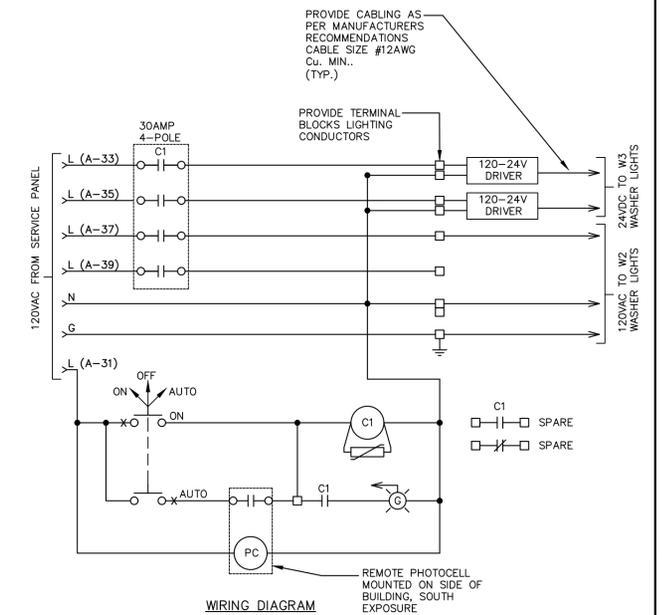


CONTROL PANEL LAYOUT



1 WASHROOM BUILDING – EXTERIOR LIGHTING PLAN VIEW LAYOUT

SCALE 1:50



WIRING DIAGRAM

3 LIGHTING CONTROL PANEL

SCALE NTS

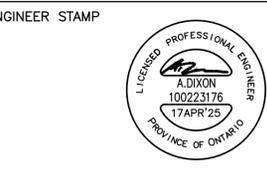
TOWN CONTRACT: #FIN2025-006T

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BENCHMARKS

NOTES
 EXISTING SERVICING INFORMATION FROM DEY DRIVE PLAN AND PROFILE (STA. 04+000 TO 04+360) PREPARED BY CONDELAND CONSULTING ENGINEERS AND PROJECT MANAGERS AS RECORDED DATED NOV. 24, 2023.

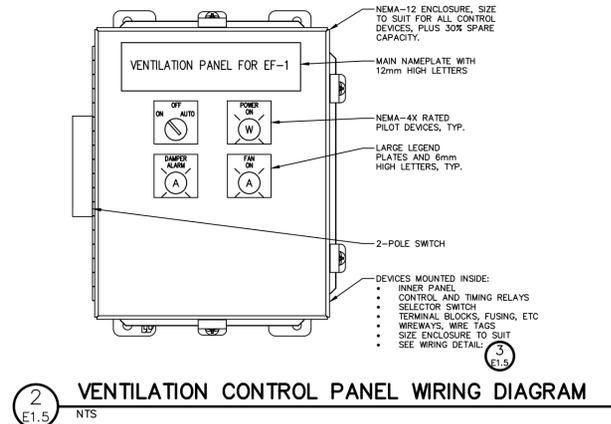
No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	ISSUED FOR COORDINATION	OCT 2024	
2.	ISSUED FOR SPA	FEB 2025	
3.	REISSUED FOR SPA	MAR 2025	
4.	REISSUED FOR SPA	APR 2025	
5.	ISSUED FOR TENDER	APR 2025	



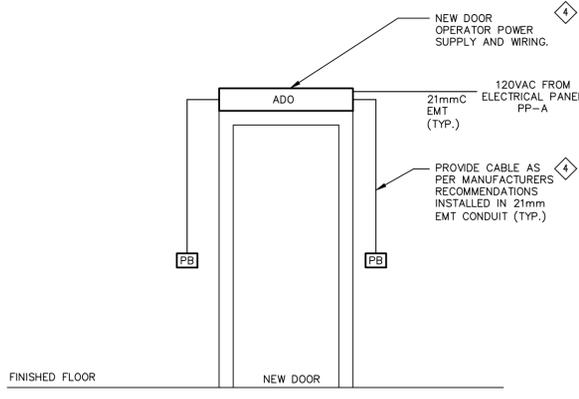
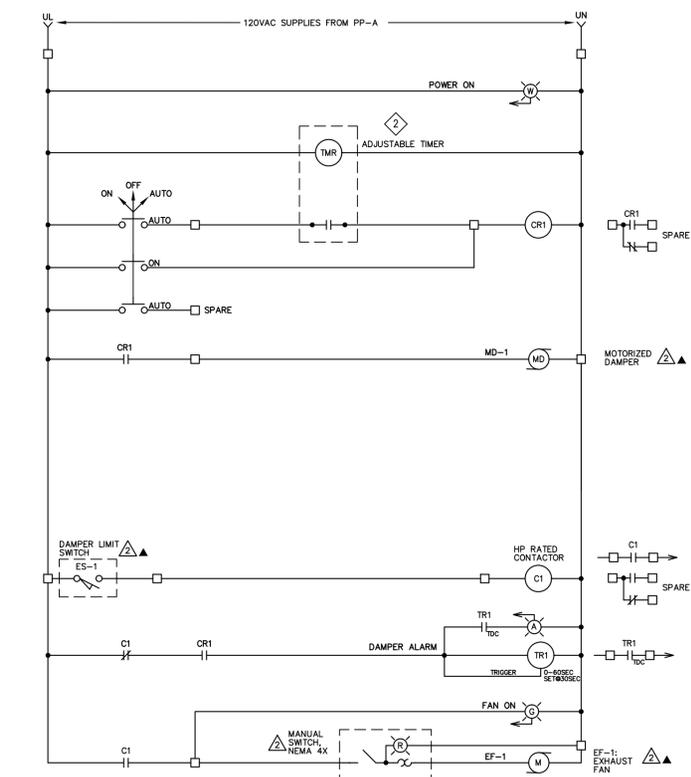
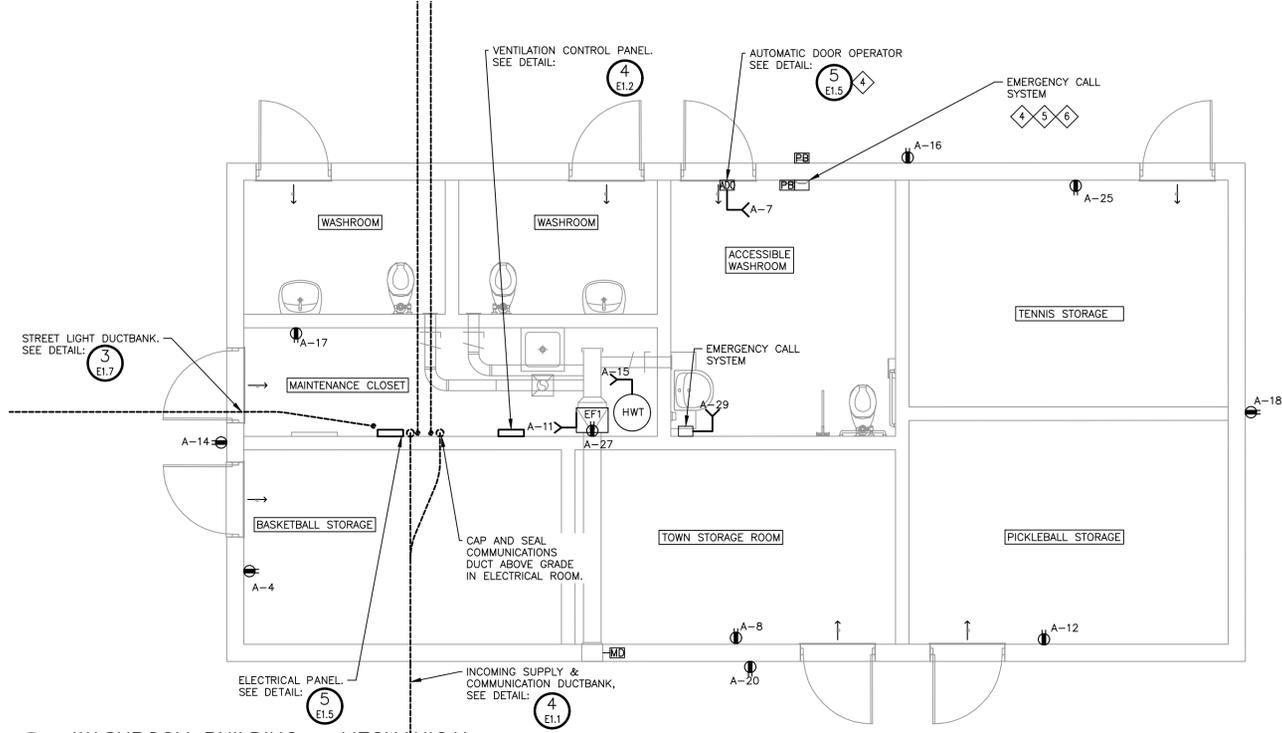
WILSON-SHEFFIELD PARK & WASHROOM BUILDING
 TOWN OF COLLINGWOOD
 ELECTRICAL BUILDING LAYOUT-EXTERIOR LIGHTING

TATHAM ENGINEERING

DESIGN: AD	FILE: 123308	DWG: E1.3
DRAWN: HB	DATE: SEP 2024	
CHECK: AD	SCALE: AS SHOWN	



- NOTES**
- ENSURE ALL OPENINGS ARE SEALED, WEATHER TIGHT, AND WATER PROOF
 - PROVIDE A TIMER TO CONTROL EXHAUST FAN TO RUN BETWEEN 8AM AND 8PM. THE RUN TIME IS TO BE ADJUSTABLE. EQUAL TO ALLEN BRADLEY TYPE 700-HX SERIES (REPEAT CYCLE).
 - DRAWING IS DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ACCURATE EQUIPMENT LOCATIONS.
 - CONTRACTOR TO PROVIDE AUTOMATIC DOOR OPENER CABLE AND CONDUIT FOR POWER CONNECTIONS AND CONTROL WIRING FOR ALL DEVICES AS PER MANUFACTURERS SPECIFICATION SHEETS FOR COMPLETE SYSTEM OPERATION CO-ORDINATE WITH LATEST DOOR HARDWARE SCHEDULE THEM ARCHITECT
 - CONTRACTOR TO PROVIDE EMERGENCY CALL SYSTEM COMPLIANT WITH ONTARIO BUILDING CODE SECTION 3.8.3.12 (2) (a) FOR BARRIER FREE UNIVERSAL WASHROOM. PROVIDE ALL REQUIRED HARDWARE AND ACCESSORIES AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. CO-ORDINATE WITH ARCHITECT FOR DOOR HARDWARE INTERCONNECTIONS IF REQUIRED.
 - CONTRACTOR TO CONFIRM LOCATION OF EMERGENCY CALL SYSTEM WITH ARCHITECT AND CLIENT DURING CONSTRUCTION. INSTALLATION TO CONFORM TO ONTARIO BUILDING CODE.



PANEL TAG NAME: 'PP-A'

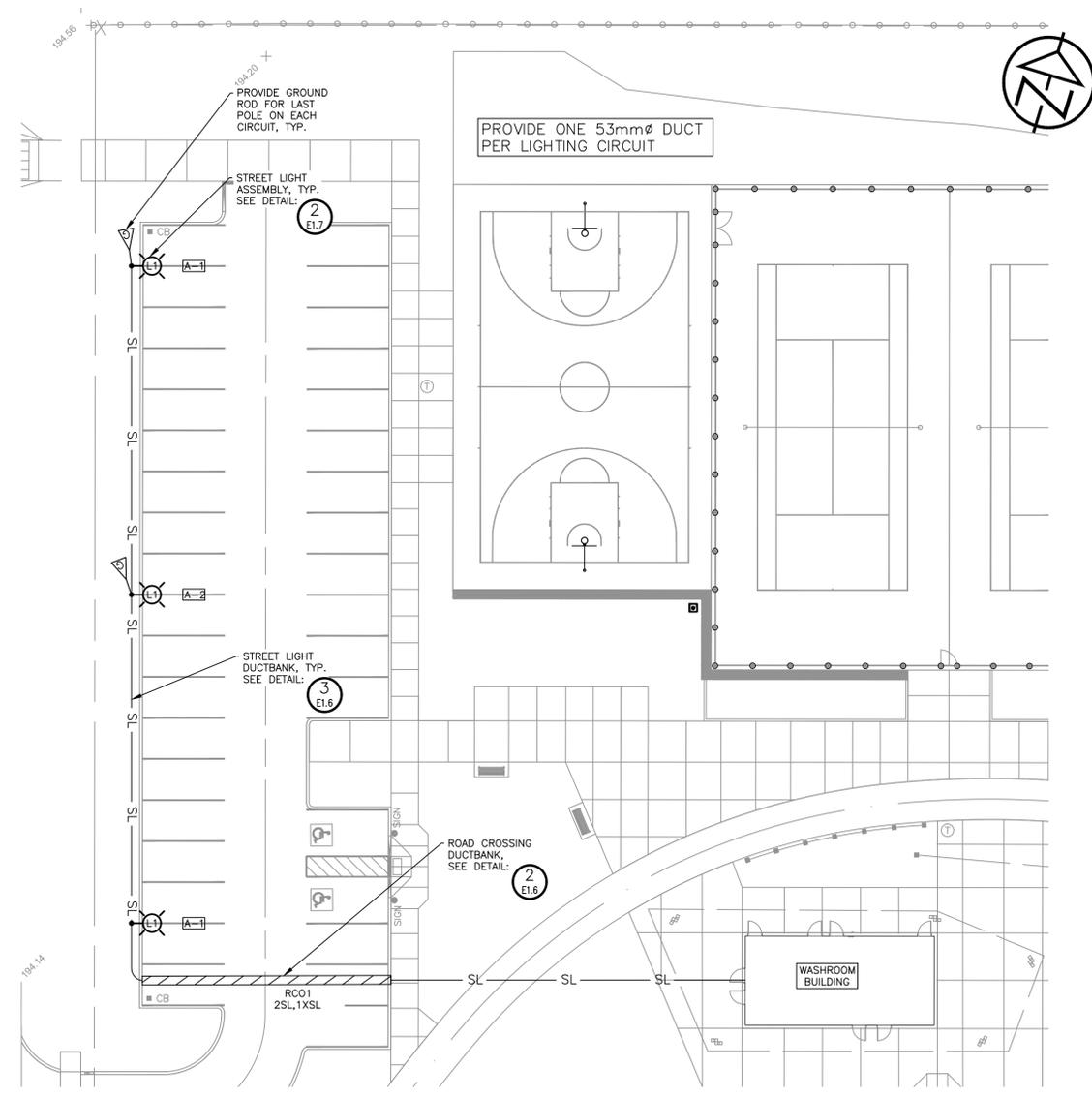
LOAD-W	CIRCUIT DESCRIPTION	120/240V, 1PH, 3W		CIRCUIT DESCRIPTION	LOAD-W
		PROT.	CIRCUITS		
	MECHANICAL LIGHT	15A	1 A	15A	BASKETBALL LIGHTS
	WASHROOM LIGHTS	15A	3 B	15A	BASKETBALL RECEPTACLE
	WASHROOM LIGHTS	15A	5 A	15A	TOWN STORAGE LIGHTS
	AUTO DOOR OPENER	15A	7 B	15A	TOWN RECEPTACLE
	WASHROOM LIGHTS	15A	9 A	10 15A	PICKLEBALL LIGHTS
	EXHAUST FAN	15A	11 B	12 15A	PICKLEBALL RECEPTACLE
	TENNIS LIGHTS	15A	13 A	14 15A	EXTERIOR RECEPTACLE
	HOT WATER TANK	25A	15 B	16 15A	EXTERIOR RECEPTACLE
	MAINTENANCE RECEPTACLE	15A	17 A	18 15A	EXTERIOR RECEPTACLE
	PARKING LOT LIGHTS	40A	19 B	20 15A	EXTERIOR RECEPTACLE
	PARKING LOT LIGHTS	40A	21 A	22 60A	LP-A
	EXTERIOR LIGHTS	15A	23 B	24 2P	
	SPARE	15A	25 A	26 60A	LP-B
	EMERGENCY CALL	15A	27 B	28 2P	
	SPARE	15A	29 A	30 60A	
	ARCHITECTURAL LIGHTS CONTROL PANEL	15A	31 B	32 2P	SPD
	W3 LIGHTS DRIVER #1	15A	33 A	34 15A	SPARE
	W3 LIGHTS DRIVER #2	15A	35 B	36 15A	SPARE
	W2 LIGHTS	30A	37 A	38 15A	SPARE
	ARCHITECTURAL LIGHTS SPARE	30A	39 B	40 60A	SPARE
	SPARE	15A	41 A	42 2P	

- NOTES**
- UNMARKED DEVICES LOCATED IN MCC
 - DIAGRAM FOR EXHAUST FAN EF-1 INTERLOCKED WITH MOTORIZED DAMPERS MD-1.
 - EXHAUST FAN TO START AFTER DAMPERS OPEN, FROM END LIMIT SWITCHES. SEE DIVISION 15.
 - PROVIDE RIGID PVC CONDUIT AND WIRING TO ALL FIELD DEVICES.

- NOTES**
- SCHEMATIC IS DIAGRAMMATIC ONLY
 - REFER TO FINAL DOOR OPERATOR SPECIFICATIONS PRIOR TO ROUGHING-IN.

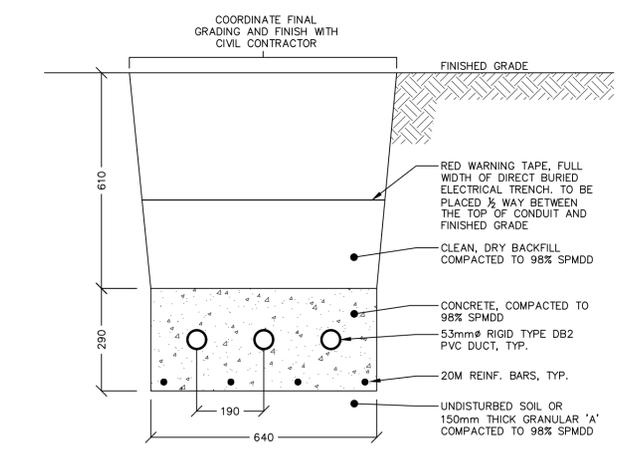
"PP-A" PANEL SCHEDULE

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			<p>No. 2. REVISION DESCRIPTION: ISSUED FOR SPA. DATE: FEB 2025.</p> <p>No. 3. REVISION DESCRIPTION: REISSUED FOR SPA. DATE: MAR 2025.</p> <p>No. 4. REVISION DESCRIPTION: REISSUED FOR SPA. DATE: APR 2025.</p> <p>No. 5. REVISION DESCRIPTION: ISSUED FOR TENDER. DATE: APR 2025.</p>				<p>ELECTRICAL BUILDING LAYOUT-POWER</p>

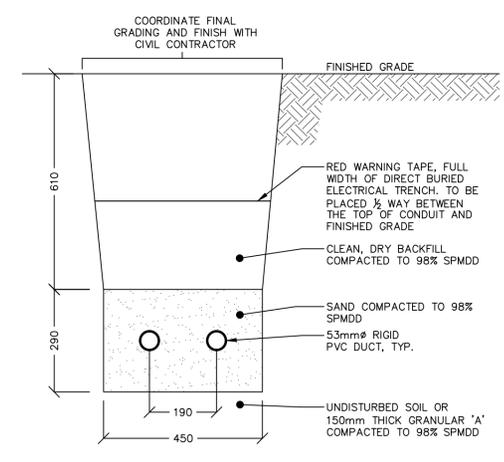
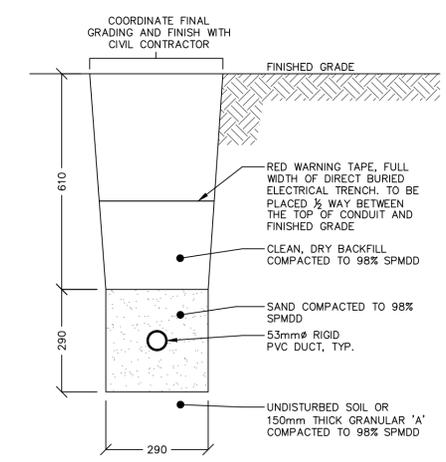


1
E1.6
PARKING LOT LIGHTING LAYOUT
SCALE - 1:250

- 1
E1.6
- DUCTBANK NOTES:
- DIMENSIONS SHOWN IN mm.
 - ALL DUCTS ARE 103mmØ TYPE PVC DB2, UNLESS OTHERWISE NOTED
 - PROVIDE 915mm "LONG SWEEP BENDS" FOR ALL BENDS: 90°, 45°, AND 22.5° BENDS
 - PROVIDE FISH ROPE IN EACH SPARE DUCT
 - INSTALL SPACERS EVERY 1524mm TO ASSEMBLE CONCRETE ENCASED DUCTBANKS, OFFSET OR STAGGER SPACERS
 - GLUE ALL PVC JOINTS
 - PROVIDE END-BELLS WHEN FINISHING DUCTS IN CHAMBER OR WALLS
 - L = LIGHTING, S = SPARE



2
E1.6
TYPICAL ROAD CROSSING



3
E1.6
TYPICAL STREET LIGHTING DUCTBANK DETAIL

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4.	REISSUED FOR SPA	APR 2025
5.	ISSUED FOR TENDER	APR 2025

ENGINEER STAMP

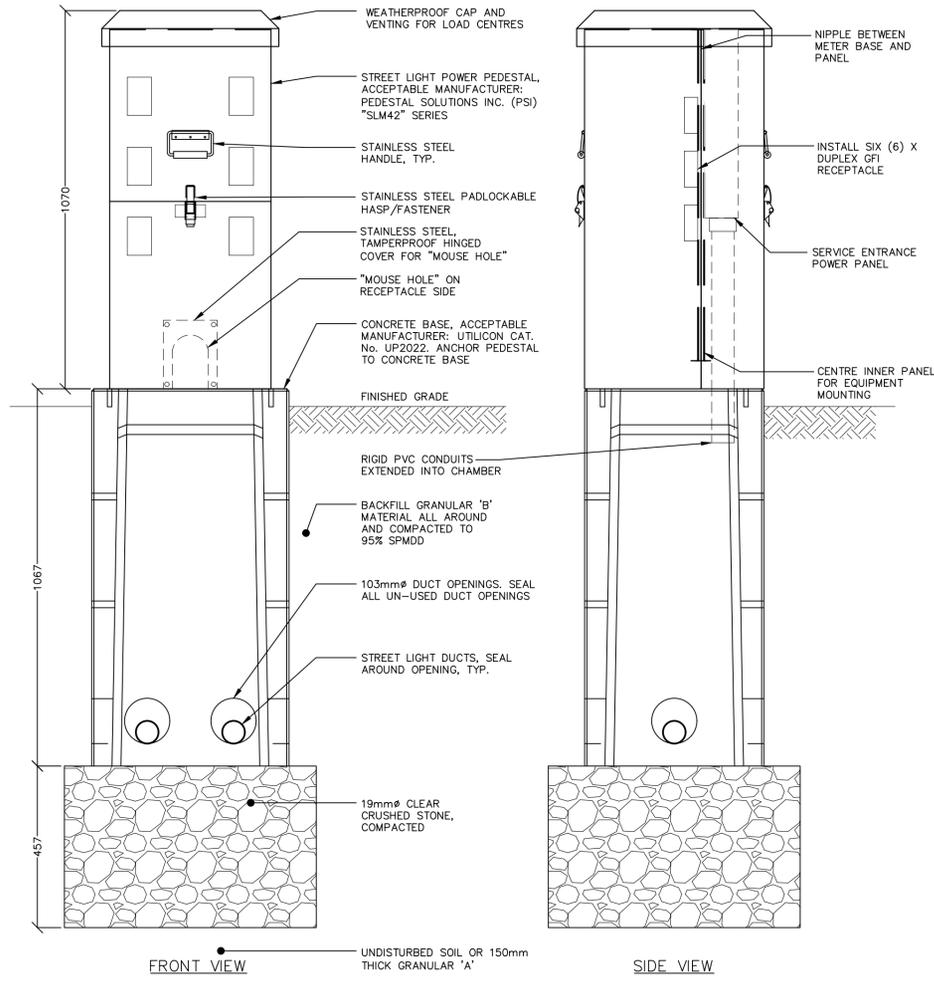
WILSON-SHEFFIELD PARK & WASHROOM BUILDING
TOWN OF COLLINGWOOD

ELECTRICAL
PARKING LOT LIGHTING
LAYOUT

TOWN CONTRACT: #FIN2025-006T

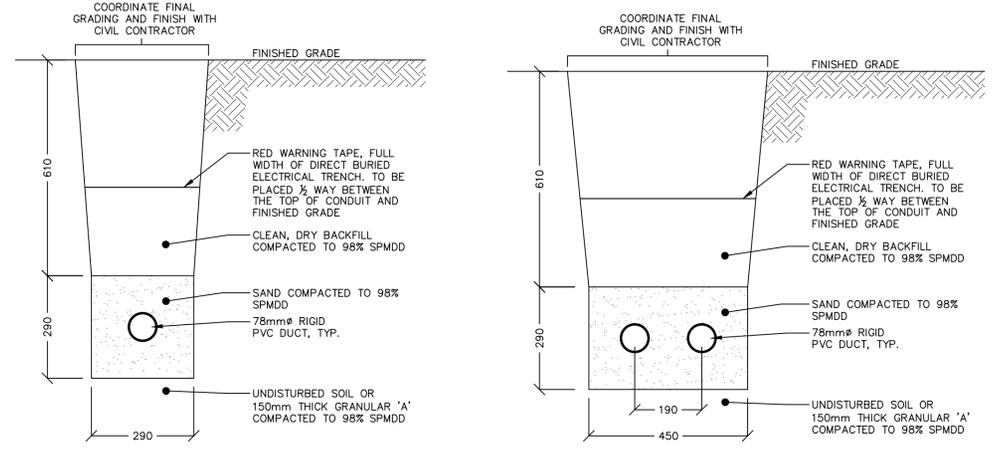
TATHAM ENGINEERING

DESIGN: AD	FILE: 123308	DWG: E1.6
DRAWN: HB	DATE: SEP 2024	
CHECK: AD	SCALE: AS SHOWN	

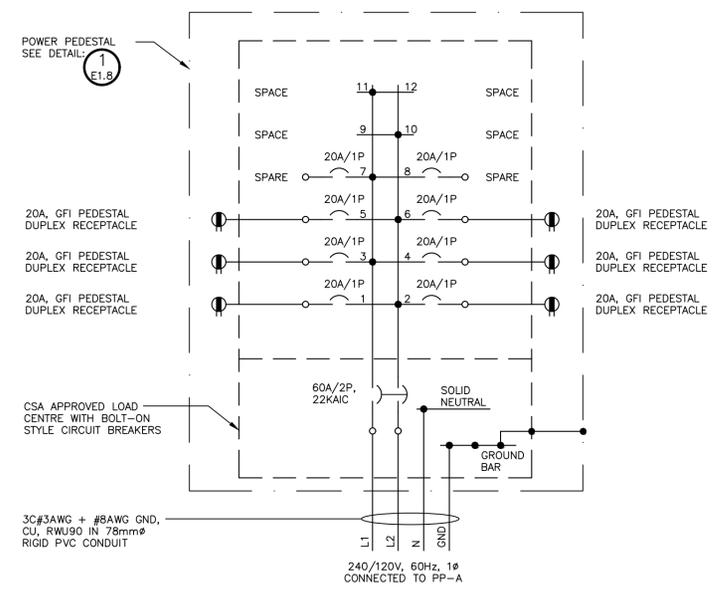


1 RECEPTACLE PEDESTAL – TYPICAL INSTALLATION DETAIL
 – CONFIRM FINISH COLOUR WITH TOWN

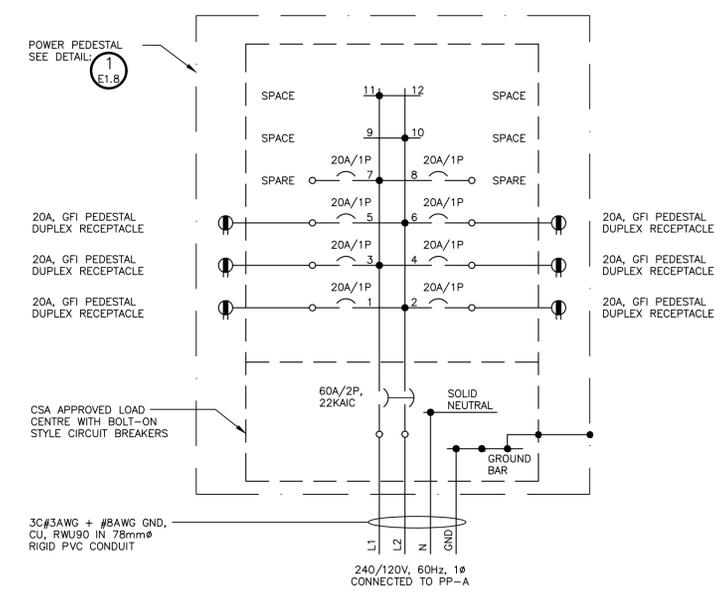
- DUCTBANK NOTES:**
- DIMENSIONS SHOWN IN mm.
 - ALL DUCTS ARE 103mmØ TYPE PVC DB2, UNLESS OTHERWISE NOTED
 - PROVIDE 915mm "LONG SWEEP BENDS" FOR ALL BENDS: 90°, 45°, AND 22.5° BENDS
 - PROVIDE FISH ROPE IN EACH SPARE DUCT
 - INSTALL SPACERS EVERY 1524mm TO ASSEMBLE CONCRETE ENCASED DUCTBANKS, OFFSET OR STAGGER SPACERS
 - GLUE ALL PVC JOINTS
 - PROVIDE END-BELLS WHEN FINISHING DUCTS IN CHAMBER OR WALLS
 - B = BELL DUCTS, R = ROGERS DUCTS
 - L = LIGHTING, S = SPARE, P = POWER, C = CONTROL
 - I = INSTRUMENTATION



4 PEDESTAL DUCTBANK
 NTS



2 "LC-A" EVENT POWER LOAD CENTER WIRING DIAGRAM
 – NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)



3 "LC-B" EVENT POWER LOAD CENTER WIRING DIAGRAM
 – NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)

TOWN CONTRACT: #FIN2025-006T

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4.	REISSUED FOR SPA	APR 2025	
5.	ISSUED FOR TENDER	APR 2025	

ENGINEER STAMP
 LICENSED PROFESSIONAL ENGINEER
 A. DIXON
 100223176
 17 APR '25
 PROVINCE OF ONTARIO

WILSON-SHEFFIELD PARK & WASHROOM BUILDING
 TOWN OF COLLINGWOOD
 ELECTRICAL EVENT PEDESTAL DETAILS

TATHAM ENGINEERING
 DESIGN: AD FILE: 123308 DWG:
 DRAWN: HB DATE: SEP 2024 **E1.8**
 CHECK: AD SCALE: AS SHOWN

<p>Electrical Specifications Page 1 of 10</p> <p>PART 1 – GENERAL</p> <p>1.1 Scope of Work</p> <ol style="list-style-type: none"> Co-ordinate with mechanical, civil and architectural and landscape disciplines for location of underground ductbanks and electrical equipment. Coordinate entry of all underground ductbanks into buildings with all disciplines prior to roughing-in. Install new electrical service. Ensure secondary ductbanks and metering requirements comply with the latest Epcor standards. Ensure all ductbanks are inspected by engineer and Epcor (as required) prior to back filling. Coordinate all inspections by engineer, Epcor, and ESA, as required by each inspection authority. All fees for Electrical Safety Authority and Epcor, including connection fees are to be included in this contract. Co-ordinate location of all lighting equipment with landscape architect prior to roughing-in. All service entrance and distribution equipment as noted on drawings is provided under this contract. Provide all lighting, life-safety, power, accessibility and emergency call equipment within the proposed building as noted on the contract drawings and in accordance with the relevant standards. Provide all required equipment, verification, testing and third-party commissioning as required by this specification. <p>1.2 Standards</p> <ol style="list-style-type: none"> Provide all products and services in accordance with the latest addition of the following codes and standards: <ol style="list-style-type: none"> Ontario Electrical Safety Code, latest edition applicable. Canadian Standards Association. Ontario Building Code, Latest Edition. Epcor Utilities installation standards. <p>1.3 Permits, Fees and Inspection</p> <ol style="list-style-type: none"> Coordinate all requirements for power service and electrical inspection with local hydro authority (Epcor). Provide all licenses, permits and certificates required by the local authorities at no additional expense. Arrange and pay for inspection(s) of the Works by the authorities having jurisdiction. Upon completion of the Work, provide the Consultant with final, unconditional certificates of approval by the inspection authorities. <p>1.4 Examination of the Site and Contract Documents</p> <ol style="list-style-type: none"> Examine Drawings and Specifications of the complete Project and become familiar with all local site conditions. Submission of Tender confirms the Contractor accepts the Contract and site conditions without qualifications. Tender pricing shall be based on the specified equipment only. Alternative products can be suggested via shop drawings, but their approval is not guaranteed. Failure to determine the existing conditions or the nature of the construction shall not be a basis for granting compensation. 	<p>Electrical Specifications Page 2 of 10</p> <p>1.5 Construction Drawings</p> <ol style="list-style-type: none"> The electrical drawings are diagrammatic, intended to convey the scope of work and indicate general arrangements of equipment. Do not scale drawings unless a scale is identified. Have the location of panels, conduits, luminaires, outlets and other equipment shown in the drawings reviewed by the Consultant before proceeding with the installation. Inform the Consultant of significant changes in location of equipment to meet field conditions and receive their authorization before proceeding. Obtain from the site Consultant the location of equipment not definitely located in the drawings. Locations of panels, outlets, luminaires and other equipment indicated in the drawings are approximate and may be subject to revision found necessary or desirable by the Consultant or the client at the time the work is installed. The Consultant may at their discretion request the relocation of electrical equipment within three metres of that shown prior to roughing in. This relocation shall be at no additional cost. Drawings do not generally indicate the number of wires within conduits for outlets and fixtures. Provide the correct wire size and quantity as required by the indicated circuitry and control diagrams. <p>1.6 Shop Drawings</p> <ol style="list-style-type: none"> Submit shop drawings in accordance with general Contract Conditions and include arrangement drawings, bill of materials, diagrams, nameplate drawings and product data as applicable for the following equipment: <ol style="list-style-type: none"> Service entrance fused disconnect. Metering cabinet Panelboard and breakers Luminaires (Bollard) Luminaires (wall and ceiling mount) Luminaires (Pole mount) Light poles & bases Automatic Door Operator Emergency Call system Receptacle Pedestals Shop drawings shall provide all necessary details and information: <ol style="list-style-type: none"> to allow the Consultant to assess that the equipment is in accordance with the Contract requirements; to be suitable for binding into the operations and maintenance manuals; and to be stamped and signed by the Contractor, thereby indicating that they have checked that the equipment offered conforms to the requirements of the Contract Documents. Product data sheets shall include the name of the manufacturer and be clearly marked to show which items, features and options are offered. Shop drawings that are not presented as required will be returned for revision and resubmission. Shop drawings will be returned marked 'Revise and Re-submit for review', 'Reviewed as Modified' or 'Reviewed'. Do not procure or start manufacture before receipt of submitted drawings stamped as 'Reviewed' or 'Reviewed as Modified' by the Consultant. The review of shop drawings by the Consultant does not relieve the Contractor of their responsibilities for compliance with the Contract Documents. Prior to ordering of luminaires, in-slab outlet box, and conference table receptacles contractor must receive approval from the client and the architect. Approval of alternative products to those specified is not guaranteed. <p>1.7 Construction Record Drawings</p> <ol style="list-style-type: none"> Keep one set of all applicable contract (including updates) and shop drawings at the site. 	<p>Electrical Specifications Page 3 of 10</p> <ol style="list-style-type: none"> Ensure that the latest issue drawings are marked up to reflect the work as installed and have these available for the Consultant's review at site. Upon completion of the work, transfer all revisions to a clean set of prints and update electronic AutoCAD drawings submit them to the Consultant as part of the final job documentation. <p>1.8 Operating and Maintenance Manual</p> <ol style="list-style-type: none"> Produce operating and maintenance manuals for all Division 16 work and submit two complete preliminary copies for the Consultant's review. Submit four final approved copies of the operating and maintenance manuals at project completion. Coordinate installation of materials and equipment with work of other trades. Report any conflicts to the Consultant. Coordinate with local utilities (hydro and telephone) and obtain all necessary information to ensure proper functioning of all the installed equipment. Notify the Consultant in writing of any required changes. Relocate equipment and/or material installed, but not coordinated with the work of other trades as directed by the Consultant, at no extra cost. <p>1.9 Finishes</p> <ol style="list-style-type: none"> Shop-finish metal enclosures by application of rust resistant primer inside and out, and at least two coats of finishing enamel. Clean and touch up any surfaces on shop-painted surfaces marred during shipment or installation with paint selected to match the original as indicated on drawings. Wire brush and prime using a zinc-rich coating on any non-coated steel hangers, racks and fasteners to prevent rusting. <p>1.10 Equipment Identification</p> <ol style="list-style-type: none"> Provide nameplates for all electrical equipment listing equipment identifier and function. Nameplates: <ol style="list-style-type: none"> Laminoid 3 mm thick plastic engraving sheet, black face, white ore, mechanically attached with stainless steel screws or rivets. <p>NAMEPLATES:</p> <p>Size 1: 1 line, 3 mm high letters Size 2: 1 line, 6 mm high letters Size 3: 2 lines, 6 mm high letters Size 4: 1 line, 12 mm high letters Size 5: 2 lines, 12 mm high letters Size 6: 1 line, 25 mm high letters Size 7: 2 lines, 25 mm high letters</p> <ol style="list-style-type: none"> Word on nameplates to be approved by Engineer prior to manufacture. Allow for average of twenty-five (25) letters per nameplate. Identification to be English. Disconnects, starters and junction boxes: Size 4, indicate equipment description and voltage. Terminal cabinets, pull and control boxes: Size 2, indicate panelboard system and voltage. Transformers: Size 5 indicate tag number, kVA capacity, phases, system primary and secondary voltages. Provide a typewritten circuit directory with clear plastic cover for each panel board in a suitable holder on the inside of each panel door. Indicate breaker circuit number, rating, load description, and associated load data. On outside of panel board door, indicate tag number, capacity, phases and voltages. 	<p>Electrical Specifications Page 4 of 10</p> <ol style="list-style-type: none"> For all buried incoming ducts provide a "buried cable" marker on the building where the buried service enters. <p>PART 2 – PRODUCTS</p> <p>2.1 Basic Materials</p> <ol style="list-style-type: none"> Grounding & Bonding <ol style="list-style-type: none"> Ground and bond metallic water pipes and electrical equipment in accordance with electrical code requirements. Ground secondary surge protection to 3mx20mm galvanized steel ground rod buried at position of protective device without damage to other services. Install an AC ground grid system as per section 10 of the Electrical Code. Ducts, Conduits and Fittings <ol style="list-style-type: none"> Rigid PVC conduit, CSA approved, sizes as indicated on drawings for direct buried duct banks and feeders. Use type DB2 conduit for secondary ductbank per Epcor standards. All exterior exposed conduits to be rigid PVC, sunlight resistant. Wire and Cable <ol style="list-style-type: none"> Service entrance cables: refer to contract drawings Power and lighting circuits, Class B stranded copper conductors, 600V rated, Teck90 multi-conductor cable or RW90 insulated conductors for installation in conduit, as indicated on Contract Drawings. Size power wiring as per electrical code for all loads, with minimum #12AWG wire size. Control circuits (120V): Class B standard copper, minimum size #14AWG, 600V rated, Teck90 multi-conductor cable or RW90 insulated conductors for installations in conduit, as indicated. Include an insulated green copper conductor for ground wire in all conduits and cables. Contractor to verify voltage drop per rating for each load from panel board. <p>2.2 General AC Switches</p> <ol style="list-style-type: none"> Single pole, double pole, 3 way, 4 way switches, as indicated, 20 Amp, 120 VAC, CSA approved. Manually-operated, industrial grade AC switches. Switches of one manufacturer throughout project. Acceptable manufacturers: <ol style="list-style-type: none"> Arrow Hart, Pass & Seymour, Hubbell and Leviton. <p>2.3 General AC Receptacles</p> <ol style="list-style-type: none"> Industrial grade, 15A, 125V AC rated with CSA type 5-15R configuration or 20A-125V AC rated T-slot with CSA type 5-20R configuration (as indicated on drawings), U ground and CSA approved. Single or duplex receptacle as indicated on drawings. Receptacles of one manufacturer throughout project. Acceptable manufacturers: <ol style="list-style-type: none"> Arrow Hart, Pass & Seymour, Hubbell and Leviton. <p>2.4 Ground Fault interrupting Receptacles</p> <ol style="list-style-type: none"> Receptacle: Duplex CSA 5-15R configuration, 125V, 15A or 20A, Class A type interrupter. Integral solid state ground sensing device. Integral "test" and "reset" pushbuttons. Acceptable manufacturers: Leviton, Hubbell and Bryant. <p>2.5 Cover Plates</p> <ol style="list-style-type: none"> Cover plates from one manufacturer throughout project. Stainless steel utility box cover for wiring devices installed in surface mounted utility boxes. 	<p>Electrical Specifications Page 5 of 10</p> <ol style="list-style-type: none"> Stainless steel cover plates (2 mm thick) for wiring devices mounted in surface mounted FS or FD type conduit boxes. Outdoor Receptacle Covers: Weatherproof in-use (WP), UV rated, extra duty, continuous plastic cover complete with gaskets for duplex receptacles as indicated. Must be CSA and approved by Electrical Inspector. Outdoor Switch Covers: Weatherproof (WP), UV rated, extra duty, continuous plastic cover plate complete with gaskets for single switch. <p>2.6 Rigid PVC</p> <ol style="list-style-type: none"> Direct Buried ducts: Rigid PVC conduit, schedule 40 pipe dimensions, complies with CSA C22.2 No. 211.2-06 Type DB2 conduits as required by Epcor. Concrete encased ducts: PVC type DB2 conduit, complies with CSA C22.2 No. 211.1-06. <p>2.7 PVC Duct Fittings</p> <ol style="list-style-type: none"> PVC, opaque solvent welded type couplings, bell end fittings, plugs, caps, adaptors, split ducts as required to make complete installation. Expansion joints and wobble joints. PVC angle couplings: 90°, 45° and 22.5° bends with 915mm diameter radius bends (long sweeps). Solvent weld compound for all PVC duct joints. <p>2.8 Markers</p> <ol style="list-style-type: none"> Concrete type cable markers: 600 x 600 x 100 mm, with the words "cable," "joint" or "conduit" impressed in top surface, with arrows to indicate change in direction of duct runs. <p>2.9 Duct Spacers</p> <ol style="list-style-type: none"> Rigid interlocking plastic material, for the conduit diameters and spacing required on drawings. <p>2.10 Cable Pulling Equipment</p> <ol style="list-style-type: none"> 6 mm stranded nylon pull rope with tensile strength of 5 kN installed in all ductbanks <p>2.11 Meter Bases (Sockets)</p> <ol style="list-style-type: none"> Heavy Duty rated, rated 600VAC Max., CSA Approved, suitable for rear or underground services. Tunnel type terminals for Cu/AL line, load and neutral conductors. Number of Jaws: 5. Coordinate meter base selection with Power Supply Authority. Ampere rating: as indicated on drawings. Enclosure rating: suitable for outdoors, EEMAC-3R. Acceptable manufacturers: Microelectric, Cutler-Hammer, GE. <p>2.12 Pedestals Enclosures</p> <ol style="list-style-type: none"> Heavy gauge, galvanized steel construction with concealed ventilation. Suitable for mounting to concrete base, free standing, enclosed with front and rear access panels. Outdoor, weatherproof, tamperproof, NEMA/EEMAC 3R enclosure, with electrostatic powder coated paint finish. Colour: standard "Equipment" green. General arrangement of pedestals as indicated on electrical contract drawings. Accommodate receptacles and load centres as indicated.
<p>Electrical Specifications Page 6 of 10</p> <ol style="list-style-type: none"> Stainless steel lockable fasteners and handles. Provide all necessary warning signs as required by local inspection authorities. <p>2.13 Power Panelboards</p> <ol style="list-style-type: none"> Panelboards: product of one manufacturer. Designed for service entrance (as indicated) c/w main breaker rated 22kAIC. Main and feeder breakers must be series rated for 22kAIC. Panelboard: bus and feeder breakers rated for 10,000 A (symmetrical) interrupting capacity or as indicated. Sequence phase bussing with odd numbered breakers on left and even on right, with each breaker identified by permanent number identification as to circuit number and phase. Panelboards: voltage mains, number of circuits, and number and size of branch circuit breakers as indicated. Two keys for each panelboard (and key alike). Copper busses with neutral of same ampere rating as mains. Copper ground bar. Mains: suitable for bolt on breakers. Trim and door finish in accordance with Section 16010 – Electrical General Requirements. Base panelboards on CSA C22.2 No. 29 – specification. Panelboard Breakers: <ol style="list-style-type: none"> Breakers with thermal and magnetic tripping in panelboards except as indicated otherwise. Main breaker: separately mounted on top or bottom of panel to suit service and cable entry. When mounted vertically, down position should open breaker. Lock on devices as indicated. Bolt-on moulded case circuit breaker: quick-make, quick-break type, for manual and automatic operation with temperature compensation for 40°C ambient. Common trip breakers: with single handle for multi-pole applications. Ground fault protection circuit breakers: Class A type, 120V AC, complete with automatic trip, zero sequence transformer and facilities for testing and reset pushbuttons. <p>2.14 Lighting</p> <ol style="list-style-type: none"> Refer to Contract Drawings for all lighting products (i.e., luminaires, exit signs, emergency battery units, etc.). Provide all necessary mounting brackets, hangers, etc., as required for installation. Photocells <ol style="list-style-type: none"> Photo-electric cell, cadmium sulphide, epoxy coated. Construction: weather light die cast housing, completely self-contained, not affected by moisture, vibration or temperature changes. Includes fixed base and bracket for conduit mounting. Controls: on-off adjustment, with manual light level selector for 1-5fc turn-On and 3-15fc turn-Off adjustments. Includes adjustable delay for false switching. Voltage: 120/208-277VAC Tungsten rating: 2000W/3470-4620W Ballast rating: 18VA/2080-2770VA LED rating: 600w/1040-1385VA Time Delay: on and off Operating temperature range: -40°C to +70°C Fail Mode: on Acceptable manufacturer: Per Town Specifications LED Luminaire Assemblies <ol style="list-style-type: none"> Driver 	<p>Electrical Specifications Page 7 of 10</p> <ol style="list-style-type: none"> The LED driver shall be securely mounted inside the fitter, for optimized performance and longevity. The LED driver shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and future installation. The driver shall be UL Listed or Recognized, have a power factor not less than 90%, and a THD no greater than 20% at full load. The driver shall have overload as well as short circuit protection. The driver current shall be constant current design. The driver shall be a DC voltage output. The driver shall have a minimum efficiency of 90%. <p>2 Light Sources</p> <ol style="list-style-type: none"> The luminaire shall use high output, high brightness LEDs. The LEDs shall be attached to the printed circuit board with not less than 90% pure silver to insure optimal electrical and thermal conductivity. The LEDs and printed circuit boards shall be protected from moisture and corrosion by a conformal coating of 1 to 3 mm. The LEDs and printed circuit board construction shall be environmentally friendly and 100% recyclable. They shall not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. The LED life rating data shall be determined in accordance with IESNA LM-80-08. Testing must be done with a complete assembled luminaire. <p>3 Optics</p> <ol style="list-style-type: none"> The luminaire shall be provided with individual acrylic, refractor type optics applied to each LED. The luminaire shall provide light distribution per IESNA classifications. Testing shall be done in accordance with IESNA LM-79-06. <p>4 Performance</p> <ol style="list-style-type: none"> The LED arrays are built in series-parallel circuits which maintain overall light output in the event of single LED failures. The LED and LED driver shall operate over -40°C to +50°C ambient air temperature range. The indoor high performance white LEDs will have a minimum 50,000 hour luv value rated at 25°C. The high brightness, high output LEDs shall be a maximum colour temperature of 3500K (indoor) and 4000K (outdoor) with a minimum 70 CRI (v. 5%). <p>5 Warranty</p> <ol style="list-style-type: none"> The outdoor luminaires and drivers shall be free from all defects in materials and workmanship for a minimum period of ten (10) years from the date of manufacture. The indoor luminaires and drivers shall be free from all defects in materials and workmanship for a minimum period of five (5) years from date of manufacture. Manufacturer shall warrant the LED boards/system, during the stated warranty period, against failure defined as more than three (3) simultaneous non-operating LEDs. Warranty shall include all labour costs associated with replacement of the luminaires. <p>6 Shop Drawings</p> <ol style="list-style-type: none"> All shop drawings must be submitted with the following tests: <ol style="list-style-type: none"> IESNA LM-79-06 IESNA LM-80-08, test must be done for the complete assembled luminaire. <p>7 Alternates</p> <ol style="list-style-type: none"> LED luminaires not meeting the minimum requirements of this specification will not be considered. <p>2.15 Outdoor Lighting Pole</p> <ol style="list-style-type: none"> Refer to contract drawings for details. Acceptable Manufacturer: Spina's Steel Works. <p>PART 3 – EXECUTION</p> <p>3.1 Coordination of Protective Devices (Coordination Study)</p> <ol style="list-style-type: none"> It is understood that the gather of information to complete the Protection Device Evaluation is the responsibility of the contractor. Ensure all protective devices ratings and settings are properly coordinated to suit the actual equipment supplied and/or installed or to which it is being connected. Record and submit to Engineer all protective devices settings. 	<p>Electrical Specifications Page 8 of 10</p> <ol style="list-style-type: none"> Provide a system co-ordination time-current curves on Log-Log paper (Keuffel & Esser Co., #48-5258) for all protective devices. Include but not be limited to the following: <ol style="list-style-type: none"> All protective devices on 600V and 240/120V systems. Supply authority's power cables and fuse curves. Damage curves for main power supply transformer(s): 3-phase, phase-ground, phase-phase and inrush current point. Molded case circuit breaker trips – thermal and instantaneous. Starting current of largest motor on the system including the offset of the running load. Damage curves for high and low voltage power cables. Three-phase RMS bolted fault values, phase-to-phase and phase-to-ground. Engine-Generator Set 1-phase RMS bolted fault values, phase-to-phase and phase-to-ground. Submit all data for review sufficiently in advance of equipment ordering. <p>3.2 Power Panelboards</p> <ol style="list-style-type: none"> Locate panelboards as indicated and mount securely, plumb, true and square, to adjoining surfaces. Install surface mounted panelboards on melamine backboards. Where practical, group panelboards on a common backboard. Mount panelboards to height required by code or as indicated. Connect loads to circuits. Perform a "load neutral" check after all loads are connected. Connect neutral conductors to common neutral bus with respective neutral identified. Breaker sizes listed in the panelboard schedule(s) are provided as a general guide. Prior to installation, contractor to confirm all breaker sizes with final equipment loads. Contractor to size all panelboard feeder wiring and conduit based on Ontario Electrical Safety Code - latest edition. Include insulated ground conductor in all conduit raceways. Provide a Nameplate: Size 4. <p>3.3 Grounding</p> <ol style="list-style-type: none"> Provide a complete grounding system in accordance with the code and any service having jurisdiction. Ground all electrical equipment, including distribution panels, lighting fixtures, motors, conduits, receptacles, wiring and control devices. Ensure conduits make a good mechanical connection at all points to maintain a continuous metallic ground throughout the complete system. Ground all plumbing and mechanical services inside buildings to ensure that no item of equipment is left electrically isolated. Provide ground bushings to all stubbed-up metallic conduits under panels and interconnect to ground bus with grounding conductor. Provide grounding electrodes in accordance with the requirements of the code and any service authority having jurisdiction. Provide separate insulated ground wire in all metal or plastic conduits buried in earth or installed in or below concrete slabs. Provide separate ground conductor through all flexible conduit connections. <p>3.4 Direct Buried Duct Banks</p> <ol style="list-style-type: none"> Rigid PVC ducts for direct burial shall be of the type approved for direct burial. Ensure that the trench bottom is of undisturbed soil or soil compacted to a density of 95% of the maximum dry density, free of stones and uniformly graded to give continuous support to the rigid ducts throughout their entire length. Slope ducts with 1 to 400 minimum slope. Solvent weld (glue) all PVC duct joints. 	<p>Electrical Specifications Page 9 of 10</p> <ol style="list-style-type: none"> Ensure all couplings used to join PVC conduits are given a tight fit. Make connections with an approved PVC solvent supplied by the conduit manufacturer. Provide protection covers or planks, where required or indicated. Install pull cord in each duct with 3 m spare cord at each end and cap until ready for use. Pull through each duct wooden mandrel not less than 500 mm long and of diameter 8 mm less than internal diameter of duct, followed by stiff bristle brush to remove sand, earth and other foreign matter. Pull stiff bristle brush through each duct immediately before pulling-in cables. Install markers as required or as indicated. <p>3.5 Markers</p> <ol style="list-style-type: none"> Mark location of duct runs under hard surfaced areas not terminating in manhole with railway spike driver flush in edge of pavement, directly over run. Place concrete duct marker at ends of such duct runs. Construct markers and install flush with grade. Mark ducts every 150 m along straight runs and changes in direction. Where markers are removed to permit installation of additional duct, reinstall existing markers. Lay concrete markers flat and centered over duct with top 25 mm above earth surface. Provide drawings showing locations of markers. <p>3.6 Cable Installation in Ducts</p> <ol style="list-style-type: none"> Install cables as indicated in ducts. Do not pull spliced cables inside ducts. Install multiple cables in duct simultaneously. Use CSA approved lubricants of type compatible with cable jacket to reduce pulling tension. To facilitate matching of colour coded multiconductor control cables reel off in same direction during installation. Before pulling cable into ducts and until cables properly terminated, seal ends of lead covered cables with wiping solder; seal ends of non leaded cables with moisture seal tape. <p>3.7 Lighting Luminaires</p> <ol style="list-style-type: none"> Install lighting luminaires as shown on the drawings and in accordance with the manufacturer's installation recommendations. Replace any new luminaires showing marks or scratches due to handling or tool marks as no cost to the Owner. Install all luminaires accurately in line and level. Align luminaires shown in continuous rows and in straight lines. Provide and install any additional support brackets, clamps, channels, hangers, etc., necessary to install the luminaires where shown. Do not support luminaires from ducts, piping or equipment. Ensure that all installed luminaires are freely accessible. Check area for interference from piping, ductwork and equipment, and obtain written authorization from the Engineer before proceeding with fixture installation. Cooperate with the ceiling materials contractor. Ensure installation of a luminaire are in correct location in relation to ceiling, and luminaires are suitable for the ceiling installed. Ensure no obstructions exist over ceiling, which will interfere with the installation of the luminaires. Provide fire rated dry-wall enclosure for all recessed luminaires mounted in fire rated ceilings. Coordinate work with all other divisions. If interferences are discovered advise the engineer immediately and do not proceed until adjustments are approved. All interior fluorescent luminaires to be installed directly to ceiling structure or as noted on drawings 	<p>Electrical Specifications Page 10 of 10</p> <ol style="list-style-type: none"> Wiring <ol style="list-style-type: none"> Install wiring for all lighting luminaires in accordance with Electrical Code. Field Quality Control <ol style="list-style-type: none"> After installation perform potential and continuity tests and ensure that all ground connections are properly made and made good any equipment or material which fails the tests before energizing the system. <p>3.8 Testing and Commissioning</p> <ol style="list-style-type: none"> Provide testing and commissioning of all electrical work. Notify the Consultant at least three working days before the testing and commissioning is scheduled to start. The Consultant may request repetition of any test for which due notification was not received. Provide insulation test using 500V megger on the utility supply cables. <p style="text-align: center;">END OF SECTION</p>

TOWN CONTRACT: #FIN2025-006T

<p>DISCLAIMER AND COPYRIGHT</p> <p>CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.</p> <p>TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.</p>	<p>BENCHMARKS</p>	<p>NOTES</p>	<table border="1"> <thead> <tr> <th>No.</th> <th>REVISION DESCRIPTION</th> <th>DATE</th> <th>ENGINEER STAMP</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>ISSUED FOR COORDINATION</td> <td>OCT 2024</td> <td rowspan="5">  </td> </tr> <tr> <td>2.</td> <td>ISSUED FOR SPA</td> <td>FEB 2025</td> </tr> <tr> <td>3.</td> <td>REISSUED FOR SPA</td> <td>MAR 2025</td> </tr> <tr> <td>4.</td> <td>REISSUED FOR SPA</td> <td>APR 2025</td> </tr> <tr> <td>5.</td> <td>ISSUED FOR TENDER</td> <td>APR 2025</td> </tr> </tbody> </table>	No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP	1.	ISSUED FOR COORDINATION	OCT 2024		2.	ISSUED FOR SPA	FEB 2025	3.	REISSUED FOR SPA	MAR 2025	4.	REISSUED FOR SPA	APR 2025	5.	ISSUED FOR TENDER	APR 2025	<p style="text-align: center;">WILSON-SHEFFIELD PARK & WASHROOM BUILDING TOWN OF COLLINGWOOD</p> <p style="text-align: center;">ELECTRICAL SPECIFICATIONS</p>	<p style="text-align: center;">TATHAM ENGINEERING</p> <table border="1"> <tr> <td>DESIGN: AD</td> <td>FILE: 123308</td> <td>DWG:</td> </tr> <tr> <td>DRAWN: HB</td> <td>DATE: SEP 2024</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">E1.9</td> </tr> <tr> <td>CHECK: AD</td> <td>SCALE: AS SHOWN</td> </tr> </table>	DESIGN: AD	FILE: 123308	DWG:	DRAWN: HB	DATE: SEP 2024	E1.9	CHECK: AD	SCALE: AS SHOWN
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MECHANICAL DRAWING LIST	
DRAWING #	DRAWING TITLE
M1.0	MECHANICAL SCHEDULES, LEGEND AND DRAWING LIST
M1.1	MECHANICAL SPECIFICATIONS
M1.2	MECHANICAL DETAILS
M1.3	HVAC LAYOUT
M1.4	PLUMBING LAYOUT

WATER HEATER SCHEDULE									
TAG	MAKE	MODEL	STORAGE (USG)	MAX. WATTS	TYPE	V/φ/Hz	AMPS	REMARKS	
WH-1	A.O. SMITH	DEL-205-2.5	20	2500	ELECTRIC	120/1/60	20	C/W PRESSURE RELIEF VALVE	

HVAC GRILLES SCHEDULE					
TAG	SERVICE	DESCRIPTION	MAKE	MODEL	REMARKS
EG1	EXHAUST AIR	EGG CRATE GRILLE	EH PRICE	80	FACE SIZE: 12"x12", ALUMINUM. CONTRACTOR TO SELECT BORDER STYLE, CONTRACTOR TO FABRICATE PLENUM BOX WITH CIRCULAR DUCT CONNECTION. CONNECTION SIZE: AS INDICATED ON DRAWING, CONFIRM COLOUR WITH OWNER/ARCHITECT
EG2	EXHAUST AIR	EGG CRATE GRILLE	EH PRICE	80	FACE SIZE: 8"x8", ALUMINUM. CONTRACTOR TO SELECT BORDER STYLE, CONTRACTOR TO FABRICATE PLENUM BOX WITH CIRCULAR DUCT CONNECTION. CONNECTION SIZE: AS INDICATED ON DRAWING, CONFIRM COLOUR WITH OWNER/ARCHITECT
SG1	SUPPLY AIR	STEEL LOUVRE GRILLE	EH PRICE	500	FACE SIZE: 36"x24", ALUMINUM. CONTRACTOR TO SELECT BORDER STYLE, CONFIRM COLOUR WITH OWNER/ARCHITECT

MECHANICAL SYMBOLS AND ABBREVIATIONS		
PIPING	ABBREVIATIONS	
<p>--- DOMESTIC COLD WATER</p> <p>--- DOMESTIC HOT WATER</p> <p>--- DOMESTIC HOT WATER RE-CIRCULATION</p> <p>--- SANITARY WASTE BELOW</p> <p>--- SANITARY WASTE ABOVE GRADE</p>	<p>AFF ABOVE FINISHED FLOOR</p> <p>AHU AIR HANDLING UNIT</p> <p>ALT ALTERNATE</p> <p>AP ACCESS PANEL</p> <p>AS AIR SEPARATOR</p> <p>BBH ELECTRIC BASE BOARD HEATER</p> <p>BTU BRITISH THERMAL UNIT</p> <p>BV BALANCE VALVE</p> <p>CA COMBUSTION AIR</p> <p>CB CATCH BASIN</p> <p>CO CLEANOUT</p> <p>COND CONDENSATE</p> <p>CONV HYDRONIC CONNECTOR</p> <p>CS COUNTER SINK</p> <p>CU CONDENSING UNIT</p> <p>C/W COMPLETE WITH</p> <p>DCW DOMESTIC COLD WATER</p> <p>DHW DOMESTIC HOT WATER</p> <p>DHWR DOMESTIC HOT WATER RE-CIRCULATION</p> <p>DX DIRECT EXPANSION COOLING COIL</p> <p>EA EXHAUST AIR</p> <p>EG EXHAUST GRILLE</p> <p>EF EXHAUST FAN</p> <p>ERV ENERGY RECOVERY VENTILATOR</p> <p>ESP EXTERNAL STATIC PRESSURE EXPANSION TANK</p> <p>EX EXPANSION TANK</p> <p>FC FAN COIL</p> <p>FD FLOOR DRAIN OR FIRE DAMPER</p> <p>FFH FORCED FLOW HEATER</p> <p>FTR HYDRONIC FINNED TUBE RADIATION</p> <p>GC GENERAL CONTRACTOR</p> <p>HOSE BIBB</p> <p>HX HEAT EXCHANGER</p>	<p>HWT HOT WATER TANK</p> <p>HWH HOT WATER HEATER</p> <p>HRV HEAT RECOVERY VENTILATOR</p> <p>LV LAVATORY OR LOUVRE</p> <p>MBH 1000 BTU/HOUR</p> <p>MD MOTORIZED DAMPER</p> <p>MPR MULTI PUMP RELAY</p> <p>MS MOP SINK</p> <p>OA OUTSIDE AIR</p> <p>OED OPEN ENDED DUCT</p> <p>PRV PRESSURE REDUCING VALVE</p> <p>RA RETURN AIR</p> <p>RG RETURN GRILLE</p> <p>RPZ REDUCED PRESSURE BACKFLOW PREVENTER</p> <p>RIV ROOF INTAKE VENT</p> <p>RRV ROOF RELIEF VENT</p> <p>SA SUPPLY AIR</p> <p>SAN SANITARY</p> <p>SG SUPPLY GRILLE</p> <p>SR SUPPLY REGISTER</p> <p>TP TRAP PRIMER LINE</p> <p>TYP TYPICAL</p> <p>UH UNIT HEATER - HYDRONIC</p> <p>UR URINAL</p> <p>VS VENT STACK</p> <p>VTR VENT THRU ROOF</p> <p>WC WATER CLOSET</p> <p>WH WALL HYDRANT</p> <p>WS WASTE STACK</p> <p>ZCM ZONE CONTROL MODULE</p>
<p>PIPE FITTINGS</p> <p>○ ELBOW UP</p> <p>○ ELBOW DOWN</p> <p>○ TEE UP</p> <p>○ TEE DOWN</p> <p>○ ELBOW</p> <p>○ TEE</p> <p> c.o. o.c.o. CLEANOUT ABOVE GRADE/ BELOW GRADE</p> <p>bck ABOVE GRADE/ BELOW GRADE</p> <p>FLOOR DRAIN</p> <p>○ FUNNEL FLOOR DRAIN</p> <p>○ WATER METER</p>	<p>VALVES</p> <p>--- SHUT-OFF VALVE</p> <p>--- VERTICAL SHUT-OFF/NEEDLE VALVE</p> <p>--- BALANCING VALVE</p> <p>--- CHECK VALVE</p> <p>--- PRESSURE REDUCING VALVE</p> <p>--- MAKEUP WATER VALVE</p> <p>--- FLOW CONTROL VALVE</p> <p>--- PRESSURE RELIEF VALVE</p> <p>--- AUTOMATIC AIR VENT</p> <p>--- CONTROL VALVE (TCV)</p> <p>--- 3-WAY CONTROL VALVE</p> <p>--- THROTTLING VALVE</p> <p>--- ZONE VALVE</p> <p>--- BACKFLOW PREVENTER</p>	<p>TEMPERATURE CONTROL/MONITORING</p> <p>Ⓢ THERMOSTAT</p> <p>DRAWING NOTATIONS</p> <p>DETAIL</p> <p>M4 SHEET NUMBER OF DETAIL LOCATION</p> <p>DEMOLITION</p>
<p>DUCT SYMBOLS</p> <p>--- BALANCING DAMPER (BD)</p> <p>--- BACKDRAFT DAMPER (BDD)</p> <p>--- LOUVRE</p> <p>--- AIR FLOW DIRECTION</p> <p>--- LOUVERED GRILLE</p> <p>--- ERV SUPPLY DUCTING</p> <p>--- ERV EXHAUST DUCTING</p> <p>--- EXISTING DUCTING</p> <p>--- SUPPLY DUCT</p> <p>--- RETURN DUCT OR RETURN EGGRATE GRILLE</p> <p>--- CIRCULAR DUCT</p> <p>--- FLEXIBLE SUPPLY DUCTING</p> <p>--- SUPPLY DIFFUSER</p>	<p>NOT ALL SYMBOLS & ABBREVIATIONS ARE USED IN DRAWINGS</p>	

LOUVRES SCHEDULE										
TAG	MAKE	MODEL	DESCRIPTION	WIDTH (mm)	HEIGHT (mm)	FREE AREA, (%)	AIR VELOCITY, FPM	PRESSURE DROP IN. WG	AIRFLOW, CFM	REMARKS/ ACCESSORIES
LV-1	GREENHECK	ESD-403	INTAKE LOUVRE	900	600	50	12	0.025	75	C/W BIRD SCREEN
LV-2	GREENHECK	ESD-403	EXHAUST LOUVRE	300	600	30	563	0.05	325	C/W BIRD SCREEN
LV-3	GREENHECK	ESD-403	INTAKE LOUVRE	900	600	50	12	0.025	100	C/W BIRD SCREEN AND MOTORIZED DAMPER
LV-4	GREENHECK	ESD-403	NATURAL VENTILATION	900	600	50	-	-	-	C/W BIRD SCREEN

FAN SCHEDULE											
TAG	MAKE	MODEL	DESCRIPTION	CFM	ESP, IN. W.C.	RPM	V/φ/Hz	AMPS	MCA	MOCF	REMARKS/ACCESSORIES
EF-1	GREENHECK	CSP-A390-VG	INLINE, DIRECT DRIVE, VARI-GREEN	325	0.5	1403	120/1/60	1.5	1.9	15	TO RUN ON TIMER. ON: 8AM-8PM, OFF: 8PM-8AM

PLUMBING AND DRAINAGE EQUIPMENT SCHEDULE						
TAG	FIXTURE	PIPE SIZE (mm)			DESCRIPTION	ACCESSORIES/ REMARKS
		SANITARY	COLD	HOT		
BFP-1	BACKFLOW PREVENTER	-	-	-	WATTS LF007M1QT-S, LEAD FREE, 2" DIA.	C/W ISOLATION VALVES & STRAINER
EX-1	EXPANSION TANK	-	12	-	AMTROL THERMAL EXPANSION TANK, MODEL ST-5, ASME, HEAVY DUTY BUTYL NSF/ANSI 61 DIAPHRAGM, TANK VOLUME: 2 GAL, 0.45 ACCEPTANCE FACTOR, 3/4" CONNECTION, 5LBS	
WC1	WATER CLOSET	75	25	-	MADERA FLOWISE 16-1/2" HEIGHT 1.1 GPF FLUSHOMETER TOILET SYSTEM	FLOOR MOUNT ELONGATED FLUSHOMETER VALVE TOILET, VITREOUS CHINA HIGH EFFICIENCY, OPERATES IN THE RANGE OF 1.1 GPF TO 1.6 GPF (4.2 LPF TO 6.0 LPF), ADA COMPLIANT NON-HOLD OPEN HANDLE PROVIDES AUTOMATIC SHUT-OFF AFTER EVERY FLUSH MODEL 6047.111. DCW SUPPLY: MCGUIRE LFH166LK.
LV1	LAVATORY	38	12	12	MURRO UNIVERSAL DESIGN WALL-HUNG LAVATORY	VITREOUS CHINA WITH EVERCLEAN, AVAILABLE WITH REAR OVERFLOW OR LESS OVERFLOW, RECESSED SELF-DRAINING DECK FOR CONCEALED ARM OR WALL SUPPORT, VITREOUS CHINA SHROUD/KNEE CONTACT GUARD 0059.020EC. DCW SUPPLY: MCGUIRE LFBV2165. P-TRAP: MCGUIRE 201C. CARRIER WATTS WVA-411.
WC2	WATER CLOSET	75	12	12	BARRIER FREE, MADERA FLOWISE 16-1/2" HEIGHT 1.1 GPF FLUSHOMETER TOILET SYSTEM	FLOOR MOUNT ELONGATED FLUSHOMETER VALVE TOILET, VITREOUS CHINA HIGH EFFICIENCY, OPERATES IN THE RANGE OF 1.1 GPF TO 1.6 GPF (4.2 LPF TO 6.0 LPF), ADA COMPLIANT NON-HOLD OPEN HANDLE PROVIDES AUTOMATIC SHUT-OFF AFTER EVERY FLUSH MODEL 6047.111. DCW SUPPLY: MCGUIRE LFH166LK.
LV2	LAVATORY	38	12	12	BARRIER FREE, MURRO UNIVERSAL DESIGN WALL-HUNG LAVATORY	VITREOUS CHINA WITH EVERCLEAN, AVAILABLE WITH REAR OVERFLOW OR LESS OVERFLOW, RECESSED SELF-DRAINING DECK FOR CONCEALED ARM OR WALL SUPPORT, VITREOUS CHINA SHROUD/KNEE CONTACT GUARD 0059.020EC. DCW SUPPLY: MCGUIRE LFBV2165. P-TRAP: MCGUIRE 201C. CARRIER WATTS WVA-411.
MS1	MOP SINK	50	12	12	STERN WILLIAMS #MTB-2424, 'MTB SERIES', SERVICE / MOP SINK.	AMERICAN STANDARD #8354112.002, 'YOKE', TWO HANDLES FAUCET, STERN WILLIAMS T-35 HOSE AND WALL HOOK 914 MM LONG HOSE WITH 19MM CHROME COUPLING, SS WALL BRACKET, STERN WILLIAMS T-40 MOP HANGER, SS #4 FINISH, 610 MM LONG WITH 3 RUBBER SPRING LOADED CLIPS, STERN WILLIAMS BP BACK SPLASH PANEL 20 GA. 0.9 MM TYPE 304 STAINLESS STEEL. PROVIDE P-TRAP.
FD	FLOOR DRAIN	75	-	-	WATTS FD-100-C-A OR EQUIVALENT	
FFD	FUNNEL FLOOR DRAIN	75	-	-	WATTS FD-100-C-EG OR EQUIVALENT	
TSP1	ELECTRONIC TRAP SEAL PRIMER	-	-	-	MIFAB MI-100-5 OR EQUIVALENT	ADJUST THE FREQUENCY AND AMOUNT OF WATER DELIVERY THROUGH A TIMER AND STAINLESS STEEL SOLENOID VALVE. A MANIFOLD ENSURES THAT A MINIMUM OF 2 OUNCES OF WATER ARE DELIVERED TO EVERY PORT OVER A TWENTY-FOUR HOUR PERIOD. THE UNIT MUST BE MOUNTED 12" ABOVE THE FINISHED FLOOR.
NFHB	NON-FREEZE HOSE BIB	-	19	-	WATTS HY-420 OR EQUIVALENT	WITH CHROME FACE, INTEGRAL VACUUM BREAKER, WALL HYDRANT, ALL BRONZE. CHROME-PLATED FACE, SEAT CASTING, LOOSE KEY, BRONZE WALL CASING, UNSIZED THICKNESS, COMPLIES WITH ASME B1.20.7 AND ASSE 1019-2004, UPC/IAMPO LISTED. MAX OPERATING PRESSURE 125 PSI., INTERNAL WORKING PARTS.

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NOTES
 NOTES

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1	ISSUED FOR REVIEW	OCT/24	
2	ISSUED FOR SPA	APR/25	
3	ISSUED FOR TENDER	APR/25	

WILSON-SHEFFIELD PARK
TOWN OF COLLINGWOOD

MECHANICAL SCHEDULES, LEGEND AND DRAWING LIST



DESIGN: K.J.L.	FILE: 123308	DWG: M1.0
DRAWN: K.J.L.	DATE: OCT 2024	
CHECK: N.W.	SCALE: AS NOTED	

GENERAL SPECIFICATIONS:

- REVIEW WORK AREA AND READ DRAWINGS IN CONJUNCTION WITH ALL DISCIPLINES BEFORE COMMENCING WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND POTENTIAL ISSUES ON WORK-SITE. NO ADDITIONAL PAYMENTS WILL BE MADE RELATED TO CLAIMS FOR ITEMS THAT WOULD HAVE BEEN APPARENT IF THE WORK AREA AND ALL PLANS WERE REVIEWED PRIOR TO PRICING THE WORKS.
- THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR NECESSARY PERMITS PERTAINING TO THE INSTALLATION OF THEIR WORK AND PROVIDE ANY CERTIFICATES AND SIGN-OFFS AS CIRCUMSTANCES REQUIRE.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM TO THE OWNER SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR AND SUB-CONTRACTORS.
- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE, OCCUPATIONAL HEALTH AND SAFETY ACT, AND AUTHORITIES HAVING JURISDICTION. MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE CANADIAN STANDARDS ASSOCIATION, AND AUTHORITIES HAVING JURISDICTION. STANDARDS SET OUT IN DESIGN DRAWINGS SHALL NOT BE REDUCED BY CONFORMANCE TO APPLICABLE CODES AND STANDARDS. MAKE ALL MINOR MODIFICATIONS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION AT NO COST TO THE OWNER.
- SUBMIT ELECTRONIC SHOP DRAWINGS FOR EQUIPMENT LISTED ON THE SCHEDULES FOR REVIEW PRIOR TO ORDERING. REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES TO PROVIDE A COMPLETE WORKING SYSTEM CONSISTENT WITH THE INTENT OF THE DESIGN DRAWINGS. CONTRACTOR SHALL REVIEW DESIGN DRAWINGS, EQUIPMENT SCHEDULES AND SHOP DRAWINGS FOR ERRORS AND OMISSIONS AND ELEMENTS RELATING TO WORKS/ASSEMBLY ON-SITE.
- AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE MARKED UP RECORD DRAWINGS AND OPERATION AND MAINTENANCE MANUALS. THE FIRST PAGE OF THE OPERATION AND MAINTENANCE MANUAL SHALL BE A TYPE WRITTEN DOCUMENT EXPLAINING THE DETAILED MAINTENANCE REQUIREMENTS AND SCHEDULE FOR THE SYSTEM AND ANY OTHER INFORMATION THAT IS SPECIFIC TO THIS PROJECT. GENERIC OPERATIONS AND MAINTENANCE MANUALS WITH NO PROJECT SPECIFIC INFORMATION WILL NOT BE ACCEPTED.
- PROVIDE TRAINING FOR THE OPERATOR OR OWNER'S REPRESENTATIVE. PROVIDE COMMISSIONING SERVICES AS REQUIRED.
- LABEL ALL EQUIPMENT, PIPING, CONDUIT ETC.
- THE CONTRACTOR IS RESPONSIBLE FOR STORAGE AND SECURITY OF MATERIALS AND EQUIPMENT ON THE JOB SITE.
- THE OWNER'S PROPERTY MUST BE KEPT IN TIDY CONDITION. PROMPTLY REMOVE GARBAGE FROM THE SITE. CLEAN WORK AREA PRIOR TO ALL INSPECTIONS AND KEEP SITE IN A SAFE CONDITION.
- DESIGN DRAWINGS ILLUSTRATE THE GENERAL LAYOUT OF THE WORK ONLY. COORDINATE THE INSTALLATION OF WORK WITH OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LAYOUT OF EQUIPMENT AND MATERIALS AND ENSURING THERE ARE NO INTERFERENCES WITH OTHER SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THEIR WORK.
- EQUIPMENT SHALL BE INSTALLED, STARTED, TESTED, AND ADJUSTED AS PER THE MANUFACTURERS' INSTRUCTIONS, AND AS NECESSARY TO ENSURE OPTIMUM PERFORMANCE. EQUIPMENT SHALL BE INSTALLED TO ALLOW FOR EASY ACCESS AND MAINTENANCE.
- THE CONTRACTOR SHALL GUARANTEE WORK PERFORMED UNDER THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. ENSURE THAT ALL EQUIPMENT IS WARRANTED BY THE MANUFACTURER FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- MATERIALS AND EQUIPMENT SHALL BE NEW, TOP QUALITY AND SPECIFICATION GRADE, EXCEPT WHERE NOTED OTHERWISE.
- THIS SPECIFICATION SHALL BE CONSIDERED TO BE THE BASE BID SPECIFICATION AND CONTRACTORS MUST CARRY THE BASE BID MANUFACTURERS IN THEIR QUOTATION. ALTERNATE MANUFACTURERS OF EQUIPMENT CAN ONLY BE OFFERED AS PROPOSED ALTERNATES WITH THE CORRESPONDING PRICE REDUCTIONS PASSED ALONG TO OWNER.
- THE CONTRACTOR SHALL NOT WELD TO OR MAKE A HOLE IN A STRUCTURAL MEMBER WITHOUT REVIEW FROM THE STRUCTURAL ENGINEER. ATTACHMENTS TO STRUCTURAL MEMBERS SHALL BE MADE WITH SUITABLE CLAMPS OR CLIPS.
- THE GENERAL CONTRACTOR SHALL PROVIDE ALL OPENINGS AND REINFORCEMENT FRAMING AS REQUIRED.
- ALL MATERIALS IN CEILING SPACE USED FOR RETURN AIR PLENUM MUST BE PLENUM RATED.
- CONFIRM FIRE SEPARATIONS WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR. ALL PENETRATIONS THROUGH FIRE SEPARATIONS SHALL BE FITTED WITH EXPANSION SLEEVES AND ULC CERTIFIED FIRE STOPPING. ACCEPTABLE MATERIAL: HILTI OR APPROVED EQUIVALENT.
- THE OWNER RESERVES THE RIGHT TO MAKE MINOR ALTERATIONS TO THE LOCATION OF EQUIPMENT ETC AT NO ADDITION TO THE CONTRACT AMOUNT.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND INTENDED TO SERVE AS A GUIDE SHOWING QUANTITIES AND GENERAL ARRANGEMENTS AND ARE NOT NECESSARILY WORKING DRAWINGS FROM WHICH MEASUREMENTS CAN BE TAKEN, EXCEPT WHERE DIMENSION FIGURES ARE SPECIFICALLY SHOWN. INFORMATION INVOLVING ACCURATE MEASUREMENTS OF BUILDING SHALL BE TAKEN FROM ARCHITECTURAL BUILDING DRAWINGS OR FROM THE SITE.
- MAINTAIN ADEQUATE LIABILITY INSURANCE TO PROTECT OWNER AND ALL CONTRACTORS.
- TEMPORARY LIGHTING AND POWER FOR CONSTRUCTION BY GENERAL CONTRACTOR.
- ALL EQUIPMENT, PIPING, CONDUIT, WIRING, JUNCTION BOXES, HARDWARE, ETC. INSTALLED IN OPEN CEILING SPACES SHALL BE INSTALLED IN AN INCONSPICUOUS AND AESTHETICALLY PLEASING MANNER UP TO THE SOLE DISCRETION OF THE OWNER AND ENGINEER. ALL EQUIPMENT, PIPING, CONDUIT, WIRING, JUNCTION BOXES, HARDWARE SHALL BE INSTALLED IN CHASES, ABOVE ADJACENT CEILINGS WHERE POSSIBLE.
- PAINT ALL EXPOSED DUCTWORK, PIPING, CONDUIT, CABLE TRAYS, JUNCTION BOXES, HANGERS, HARDWARE ETC. REFER TO ARCHITECT OR INTERIOR DESIGNER'S DRAWINGS.
- SUITABLE ACCESS DOORS MUST BE PROVIDED WHERE NECESSARY TO ACCESS VALVES, JUNCTION BOXES, CLEAN OUTS, FIRE DAMPERS, AND OTHER EQUIPMENT AND APPURTENANCES. ALL ITEMS REQUIRING ACCESS PANELS ARE NOT NECESSARILY SHOWN, CARRY A REASONABLE COST ALLOWANCE. COORDINATE EXACT LOCATION OF COMPONENTS REQUIRING ACCESS AND SELECT SIZES WHICH ARE SUITABLE FOR MAINTENANCE.
- 27.1. FOR GYPSUM WALLS AND CEILINGS IN OCCUPIED AREAS, PROVIDE CONCEALED DOORS WITH 5/8" RECESS TO RECEIVE DRYWALL, ACCEPTABLE MATERIAL: FOR STANDARD CEILINGS AND WALLS ACUDOR DW-5015 OR EQUIVALENT, FOR 90 MINUTE FIRE RATING ACUDOR FW(C)-5015 OR EQUIVALENT, FOR GREATER RATING, CONTACT ENGINEER AND ARCHITECT.
- 27.2. FOR GYPSUM, PLASTER, MASONRY OR TILE WALLS AND CEILINGS IN UTILITY AND STORAGE AREAS, PROVIDE UNIVERSAL FLUSH ACCESS DOOR, ACCEPTABLE MATERIAL: FOR STANDARD CEILINGS AND WALLS ACUDOR UF-5000 OR EQUIVALENT, FOR 90 MINUTE FIRE RATING ACUDOR FW-5050, FOR GREATER RATING, CONTACT ENGINEER AND ARCHITECT.
- PAY FOR AND COORDINATE ALL UTILITY LOCATES AS REQUIRED.
- PROVIDE WATER-PROOFING OF BUILDING OPENINGS RELATED TO THE WORK OF ALL TRADES.

HVAC SPECIFICATIONS

- DUCTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE, AND THE ASHRAE AND SMACNA STANDARDS.
- AIR DISTRIBUTION SYSTEMS MUST BE BALANCED TO WITHIN 5% OF THE SPECIFIED VALUES SHOWN ON THE DRAWINGS. BALANCE AIR HANDLING UNITS PROVIDING VENTILATION TO THE VENTILATION LEVELS SHOWN. THE BALANCING MUST BE PERFORMED BY AN INDEPENDENT, NEBB CERTIFIED FIRM. SPECIALIZING IN THIS WORK. THE MECHANICAL CONTRACTOR SHALL TURN OVER THE BALANCING REPORT PRIOR TO SUBSTANTIAL COMPLETION BEING AWARDED AND A GENERAL CONFORMANCE LETTER BEING ISSUED.
- BALANCING DAMPERS MUST BE INSTALLED IN THE AIR DISTRIBUTION SYSTEMS AS SHOWN ON THE DRAWINGS AND AS NECESSARY TO ALLOW PROPER BALANCING.
- DUCTS MUST BE SEALED TO PREVENT AIR LEAKAGE. SEAL TO SMACNA AND ASHRAE 90.1 STANDARDS. FOR UNPAINTED DUCTS INSTALLED IN VISIBLE SPACES, THE DUCT MASTIC IS TO BE APPLIED TO THE INTERIOR OF DUCT JOINTS AND PENETRATIONS AND SHALL NOT BE VISIBLE FROM THE EXTERIOR. MASTIC MAY BE APPLIED TO THE EXTERIOR OF DUCTS ONLY IN AREAS WHERE IT IS NOT VISIBLE TO OCCUPANTS. EXPOSED MASTIC SHALL BE PAINTABLE AND IS TO BE APPLIED NEATLY WITH THE EXCESS REMOVED. REFER TO ARCHITECT'S DRAWINGS TO CONFIRM WHETHER OR NOT DUCTS ARE TO BE PAINTED.
- FLEXIBLE DUCT CONNECTIONS SHALL BE USED TO CONNECT FANS OR AIR HANDLERS TO RIGID DUCT TO REDUCE THE TRANSFER OF NOISE VIBRATION.
- DUCT SIZES ARE SHOWN IN INCHES AND DO NOT INCLUDE FOR INTERNAL INSULATION.
- EQUIPMENT SHALL BE ASHRAE 90.1 COMPLIANT.
- LINE VOLTAGE STARTERS, CONTROLS AND EQUIPMENT SAFETY SWITCHES SHALL BE SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED ON DESIGN DRAWINGS. LOW VOLTAGE STARTERS AND CONTROLS SHALL BE SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.
- ELECTRICAL WIRING, CONDUIT, JUNCTION BOXES, BACK BOXES, MOUNTING HARDWARE ETC. ABOVE 24V TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTROLS WIRING, CONDUIT, JUNCTION BOXES, BACK BOXES, MOUNTING HARDWARE ETC. 24V AND BELOW TO BE INSTALLED BY MECHANICAL CONTRACTOR (MECHANICAL CONTRACTOR MAY SUB-CONTRACT THIS WORK TO ELECTRICAL CONTRACTOR).
- ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE MAINTAINED. THE CONTRACTOR SHALL LAY OUT THE WORK BASED ON THE MANUFACTURER'S RECOMMENDED CLEARANCES AND ADVISE ENGINEER IMMEDIATELY IF ANY SITE CONDITIONS NEGATIVELY AFFECT THE PROPER INSTALLATION OF ALL EQUIPMENT.
- THIS CONTRACTOR SHALL REVIEW AND CONFIRM ALL EXISTING INDOOR METALLIC PIPING SYSTEMS ARE BONDED. PROVIDE BONDING FOR ALL NEW INDOOR METALLIC PIPING SYSTEMS AND EXISTING SYSTEMS WITHOUT PROPER BOND. BONDING SHALL BE INSTALLED TO THE REQUIREMENTS OF OESC 10-406. THE GENERAL CONTRACTOR SHALL DETERMINE IF BONDING IS BY MECHANICAL OR ELECTRICAL.

PLUMBING SPECIFICATIONS:

- DRAIN LINES ARE TO BE SUBJECT TO A WATER TEST AND WATER LINES ARE TO BE TESTED TO THE SATISFACTION OF THE LOCAL PLUMBING INSPECTOR.
- PROVIDE TRAP SEAL PRIMER FOR ALL FLOOR DRAINS AND HUB DRAINS TO THE SATISFACTION OF THE AHJ.
- ALL CLEANOUTS ARE NOT SHOWN. CLEANOUTS ARE TO BE PROVIDED IN ACCORDANCE WITH THE ONTARIO PLUMBING CODE AND REQUIREMENTS INCLUDING AT THE BOTTOM OF STACKS AND ALONG HORIZONTAL RUNS. ENSURE THAT CLEANOUTS ARE INCLUDED AT INTERVALS NECESSARY.
- WATER HAMMER ARRESTORS ARE TO BE INSTALLED WHERE NECESSARY TO PREVENT WATER HAMMER IN WATER LINES.
- CONNECT WATER LINES AT POINTS OF DISTRIBUTION TO NEARBY EQUIPMENT. SIZE WATER LINES TO EACH PIECE OF EQUIPMENT AS SHOWN BY THE PLUMBING EQUIPMENT SCHEDULE.

- GRADE HORIZONTAL WATER LINES TO ENSURE PROPER DRAINAGE. INSTALL DRAIN VALVES IN ACCESSIBLE LOCATIONS AT LOW POINTS.
- GRADE HORIZONTAL SANITARY PIPING AS SHOWN ON DESIGN DRAWINGS AND PER OBC. GRADE HORIZONTAL VENT PIPING TO DRAIN BACK TO SANITARY PIPES BY GRAVITY.
- DOMESTIC COLD WATER LINES SHALL BE INSULATED WITH 1" THICK PREFORMED FIBERGLASS INSULATION AND DOMESTIC HOT WATER LINES SHALL BE INSULATED WITH 1.5" THICK PREFORMED FIBERGLASS INSULATION WITH AN ASJ VAPOUR BARRIER. JOINTS AND SEAMS MUST BE SEALED. WHEREVER EXPOSED TO VIEW THIS INSULATION SHALL HAVE A BRUSH COAT OF FIRE RETARDANT MASTIC WITH A LAYER OF 6 OUNCE CANVAS WRAP OR PVC JACKET. JACKET TO BE PAINTED AS PER ARCHITECTURAL DRAWINGS.
- HANGERS FOR HORIZONTAL PIPING SHALL BE BLACK OR COPPER, AS APPROPRIATE, CLEVIS HANGERS MANUFACTURED BY ANVIL OR MYATT.
- HANGERS FOR VERTICAL PIPING SHALL BE BLACK OR COPPER, AS APPROPRIATE, RISER CLAMPS MANUFACTURED BY ANVIL OR MYATT.
- BALL VALVES SHALL BE FULL PORT AND SOLID BALL.
- SET FIXTURES LEVEL, SQUARE, AND CENTERED WITH RELATION TO FLOORS, WALLS, AND PARTITIONS.
- SET FIXTURES AT STANDARD HEIGHT FROM FLOOR TO RIM UNLESS DIRECTED OTHERWISE.
- INSTALL SHUT OFF VALVES ON EACH WATER SUPPLY TO EQUIPMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION AND BACK FILL REQUIRED FOR THE INSTALLATION OF UNDERGROUND WORK. BACK FILL MATERIAL MUST BE CLEAN AND PROPERLY COMPACTED.
- PIPES AND EQUIPMENT MUST BE INSTALLED SO AS TO MINIMIZE THE TRANSFER OF VIBRATION TO THE BUILDING AND ALSO TO ALLOW FOR EXPANSION AND CONTRACTION AS NECESSARY.
- EQUIPMENT SHALL BE ASHRAE 90.1 COMPLIANT.
- THE MECHANICAL CONTRACTOR SHALL INSTALL PIPE WITH SLEEVES IN ORDER TO PREVENT CONTACT WITH CONCRETE, MASONRY OR SIMILAR MATERIALS.
- ROOF CONES AND FLASHINGS ARE TO BE SUPPLIED BY THE MECHANICAL CONTRACTOR, INSTALLED BY THE GENERAL CONTRACTOR/ROOFER.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE RESTRAINT SYSTEMS FOR MECHANICAL EQUIPMENT AND PIPING AS REQUIRED BY APPLICABLE LOCAL BUILDING CODES.
- ALL DOMESTIC WATER PIPING ABOVE GRADE SHALL BE HARD DRAWN TYPE 'L' COPPER PIPE WITH SOLDER JOINT PRESSURE FITTINGS AND LEAD FREE SOLDER;
- ALL SANITARY, STORM AND VENT PIPING ABOVE GRADE SHALL BE TO CSA B181.2. ACCEPTABLE MATERIAL:
 - ANY SIZE IPEX SYSTEM 15 PVC OR APPROVED EQUIVALENT. IPEX SYSTEM XFR OR APPROVED EQUIVALENT SHALL BE USED IN PLENUMS AS REQUIRED.
- ALL SANITARY, STORM AND VENT PIPING BELOW GRADE SHALL BE TO CSA B181.2. ACCEPTABLE MATERIAL:
 - IPEX SCH 40 PVC OR SDR35 OR APPROVED EQUIVALENT.
- COORDINATE REQUIREMENTS FOR CHASES WITH GENERAL CONTRACTOR.
- PROVIDE TRAPS/DRAINS AND VENTS FROM INDIVIDUAL FIXTURES SIZED PER OBC. PROVIDE TRAPS/DRAINS AND VENTS FOR MULTIPLE FIXTURES PER DESIGN DRAWINGS. DO NOT REDUCE THE STANDARDS SET BY THE OBC IN ANY CASE.
- THIS CONTRACTOR SHALL REVIEW AND CONFIRM ALL EXISTING INDOOR METALLIC PIPING SYSTEMS ARE BONDED. PROVIDE BONDING FOR ALL NEW INDOOR METALLIC PIPING SYSTEMS AND EXISTING SYSTEMS WITHOUT PROPER BOND. BONDING SHALL BE INSTALLED TO THE REQUIREMENTS OF OESC 10-406. GC SHALL DETERMINE IF BONDING IS BY MECHANICAL OR ELECTRICAL.
- NO EXPOSED PIPING SHALL BE PERMITTED ON WALLS/PARTITIONS UNLESS OTHERWISE NOTED.
- BACKFLOW PREVENTER AND METER ASSEMBLIES SHALL BE INSTALLED ACCORDING TO LOCAL CODES. THE FOLLOWING TYPICAL CLEARANCES HAVE BEEN PROVIDED, HOWEVER, LOCAL CODES TAKE PRECEDENT.
 - BACKFLOW PREVENTER CLEARANCES:
 - CENTRELINE HEIGHT ABOVE FLOOR - MIN 750mm, MAX 1500mm
 - BEHIND - MIN 20mm
 - IN FRONT - 750mm
 - ABOVE - 300mm
 - TYPICAL WATER METER CLEARANCES: CONFIRM WITH LOCAL AUTHORITY HAVING JURISDICTION BEFORE INSTALLATION.

WINTERIZATION

- THE FOLLOWING METHOD OF WINTERIZATION IS REQUIRED TO BE USED FOR ADEQUATE PROTECTION AS WILL BE DETERMINED BY COMBINED CLIMATIC AND PROCESS CONDITION FOR SEASONAL OPERATION AND HEAT CONSERVATION:
 - VENT / DRAIN ON LINES AND EQUIPMENT
 - 1.1.1. WINTERIZING BY DRAINING REQUIRE PARTICULAR ATTENTION WHICH MUST BE GIVEN TO VENTS AND DRAINS ON UTILITY LINES AND EQUIPMENT FOR ELIMINATING LOW SPOTS OR DEAD ENDS IN WHICH WATER AND OTHER LIQUIDS CAN COLLECT AND FREEZE. DURING SHUT-DOWN AND NON-OPERATING PERIOD THESE LINES MAY COMPLETELY BE DRAINED.
 - PIPING FOR WATER SERVICES:
 - 2.1. WHEN DAILY MEAN TEMPERATURE IS BELOW 0°C, UNDERGROUND WATER SYSTEMS (INCLUDING SEWERS) SHALL BE INSTALLED AT A MINIMUM OF 300 MM BELOW THE FROST LINE. ABOVE GROUND PORTION OF WATER SYSTEMS SHALL BE WINTERIZED BY SUCH MEANS AS HEAT TRACING OR DRAINING COMPONENT, OF THE SYSTEM AFTER EACH USE.
 - 2.2. WHERE BRANCH SINGLE SERVICE LINES RISES FROM BELOW GROUND, BLOCK VALVES SHALL BE PROVIDED IN THE RISERS JUST ABOVE THE GROUND. THE FOLLOWING ARRANGEMENT WILL PROVIDE PROTECTION AGAINST FREEZING:
 - 2.2.1. A DRAIN SHALL BE PROVIDED IN THE LINE AT A MINIMUM DISTANCE ABOVE THE BLOCK VALVE, EXCEPT THAT FOR 150 MM AND LARGER SIZE VALVES A DRAIN SHALL BE PROVIDED IN THE VALVE BODY ABOVE THE SEAT.
 - 2.2.2. 25 MM OF INSULATION SHALL BE PROVIDED AROUND THE PIPING, FROM THE GROUND UP TO AND INCLUDING THE BLOCK VALVES IN THE WATER RISERS.

SEQUENCE OF OPERATIONS:

- EXHAUST FAN EF-1 SHALL OPERATE BASED ON AN ADJUSTABLE TIMER. ON: 8 AM - 8 PM, OFF: 8 PM - 8 AM.
- EF-1 SHALL BE INTERLOCKED WITH MOTORIZED DAMPER MD-1 WHEN EF-1 IS SEQUENCED ON, MD-1 SHALL OPEN AND THE RESPECTIVE END SWITCH WILL START AND OPERATE EF-1 FOR THE DURATION OF THE TIMED SCHEDULE. WITH EF-1 OFF, DAMPER MD-1 ASSUME A NORMALLY CLOSED POSITION.
- PROVIDE HAND-OFF-AUTO CONTROL PANEL.
- SEE ELECTRICAL DRAWINGS FOR CONTROL WIRING DETAILS.

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NOTES

NOTES

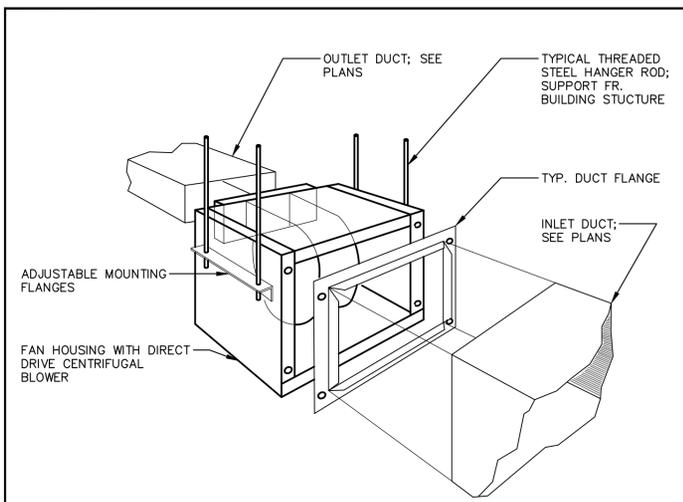
No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1	ISSUED FOR REVIEW	OCT/24	
2	ISSUED FOR SPA	APR/25	
3	ISSUED FOR TENDER	APR/25	

WILSON-SHEFFIELD PARK
TOWN OF COLLINGWOOD



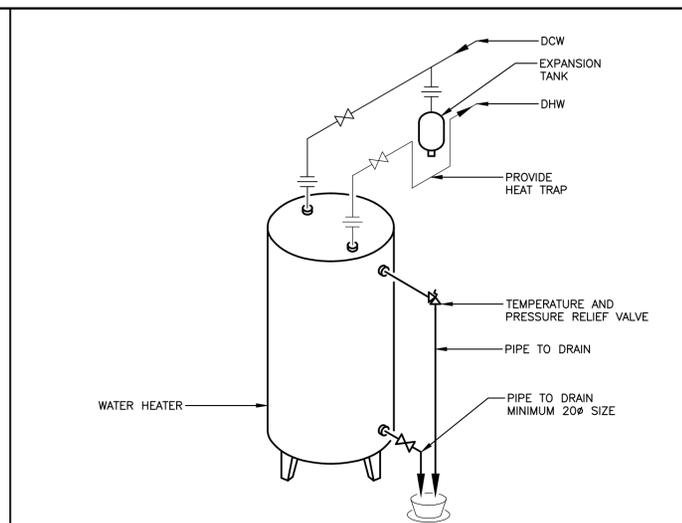
MECHANICAL SPECIFICATIONS

DESIGN: K.J.L.	FILE: 123308	DWG:
DRAWN: K.J.L.	DATE: OCT 2024	M1.1
CHECK: N.W.	SCALE: AS NOTED	



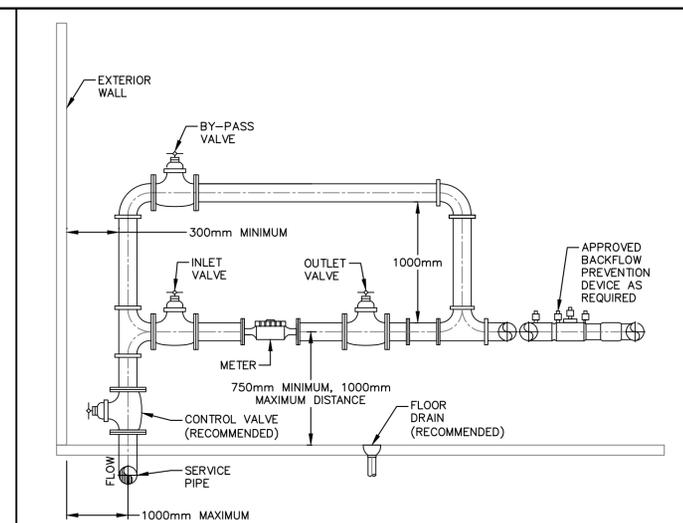
INLINE EXHAUST FAN DETAIL

- N.T.S.



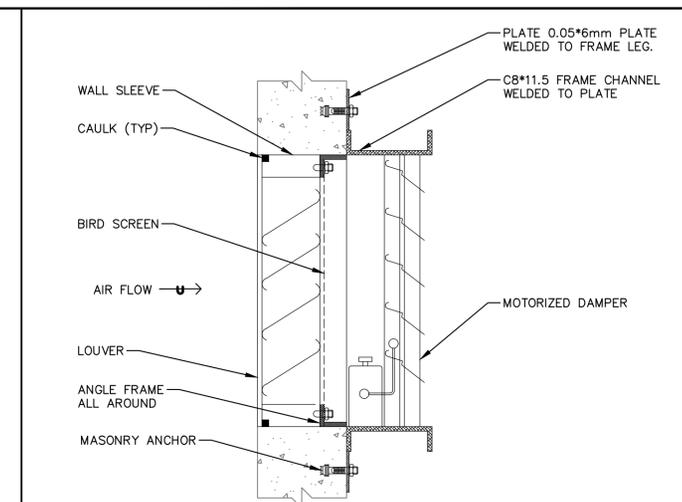
DOMESTIC HOT WATER HEATER DETAIL

- N.T.S.



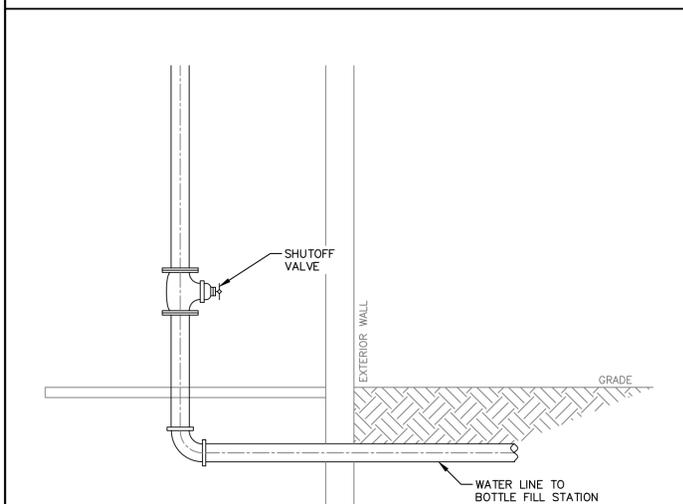
WATER METER DETAIL

- N.T.S.



LOUVER WITH MOTORIZED DAMPER

- N.T.S.



BACKFLOW PREVENTER DETAIL

- N.T.S.

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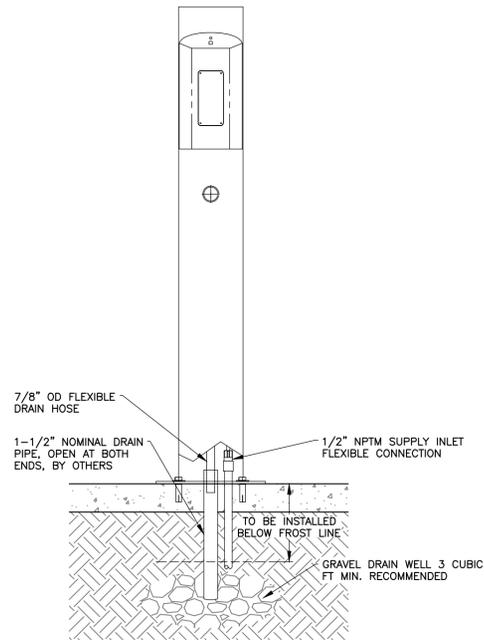
NOTES
 NOTES

No.	REVISION DESCRIPTION	DATE
1	ISSUED FOR REVIEW	OCT/24
2	ISSUED FOR SPA	APR/25
3	ISSUED FOR TENDER	APR/25

ENGINEER STAMP
 Professional Engineers Ontario
 April 21, 2025
Licensed Engineering Technologist
 Name: K. J. LAUGHTON
 Number: 100562766
 Limitations: Design of HVAC systems and plumbing systems for domestic water, sanitary and stormwater collection; includes calculations for heat gain and loss, and sizing of equipment, ductwork and piping.
 Association of Professional Engineers of Ontario

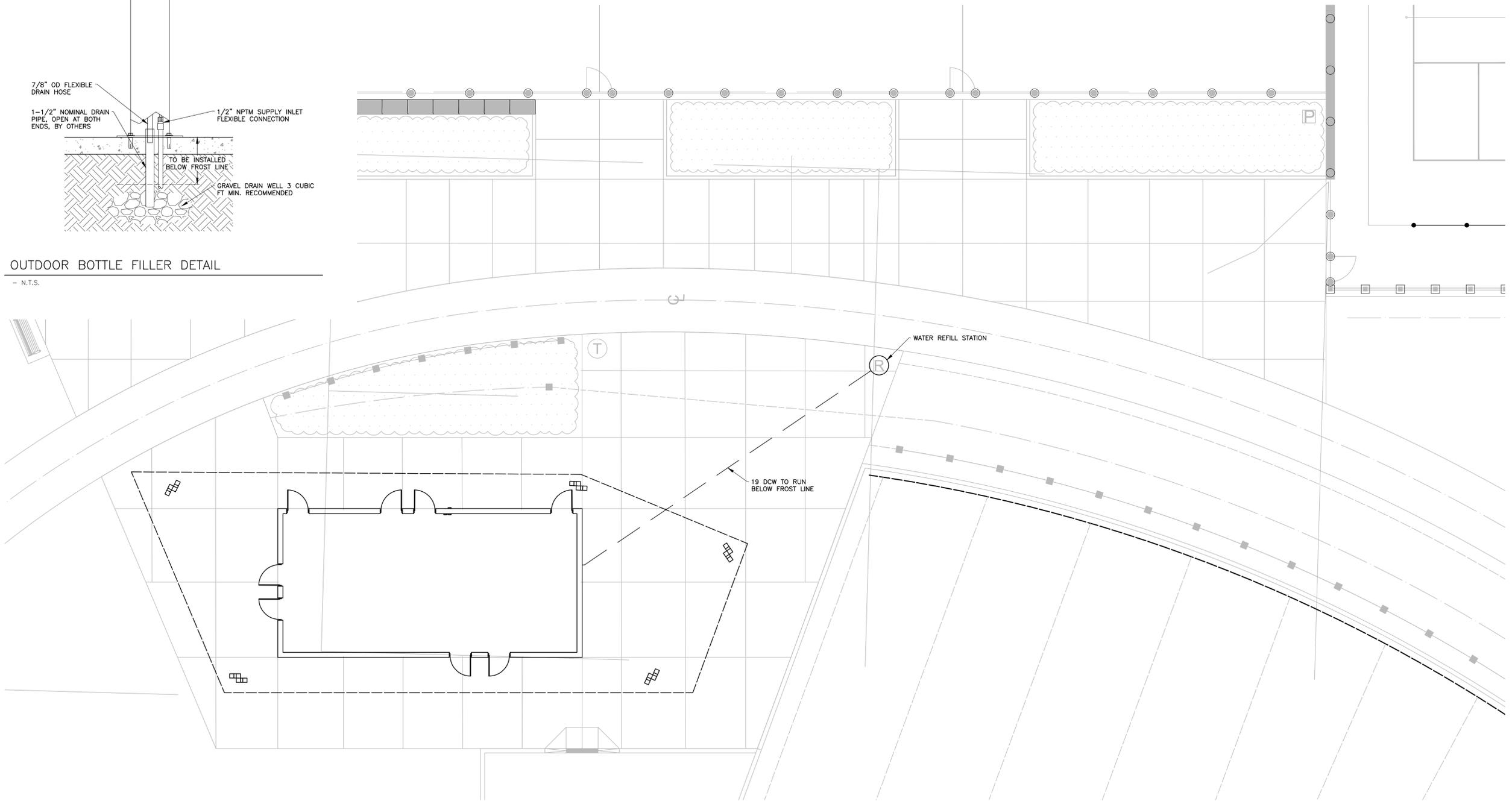
WILSON-SHEFFIELD PARK
TOWN OF COLLINGWOOD
MECHANICAL DETAILS

TATHAM ENGINEERING
 DESIGN: K.J.L. FILE: 123308 DWG: **M1.2**
 DRAWN: K.J.L. DATE: OCT 2024
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OUTDOOR BOTTLE FILLER DETAIL

- N.T.S.



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**WILSON-SHEFFIELD PARK
TOWN OF COLLINGWOOD**

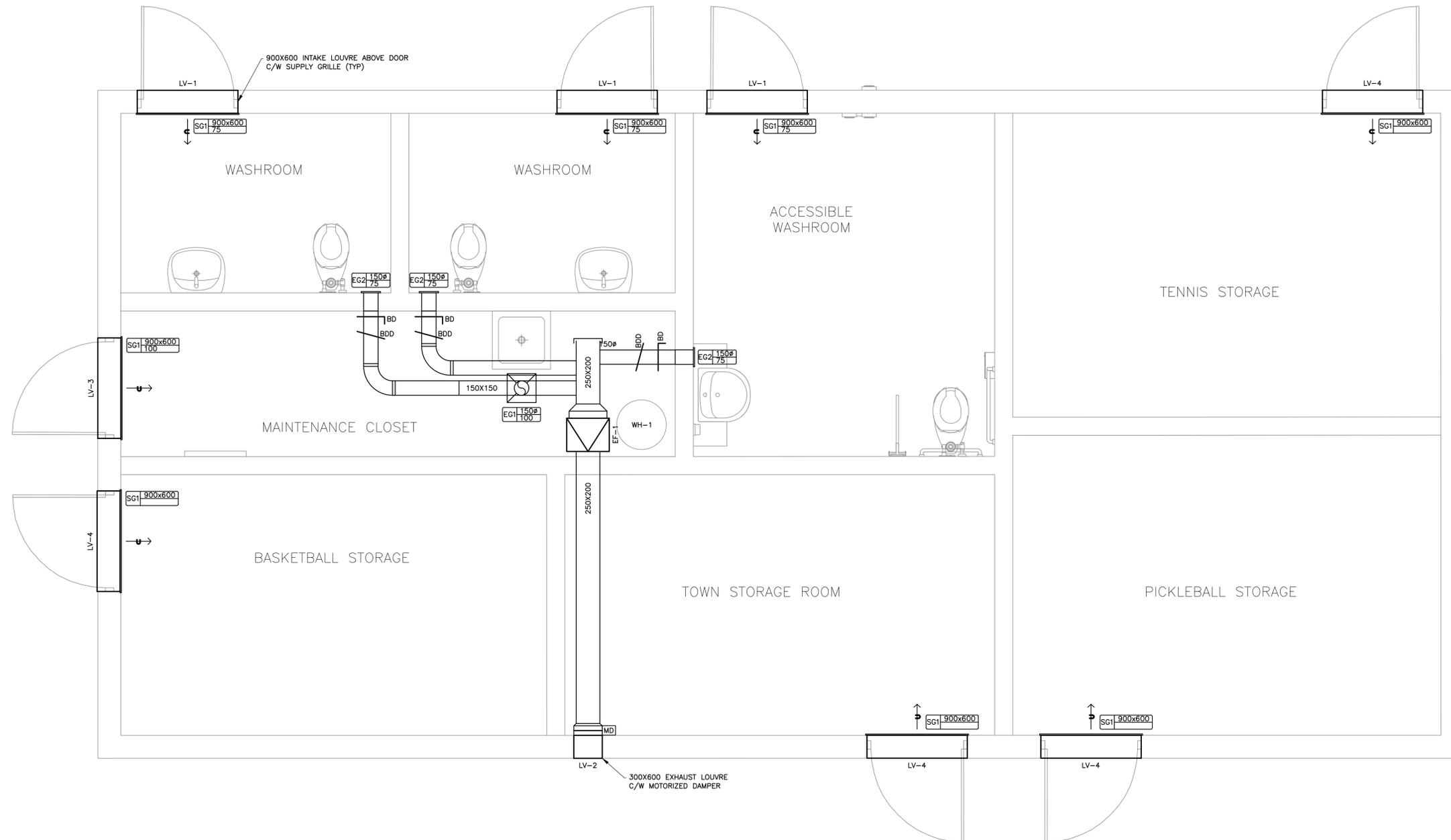


MECHANICAL DETAILS

DESIGN: K.J.L.	FILE: 123308	DWG: M1.3
DRAWN: K.J.L.	DATE: OCT 2024	
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GENERAL NOTES

1. BACKDRAFT DAMPERS SHALL BE GREENHECK BD SERIES OR EQUIVALENT.



1 HVAC LAYOUT
M1.4 SCALE: 1:25

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WILSON-SHEFFIELD PARK
TOWN OF COLLINGWOOD

HVAC LAYOUT

TATHAM ENGINEERING

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