



**Engineering
and Parks
Standards
Manual**

Part 6

2024 - September

Standard Drawings

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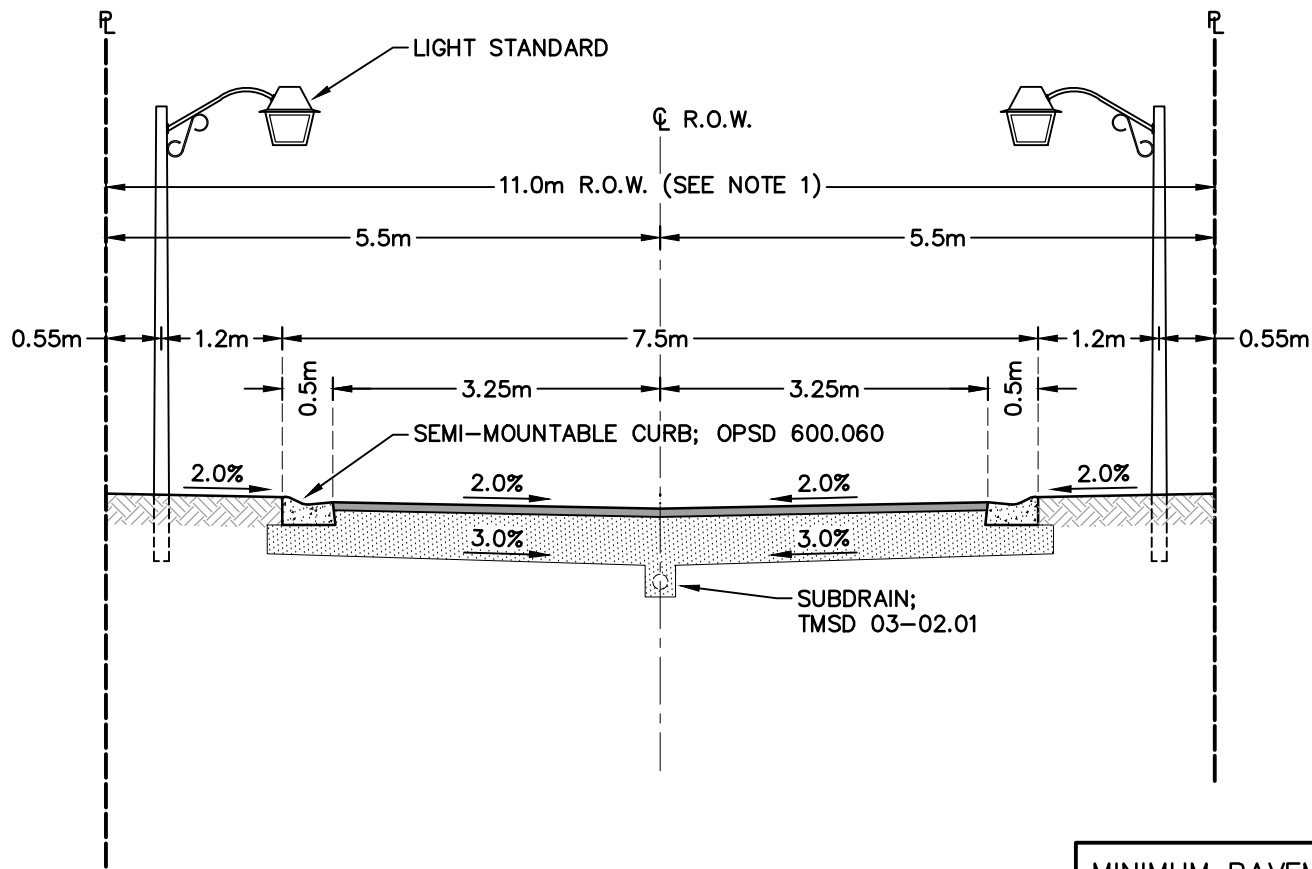
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NOTES:

1. ROW WIDTH MAY VARY FROM 8.5m TO 11.0m, SUBJECT TO THE LOCATION AND REQUIREMENTS FOR UTILITIES AND SERVICING INFRASTRUCTURE, AS DETERMINED THROUGH FUNCTIONAL DESIGN.
2. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
3. LANEWAY TO BE POSTED WITH 'NO-PARKING' SIGNS.

MINIMUM PAVEMENT STRUCTURE

[Pattern]	← 40mm	HL3 SURFACE
[Pattern]	← 50mm	HL8 BINDER
[Pattern]	← 150mm	19mm LIMESTONE
[Pattern]	← 300mm	GRAN. 'B' TYPE II
	540mm	TOTAL

Title

11.0m ROAD ALLOWANCE LANEWAY

Scale

1:75

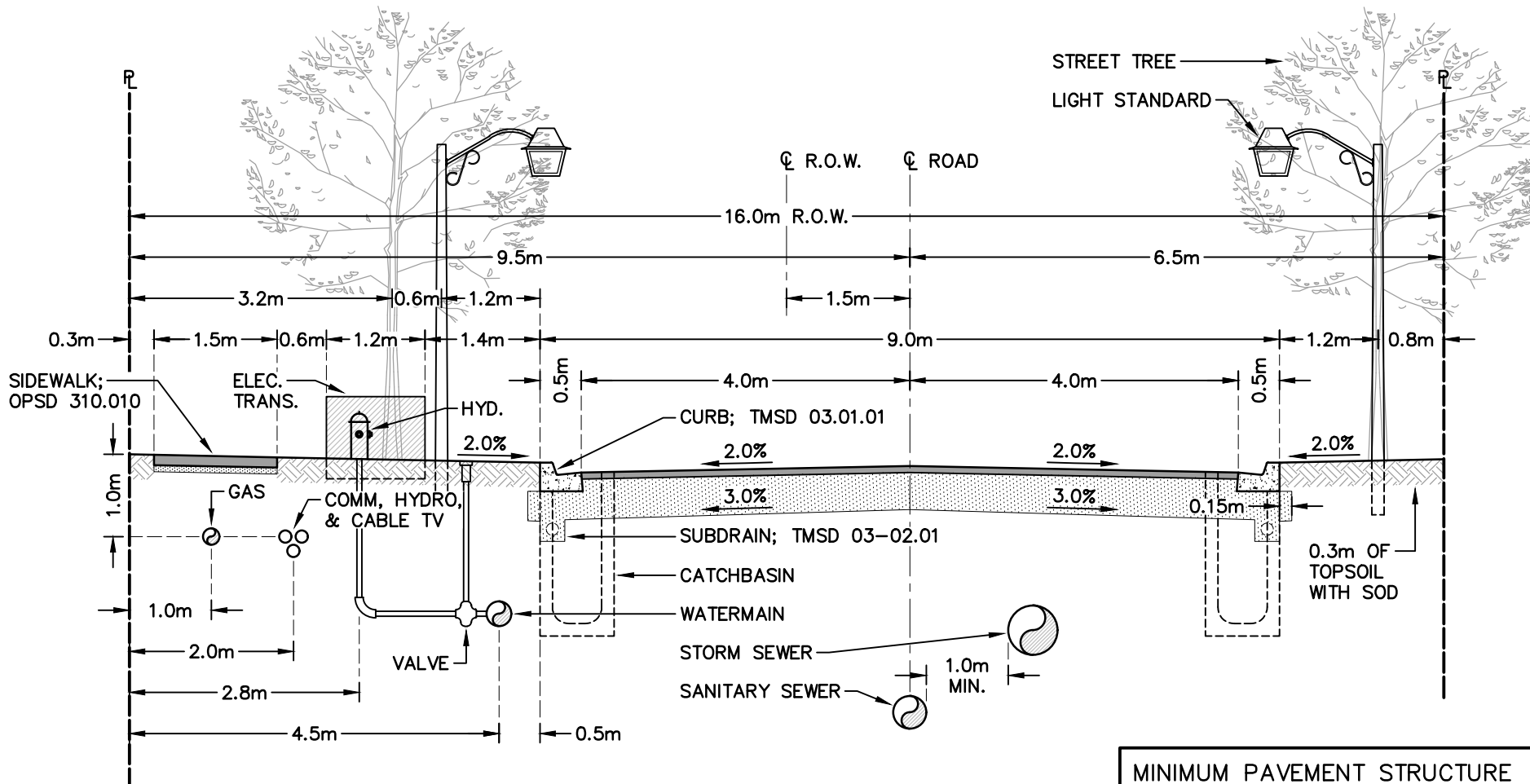
Rev. Date

2024/SEP

Standard No.

01-11.01





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. 'SINGLE LOADED' AND 'DOUBLE LOADED' REFERS TO BUILDINGS FRONTING THE R.O.W. ON EITHER ONE OR BOTH SIDES; NOT TO SIDEWALK LOCATIONS.
3. BUILDINGS ARE TO FRONT ON THE SIDE OF THE R.O.W. WITH THE LARGER BOULEVARD.

MINIMUM PAVEMENT STRUCTURE

	← 40mm	HL3 SURFACE
	← 80mm	HL8 BINDER
	← 150mm	19mm LIMESTONE
	← 300mm	GRAN. 'B' TYPE II
		570mm TOTAL

Title

16.0m ROAD ALLOWANCE MINOR LOCAL SINGLE LOADED

Scale

1:75

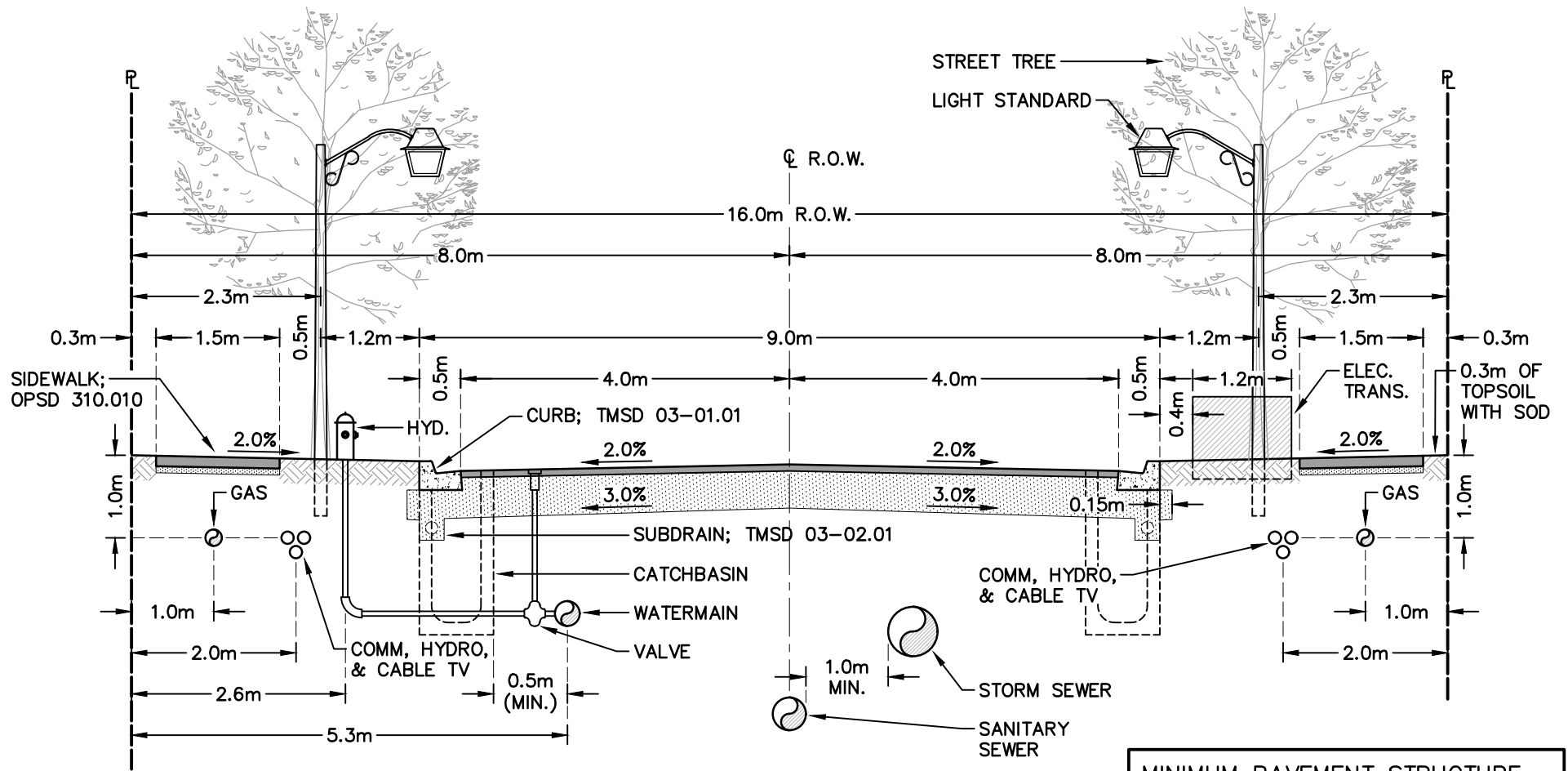
Rev. Date

2024/SEP

Standard No.





01-16.01





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. 'SINGLE LOADED' AND 'DOUBLE LOADED' REFERS TO BUILDINGS FRONTING THE R.O.W. ON EITHER ONE OR BOTH SIDES; NOT TO SIDEWALK LOCATIONS.
3. SIDEWALK IS TO BE INSTALLED ON BOTH SIDES OF THE R.O.W. UNLESS OTHERWISE JUSTIFIED BY THE PEDESTRIAN ROUTING PLAN.
4. ELECTRICAL TRANSFORMERS ARE PERMITTED ON EITHER SIDE OF THE R.O.W.

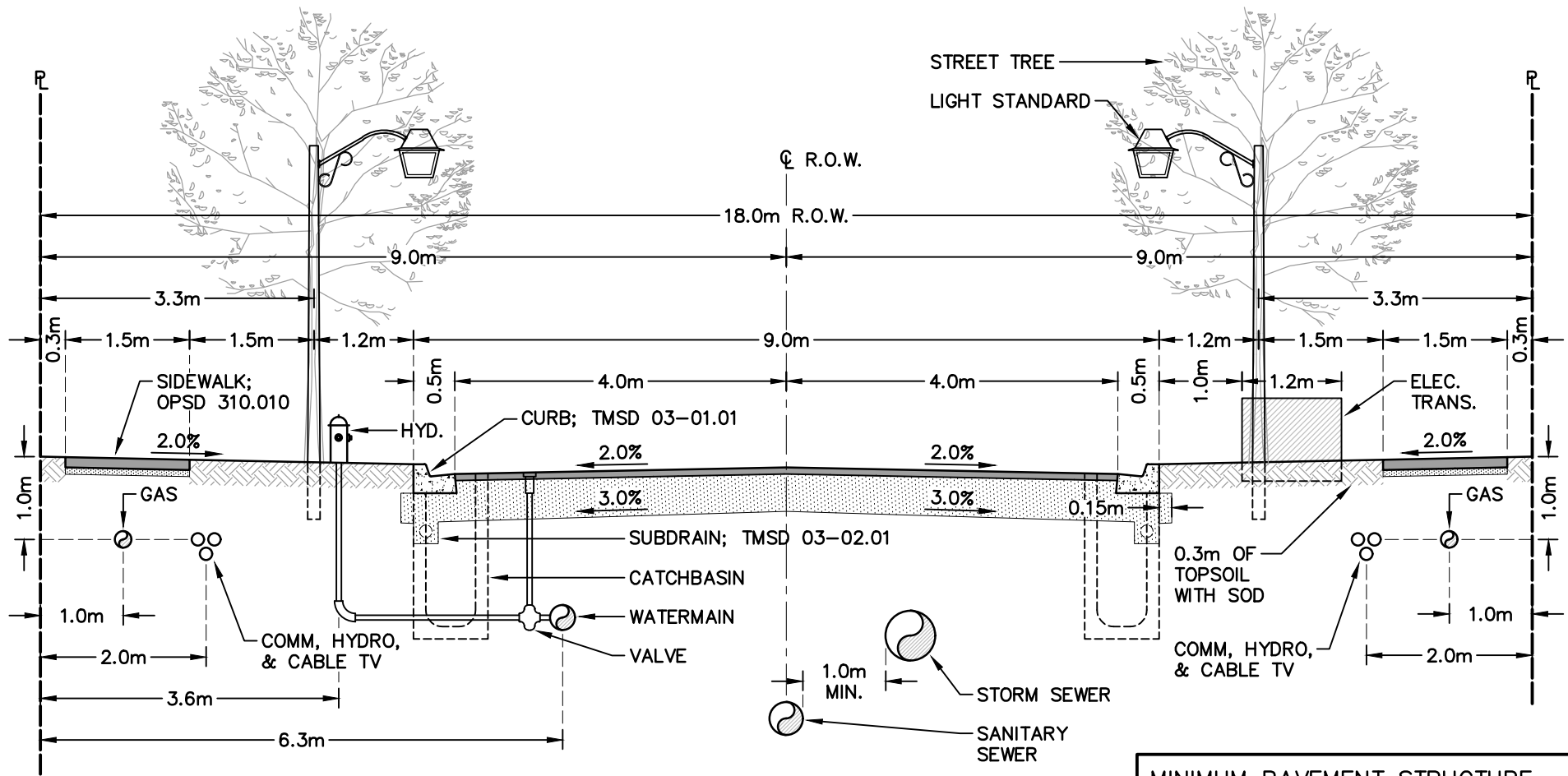
MINIMUM PAVEMENT STRUCTURE	
	40mm HL3 SURFACE
	80mm HL8 BINDER
	150mm 19mm LIMESTONE
	300mm GRAN. 'B' TYPE II
	570mm TOTAL

Title

16.0m ROAD ALLOWANCE MINOR LOCAL DOUBLE LOADED

Scale	1:75
Rev. Date	2024/SEP
Standard No.	01-16.02





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. 'SINGLE LOADED' AND 'DOUBLE LOADED' REFERS TO BUILDINGS FRONTING THE R.O.W. ON EITHER ONE OR BOTH SIDES; NOT TO SIDEWALK LOCATIONS.
3. SIDEWALK IS TO BE INSTALLED ON BOTH SIDES OF THE R.O.W. UNLESS OTHERWISE JUSTIFIED BY THE PEDESTRIAN ROUTING PLAN.
4. ELECTRICAL TRANSFORMERS ARE PERMITTED ON EITHER SIDE OF THE R.O.W.

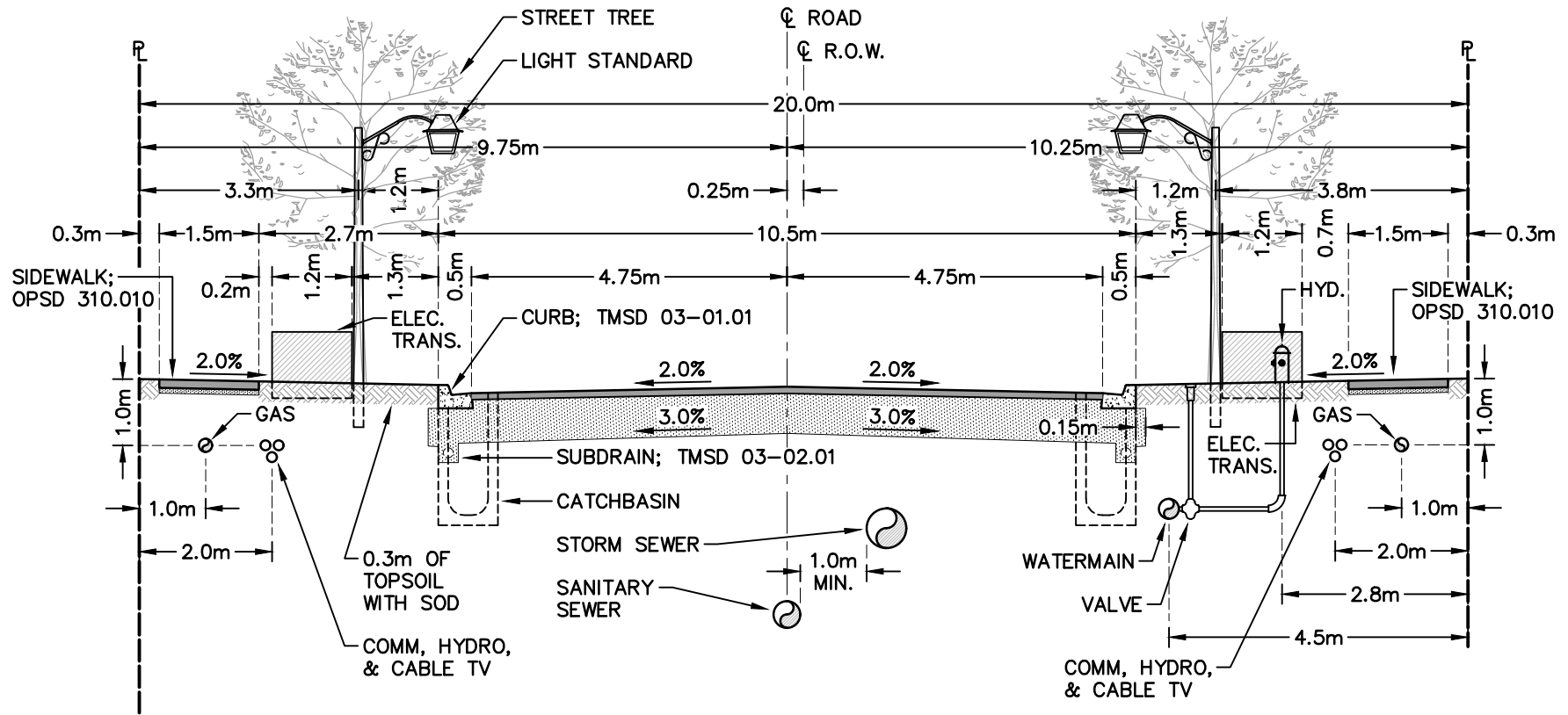
MINIMUM PAVEMENT STRUCTURE	
	← 40mm HL3 SURFACE
	← 100mm HL8 BINDER
	← 150mm 19mm LIMESTONE
	← 375mm GRAN. 'B' TYPE II
	665mm TOTAL

Title

18.0m ROAD ALLOWANCE LOCAL

Scale	1:75
Rev. Date	2024/SEP
Standard No.	01-18.01





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. SIDEWALK IS TO BE INSTALLED ON BOTH SIDES OF THE R.O.W. UNLESS OTHERWISE JUSTIFIED BY THE PEDESTRIAN ROUTING PLAN.
3. 'SINGLE LOADED' AND 'DOUBLE LOADED' REFERS TO BUILDINGS FRONTING THE R.O.W. ON EITHER ONE OR BOTH SIDES; NOT TO SIDEWALK LOCATIONS.

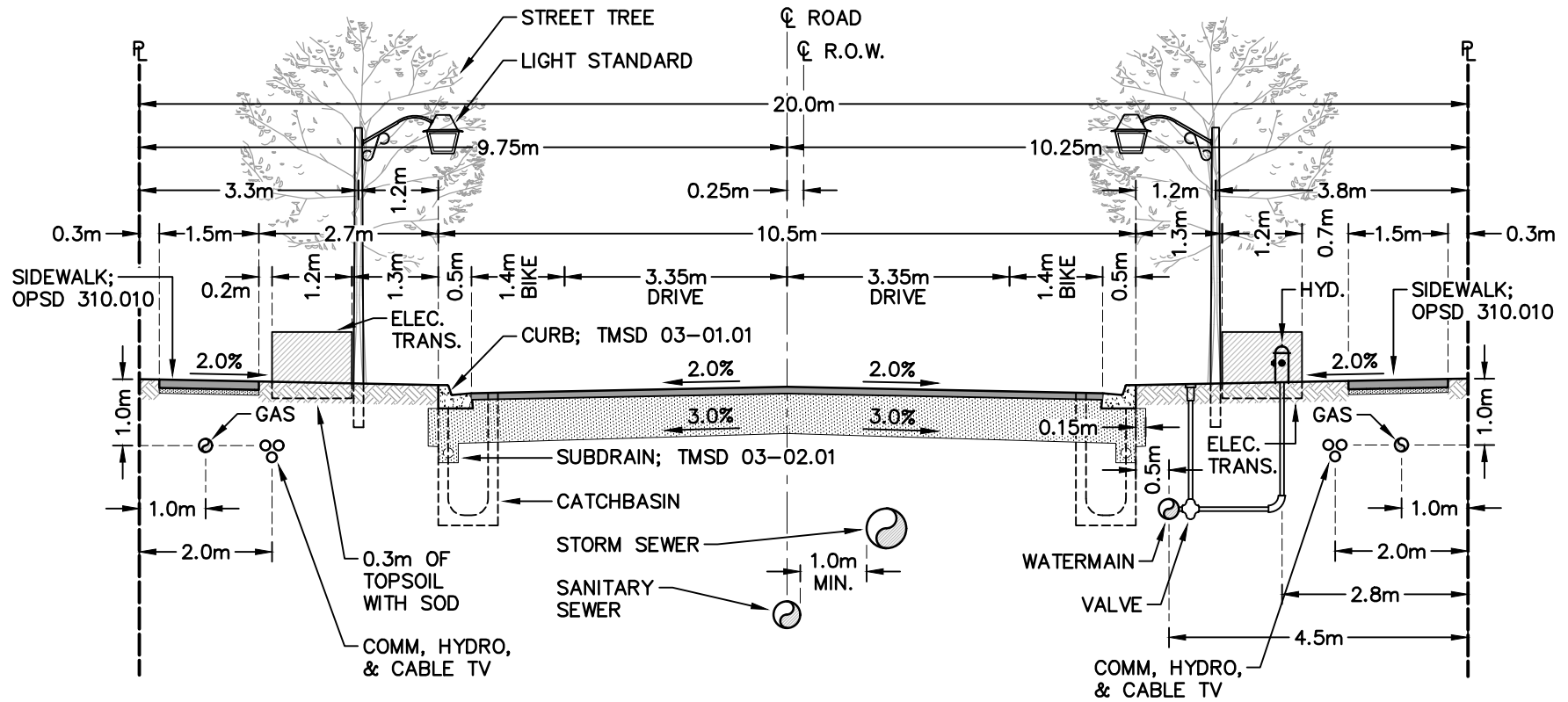
MINIMUM PAVEMENT STRUCTURE	
	40mm HL3 SURFACE
	100mm HL8 BINDER
	150mm 19mm LIMESTONE
	375mm GRAN. 'B' TYPE II
	665mm TOTAL

Title

20.0m ROAD ALLOWANCE LOCAL





Scale	1:100
Rev. Date	2024/SEP
Standard No.	01-20.01





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. SIDEWALK IS TO BE INSTALLED ON BOTH SIDES OF THE R.O.W. UNLESS OTHERWISE JUSTIFIED BY THE PEDESTRIAN ROUTING PLAN.
3. 'SINGLE LOADED' AND 'DOUBLE LOADED' REFERS TO BUILDINGS FRONTING THE R.O.W. ON EITHER ONE OR BOTH SIDES; NOT TO SIDEWALK LOCATIONS.
4. PAVEMENT MARKING DIFFERS FROM TMSD 01-20.01.

MINIMUM PAVEMENT STRUCTURE	
	← 40mm HL3 SURFACE
	← 80mm HL8 BINDER
	← 150mm 19mm LIMESTONE
	← 375mm GRAN. 'B' TYPE II
	645mm TOTAL

Title

20.0m ROAD ALLOWANCE LOCAL WITH BIKE LANES

Scale

1:100

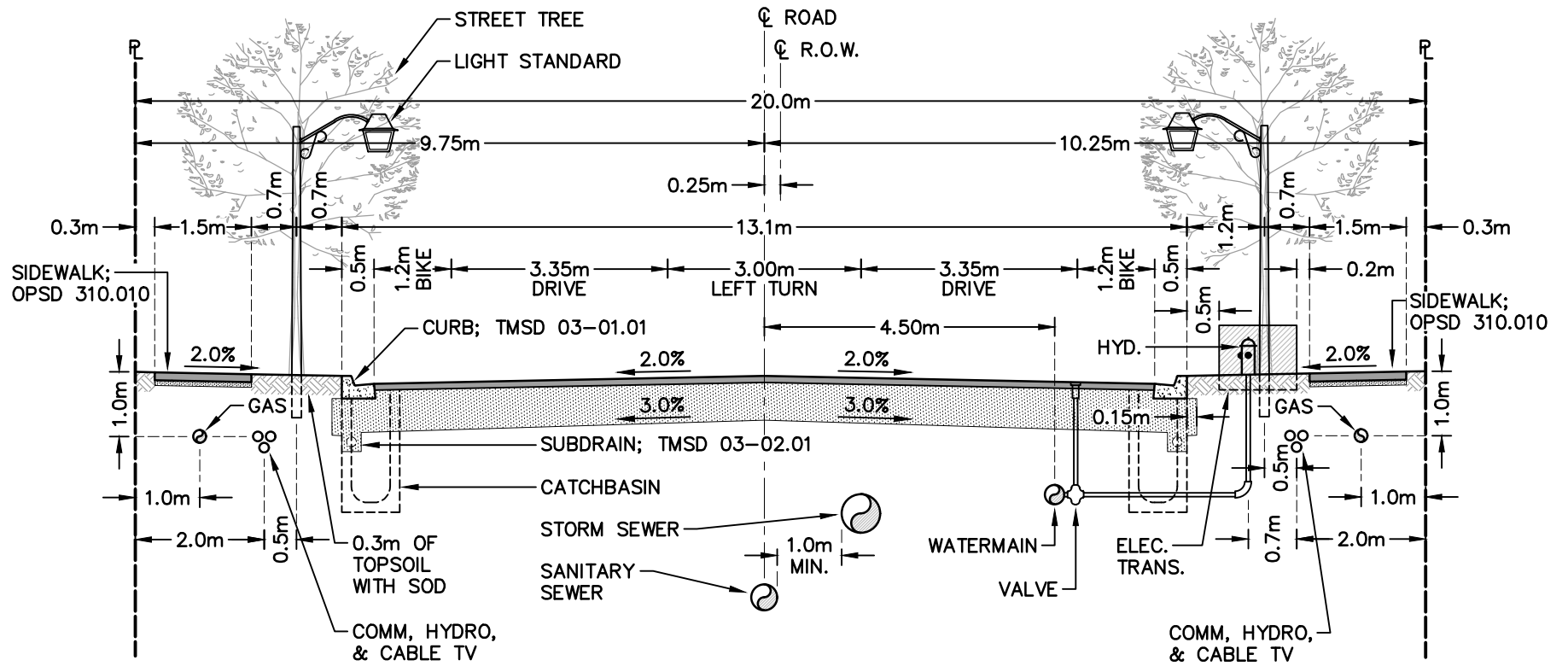
Rev. Date

2024/SEP

Standard No.

01-20.02





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. SIDEWALK IS TO BE INSTALLED ON BOTH SIDES OF THE R.O.W. UNLESS OTHERWISE JUSTIFIED BY THE PEDESTRIAN ROUTING PLAN.
3. 'SINGLE LOADED' AND 'DOUBLE LOADED' REFERS TO BUILDINGS FRONTING THE R.O.W. ON EITHER ONE OR BOTH SIDES; NOT TO SIDEWALK LOCATIONS.
4. PAVEMENT MARKING DIFFERS FROM TMSD 01-20.01.
5. ELECTRICAL TRANSFORMERS MAY ONLY BE INSTALLED ON ONE SIDE OF THE RIGHT-OF-WAY WHERE A LEFT TURN LANE (INCLUDING TAPER) IS PRESENT.

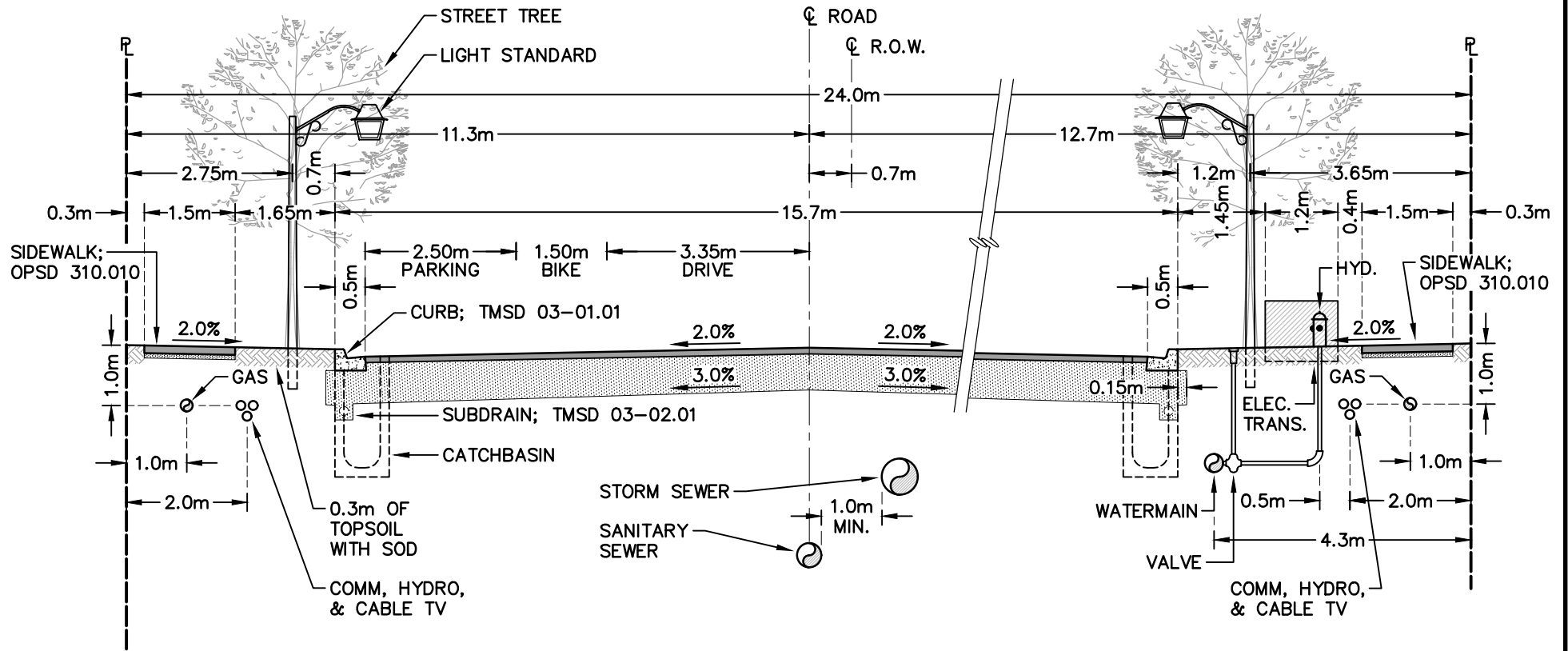
MINIMUM PAVEMENT STRUCTURE	
	← 40mm HL3 SURFACE
	← 80mm HL8 BINDER
	← 150mm 19mm LIMESTONE
	← 375mm GRAN. 'B' TYPE II
	645mm TOTAL

Title

20.0m ROAD ALLOWANCE LOCAL WITH BIKE LANES & LEFT TURN LANE

Scale	1:100
Rev. Date	2024/SEP
Standard No.	01-20.03





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. SIDEWALK IS TO BE INSTALLED ON BOTH SIDES OF THE R.O.W. UNLESS OTHERWISE JUSTIFIED BY THE PEDESTRIAN ROUTING PLAN.
3. PAVEMENT MARKINGS ON EITHER SIDES OF THE R.O.W. ARE MIRRORED ACROSS THE '☉ ROAD'.
4. 'SINGLE LOADED' AND 'DOUBLE LOADED' REFERS TO BUILDINGS FRONTING THE R.O.W. ON EITHER ONE OR BOTH SIDES; NOT TO SIDEWALK LOCATIONS.

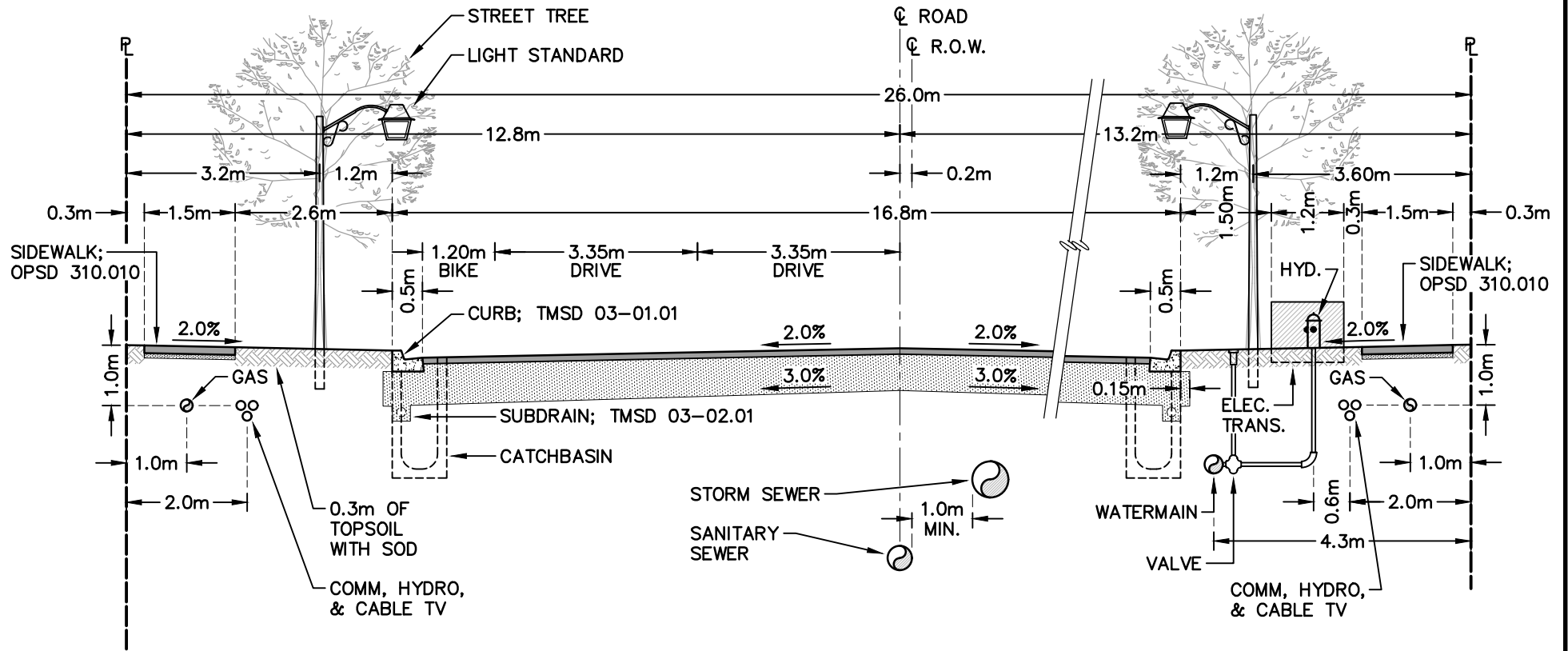
MINIMUM PAVEMENT STRUCTURE	
	← 40mm HL3 HS SURFACE
	← 100mm HL8 HS BINDER
	← 150mm 19mm LIMESTONE
	← 375mm GRAN. 'B' TYPE II
	665mm TOTAL

Title

24.0m ROAD ALLOWANCE MINOR COLLECTOR SINGLE OR DOUBLE LOADED

Scale	1:100
Rev. Date	2024/SEP
Standard No.	01-24.01





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. SIDEWALK IS TO BE INSTALLED ON BOTH SIDES OF THE R.O.W. UNLESS OTHERWISE JUSTIFIED BY THE PEDESTRIAN ROUTING PLAN.
3. PAVEMENT MARKINGS ON EITHER SIDES OF THE R.O.W. ARE MIRRORED ACROSS THE 'CL ROAD'.
4. WHERE APPLIED TO INDUSTRIAL SETTINGS, A 0.5m CONC. STRIP IS TO BE INSTALLED BEHIND THE CURB. (TYP. OF BOTH SIDES)

MINIMUM PAVEMENT STRUCTURE	
	40mm HL3 HS SURFACE
	100mm HL8 HS BINDER
	150mm 19mm LIMESTONE
	375mm GRAN. 'B' TYPE II
	665mm TOTAL

Title

26.0m ROAD ALLOWANCE MAJOR COLLECTOR

Scale

1:100

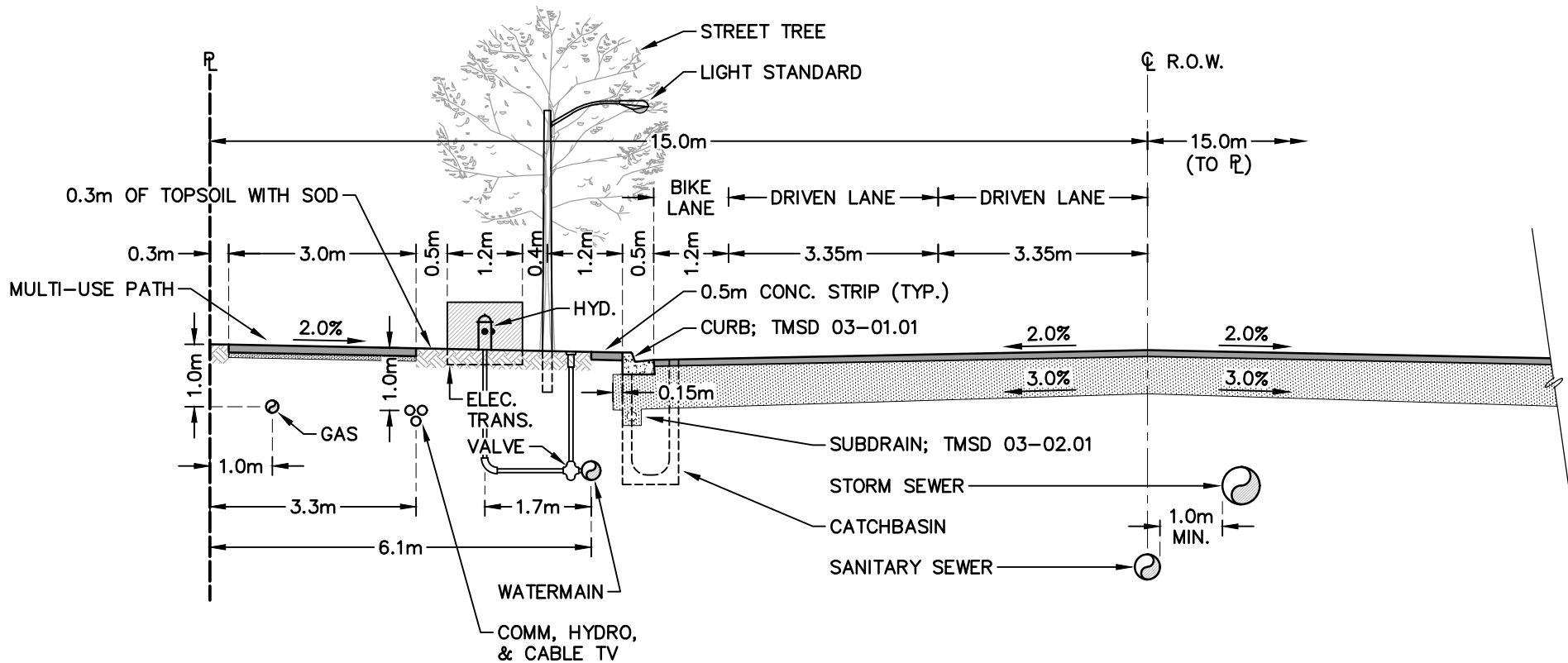
Rev. Date

2024/SEP

Standard No.

01-26.01





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. MULTI-USE PATHS ARE TO BE PLACED ON BOTH SIDES OF THE R.O.W.
3. BOTH SIDES OF THE R.O.W. ARE MIRRORED ACROSS THE 'C R.O.W.' UNLESS OTHERWISE SHOWN.

MINIMUM PAVEMENT STRUCTURE	
	50mm HL1 SURFACE
	100mm HL8 HIGH STABILITY
	150mm 19mm LIMESTONE
	550mm GRAN. 'B' TYPE II
	850mm TOTAL

Title

30.0m ROAD ALLOWANCE ARTERIAL

Scale

1:100

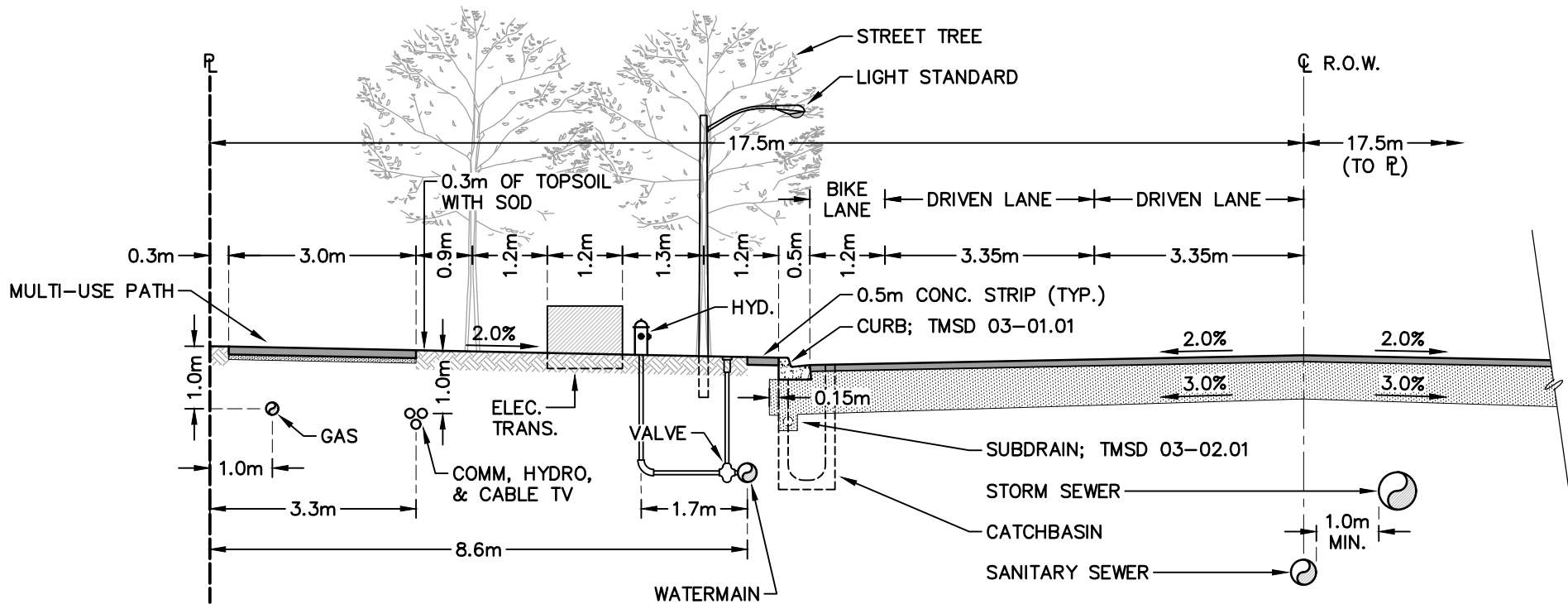
Rev. Date

2024/SEP

Standard No.

01-30.01





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. MULTI-USE PATHS ARE TO BE PLACED ON BOTH SIDES OF THE R.O.W.
3. BOTH SIDES OF THE R.O.W. ARE MIRRORED ACROSS THE 'C R.O.W.' UNLESS OTHERWISE SHOWN.

MINIMUM PAVEMENT STRUCTURE	
	50mm HL1 SURFACE
	100mm HL8 HIGH STABILITY
	150mm 19mm LIMESTONE
	550mm GRAN. 'B' TYPE II
	850mm TOTAL

Title

35.0m ROAD ALLOWANCE INDUSTRIAL ARTERIAL

Scale

1:100

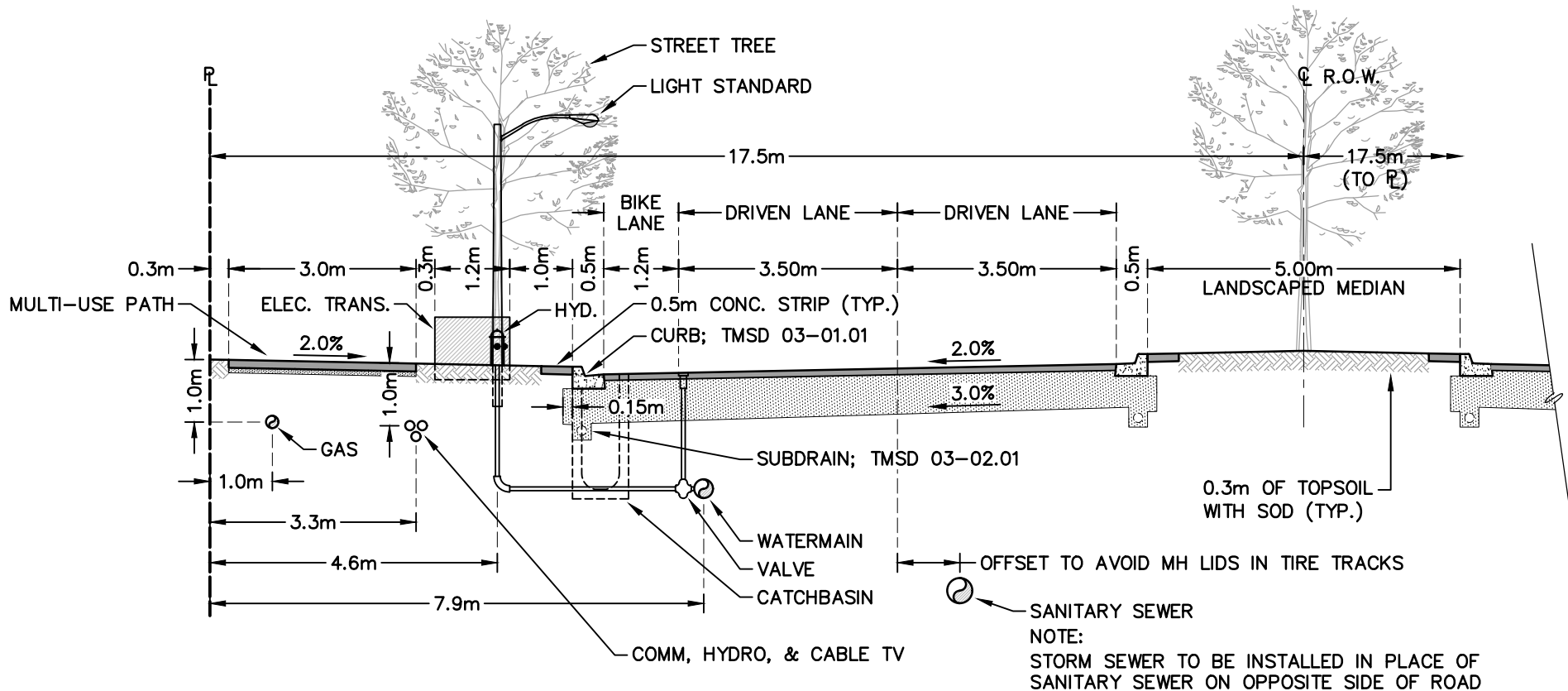
Rev. Date

2024/SEP

Standard No.

01-35.01





NOTES:

1. CABLE AND BELL PEDESTALS ARE TO BE ALIGNED WITH LIGHT STANDARDS.
2. MULTI-USE PATHS ARE TO BE PLACED ON BOTH SIDES OF THE R.O.W.
3. WHERE HYDRO TRANSMISSION LINES ARE REQ'D, POLE ARMS MAY BE MOUNTED TO HYDRO POLES. POLES ARE TO BE LOCATED 2.0m BEHIND BACK OF CURB (OR AS DIRECTED BY TOWN). TREES IN THE VICINITY OF HYDRO TRANSMISSION LINES SHALL HAVE A MAX. MATURE HEIGHT OF 6.0m.
4. BOTH SIDES OF THE R.O.W. ARE MIRRORED ACROSS THE 'C R.O.W.' UNLESS OTHERWISE SHOWN.

MINIMUM PAVEMENT STRUCTURE	
	50mm HL1 SURFACE
	100mm HL8 HIGH STABILITY
	150mm 19mm LIMESTONE
	550mm GRAN. 'B' TYPE II
	850mm TOTAL

Title

35.0m ROAD ALLOWANCE ARTERIAL (WITH CENTRE MEDIAN)

Scale

1:100

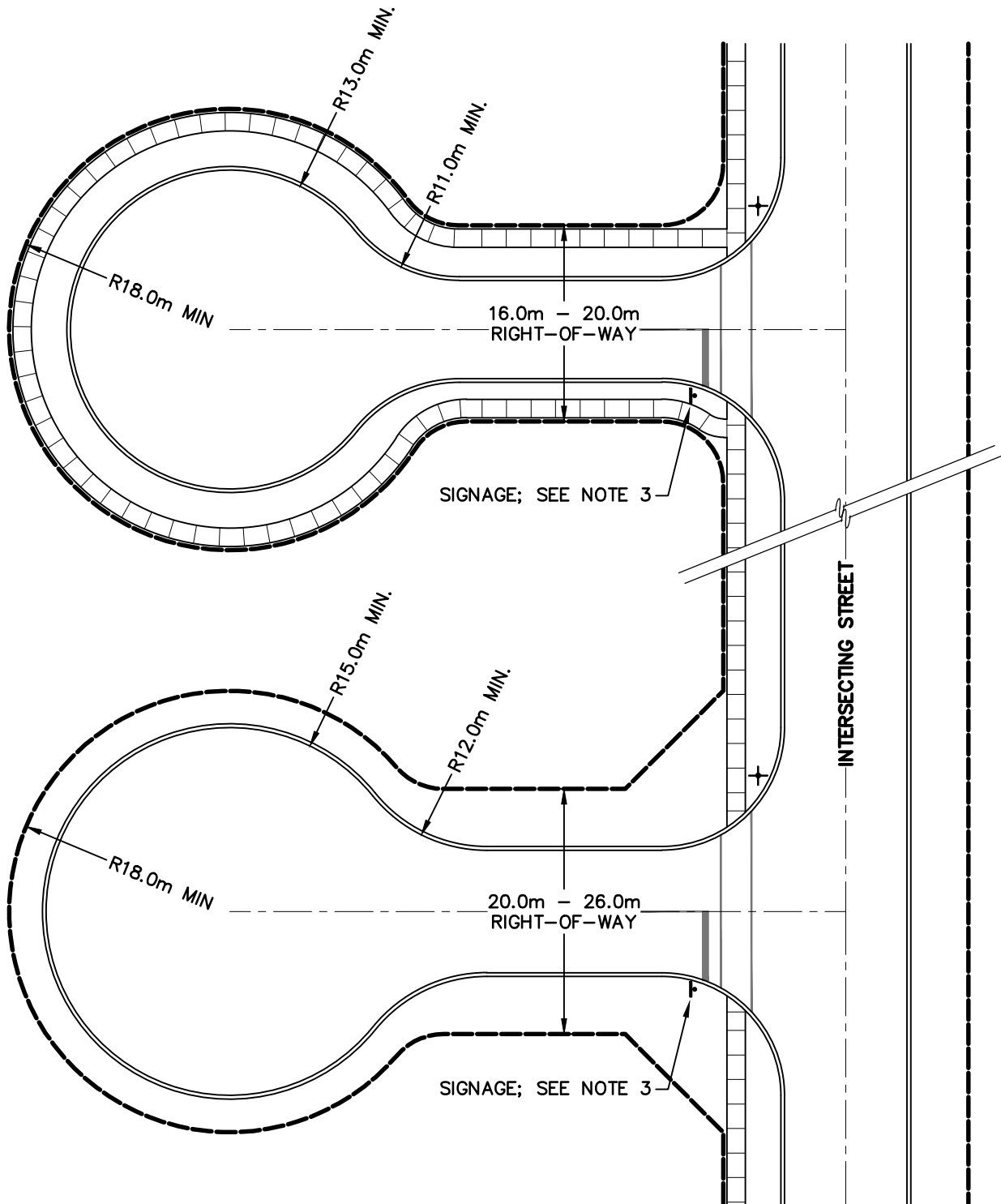
Rev. Date

2024/SEP

Standard No.

01-35.02





NOTES:

1. REQUIREMENT FOR SIDEWALK INSTALLATION AT CUL-DE-SAC WILL BE AT THE DISCRETION OF THE TOWN OF MILTON.
2. GUTTER SLOPES WITHIN A CUL-DE-SAC SHALL BE A MINIMUM OF 0.75%.
3. TRAFFIC CONTROL AND STREET NAME SIGNS ARE TO BE PLACED PER TMSD 15-01.01.
4. MAXIMUM LENGTH FROM INTERSECTING STREET TO CENTRE OF BULB IS 230m.
5. PAVEMENT WIDTHS SHALL BE PER TOWN OF MILTON STANDARD ROAD CROSS-SECTIONS.
6. TEMPORARY TURNING CIRCLES ARE TO COMPLY WITH WIDTHS ABOVE.

Title

URBAN CUL-DE-SAC

Scale

1:500

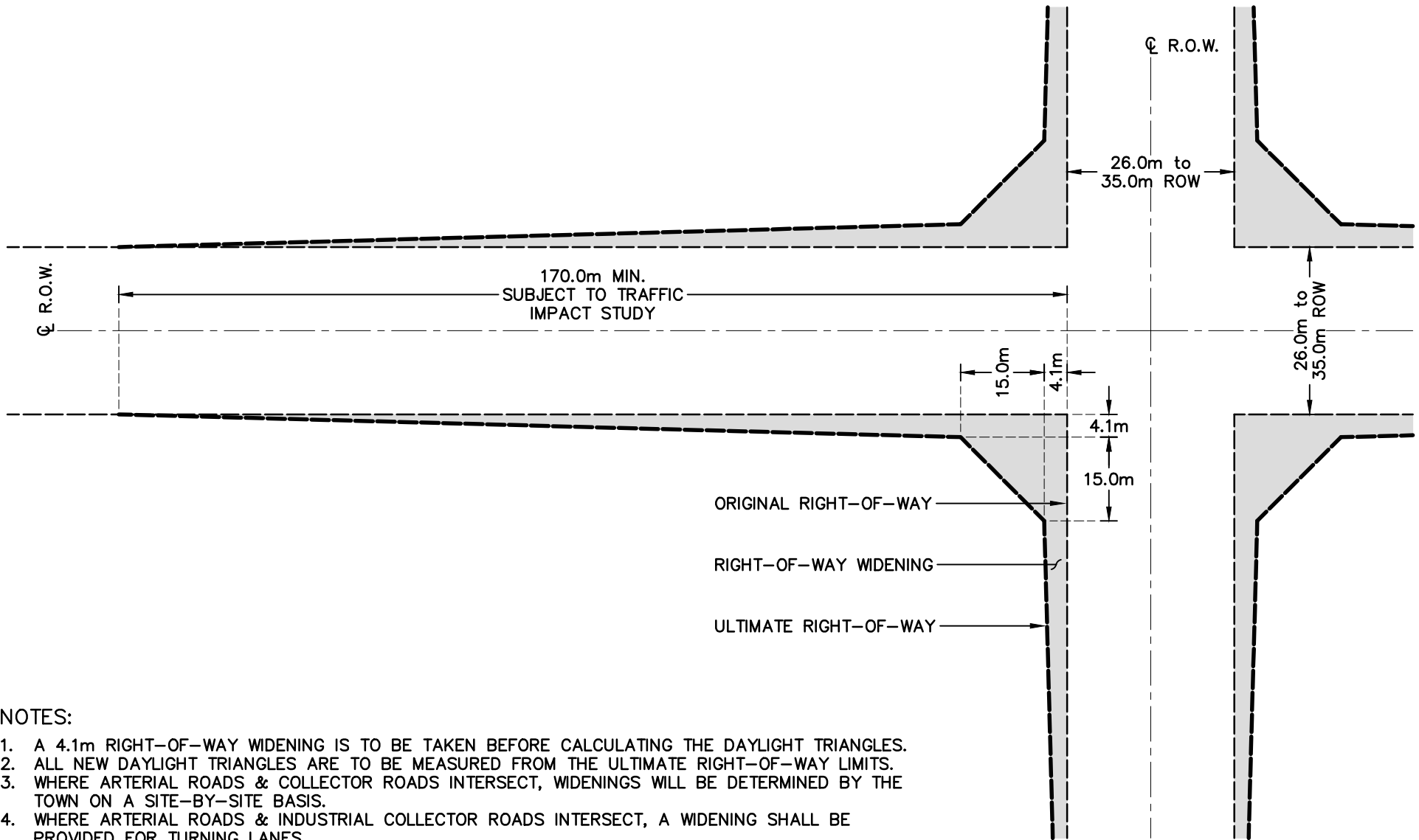
Rev. Date

2024/SEP

Standard No.

02-01.01





NOTES:

1. A 4.1m RIGHT-OF-WAY WIDENING IS TO BE TAKEN BEFORE CALCULATING THE DAYLIGHT TRIANGLES.
2. ALL NEW DAYLIGHT TRIANGLES ARE TO BE MEASURED FROM THE ULTIMATE RIGHT-OF-WAY LIMITS.
3. WHERE ARTERIAL ROADS & COLLECTOR ROADS INTERSECT, WIDENINGS WILL BE DETERMINED BY THE TOWN ON A SITE-BY-SITE BASIS.
4. WHERE ARTERIAL ROADS & INDUSTRIAL COLLECTOR ROADS INTERSECT, A WIDENING SHALL BE PROVIDED FOR TURNING LANES.

Title

RIGHT-OF-WAY WIDENING

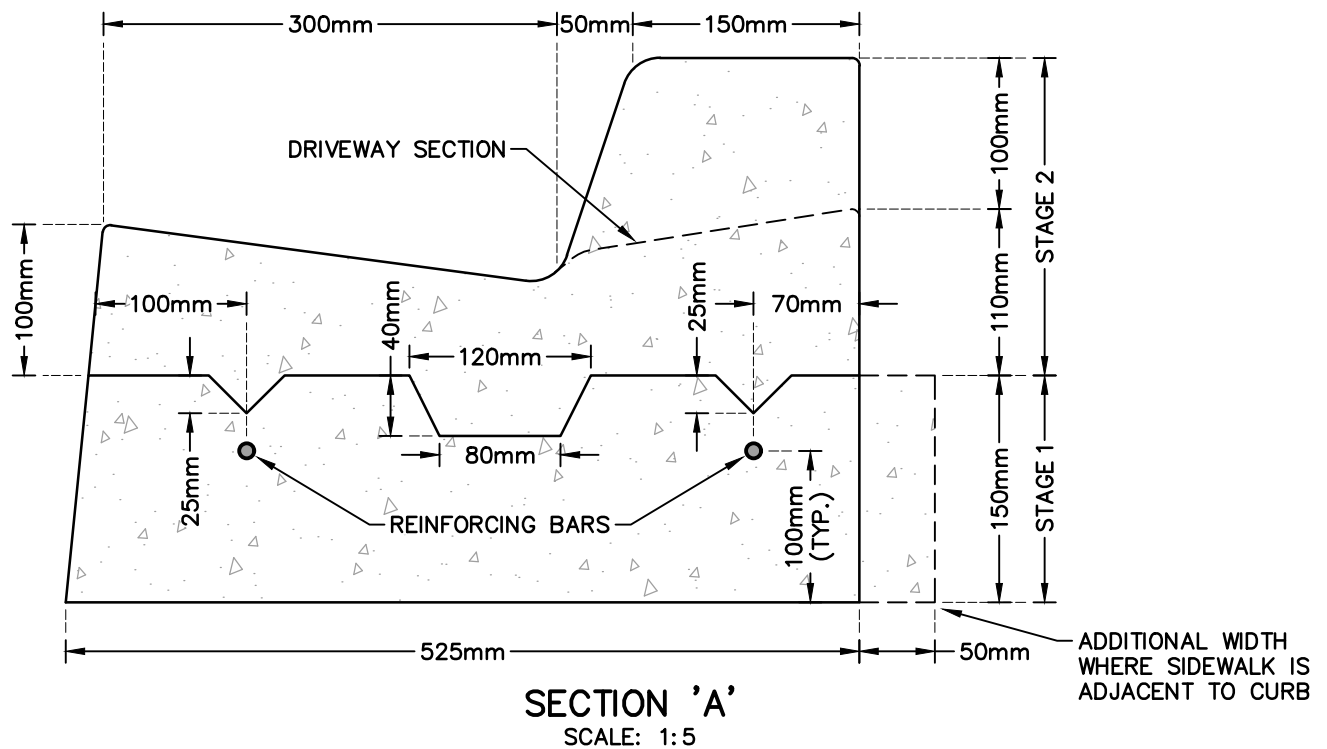
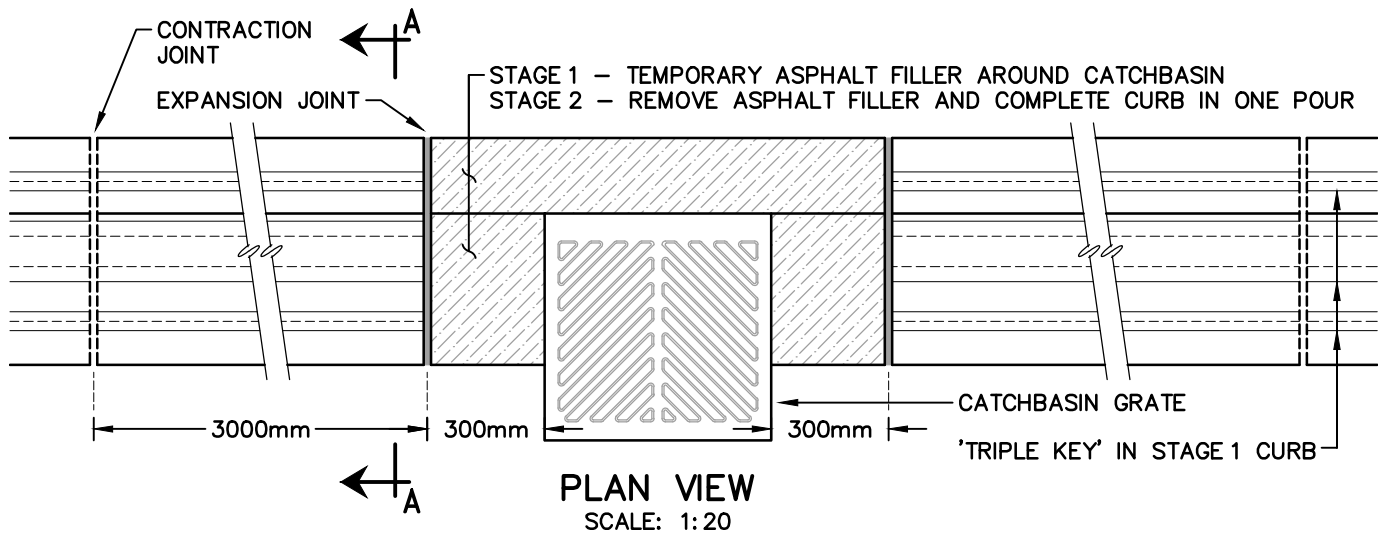
ARTERIAL (30.0m/35.0m) & COLLECTOR (26.0m) INTERSECTIONS

Scale **1:1000**

Rev. Date **2024/SEP**

Standard No. **02-02.01**





NOTES:

1. STAGE 1 CURB TO BE A CONTINUOUS POUR. CONTRACTION JOINTS ARE TO BE SAW-CUT EVERY 3.0m IN STAGE 2 ONLY.
2. CONCRETE: 32MPa COMPRESSIVE STRENGTH @ 28 DAYS WITH 7.0% (±1.5%) AIR ENTRAINMENT
 STAGE 1 - CEMENT RATIO SHALL BE 355kg/m
 STAGE 2 - CEMENT RATIO SHALL BE 325kg/m
3. CURING: STAGE 1 - WATER AND BURLAP ONLY (NO CURING COMPOUND)
 STAGE 2 - CURING COMPOUND
4. STAGE 1 IS TO BE THOROUGHLY CLEANED AND WET PRIOR TO STAGE 2 INSTALLATION.
5. REINFORCING BARS WITHIN STAGE 1 SHALL BE 15M WHERE CURB IS STRAIGHT AND 10M AROUND CURVES.
6. ALL REINFORCING IS TO HAVE 50mm COVER.
7. REFER TO OPSS SECTION 353.

Title

**CURB & GUTTER
2 STAGE**

Scale

AS NOTED

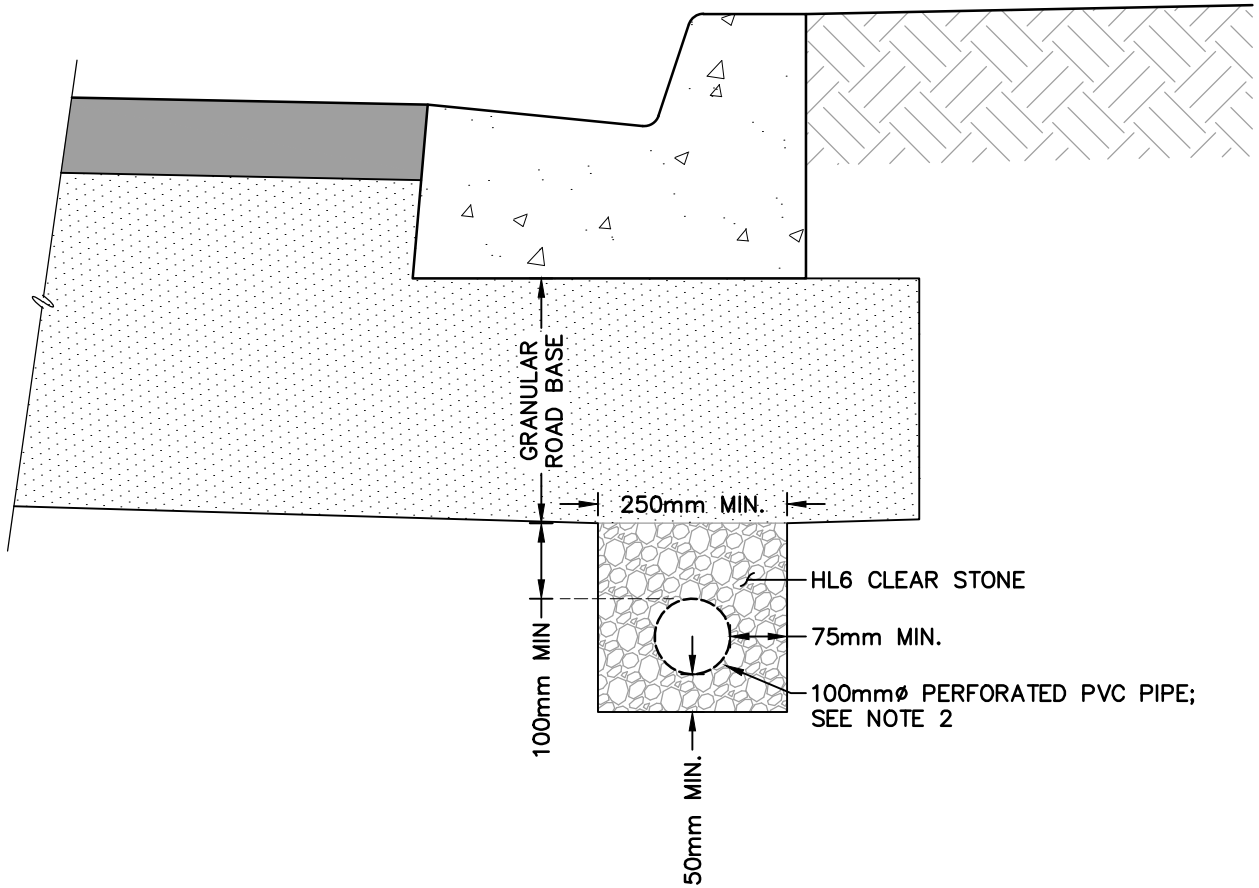
Rev. Date

2024/SEP

Standard No.

03-01.01





NOTES:

1. THIS DETAIL IS INTENDED FOR USE IN URBAN ROADS WHERE THE SUBDRAIN CAN OUTLET TO CATCHBASINS.
2. PERFORATED PVC SUBDRAIN TO BE WRAPPED IN GEOTEXTILE.

Title

SUBDRAIN FOR CURB/ROADS

Scale

1: 40

Rev. Date

2024/SEP

Standard No.

03-02.01



CURB RADIUS TO BE ADJUSTED AS REQ'D

1.0m ASPHALT WIDENING;
SEE NOTE 1

PAVEMENT WIDTH
(PER TMSD)

NOTE:

1. ASPHALT WIDENING SHOWN IS REQUIRED ON LOCAL ROADS WHERE THE CENTERLINE BENDS AT APPROXIMATELY 90°.

Title

ASPHALT WIDENING FOR 90° BENDS

Scale

1:150

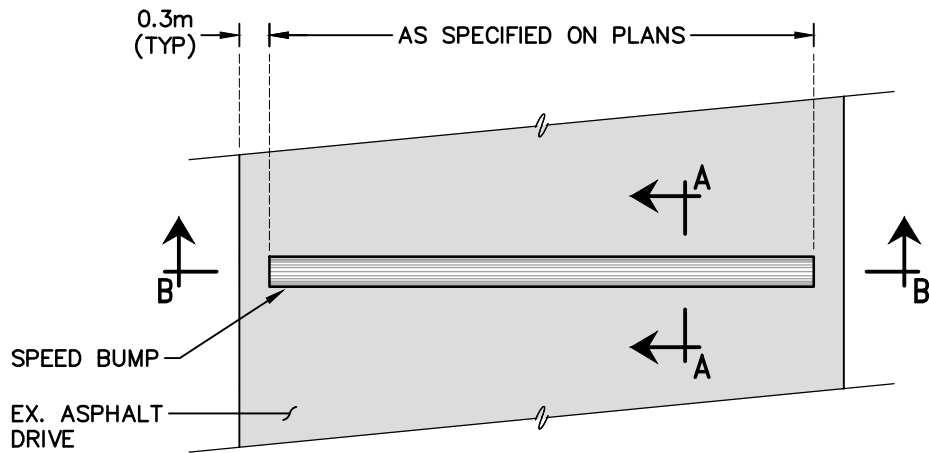
Rev. Date

2024/SEP

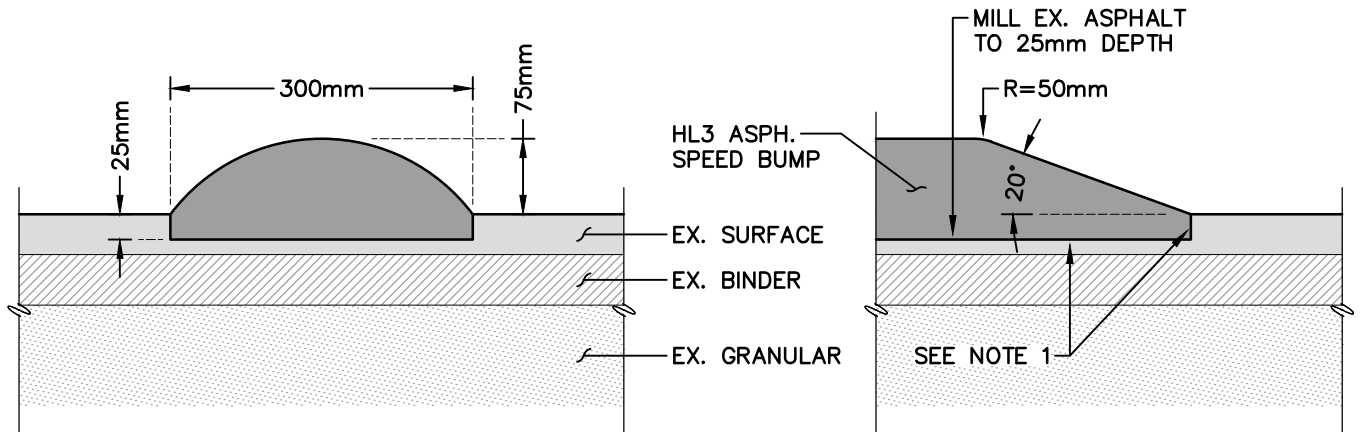
Standard No.

03-03.01





PLAN VIEW
SCALE: 1:75



SECTION 'A'
SCALE: 1:7.5

SECTION 'B'
SCALE: 1:7.5

NOTES:

1. TACK COAT SHALL BE APPLIED TO MILLED SURFACE AND ALL VERTICAL SURFACES.
2. SPEED BUMPS ARE TO BE INSTALLED SO AS NOT TO IMPEDE DRAINAGE PATTERNS.
3. SPEED BUMPS ARE TO BE PAINTED YELLOW, AND BE SIGNED AS SPECIFIED.

Title

SPEED BUMP

Scale

AS NOTED

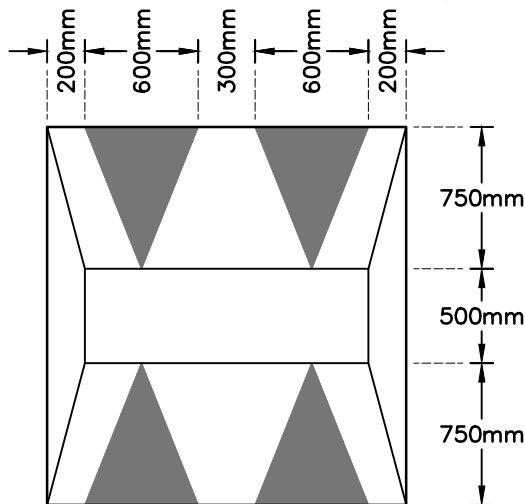
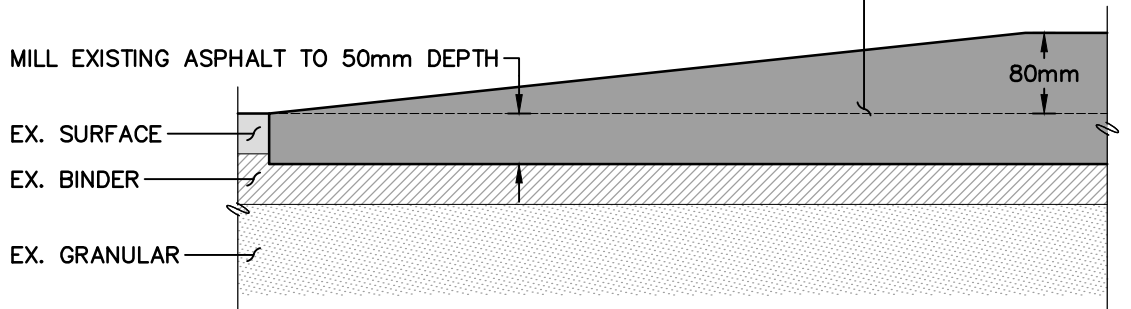
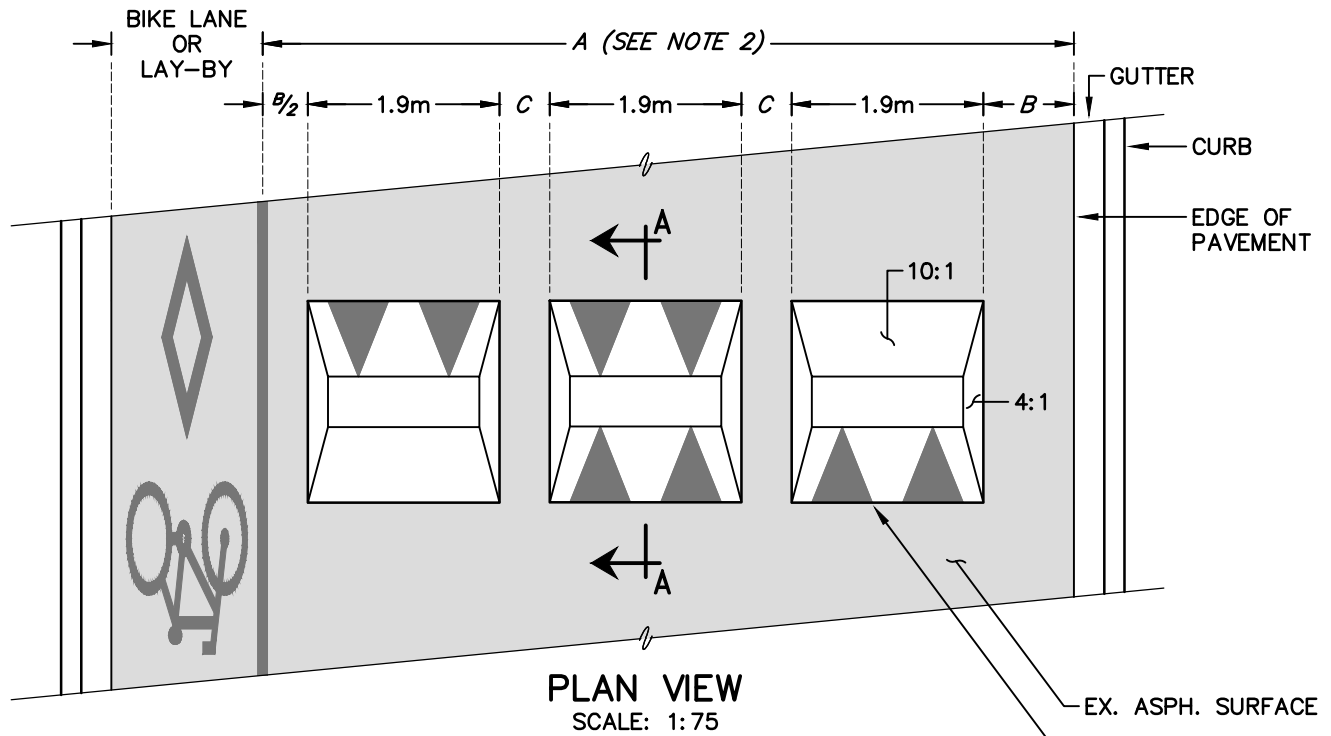
Rev. Date

2024/SEP

Standard No.

03-04.01





NOTES:

1. A SPEED HUMP WARNING SIGN (W_a-74) SHALL BE INSTALLED ON EITHER APPROACH. EXACT LOCATION TO BE DETERMINED IN FIELD WITH TOWN STAFF.
2. THE VALUE OF *A* (ROAD WIDTH) IS MEASURED FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT, EXCLUSIVE OF BIKE LANES AND PARKING LAY-BYS.

	<i>B</i>	<i>C</i>
WHERE <i>A</i> = 8.0m ⁽¹⁾	750mm	400mm
WHERE <i>A</i> = 9.0m ⁽¹⁾	1100mm	550mm

TABLE NOTES:

1. WHERE *A* IS OTHER THAN THE LISTED DIMENSIONS, AND/OR WHERE BIKE LANES OR PARKING LAY-BYS ARE PRESENT, THE VALUE FOR *B* MUST BE ADJUSTED TO SUIT.

Title

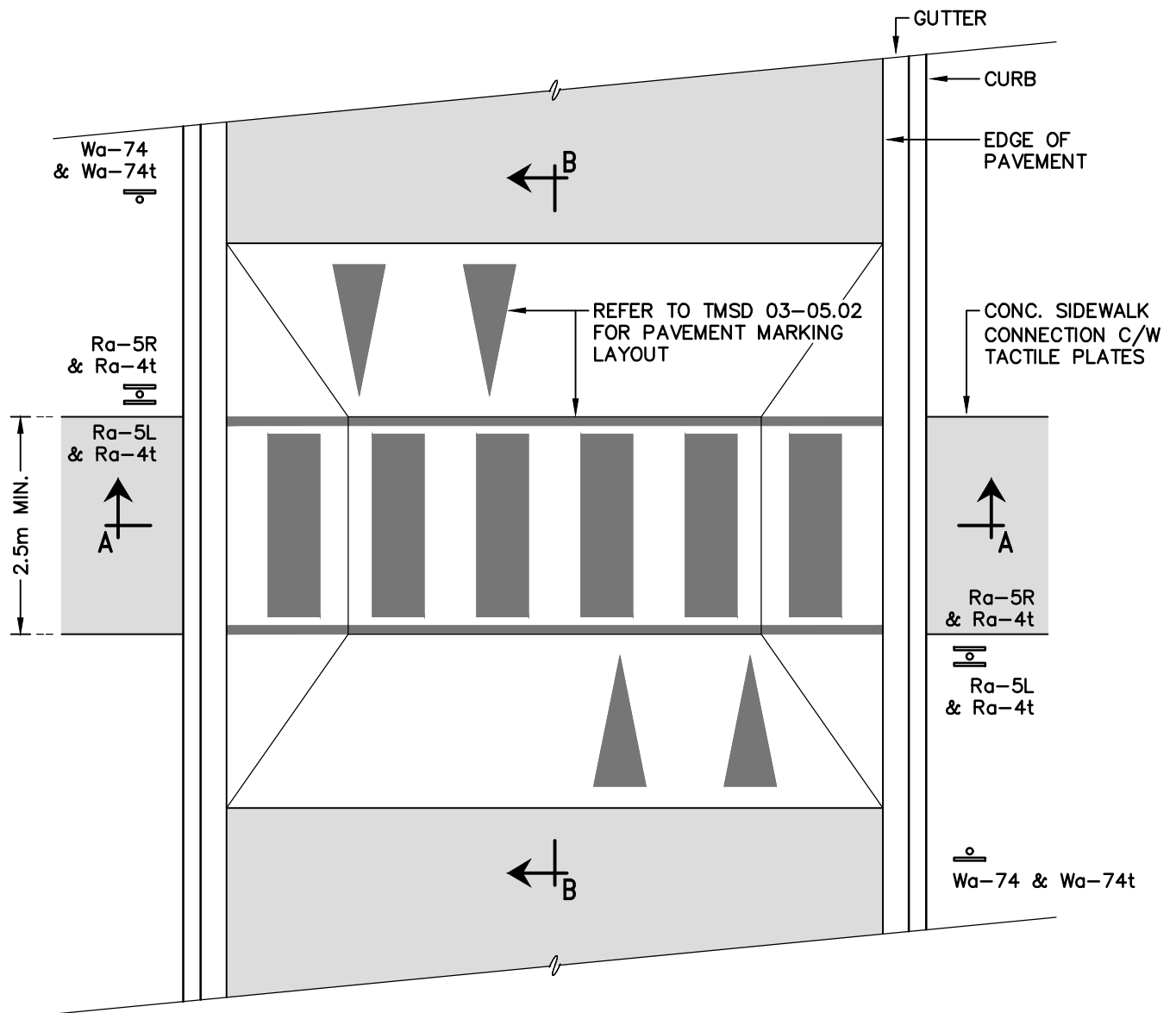
SPEED CUSHIONS

Scale
AS NOTED

Rev. Date
2024/SEP

Standard No.
03-04.02





PLAN VIEW
SCALE: 1:75

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TMSD 03-05.02.
2. A SPEED HUMP WARNING SIGN (Wa-74) SHALL BE INSTALLED ON EITHER APPROACH.
3. PEDESTRIAN CROSSING SIGNS (Ra-5R, Ra-5L & Ra-4T) SHALL BE INSTALLED ON EITHER APPROACH. EXACT LOCATION OF SIGNAGE TO BE DETERMINED IN FIELD WITH TOWN STAFF.
4. CATCHBASINS ARE REQUIRED ON THE UPSTREAM SIDE OF THE RAISED CROSSWALK.

Title

**CUSHIONED CROSSWALK
PLAN**

Scale

AS NOTED

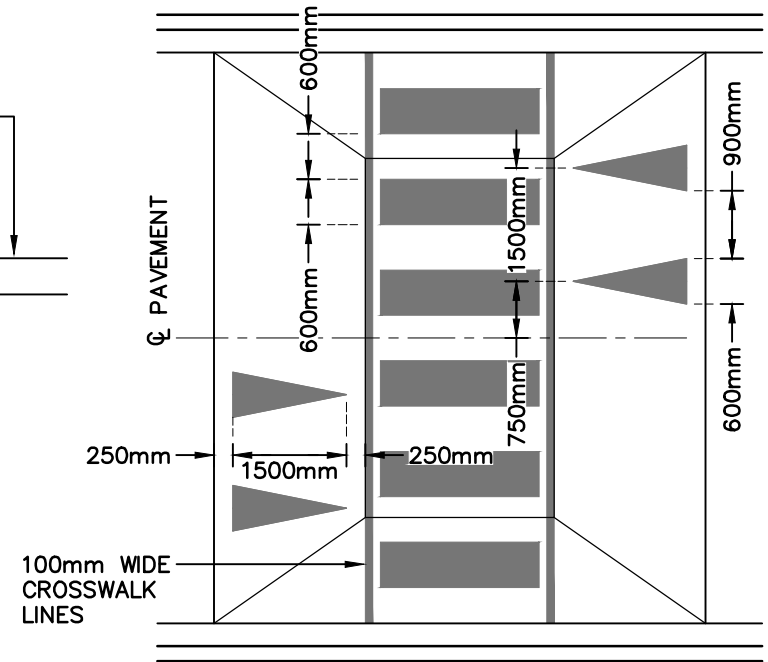
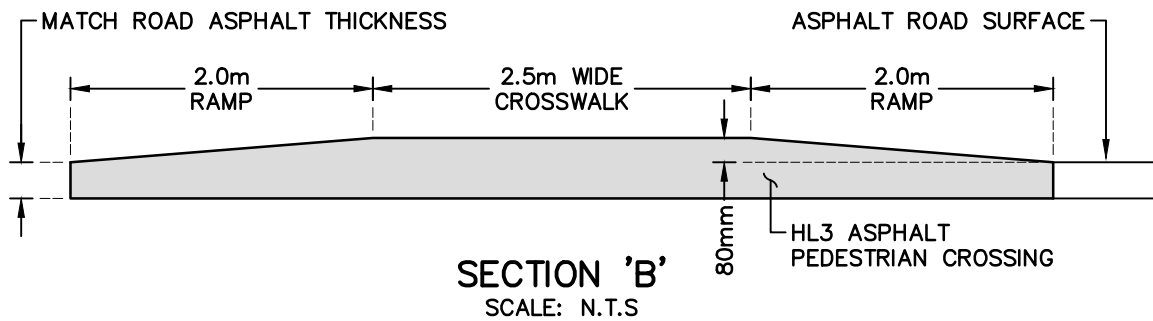
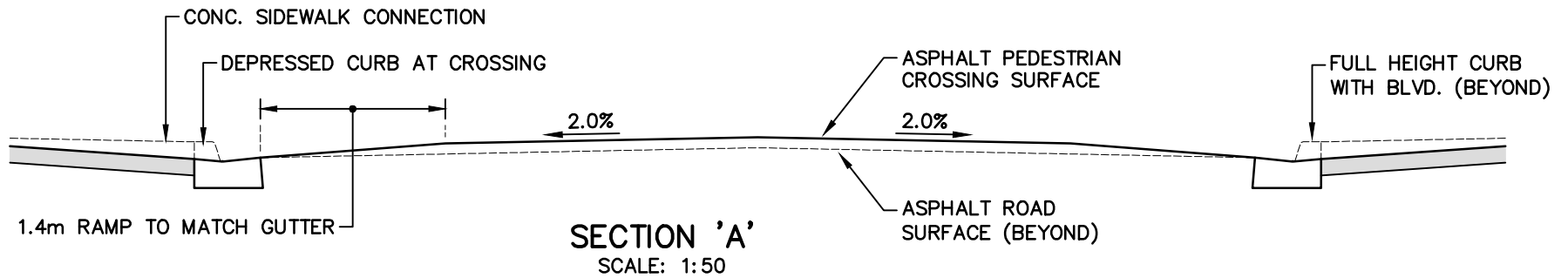
Rev. Date

2024/SEP

Standard No.

03-05.01





NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TMSD 03-05.01.
2. ASPHALT RAMPS ON ALL SIDES OF THE CROSSWALK TO HAVE SINUSOIDAL PROFILES.
3. PAVEMENT MARKINGS TO BE THERMOPLASTIC. REFER TO SECTION 1.2.8.1 OF THE ENGINEERING AND PARKS STANDARDS MANUAL.

Title

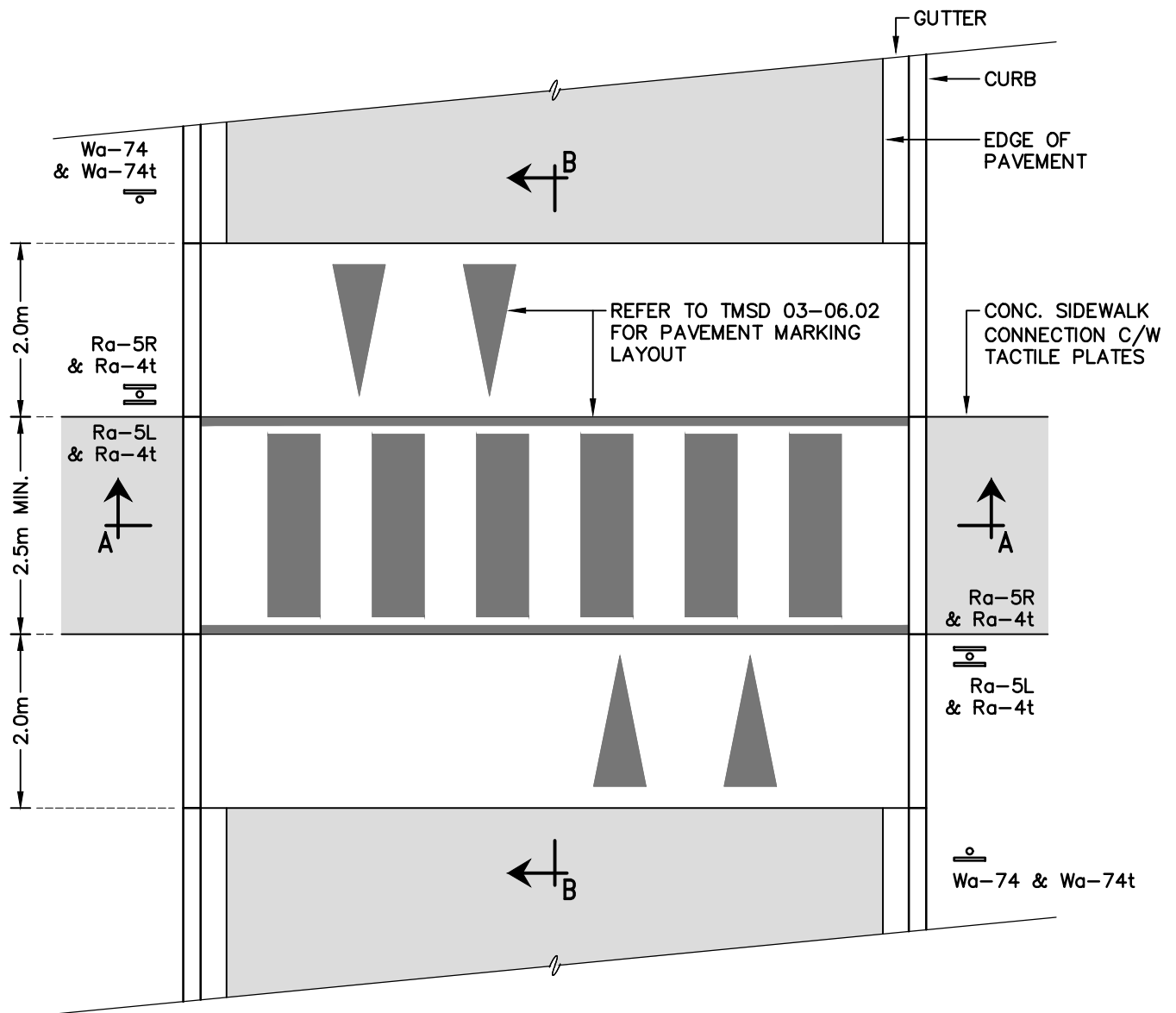
CUSHIONED CROSSWALK DETAILS

Scale **AS NOTED**

Rev. Date **2024/SEP**

Standard No. **03-05.02**





PLAN VIEW
SCALE: 1:75

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TMSD 03-06.02.
2. A SPEED HUMP WARNING SIGN (Wa-74) SHALL BE INSTALLED ON EITHER APPROACH.
3. PEDESTRIAN CROSSING SIGNS (Ra-5R, Ra-5L & Ra-4T) SHALL BE INSTALLED ON EITHER APPROACH. EXACT LOCATION OF SIGNAGE TO BE DETERMINED IN FIELD WITH TOWN STAFF.
4. CATCHBASINS ARE REQUIRED ON THE UPSTREAM SIDE OF THE RAISED CROSSWALK.

Title

**RAISED CROSSWALK
PLAN**

Scale

AS NOTED

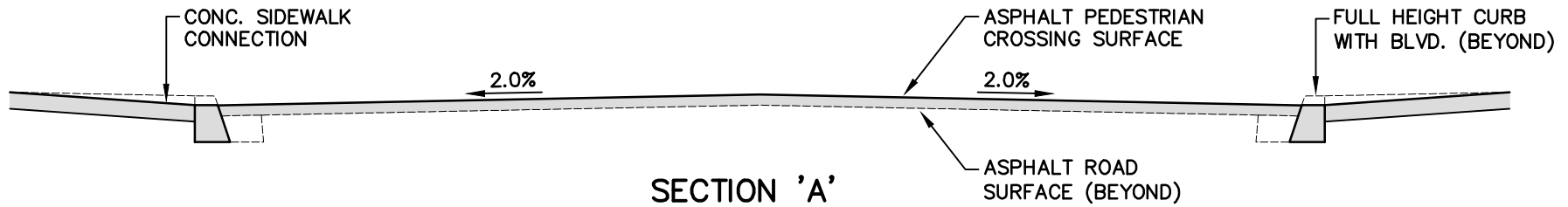
Rev. Date

2024/SEP

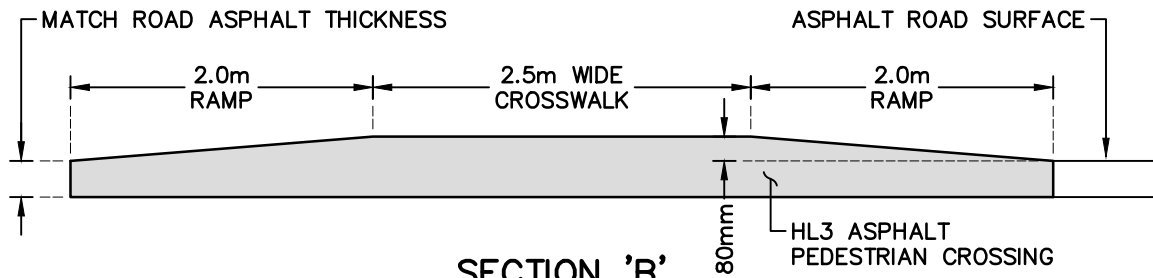
Standard No.

03-06.01

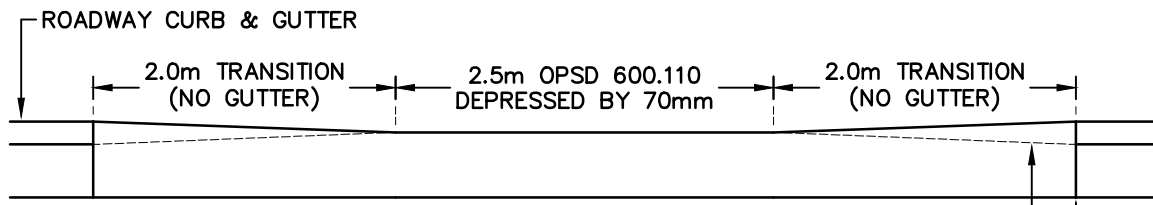




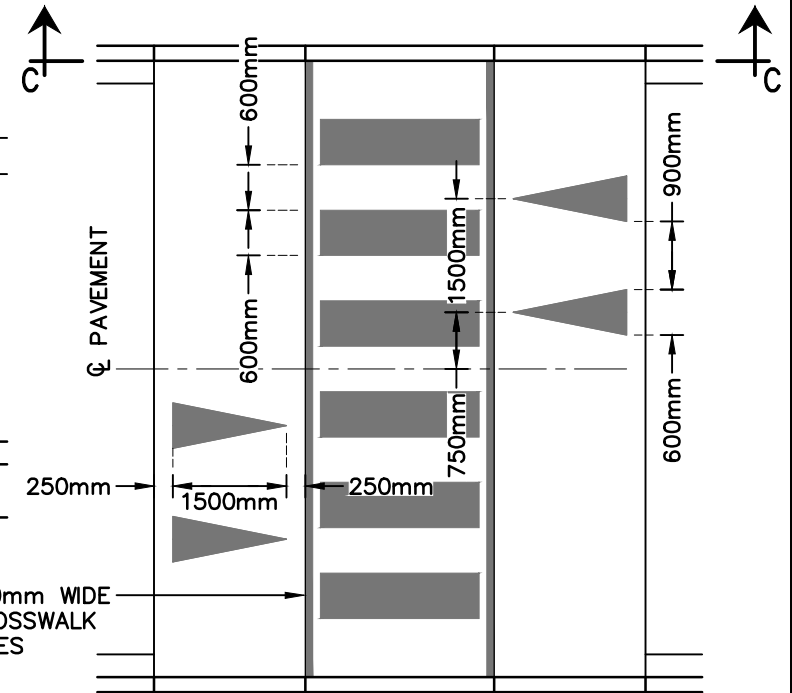
SECTION 'A'
SCALE: 1:50



SECTION 'B'
SCALE: N.T.S



SECTION 'C'
SCALE: N.T.S



PAVEMENT MARKINGS
SCALE: 1:100

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TMSD 03-06.01.
2. ASPHALT RAMPS ON EITHER SIDE OF THE CROSSWALK TO HAVE SINUSOIDAL PROFILES.
3. PAVEMENT MARKINGS TO BE THERMOPLASTIC. REFER TO SECTION 1.2.8.1 OF THE ENGINEERING AND PARKS STANDARDS MANUAL.

Title

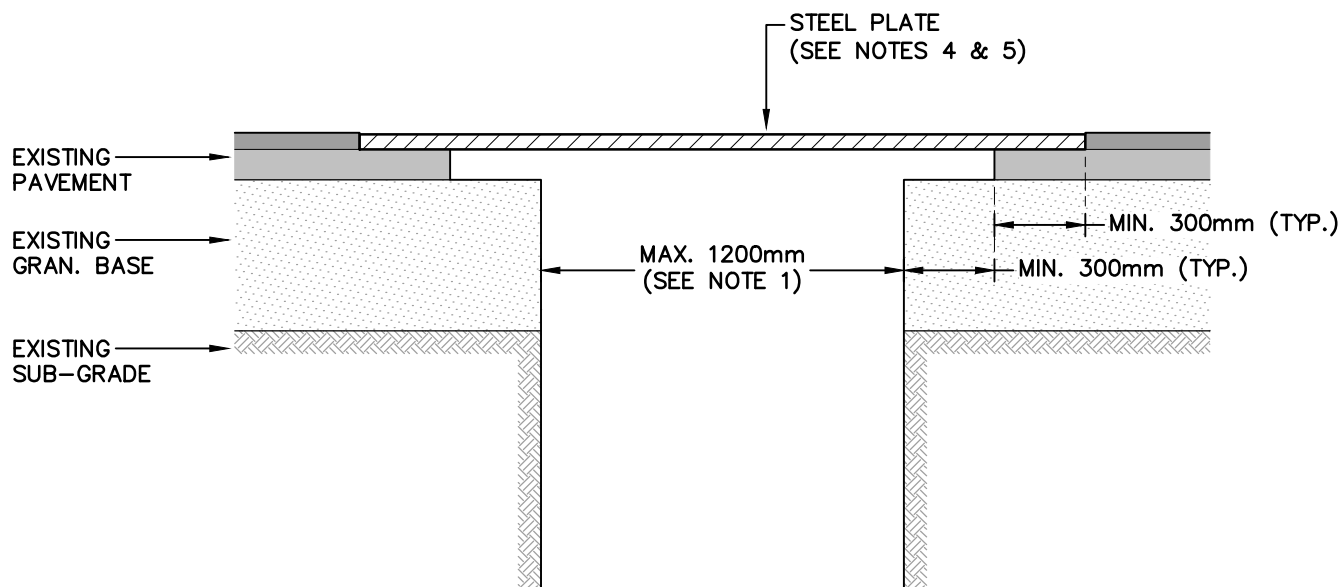
**RAISED CROSSWALK
DETAILS**

Scale
AS NOTED

Rev. Date
2024/SEP

Standard No.
03-06.02





NOTE:

1. PLATING SHALL NOT BE USED ON TRENCHES OR PITS IN EXCESS OF 1.2m WIDE.
2. TRENCHES AND PITS SHALL BE UNIFORMLY SUPPORTED FROM TOP TO BOTTOM, OR BACKFILLED.
3. A MINIMUM OF 300mm OF PAVEMENT SURROUNDING THE TRENCH OR PIT SHALL BE COLD MILLED TO A DEPTH OF 30mm.
4. PLATES SHALL BE 25mm THICK WITH A MINIMUM YIELD STRENGTH OF 248 211 KPa (36 000 psi).
5. PLATES SHALL BE INSTALLED FLUSH TO GRADE.
6. TRENCH SUPPORT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT.

Title

**TEMPORARY PLATING FOR
TRENCHES AND PITS**

Scale

1:25

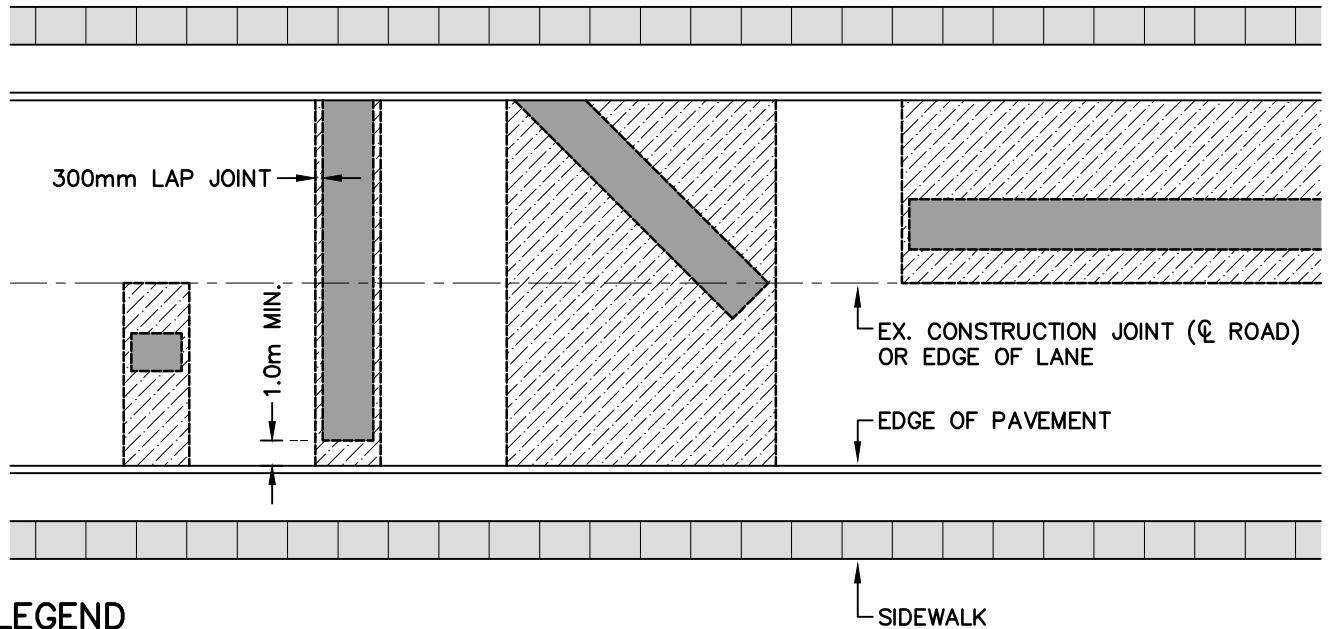
Rev. Date

2024/SEP

Standard No.

03-07.01





LEGEND

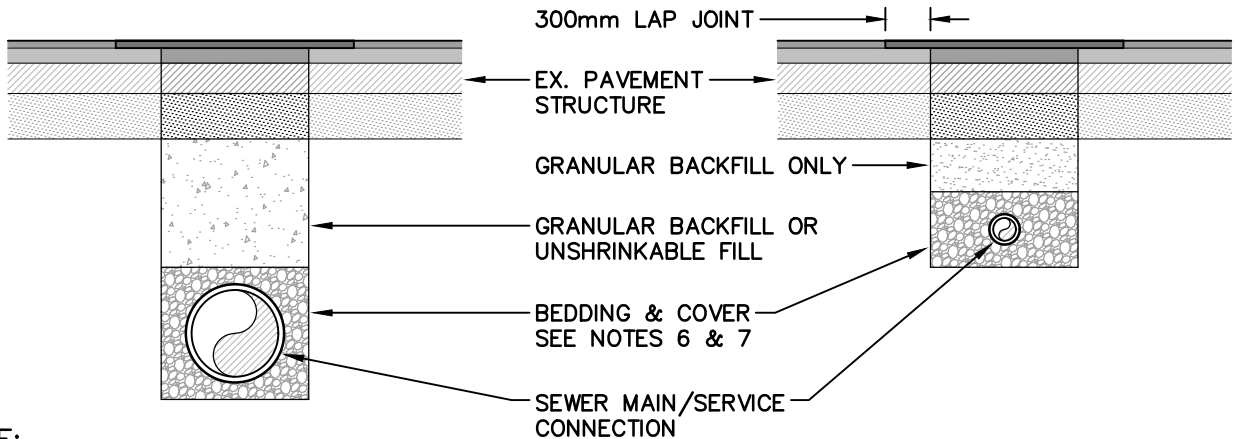
- TRENCH LIMITS
- EXTENTS OF RESTORATION

PLAN VIEW

SCALE: 1:300

**TYPICAL TRENCH
(1.5m DEPTH OR MORE)**
SCALE: 1:50

**TYPICAL TRENCH
(LESS THAN 1.5m DEPTH)**
SCALE: 1:50



NOTE:

1. DIAGONAL JOINTS ARE NOT PERMITTED.
2. FULL WIDTH OF DISTURBED LANE TO BE RESURFACED (MATCH TO EXISTING CONSTRUCTION JOINT WHERE APPLICABLE).
3. ROAD CUTS LESS THAN 1.0m FROM EDGE OF PAVEMENT SHALL BE EXTENDED TO REMOVE FULL DEPTH OF ASPHALT TO THE EDGE OF PAVEMENT.
4. BONDING AGENT (SS1 EMULSION) SHALL BE APPLIED TO ALL COLD ASPHALT JOINTS AND CONCRETE FACES PER OPSS 1103.
5. ROUT & SEAL IS REQUIRED ON ALL ASPHALT JOINTS PER OPSS 341.
6. BEDDING MATERIAL TO BE 19mm CRUSHER RUN LIMESTONE, COMPACTED TO 98% SPDD, OR HL6 CLEAR STONE. COVER MATERIAL TO BE SAND.
7. FOR SANITARY SEWERS AND WATERMAINS, BEDDING AND COVER SHALL BE PER REGION STANDARDS.

Title

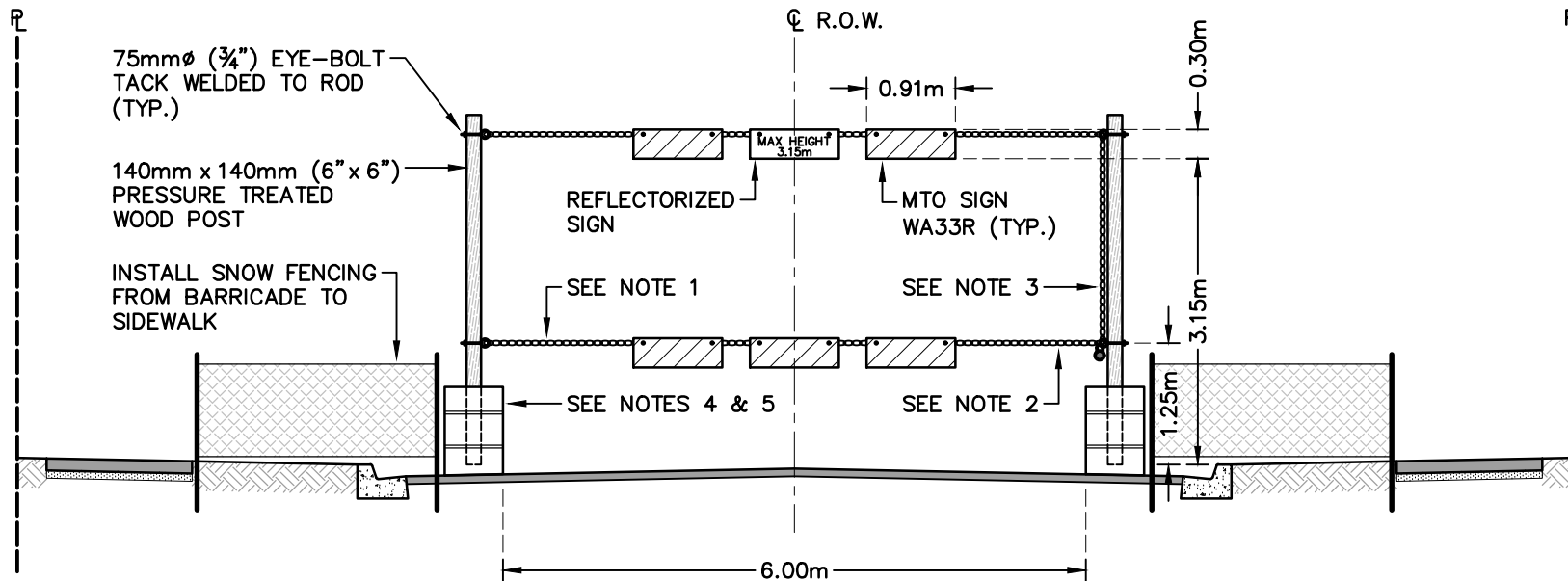
TRENCH RESTORATION

Scale
AS NOTED

Rev. Date
2024/SEP

Standard No.
03-07.02





NOTE:

1. GALVANIZED STEEL CHAIN WITH 6mm ϕ (1/4") LINKS. (TYP.)
2. OPTION 1: LOWER CHAIN INSTALLED TO RESTRICT PUBLIC ACCESS. CHAIN TO BE FASTENED TO EYE-BOLT WITH PAD-LOCK TO ALLOW FOR TOWN/CONTRACTOR ACCESS.
3. OPTION 2: UPPER CHAIN INSTALLED TO RESTRICT CONSTRUCTION VEHICLE ACCESS. CHAIN SHALL BE CONTINUOUS THRU UPPER EYE-BOLT AND FASTENED TO LOWER EYE-BOLT WITH PAD-LOCK.
4. STANDARD 170L (45gal) DRUM/BARREL FILLED WITH 20MPa CONCRETE FINISHED FLUSH WITH RIM.
5. DRUM/BARREL TO BE PAINTED WITH YELLOW REFLECTIVE PAINT.

Title

CONSTRUCTION ACCESS BARRIER

Scale

1:75

Rev. Date

2024/SEP

Standard No.

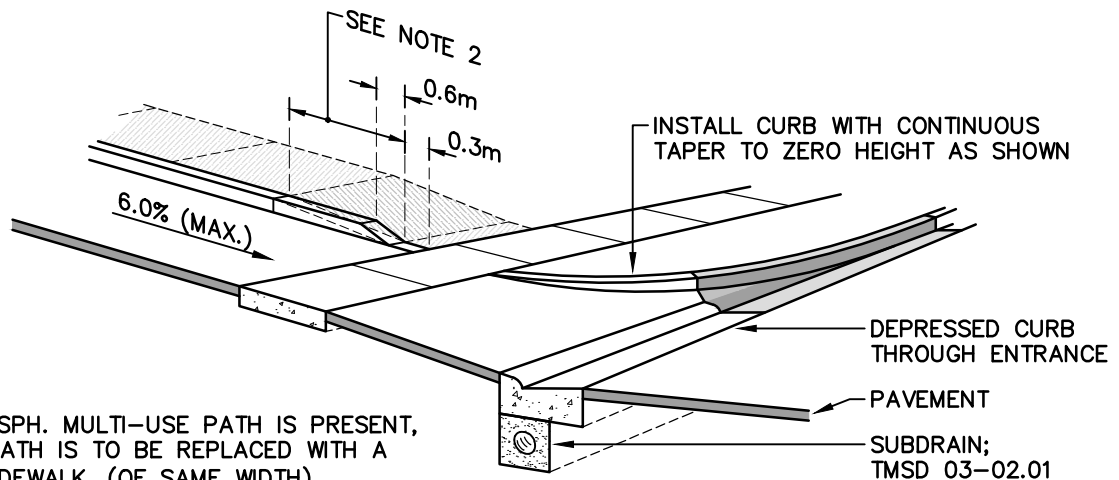
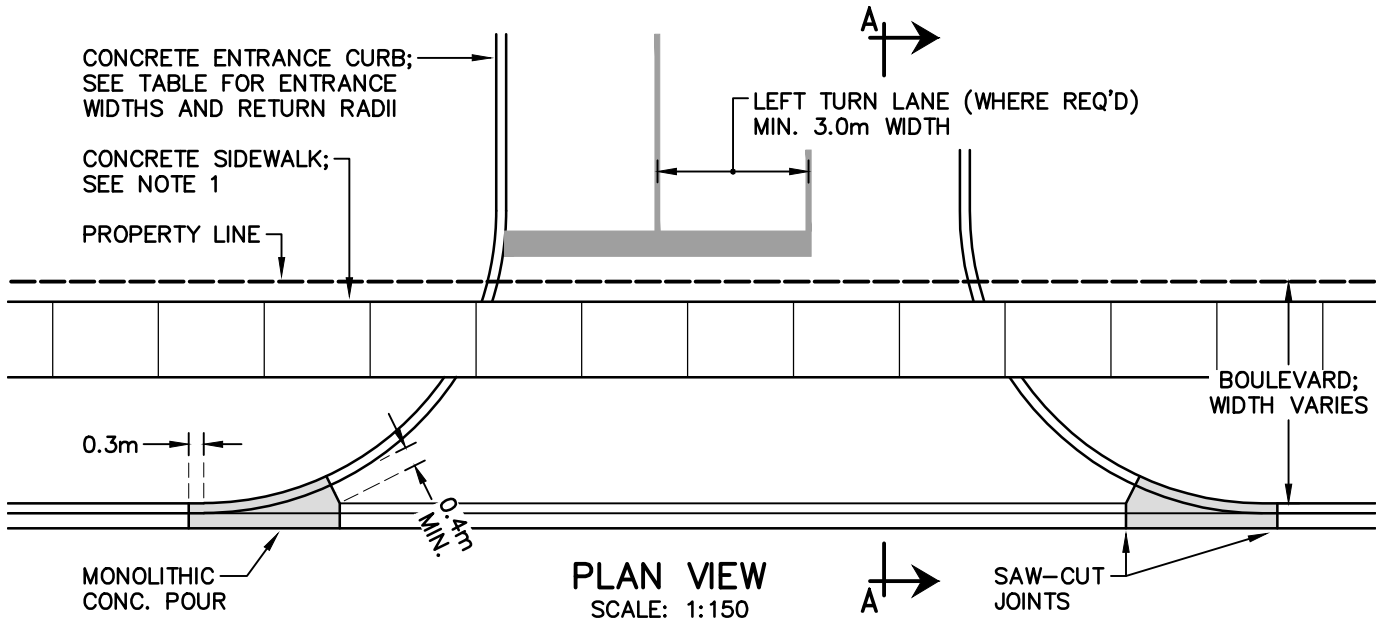
04-00.01



LAND USE	DRIVEWAY WIDTH				CURB RADII			
	ONE-WAY ⁽ⁱ⁾		TWO-WAY ⁽ⁱ⁾		TWO-LANE ⁽ⁱⁱ⁾		FOUR-LANE ⁽ⁱⁱ⁾	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
LIGHT INDUSTRIAL, CONDO., COMMERCIAL, OR APARTMENT	4.5m	7.5m	7.2m	12.0m	6.0m	12.0m	8.0m	12.0m
HEAVY INDUSTRIAL	5.0m	9.0m	9.0m	15.0m	8.0m	15.0m	8.0m </td <td>15.0m</td>	15.0m

TABLE NOTES:

- i. 'ONE-WAY' & 'TWO-WAY' REFERS TO THE SITE ENTRANCE TRAFFIC MOVEMENT.
- ii. 'TWO-LANE' & 'FOUR-LANE' REFERS TO THE NUMBER OF LANES WITHIN THE MUNICIPAL R.O.W.



NOTES:

- 1. WHERE AN ASPH. MULTI-USE PATH IS PRESENT, THE ASPH. PATH IS TO BE REPLACED WITH A CONCRETE SIDEWALK, (OF SAME WIDTH) CONSTRUCTED TO MEET ALL APPLICABLE STANDARDS, TO A MINIMUM OF 1.5m BEYOND CURB ON BOTH SIDES OF THE ENTRANCE.
- 2. WERE A WALKWAY WILL BE INSTALLED ADJACENT TO ENTRANCE CURB, A 3.0m LONG (MIN.) CURB TRANSITION WILL BE REQUIRED TO ENSURE A MAX. 5.0% WALKWAY SLOPE.

SECTION 'A'
SCALE: N.T.S.

Title

**URBAN SITE ENTRANCE
(UN SIGNALIZED)**

Scale

AS NOTED

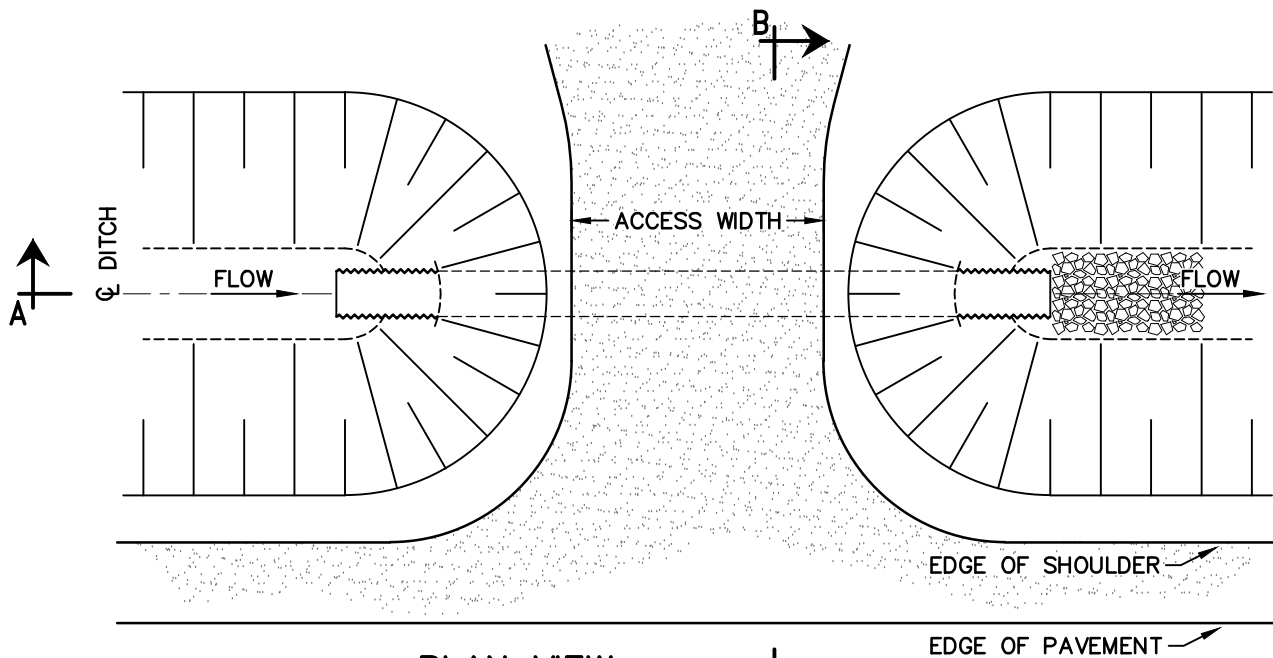
Rev. Date

2024/SEP

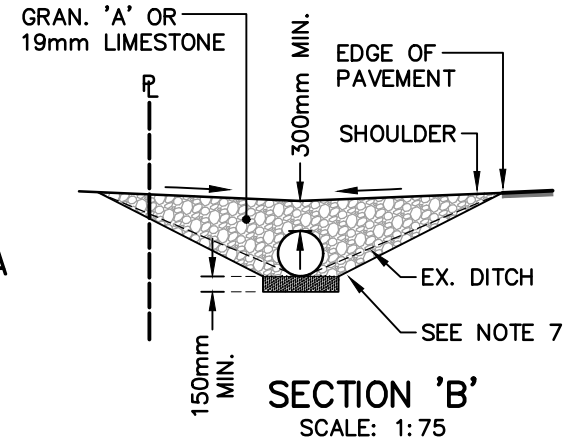
Standard No.

04-01.01

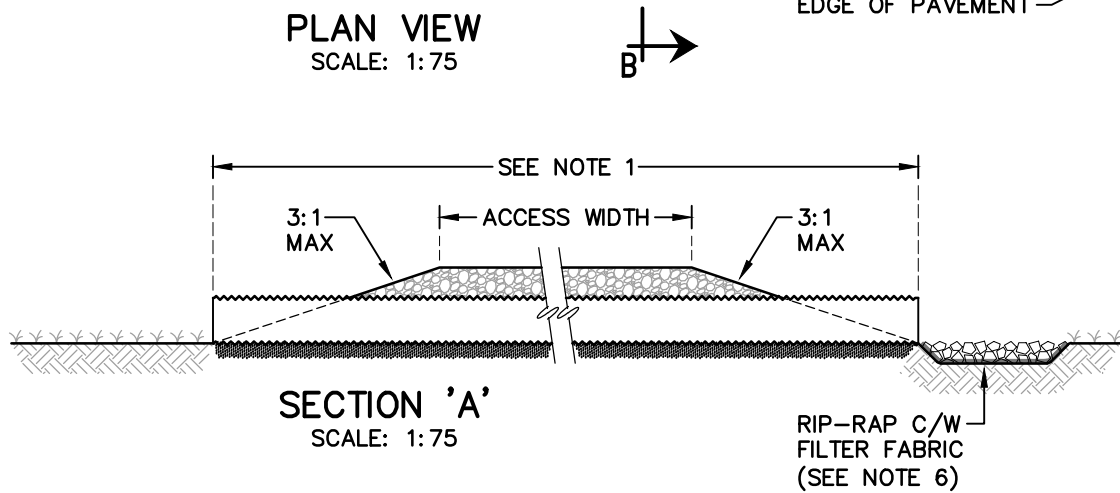




PLAN VIEW
SCALE: 1:75



SECTION 'B'
SCALE: 1:75



SECTION 'A'
SCALE: 1:75

RIP-RAP C/W
FILTER FABRIC
(SEE NOTE 6)

NOTES:

1. CULVERT LENGTH IS DEPENDENT UPON WIDTH AND DEPTH OF DITCH.
2. CULVERT SHALL BE 'BOSS 2000' OR APPROVED EQUAL.
3. MINIMUM CULVERT SIZE IS 375mm ϕ .
4. CULVERT TO INSTALLED WITH 150mm BEDDING DEPTH AND BACKFILLED WITH MIN. 300mm OF COMPACTED GRAN. 'A' COVER.
5. SIDE SLOPES SHALL NOT EXCEED 3:1.
6. CULVERT MAY REQUIRE 100mm-150mm ϕ RIP-RAP END TREATMENT AS REQUIRED THROUGH VELOCITY CALCULATIONS OR AS DIRECTED BY THE TOWN C/W 270R FILTER FABRIC OR APPROVED EQUAL.
7. ALL TOPSOIL TO BE EXCAVATED WITHIN LIMITS OF CULVERT PLACEMENT.

Title

**RURAL SITE ENTRANCE
(WITH CULVERT)**

Scale

1:75

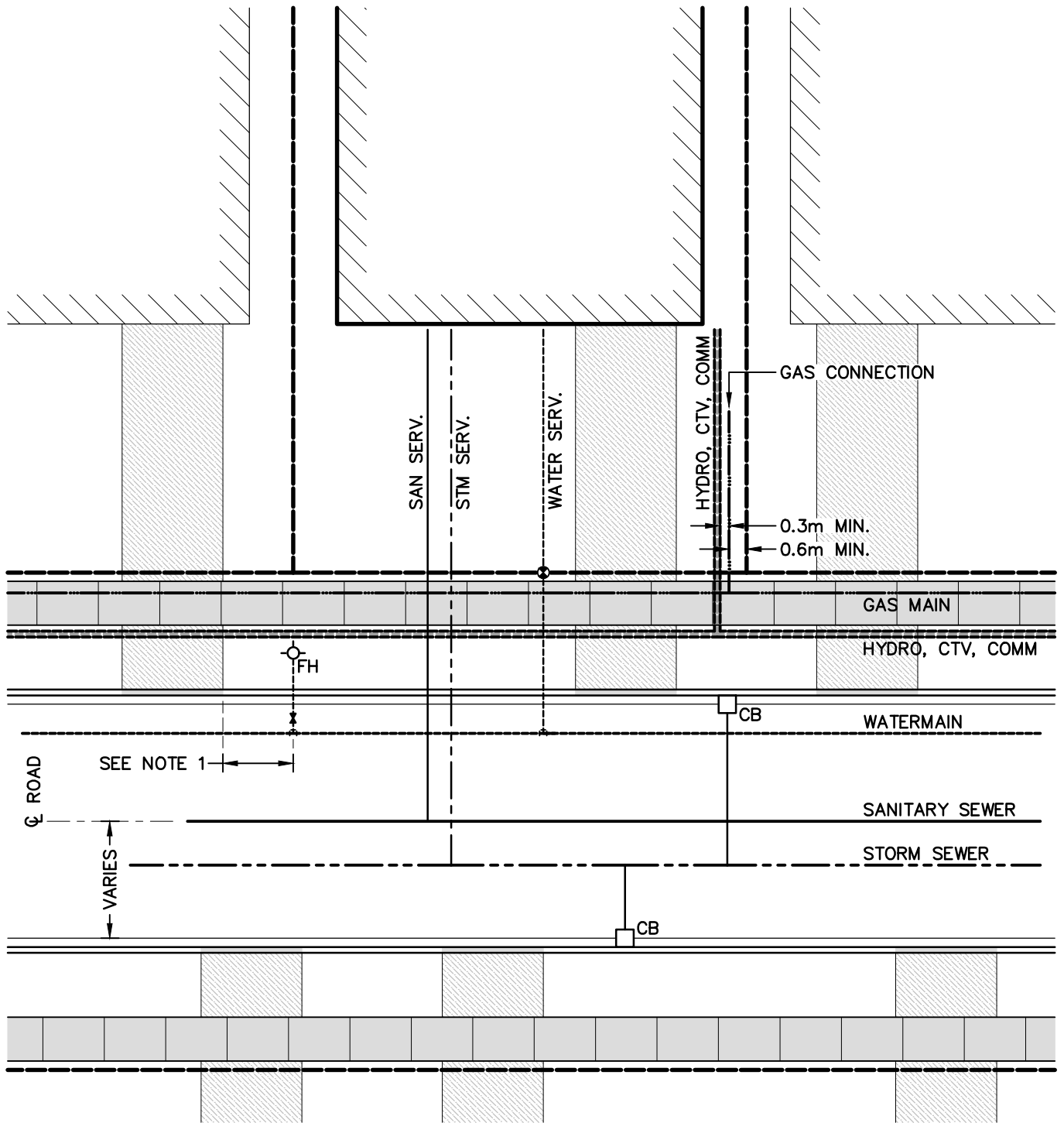
Rev. Date

2024/SEP

Standard No.

04-02.01





NOTES:

1. DRIVEWAYS ARE TO BE 1.2m CLEAR OF ANY UTILITY STRUCTURES AND HYDRANTS.
2. PREFERRED LOCATION FOR TRANSFORMERS, HYDRANTS, AND LIGHT STANDARDS IS ON LOT LINE.
3. SEE TMSD 05-02.01 FOR COMMON TRENCH INSTALLATION OF STORM AND WASTEWATER CONNECTIONS.
4. REFER TO HALTON REGION STANDARDS FOR WATER AND WASTEWATER CONNECTIONS.
5. CURB STOPS SHOULD NOT BE INSTALLED IN DRIVEWAY.

Title

RESIDENTIAL LOT SERVICING

Scale

1:200

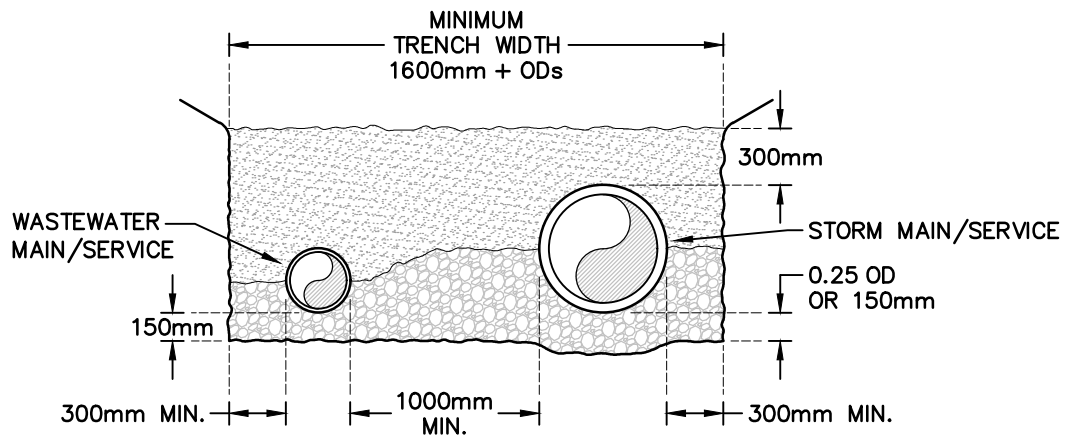
Rev. Date

2024/SEP

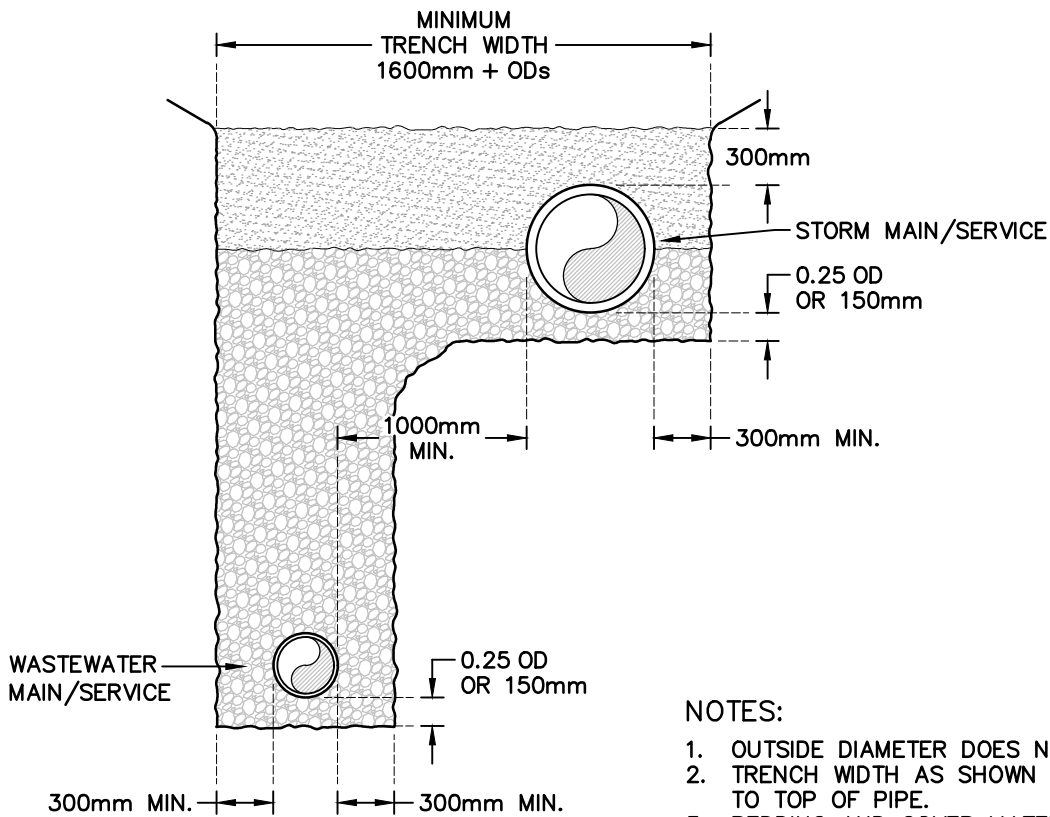
Standard No.

05-01.01





DETAIL 'A'



DETAIL 'B'

NOTES:

1. OUTSIDE DIAMETER DOES NOT INCLUDE BELL.
2. TRENCH WIDTH AS SHOWN SHALL BE MAINTAINED TO TOP OF PIPE.
3. BEDDING AND COVER MATERIAL FOR WASTEWATER CONNECTIONS SHALL BE AS PER HALTON REGION'S REQUIREMENTS.
4. BEDDING MATERIAL FOR STORM CONNECTIONS SHALL BE 19mm CRUSHER RUN LIMESTONE, COMPACTED TO 98% SPD, OR HL6 CLEAR STONE.
5. COVERING MATERIAL FOR STORM CONNECTIONS SHALL BE SAND.

Title

**COMMON TRENCH FOR
STORM & WASTEWATER**

Scale

1:40

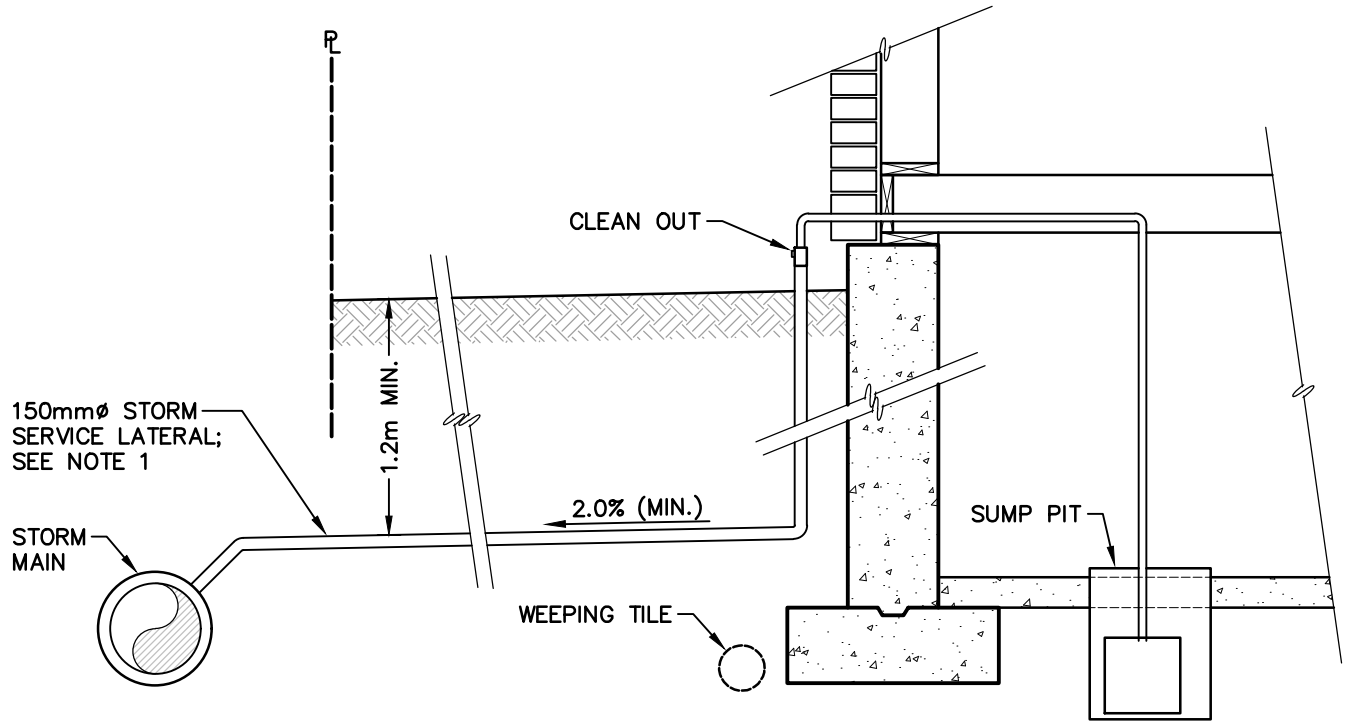
Rev. Date

2024/SEP

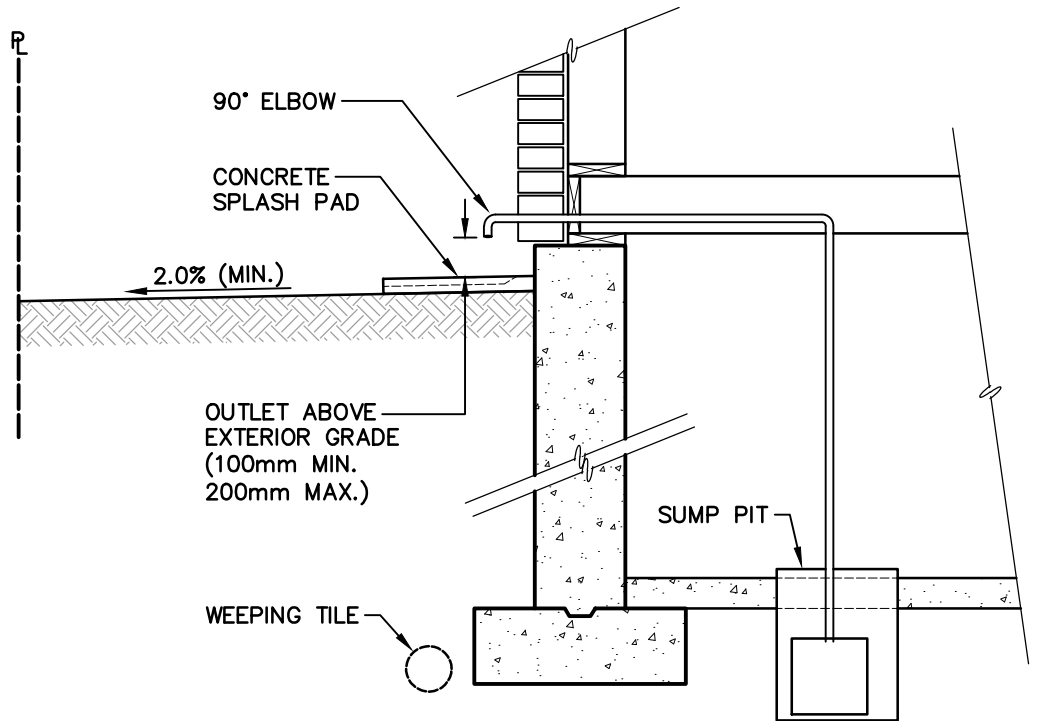
Standard No.

05-02.01





DISCHARGE TO STORM SEWER



DISCHARGE TO GRADE

NOTES:

1. CONNECTION TO STORM MAIN SHALL BE MADE C/W WITH PREFABRICATED TEE CONNECTION.

Title

SUMP PUMP DISCHARGE DETAILS

Scale

1:25

Rev. Date

2024/SEP

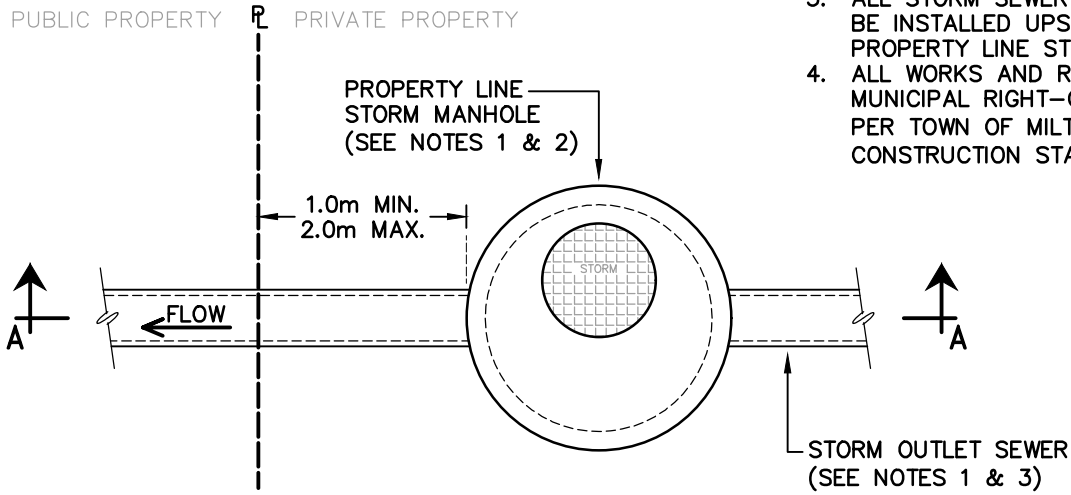
Standard No.

05-03.01

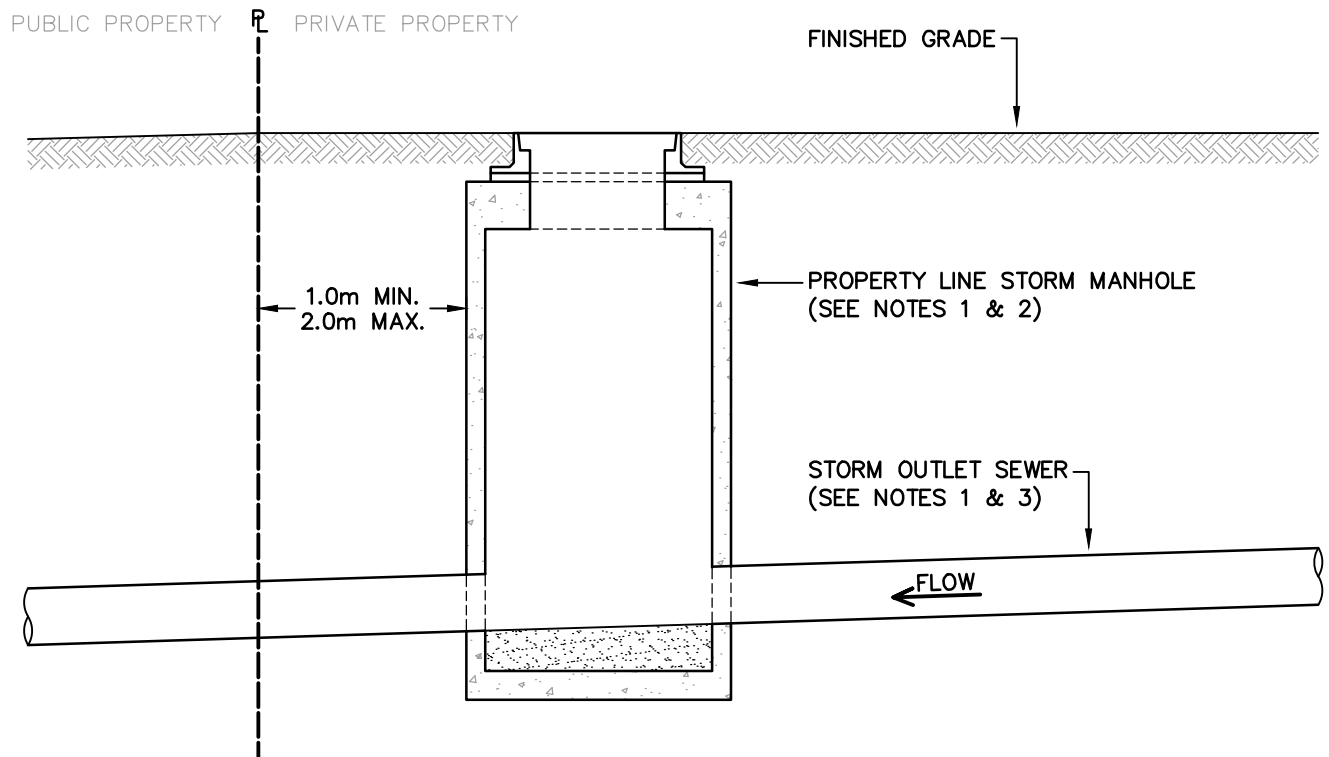


NOTES:

1. MANHOLE AND PIPES SHALL BE INSTALLED AS PER TOWN OF MILTON 'ENGINEERING AND PARKS STANDARDS MANUAL.'
2. MANHOLE SHALL BE BENCHED.
3. ALL STORM SEWER CONTROL DEVICES TO BE INSTALLED UPSTREAM OF THE PROPERTY LINE STORM MANHOLE.
4. ALL WORKS AND RESTORATION WITHIN MUNICIPAL RIGHT-OF-WAY SHALL BE AS PER TOWN OF MILTON 'RIGHT-OF-WAY CONSTRUCTION STANDARDS.'



PLAN VIEW



SECTION 'A'

Title

**STORM CONNECTION
TO MUNICIPAL
RIGHT-OF-WAY**

Scale

1:40

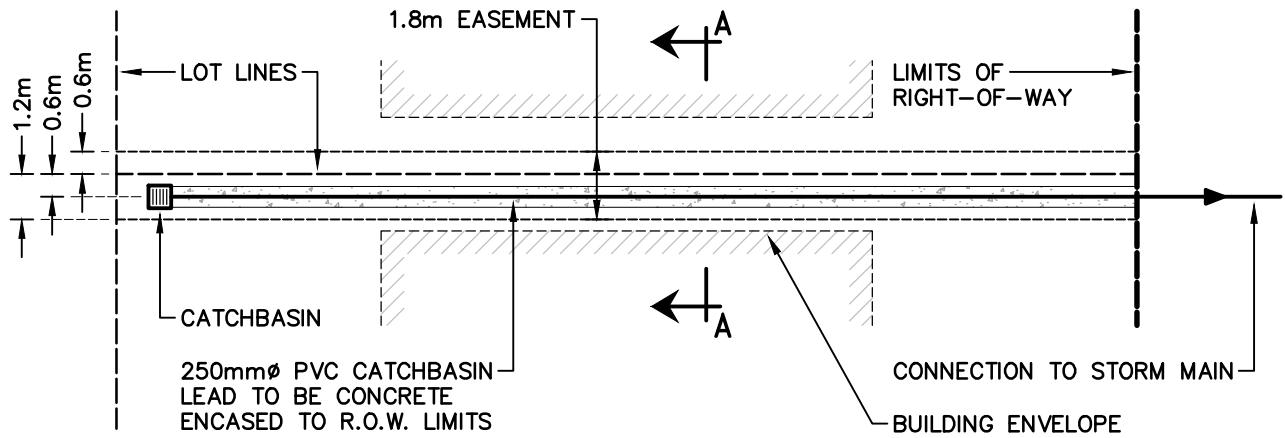
Rev. Date

2024/SEP

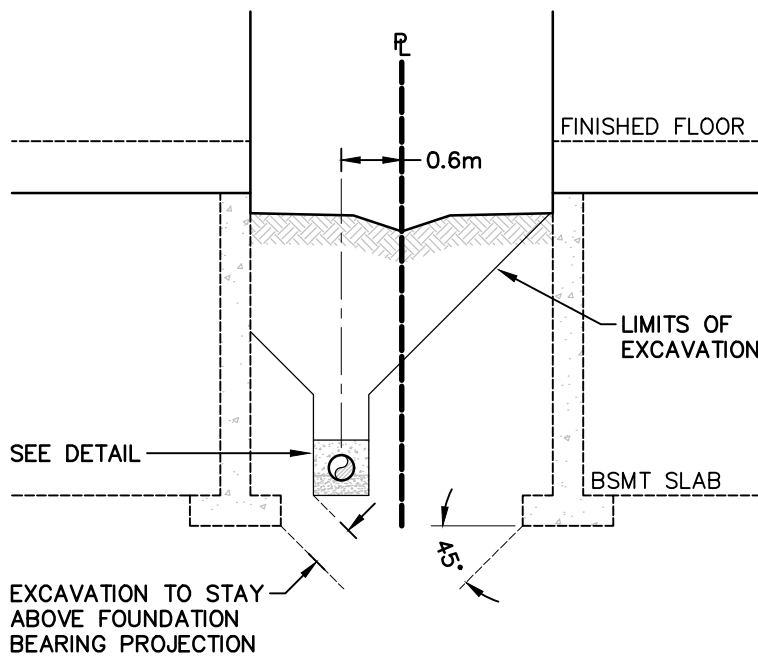
Standard No.

05-04.01

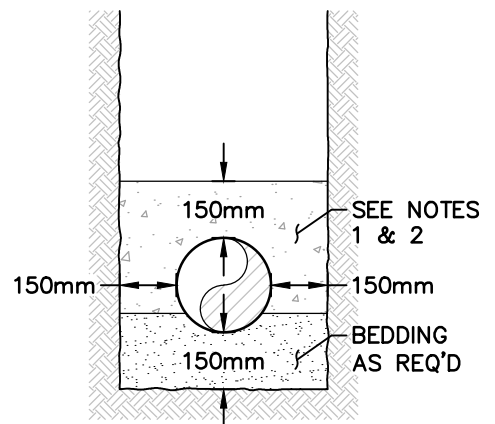




PLAN VIEW
SCALE: 1:200



SECTION 'A'
SCALE: 1:75



ENCASEMENT DETAIL
SCALE: 1:20

NOTES:

1. CONCRETE TO COVER TOP $\frac{3}{5}$ OF PIPE.
2. CONCRETE STRENGTH SHALL BE MINIMUM 20MPa.

Title

**REAR-YARD CATCHBASIN
(WITH PVC LEAD)
INSTALLATION DETAIL**

Scale

AS NOTED

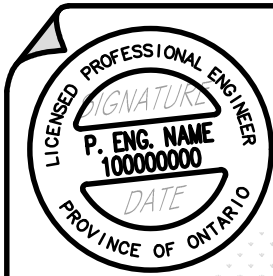
Rev. Date

2024/SEP

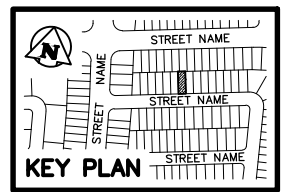
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05-04.02

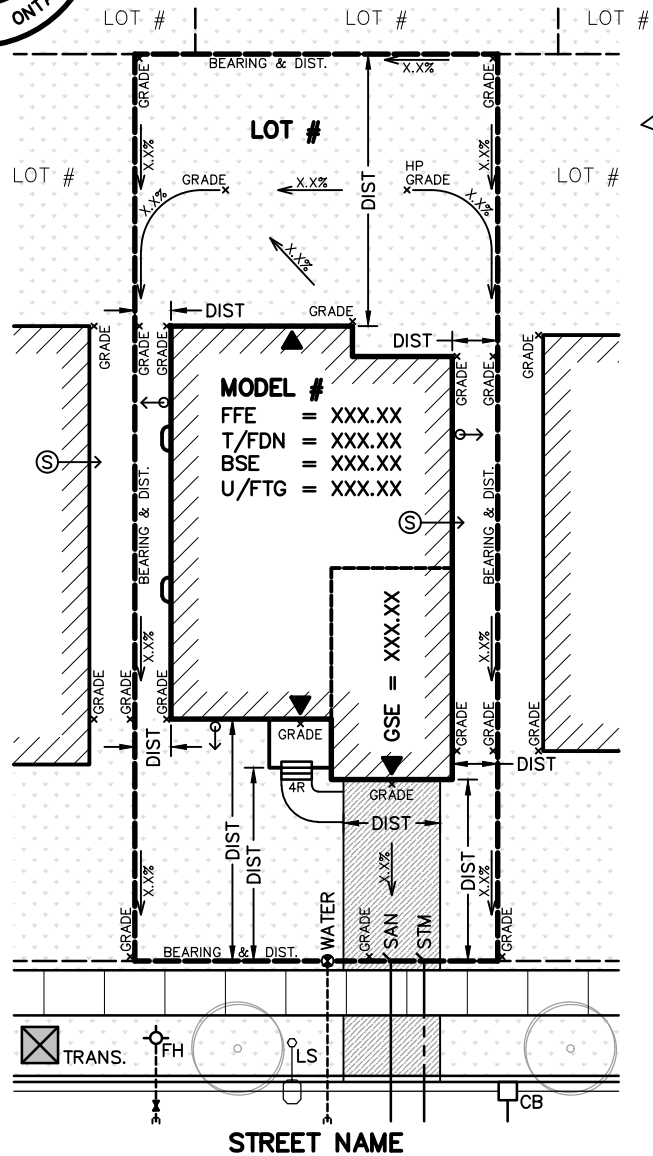




WE CERTIFY THAT THE PROPOSED GRADES AT THE LOT CORNERS MATCH THE APPROVED SUBDIVISION GRADING PLANS, AND THAT THE GRADING OF THE SUBJECT LOT IS CONSISTENT WITH TOWN STANDARDS.



216mm x 356mm SHEET
(8.5" x 14")



- NOTES:**
- THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES AND MAY NOT INCLUDE ALL INFORMATION REQUIRED FOR A COMPLETE LOT GRADING PLAN.
 - THE FOLLOWING ABBREVIATIONS HAVE BEEN USED:
 FFE — FINISHED FLOOR ELEVATION
 T/FDN — TOP OF FOUNDATION WALL
 BSE — BASEMENT SLAB ELEVATION
 U/FTG — UNDERSIDE OF FOOTING
 GSE — GARAGE SLAB ELEVATION

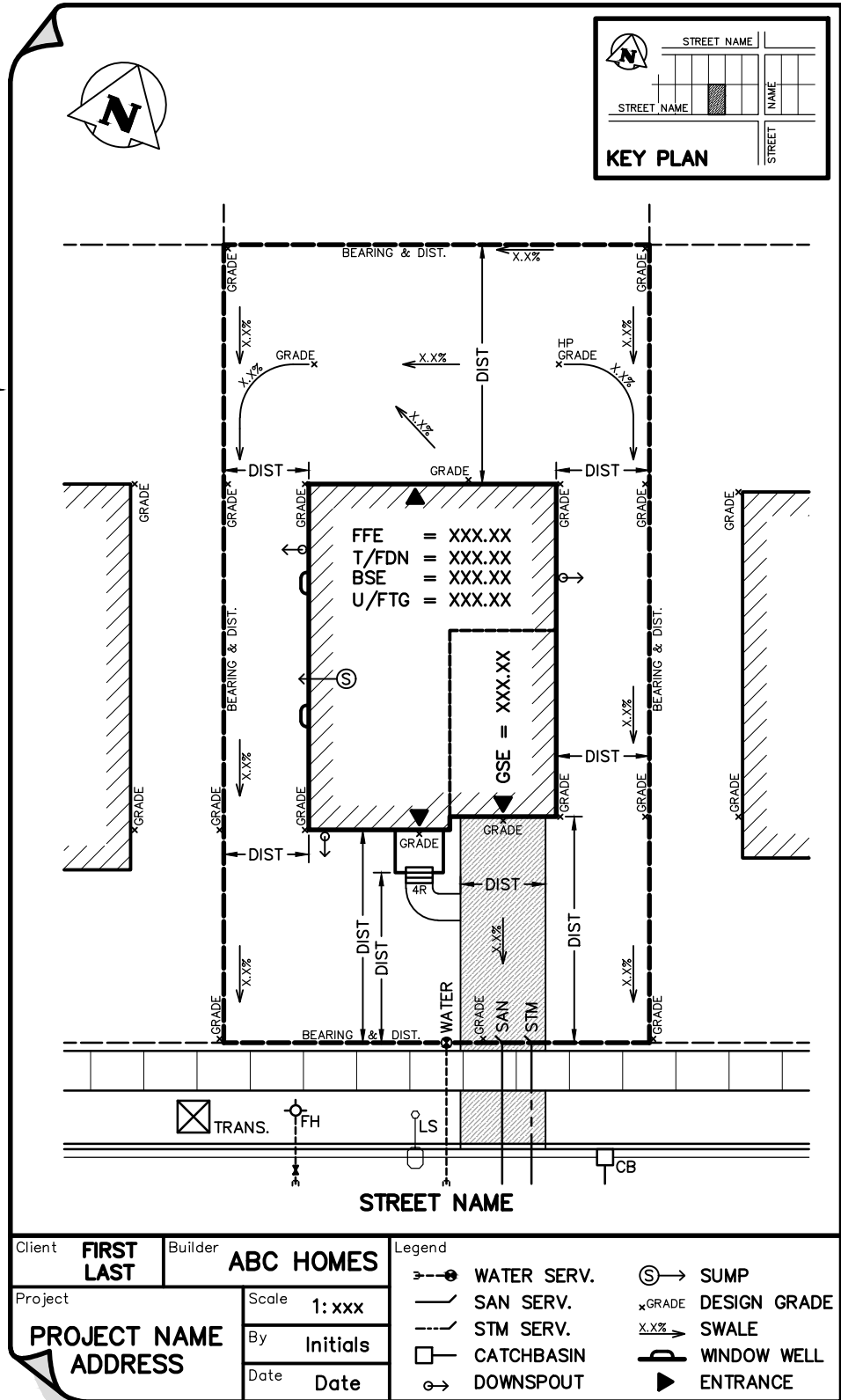
Client	DEVELOPER	Lot No.	#	Legend	
Project	DEVELOPMENT NAME & PHASE #	Scale	1:250	WATER SERV. SAN SERV. STM SERV. CATCHBASIN DOWNSPOUT	SUMP DESIGN GRADE SWALE WINDOW WELL ENTRANCE
		By	Initials		
		Date	Date		

<h1>SAMPLE LOT SITING PLAN (URBAN SUBDIVISION)</h1>	Scale	1:250	
	Rev. Date	2024/SEP	
	Standard No.	06-01.01	

NOTES:

1. THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES AND MAY NOT INCLUDE ALL INFORMATION REQUIRED FOR A COMPLETE LOT GRADING PLAN.
2. THE FOLLOWING ABBREVIATIONS HAVE BEEN USED:
 FFE — FINISHED FLOOR ELEVATION
 T/FDN — TOP OF FOUNDATION WALL
 BSE — BASEMENT SLAB ELEVATION
 U/FTG — UNDERSIDE OF FOOTING
 GSE — GARAGE SLAB ELEVATION

SHEET SIZE;
AS APPROPRIATE



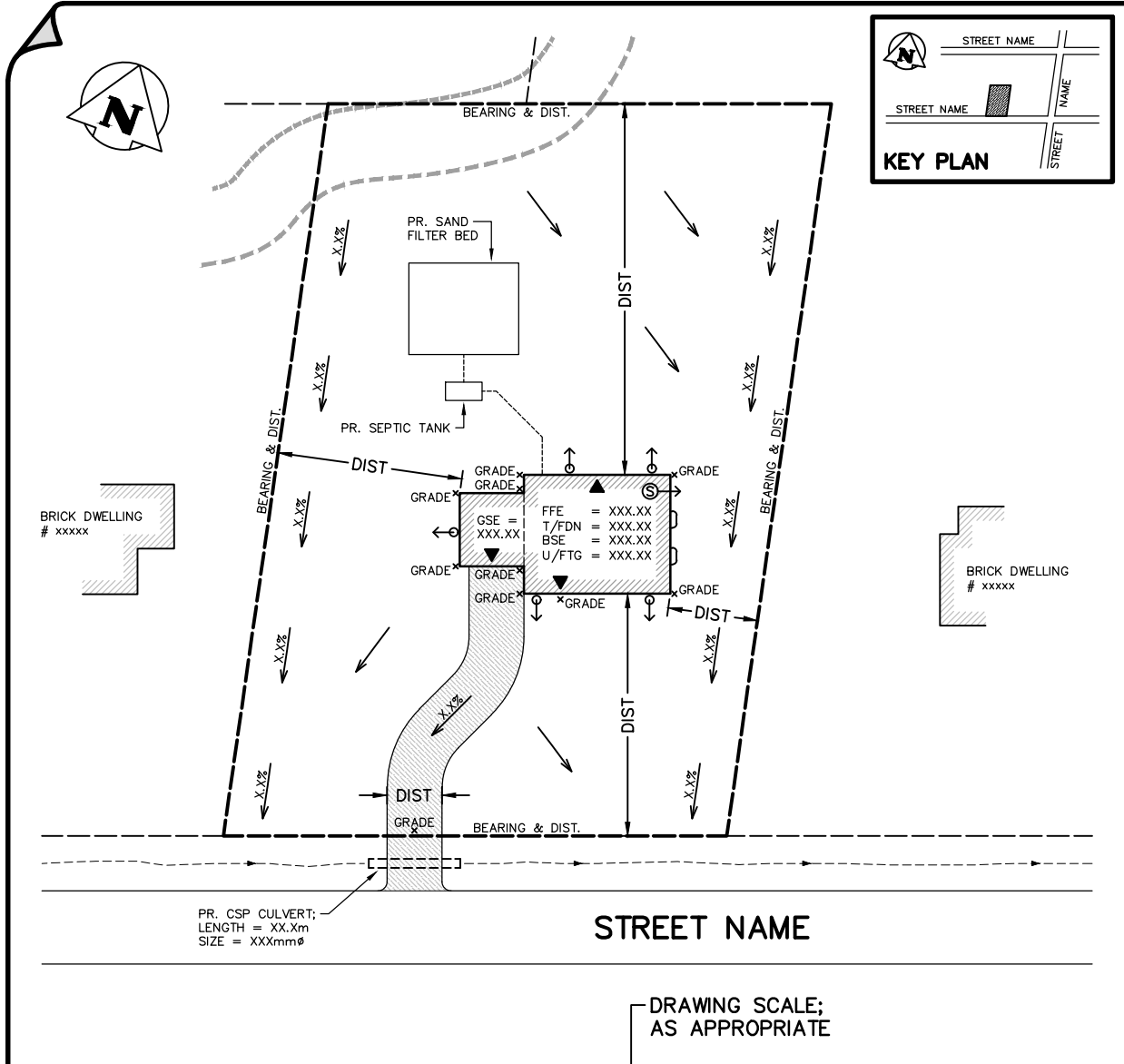
Client	FIRST LAST	Builder	ABC HOMES	Legend	WATER SERV. SAN SERV. STM SERV. CATCHBASIN DOWNSPOUT
Project	PROJECT NAME ADDRESS	Scale	1: xxx	SUMP DESIGN GRADE SWALE WINDOW WELL ENTRANCE	
		By	Initials		
		Date	Date		

<h1>SAMPLE LOT SITING PLAN</h1> <h2>(URBAN INFILL)</h2>	Scale	1: 250	
	Rev. Date	2024/SEP	
	Standard No.	06-01.02	

NOTES:

1. THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES AND MAY NOT INCLUDE ALL INFORMATION REQUIRED FOR A COMPLETE LOT GRADING PLAN.
2. THE FOLLOWING ABBREVIATIONS HAVE BEEN USED:
 - FFE - FINISHED FLOOR ELEVATION
 - T/FDN - TOP OF FOUNDATION WALL
 - BSE - BASEMENT SLAB ELEVATION
 - U/FTG - UNDERSIDE OF FOOTING
 - GSE - GARAGE SLAB ELEVATION

SHEET SIZE;
AS APPROPRIATE



DRAWING SCALE;
AS APPROPRIATE

Owner	FIRST LAST	Builder	ABC HOMES
Project	PROJECT NAME ADDRESS LOT & CONCESSION		
	Scale	1: xxx	
	By	Initials	
	Date	Date	
Legend		⊙ → SUMP xGRADE → DESIGN GRADE X.X% → SWALE ▭ → WINDOW WELL ▶ → ENTRANCE	⊙ → DOWNSPOUT - - - FLOOD LINE - - - REG. LIMIT

Title

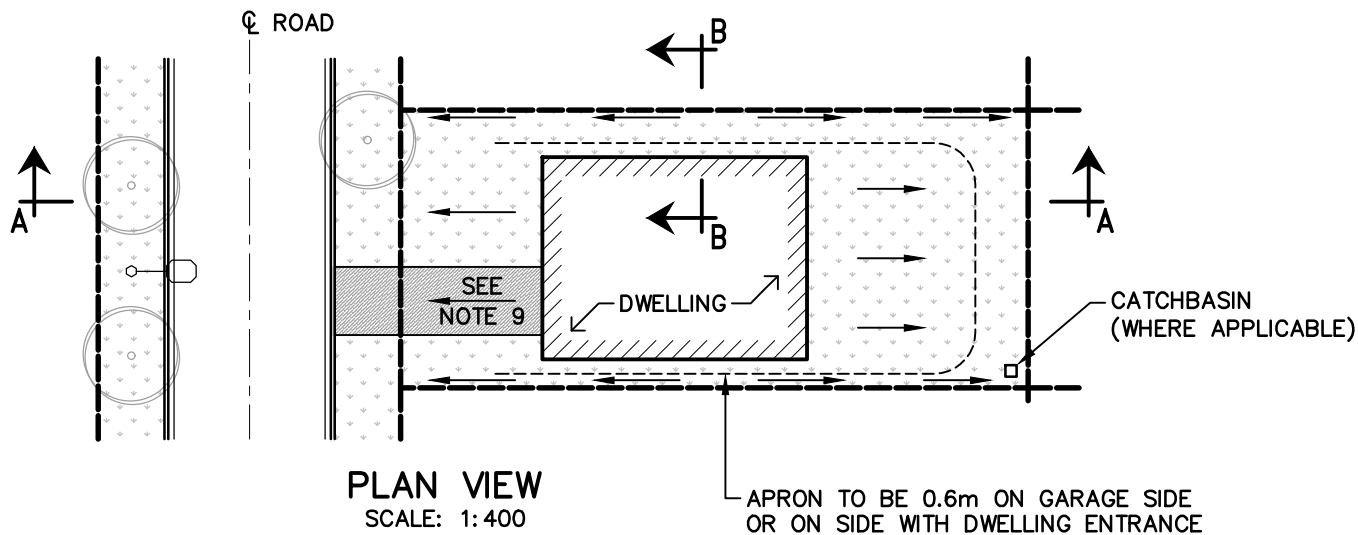
SAMPLE LOT SITING PLAN (RURAL DEVELOPMENT)

Scale
AS NOTED

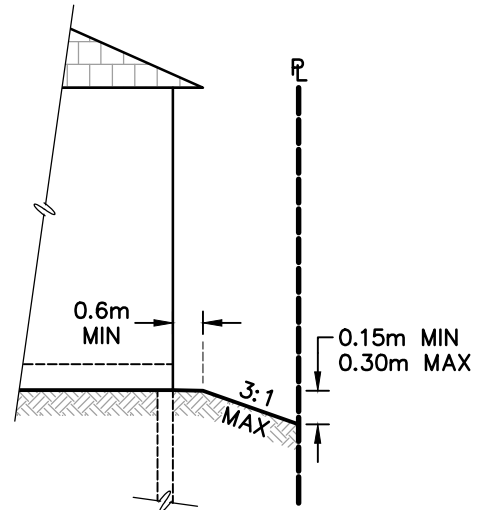
Rev. Date
2024/SEP

Standard No.
06-02.01

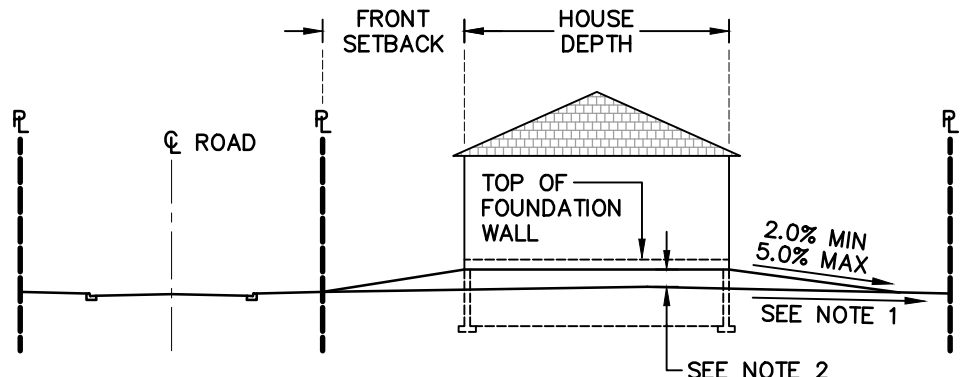




PLAN VIEW
SCALE: 1:400



SECTION 'B'
SCALE: 1:150



SECTION 'A'
SCALE: 1:400

NOTES:

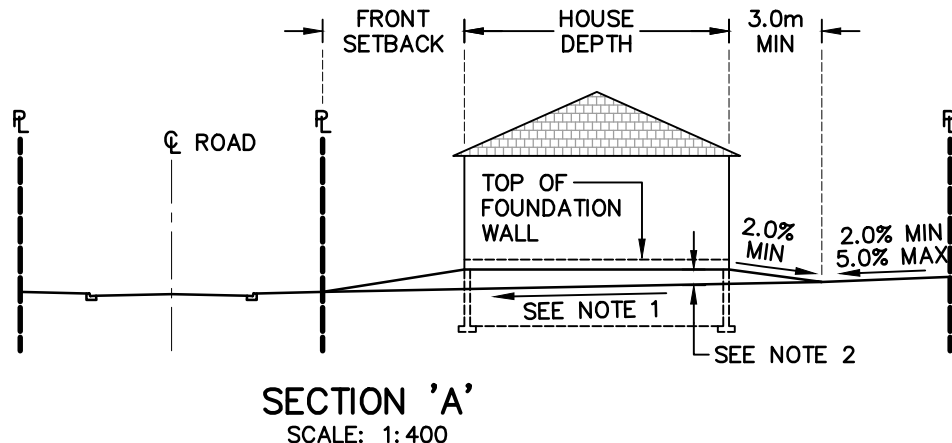
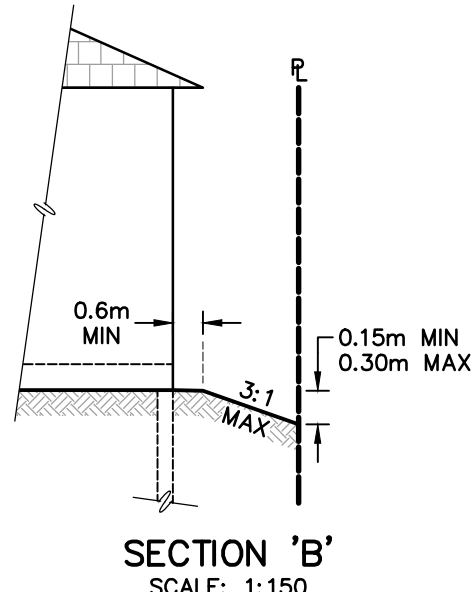
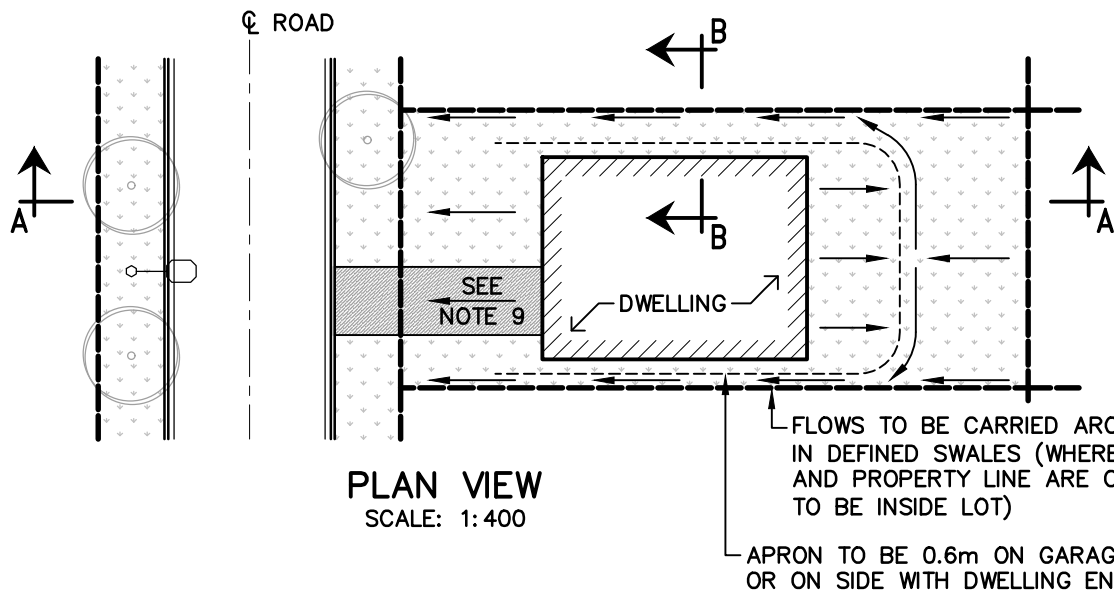
1. SIDE YARD SWALE SLOPE SHALL BE 2.0% MIN. AND 7.0% MAX.
2. ELEVATION DIFFERENCE BETWEEN BUILDING GRADES AND SIDE YARD SWALE GRADES SHALL BE 0.15m MIN. AND 0.30m MAX. AS REQUIRED BY SIDE YARD WIDTH.
3. A MIN. 0.60m WIDE APRON IS TO BE MAINTAINED AGAINST ALL DWELLINGS TO ALLOW FOR ACCESS FROM SIDE ENTRANCES TO FRONT AND REAR YARDS. APRON TO BE ON GARAGE SIDE WHERE THERE IS NO SIDE ENTRANCE.
4. SLOPES WITHIN LOTS ARE TO HAVE A MAX. GRADE OF 3:1.
5. DIFFERENCE BETWEEN SIDE ENTRANCE DOOR SILL AND GROUND SHALL BE 0.40m MAX.
6. TOP OF FOUNDATION WALL SHALL BE 0.15m MIN. ABOVE BUILDING GRADES.
7. A MIN. 75% OF THE REAR YARD SHALL BE GRADED BETWEEN 2.0% AND 5.0%.
8. DRIVEWAY SLOPE SHALL BE 2.0% MIN. AND 6.0% MAX.

Title

URBAN LOT GRADING 'SPLIT' DRAINAGE

Scale	AS NOTED
Rev. Date	2024/SEP
Standard No.	06-03.01





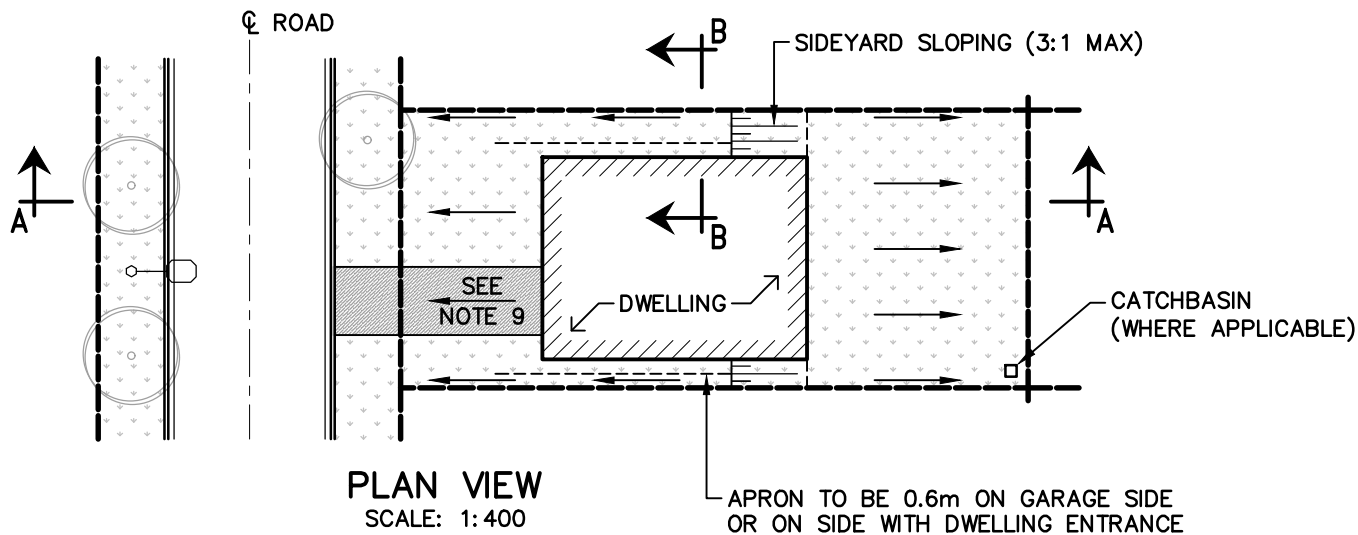
- NOTES:**
1. SIDE YARD SWALE SLOPE SHALL BE 2.0% MIN. AND 7.0% MAX.
 2. ELEVATION DIFFERENCE BETWEEN BUILDING GRADES AND SIDE YARD SWALE GRADES SHALL BE 0.15m MIN. AND 0.30m MAX. AS REQUIRED BY SIDE YARD WIDTH.
 3. A MIN. 0.60m WIDE APRON IS TO BE MAINTAINED AGAINST ALL DWELLINGS TO ALLOW FOR ACCESS FROM SIDE ENTRANCES TO FRONT AND REAR YARDS. APRON TO BE ON GARAGE SIDE WHERE THERE IS NO SIDE ENTRANCE.
 4. SLOPES WITHIN LOTS ARE TO HAVE A MAX. GRADE OF 3:1.
 5. DIFFERENCE BETWEEN SIDE ENTRANCE DOOR SILL AND GROUND SHALL BE 0.40m MAX.
 6. TOP OF FOUNDATION WALL SHALL BE 0.15m MIN. ABOVE BUILDING GRADES.
 7. A MIN. 75% OF THE REAR YARD SHALL BE GRADED BETWEEN 2.0% AND 5.0%.
 8. DRIVEWAY SLOPE SHALL BE 2.0% MIN. AND 6.0% MAX.

Title

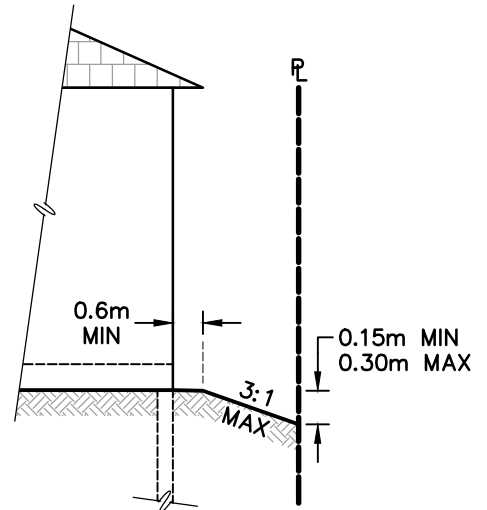
URBAN LOT GRADING 'BACK TO FRONT' DRAINAGE

Scale	AS NOTED
Rev. Date	2024/SEP
Standard No.	06-03.02

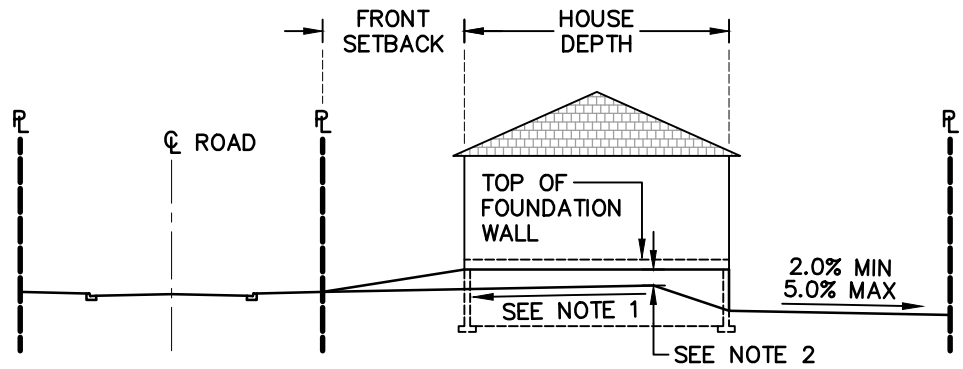




PLAN VIEW
SCALE: 1:400



SECTION 'B'
SCALE: 1:150



SECTION 'A'
SCALE: 1:400

NOTES:

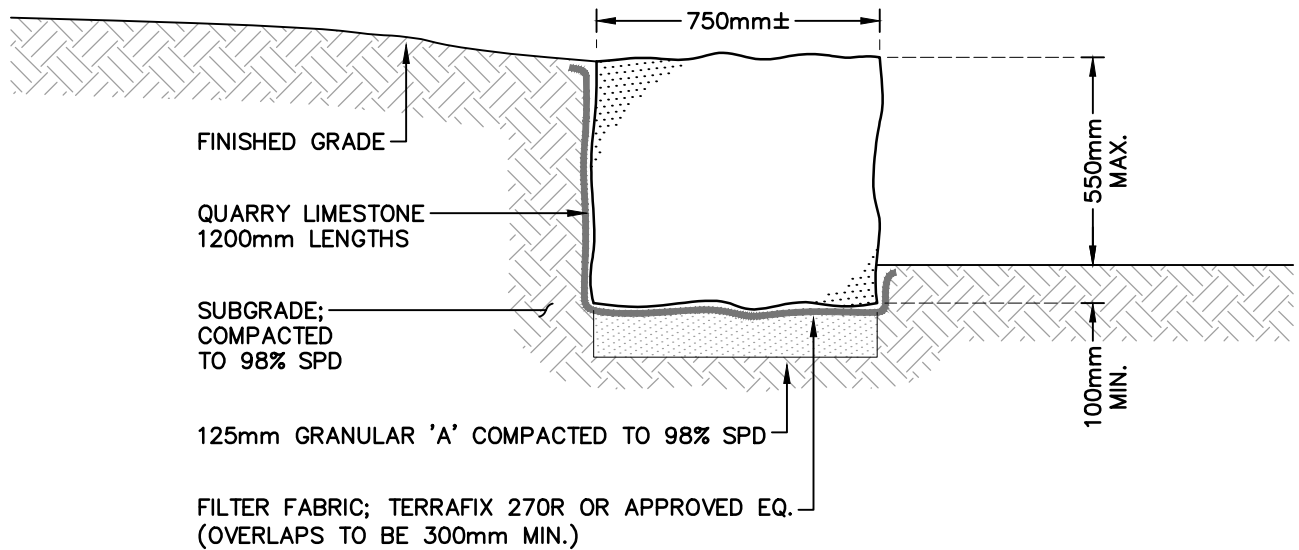
1. SIDE YARD SWALE SLOPE SHALL BE 2.0% MIN. AND 7.0% MAX.
2. ELEVATION DIFFERENCE BETWEEN BUILDING GRADES AND SIDE YARD SWALE GRADES SHALL BE 0.15m MIN. AND 0.30m MAX. AS REQUIRED BY SIDE YARD WIDTH.
3. A MIN. 0.60m WIDE APRON IS TO BE MAINTAINED AGAINST ALL DWELLINGS TO ALLOW FOR ACCESS FROM SIDE ENTRANCES TO FRONT AND REAR YARDS. APRON TO BE ON GARAGE SIDE WHERE THERE IS NO SIDE ENTRANCE.
4. SLOPES WITHIN LOTS ARE TO HAVE A MAX. GRADE OF 3:1.
5. DIFFERENCE BETWEEN SIDE ENTRANCE DOOR SILL AND GROUND SHALL BE 0.40m MAX.
6. TOP OF FOUNDATION WALL SHALL BE 0.15m MIN. ABOVE BUILDING GRADES.
7. A MIN. 75% OF THE REAR YARD SHALL BE GRADED BETWEEN 2.0% AND 5.0%.
8. DRIVEWAY SLOPE SHALL BE 2.0% MIN. AND 6.0% MAX.

Title

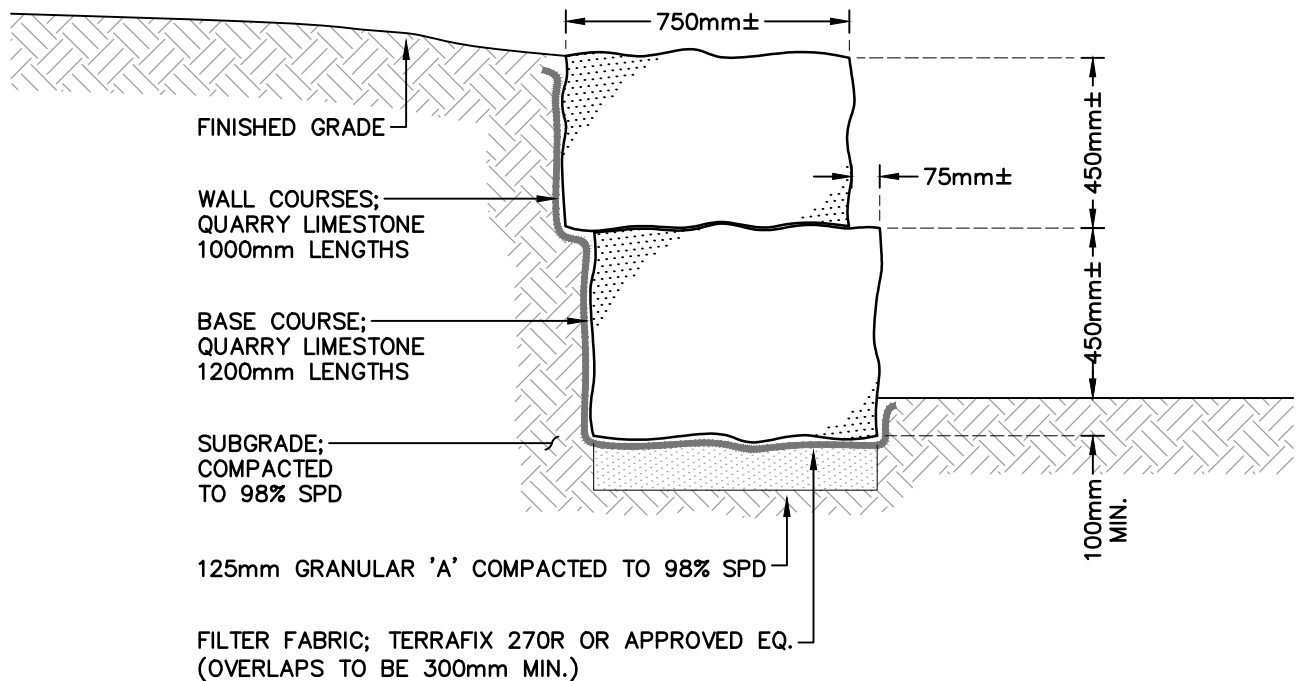
URBAN LOT GRADING 'LOOKOUT/WALKOUT' DRAINAGE

Scale	AS NOTED
Rev. Date	2024/SEP
Standard No.	06-03.03





SINGLE COURSE WALL



MULTI-COURSE WALL

NOTES:

1. ANY RETAINING WALL WITH AN EXPOSED HEIGHT GREATER THAN 600mm REQUIRES A 1070mm TALL (MIN.) GUARD. GUARDS ON PUBLIC PROPERTY TO BE BLACK VINYL CHAIN-LINK FENCE. FENCE POSTS TO BE SET INTO TOP COURSE OF STONE, A MINIMUM OF 200mm FROM THE EDGE OF ANY STONE.
2. ANY RETAINING WALL WITH AN EXPOSED HEIGHT GREATER THAN 1000mm REQUIRE A BUILDING PERMIT, AND MUST BE DESIGNED BY A STRUCTURAL P.ENG.
3. GAPS BETWEEN STONE NOT TO EXCEED 50mm.
4. REMOVE AND GRIND SMOOTH ALL SHARP EDGES.
5. APPEARANCE OF LIMESTONE TO BE REVIEWED AND APPROVED BY TOWN PRIOR TO INSTALLATION.

Title

ARMOUR STONE RETAINING WALL

Scale

1:20

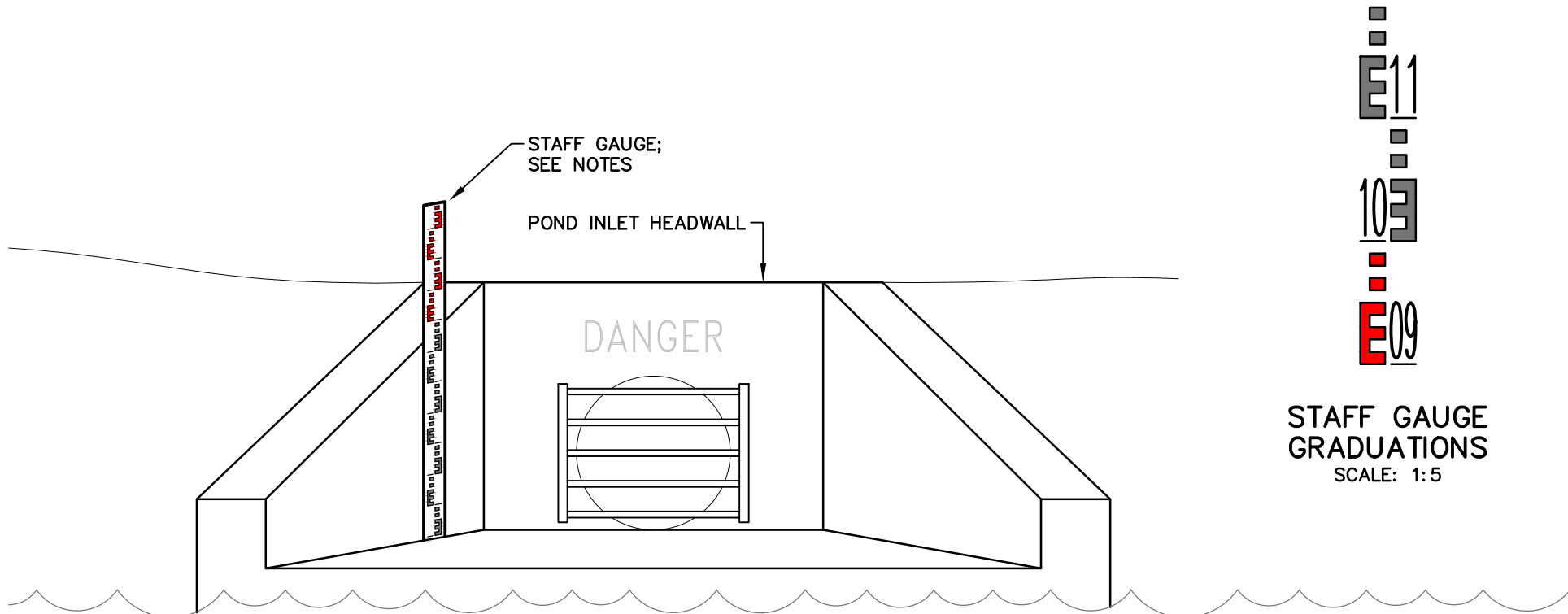
Rev. Date

2024/SEP

Standard No.

07-01.01





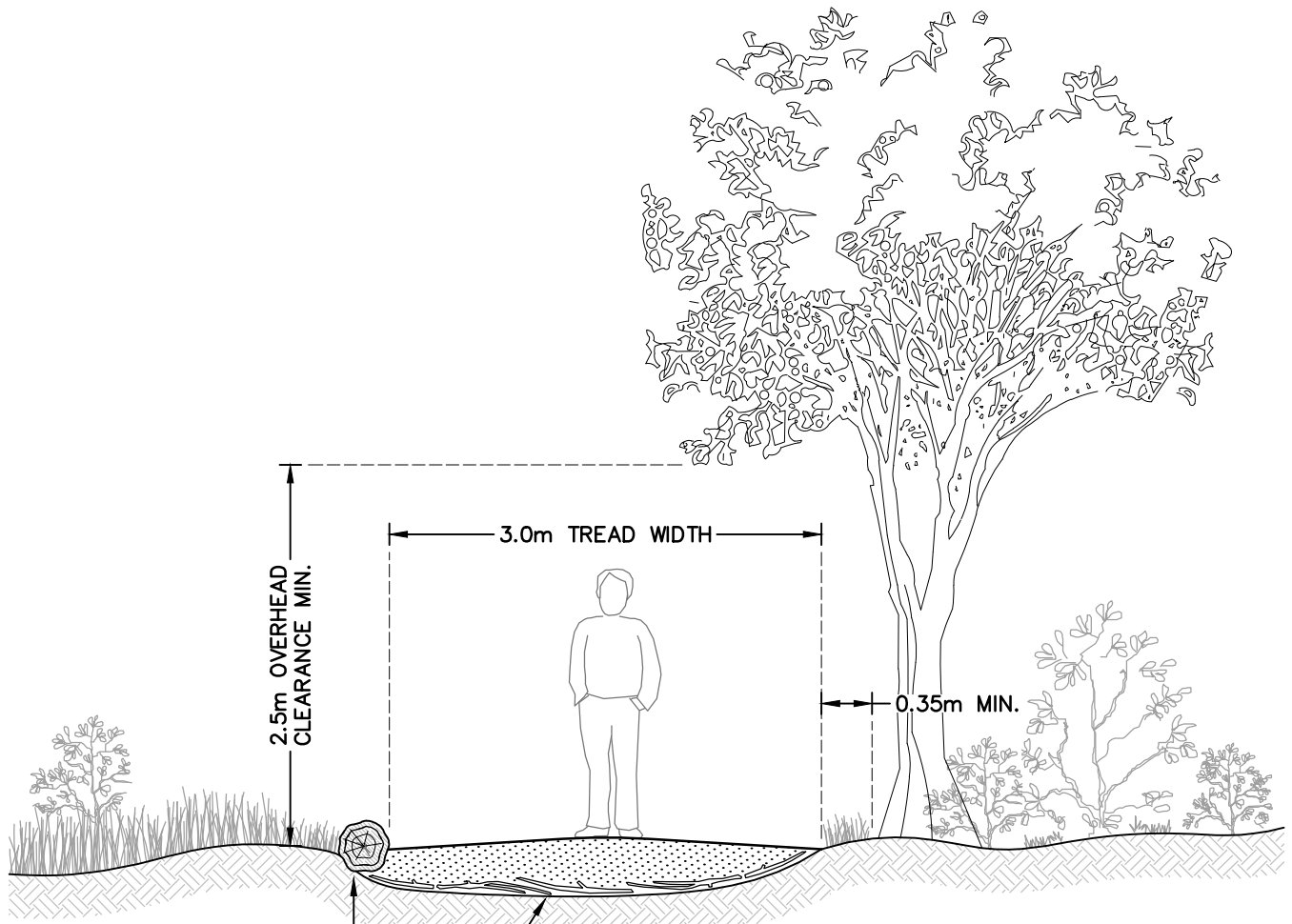
STAFF GAUGE
GRADUATIONS
SCALE: 1:5

ELEVATION VIEW
SCALE: AS NOTED

NOTES:

1. STAFF GAUGE TO BE INSTALLED AS SHOWN ON THE WING WALL OF A SWM POND INLET HEADWALL.
2. FASTEN STAFF GAUGE TO CONCRETE USING CONCRETE SCREW ANCHORS.
3. ELEVATION OF STAFF GAUGE TO BE SET WITH 'ZERO' AS THE NORMAL WATER LEVEL.
4. ELEVATION GRADUATIONS ARE TO BE METRIC, USING A STANDARD 'E' PATTERN ALTERNATING IN COLOUR BETWEEN RED AND BLACK EVERY METRE, ON A WHITE BACKGROUND.

<p>Title</p> <p>SWM FACILITY STAFF GAUGE INSTALLATION</p>	<p>Scale</p> <p>1:20</p>	
	<p>Rev. Date</p> <p>2024/SEP</p>	
	<p>Standard No.</p> <p>08-01.01</p>	



PLACE TRIMMED LOGS
ALONG TRAIL WHERE
RETAINING IS REQUIRED

IN LOW OR WET AREAS;
LAY BRANCHES/STICKS/LOGS
(ON GEOTEXTILE FABRIC)
PERPENDICULAR TO THE PATH
TO RAISE IT'S ELEVATION

NOTES:

1. PATHWAY SURFACE TO BE MULCH WITH A TYPICAL THICKNESS OF 150mm (DEPENDING ON MOISTURE AND ELEVATION).
2. PATH TO BE BUILT UP ABOVE SURROUNDING AREA AND CROWNED IN CENTRE.
3. AVOID DISTURBANCE TO TREE ROOT ZONES WHERE TREES HAVE A DBH CALIPER SIZE > 100mm.
4. TREE PRUNING, STOCKPILING, & PLACEMENT OF PRUNED MATERIAL SHALL BE AS DIRECTED BY TOWN STAFF.
5. PATH TO BE LOCATED IN AREA OF LEAST DISTURBANCE TO TREES, AS APPROVED BY TOWN STAFF. REFER TO LAYOUT PLAN.
6. WHERE APPLICABLE, WORK PERFORMED SHALL ADHERE TO THE APPROVED WOODLOT MANAGEMENT PLAN.
7. SIGNAGE TO BE INSTALLED AS DIRECTED BY TOWN STAFF.

Title

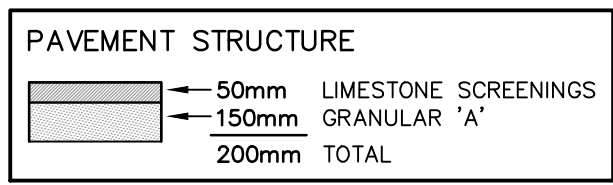
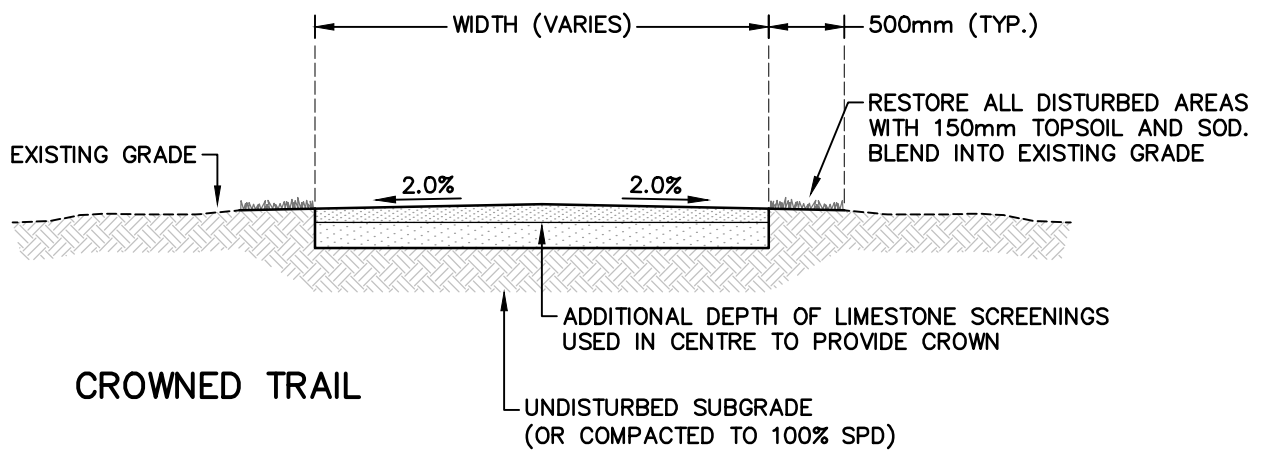
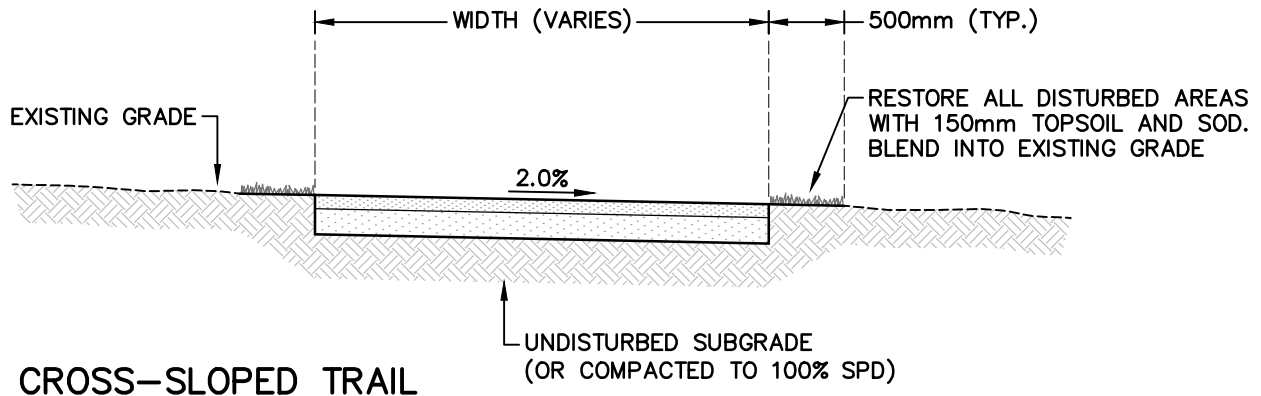
WOODLOT MULCH TRAIL

Scale
1:50

Rev. Date
2024/SEP

Standard No.
09-01.01

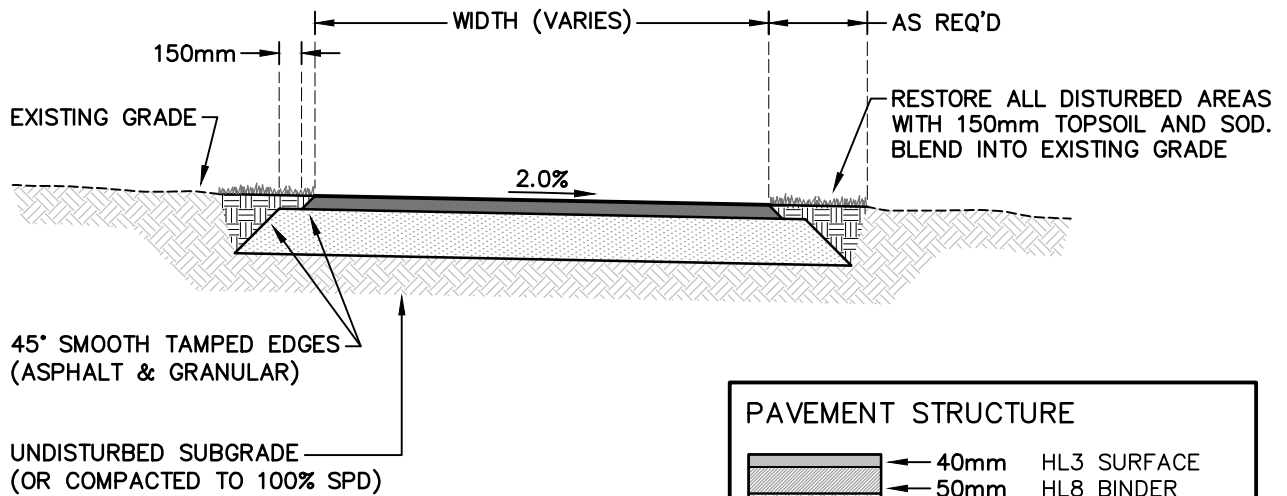




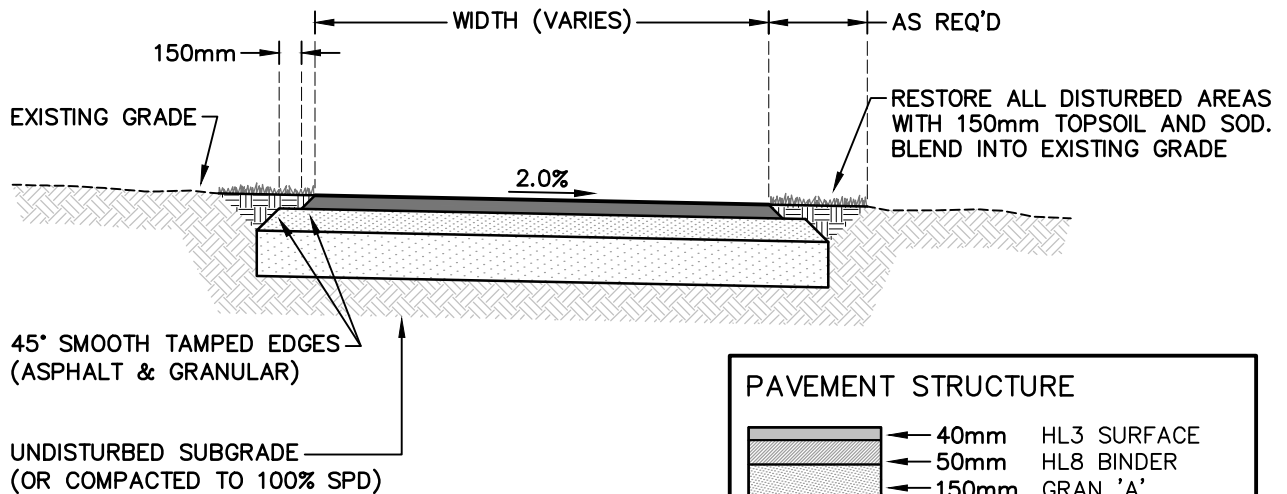
NOTES:

1. INTERCEPT SWALES SHALL BE DESIGNED TO PREVENT SHEET FLOWS FROM CROSSING MAJOR PEDESTRIAN WALKWAYS. CULVERTS TO BE INSTALLED AS REQUIRED.
2. FINAL GRADING AND CROSS-SLOPES TO BE DETERMINED BY TOWN STAFF ON A SITE-BY-SITE BASIS.
3. LIMESTONE SCREENINGS & GRANULAR 'A' TO BE COMPACTED TO 100% SPD.
4. TRAIL HARDENING AGENT TO BE USED ON TRAILS LOCATED WITHIN TRIBUTARY CHANNEL BUFFERS, AND AREAS WITH HIGHER EROSION POTENTIAL.

LIMESTONE SCREENINGS TRAIL	Scale	1: 50	
	Rev. Date	2024/SEP	
	Standard No.	09-01.02	



LIGHT DUTY ASPHALT



HEAVY DUTY ASPHALT

NOTES:

1. EXCAVATE TO SPECIFIED MINIMUM DEPTH (OR GREATER) TO ENSURE REMOVAL OF ALL TOPSOIL AND UNSUITABLE MATERIAL, PRIOR TO PLACEMENT AND COMPACTION OF BASE MATERIALS.
2. ALL DISTURBED AREAS ALONG TRAIL EDGES TO BE FINISHED WITH A MINIMUM OF 100mm TOPSOIL & SOD, INSTALLED FLUSH TO EDGE OF TRAIL SURFACE, AND FEATHERED INTO EXISTING GRADE.
3. INTERCEPT SWALES SHALL BE DESIGNED TO PREVENT SHEET FLOWS FROM CROSSING MAJOR PEDESTRIAN WALKWAYS. CULVERTS TO BE INSTALLED AS REQUIRED.
4. DIRECTION OF CROSS-SLOPE TO BE DETERMINED ON A SITE-BY-SITE BASIS.
5. ALL GRANULAR MATERIAL TO BE COMPACTED TO 100% SPD.

Title

ASPHALT TRAIL

Scale

1:50

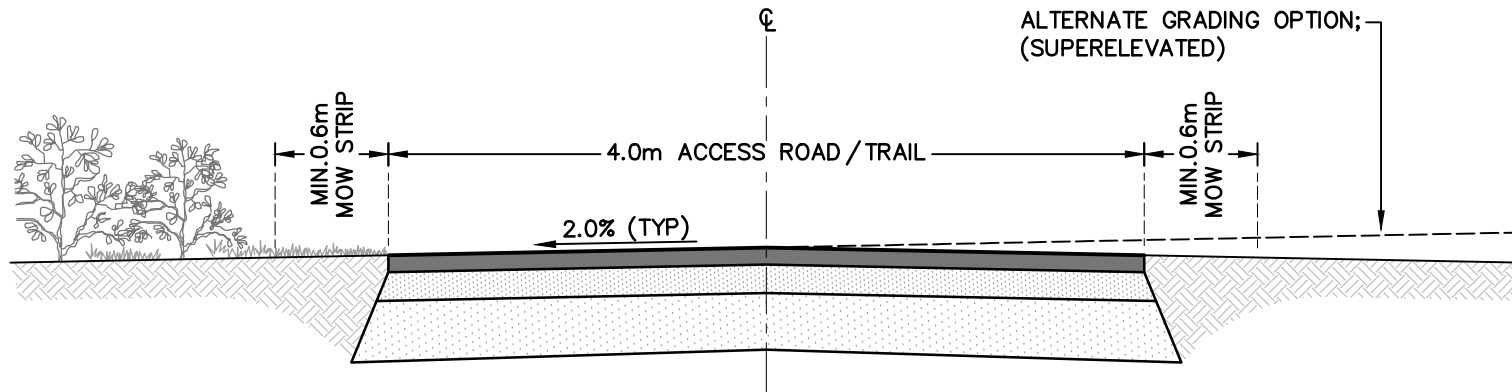
Rev. Date

2024/SEP

Standard No.

09-01.03





PAVEMENT STRUCTURE		
←	40mm	HL3 SURFACE
←	50mm	HL8 BINDER
←	150mm	19mm LIMESTONE
←	300mm	GRAN. 'B' TYPE II
	540mm	TOTAL

NOTES:

1. NATIVE SUBGRADE TO BE COMPACTED TO 98% SPD.
2. THE MAXIMUM LONGITUDINAL SLOPE SHALL BE 5.0% AT ALL LOCATIONS, INCLUDING AT EMERGENCY OVERFLOWS.
3. ACCESS ROAD/TRAIL SHALL MEET A.O.D.A. STANDARDS AT ALL LOCATIONS.
4. P-GATES ARE REQUIRED AT ALL POINTS OF ACCESS FROM A RIGHT-OF-WAY. (REFER TO TMSD 08-03.01 & 08-03.02)
5. ACCESS RAMP ABOVE PERMANENT POOL SHALL BE AS PER THIS DETAIL, EXCEPT WITH A MAXIMUM LONGITUDINAL SLOPE OF 10%.
6. ACCESS RAMP BELOW PERMANENT POOL (SUBMERGED) SHALL BE CONSTRUCTED WITH AN EROSION RESISTANT MATERIAL SUCH AS DURAMAT, TERRAFIX, TURFSTONE, ETC., (OR APPROVED EQUAL) TO THE SATISFACTION OF THE TOWN.

Title

SWM POND ASPHALT ACCESS ROAD/TRAIL

Scale

1:40

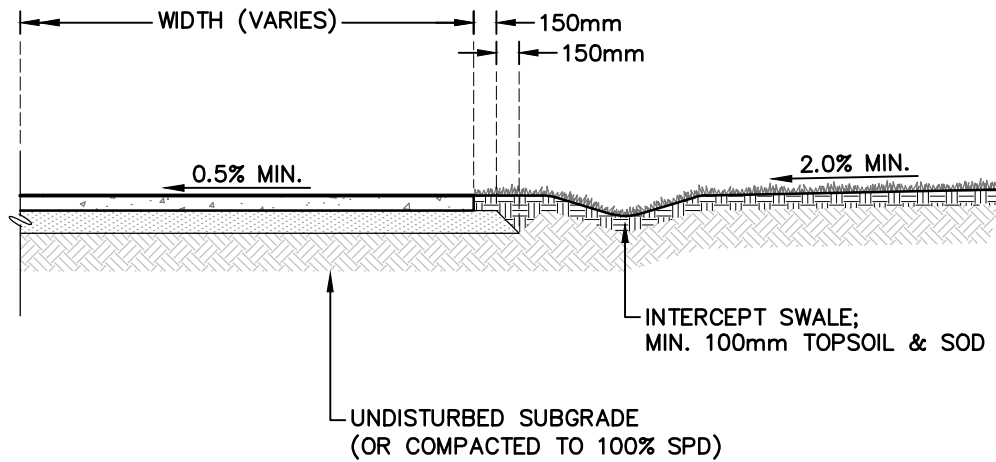
Rev. Date



2024/SEP

Standard No.

09-01.04





PAVEMENT STRUCTURE	
	← 125mm POURED IN PLACE READY MIX CONCRETE
	← 150mm GRANULAR 'A'
	275mm TOTAL

NOTES:

- EXCAVATE TO SPECIFIED MINIMUM DEPTH (OR GREATER) TO ENSURE REMOVAL OF ALL TOPSOIL AND UNSUITABLE MATERIAL, PRIOR TO PLACEMENT AND COMPACTION OF BASE MATERIALS.
- GRANULAR 'A' TO BE COMPACTED TO 95% SPD.
- REFER TO OPSD 310.010 FOR EXPANSION JOINT DETAILS.
- CONCRETE REINFORCING PER DETAILED DESIGN DRAWINGS AND SPECIFICATIONS.
- CONCRETE TO BE BROOM FINISHED UNLESS OTHERWISE SPECIFIED BY TOWN.
- PROTECT CONCRETE FROM ALL DAMAGE WHILE CURING. DAMAGES TO CONCRETE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- INTERCEPT SWALES SHALL BE DESIGNED TO PREVENT SHEET FLOWS FROM CROSSING MAJOR PEDESTRIAN WALKWAYS. CULVERTS TO BE INSTALLED AS REQUIRED.

Title

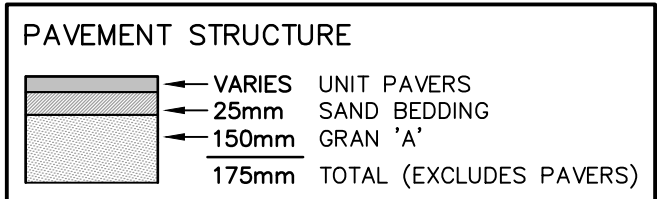
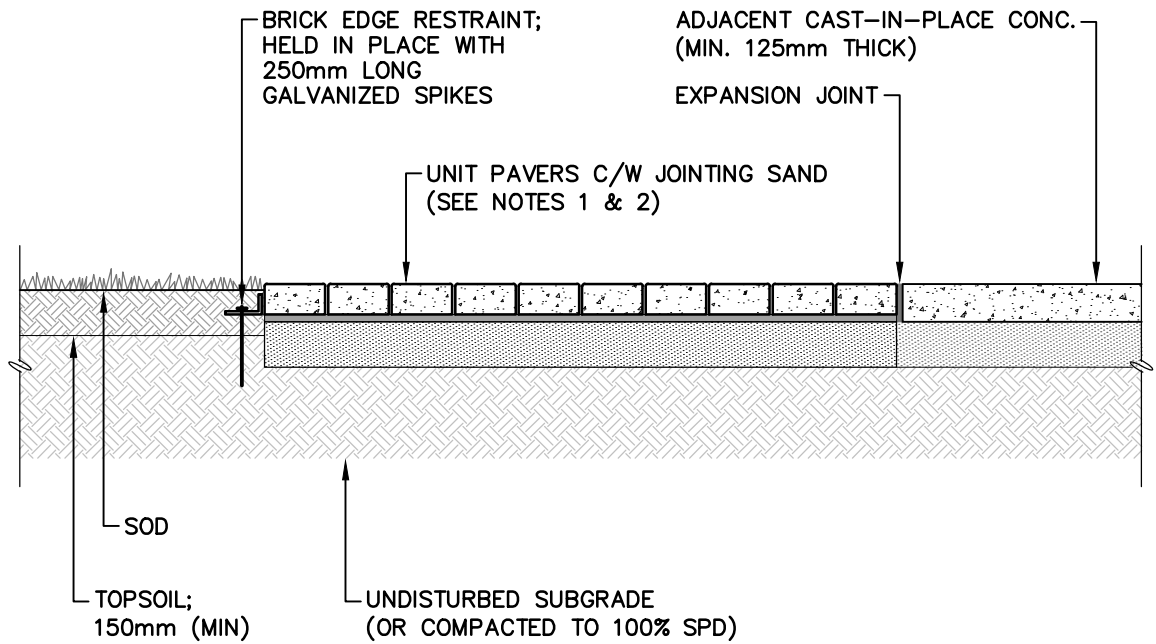
CONCRETE PAVING

Scale
1:50

Rev. Date
2024/SEP

Standard No.
09-01.05





NOTES:

1. REFER TO SPECIFICATIONS FOR INSTALLATION DETAILS.
2. REFER TO PLANS FOR COLOUR & PATTERN.
3. GRANULAR 'A' TO BE COMPACTED TO 100% SPD.

Title

UNIT PAVERS

Scale

1:25

Rev. Date

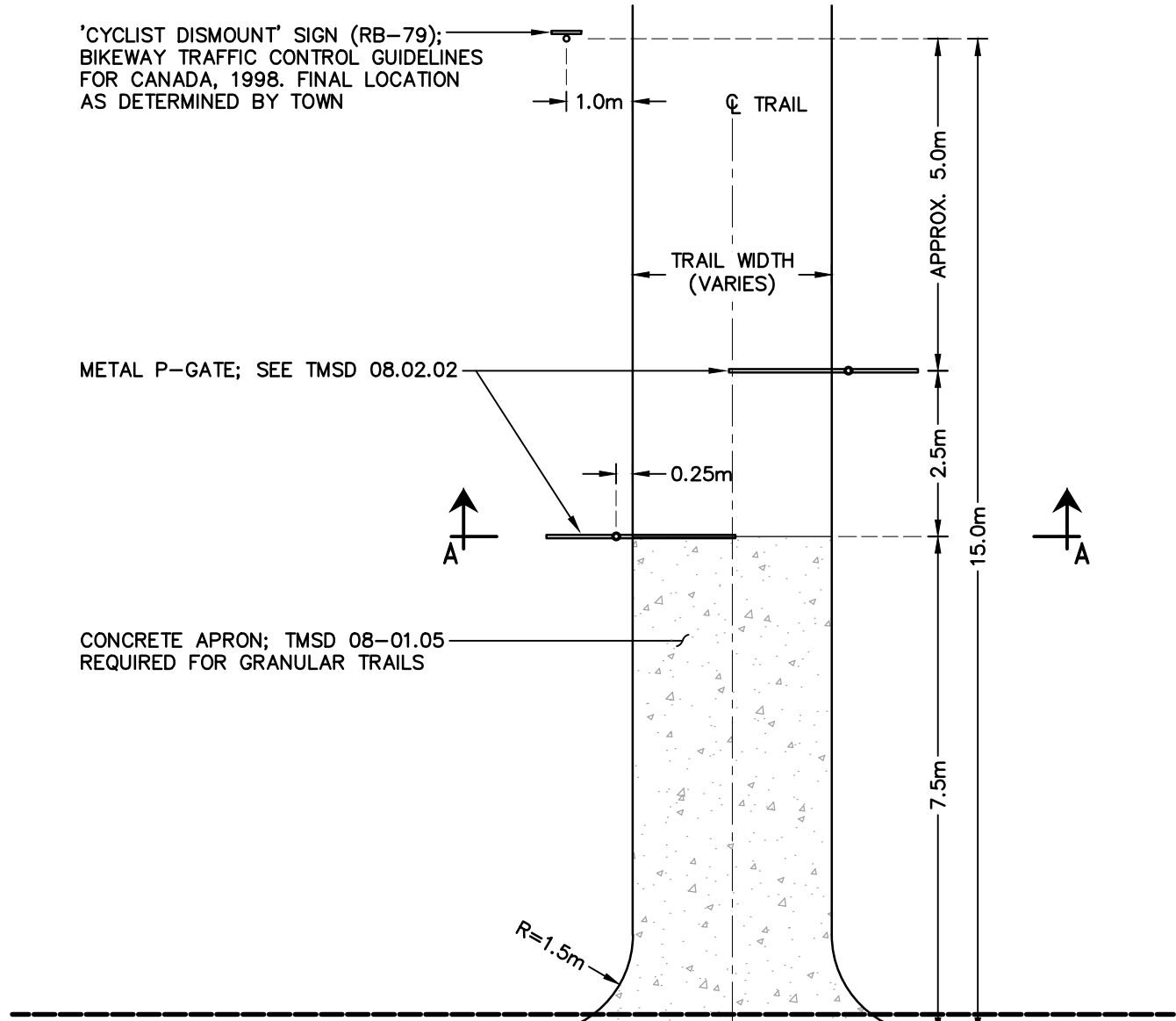
2024/SEP

Standard No.

09-01.06

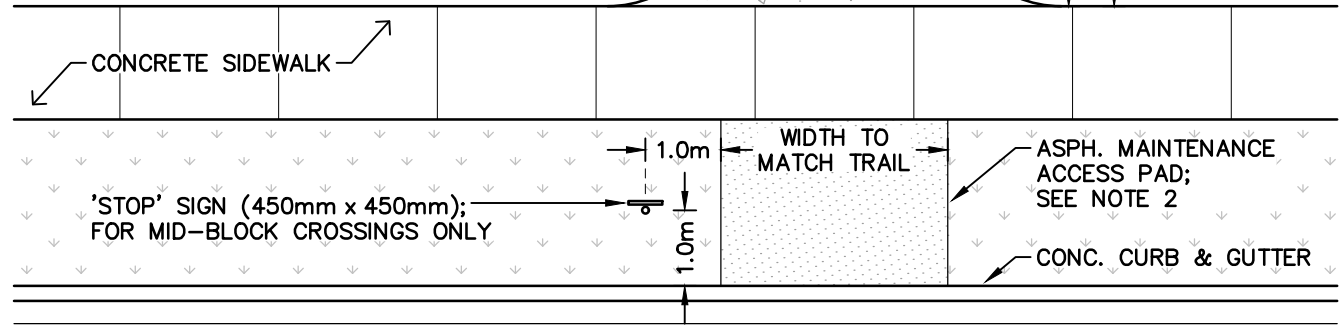


'CYCLIST DISMOUNT' SIGN (RB-79);
BIKEWAY TRAFFIC CONTROL GUIDELINES
FOR CANADA, 1998. FINAL LOCATION
AS DETERMINED BY TOWN



METAL P-GATE; SEE TMSD 08.02.02

CONCRETE APRON; TMSD 08-01.05
REQUIRED FOR GRANULAR TRAILS



NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TMSD 08-02.02.
2. MAINTENANCE ACCESS PAD TO BE CONCRETE C/W CURB DEPRESSION, DIRECTIONAL LINES, & TACTILE PLATES FOR MID-BLOCK CROSSINGS. (AT THE DISCRETION OF THE TOWN.)
3. CONTACT TOWN TO DETERMINE IF P-GATES ARE REQUIRED.

Title

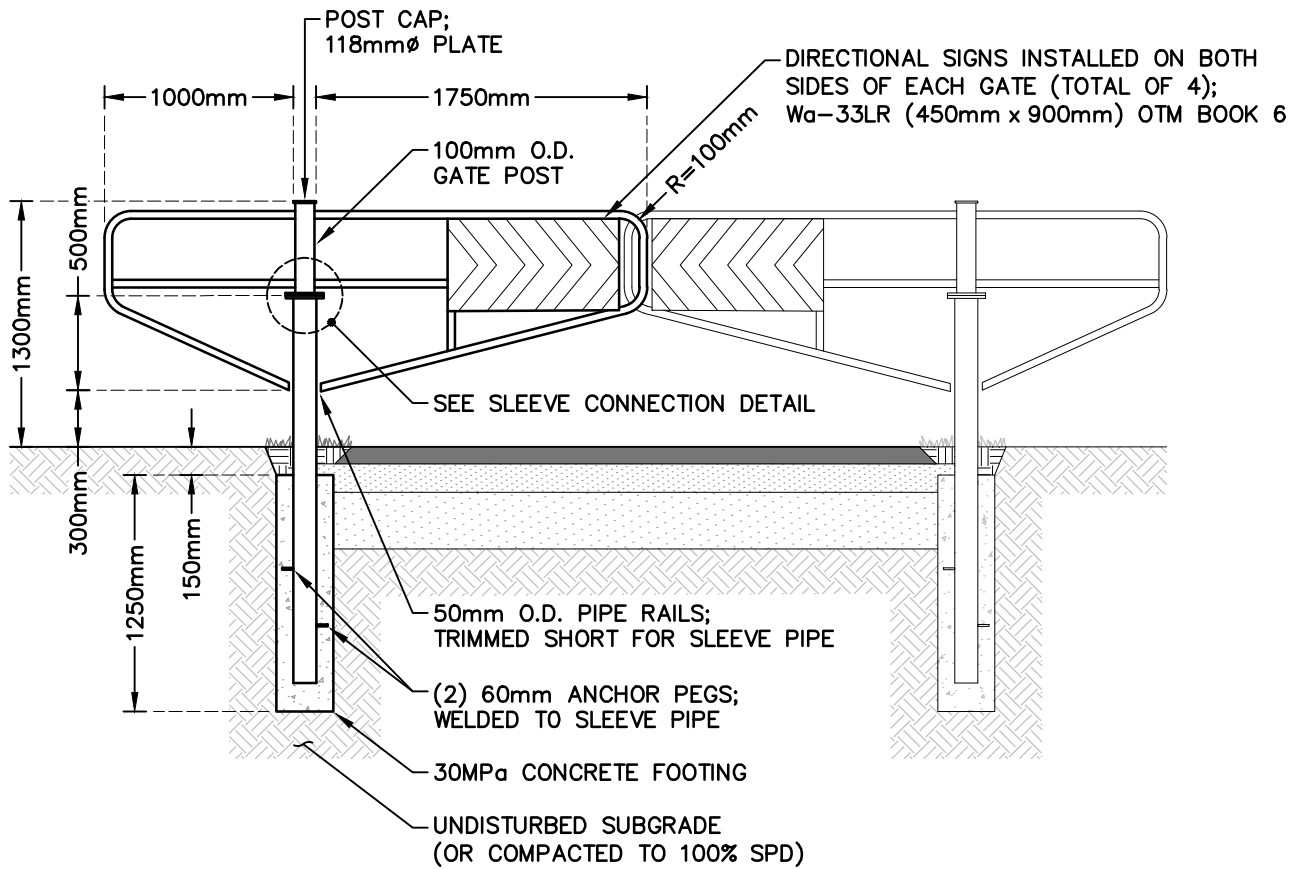
TRAIL ACCESS P-GATES (LAYOUT)

Scale **1:100**

Rev. Date **2024/SEP**

Standard No. **09-02.01**





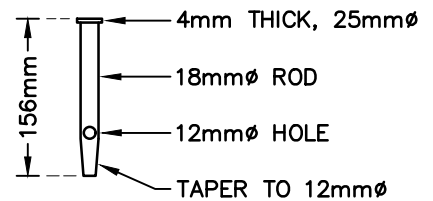
SECTION 'A'

SCALE: 1:40



SLEEVE CONNECTION DETAIL

SCALE: 1:20



PIN DETAIL

SCALE: 1:7.5

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TMSD 08-02.01.
2. ALL WELDS TO CSA W59-1989. GRIND SMOOTH ALL WELDS.
3. ALL STEEL GATE MATERIAL TO BE HOT-DIP GALVANIZED TO CSA-G164-M1981 AFTER FABRICATION. TOUCH-UP AS REQUIRED WITH ZINC BASED PAINT AFTER INSTALLATION.
4. ALL WELDING AND GALVANIZING DRIPS/SPLATTERS TO BE REMOVED.
5. ALL 50mm ϕ PIPE TO BE STD. SCHEDULE 40 NEW BUTT WELD PIPE.
6. GATE POST TO EXTEND A MIN. OF 1000mm INTO FOUNDATION SLEEVE PIPE.
7. PIN TO BE TETHERED TO SLEEVE PIPE WITH 300mm LONG GALVANIZED CHAIN, WELDED ON BOTH ENDS. ENSURE THAT PIN CAN BE INSERTED INTO FLANGES AND SECURED WITH PADLOCK.
8. INSTALLATION OF LOCKS WILL BE BY TOWN.
9. INSTALL REFLECTIVE BANDING NEAR TOP AND BOTTOM OF BOLLARDS. BANDING TO BE 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING 3M#4083-YELLOW-GREEN, CUT TO 100mm WIDTHS.
10. DISTURBED AREAS TO BE RESTORED WITH TOPSOIL & SOD.

Title

TRAIL ACCESS P-GATES (ELEVATION)

Scale

AS NOTED

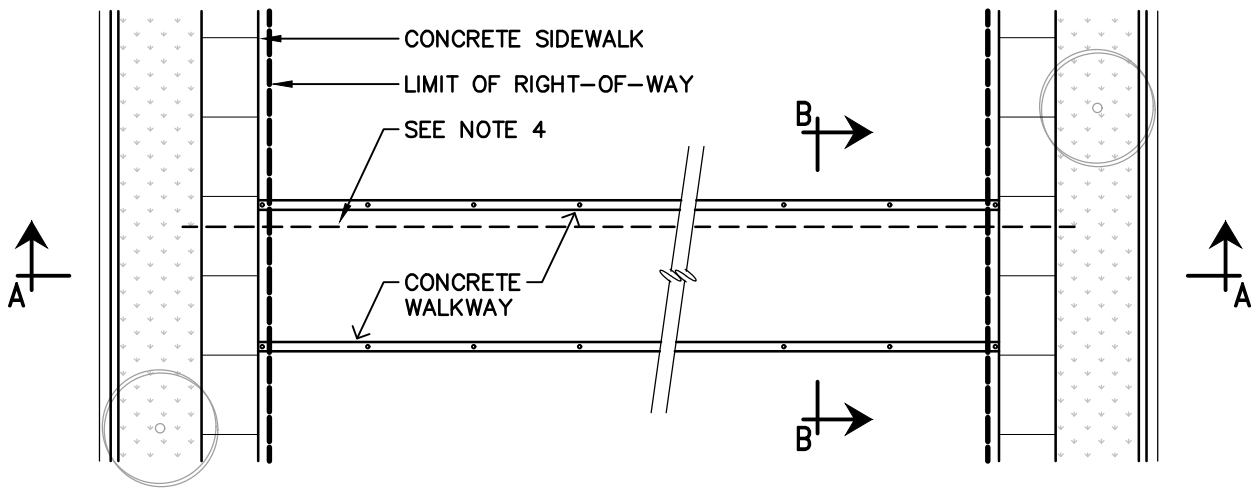
Rev. Date

2024/SEP

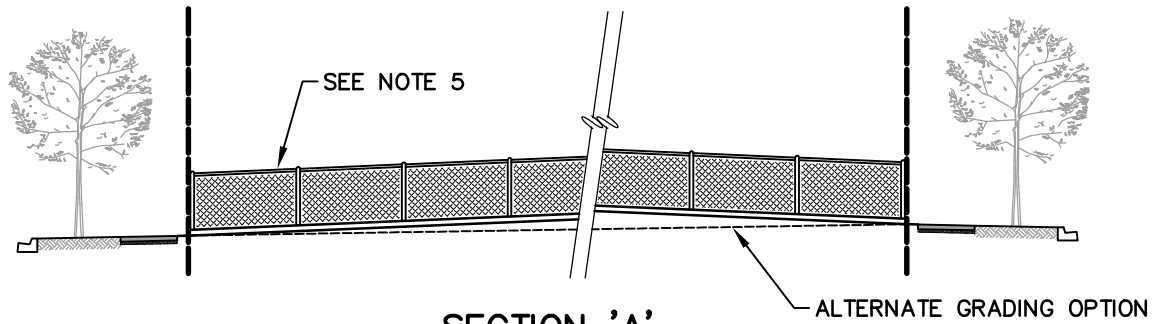
Standard No.

09-02.02

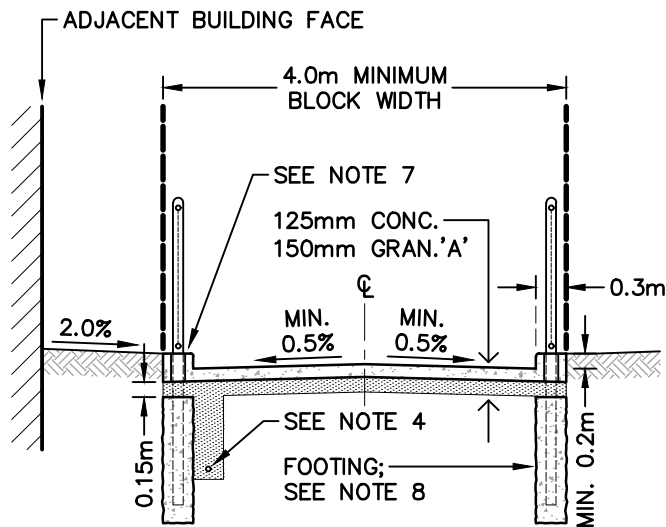




PLAN VIEW
SCALE: 1:200



SECTION 'A'
SCALE: 1:200



SECTION 'B'
SCALE: 1:75

NOTES:

1. LONGITUDINAL SLOPE OF WALKWAY SHALL BE 0.5% MIN., 5.0% MAX.
2. REFER TO OPSD 310.010 FOR EXPANSION JOINT DETAILS.
3. PRIOR TO CONSTRUCTION, A REVIEW IS REQUIRED TO ASSESS LIGHTING REQUIREMENTS.
4. 50mm POLYETHYLENE CONDUIT TO BE INSTALLED BENEATH WALKWAY.
5. FENCING TO BE 1.5m HIGH BLACK VINYL CHAIN-LINK. (TOWN STD. DWG. E-27)
6. WHERE BLOCK WIDTH IS GREATER THAN WALKWAY WIDTH, CHAIN-LINK FENCING IS TO BE SHIFTED TO 0.1m FROM BLOCK LIMITS.
7. SLEEVE SIDEWALK TO FENCE POST (PROVIDE 12mm JOINT SEPARATION) C/W EVAZOTE JOINT FILLER, OR APPROVED EQUAL.
8. FOOTING TO EXTEND A MIN. OF 1.2m BELOW FINISHED GRADE.
9. THIS DETAIL IS TO BE USED WHERE A WALKWAY CONNECTS TWO RIGHTS-OF-WAY. OTHER LOCATIONS ARE PER TOWN APPROVAL ONLY.

Title

**CONCRETE WALKWAY
(STREET TO STREET)**

Scale

AS NOTED

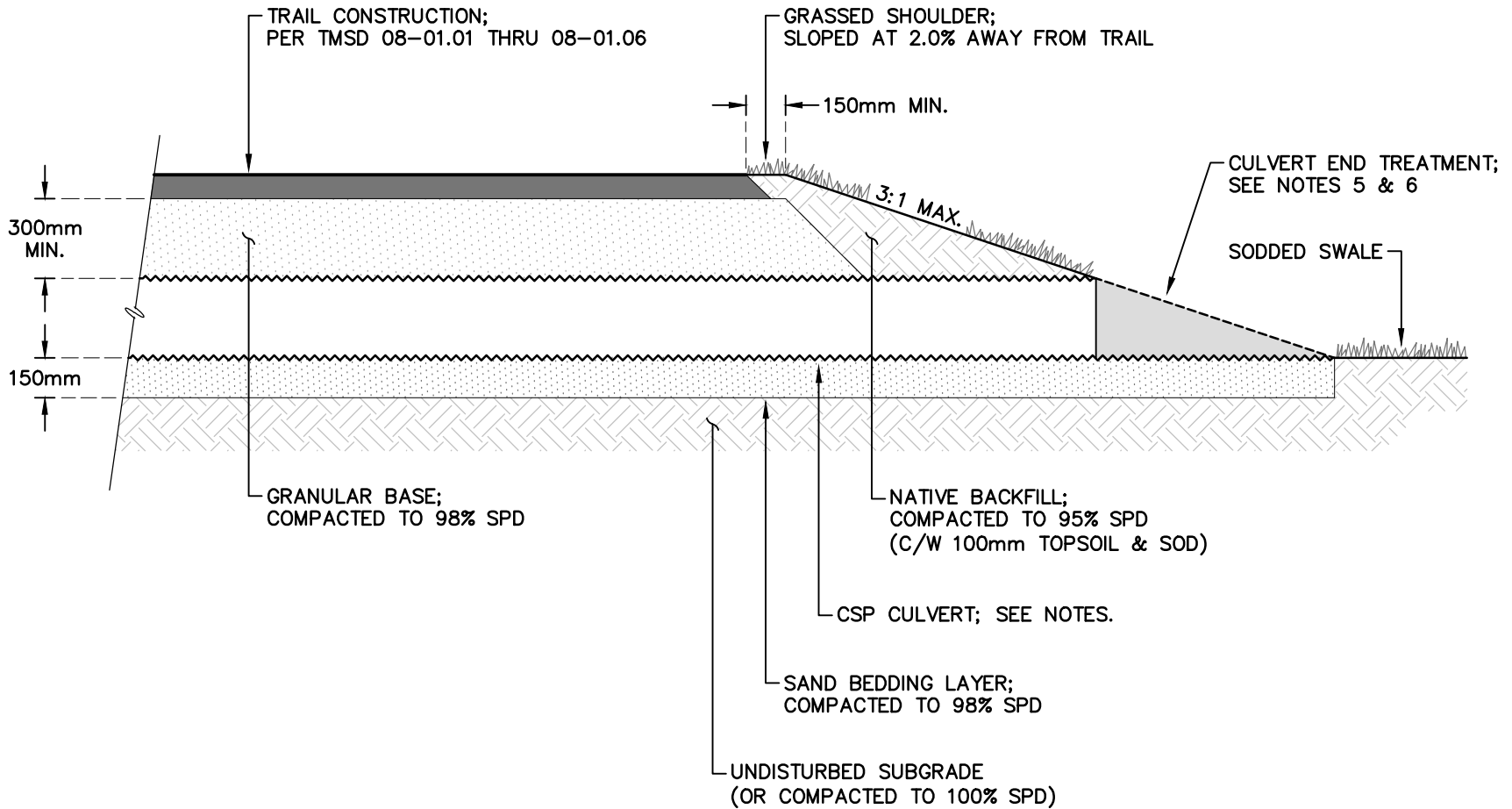
Rev. Date

2024/SEP

Standard No.

09-03.01





NOTES:

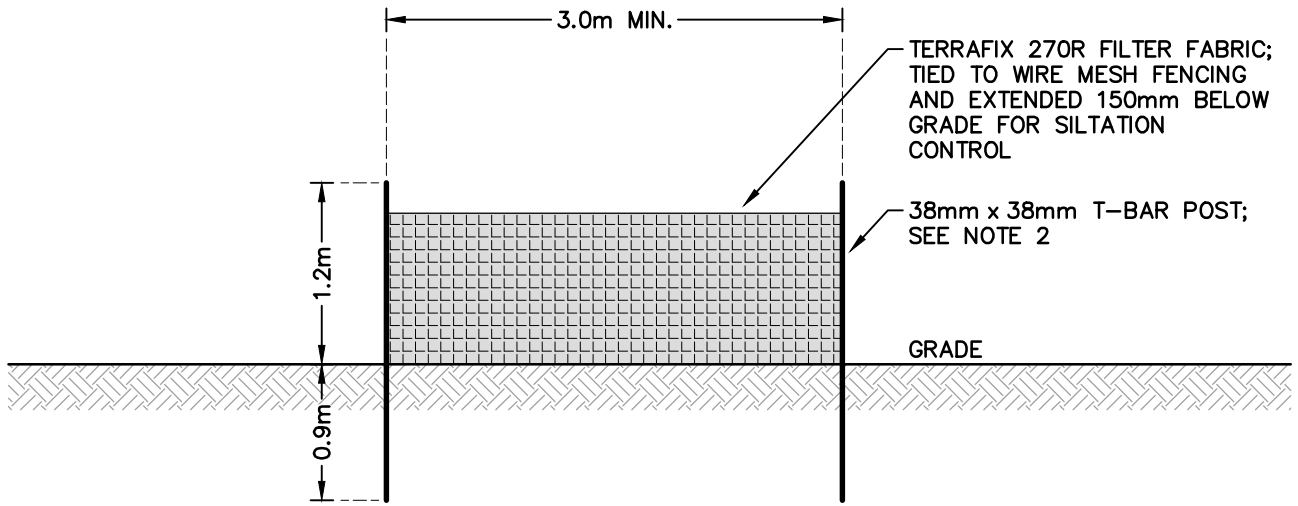
1. CORRUGATED STEEL PIPE TO BE GALVANIZED, 1.6mm THICK.
2. MINIMUM PIPE LENGTH TO BE 8.0m.
3. MINIMUM PIPE SLOPE TO BE 1.0%.
4. MINIMUM PIPE SIZE TO BE 300mm ϕ .
5. PIPE END TREATMENT (WHERE REQUIRED) SHALL BE GALVANIZED STEEL C/W RODENT GRATE.
6. RODENT GRATE SHALL BE PER DETAILED DESIGN DRAWINGS AND SPECIFICATIONS.

Title

CSP TRAIL CULVERT

Scale	1:25
Rev. Date	2024/SEP
Standard No.	09-04.01





ELEVATION



FILTER FABRIC BURIAL

NOTES:

1. FENCING IS TO BE MAINTAINED IN GOOD WORKING ORDER THROUGHOUT THE CONSTRUCTION PERIOD.
2. STEEL T-BARS TO BE SPACED 3.0m O/C MIN.
3. 'NO DUMPING' SIGN TO BE INCLUDED AS PER PLAN DRAWINGS.
4. SEE PLAN DRAWINGS FOR FENCE LOCATION.
5. APPROVAL TO BE OBTAINED FROM THE TOWN PRIOR TO THE REMOVAL OF TEMPORARY PROTECTION FENCING.

Title

**TEMPORARY
PROTECTION FENCING**

Scale

1: 50

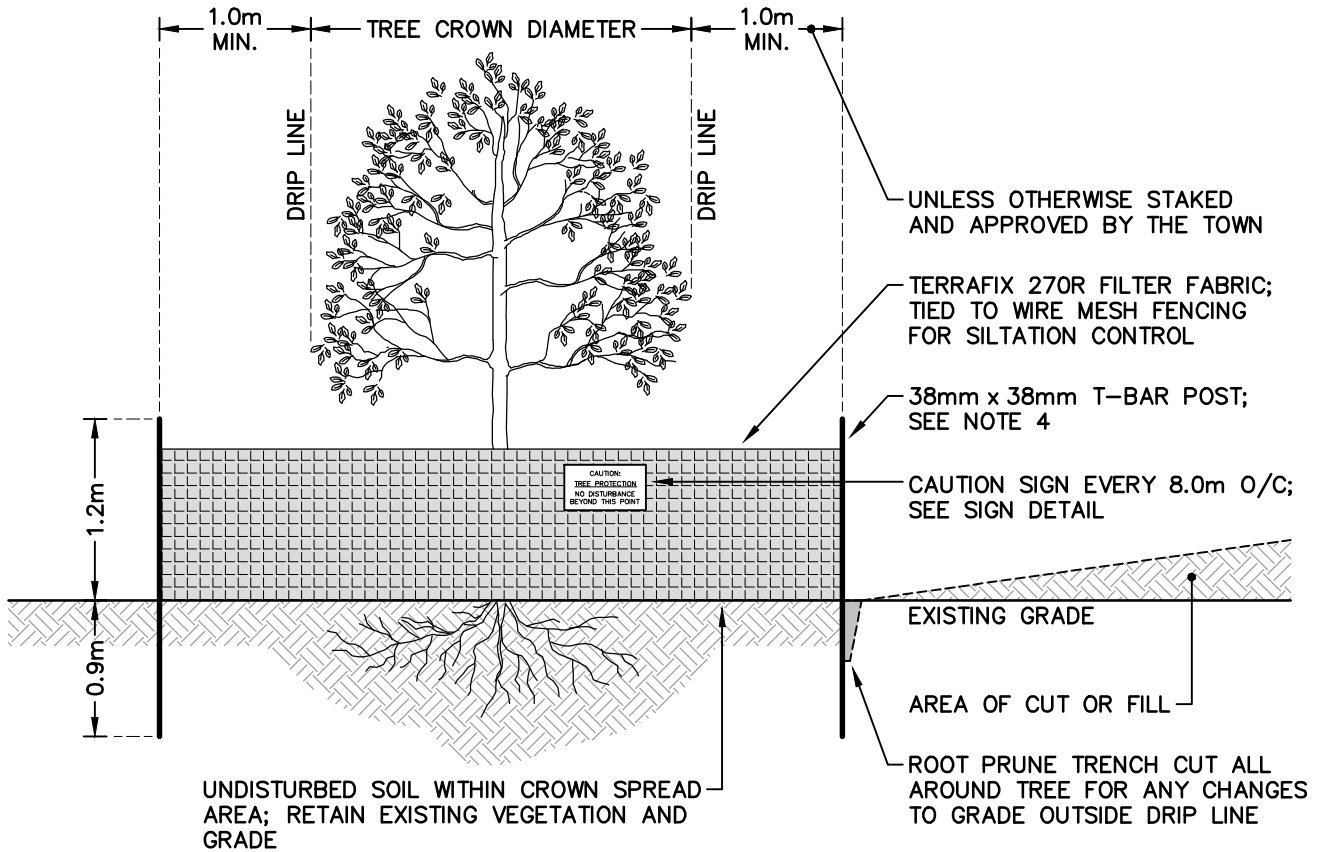
Rev. Date

2024/SEP

Standard No.

10-01.01





SIGN TO BE 400mm x 600mm WHITE GATOR BOARD (OR APPROVED EQ.)

CAUTION:
TREE PROTECTION
NO DISTURBANCE
BEYOND THIS POINT

SIGN DETAIL
SCALE: N.T.S.

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OPSD 220.010.
2. TREE PROTECTION FENCING AND ASSOCIATED FILTER FABRIC IS TO BE MAINTAINED IN GOOD WORKING ORDER THROUGHOUT CONSTRUCTION PERIOD, UNTIL APPROVAL TO REMOVE THE FENCING IS OBTAINED FROM THE TOWN OF MILTON.
3. EXISTING TREES SHALL BE PROPERLY PROTECTED AT OR OUTSIDE OF THE DRIP LINE WITH WIRE MESH FENCING AS PER THE APPROVED LANDSCAPE PLAN UNTIL SUBSTANTIAL PERFORMANCE OR REPLACEMENT WITH A PERMANENT FENCE.
4. STEEL T-BARS TO BE SPACED 2.5m O/C MIN.
5. EXISTING GRADE WITHIN DRIP LINE OF ALL TREES IS TO BE PRESERVED.
6. PRUNE DEAD WOOD ONLY AS DIRECTED BY THE TOWN. DO NOT PRUNE LEADERS.
7. WATERING AND FERTILIZING PROGRAM SHALL BE MAINTAINED TO THE SATISFACTION OF THE TOWN.
8. THE COST OF REPLACING DEAD AND/OR SEVERELY DAMAGED TREES, AS DETERMINED BY THE TOWN, SHALL BE BORNE BY THE DEVELOPER AND/OR GENERAL CONTRACTOR. THE SPECIES AND SIZE(S) MUST BE APPROVED BY THE TOWN.
9. ENSURE POSITIVE DRAINAGE AWAY FROM THE FENCED AREA.
10. NO STORAGE OF MATERIALS OR GRADE CHANGE IS PERMITTED WITHIN THE FENCED AREA.

Title

TREE PROTECTION FENCING

Scale

1:50

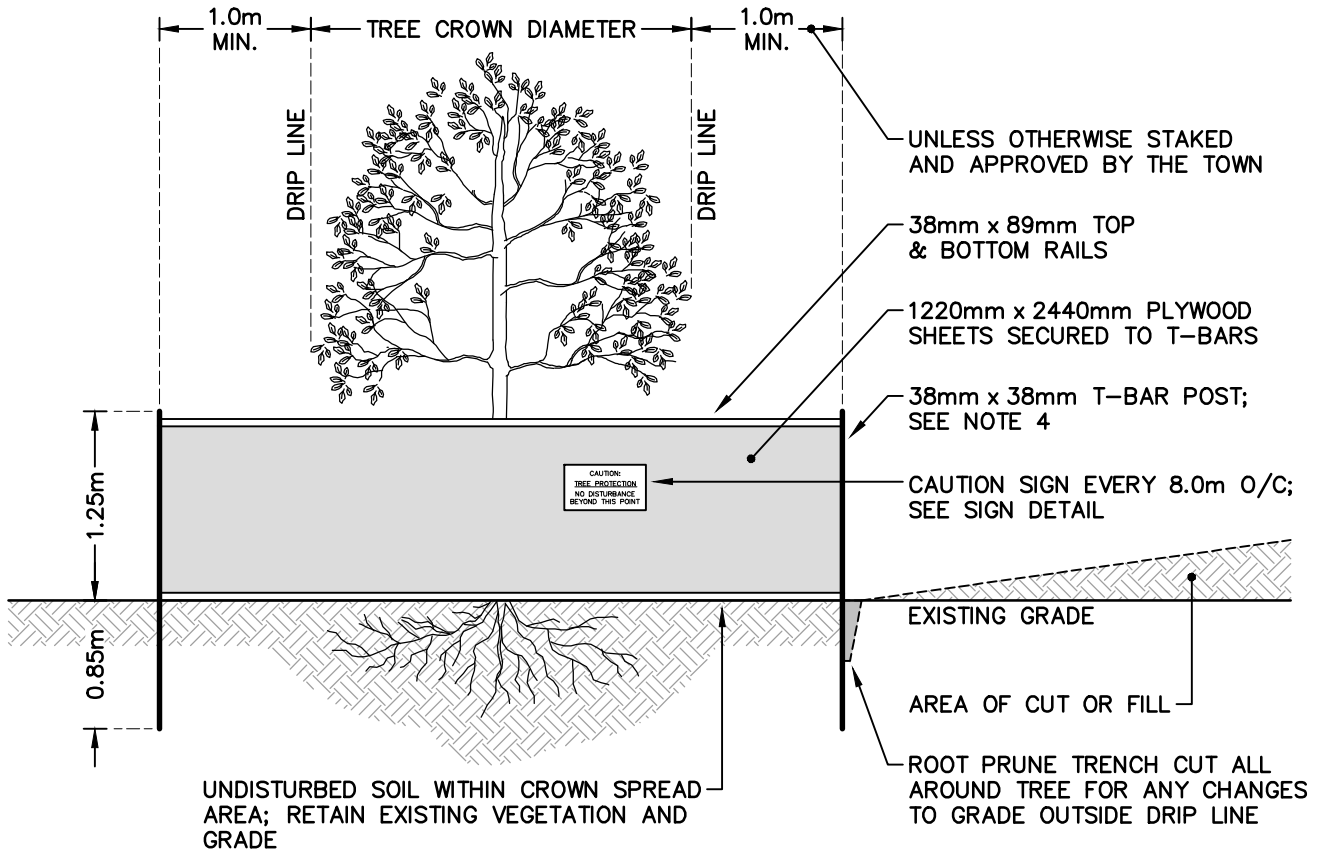
Rev. Date

2024/SEP

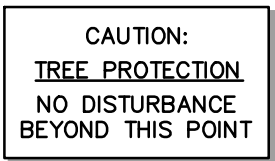
Standard No.

10-01.02





SIGN TO BE 400mm x 600mm WHITE GATOR BOARD (OR APPROVED EQ.)



SIGN DETAIL
SCALE: N.T.S.

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OPSD 220.010.
2. TREE PROTECTION HOARDING IS TO BE MAINTAINED IN GOOD WORKING ORDER THROUGHOUT CONSTRUCTION PERIOD, UNTIL APPROVAL TO REMOVE THE FENCING IS OBTAINED FROM THE TOWN OF MILTON.
3. EXISTING TREES SHALL BE PROPERLY PROTECTED WITHIN THE DRIP LINE WITH HOARDING AS PER THE APPROVED LANDSCAPE PLAN UNTIL SUBSTANTIAL PERFORMANCE OR REPLACEMENT WITH A PERMANENT FENCE.
4. STEEL T-BARS TO BE SPACED 2.5m O/C MIN.
5. EXISTING GRADE WITHIN DRIP LINE OF ALL TREES IS TO BE PRESERVED.
6. PRUNE DEAD WOOD ONLY AS DIRECTED BY THE TOWN. DO NOT PRUNE LEADERS.
7. WATERING AND FERTILIZING PROGRAM SHALL BE MAINTAINED TO THE SATISFACTION OF THE TOWN.
8. THE COST OF REPLACING DEAD AND/OR SEVERELY DAMAGED TREES, AS DETERMINED BY THE TOWN, SHALL BE BORNE BY THE DEVELOPER AND/OR GENERAL CONTRACTOR. THE SPECIES AND SIZE(S) MUST BE APPROVED BY THE TOWN.
9. ENSURE POSITIVE DRAINAGE AWAY FROM THE HOARDING AREA.
10. NO STORAGE OF MATERIALS OR GRADE CHANGE IS PERMITTED WITHIN THE HOARDING AREA.

Title

TREE PROTECTION HOARDING

Scale

1:50

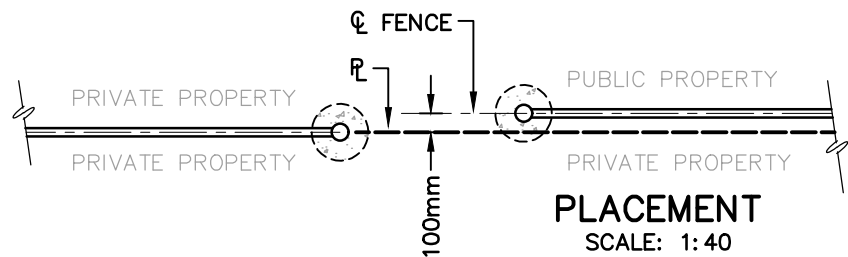
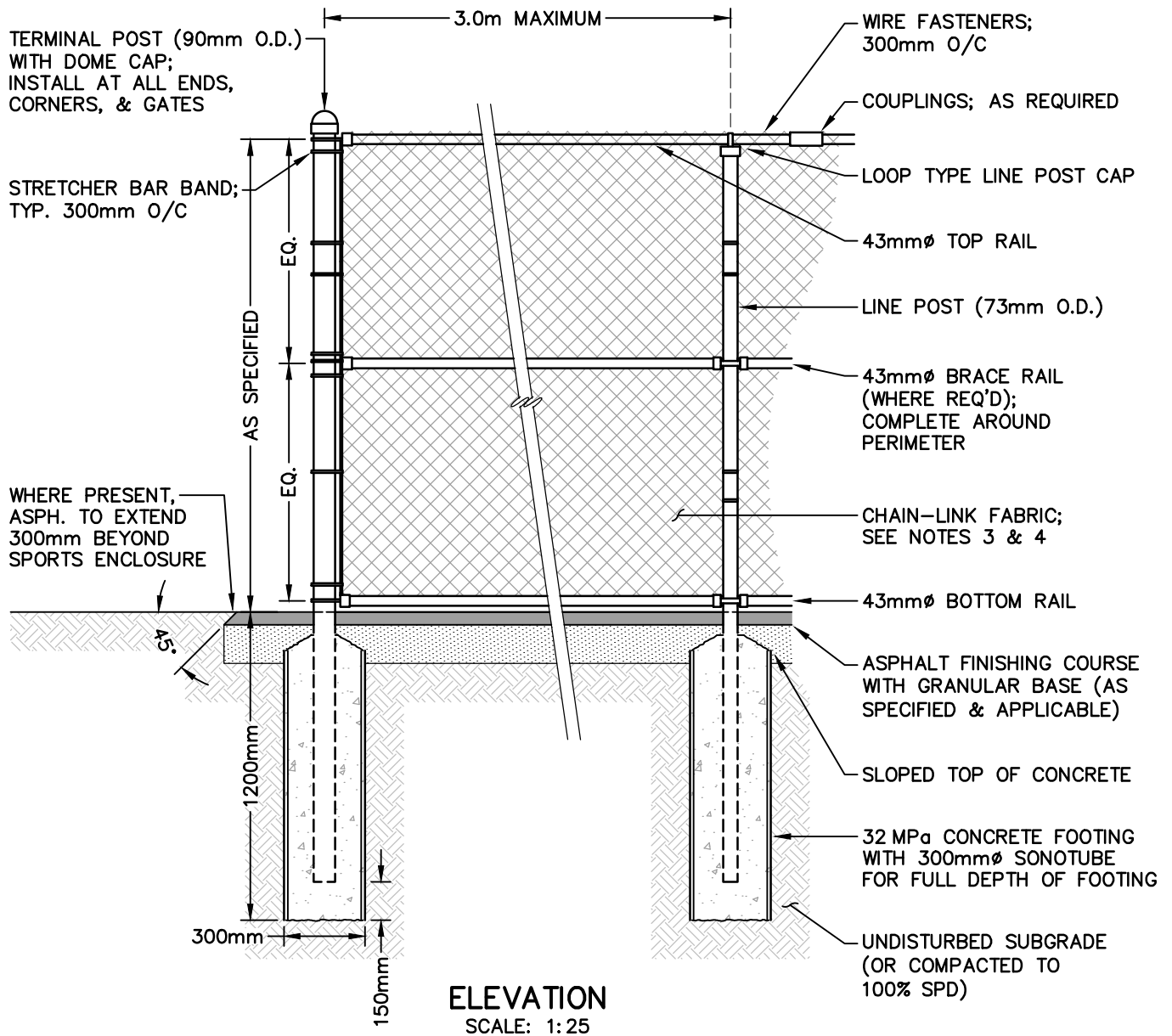
Rev. Date

2024/SEP

Standard No.

10-01.03





NOTES:

1. REFER TO TMSD 09-02.02 FOR GATES.
2. CHAIN-LINK FENCE TO BE BLACK VINYL COATED 38mm WOVEN MESH OF 3.75mm (9 GAUGE GALVANIZED CORE WIRE + BLACK VINYL COATING) KNUCKLED AT TOP & BOTTOM.
3. FOR SPORTS ENCLOSURES CHAIN-LINK MESH TO BE NO MORE THAN 25mm ABOVE FINISHED GRADE.
4. ALL MATERIAL (INCLUDING HARDWARE) SHALL BE GALVANIZED AND FACTORY COATED BLACK.

Title

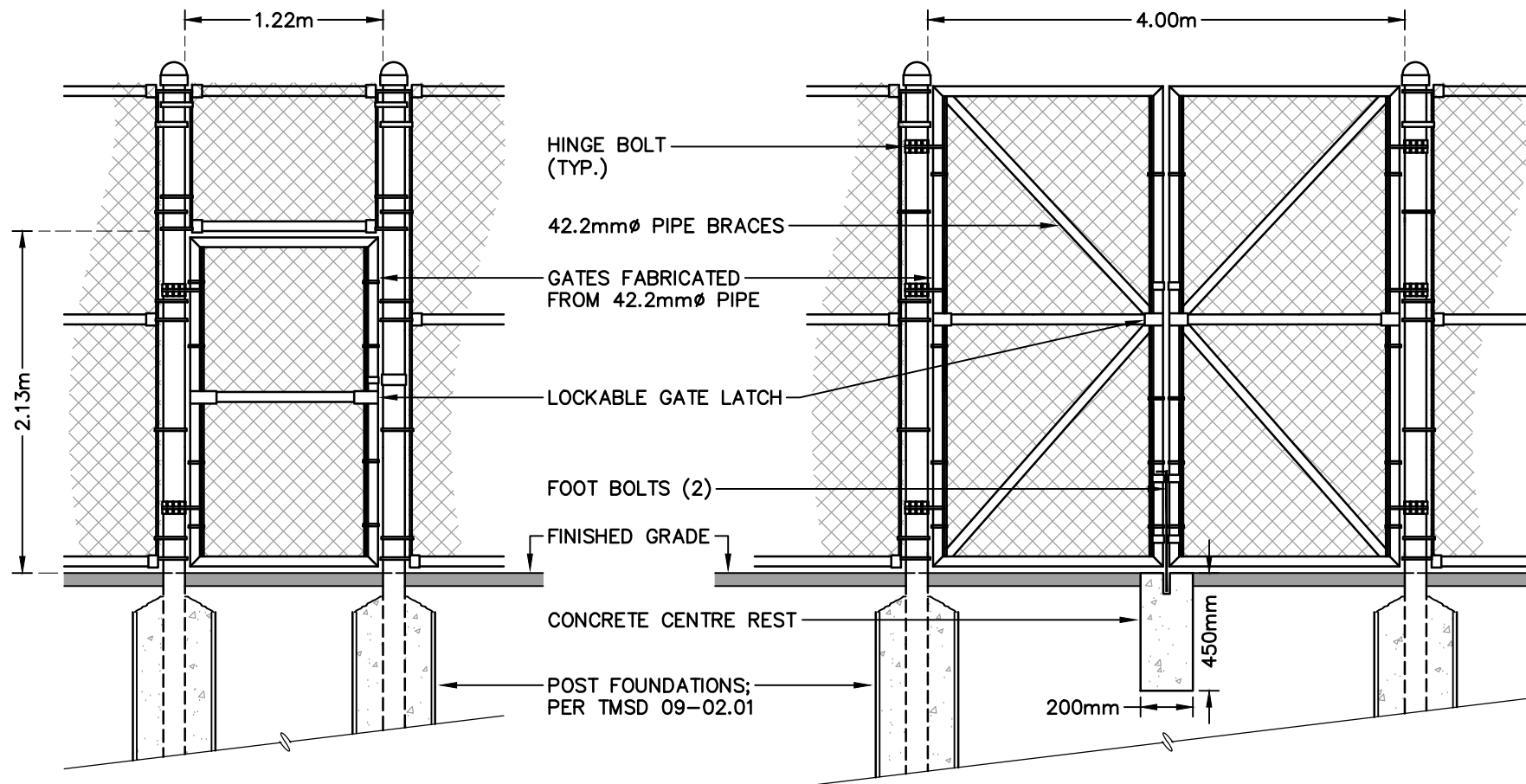
CHAIN-LINK FENCING

Scale
AS NOTED

Rev. Date
2024/SEP

Standard No.
10-02.01





PEDESTRIAN ACCESS GATE

MAINTENANCE ACCESS GATE

NOTE:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TMSD 09-02.01.

Title

CHAIN-LINK FENCING ACCESS GATES

Scale

N.T.S.

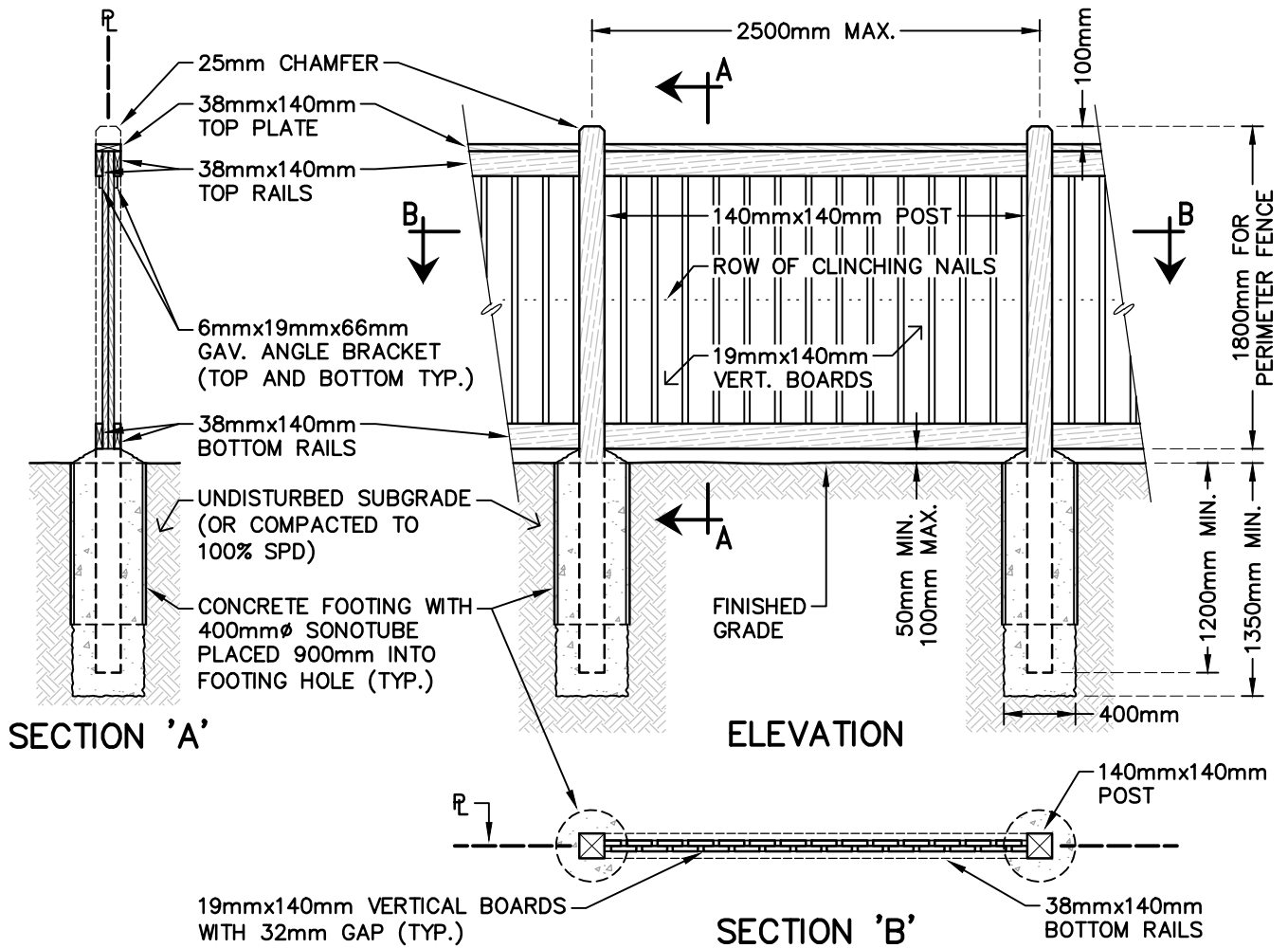
Rev. Date

2024/SEP

Standard No.

10-02.02





NOTES:

1. ALL MATERIALS, COMPONENTS, AND CRAFTSMANSHIP SHALL CONFORM TO THE ONTARIO BUILDING CODE AND ALL APPLICABLE LOCAL BY-LAWS.
2. ALL WOOD SHALL BE PRESSURE TREATED SPF OR SELECT WESTERN CEDAR. ALL MEMBERS SHALL BE FREE OF WANE AND BARK POCKETS. ALL TORN GRAIN SHALL BE ELIMINATED BY SANDING AND PLANING. MEMBERS EXHIBITING MODERATE TO HEAVY KNOTS SHALL BE WELL DISTRIBUTED THROUGHOUT THE INSTALLATION. PANEL MEMBERS SHALL BE SELECT KNOTTY (NLGA 204A).
3. ALL WOOD SHALL BEAR THE GRADING STAMP OF A CLS CERTIFIED COMPANY.
4. MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 19% AT THE TIME OF CONSTRUCTION.
5. BOTTOM SKIRT BOARDS TO BE TREATED WITH CCA PRESERVATIVE TO A RETENTION OF 4.0kg/C.M.
6. CLEAR STAIN FOR WOOD FENCE SHALL CONSIST OF A BASE OF BLENDED RESINS AND OILS IN A WATER SUSPENSION. SUSPENDED SOLIDS WHICH ARE NOT LESS THAN 21% AND NOT GREATER THAN 31% BY VOLUME. VOLATILE ORGANIC COMPOUNDS (VOC) WHICH ARE NOT IN EXCESS OF 350g/L IN ACCORDANCE WITH ASTM-2369. STAIN APPLICATION: APPLY 2 COATS ON CLEAN DRY WOOD AT 5°C TO 21°C.
7. NAILS SHALL BE GALVANIZED ARDOX CONFORMING TO CSA STANDARDS BILL.
8. LAG SCREWS AND BOLTS SHALL BE GALVANIZED AND CONFORM TO ASTM-A307.
9. ALL GALVANIZING SHALL BE HOT DIP IN CONFORMANCE WITH CSA STANDARD G164.
10. COUNTER-SINK ALL LAG SCREWS AND BOLTS AND DRIVE ALL NAIL HEADS BELOW SURFACE OF WOOD. USE SUFFICIENT SIZE AND QUANTITY OF NAILS TO ENSURE A STABLE AND SECURE STRUCTURE.
11. MAINTAIN FINISHED GRADE PARALLEL WITH BOTTOM OF FENCE MEMBER.
12. FENCE PANELS SHALL BE STEPPED A MAXIMUM OF 150mm AS REQUIRED BY GRADE CONDITIONS.
13. ALL LUMBER SIZES ARE ACTUAL (RATHER THAN NOMINAL).
14. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30MPa AT 28 DAYS WITH 5% TO 7% AIR ENTRAINMENT.

Title

WOOD PRIVACY FENCING

Scale

1: 40

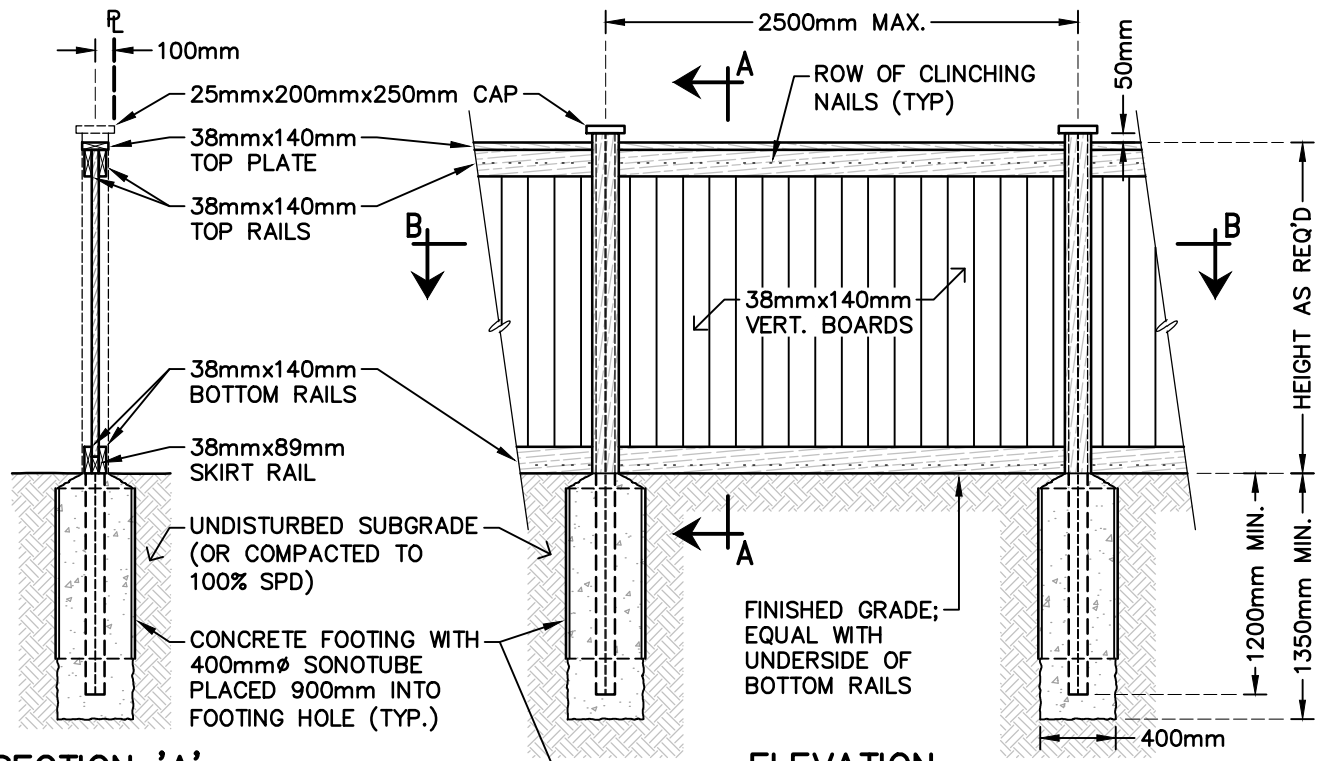
Rev. Date

2024/SEP

Standard No.

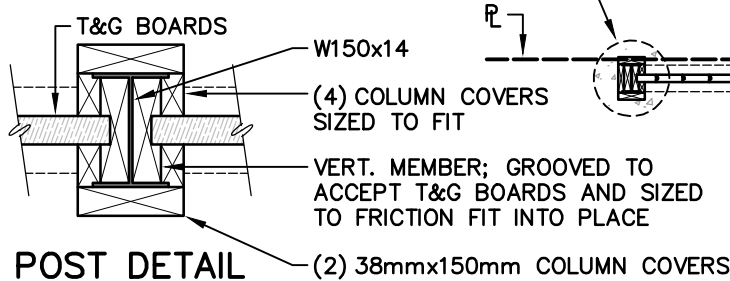
10-03.01





SECTION 'A'

ELEVATION



POST DETAIL

SECTION 'B'

NOTES:

1. ALL MATERIALS, COMPONENTS, AND CRAFTSMANSHIP SHALL CONFORM TO THE ONTARIO BUILDING CODE AND ALL APPLICABLE LOCAL BY-LAWS.
2. METAL POSTS TO BE GALVANIZED W150x14 MEMBERS FACTORY CUT/MANUFACTURED TO LENGTH.
3. ALL WOOD SHALL BE No. 1 GRADE WESTERN CEDAR, SELECTED FOR GOOD APPEARANCE AND FREE OF WANE AND BARK POCKETS. ALL TORN GRAIN SHALL BE ELIMINATED BY SANDING AND PLANING. MEMBERS EXHIBING MODERATE TO HEAVY KNOTS SHALL BE WELL DISTRIBUTED THROUGHOUT THE INSTALLATION.
4. FENCE BOARDS SHALL BE TONGUE & GROOVE SELECT (SOUND) TIGHT KNOT NGLA PATTERN 18-(200) MODIFIED 54mm (2 1/8") DRESSED WITH BEVELED EDGE ON BOTH SIDES.
5. RAILS & TOP PLATE TO BE DRESSED TO PATTERN. GRADE TO BE HGLA 1318 STRUCTURAL POST & TIMBER.
6. FINISH ALL WOOD WITH CLEAR STAIN. APPLICATION: APPLY 2 COATS ON CLEAN DRY WOOD AT 5°C TO 21°C.
7. ALL FASTENERS SHALL BE SCREWS OR NAILS PENETRATING EACH BOARD BY A MINIMUM OF 15mm.
8. COUNTER-SINK ALL SCREWS AND DRIVE ALL NAIL HEADS BELOW SURFACE OF WOOD. USE SUFFICIENT SIZE AND QUANTITY OF NAILS TO ENSURE A STABLE AND SECURE STRUCTURE.
9. MAINTAIN FINISHED GRADE PARALLEL WITH BOTTOM OF FENCE MEMBER.
10. FENCE PANELS SHALL BE STEPPED A MAXIMUM OF 150mm AS REQUIRED BY GRADE CONDITIONS.
11. ALL LUMBER SIZES SHOWN ARE ACTUAL (RATHER THAN NOMINAL).
12. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30MPa AT 28 DAYS WITH 5% TO 7% AIR ENTRAINMENT.

Title

**WOOD ACOUSTIC FENCING
(WITH METAL POST)**

Scale

1:40

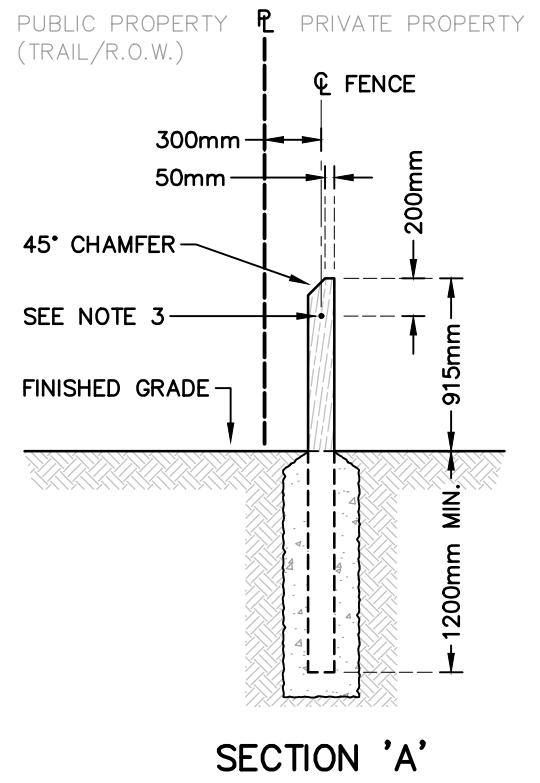
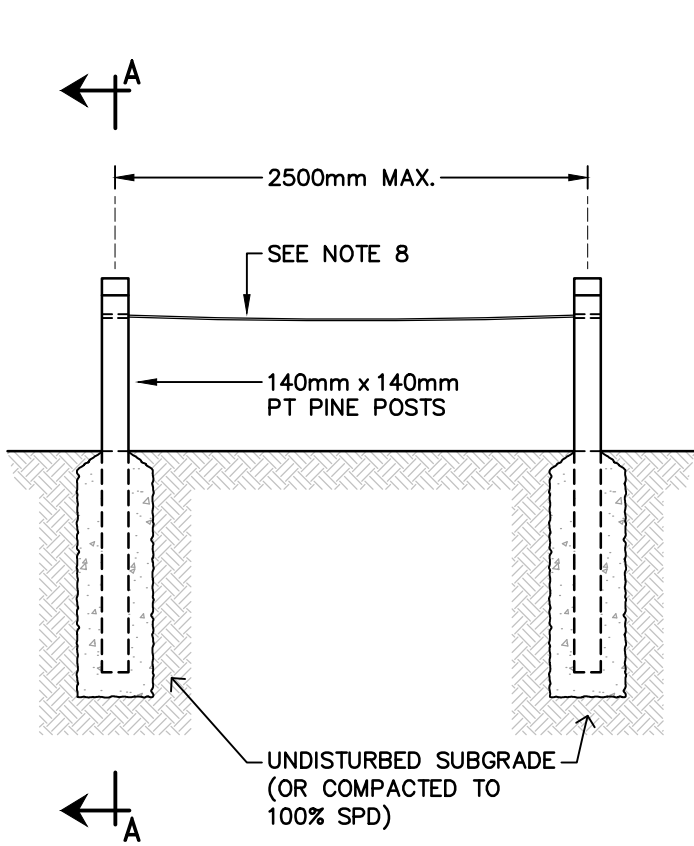
Rev. Date

2024/SEP

Standard No.

10-03.02





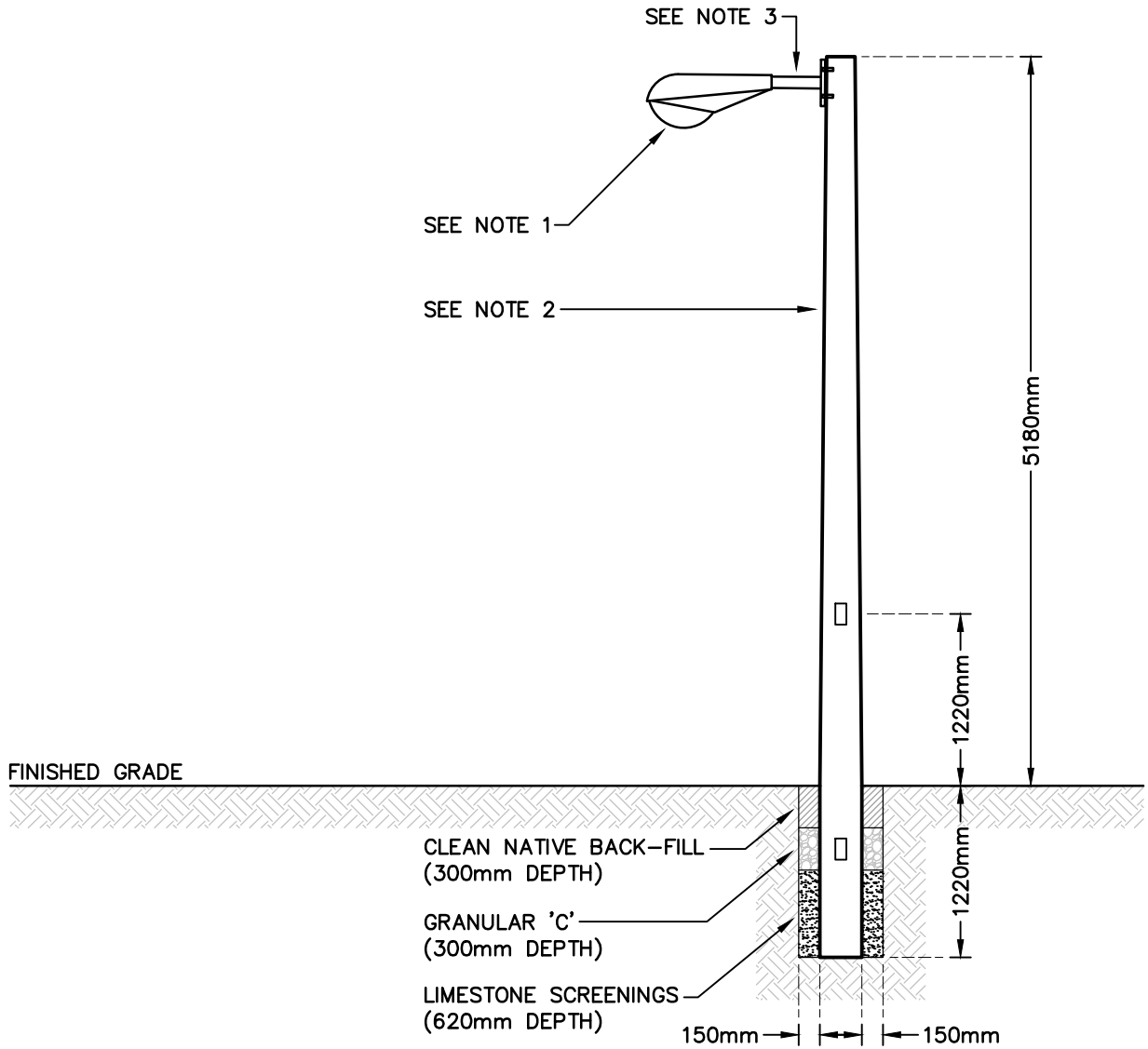
NOTES:

1. CABLE SHALL CONFORM TO THE REQUIREMENT OF CSA STANDARD G12 FOR GRADE 110 STEEL WIRE STRAND, HOT ZINC COATED OR CLASS 'A' ELECTRO ZINC COATED. CABLE SHALL BE 13mm ϕ , 7-WIRE STRAND, WEIGHING APPROXIMATELY 231kg/305m, WITH A MINIMUM BREAKING STRENGTH OF 7076kg.
2. METAL STRAPS SHALL BE 50mm WIDE, GALVANIZED TO CSA STANDARD G164.
3. 20mm ϕ DRILLED HOLE FOR CABLE, FASTEN CABLE TO POSTS WITH 19mm x 75mm No. 3 GAUGE STAPLES, PROVIDE SPACERS OF 12 GAUGE MILD STEEL.
4. FASTEN METAL STRAPS TO POSTS WITH GALVANIZED NAILS.
5. STAPLES, SPACERS, AND NAILS TO BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH CSA STANDARD G164.
6. SET ALL POSTS LEVEL AND PLUMB TO EACH OTHER.
7. STAPLE THE CABLE TO POSTS, FIRMLY SECURE CABLE ENDS WITH TENSION BOLT FOR END FITTING, WHICH SHALL BE SAE 1035 HOT ROLLED FINE GRAINED STEEL.
8. CABLES TO BE TENSIONED SUCH THAT THE SAG BETWEEN POSTS DOES NOT EXCEED 10mm.
9. INSTALL REFLECTIVE BANDING NEAR TOP AND BOTTOM OF POSTS. BANDING TO BE 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING 3M#4083-YELLOW-GREEN, CUT TO 100mm WIDTHS.
10. CONTACT LAND OWNER PRIOR TO COMMENCEMENT OF ANY WORK.
11. ALL EXISTING UTILITIES TO BE LOCATED AND STAKED IN ACCORDANCE WITH LAND OWNER.
12. POST LOCATIONS TO BE STAKED AND APPROVED BY LAND OWNER PRIOR TO DIGGING.
13. POST HOLES IN CLOSE PROXIMITY TO UTILITIES ARE TO BE HAND DUG.

POST & CABLE FENCING	Scale 1:40	
	Rev. Date 2024/SEP	
	Standard No. 10-04.01	

NOTES:

1. 35-44 WATT LED Nxt - LITE 16S SERIES LUMINAIRE.
2. 6.40m ROUND CONCRETE POLE - CLASS 'A'.
3. 0.30m STRAIGHT BRACKET.
4. FOR MATERIAL SPECIFICATIONS, CONTACT: DEVELOPMENT SERVICES - MANAGER OF TRAFFIC.



Title

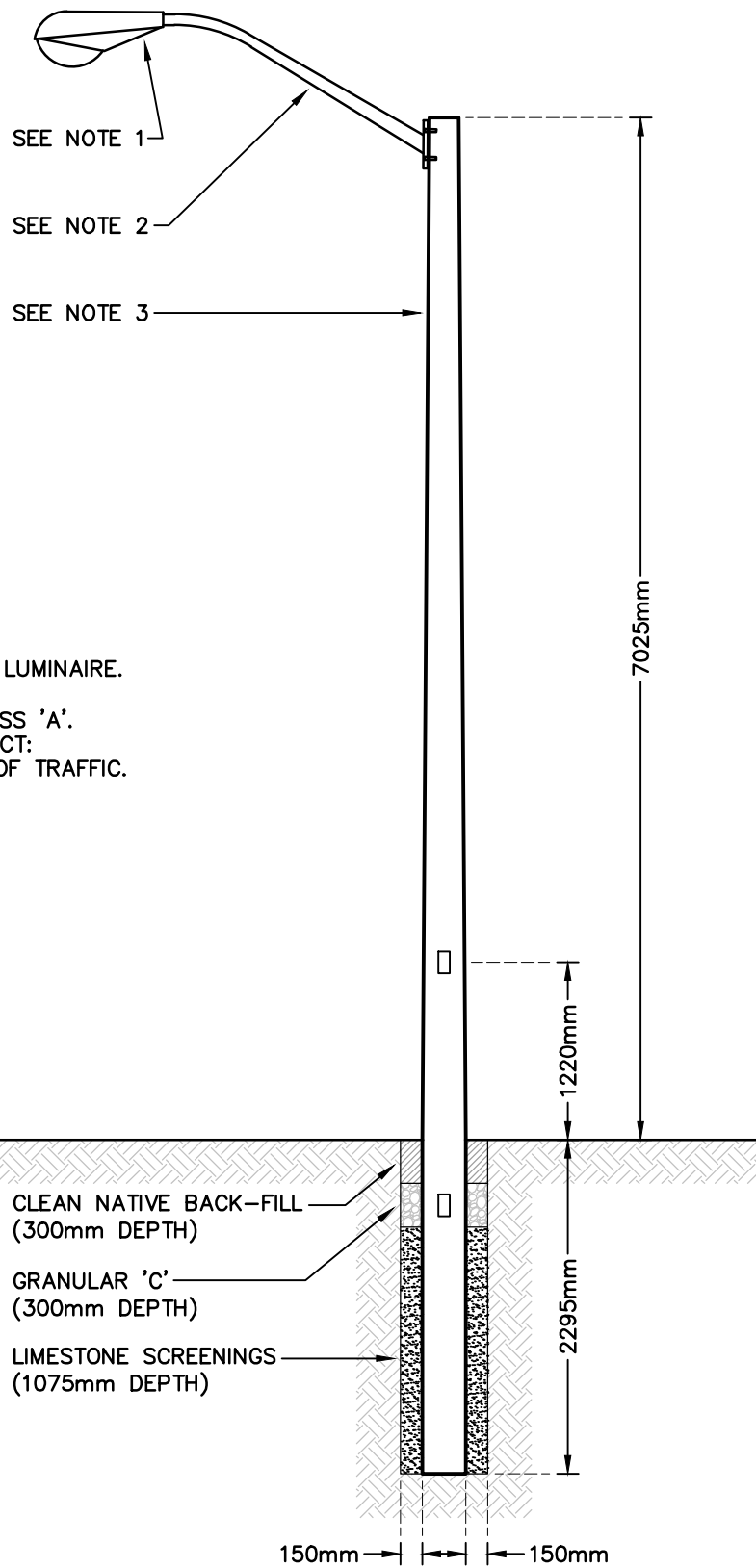
**LANEWAY LIGHT
(35-44 WATT LED
ON 6.40m POLE)**

Scale 1:50

Rev. Date 2024/SEP

Standard No. 11-01.01





NOTES:

1. 55 WATT LED NxT – LITE 16S SERIES LUMINAIRE.
2. 1.80m TAPERED ELLIPTICAL BRACKET.
3. 8.70m ROUND CONCRETE POLE – CLASS 'A'.
4. FOR MATERIAL SPECIFICATIONS, CONTACT:
DEVELOPMENT SERVICES – MANAGER OF TRAFFIC.

Title

**STREET LIGHT
(55 WATT LED
ON 8.70m POLE)**

Scale

1:50

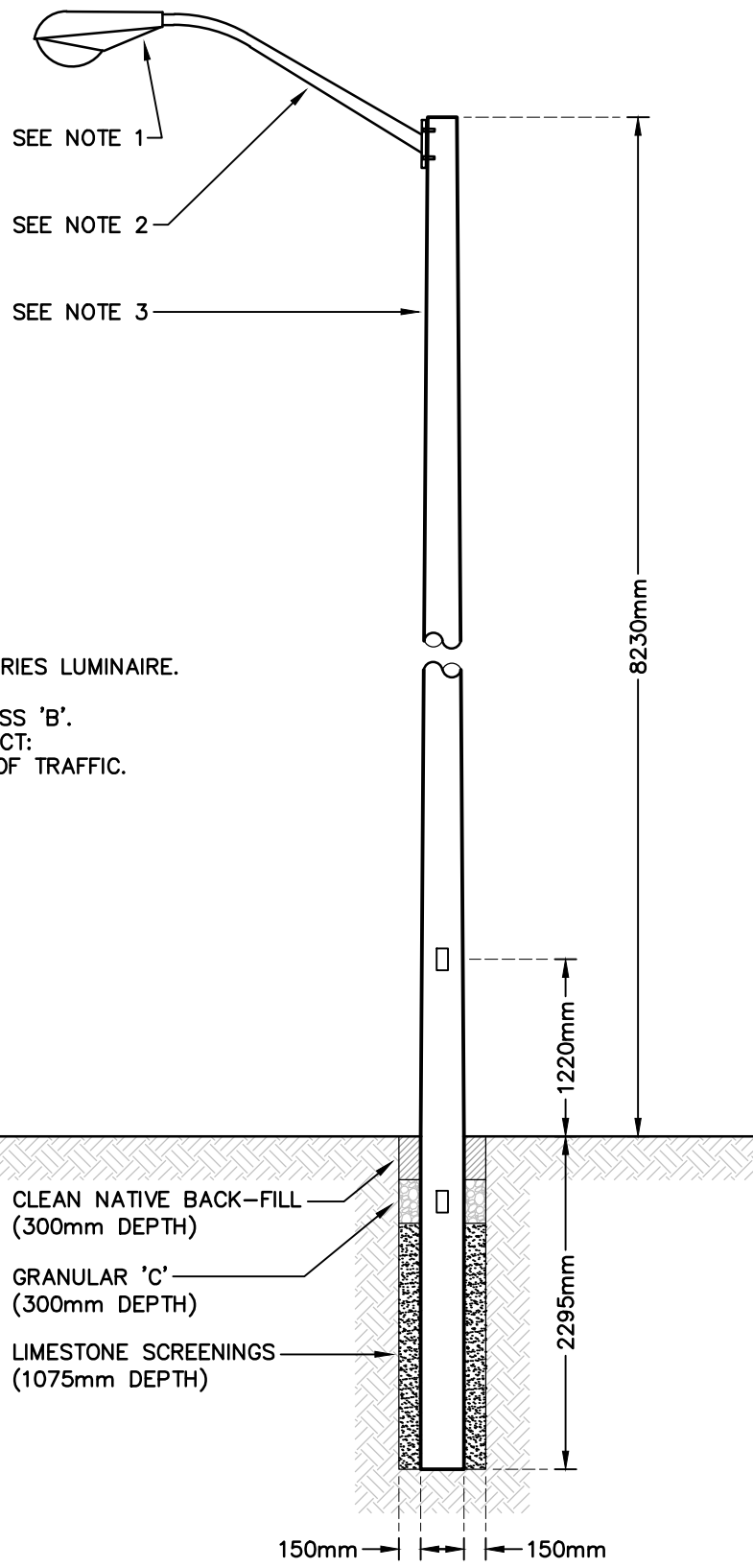
Rev. Date

2024/SEP

Standard No.

11-02.01





NOTES:

1. 82-100 WATT LED N_xT – LITE 16S SERIES LUMINAIRE.
2. 1.80m TAPERED ELLIPTICAL BRACKET.
3. 9.90m ROUND CONCRETE POLE – CLASS 'B'.
4. FOR MATERIAL SPECIFICATIONS, CONTACT:
DEVELOPMENT SERVICES – MANAGER OF TRAFFIC.

FINISHED GRADE

CLEAN NATIVE BACK-FILL
(300mm DEPTH)

GRANULAR 'C'
(300mm DEPTH)

LIMESTONE SCREENINGS
(1075mm DEPTH)

150mm → → → 150mm

Title

**STREET LIGHT
(82-100 WATT LED
ON 9.90m POLE)**

Scale

1:50

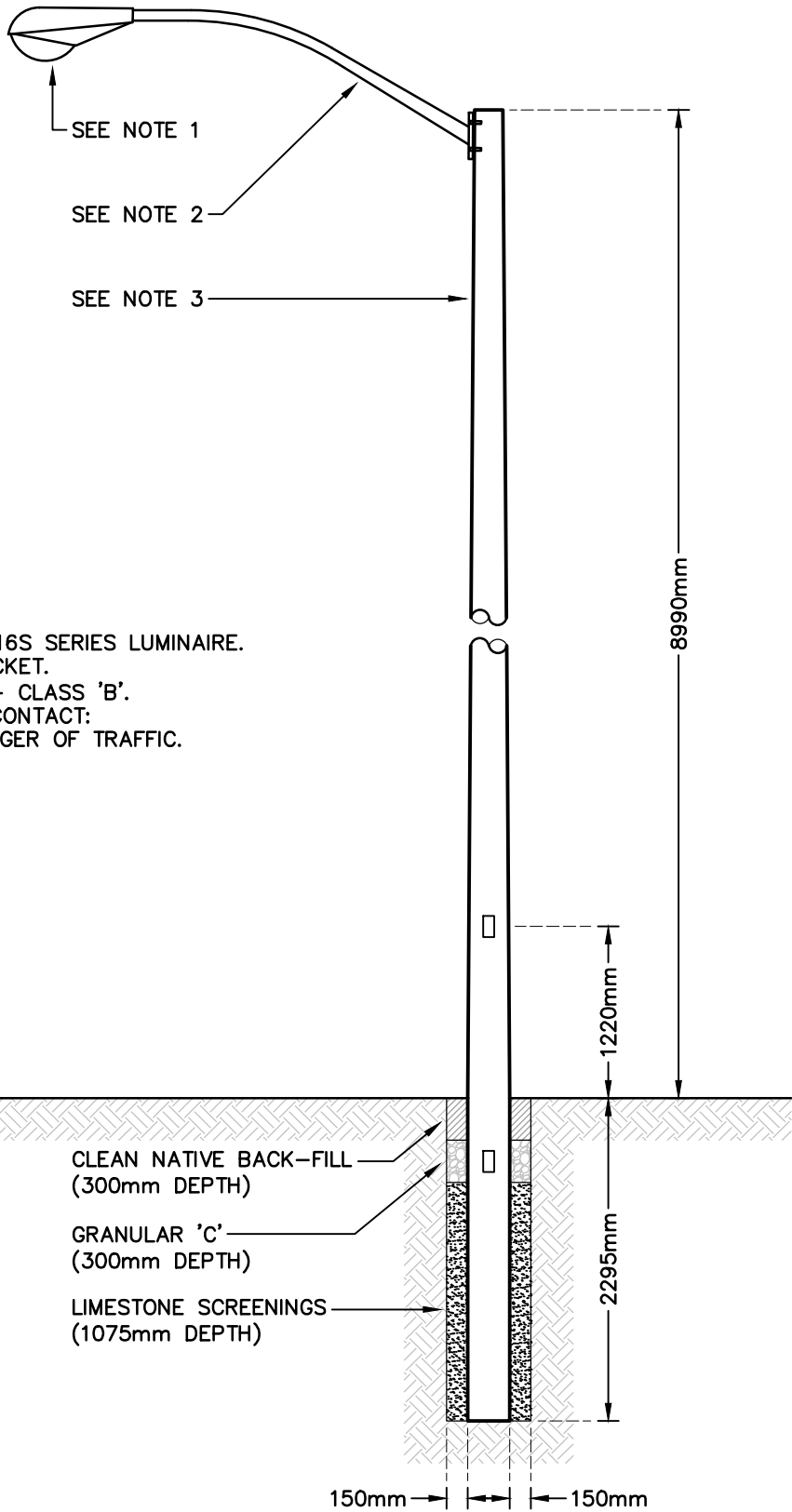
Rev. Date

2024/SEP

Standard No.

11-02.02





NOTES:

1. 141-200 WATT LED Nxt - LITE 16S SERIES LUMINAIRE.
2. 2.40m TAPERED ELLIPTICAL BRACKET.
3. 9.90m ROUND CONCRETE POLE - CLASS 'B'.
4. FOR MATERIAL SPECIFICATIONS, CONTACT:
DEVELOPMENT SERVICES - MANAGER OF TRAFFIC.

Title

**STREET LIGHT
(141-200 WATT LED
ON 10.70m POLE)**

Scale

1:50

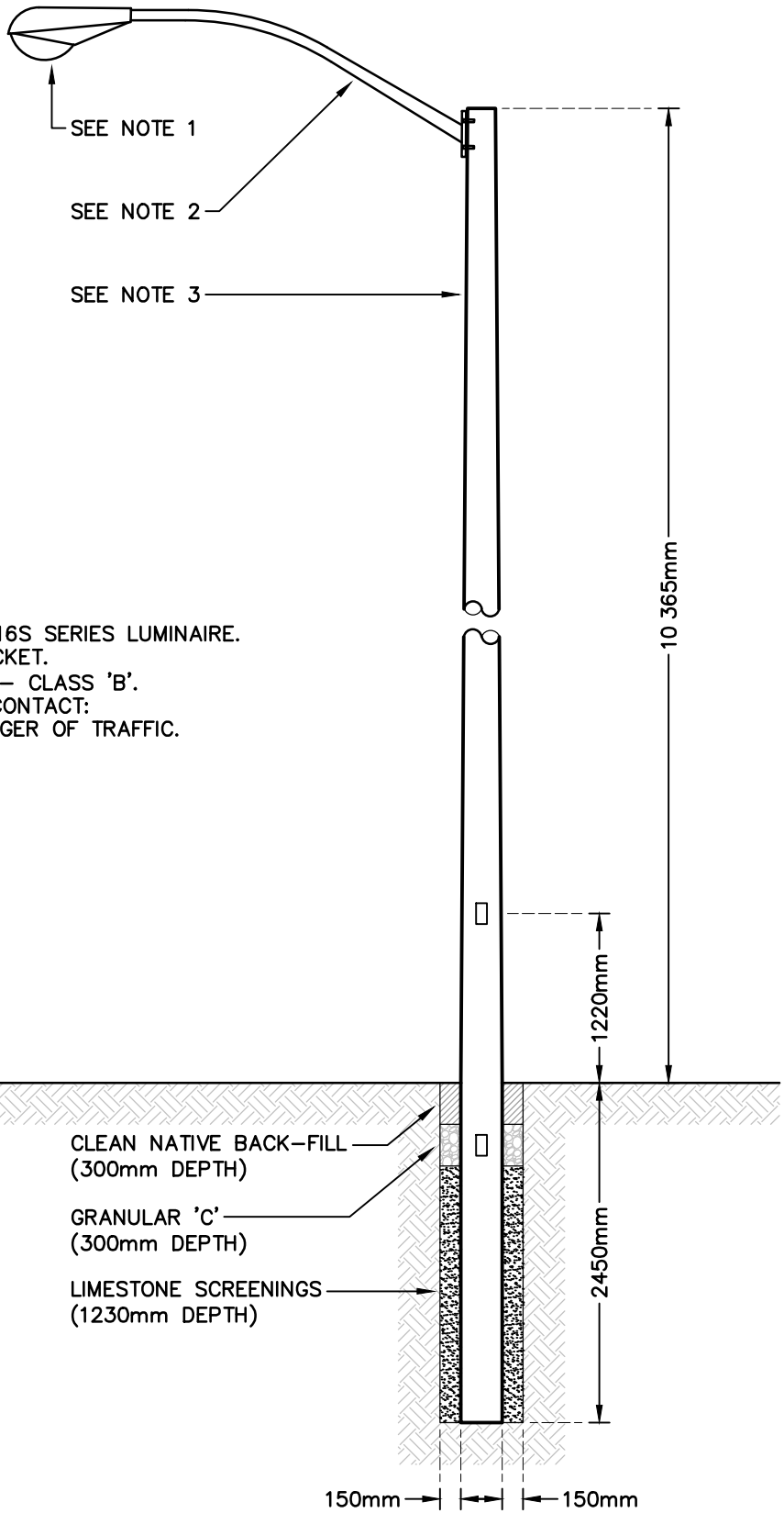
Rev. Date

2024/SEP

Standard No.

11.02.03





NOTES:

1. 141-200 WATT LED Nxt - LITE 16S SERIES LUMINAIRE.
2. 2.40m TAPERED ELLIPTICAL BRACKET.
3. 12.20m ROUND CONCRETE POLE - CLASS 'B'.
4. FOR MATERIAL SPECIFICATIONS, CONTACT:
DEVELOPMENT SERVICES - MANAGER OF TRAFFIC.

Title

**STREET LIGHT
(141-200 WATT LED
ON 12.20m POLE)**

Scale

1:50

Rev. Date

2024/SEP

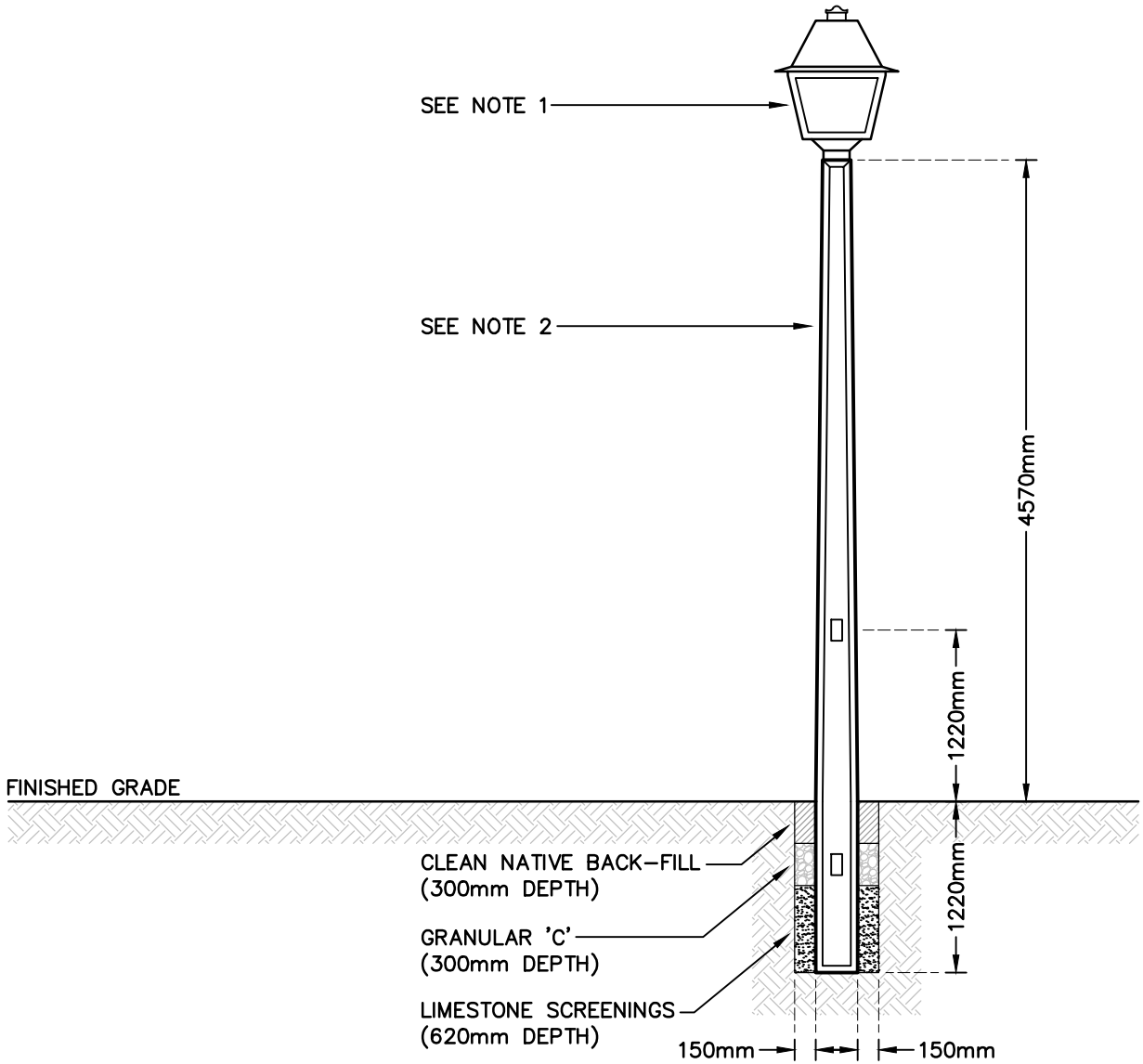
Standard No.

11-02.04



NOTES:

- 1. 35-44 WATT LED Nxt - LITE 16S SERIES DECORATIVE POST TOP LUMINAIRE.
- 2. 5.80m STRAIGHT TAPERED BLACK OCTAGONAL POLE - CLASS 'AL'.
- 3. FOR MATERIAL SPECIFICATIONS, CONTACT: DEVELOPMENT SERVICES - MANAGER OF TRAFFIC.



Title

**DECORATIVE POST
TOP STREET LIGHT
(ON 5.80m POLE)**

Scale

1:50

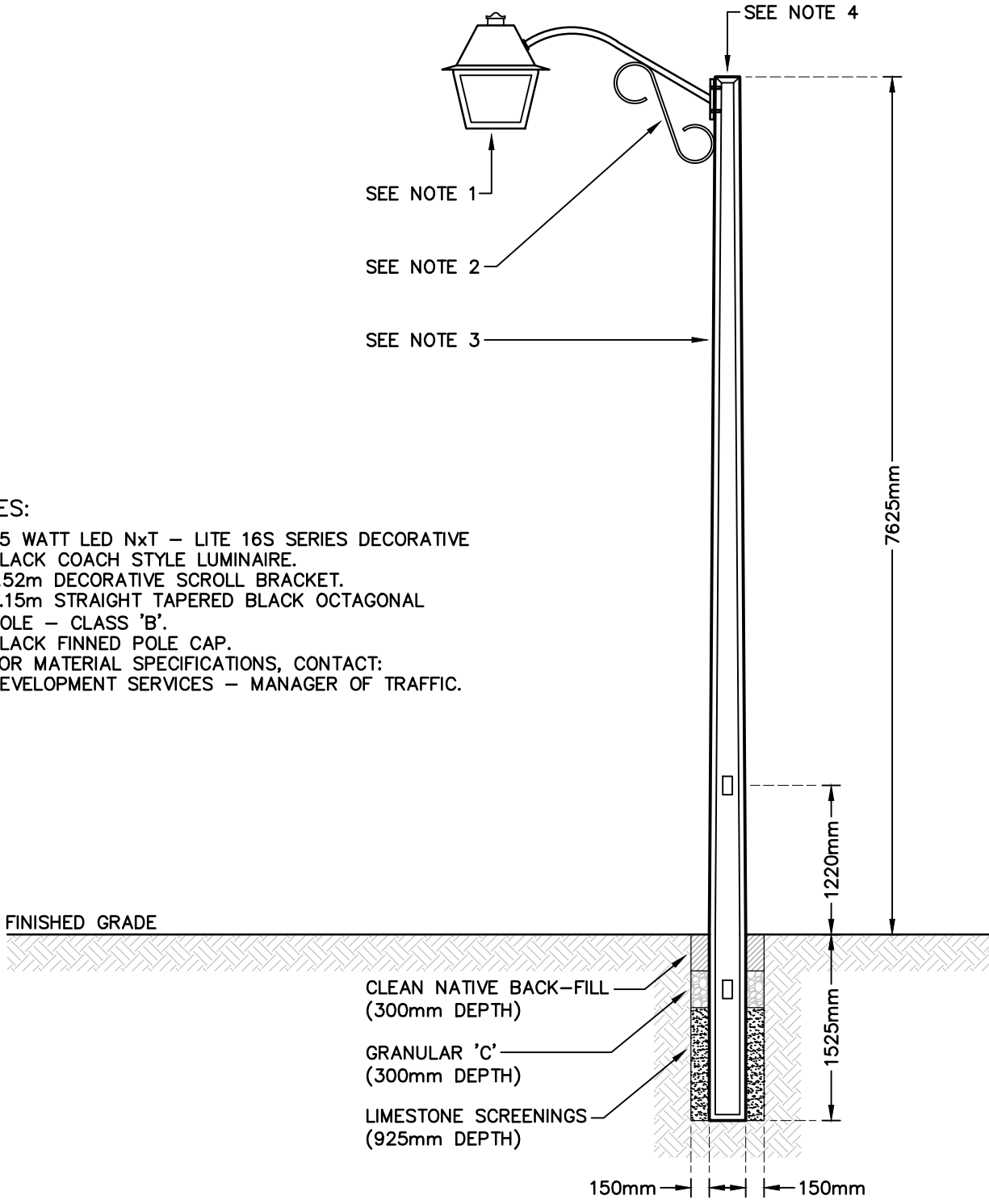
Rev. Date

2024/SEP

Standard No.

11-03.01





NOTES:

1. 55 WATT LED NxT – LITE 16S SERIES DECORATIVE BLACK COACH STYLE LUMINAIRE.
2. 1.52m DECORATIVE SCROLL BRACKET.
3. 9.15m STRAIGHT TAPERED BLACK OCTAGONAL POLE – CLASS 'B'.
4. BLACK FINNED POLE CAP.
5. FOR MATERIAL SPECIFICATIONS, CONTACT: DEVELOPMENT SERVICES – MANAGER OF TRAFFIC.

Title

**DECORATIVE STREET LIGHT
(ON 9.15m POLE)**

Scale

1:50

Rev. Date

2024/SEP

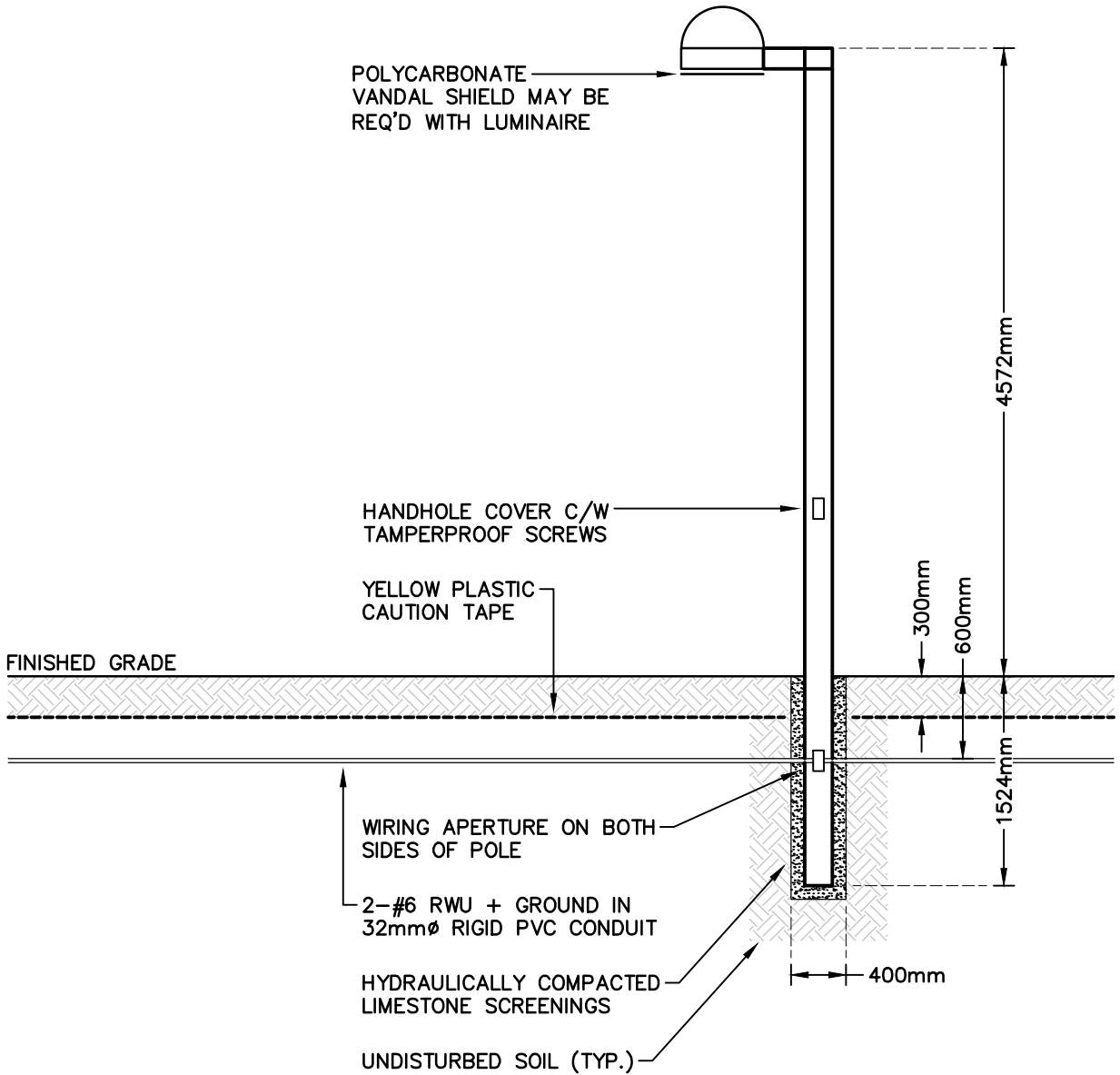
Standard No.

11-03.02



NOTES:

1. TRAIL LIGHTING IS DETERMINED ON A SITE-BY-SITE BASIS.
2. THE FIRST FIXTURE IN EACH WALKWAY LIGHTING CIRCUIT IS TO BE EQUIPPED WITH AN INTEGRAL BUTTON-TYPE PHOTO CONTROL TO CONTROL THE COMPLETE CIRCUIT.



Title

**PARKS & OPEN
SPACE LIGHTING
(TYPE 'A')**

Scale 1:50

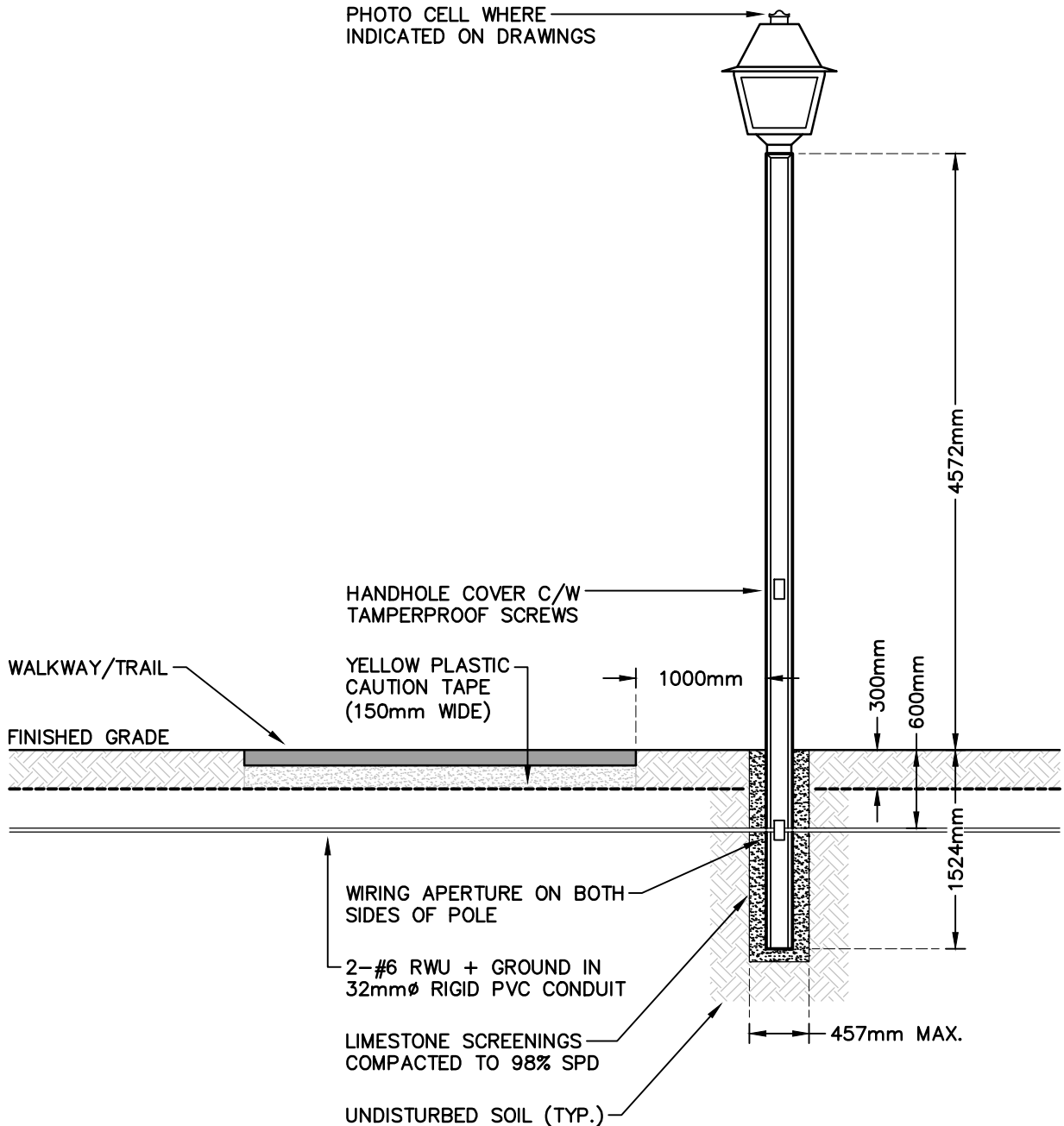
Rev. Date 2024/SEP

Standard No. 10-04.01



NOTES:

1. TRAIL LIGHTING IS DETERMINED ON A SITE-BY-SITE BASIS.
2. THE FIRST FIXTURE IN EACH WALKWAY LIGHTING CIRCUIT IS TO BE EQUIPPED WITH AN INTEGRAL BUTTON-TYPE PHOTO CONTROL TO CONTROL THE COMPLETE CIRCUIT.



Title

**PARKS & OPEN
SPACE LIGHTING
(TYPE 'B')**

Scale

1:50

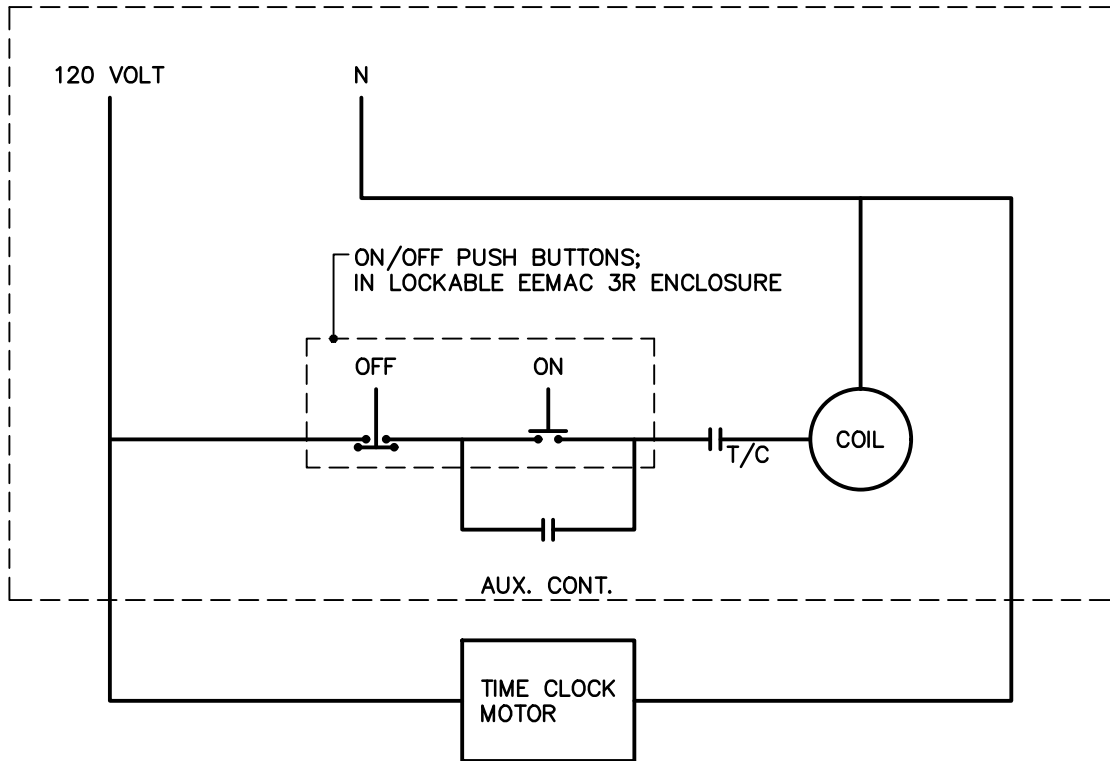
Rev. Date

2024/SEP

Standard No.

11-04.02





Title

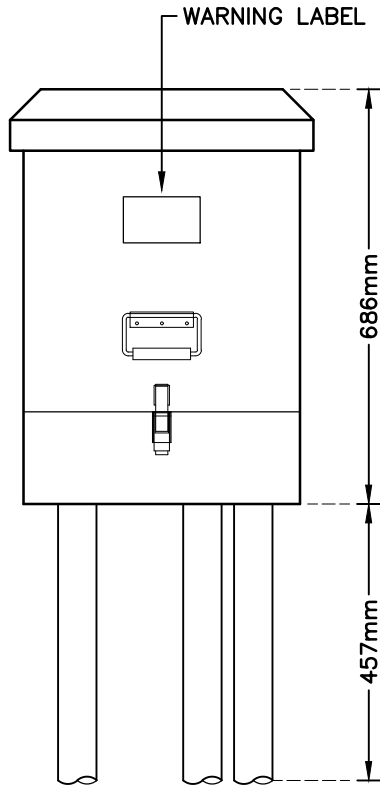
LIGHTING CONTROL SCHEMATIC

Scale **N.T.S.**

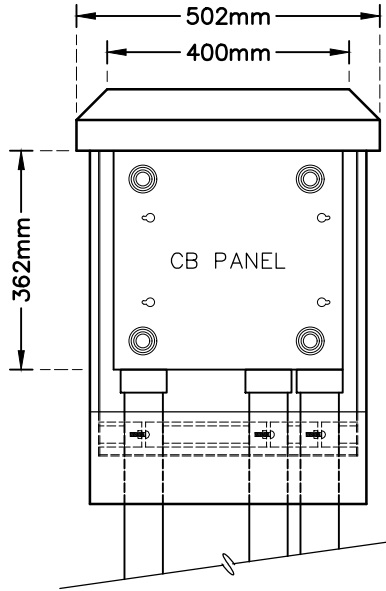
Rev. Date **2024/SEP**

Standard No. **11-05.01**

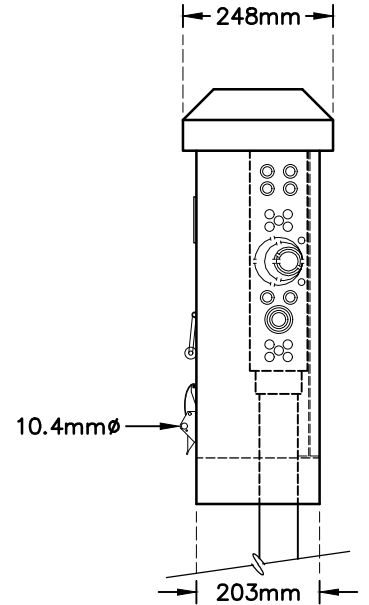




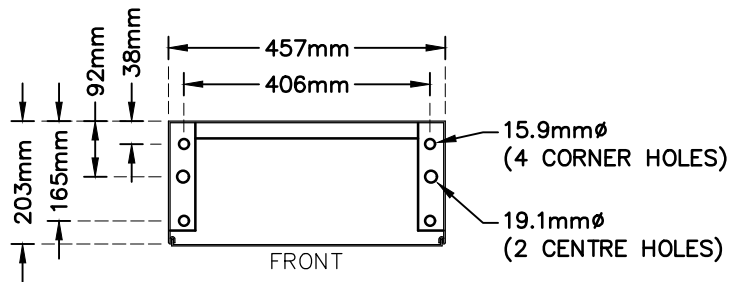
FRONT VIEW
(FRONT PANEL IN PLACE)



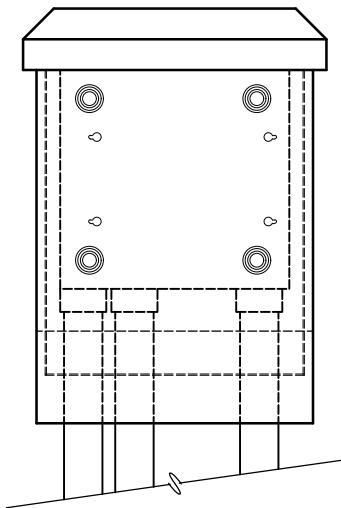
FRONT VIEW
(FRONT PANEL REMOVED)



SIDE VIEW



BASE PLATE
(MOUNTING DIMENSIONS)



REAR VIEW

SPECIFICATIONS:

ENCLOSURE MATERIAL:
14 GAUGE (2.1mm) THICK ZINC COATED
(GALVANIZED) SHEET METAL

PAINT COLOUR:
BYERS-BUSH JET KOTE BB510GR
(ELECTROSTATIC POWDER COAT FINISH)

PANEL:
SQUARE D CAT#CQ0112M100C60 12CCT.
2P 3W COMBINATION SERVICE PANEL

MAIN BREAKER:
SQUARE D CAT# QOM1-60. 60 AMP 2 POLE
WIRE RANGE #12-2/0 Al/Cu 22KA RATING

LOAD BREAKERS:
SQUARE D CAT# QO140. 40 AMP 1 POLE
WIRE RANGE #14-#2 Al/Cu 10KA RATING

MAIN NEUTRAL LUG:
WIRE RANGE #4-2/0 Al/Cu

LOAD NEUTRAL LUGS:
WIRE RANGE 1 LUG #4-2/0 Al/Cu
3 LUGS #14-1/0 Al/Cu
8 LUGS #14-#6 Al/Cu

FASTENERS:
4 PLATED HEX BOLTS 1/2" x 13 x 2"
(GRADE 2 OR BETTER)
4 PLATED 1/2" FLAT WASHERS
4 PLATED 1/2" LOCK WASHERS
(FOR FASTENING TO CONC.
MOUNTING BASE)

Title

**SHORT
STREET LIGHTING
PEDESTAL**

Scale

N.T.S.

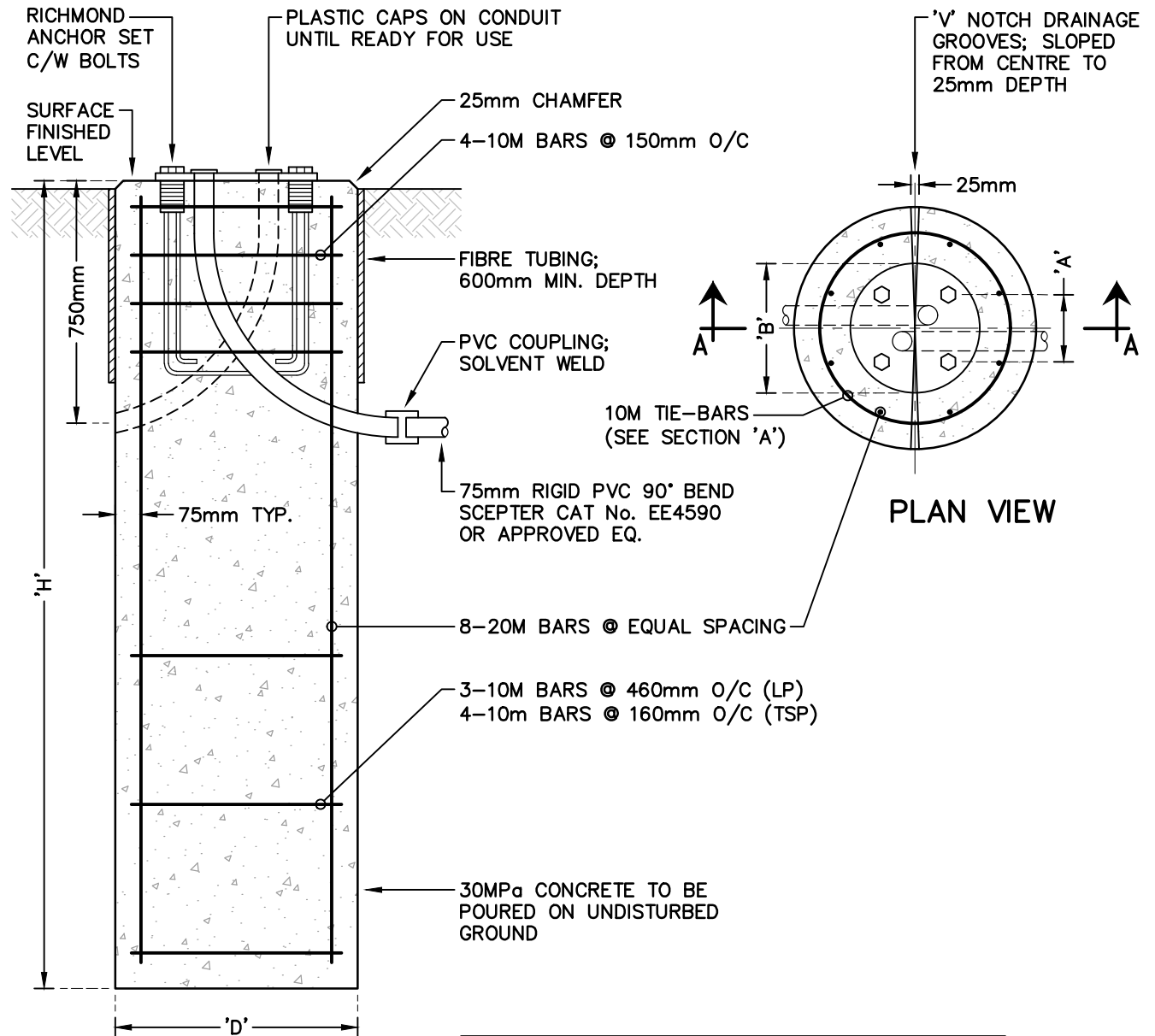
Rev. Date

2024/SEP

Standard No.

11-06.01





SECTION 'A'

POLE SIZE	'A'	'B'	'H'	'D'
TP15-645C-AB-242	171mm	242mm	1.50m	450mm
TP19-866C-AB-292	207mm	292mm	2.10m	600mm
TP19-1080E-AB-406	287mm	406mm	2.10m	750mm
ET35-845E-AB-292	207mm	292mm	2.50m	600mm
ET35-1055E-AB-406	287mm	406mm	2.50m	750mm

NOTES:

1. MOUNTING HARDWARE TO BE SUPPLIED WITH POLE (SEE TABLE FOR DIMENSIONS).
2. PROVIDE 1-75mm PVC CONDUIT ENTRY AT TRAFFIC SIGNAL POLE (TSP) BASE.
3. PROVIDE 2-50mm PVC CONDUIT ENTRIES AT LIGHTING POLE (LP) BASE.

Title

CONCRETE BASE FOR LIGHTING AND TRAFFIC SIGNAL POLES

Scale

1:20

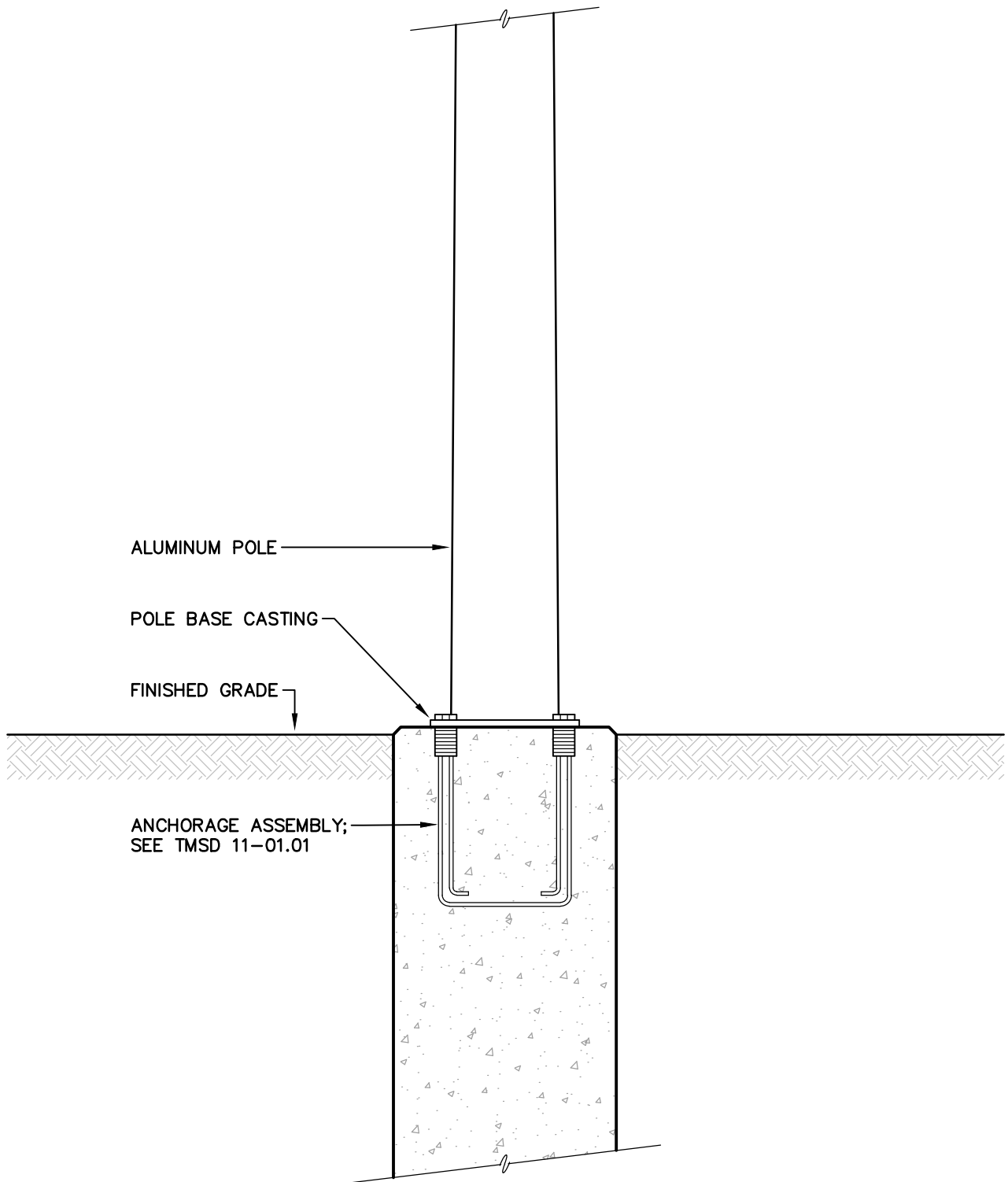
Rev. Date

2024/SEP

Standard No.

12-01.01





Title

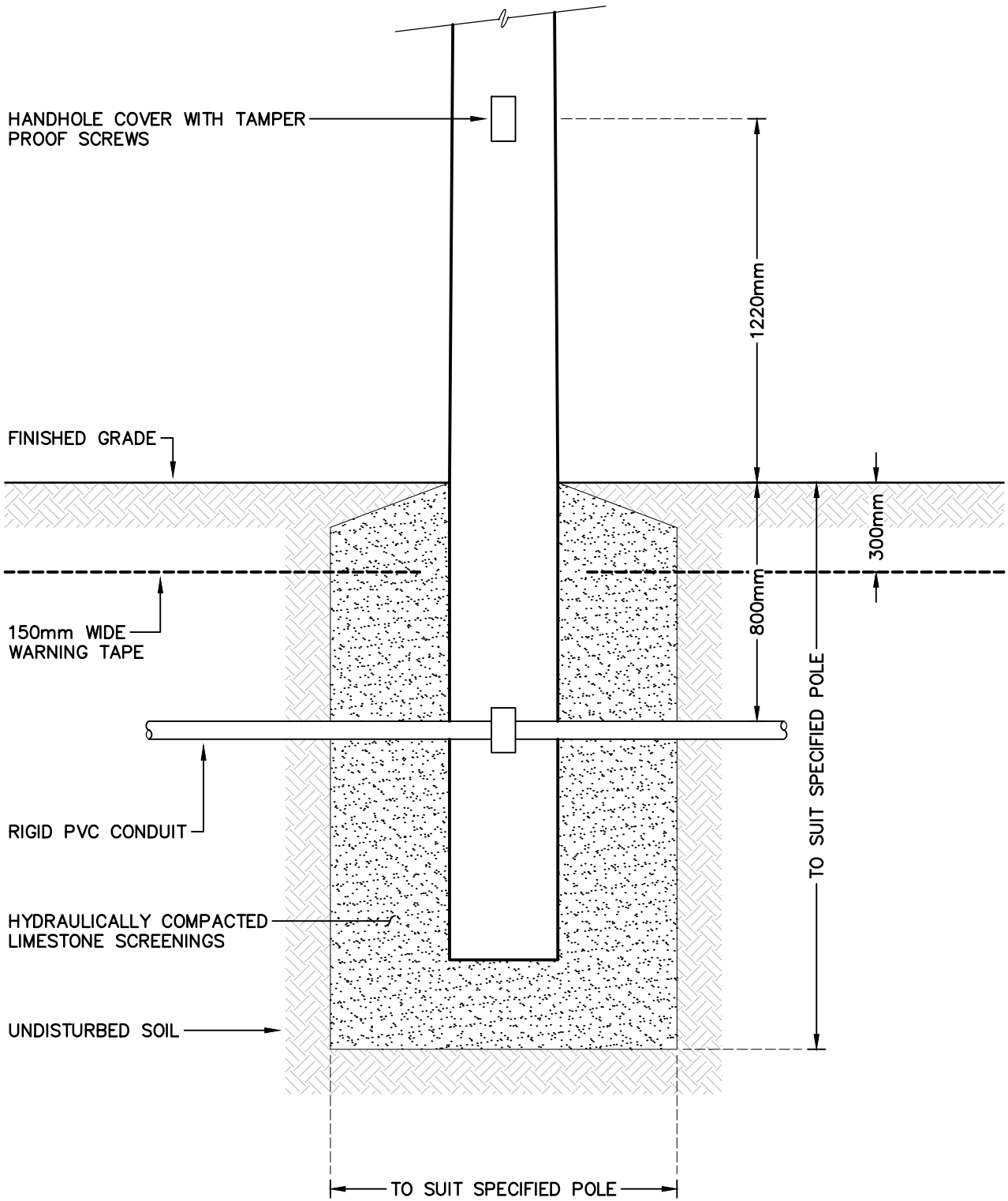
**POLE MOUNTING DETAILS
FOR BASE MOUNTED
ALUMINUM POLE**

Scale **1:20**

Rev. Date **2024/SEP**

Standard No. **12-02.01**





NOTE:

1. THIS DETAIL IS SUBJECT TO SITE SPECIFIC CONDITIONS, STRENGTHS, & BEARING CAPACITIES.

Title

**TYPICAL SPORTS LIGHTING
POLE BASE**

Scale

1:20

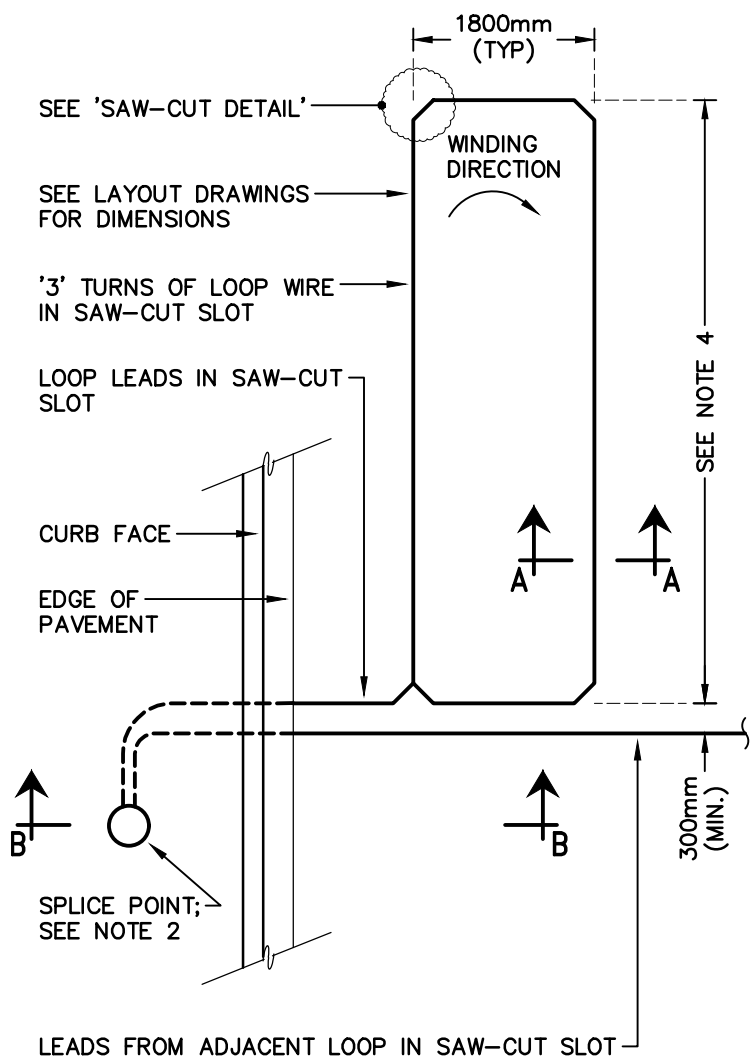
Rev. Date

2024/SEP

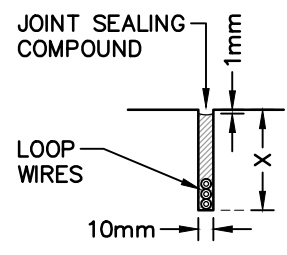
Standard No.

12-03.01



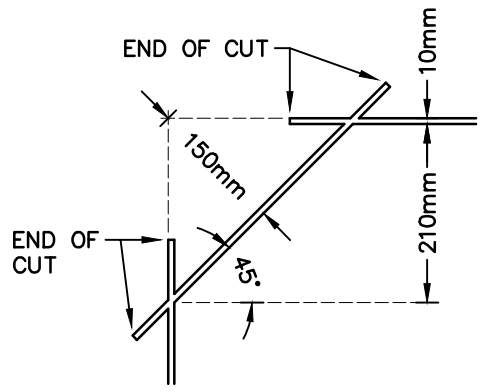


DETECTOR LOOP PLAN VIEW
SCALE: N.T.S.

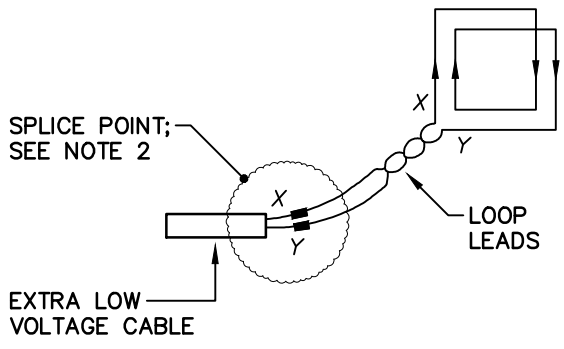


SECTION 'A'
SCALE: N.T.S.

No. OF WIRES	MIN. VALUE OF 'X'
1 or 2	60mm
3	65mm
4	70mm
5	75mm
6	80mm



SAW-CUT DETAIL
SCALE: N.T.S.



LOOP CONNECTIONS
SCALE: N.T.S.

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TMSD 12-01.02.
2. SPLICES ARE TO BE MADE IN A JUNCTION BOX, HANDHOLE, OR POLE HANDHOLE. (SEE LAYOUT DRAWINGS)
3. SEE TMSD 12-01.02 FOR SECTION 'B'.
4. HEAD OF LOOP TO BE SET 1.0m AHEAD OF THE STOP BAR, 1.0m BEHIND THE FRONT LOOP IN A DUAL LOOP CONFIGURATION, OR AS SPECIFIED.
5. LENGTH OF LOOP TO BE 6.0m FOR A 'STOP BAR LOOP' & 1.8m FOR AN 'ADVANCE LOOP.'

Title

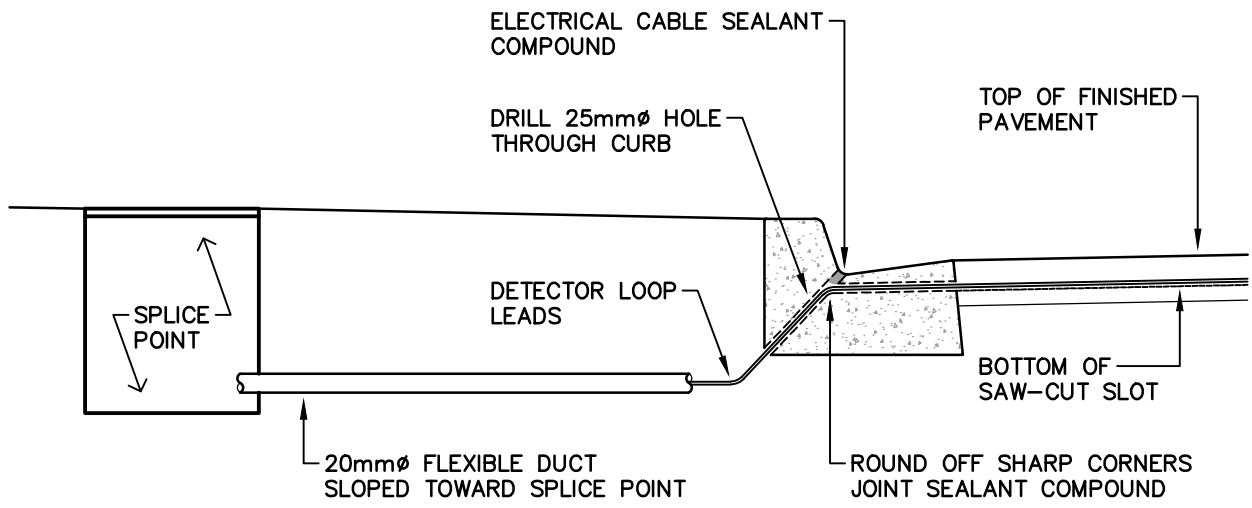
**LOOP DETECTORS
INSTALLATION DETAILS 1**

Scale **AS NOTED**

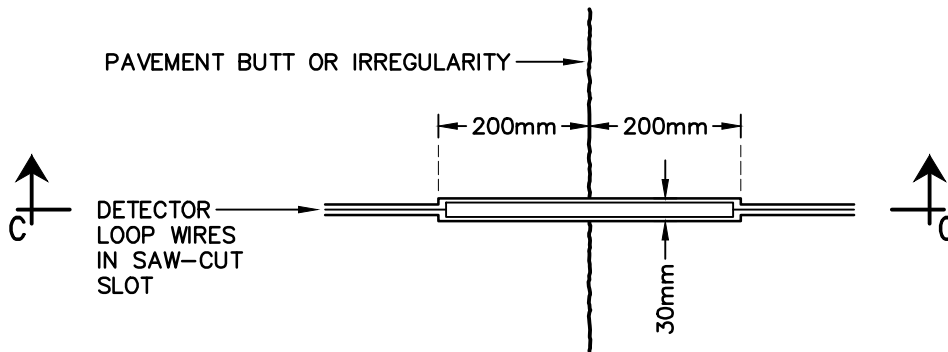
Rev. Date **2024/SEP**

Standard No. **13-01.01**

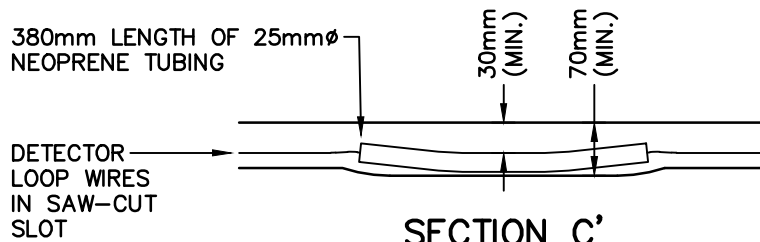




SECTION 'B'
SCALE: 1:20



PAVEMENT BUTT / IRREGULARITY PLAN
SCALE: 1:10



SECTION C'
SCALE: 1:10

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH TMSD 12-01.01.
2. WHERE CABLE IS INSTALLED PRIOR TO TOP COURSE OF ASPHALT, THE MAXIMUM DEPTH OF COVER SHALL BE 100mm.

Title

**LOOP DETECTORS
INSTALLATION DETAILS 2**

Scale

AS NOTED

Rev. Date

2024/SEP

Standard No.

13-01.02



APPLICATION:

USE PART DBY, WHICH INCLUDES A SCOTCHLOCK 'Y' ELECTRICAL SPRING CONNECTOR, TO ELECTRICALLY CONNECT TWO OR MORE PRE-STRIPPED COPPER WIRE ENDS IN A PIGTAIL APPLICATION AND MOISTURE SEAL THE CONNECTION FOR DIRECT BURIAL.

WIRE:

COMMON AWG WIRE COMBINATIONS
(COPPER WIRE ONLY, SOL or STR)

2-3 # 16	1 # 18 to 1-2 # 14
2-3 # 14	1 # 18 to 1-2 # 12
2 # 12	1 # 16 to 1-2 # 12
	1 # 14 to 1 # 12

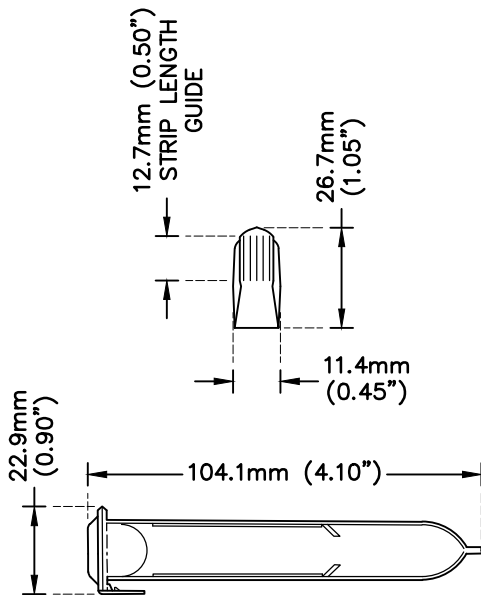
CONSULT TECHNICAL SERVICE FOR COMPLETE LIST OF WIRE COMBINATIONS.

ENGINEERING SPECIFICATION:

THE DEVICE (3M BRAND DBY DIRECT BURY SPLICE KIT) SHALL SPLICE AND EFFECTIVELY MOISTURE SEAL TWO OR MORE CONDUCTORS.

THE ELECTRICAL CONNECTOR SHALL BE A SCOTCHLOCK 'Y'.

THE DEVICE SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES.



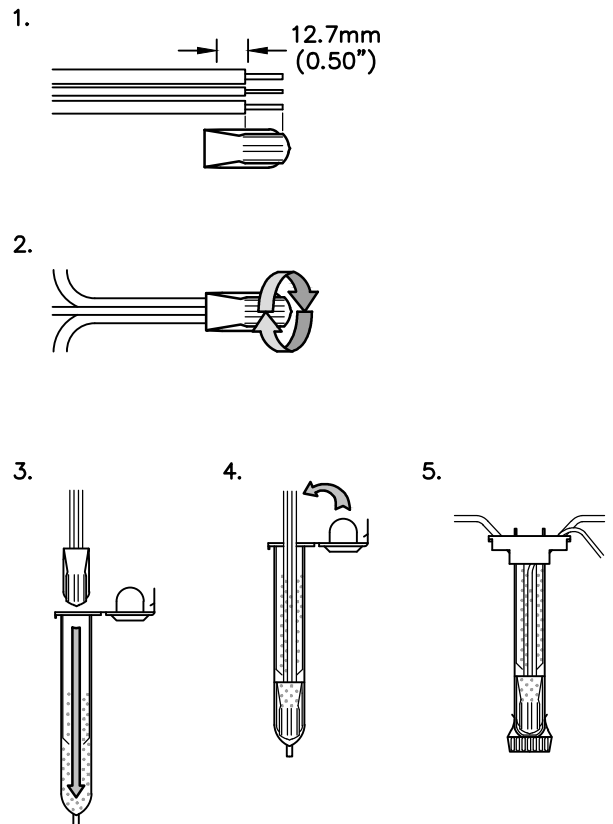
APPLICATION DATA:

APPLICATION TEMPERATURE: 0°C to 40°C (32°F to 120°F)
 OPERATING TEMPERATURE: -40°C to 105°C (-40°F to 221°F)
 VOLTAGE RATING: 30 Volts
 NOT FOR USE IN DIRECT ULTRAVIOLET EXPOSURE
 WEIGHT OF ONE KIT: 27.92g (0.0612 Lb) (2 SPLICES)
 DO NOT STORE ABOVE 49°C (120°F)

CONSTRUCTION:

CONNECTOR: STEEL SPRING, SHELL. FLAME RETARDANT PVC INSULATOR
 TUBE: POLYPROPYLENE
 GEL: THIXOTROPIC CALCIUM ORGANIC COMPLEX

INSTRUCTION FOR USE:



Title

**DIRECT BURY (DBY)
SPLICE KIT**

Scale

N.T.S.

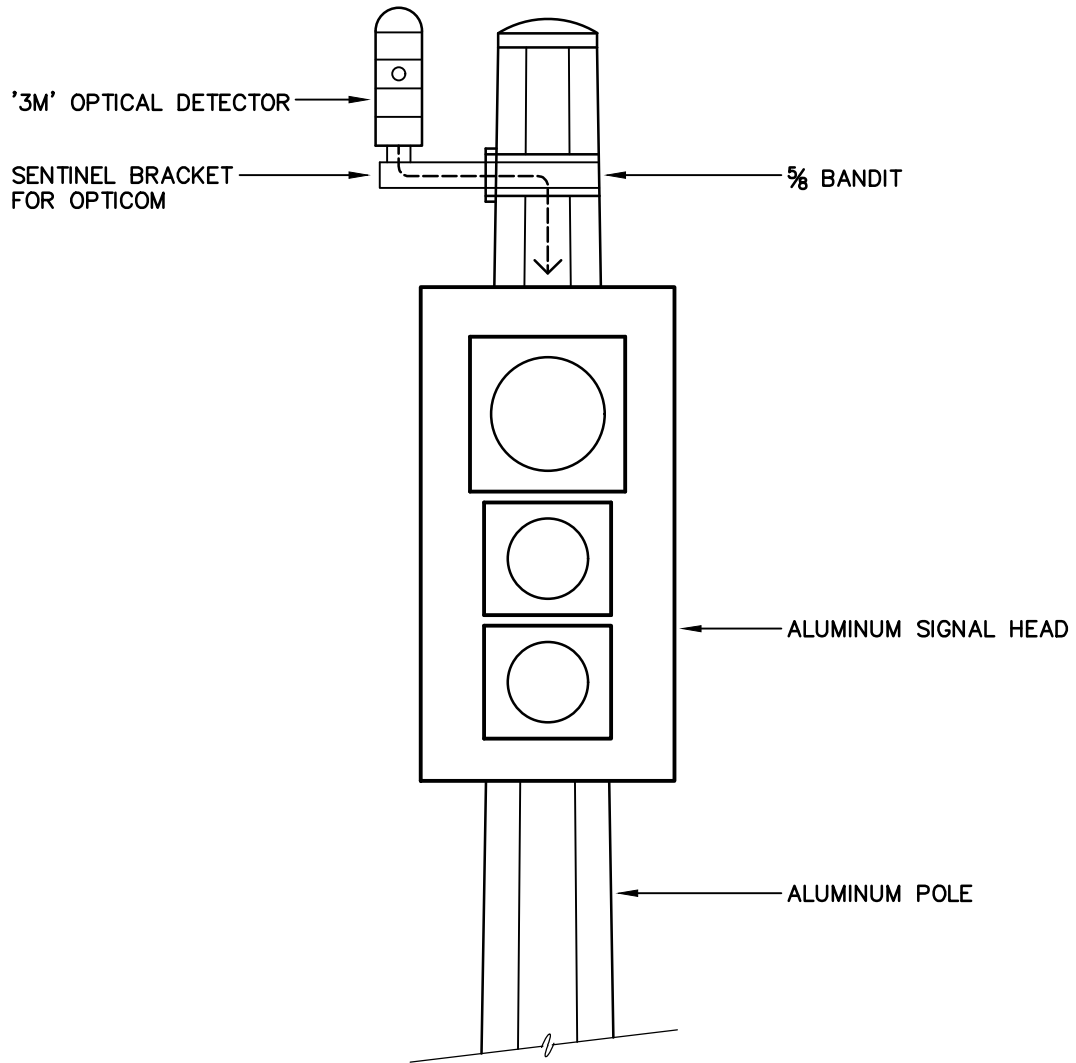
Rev. Date

2024/SEP

Standard No.

13-01.03





NOTE:

1. THIS DETAIL IS SUBJECT TO SITE SPECIFIC CONDITIONS, STRENGTHS, & BEARING CAPACITIES.

Title

**'3M' OPTICAL DETECTOR
MOUNTING**

Scale

N.T.S.

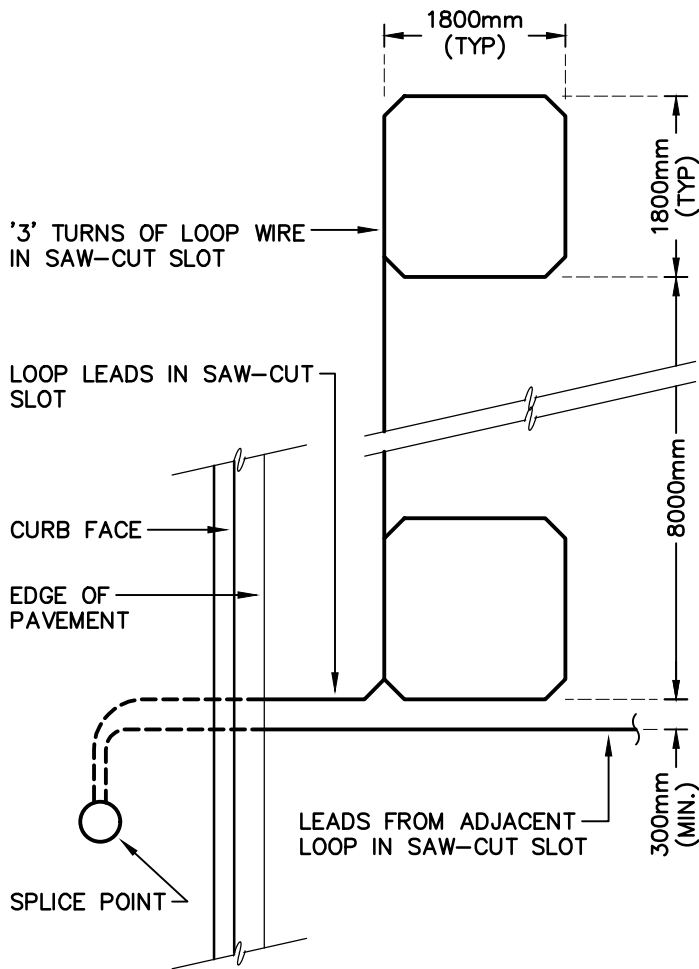
Rev. Date

2024/SEP

Standard No.

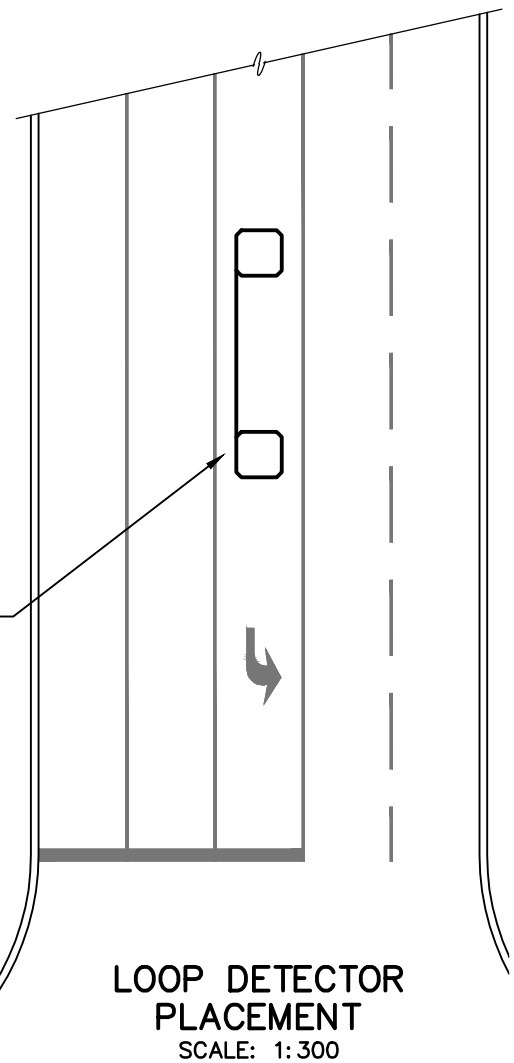
13-02.01





TRANSIT LOOP PLAN VIEW
SCALE: N.T.S.

SEE TRANSIT LOOP PLAN VIEW



NOTES:

1. SPLICES ARE TO BE MADE IN A JUNCTION BOX.
2. HEAD OF LOOP TO BE SET 8.0m BEHIND THE FRONT LOOP IN BUS LOOP CONFIGURATION.

Title

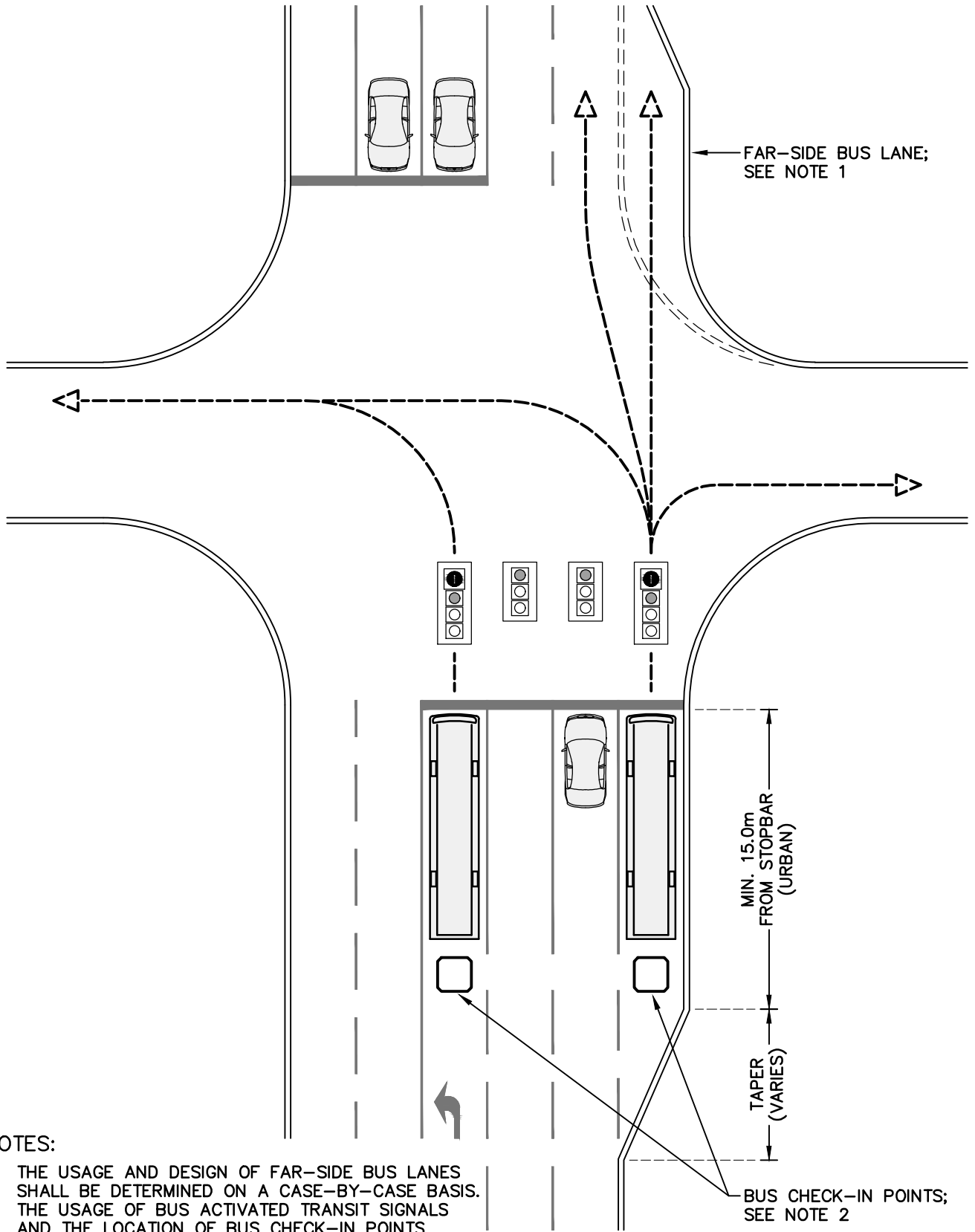
**TRANSIT LOOP DETECTOR
PLACEMENT SCHMATIC**

Scale **AS NOTED**

Rev. Date **2024/SEP**

Standard No. **13-03.01**





NOTES:

1. THE USAGE AND DESIGN OF FAR-SIDE BUS LANES SHALL BE DETERMINED ON A CASE-BY-CASE BASIS.
2. THE USAGE OF BUS ACTIVATED TRANSIT SIGNALS AND THE LOCATION OF BUS CHECK-IN POINTS SHALL BE DETERMINED ON A CASE-BY-CASE BASIS.

Title

**TRANSIT PRIORITY SIGNAL
CONCEPTUAL SKETCH**

Scale

1:300

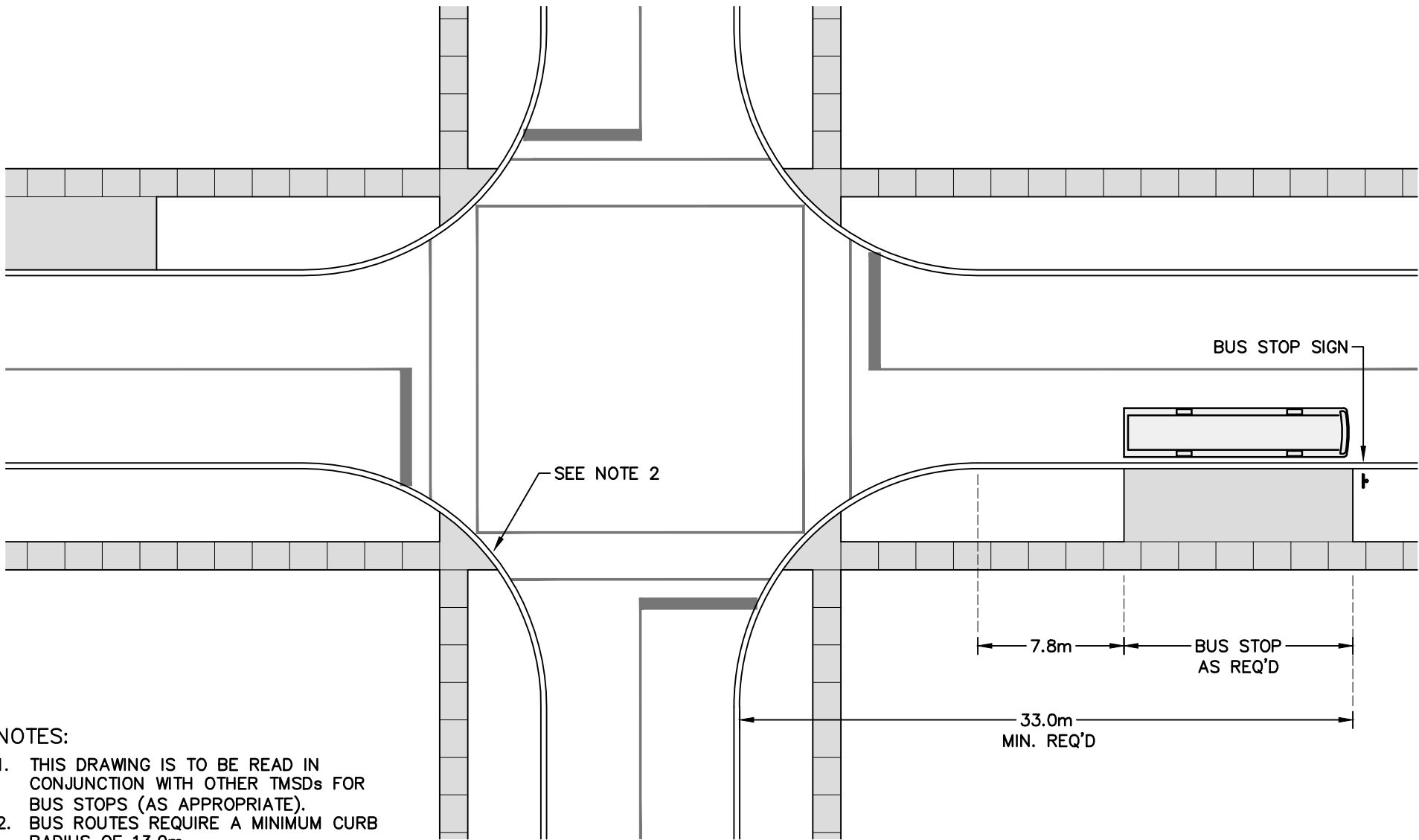
Rev. Date

2024/SEP

Standard No.

13-04.01





NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER TMSDs FOR BUS STOPS (AS APPROPRIATE).
2. BUS ROUTES REQUIRE A MINIMUM CURB RADIUS OF 13.0m.

Title

**BUS STOP
LAYOUT AT INTERSECTION
(FAR SIDE WITHOUT BUMP-OUT)**

Scale **1:300**

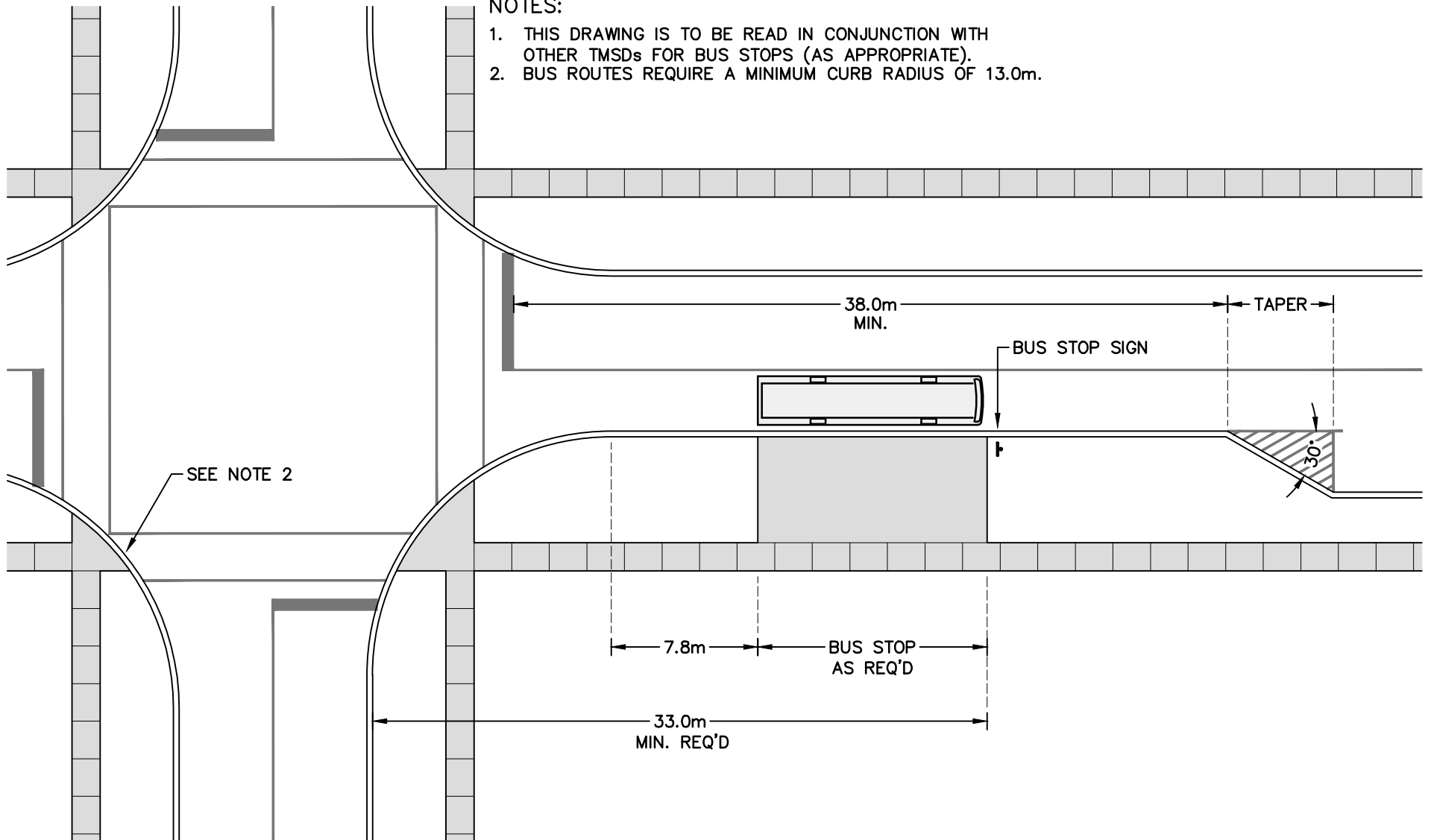
Rev. Date **2024/SEP**

Standard No. **14-01.01**



NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER TMSDs FOR BUS STOPS (AS APPROPRIATE).
2. BUS ROUTES REQUIRE A MINIMUM CURB RADIUS OF 13.0m.



Title

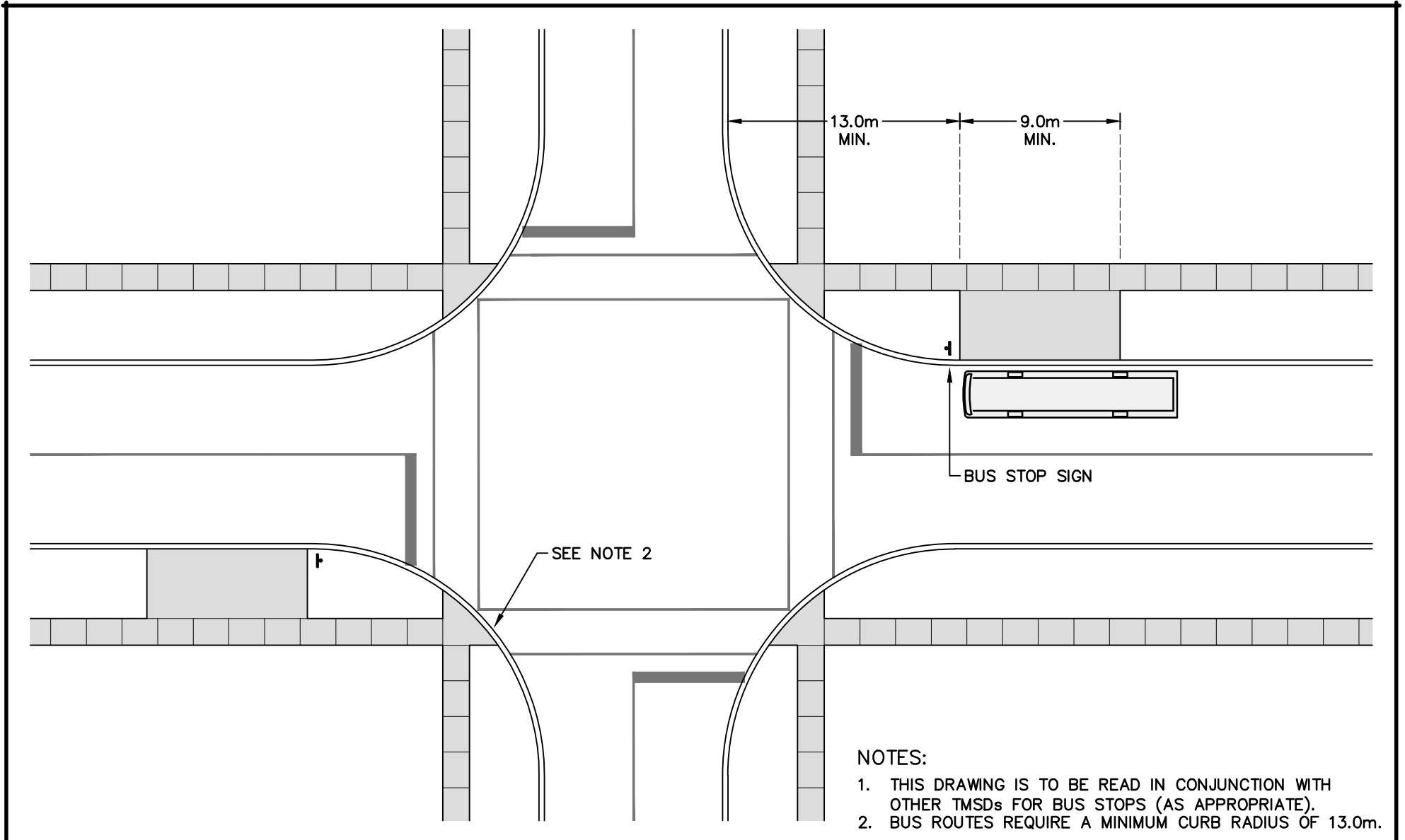
**BUS STOP
LAYOUT AT INTERSECTION
(FAR SIDE WITH BUMP-OUT)**

Scale 1:300

Rev. Date 2024/SEP

Standard No. 14-01.02





Title

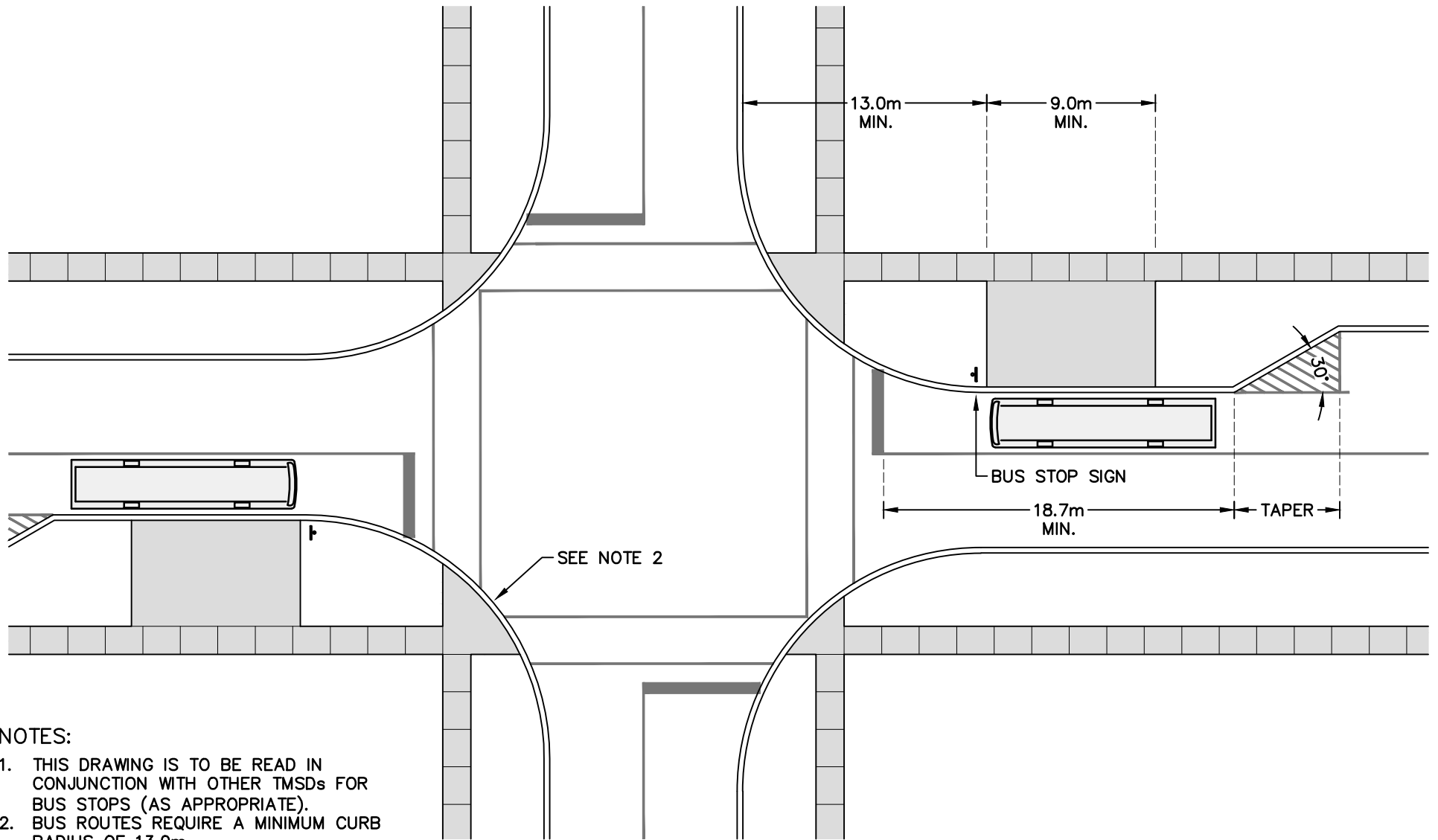
BUS STOP LAYOUT AT INTERSECTION (NEAR SIDE WITHOUT BUMP-OUT)

Scale
1:300

Rev. Date
2024/SEP

Standard No.
14-02.01





NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER TMSDs FOR BUS STOPS (AS APPROPRIATE).
2. BUS ROUTES REQUIRE A MINIMUM CURB RADIUS OF 13.0m.

Title

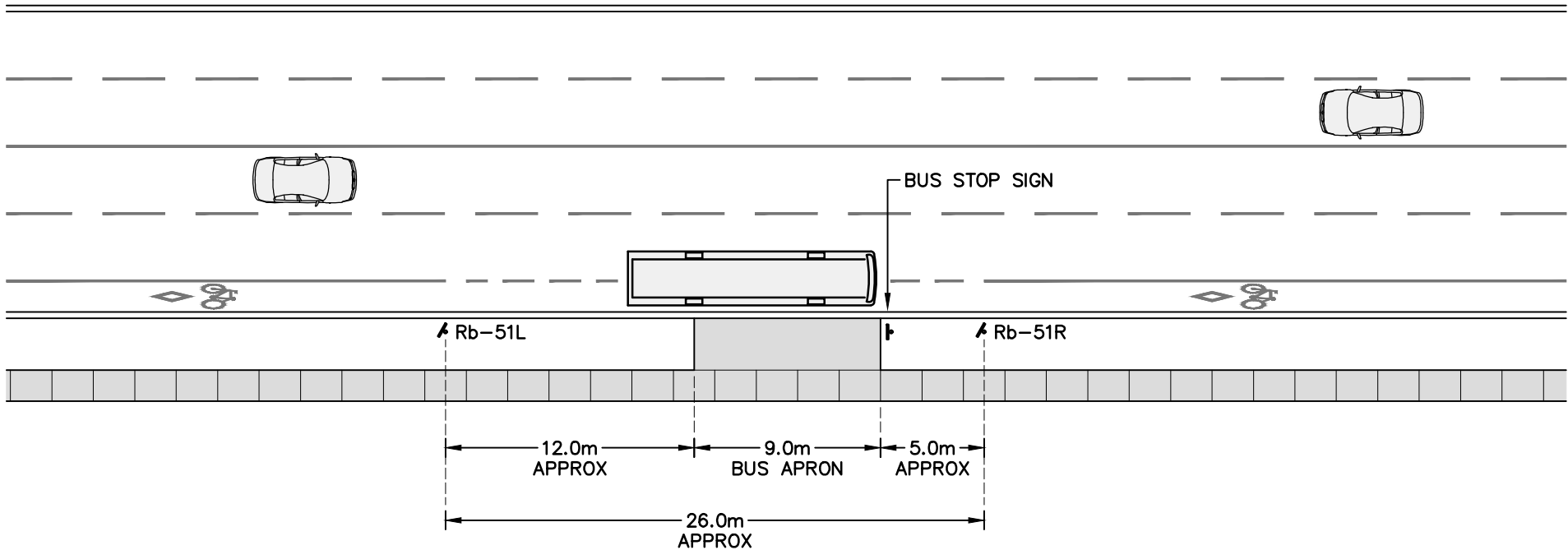
BUS STOP LAYOUT AT INTERSECTION (NEAR SIDE WITH BUMP-OUT)

Scale 1:300

Rev. Date 2024/SEP

Standard No. 14-02.02





LEGEND

↓ Rb-51 NO PARKING SIGN

NOTES:

1. PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA.

Title

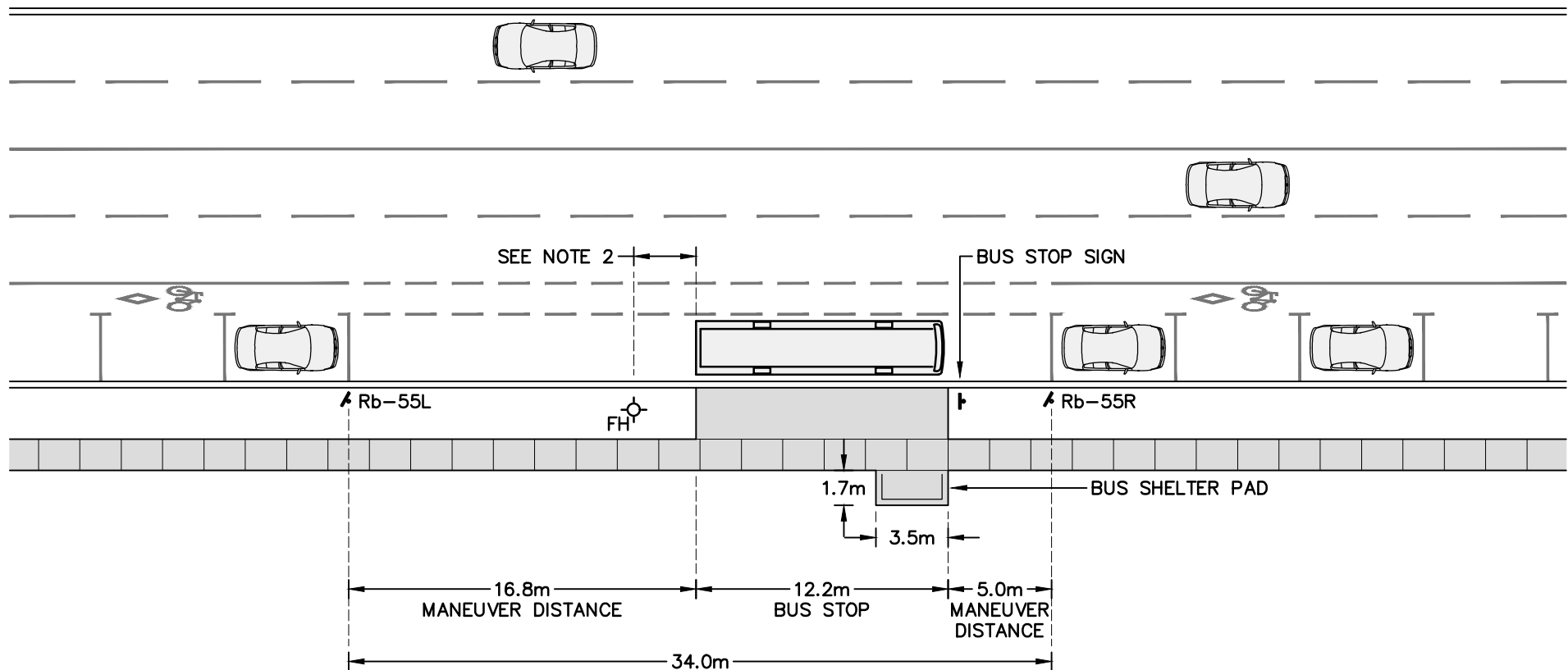
**BUS STOP
MID-BLOCK
IN ON-STREET BIKE LANE**

Scale **1:300**

Rev. Date **2024/SEP**

Standard No. **14-03.01**





LEGEND

↓ Rb-55 NO STOPPING SIGN

NOTES:

1. PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA.
2. BUS STOP TO BE MINIMUM 3.0m CLEAR OF FIRE HYDRANTS.

Title

**BUS STOP
MID-BLOCK
IN PARKING LANE (WITH ON-STREET BIKE LANE)**

Scale

1:300

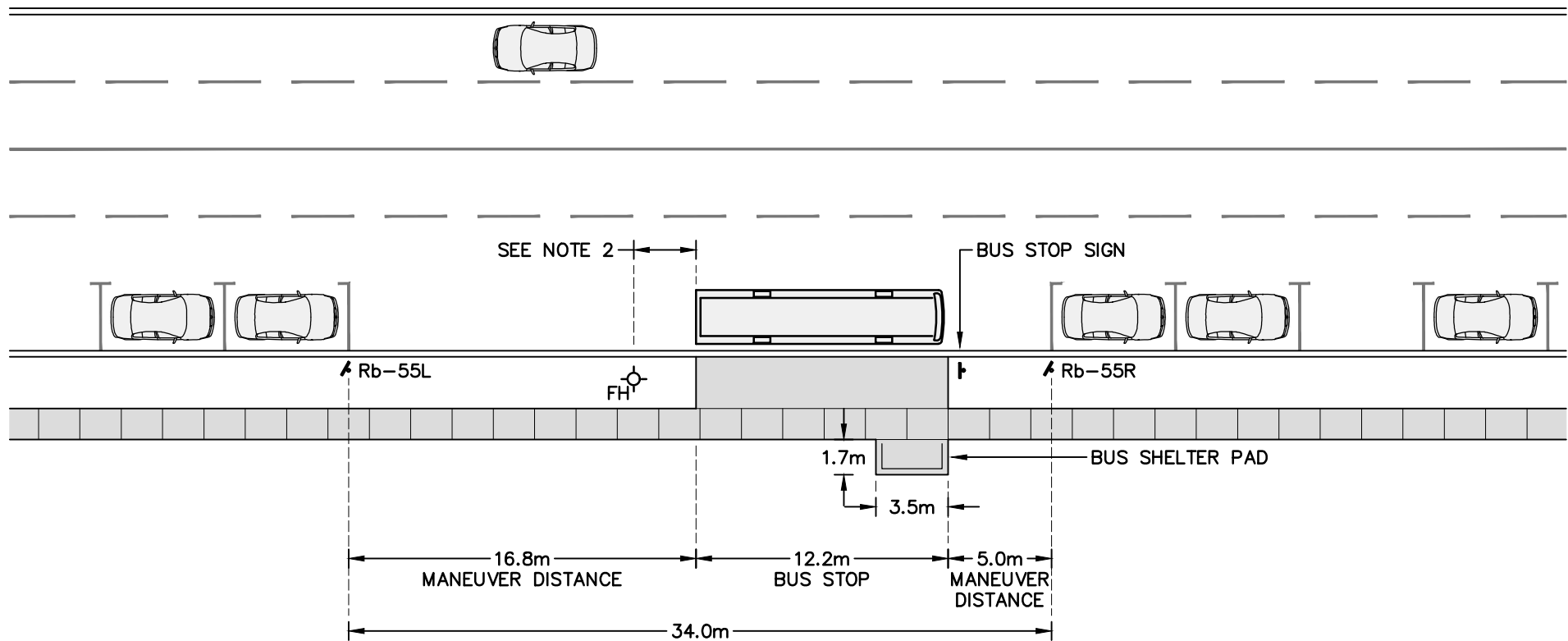
Rev. Date

2024/SEP

Standard No.

14-03.02





NOTES:

1. BUS IS EXPECTED TO MANEUVER INDEPENDENTLY INTO A SPACE BETWEEN TWO PARKED VEHICLES. MANEUVERING SPACE PLUS STOPPING SPACE FOR A BUS THAT IS 12.2m LONG SHOULD IDEALLY BE 30.0m. (REFERENCE FROM CANADIAN TRANSIT HANDBOOK, CANADIAN URBAN TRANSIT ASSOCIATION 1993).
2. BUS STOP TO BE MINIMUM 3.0m CLEAR OF FIRE HYDRANTS.

LEGEND

- ↓ Rb-55 NO STOPPING SIGN
- ⊙ FH FIRE HYDRANT

Title

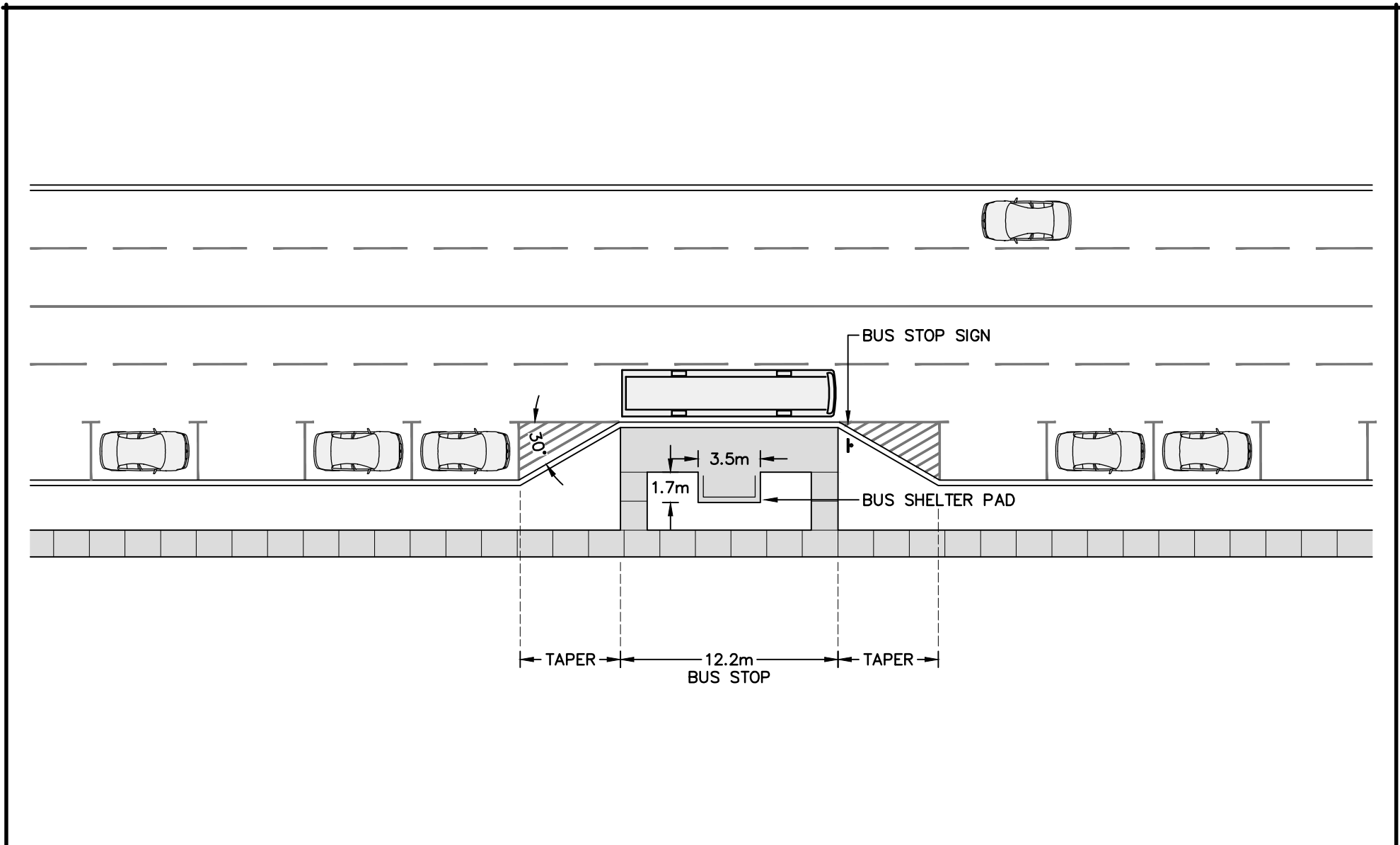
BUS STOP MID-BLOCK IN PARKING LANE

Scale 1:300

Rev. Date 2024/SEP

Standard No. 14-03.03





Title

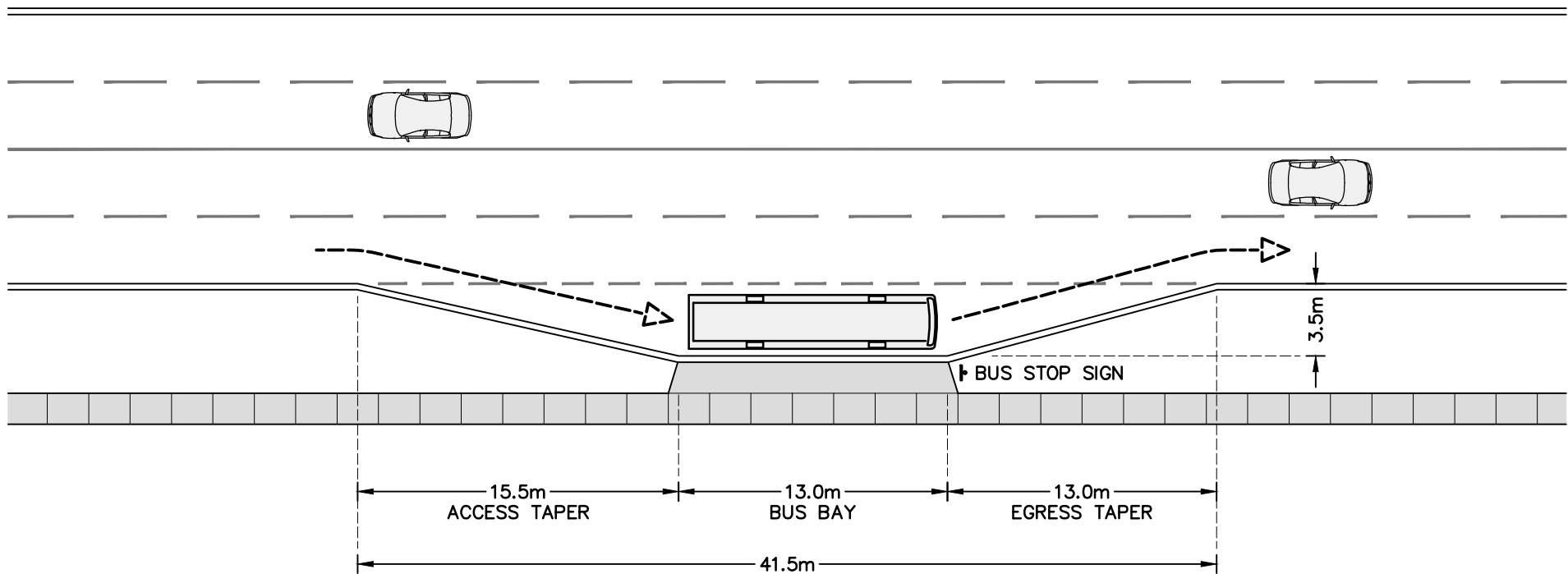
**BUS STOP
MID-BLOCK
IN PARKING LANE (WITH BUMP-OUT)**

Scale **1:300**

Rev. Date **2024/SEP**

Standard No. **14-04.01**





NOTES:

1. BUS BAY MAY BE REQUIRED UNDER THE FOLLOWING CONDITIONS:
 - HIGH SPEED STREET (70 km/hr OR GREATER)
 - LAYOVERS ARE EXPECTED FOR BUSES
 - INADEQUATE SIGHT DISTANCES
 - BUS PARKING IN CURB LANE PROHIBITED
2. CONSIDERATION SHOULD BE GIVEN TO FUTURE NEED FOR DOUBLE BUS BAY.

Title

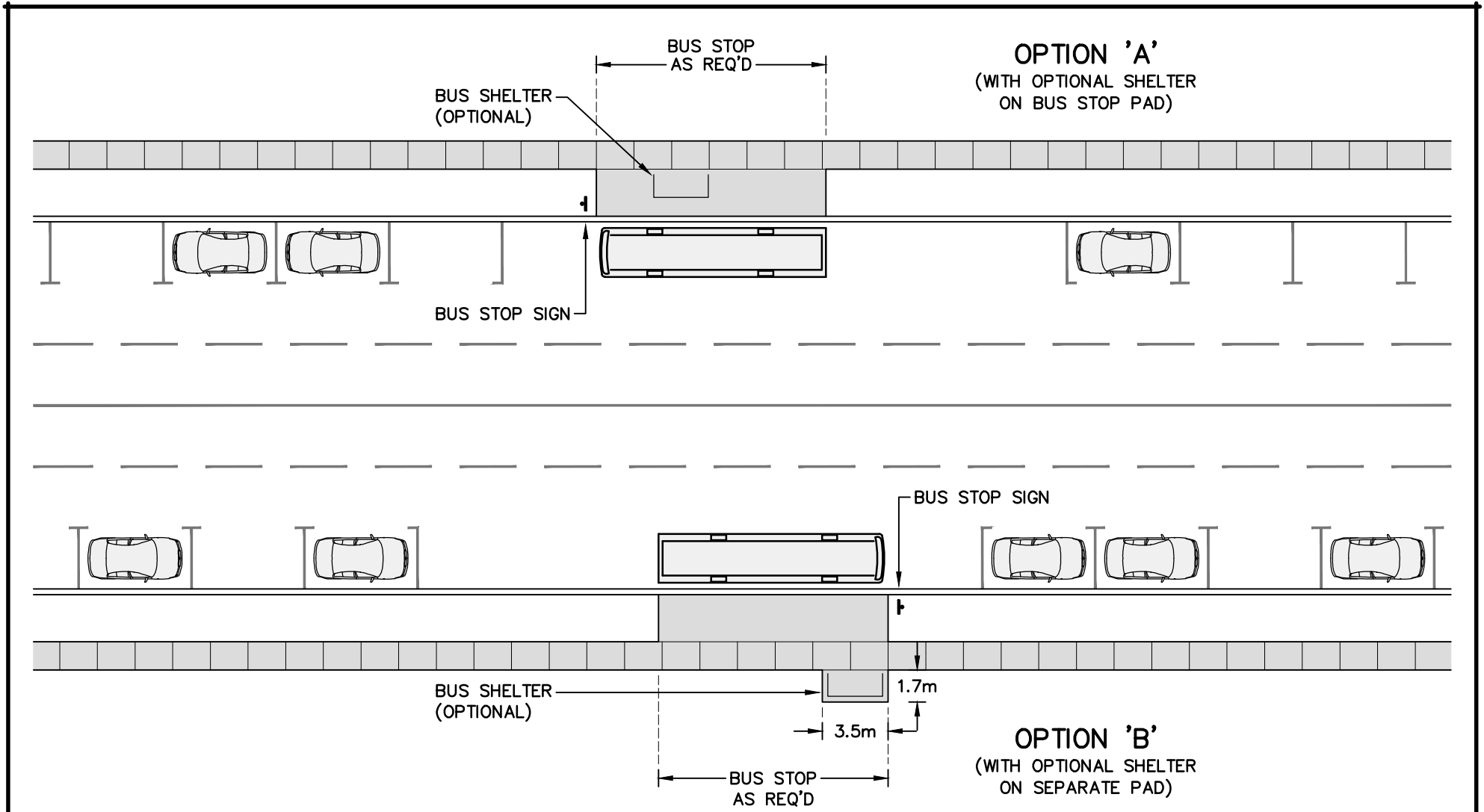
**BUS STOP
MID-BLOCK
IN BUS BAY**

Scale
1:300

Rev. Date
2024/SEP

Standard No.
14-05.01

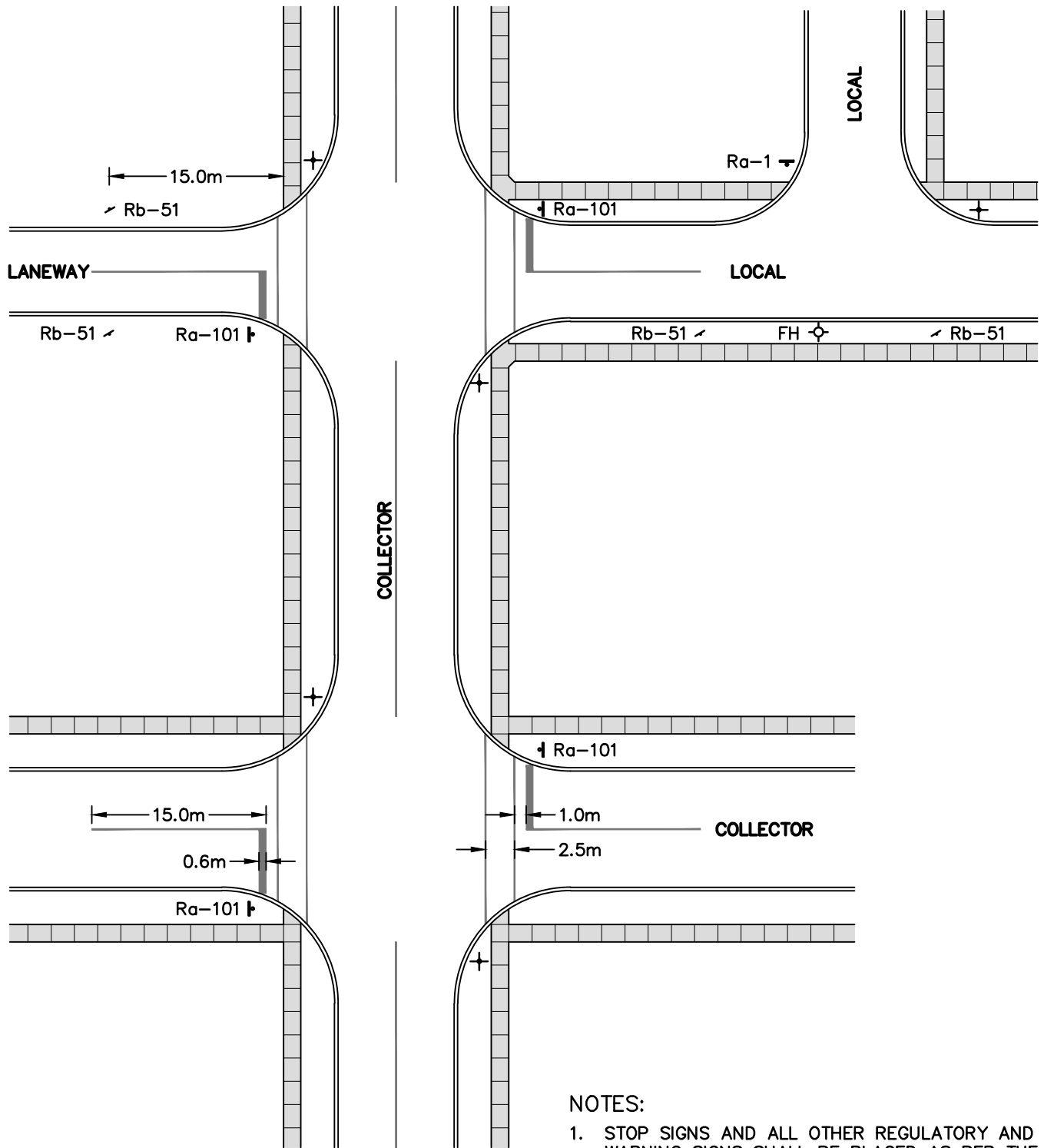




NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER TMSDs FOR BUS STOPS (AS APPROPRIATE).

<p>BUS STOP LANDING PAD & WALKWAY</p>	<p>Scale</p> <p style="text-align: center;">1:300</p>	
	<p>Rev. Date</p> <p style="text-align: center;">2024/SEP</p>	
	<p>Standard No.</p> <p style="text-align: center;">14-06.01</p>	



LEGEND

- ↓ Ra-1 STOP SIGN (60cmx60cm)
- ↓ Ra-101 STOP SIGN (75cmx75cm)
- ↓ Rb-51 NO-PARKING SIGN
- + STREET NAME SIGN
- ⊕ FH FIRE HYDRANT

NOTES:

1. STOP SIGNS AND ALL OTHER REGULATORY AND WARNING SIGNS SHALL BE PLACED AS PER THE ONTARIO TRAFFIC MANUAL.
2. STREET NAME SIGNS ARE NOT TO BE PLACED ON THE SAME POLE AS A STOP SIGN. (THE ONLY EXCEPTION TO THIS IS AT 4-WAY STOPS.)
3. STREET NAME SIGNS ARE TO BE PLACED 1.0m-1.5m FROM BACK OF CURB IN URBAN LOCATIONS AND 1.0m-1.5m FROM EDGE OF SHOULDER IN RURAL LOCATIONS.

Title

**TRAFFIC CONTROL &
PAVEMENT MARKINGS**

Scale

N.T.S.

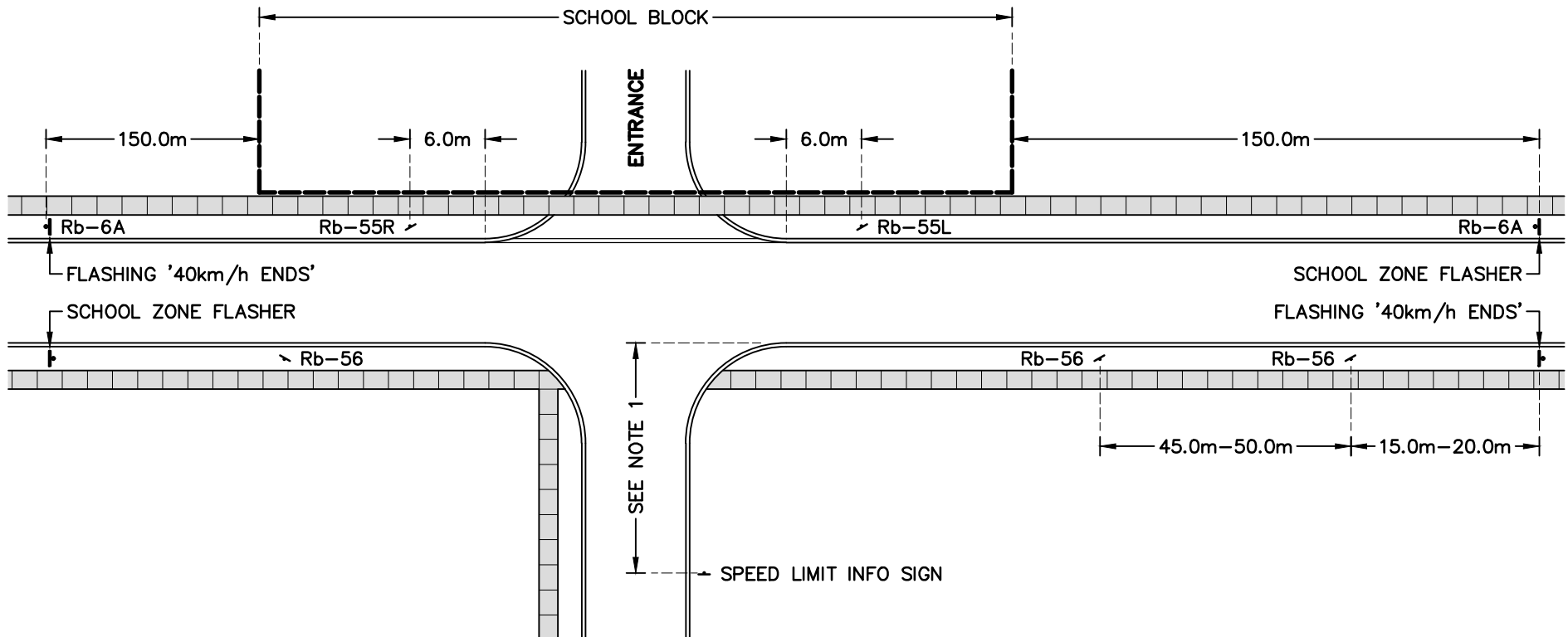
Rev. Date

2024/SEP

Standard No.

15-01.01





LEGEND

- ↓ Rb-6A SCHOOL ZONE MAXIMUM SPEED WHEN FLASHING
- ↓ Rb-55 NO STOPPING SIGN
- ↓ Rb-56 NO-STOPPING/DAY TIMES SIGN (8:00am – 5:00pm, MON – FRI, SEPT 1 – JUNE 30)

NOTES:

1. SPEED LIMIT INFO SIGN TO BE INSTALLED ON THE NEAREST LIGHT STANDARD OR WITH THE NEAREST NO PARKING SIGN, WHICHEVER IS CLOSEST TO THE INTERSECTION.

Title

**SCHOOL ZONE
SIGNAGE LAYOUT**

Scale

N.T.S.

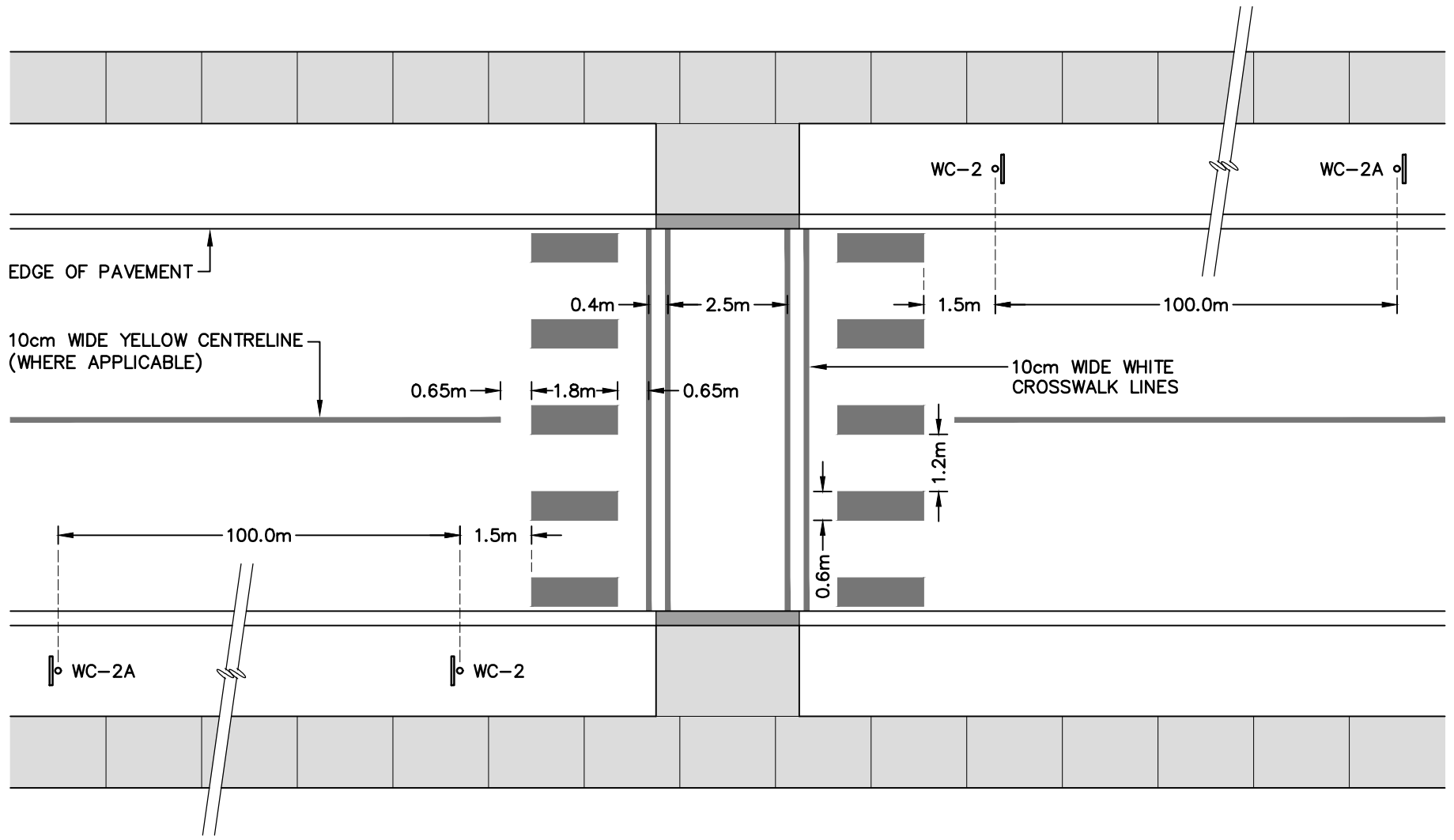
Rev. Date

2024/SEP

Standard No.

15-02.01





LEGEND

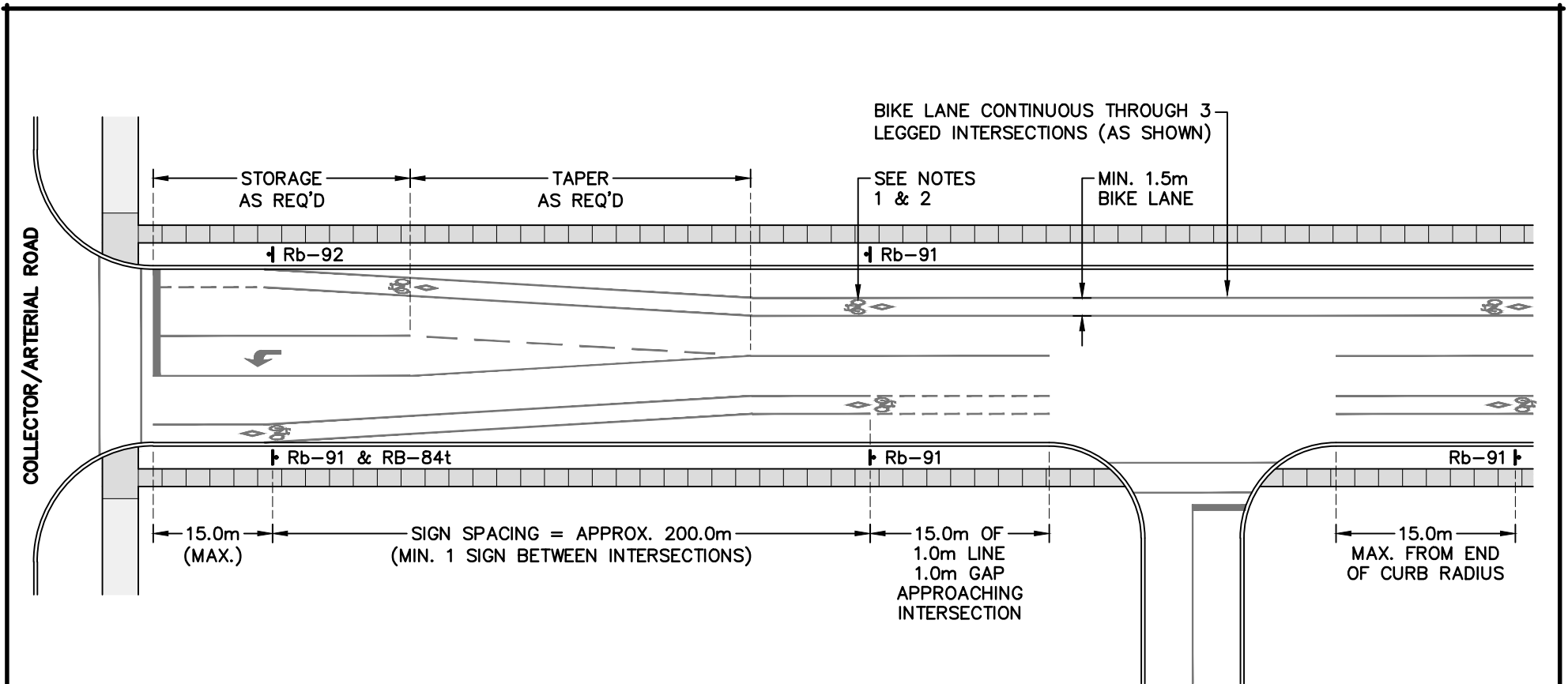
- ⊣ WC-2 SCHOOL CROSSING WARNING SIGN
- ⊣ WC-2A SCHOOL CROSSING AHEAD WARNING SIGN

Title

**SUPERVISED SCHOOL CROSSING
SIGNAGE & PAVEMENT MARKING LAYOUT**

Scale	1:125
Rev. Date	2024/SEP
Standard No.	15-02.02





NOTES:

1. ALL SIGNS SHALL BE IN ACCORDANCE WITH TAC BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA.
2. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH OTM BOOK 18 – CYCLING FACILITIES. BEST EFFORTS SHALL BE MADE TO ALIGN BIKE LANE PAVEMENT MARKINGS WITH BIKE LANE SIGNAGE.
3. Rb-84t SHALL BE IN ACCORDANCE WITH OTM BOOK 5 – REGULATORY SIGNAGE.
4. ALL SIDEWALK RAMPS TO BE INSTALLED C/W TACTILE WALKING SURFACE INDICATORS AND DIRECTIONAL LINES PER TMSD 08-05.01.

LEGEND

- ↓ Rb-91 RESERVED BICYCLE LANE SIGN
- ↓ Rb-92 RESERVED BICYCLE LANE ENDS SIGN
- ↓ Rb-84t RESERVED LANE BEGINS TAB

Title

**ON-STREET BIKE LANE
SIGNAGE & PAVEMENT MARKING LAYOUT**

Scale

N.T.S.

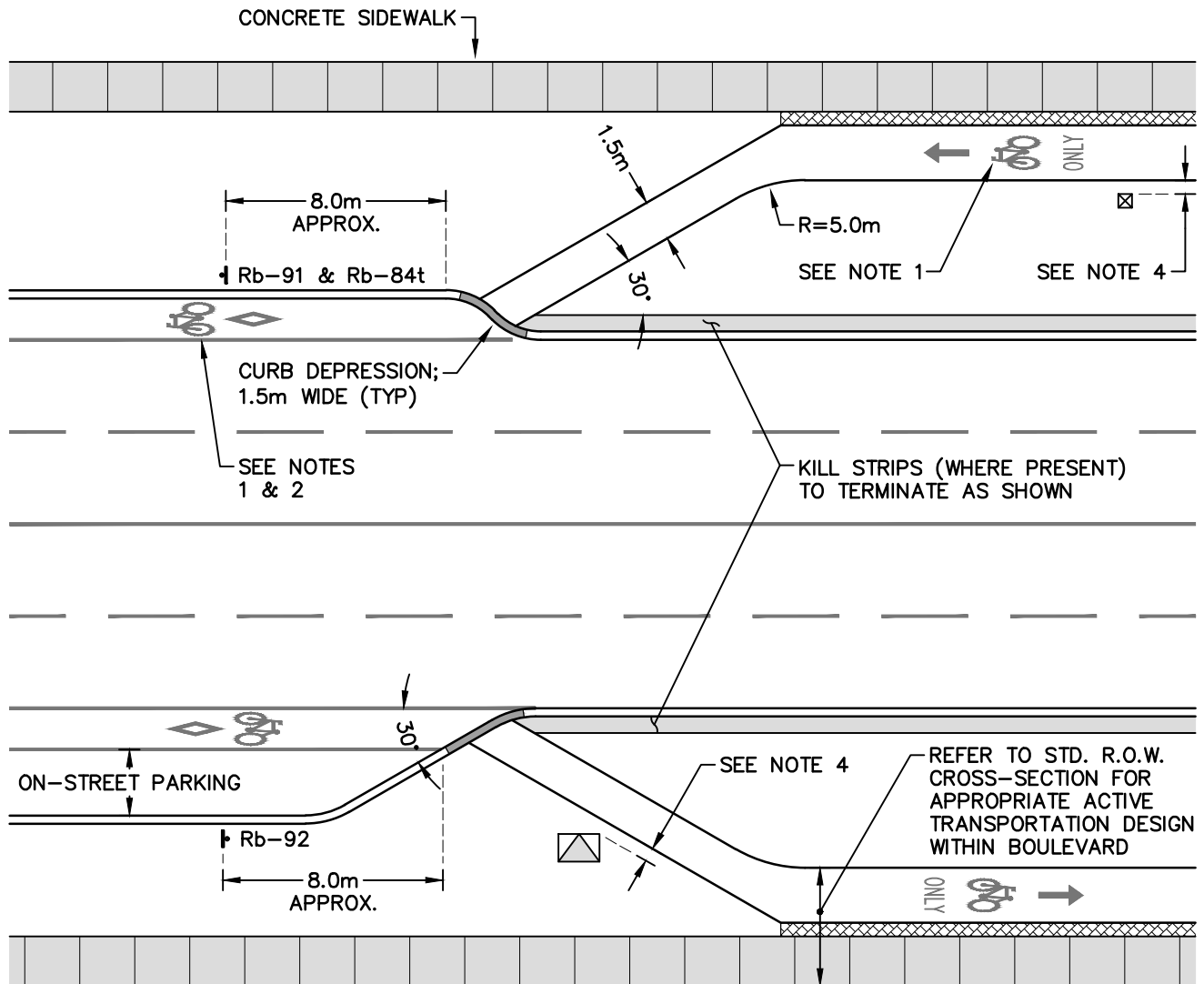
Rev. Date

2024/SEP

Standard No.

15-03.01





NOTES:

1. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH TAC BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA.
2. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH OTM BOOK 18 - CYCLING FACILITIES.
3. BEST EFFORTS SHALL BE MADE TO ALIGN BIKE LANE PAVEMENT MARKINGS WITH BIKE LANE SIGNAGE.
4. Rb-84t SHALL BE IN ACCORDANCE WITH OTM BOOK 5 - REGULATORY SIGNAGE.
5. A MINIMUM CLEARANCE OF 0.5m SHALL BE MAINTAINED ALONG BOULEVARD BIKE LANES AND TRANSITION RAMPS FROM ANY STREET FURNITURE, POLES, HYDRANTS, ETC.
6. BIKE LANE RUN-OFF SHALL PER TMSD 09.01.03. WHERE THERE IS CONFLICT WITH DRIVEWAYS, THE RUN-OFF IS TO BE CONSTRUCTED OF CONCRETE.

LEGEND

- ↑ Rb-91 RESERVED BICYCLE LANE SIGN
- ↑ Rb-92 RESERVED BICYCLE LANE ENDS SIGN
- ↑ Rb-84t RESERVED LANE BEGINS TAB

Title

**ON-STREET TO OFF-STREET
BIKE LANE
TRANSITION LAYOUT**

Scale

N.T.S.

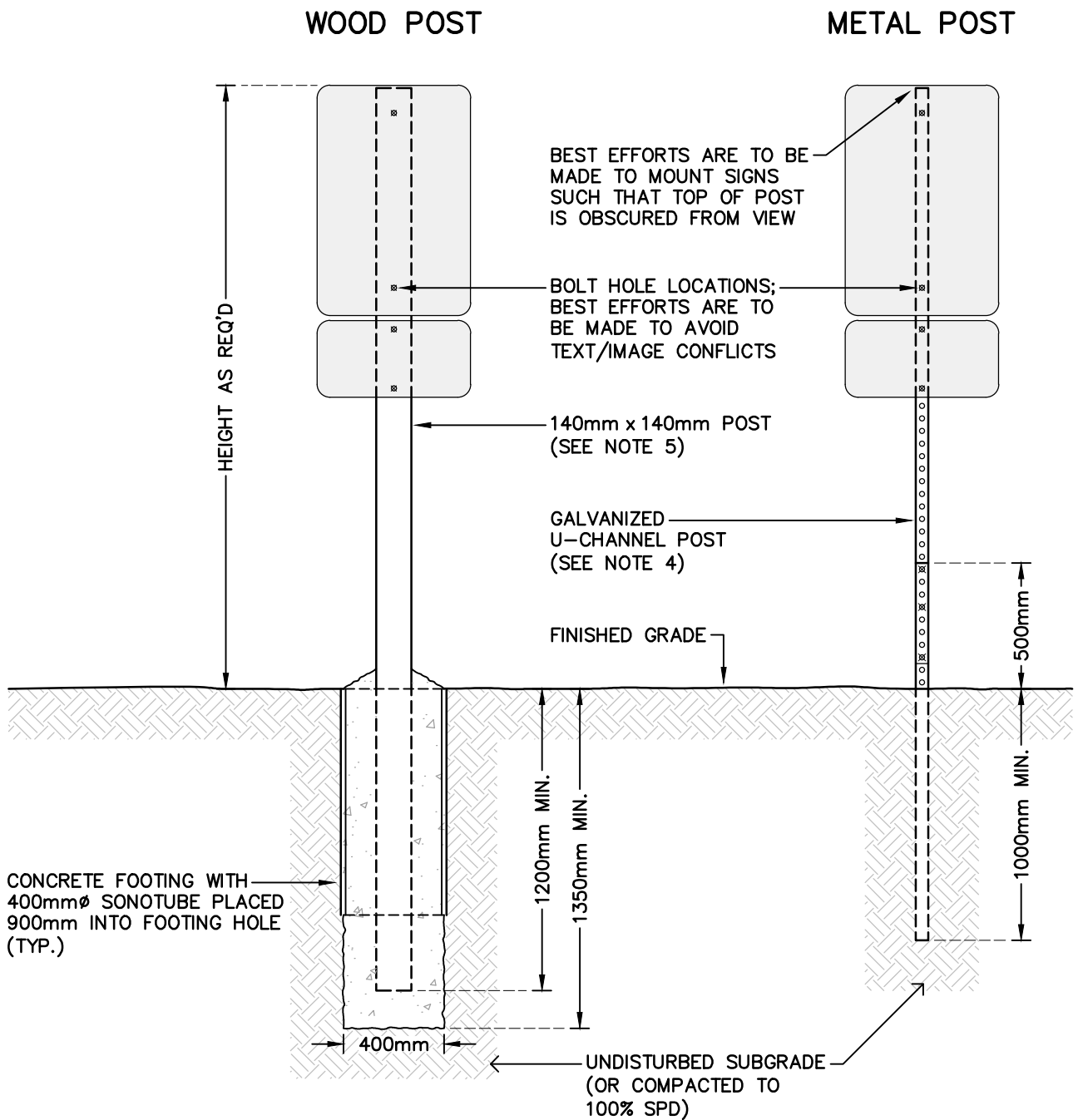
Rev. Date

2024/SEP

Standard No.

15-03.02





NOTES:

1. SIGNS TO BE FASTENED TO POST WITH ANTI-THEFT BOLTS.
2. BOLTS SHALL BE GALVANIZED AND CONFORM TO ASTM-A307.
3. ALL GALVANIZING SHALL BE HOT DIP IN CONFORMANCE WITH CSA STANDARD G164.
4. BASE SECTION OF U-CHANNEL POST TO BE 1.5m LONG WITH 1.0m SET IN GROUND. UPPER SECTION OF U-CHANNEL POST TO BE FASTENED TO BASE SECTION WITH 3 BOLTS, AND LENGTH AS REQUIRED.
5. WOOD SHALL BE PRESSURE TREATED SPF OR SELECT WESTERN CEDAR. ALL MEMBERS SHALL BE FREE OF WANE AND BARK POCKETS. ALL TORN GRAIN SHALL BE ELIMINATED BY SANDING AND PLANING.
6. ALL LUMBER SIZES ARE ACTUAL (RATHER THAN NOMINAL).
7. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30MP_a AT 28 DAYS WITH 5% TO 7% AIR ENTRAINMENT.

Title

**SINGLE POST
SIGN INSTALLATION**

Scale

1:25

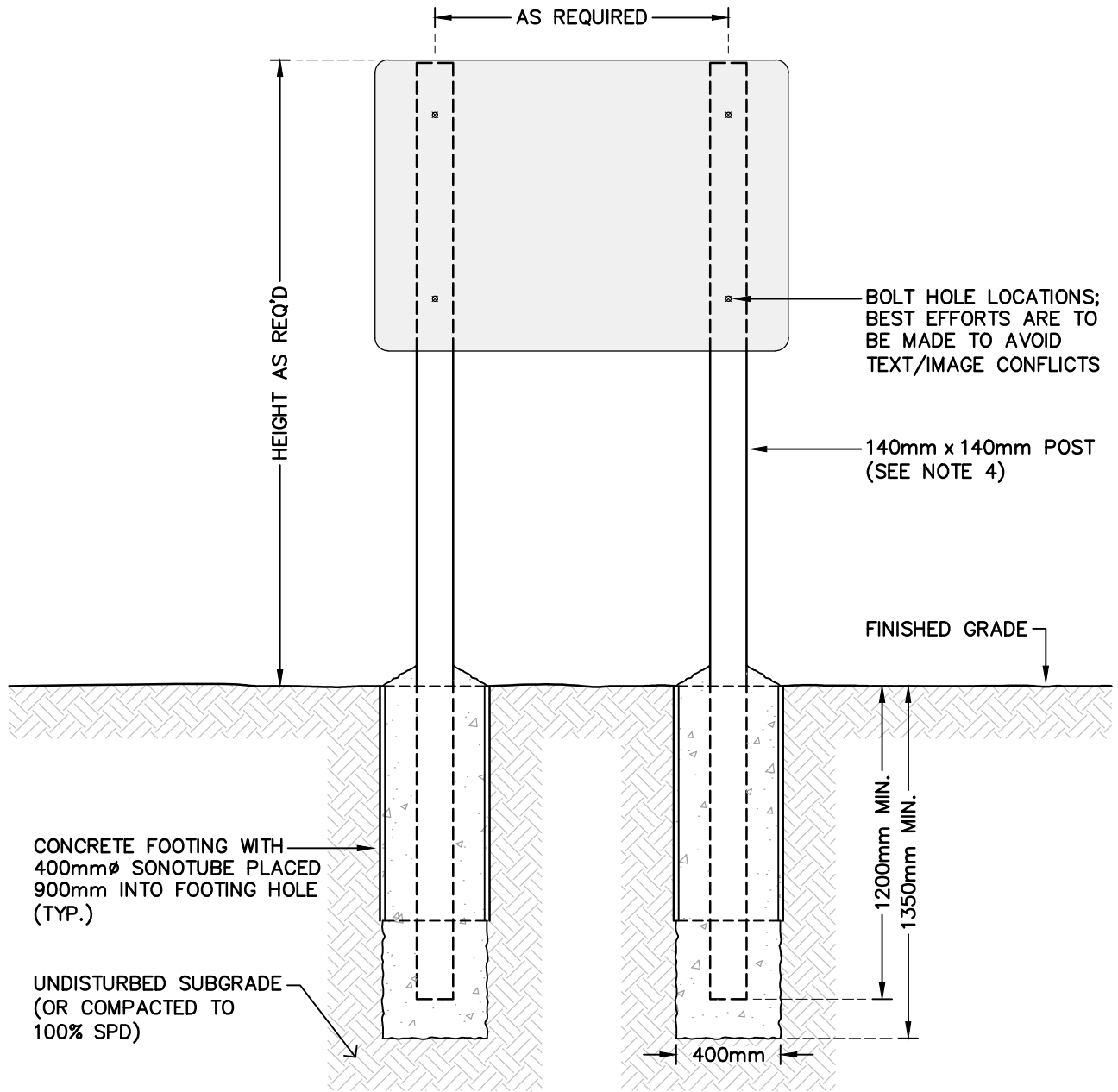
Rev. Date

2024/SEP

Standard No.

16-01.01





NOTES:

1. SIGNS TO BE FASTENED TO POST WITH ANTI-THEFT BOLTS.
2. BOLTS SHALL BE GALVANIZED AND CONFORM TO ASTM-A307.
3. ALL GALVANIZING SHALL BE HOT DIP IN CONFORMANCE WITH CSA STANDARD G164.
4. WOOD SHALL BE PRESSURE TREATED SPF OR SELECT WESTERN CEDAR. ALL MEMBERS SHALL BE FREE OF WANE AND BARK POCKETS. ALL TORN GRAIN SHALL BE ELIMINATED BY SANDING AND PLANING.
5. ALL LUMBER SIZES ARE ACTUAL (RATHER THAN NOMINAL).
6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 30MP α AT 28 DAYS WITH 5% TO 7% AIR ENTRAINMENT.

Title

**DUAL POST
SIGN INSTALLATION**

Scale

1:25

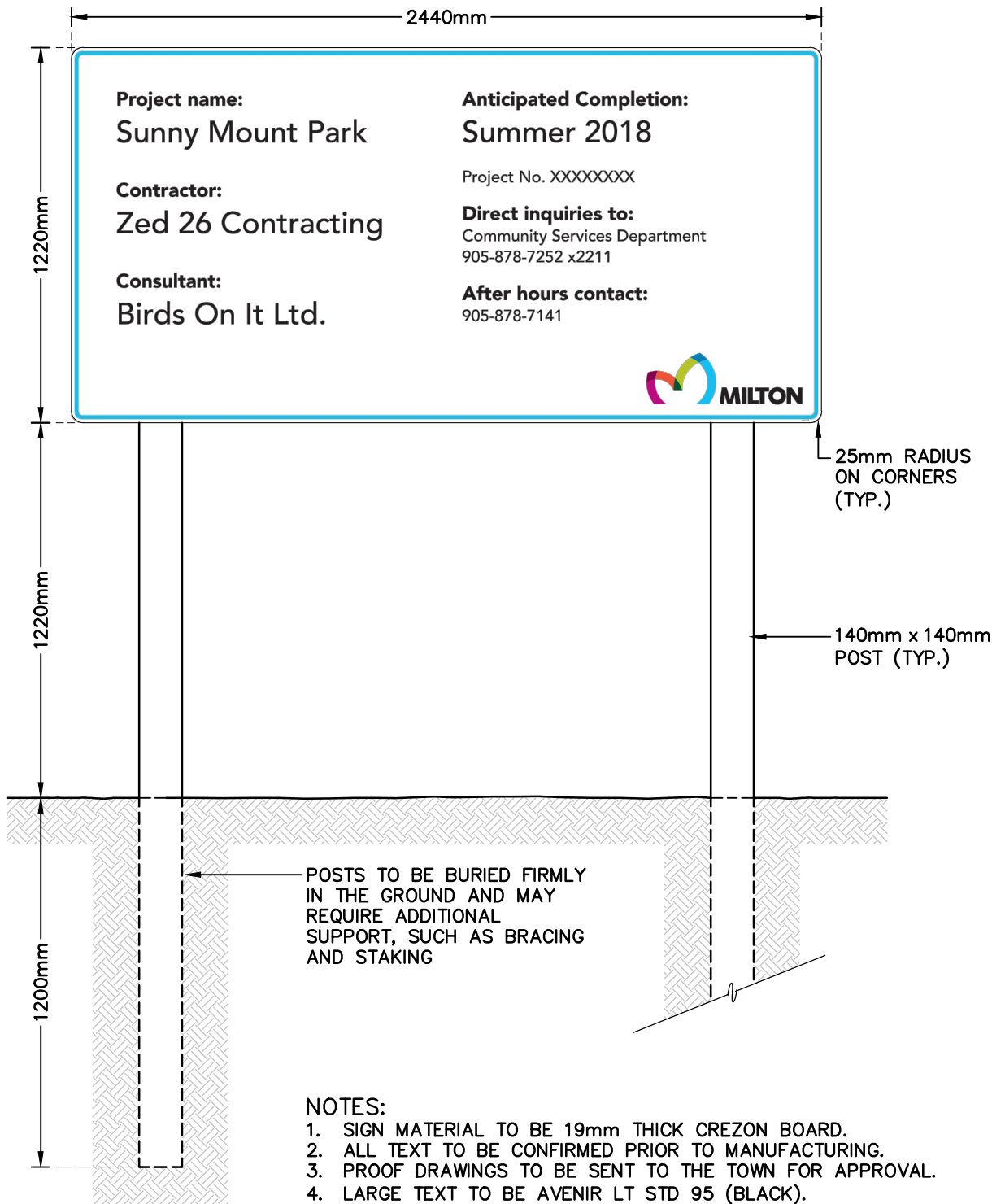
Rev. Date

2024/SEP

Standard No.

16-01.02





Project name:
Sunny Mount Park

Contractor:
Zed 26 Contracting

Consultant:
Birds On It Ltd.

Anticipated Completion:
Summer 2018

Project No. XXXXXXXX

Direct inquiries to:
Community Services Department
905-878-7252 x2211

After hours contact:
905-878-7141



NOTES:

1. SIGN MATERIAL TO BE 19mm THICK CREZON BOARD.
2. ALL TEXT TO BE CONFIRMED PRIOR TO MANUFACTURING.
3. PROOF DRAWINGS TO BE SENT TO THE TOWN FOR APPROVAL.
4. LARGE TEXT TO BE AVENIR LT STD 95 (BLACK).
5. SMALL TEXT TO BE AVENIR LT STD 65 (MEDIUM).
6. COLOURS USED: WHITE, BLACK, CMYK

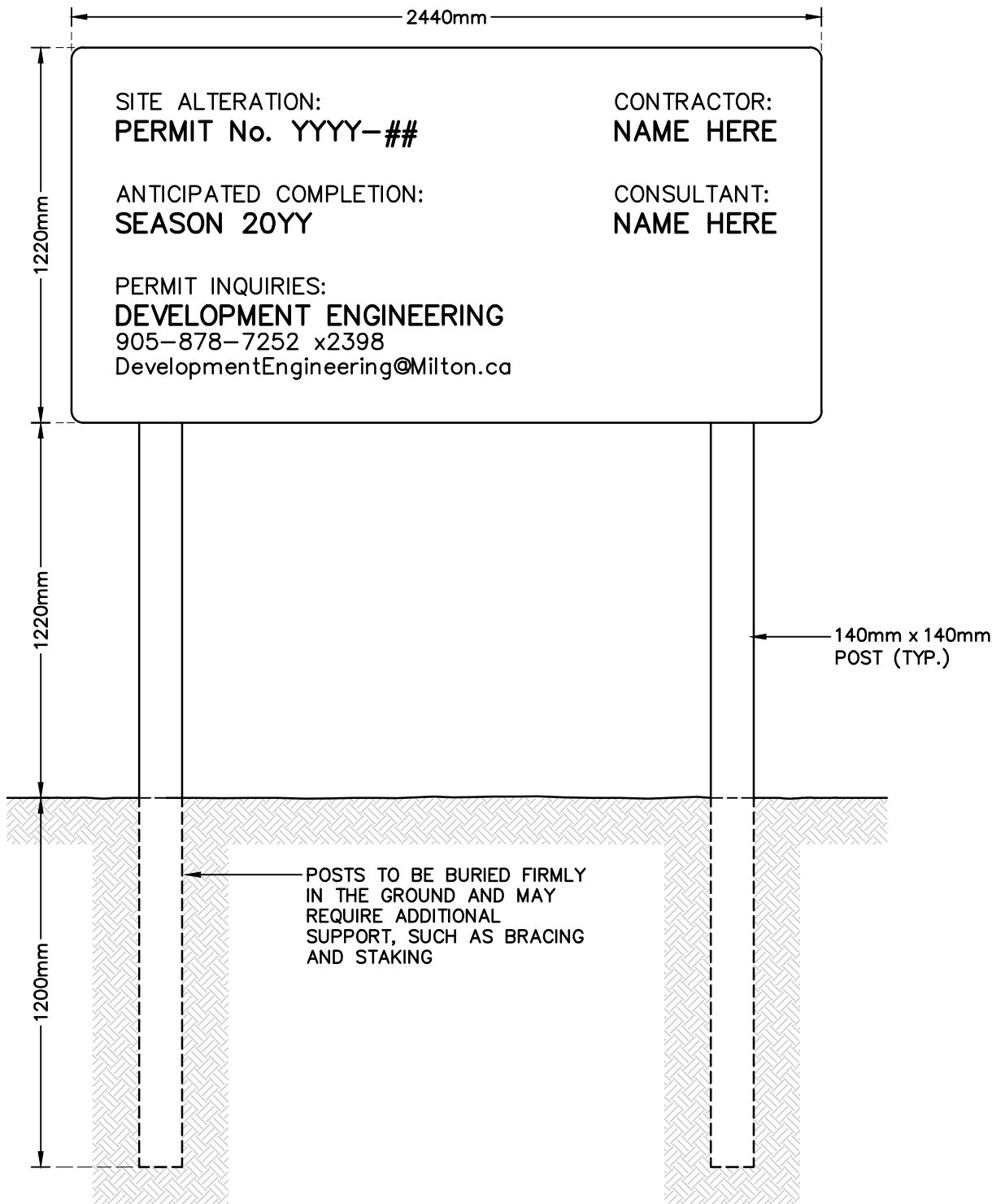
C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

Title

**CONSTRUCTION SIGN
(TEMPORARY CONDITION)**

Scale	1:20
Rev. Date	2024/SEP
Standard No.	16-02.01





NOTES:

1. SIGN MATERIAL TO BE 19mm THICK CREZON BOARD.
2. LARGE TEXT TO BE AVENIR LT STD 95 (BLACK).
3. SMALL TEXT TO BE AVENIR LT STD 65 (MEDIUM).
4. COLOURS USED: BLACK TEXT ON WHITE BACKGROUND.

Title

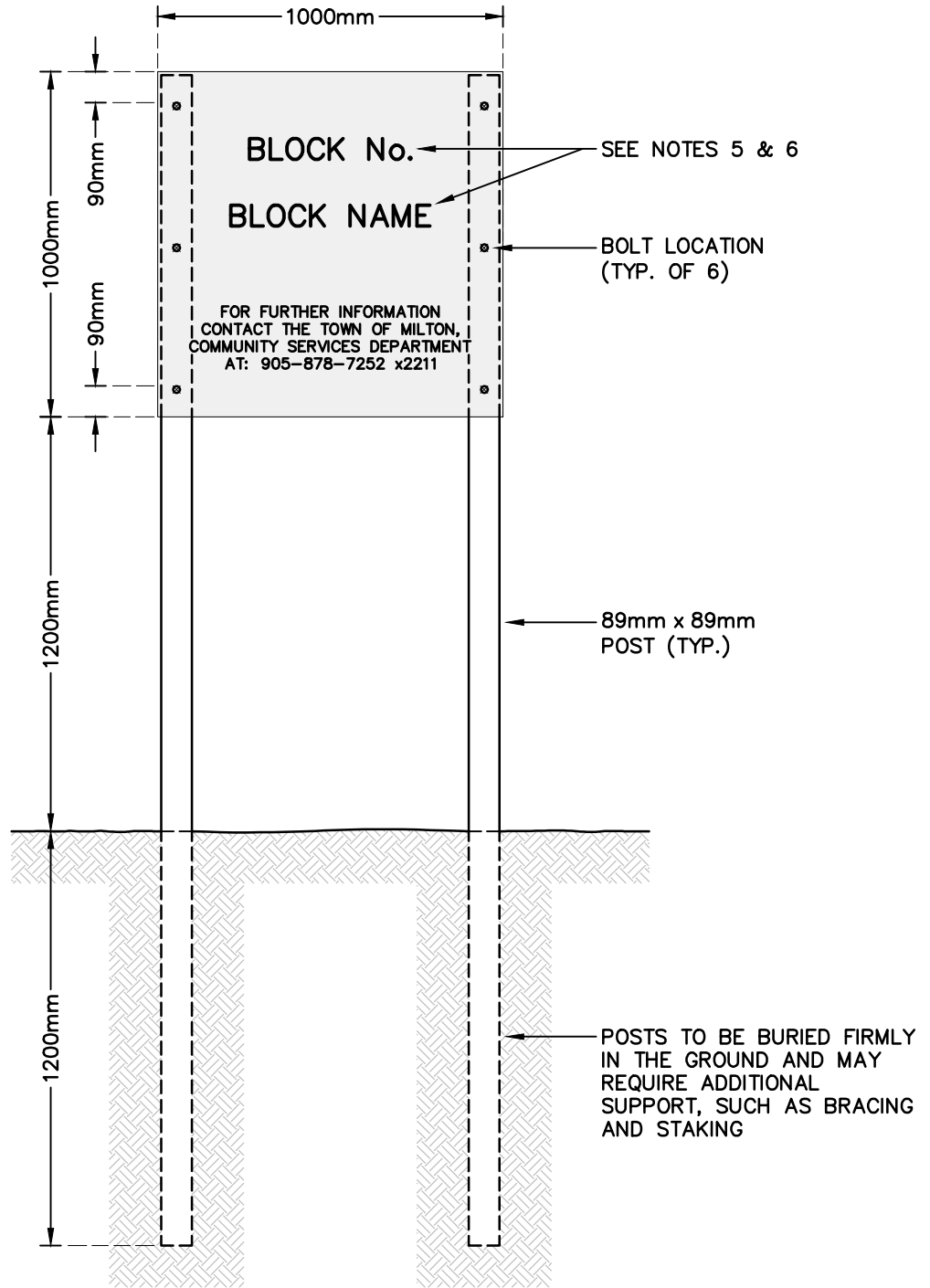
**SITE ALTERATION SIGN
(TEMPORARY CONDITION)**

Scale **1:20**

Rev. Date **2024/SEP**

Standard No. **16-02.02**





NOTES:

1. POSTS SHALL BE PRESSURE TREATED SPF.
3. SIGN MATERIAL TO BE 19mm THICK CREZON BOARD.
4. TEXT TO BE AVENIR LT STD 95 (BLACK).
5. THE BLOCK NUMBER AND NAME ARE TO BE INSERTED IN PLACE OF "BLOCK No." & "BLOCK NAME".
6. SIGN IS REQUIRED FOR: VILLAGE SQUARES, NEIGHBOURHOOD PARKS, DISTRICT PARKS, LINEAR PARKS, OPEN SPACE AREAS, & WOODLOTS
7. SIGN TO BE INSTALLED PRIOR TO ANY BUILDING PERMIT ISSUANCE WITHIN THE SUBJECT SUBDIVISION.
8. ONCE INSTALLED, A PHOTO OF THE SIGN IS TO BE PROVIDED TO COMMUNITY SERVICES.
9. SIGN TO REMAIN IN PLACE UNTIL NOTIFIED BY TOWN.

Title

**BLOCK ALLOCATION SIGN
(TEMPORARY CONDITION)**

Scale
1:20

Rev. Date
2024/SEP

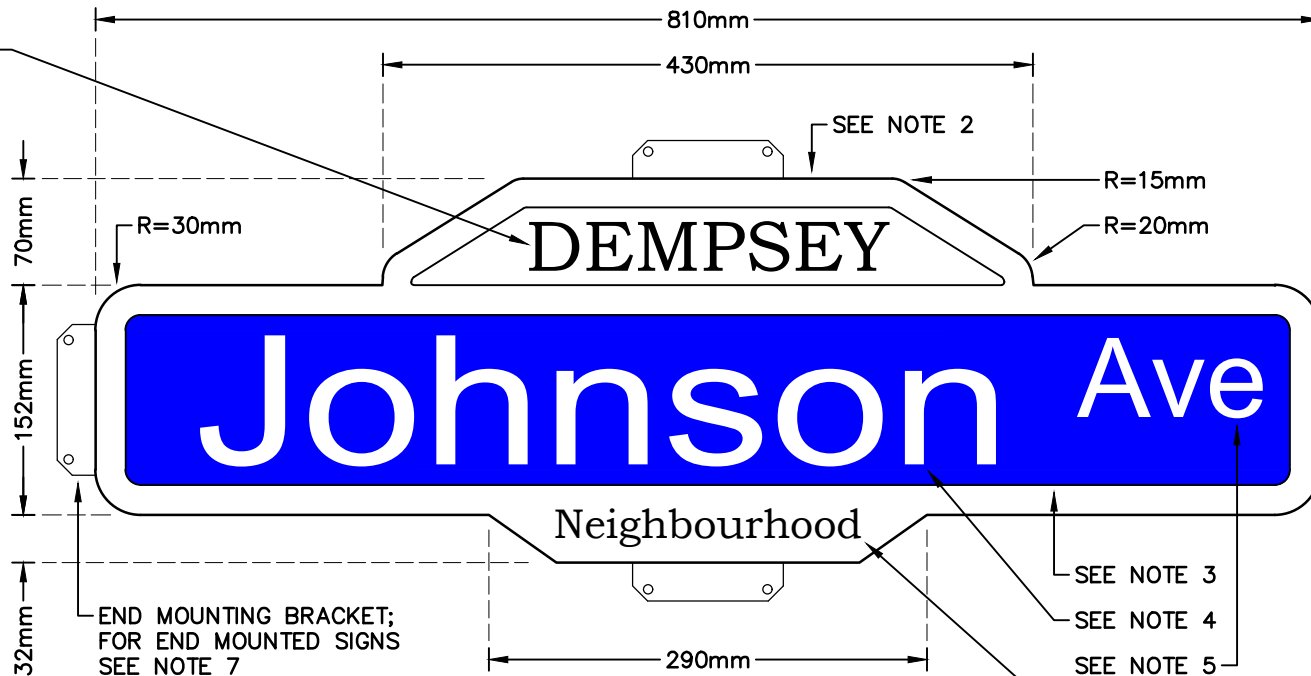
Standard No.
16-02.03



NAME TO BE USED ON FIRST SIGNS
AT ENTRANCES TO A NEIGHBOURHOOD.
NAME CAN BE REPLACED WITH A
LOGO ON INTERIOR SIGNAGE.
SEE LOGO EXAMPLE (BELOW).



NEIGHBOURHOOD LOGO
SCALE: N.T.S.



NEIGHBOURHOOD NAME
SCALE: 1:5

NOTES:

1. ALUMINUM BLANK:
 - 254mm TALL, 3.1mm THICK (HEIGHT INCLUDES 70mm ON TOP & 32mm ON BOTTOM)
2. WHITE BORDER:
 - 19mm WIDTH
3. BACKGROUND:
 - BLUE, ENGINEERING GRADE
4. STREET NAME:
 - WHITE, REFLECTIVE
 - UPPER AND LOWER CASE 'HELVETICA MEDIUM' FONT
 - 100mm HEIGHT
5. STREET SUFFIX:
 - WHITE, REFLECTIVE
 - UPPER AND LOWER CASE 'HELVETICA MEDIUM' FONT
 - 40mm HEIGHT
6. NEIGHBOURHOOD NAME:
 - BLACK
 - UPPER AND LOWER CASE 'CENTURY SCHOOLBOOK' FONT
7. ADDITIONAL 38mm ON END OF SIGN FOR ENDMOUNTING.

Title

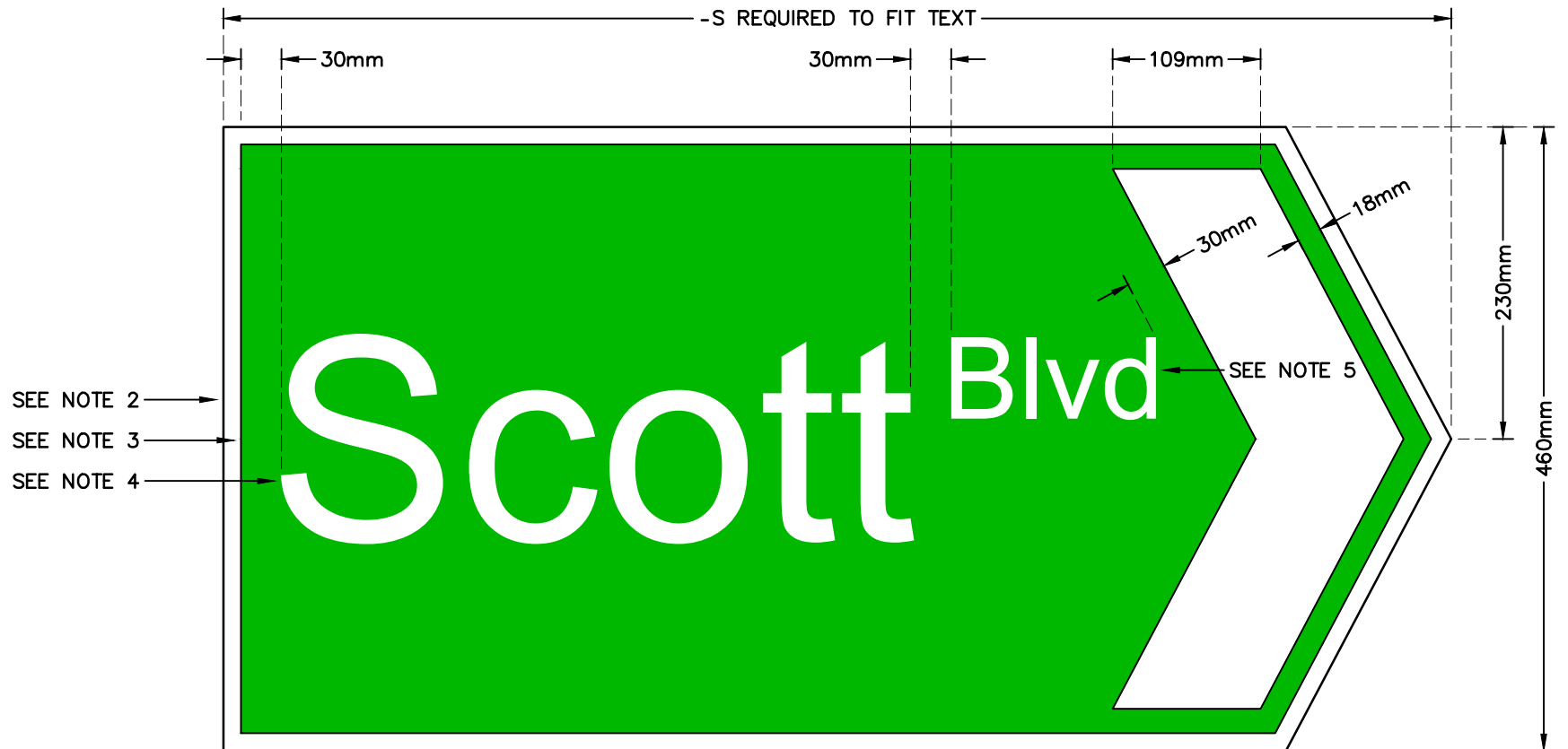
DECORATIVE
STREET NAME SIGN

Scale
AS NOTED

Rev. Date
2024/SEP

Standard No.
16-03.01





NOTES:

- | | | |
|---|--|--|
| <p>1. -LUMINUM BL-NK:
- 460mm T-LL, 3.1mm THICK</p> <p>2. WHITE BORDER:
- 13mm WIDTH</p> <p>3. B-CKGROUND:
- GREEN, ENGINEERING GR-DE</p> | <p>4. STREET N-ME:
- WHITE, REFLECTIVE
- UPPER -ND LOWER C-SE
'HELVETIC- MEDIUM' FONT
- 150mm HEIGHT</p> | <p>5. STREET SUFFIX:
- WHITE, REFLECTIVE
- UPPER -ND LOWER C-SE 'HELVETIC- MEDIUM' FONT
- 60mm HEIGHT
- ST-ND-RD SUFFIXES: -ve, Blvd, Cr, Ct, Pl, Rd, St, Terr</p> |
|---|--|--|

Title

**ROUNABOUT
STREET NAME SIGN**

Scale	1:5
Rev. Date	2024/SEP
Standard No.	16-03.02





NOTES:

1. ALUMINUM BLANK:
 - 600mm x 600mm, 2.05mm THICK
2. BLACK BORDERS:
 - 10mm WIDTH
3. BACKGROUND:
 - WHITE, 3M SCOTCHLITE ENGINEER GRADE
5. TEXT FONT:
 - OPTIC-U/HYROADD

Title

**SUPPLEMENTARY
PARKING SIGN**

Scale

1:5

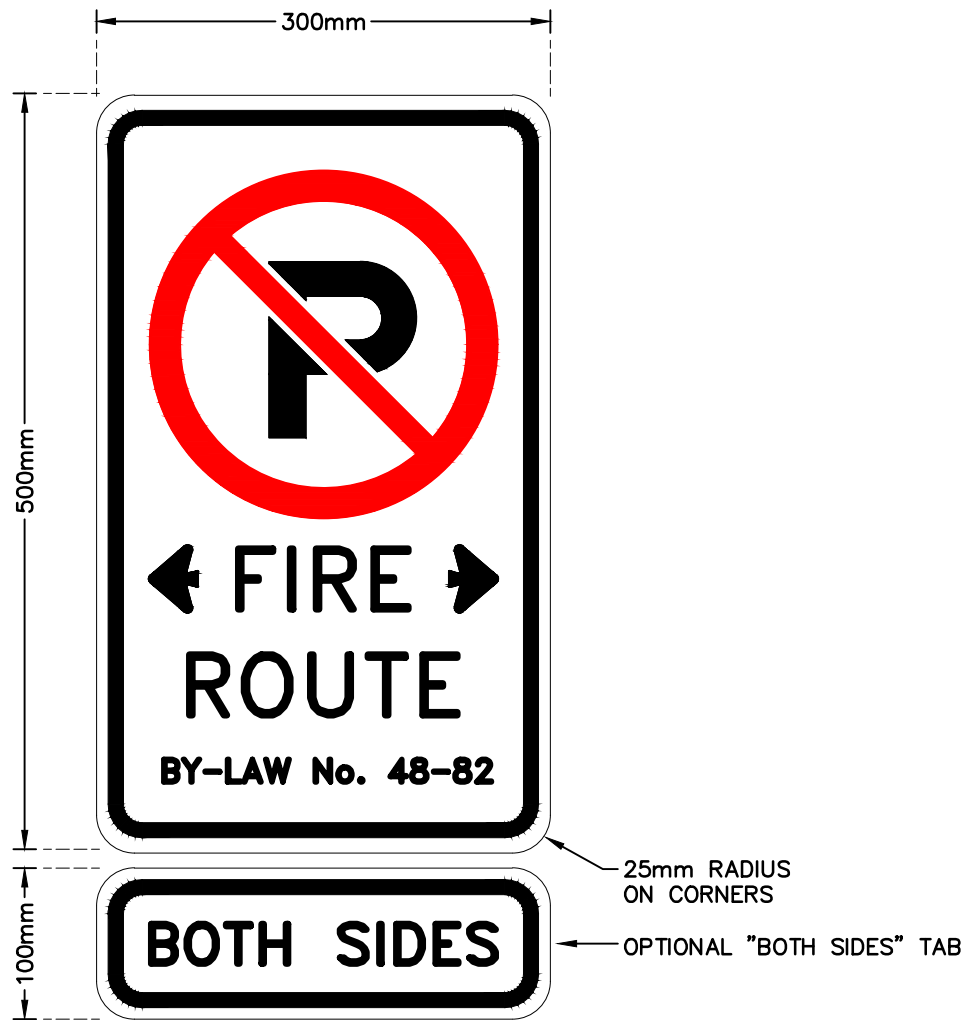
Rev. Date

2024/SEP

Standard No.

16-04.01





NOTES:

1. ALUMINUM BLANK:
- 300mm x 500mm, 2.05mm THICK
2. BLACK BORDERS:
- 10mm WIDTH
3. BACKGROUND:
- WHITE, 3M SCOTCHLITE ENGINEER GRADE
5. TEXT FONT:
- OPTIC-U/HYROADD

Title

**'FIRE ROUTE'
SIGN**

Scale

1:5

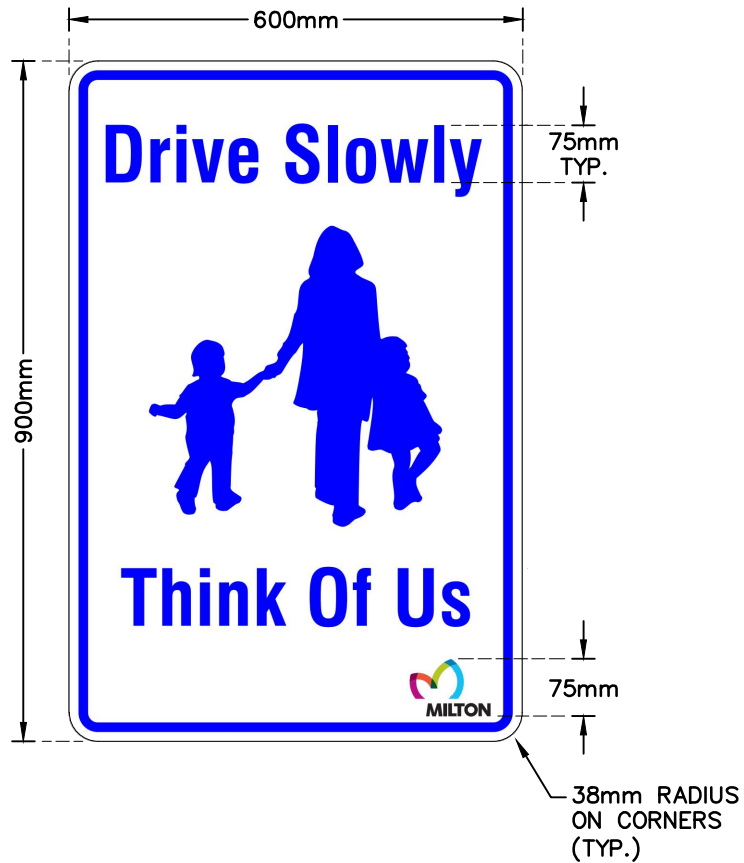
Rev. Date

2024/SEP

Standard No.

16-04.02





NOTES:

1. ALUMINUM BLANK:
- 900mm x 600mm, 2.05mm THICK
2. BLUE BORDERS:
- 10mm WIDTH
3. BACKGROUND:
- WHITE
4. TEXT FONT:
- HEAVYBC

Title

**'DRIVE SLOWLY THINK OF US'
SIGN**

Scale

1:10

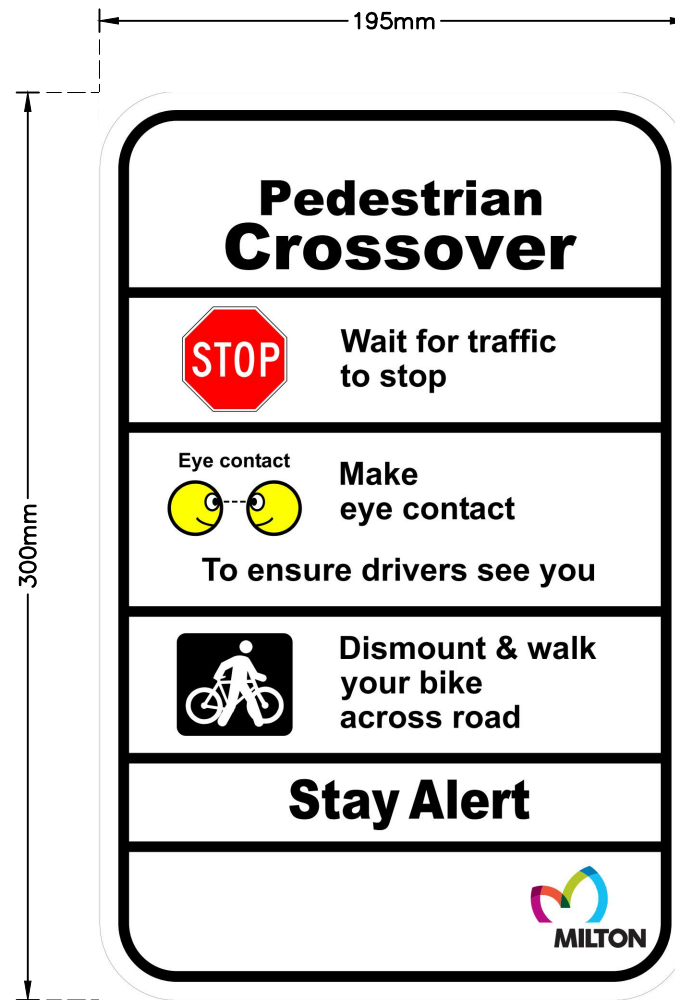
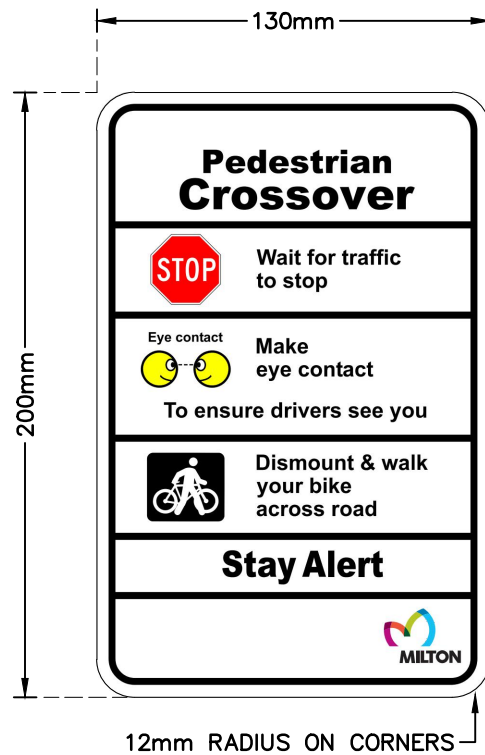
Rev. Date

2024/SEP

Standard No.

16-04.03





NOTES:

1. CONTACT DEVELOPMENT ENGINEERING FOR HIGH DEFINITION IMAGES OF SIGNS.
2. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
3. COLOURS USED: WHITE, BLACK, CMYK

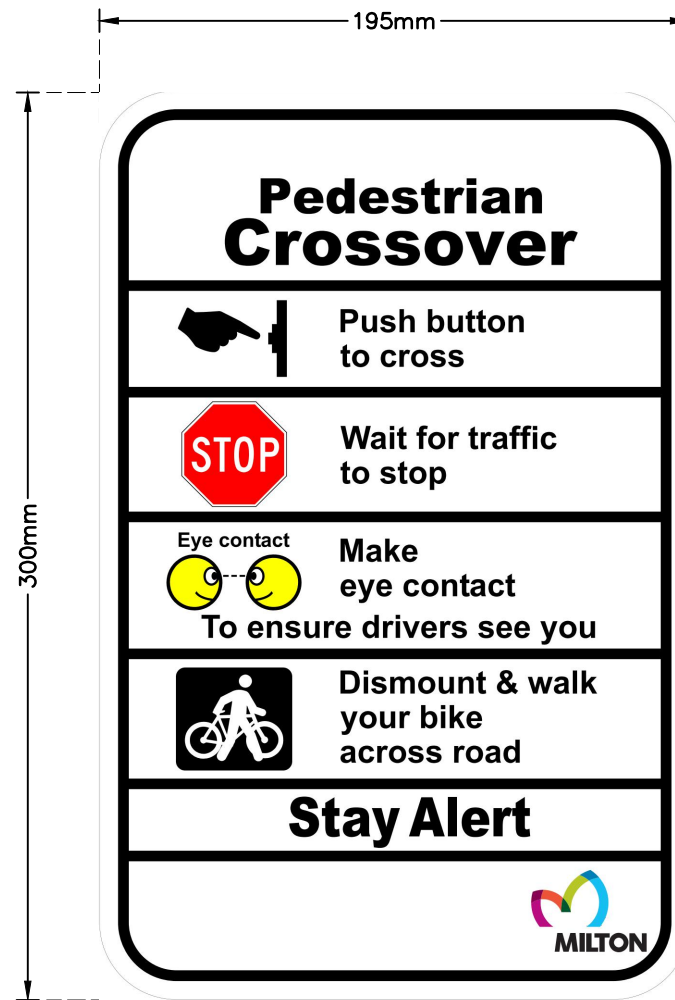
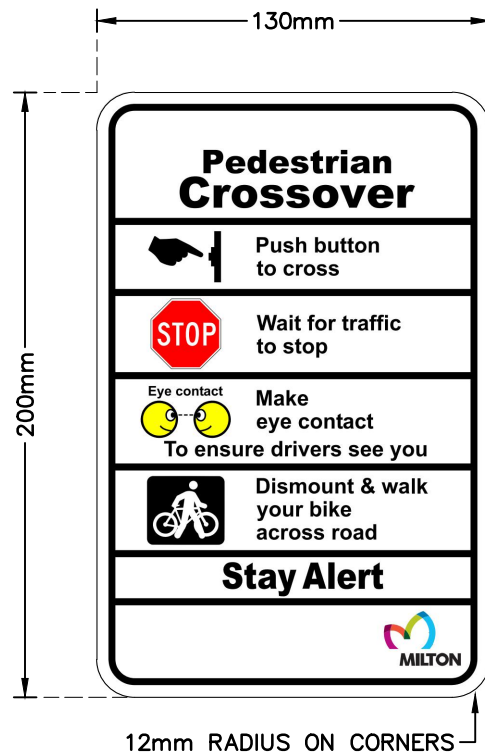
C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

Title

**PXO INFORMATION SIGNS
(UNSIGNALIZED)**

Scale	1:2.5
Rev. Date	2024/SEP
Standard No.	16-05.01





NOTES:

1. CONTACT DEVELOPMENT ENGINEERING FOR HIGH DEFINITION IMAGES OF SIGNS.
2. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
3. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

Title

**PXO INFORMATION SIGNS
(SIGNALIZED)**

Scale	1:2.5
Rev. Date	2024/SEP
Standard No.	16-05.02



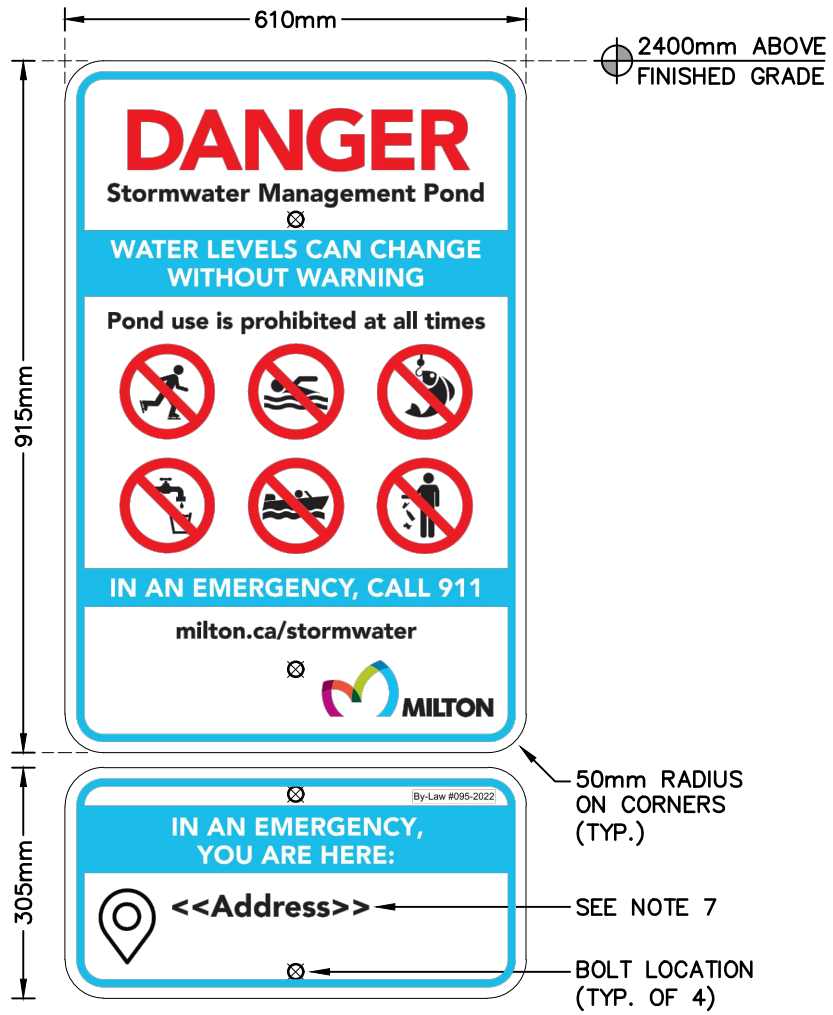


NOTES:

1. FOR INSTALLATION DETAILS, REFER TO STANDARD DRAWING E-XX.
2. SIGN TO BE INSTALLED AT ALL DEAD-END ROADS PLANNED TO BE EXTENDED IN THE.
3. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
4. TEXT TO BE AVENIR LT STD 95 (BLACK).
5. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

STUB ROAD SIGN	Scale 1: 2.5	
	Rev. Date 2024/SEP	
	Standard No. 16-06.01	




NOTES:

1. FOR INSTALLATION DETAILS, REFER TO STANDARD DRAWING 16-01.01.
2. SIGNS TO BE INSTALLED AT ALL POND BLOCK ACCESS POINTS.
3. BOLT CONFIGURATION AS SHOWN TO ENSURE LEGIBILITY OF SIGN IS NOT COMPROMISED.
4. CONTACT DEVELOPMENT ENGINEERING FOR HIGH DEFINITION IMAGES OF SIGNS.
5. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
6. TEXT TO BE AVENIR LT STD 95 (BLACK).
7. THE MUNICIPAL ADDRESS IS TO BE INSERTED IN PLACE OF "<<Address>>". MUNICIPAL ADDRESS TO BE CONFIRMED WITH TOWN STAFF PRIOR TO FABRICATION.
8. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

<h1 style="margin: 0;">SWM POND SAFETY SIGNS</h1>	Scale 1:10	
	Rev. Date 2024/SEP	
	Standard No. 16-07.01	

1220mm



Stormwater Management Ponds

Designed to protect our natural wetlands, creeks and lakes

2100mm ABOVE
FINISHED GRADE

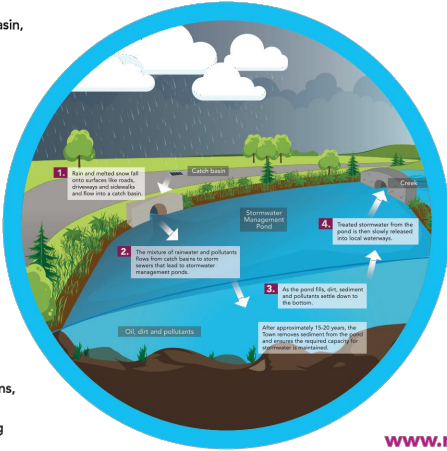
Stormwater is rain and melted snow that's unable to flow into the ground due to hard surfaces like roads, driveways and sidewalks. A **stormwater management pond** is engineered infrastructure built to collect and treat stormwater. The ponds are commonly found in neighbourhoods.

How does it work?

Stormwater flows down a catchbasin, through storm sewers and into a stormwater management pond. The stormwater pond provides flood protection, reduces erosion in downstream watercourses and improves water quality. The pond is designed to store the stormwater for a period of time to allow for some sediment and urban contaminants such as road salt to settle. As the pond fills with more stormwater, the cleaner water is released to natural waterways, such as Sixteen Mile Creek.

Benefits:

- + Protects the natural environment from pollutants and erosion
- + Reduces flooding
- + Provides habitat to amphibians, reptiles and birds
- + Naturalized space for walking and bird watching



How you can help:

- ✗ Do not put anything down catch basins or in a pond
- ✗ Do not cut or remove plants
- ✗ Do not engage in recreational activities such as skating, fishing, swimming or boating in or around the pond
- ✗ Do not litter
- ✓ Clean up after your pets
- ✓ Report illegal dumping to the Town by calling **905-878-7252**

www.milton.ca/stormwater

915mm

⊗ BOLT LOCATION (TYP. OF 4)

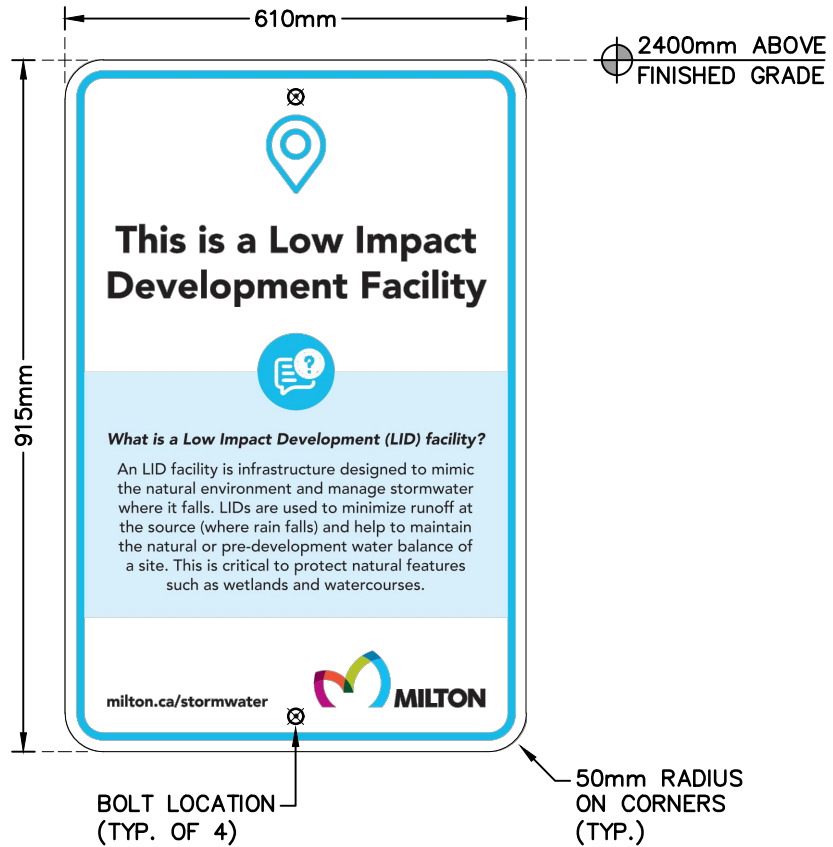
50mm RADIUS ON CORNERS (TYP.)

NOTES:

1. FOR INSTALLATION DETAILS, REFER TO TMSD 16-01.02.
2. CONTACT DEVELOPMENT ENGINEERING FOR HIGH DEFINITION IMAGES OF SIGN.
3. SIGN LOCATION(S) TO BE DETERMINED BY DEVELOPMENT ENGINEERING.
4. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
5. TEXT TO BE AVENIR LT STD 95 (BLACK).
6. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

<h1 style="margin: 0;">SWM POND INFORMATION SIGN</h1>	<p>Scale 1:10</p>	
	<p>Rev. Date 2024/SEP</p>	
	<p>Standard No. 16-07.02</p>	

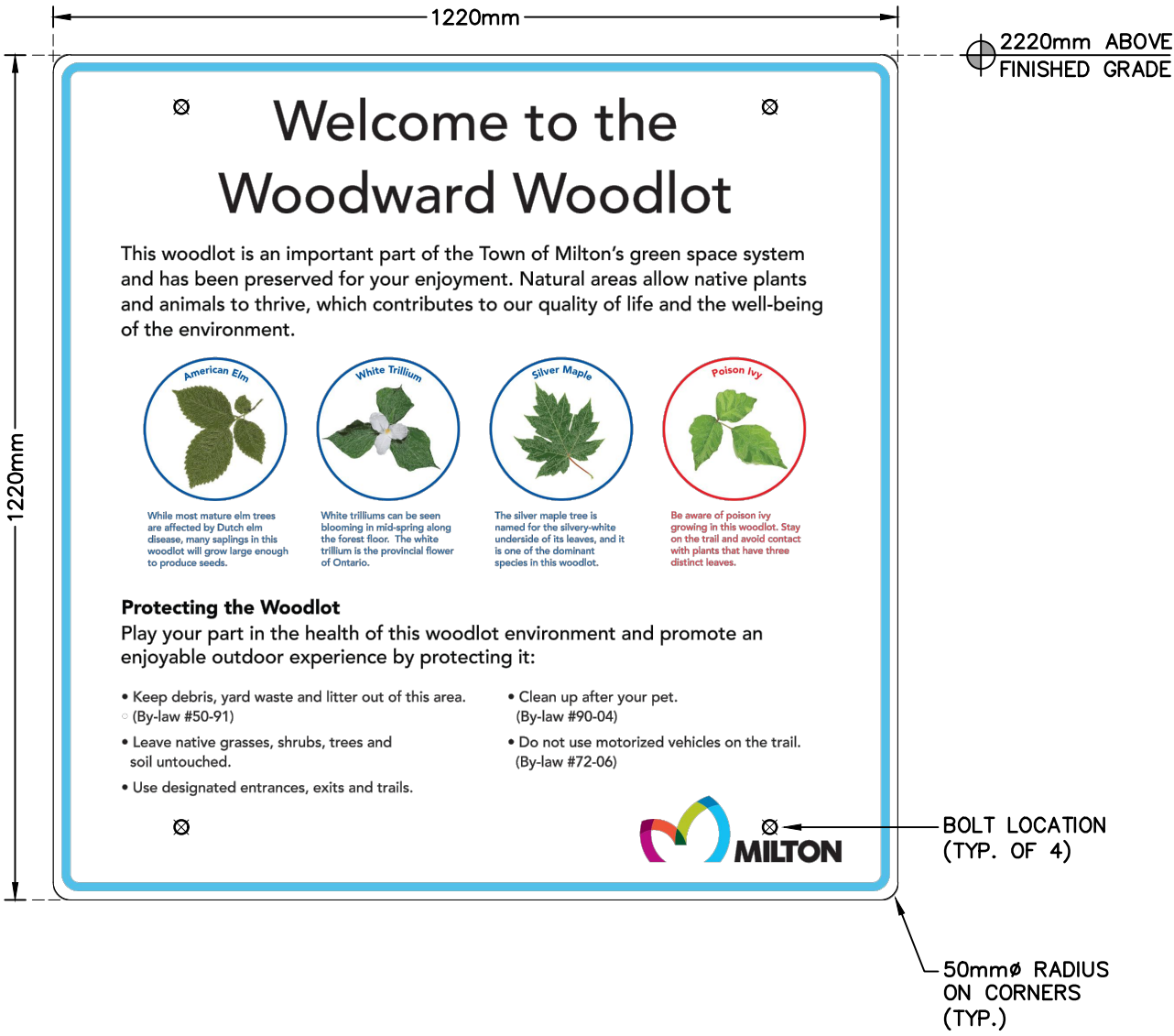


NOTES:

1. FOR INSTALLATION DETAILS, REFER TO STANDARD DRAWING 16-01.01.
2. SIGN TO BE INSTALLED AT LOW IMPACT DEVELOPMENT FEATURES.
3. BOLT CONFIGURATION AS SHOWN TO ENSURE LEGIBILITY OF SIGN IS NOT COMPROMISED.
4. CONTACT DEVELOPMENT ENGINEERING FOR HIGH DEFINITION IMAGES OF SIGNS.
5. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
6. TEXT TO BE AVENIR LT STD 95 (BLACK).
7. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

<h1>SWM POND SAFETY SIGNS</h1>	Scale 1:10	
	Rev. Date 2024/SEP	
	Standard No. 16-08.01	

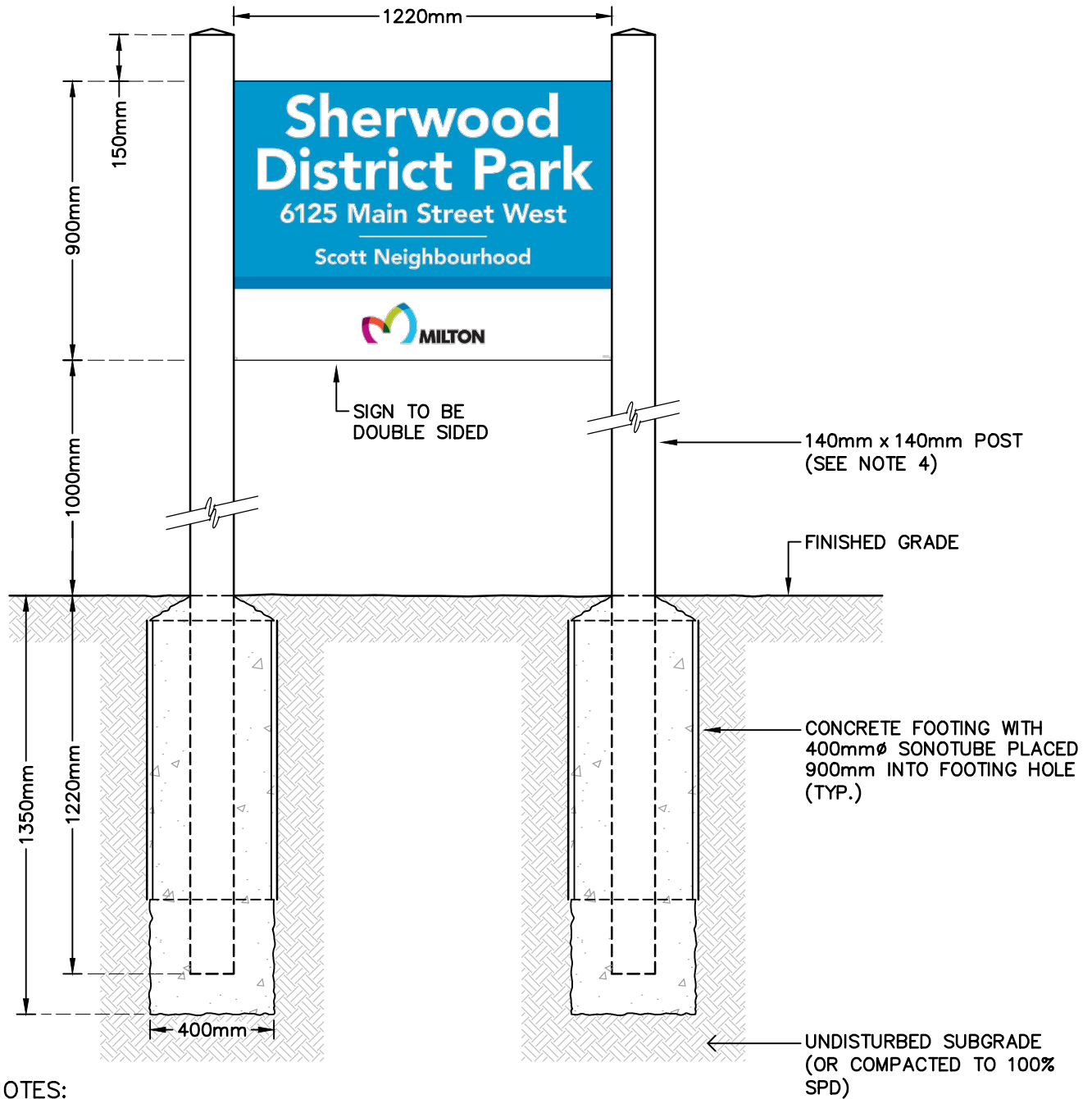


NOTES:

1. FOR INSTALLATION DETAILS, REFER TO STANDARD DRAWING E-XX.
2. CONTACT PARKS & FACILITIES PLANNING FOR HIGH DEFINITION IMAGES OF SIGN.
3. PROOF DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO MANUFACTURING.
4. SIGN LOCATION(S) TO BE APPROVED BY TOWN PRIOR TO INSTALLATION.
5. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
6. TEXT TO BE AVENIR LT STD 95 (BLACK).
7. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

<p>WOODLOT INFORMATION SIGN</p>	Scale 1:10	
	Rev. Date 2024/SEP	
	Standard No. 16-09.01	



NOTES:

1. ALL TEXT TO BE CONFIRMED PRIOR TO MANUFACTURING.
2. PROOF DRAWINGS TO BE SENT TO THE TOWN FOR APPROVAL.
4. WOOD SHALL BE PRESSURE TREATED SPF OR SELECT WESTERN CEDAR. ALL MEMBERS SHALL BE FREE OF WANE AND BARK POCKETS. ALL TORN GRAIN SHALL BE ELIMINATED BY SANDING AND PLANING.
5. ALL LUMBER SIZES ARE ACTUAL (RATHER THAN NOMINAL).
6. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
7. TEXT TO BE AVENIR LT STD 95.
8. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

Title

PARK ENTRANCE SIGN

Scale

1:20

Rev. Date

2024/SEP

Standard No.

16-10.01





NOTES:

1. SIGN MAY BE INSTALLED ON A LIGHT STANDARD. TO INSTALL ON A POST, REFER TO STANDARD DRAWING 16-01.01.
2. SPECIFIC LOCATIONS TO BE DETERMINED ON SITE BY TOWN STAFF.
3. LOCATION TO BE APPROVED BY TOWN PRIOR TO INSTALLATION.
4. ALL TEXT TO BE CONFIRMED PRIOR TO MANUFACTURING.
5. PROOF DRAWINGS TO BE SUBMITTED TO TOWN FOR APPROVAL.
6. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
7. TEXT TO BE AVENIR LT STD 95 (BLACK).
8. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

Title

PARK REGULATORY SIGN

Scale **1:5**

Rev. Date **2024/SEP**

Standard No. **16-10.02**






NOTES:

- SIGN MAY BE INSTALLED ON A LIGHT STANDARD. TO INSTALL ON A POST, REFER TO STANDARD DRAWING 16-01.01.
- SPECIFIC LOCATIONS TO BE DETERMINED ON SITE BY TOWN STAFF.
- LOCATION TO BE APPROVED BY TOWN PRIOR TO INSTALLATION.
- ALL TEXT TO BE CONFIRMED PRIOR TO MANUFACTURING.
- PROOF DRAWINGS TO BE SUBMITTED TO TOWN FOR APPROVAL.
- SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
- TEXT TO BE AVENIR LT STD 95 (BLACK).
- COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

<p>Title</p> <p>PLAYGROUND INSPECTION SIGN</p>	Scale	1:5	
	Rev. Date	2024/SEP	
	Standard No.	16-10.03	

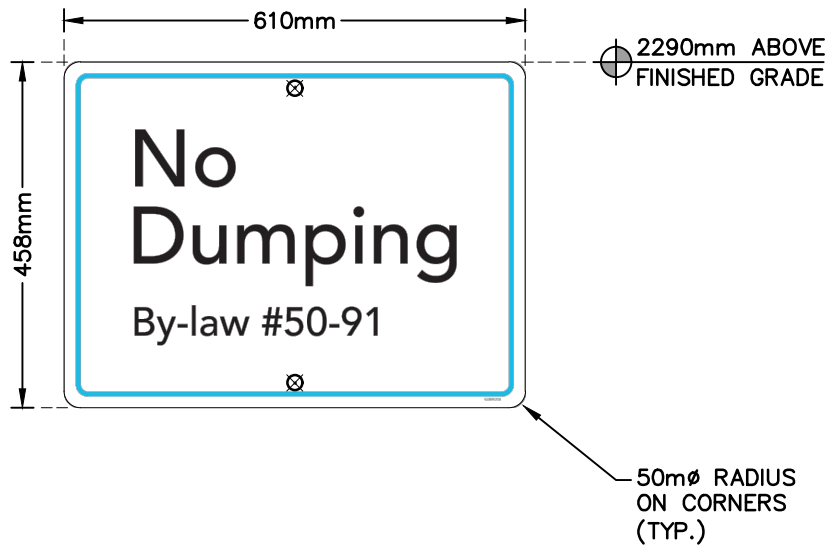


NOTES:

1. SIGN MAY BE INSTALLED ON A LIGHT STANDARD. TO INSTALL ON A POST, REFER TO STANDARD DRAWING 16-01.01.
2. SPECIFIC LOCATIONS TO BE DETERMINED ON SITE BY TOWN STAFF.
3. LOCATION TO BE APPROVED BY TOWN PRIOR TO INSTALLATION.
4. ALL TEXT TO BE CONFIRMED PRIOR TO MANUFACTURING.
5. PROOF DRAWINGS TO BE SUBMITTED TO TOWN FOR APPROVAL.
6. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
7. TEXT TO BE AVENIR LT STD 95 (BLACK).
8. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

<h1>SPRAY PAD INSPECTION SIGN</h1>	Scale 1:5	
	Rev. Date 2024/SEP	
	Standard No. 16-10.04	

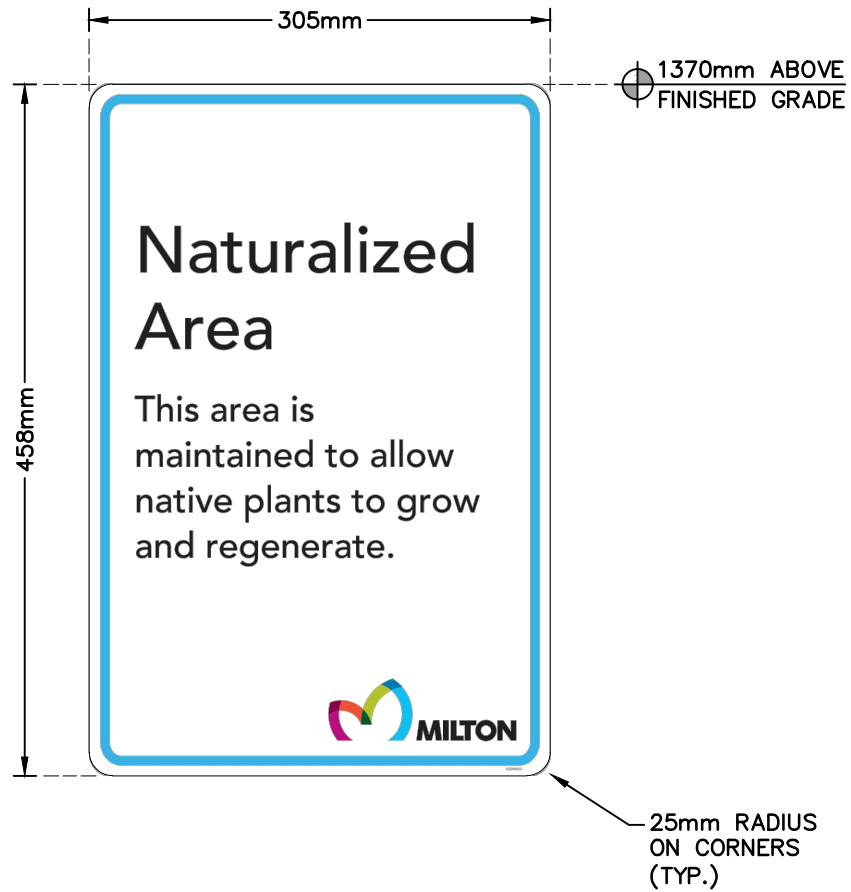


NOTES:

1. FOR INSTALLATION DETAILS, REFER TO STANDARD DRAWING E-XX.
2. AT THE DISCRETION OF THE TOWN, THIS SIGN MAY BE REQUIRED AT WOODLOT EDGES, PARKS, AND OTHER OPEN SPACE AREAS.
3. SPECIFIC LOCATIONS TO BE DETERMINED ON SITE BY TOWN STAFF.
4. PROOF DRAWINGS TO BE SUBMITTED TO TOWN FOR APPROVAL.
5. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
6. TEXT TO BE AVENIR LT STD 95 (BLACK).
7. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

NO DUMPING SIGN	Scale 1:10	 MILTON
	Rev. Date 2024/SEP	
	Standard No. 16-11.01	



NOTES:

1. FOR INSTALLATION DETAILS, REFER TO STANDARD DRAWING 16-01.01.
2. SPECIFIC LOCATIONS TO BE DETERMINED ON SITE BY TOWN STAFF.
3. SIGN MATERIAL TO BE 2.052mm THICK ALUMINUM (BAKED WHITE).
4. TEXT TO BE AVENIR LT STD 95 (BLACK).
5. COLOURS USED: WHITE, BLACK, CMYK

C:67 M:2 Y:2 K:2	C:0 M:100 Y:100 K:0	C:18 M:100 Y:0 K:8
C:100 M:22 Y:2 K:18	C:1 M:83 Y:85 K:0	C:82 M:16 Y:85 K:56
C:26 M:1 Y:100 K:10	C:16 M:100 Y:14 K:42	

Title

NATURALIZED AREA SIGN

Scale

1:5

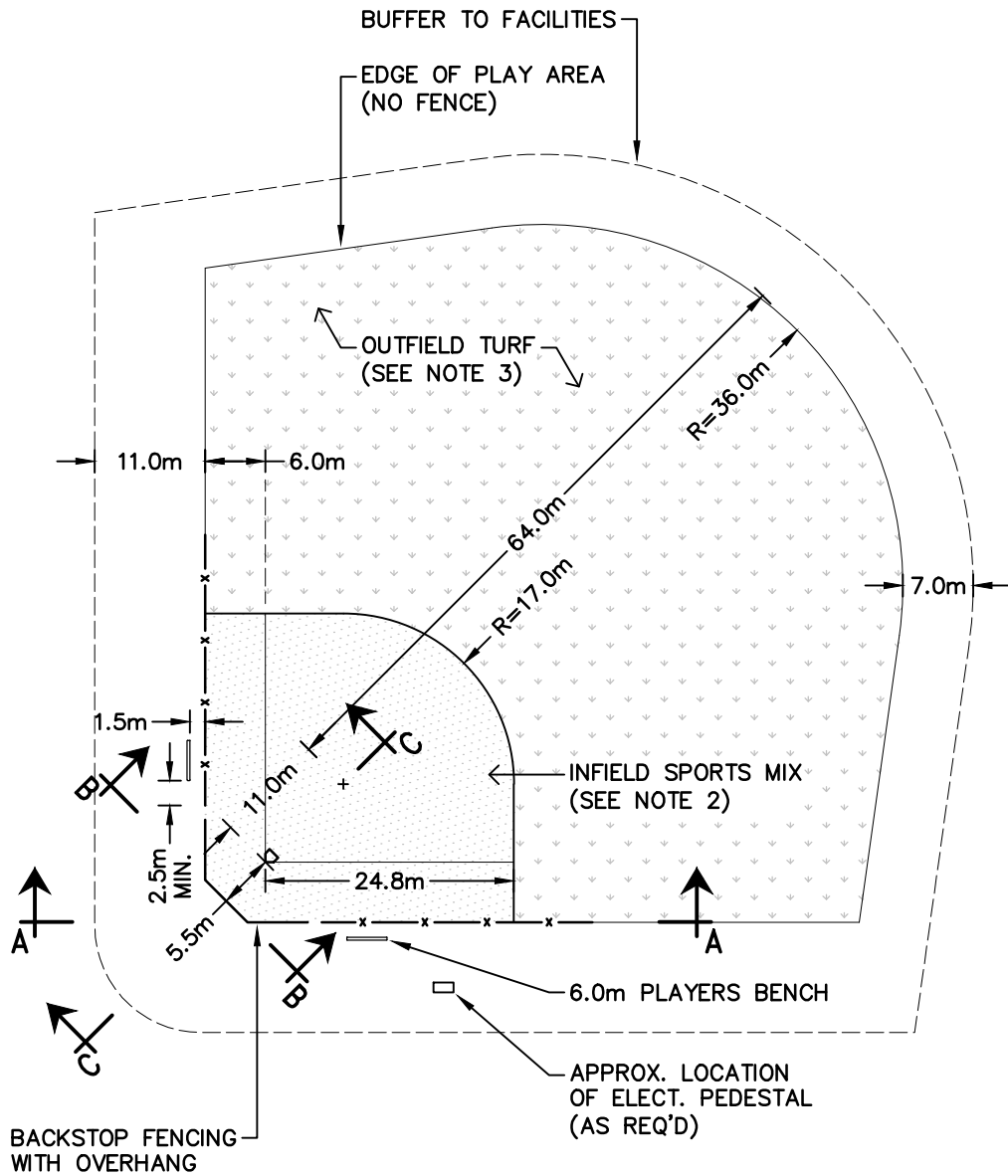
Rev. Date

2024/SEP

Standard No.

16-11.02





NOTES:

1. FOR FENCING DETAILS REFER TO STANDARD DRAWING 17-03.01.
2. LAYOUT OF INFIELD/OUTFIELD TO BE IN ACCORDANCE WITH APPROVED CONSTRUCTION DRAWINGS.
3. BUFFER DISTANCES AROUND FIELD OF PLAY MAY BE ALTERED TO ACCOMMODATE SITE CONDITIONS, AT THE DISCRETION OF THE TOWN OF MILTON.
4. DUGOUT FENCING (IF ANY) TO BE AS PER THE APPROVED CONSTRUCTION DRAWINGS.
5. INFIELD MIX: 'STANDARD BALL MIX' AS SUPPLIED BY CBM AGGREGATES (HILLSBURGH) 1-800-693-6164.
6. OUTFIELD SEED MIX: SPORTS TURF MIX (REFER TO SECTION 1.2.22)
7. PLAYERS BENCHES: PLAYER'S BENCHES (ALUMINUM SLATS C/W CONCRETE FOOTINGS) SUGGESTED SUPPLIER: HENDERSON RECREATION EQUIPMENT LTD. 1-800-265-5462
8. BLEACHERS (IF REQ'D) SUGGESTED SUPPLIER: W.H.RENOLDS (CAMBRIDGE) LTD. 1-888-653-9721 (OR APPROVED EQ.)

Title

**FIELD LAYOUT
MOSQUITO BALL**

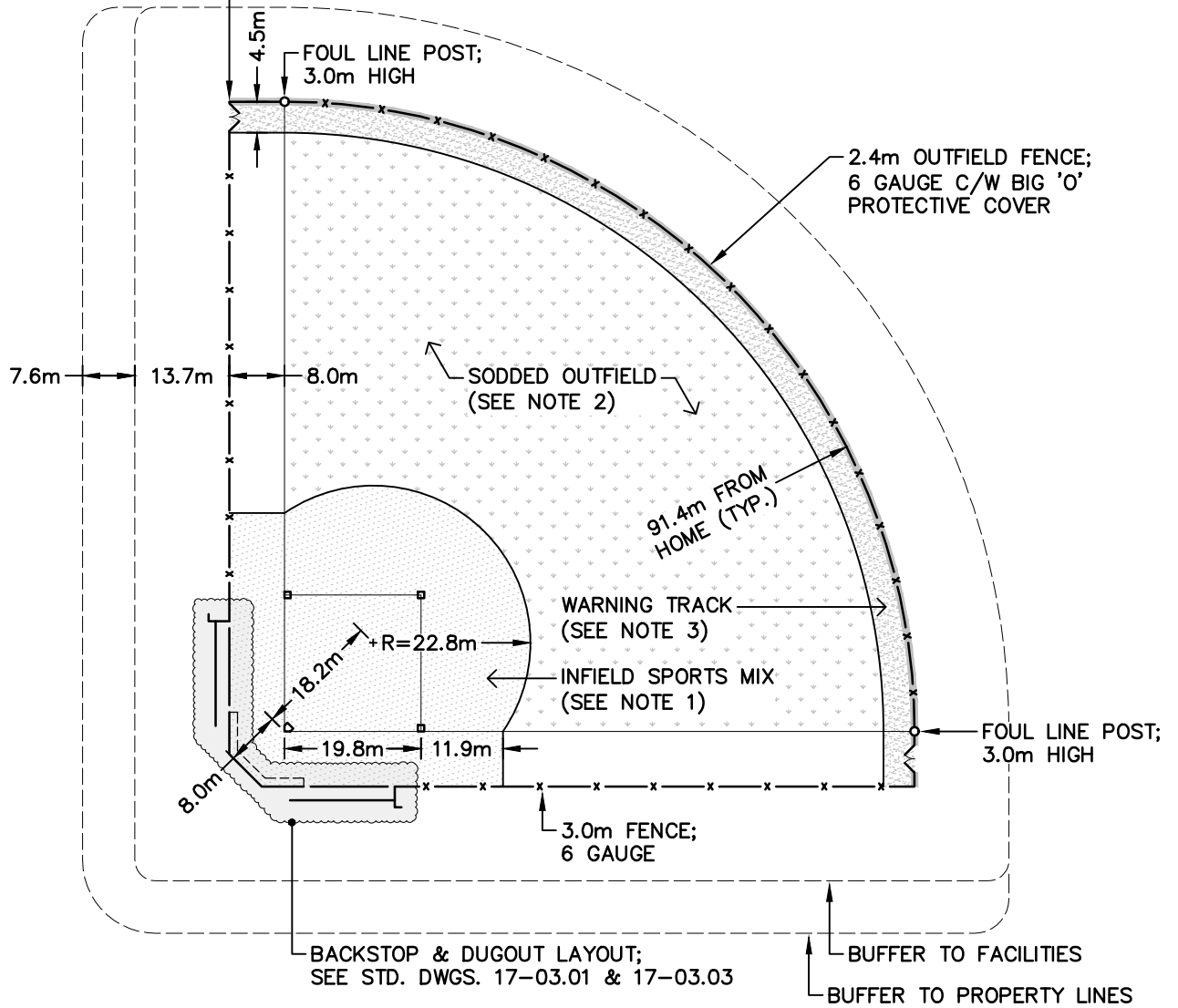
Scale **1:750**

Rev. Date **2024/SEP**

Standard No. **17-01.01**



SERVICE VEHICLE ACCESS;
2-2.0m GATES (TYP.)



NOTES:

1. MILTON INFIELD MIX: PER DESIGN DRAWINGS & SPECIFICATIONS
2. OUTFIELD SOD: COMPLETE WITH TOPSOIL (100mm DEPTH MIN.) (REFER TO SECTION 1.2.22)
3. WARNING TRACK: LIMESTONE SCREENINGS (150mm DEPTH)
4. LIMESTONE SCREENINGS TO EXTEND 300mm BEYOND WARNING TRACK FENCE.

Title

FIELD LAYOUT SLOW-PITCH/SOFTBALL

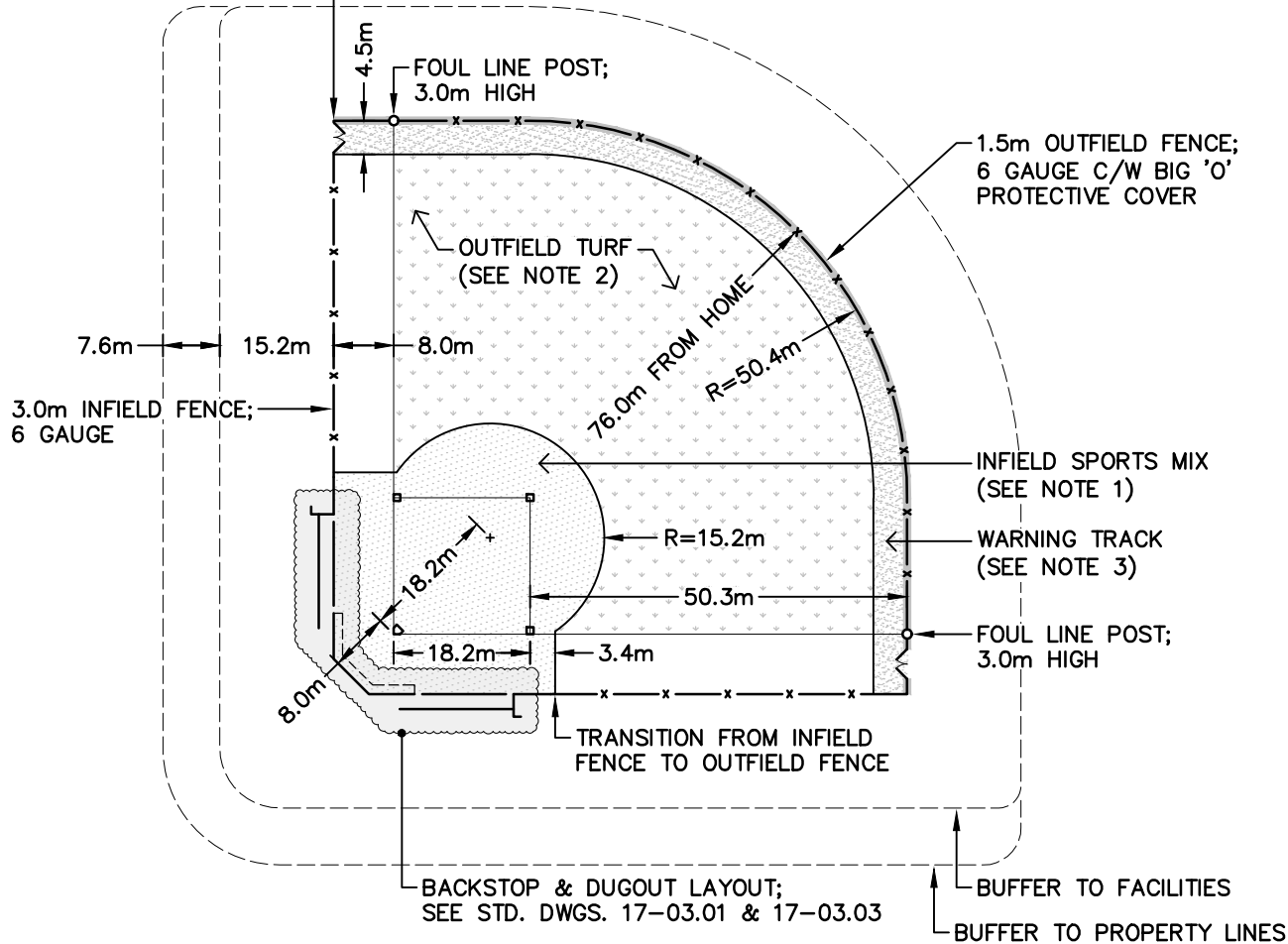
Scale **1:1000**

Rev. Date **2024/SEP**

Standard No.
17-01.02



SERVICE VEHICLE ACCESS;
2-2.0m GATES (TYP.)



NOTES:

- MILTON INFIELD MIX: 'MARCO' CLAY (150mm DEPTH)
- OUTFIELD SEED MIX: SPORTS TURF MIX (REFER TO SECTION 1.2.22)
- WARNING TRACK: LIMESTONE SCREENINGS (150mm DEPTH)
- LIMESTONE SCREENINGS TO EXTEND 300mm BEYOND WARNING TRACK FENCE.

Title

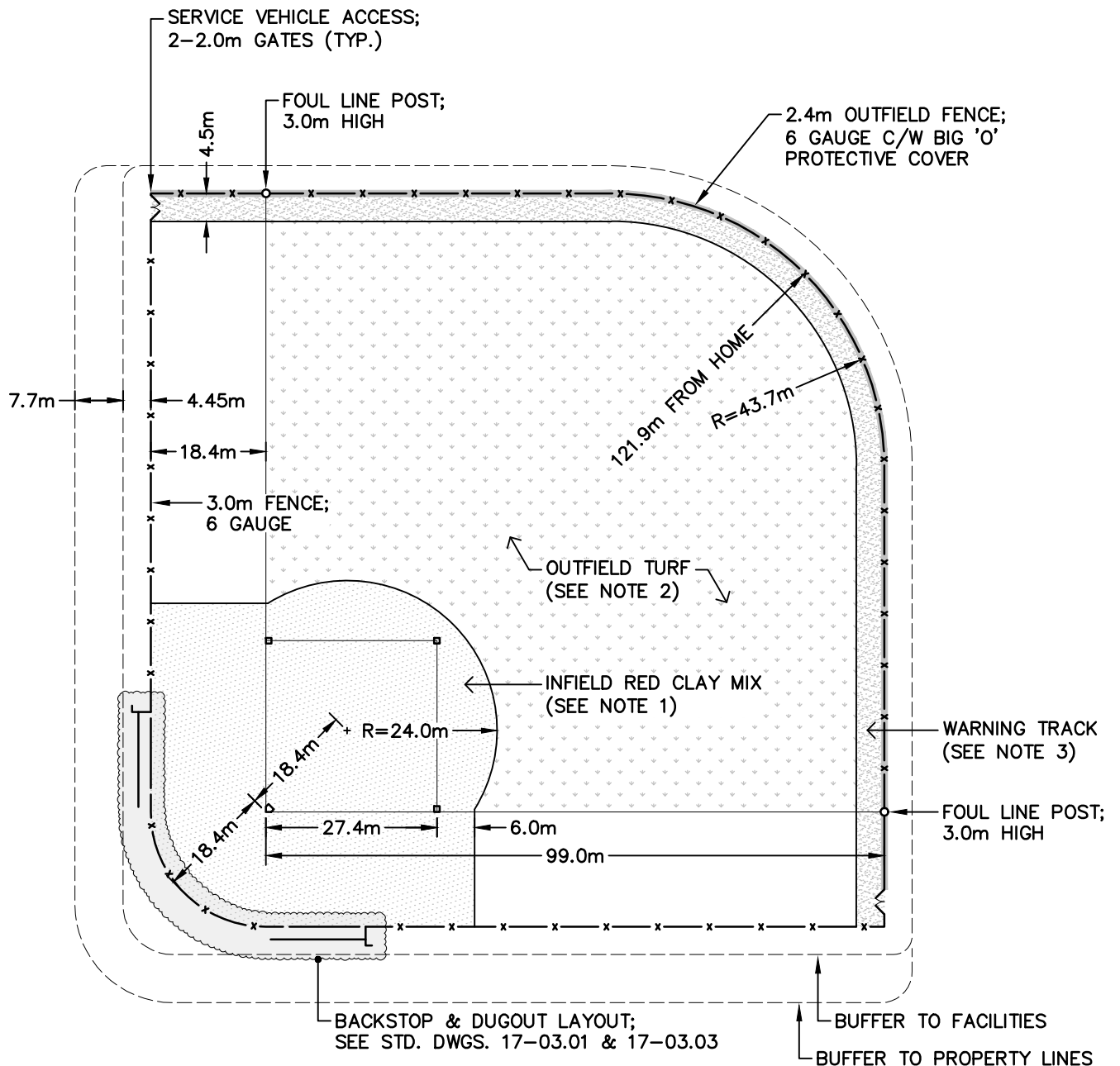
FIELD LAYOUT MINOR BASEBALL/SOFTBALL

Scale 1:1000

Rev. Date 2024/SEP

Standard No. 17-01.03





NOTES:

1. MILTON INFIELD MIX: 'MARCO' CLAY (150mm DEPTH)
2. OUTFIELD SEED MIX: SPORTS TURF MIX (REFER TO SECTION 1.2.22)
3. WARNING TRACK: LIMESTONE SCREENINGS (150mm DEPTH)
4. LIMESTONE SCREENINGS TO EXTEND 300mm BEYOND WARNING TRACK FENCE.

Title

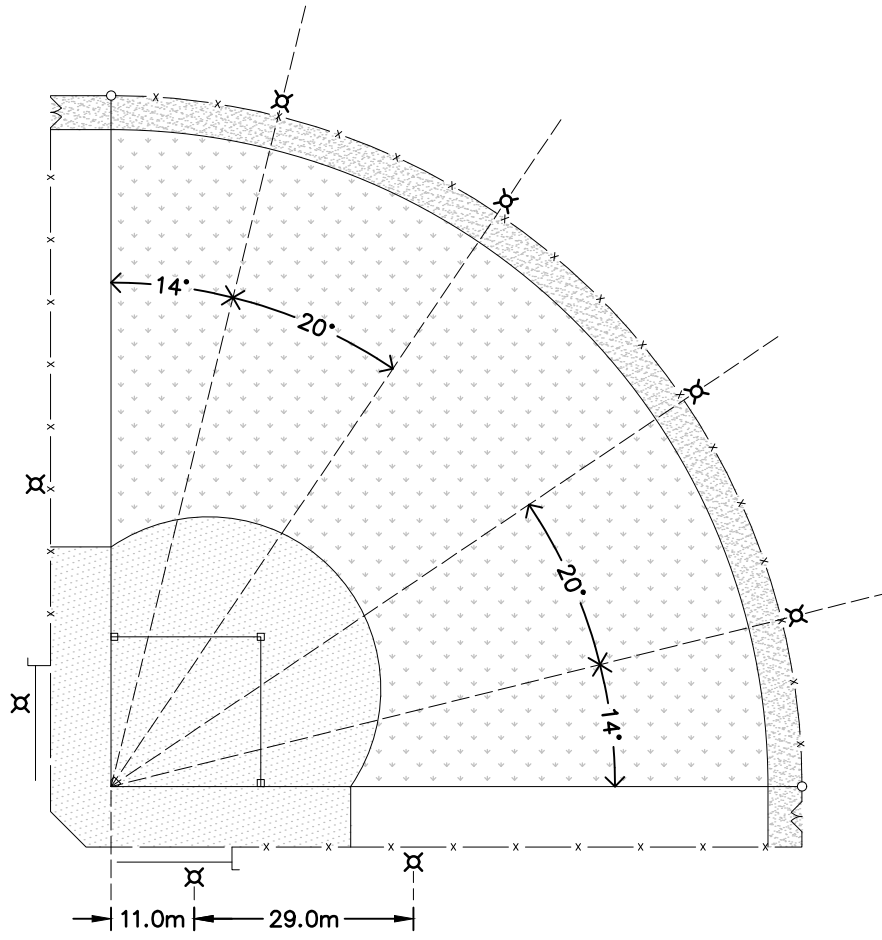
FIELD LAYOUT MAJOR BASEBALL

Scale **1:1000**

Rev. Date **2024/SEP**

Standard No. **17-01.04**





NOTES:

1. LIGHTING POLE LOCATIONS ARE DENOTED THUSLY: ⌘
2. TOTAL NUMBER OF POLES = 8
3. ALL POLES ARE TO BE LOCATED 1.0m OUTSIDE FENCES.

Title

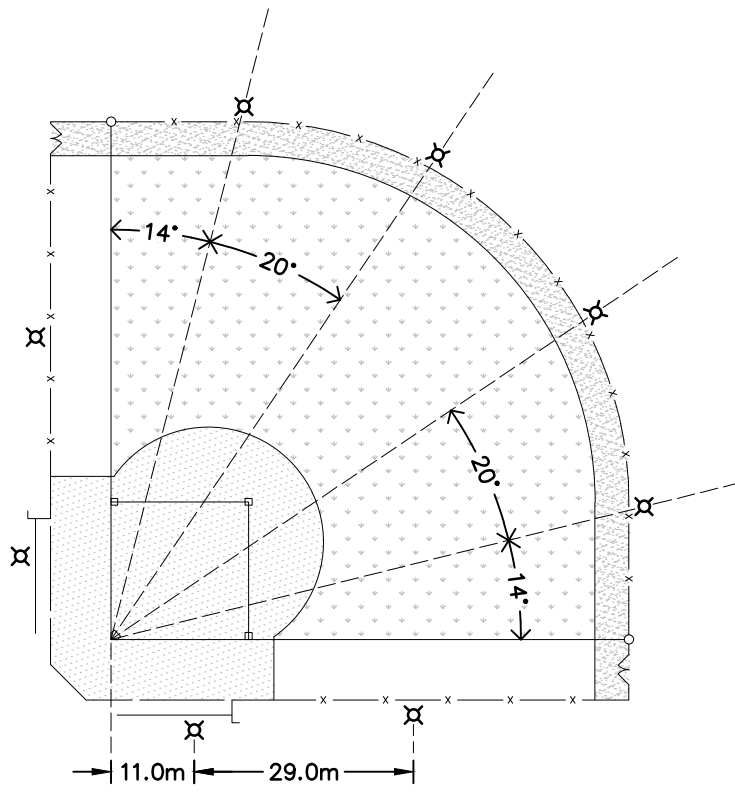
LIGHTING LAYOUT SLOW-PITCH/SOFTBALL

Scale 1:1000

Rev. Date 2024/SEP

Standard No. 17-02.01





NOTES:

1. LIGHTING POLE LOCATIONS ARE DENOTED THUSLY: X
2. TOTAL NUMBER OF POLES = 8
3. ALL POLES ARE TO BE LOCATED 1.0m OUTSIDE FENCES.

Title

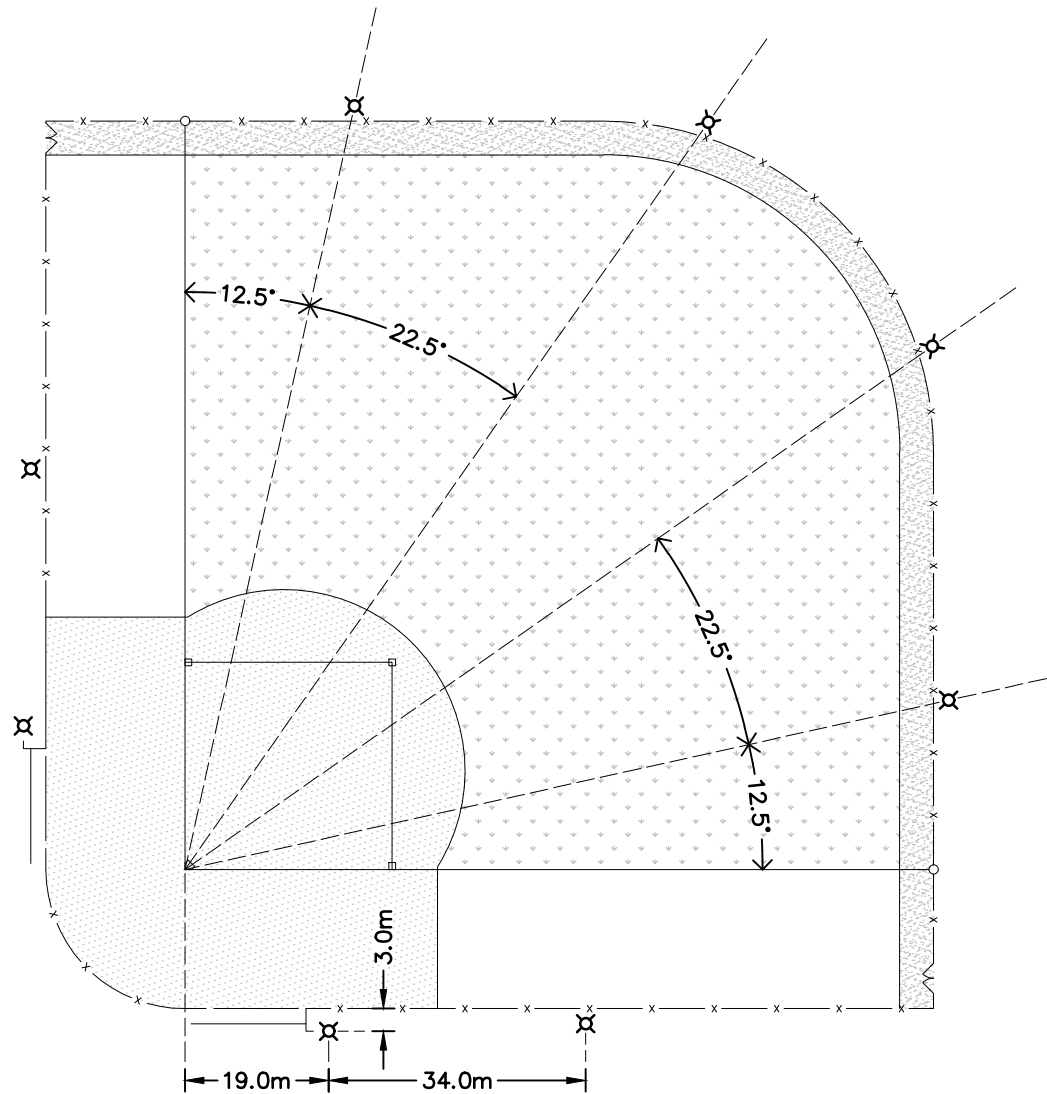
LIGHTING LAYOUT MINOR BASEBALL/SOFTBALL

Scale 1:1000

Rev. Date 2024/SEP

Standard No. 17-02.02





NOTES:

1. LIGHTING POLE LOCATIONS ARE DENOTED THUSLY: ⚡
2. TOTAL NUMBER OF POLES = 8
3. ALL POLES ARE TO BE LOCATED 1.0m OUTSIDE FENCES, UNLESS NOTED OTHERWISE.

Title

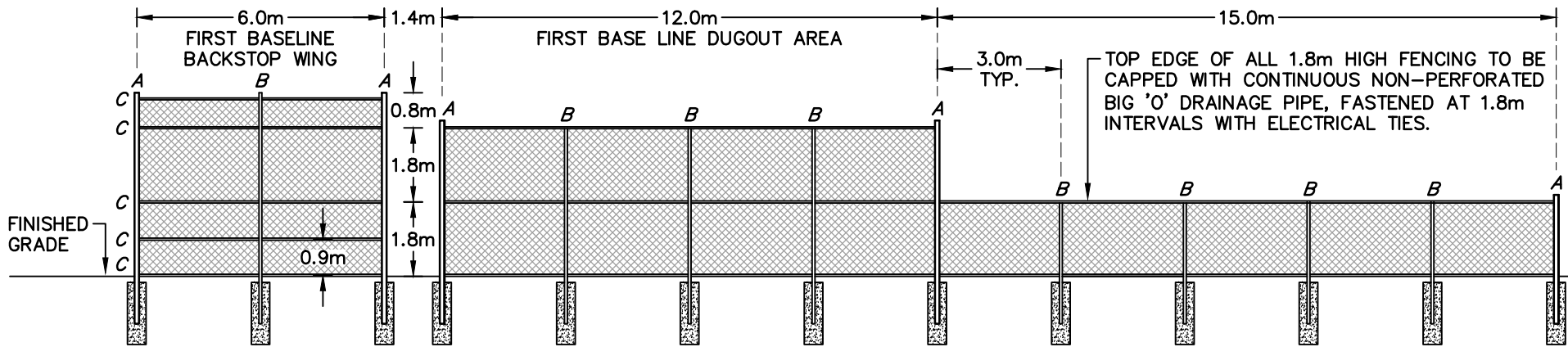
LIGHTING LAYOUT MAJOR BASEBALL

Scale 1:1000

Rev. Date 2024/SEP

Standard No. 17-02.03



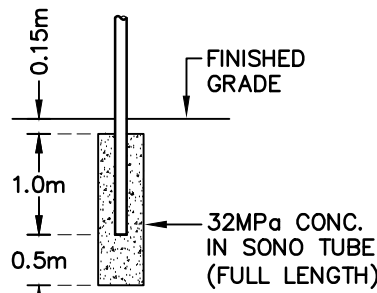


SECTION 'A'

SCALE: 1:150

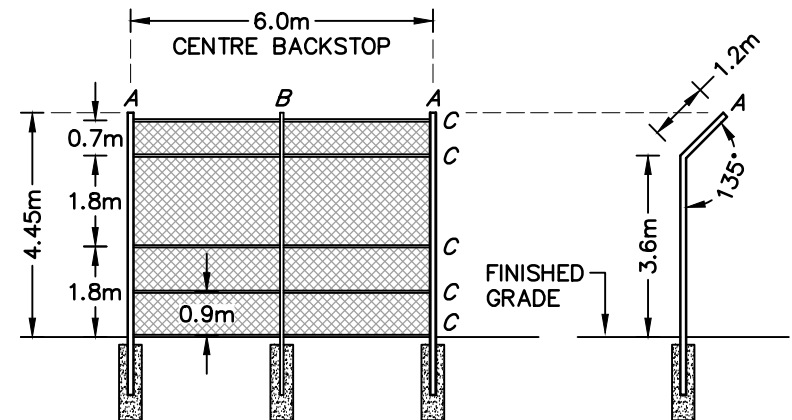
LEGEND

- A 114mm ϕ (OD) STEEL PIPE
- B 90mm ϕ (OD) STEEL PIPE
- C 48mm ϕ (OD) STEEL PIPE



FOOTING DETAIL

SCALE: 1:75



SECTION 'B'

SCALE: 1:150

SECTION 'C'

SCALE: 1:150

NOTES:

1. REFER TO STANDARD DRAWING 17-01.01 FOR FIELD LAYOUT.
2. BOTTOM RAIL TO BE NO MORE THAN 50mm ABOVE FINISHED GRADE.
3. ALL RAILS ARE TO BE 'FISH-MOUTH' CUT. (CRIMPING WILL NOT BE ACCEPTED.)
4. BACKSTOP AND BASELINE WINGS ARE TO BE ALL WELDED CONSTRUCTION. (ALL POSTS, RAILS, CAPS, & OTHER JOINTS MUST BE WELDED.)
5. CHAIN-LINK MESH TO BE 6-GUAGE, 50mm x 50mm GALVANIZED STEEL.
6. CHAIN-LINK MESH ON BACKSTOP OVERHANG AND VERTICALS TO BE ONE PIECE, SECURED WITH STRETCHER BARS AND BAR BANDS @ 250mm O/C.
7. CHAIN-LINK MESH ON INFIELD PLAY SIDE OF BACKSTOP AND ON TOP SIDE OF OVERHANG, WITH EDGES KNUCKLED UNDER.
8. SECURE CHAIN-LINK MESH TO BACKSTOP AND WING EXTENSION TERMINAL POSTS WITH TENSION BARS AND BAR BANDS @ 250mm O/C.
9. SECURE CHAIN-LINK MESH TO INTERMEDIATE POSTS AND ALL RAILS WITH 3.5mm GALVANIZED KNUCKLED TIES @ 250mm O/C.

Title

MOSQUITO BASEBALL FIELD FENCING DETAILS

Scale
AS NOTED

Rev. Date
2024/SEP

Standard No.
17-03.01



INFIELD FENCE
HEIGHT VARIES;
SEE FIELD LAYOUTS

PLAYERS BENCHES;
SEE NOTE 1

1.8m FENCE
HEIGHT

BACKSTOP HEIGHT;
SLOW-PITCH = 8.4m
MINOR = 8.4m
MAJOR = 9.7m

1.2m

6.6m

1.0m

11.2m

1.0m

2.0m

1.0m

2.0m

13.2m

1.0m

6.1m

NOTES:

1. PLAYER'S BENCHES; ALUMINUM SLATS C/W CONCRETE FOOTINGS.

Title

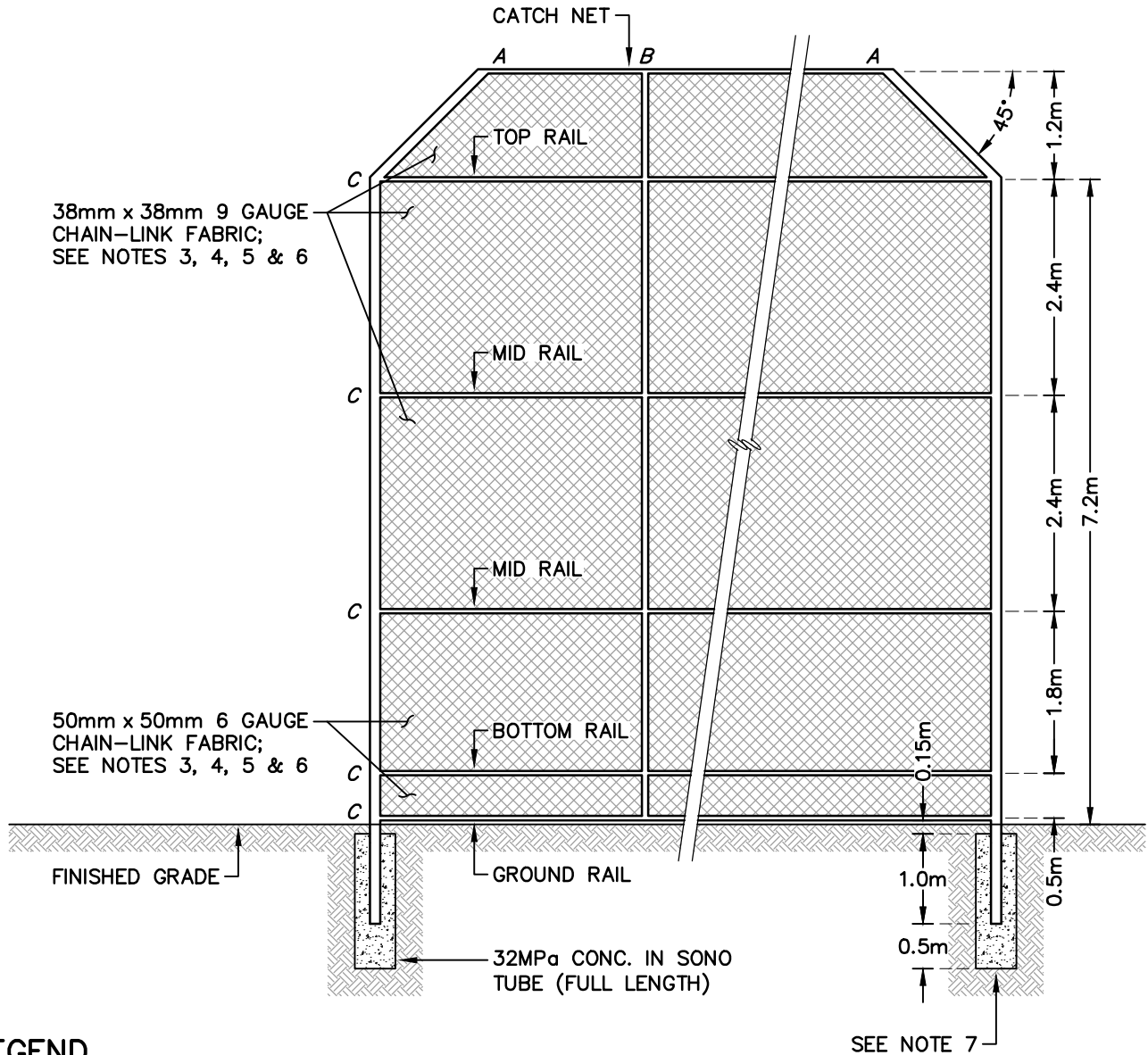
**BACKSTOP FENCING
& DUGOUT LAYOUT**

Scale **1:250**

Rev. Date **2024/SEP**

Standard No. **17-03.02**





LEGEND

- A 114mm ϕ (OD) STEEL PIPE
- B 70mm ϕ (OD) STEEL PIPE
- C 48mm ϕ (OD) STEEL PIPE

NOTES:

1. ALL RAILS ARE TO BE 'FISH-MOUTH' CUT. (CRIMPING WILL NOT BE ACCEPTED.)
2. BACKSTOP AND FIRST WING EXTENSION TO BE ALL WELDED CONSTRUCTION. (ALL POSTS, RAILS, CAPS, & OTHER JOINTS MUST BE WELDED.)
3. CHAIN-LINK MESH ON BACKSTOP OVERHANG AND VERTICALS TO BE ONE PIECE, SECURED WITH STRETCHER BARS AND BAR BANDS @ 250mm O/C.
4. CHAIN-LINK MESH ON INFIELD PLAY SIDE OF BACKSTOP AND ON TOP SIDE OF OVERHANG, WITH EDGES KNUCKLED UNDER.
5. SECURE CHAIN-LINK MESH TO BACKSTOP AND WING EXTENSION TERMINAL POSTS WITH TENSION BARS AND BAR BANDS @ 250mm O/C.
6. SECURE CHAIN-LINK MESH TO INTERMEDIATE POSTS AND ALL RAILS WITH 3.5mm GALVANIZED KNUCKLED TIES @ 250mm O/C.
7. FOOTING DEPTH MAY VARY. SEE DETAILED DESIGN DRAWINGS & SPECIFICATIONS.

Title

BASEBALL BACKSTOP

Scale

1:75

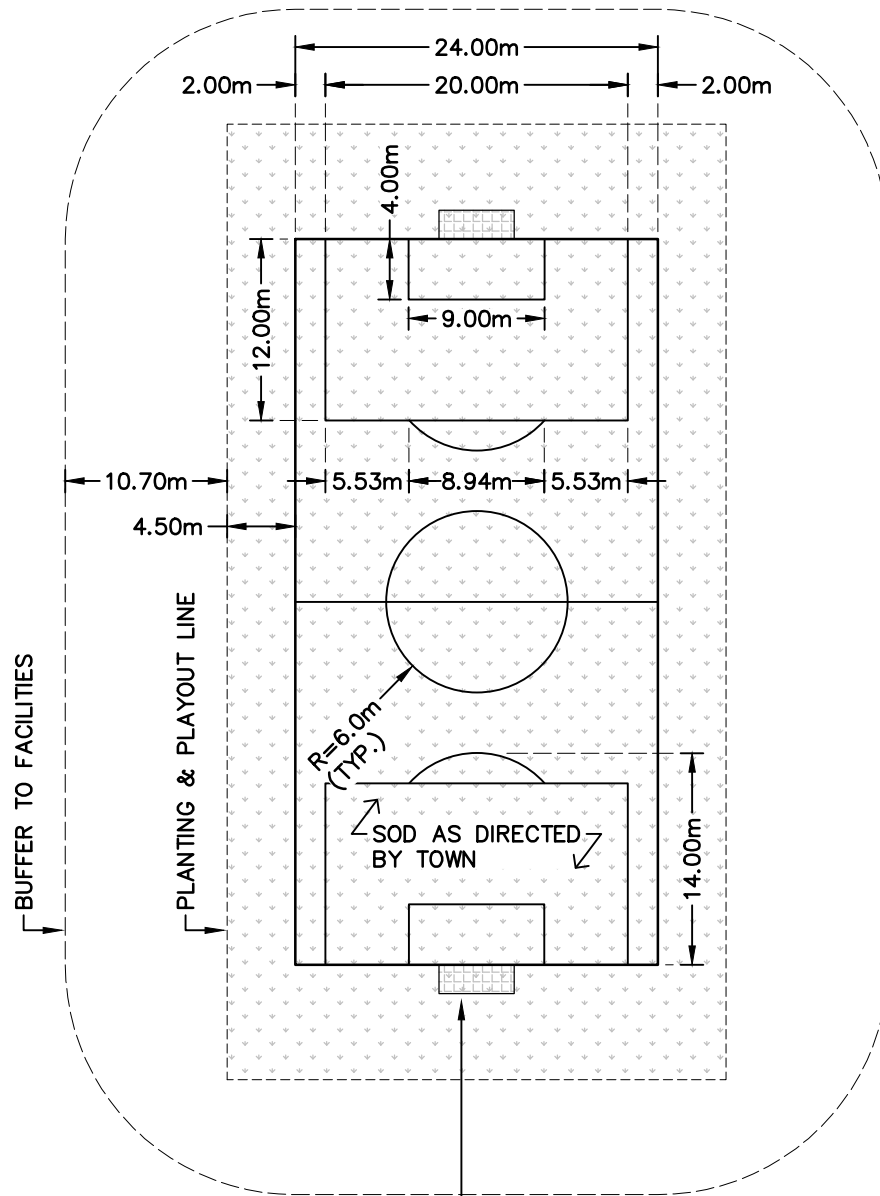
Rev. Date

2024/SEP

Standard No.

17-03.03





MOVABLE GOAL POST C/W ANCHOR
BRACKETS & PINS (4 PER GOAL);
SEE NOTES 1 & 2

NOTES:

1. MOVABLE GOAL POSTS SUGGESTED SUPPLIER: SPECK WELDING (MILTON ON. 1-905-878-1663)
2. ANCHOR BRACKETS & PINS SUGGESTED SUPPLIER: SOLEX INDUSTRIAL HANDELING EQUIPMENT LTD. (MILTON, ON. 1-905-878-8686)
3. REFER TO CONTRACT DRAWINGS AND SPECIFICATIONS FOR DEVIATIONS FROM THIS STANDARD DRAWING.
4. ALL DIMENSIONS TO BE CONFIRMED WITH PARKS & FACILITIES PLANNING STAFF.

Title

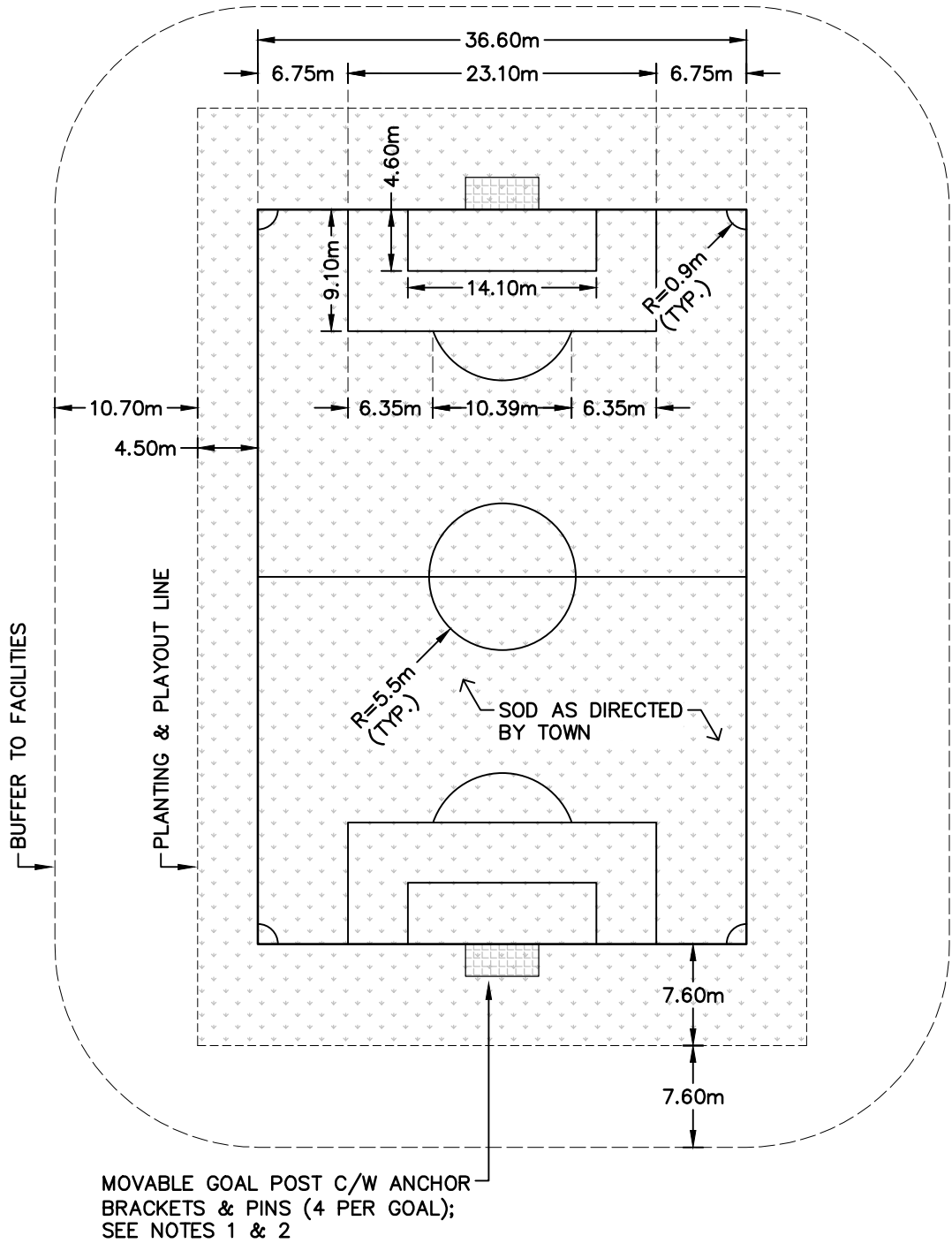
**FIELD LAYOUT
MINI SOCCER
(24.0m x 48.0m)**

Scale **1:500**

Rev. Date **2024/SEP**

Standard No. **17-04.01**





NOTES:

1. MOVABLE GOAL POSTS SUGGESTED SUPPLIER: LAURENTIAN GYMNASTICS INDUSTRIES LTD. (BRAMPTON ON. 1-800-534-0071) (PRODUCT CODE PR-01888 18'x8')
2. ANCHOR BRACKETS & PINS SUGGESTED SUPPLIER: SOLEX INDUSTRIAL HANDLING EQUIPMENT LTD. (MILTON, ON. 1-905-878-8686)
3. REFER TO CONTRACT DRAWINGS AND SPECIFICATIONS FOR DEVIATIONS FROM THIS STANDARD DRAWING.
4. ALL DIMENSIONS TO BE CONFIRMED WITH PARKS & FACILITIES PLANNING STAFF.

Title

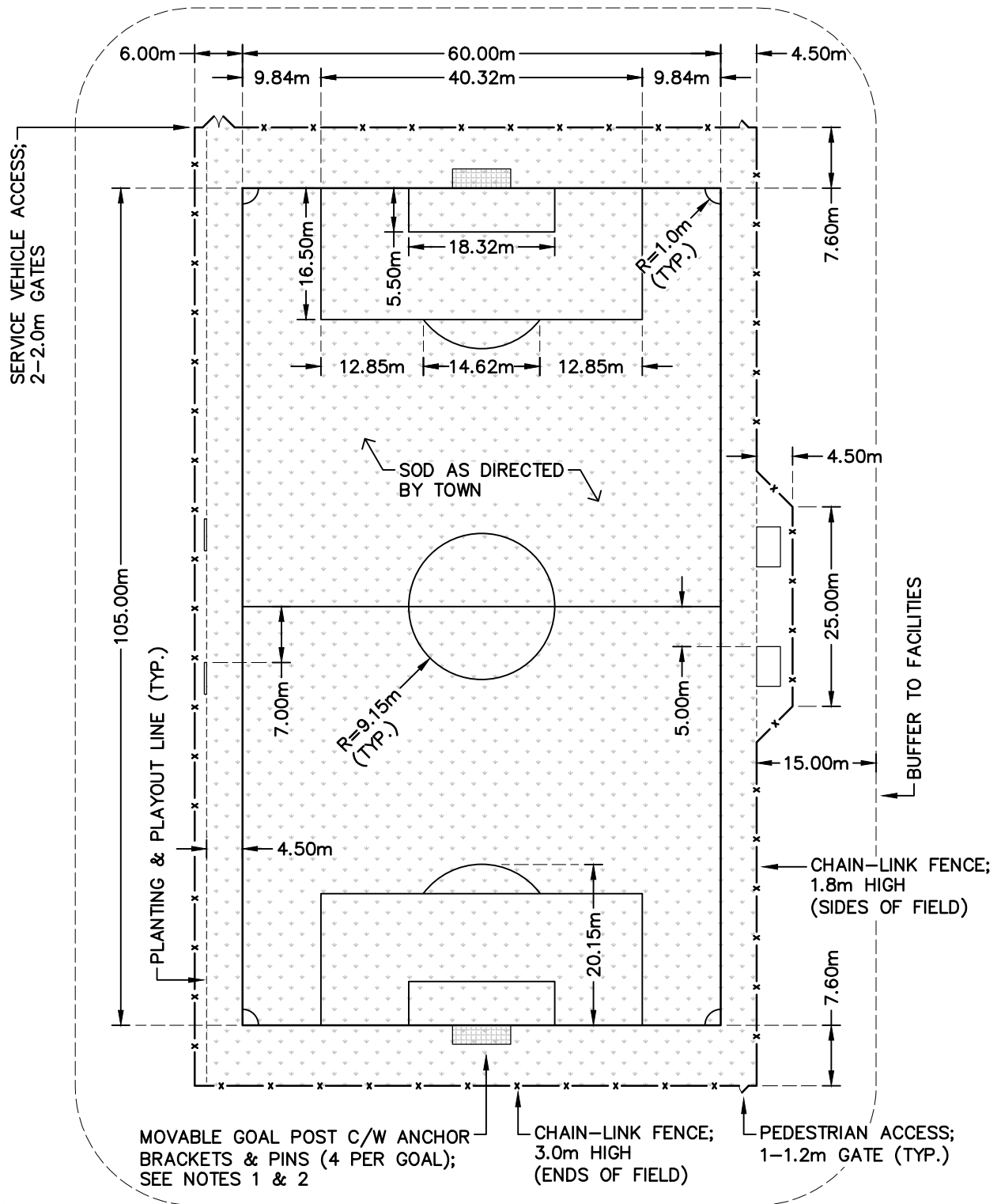
**FIELD LAYOUT
INTERMEDIATE/MINOR SOCCER
(36.6m x 55.0m)**

Scale **1:500**

Rev. Date **2024/SEP**

Standard No. **17-04.02**





NOTES:

1. MOVABLE GOAL POSTS SUGGESTED SUPPLIER: LAURENTIAN GYMNASTICS INDUSTRIES LTD. (BRAMPTON ON. 1-800-534-0071) (PRODUCT CODE PR-02488 24'x8')
2. ANCHOR BRACKETS & PINS SUGGESTED SUPPLIER: SOLEX INDUSTRIAL HANDELING EQUIPMENT LTD. (MILTON, ON. 1-905-878-8686)
3. REFER TO CONTRACT DRAWINGS AND SPECIFICATIONS FOR DEVIATIONS FROM THIS STANDARD DRAWING.
4. ALL DIMENSIONS TO BE CONFIRMED WITH PARKS & FACILITIES PLANNING STAFF.

Title

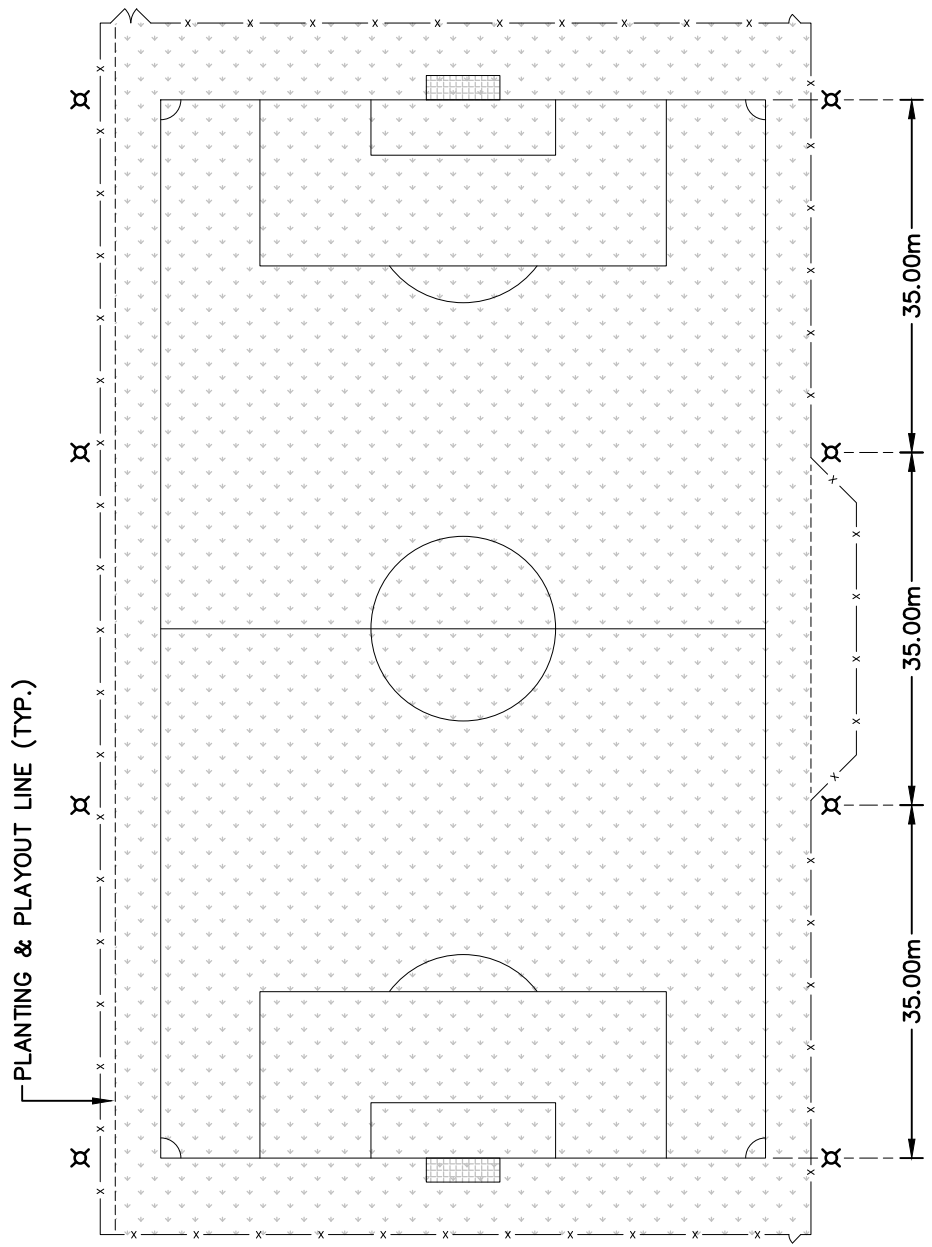
**FIELD LAYOUT
SENIOR/MAJOR SOCCER
(60.0m x 105.0m)**

Scale **1:750**

Rev. Date **2024/SEP**

Standard No. **17-04.03**





NOTES:

1. LIGHTING POLE LOCATIONS ARE DENOTED THUSLY: ⌘
2. TOTAL NUMBER OF POLES = 8
3. ALL POLES ARE TO BE LOCATED 1.0m OUTSIDE FENCES.

Title

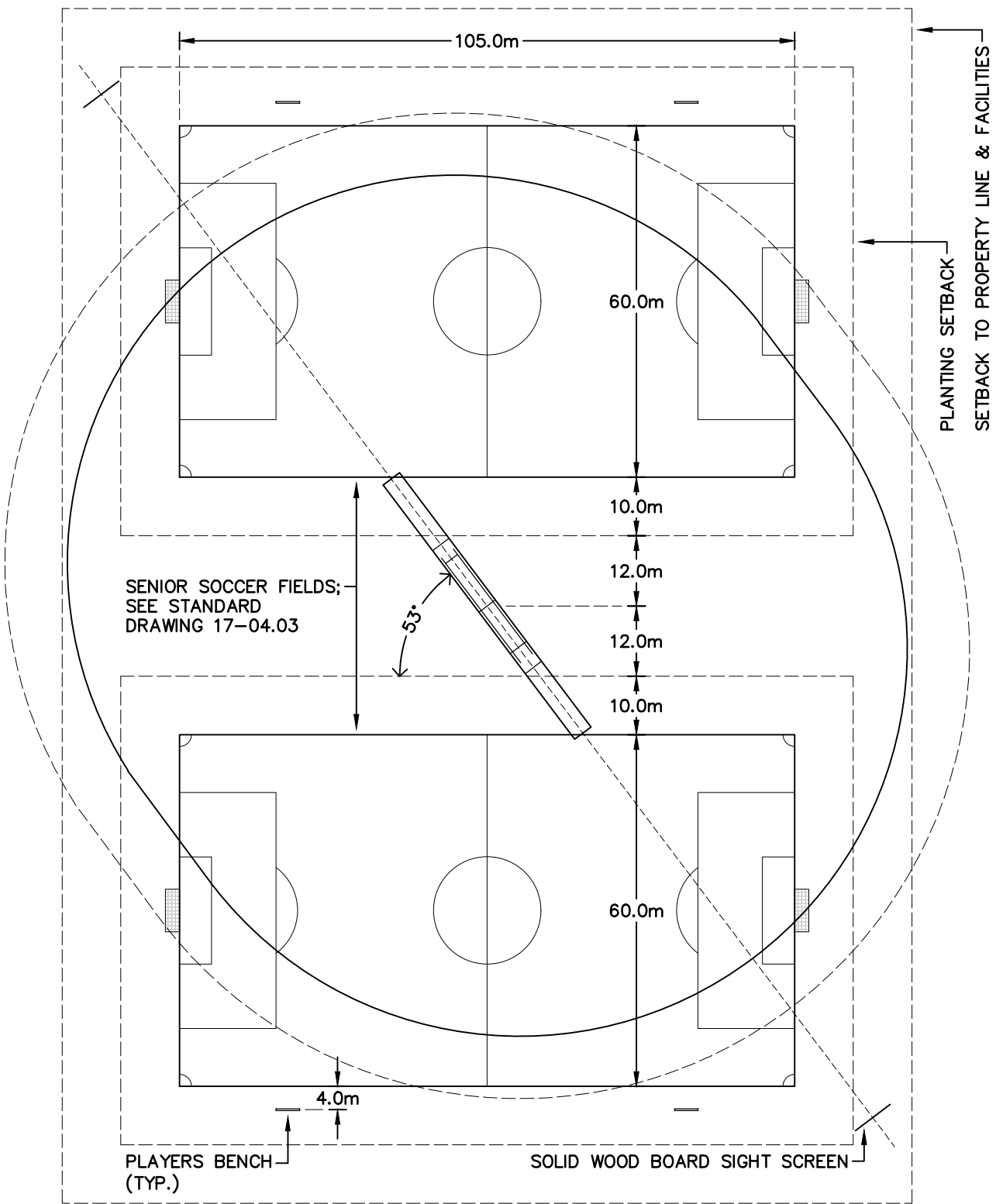
**LIGHTING LAYOUT
SENIOR/MAJOR SOCCER
(60.0m x 105.0m)**

Scale **1: 750**

Rev. Date **2024/SEP**

Standard No. **17-05.01**



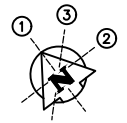


NOTES:

1. 10.0m PLANTING SETBACK AND PLYOUT LINES FROM FIELD.
2. 20.0m BUFFER FROM PROPERTY LINES AND FACILITIES.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH STANDARD DRAWING 17-04.03.

WICKET ORIENTATIONS:

- 1 = BEST ORIENTATION
- 2 = PREFERRED ALTERNATIVE
- 3 = LEAST DESIRABLE



Title

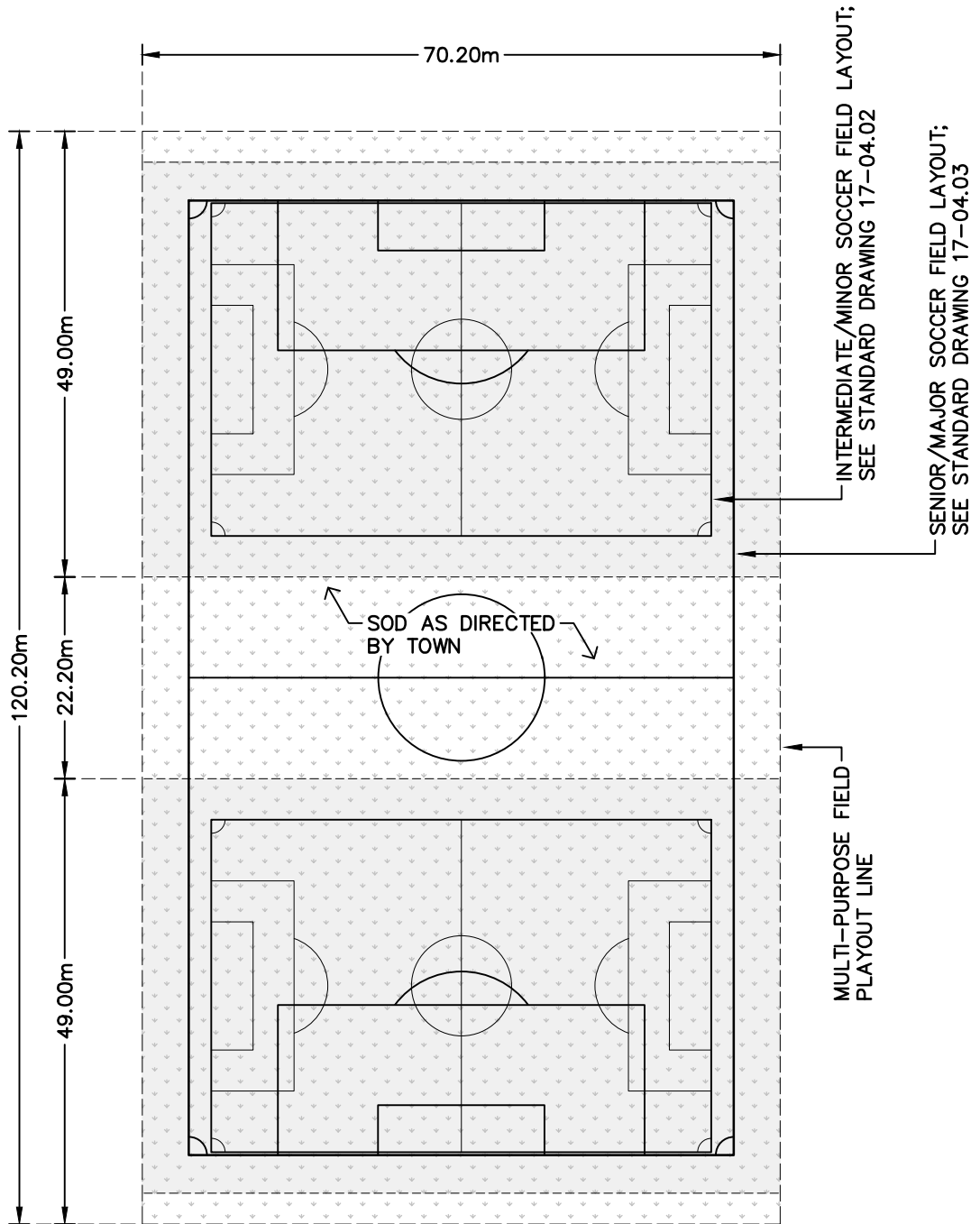
**FIELD LAYOUT
DOUBLE SENIOR SOCCER
WITH CRICKET PITCH**

Scale **1:1000**

Rev. Date **2024/SEP**

Standard No. **17-06.01**





NOTES:

1. MOVEABLE GOAL POSTS SUGGESTED SUPPLIER: LAURENTIAN GYMNASTICS INDUSTRIES LTD. (BRAMPTON ON. 1-800-534-0071)
2. ANCHOR BRACKETS & PINS SUGGESTED SUPPLIER: SOLEX INDUSTRIAL HANDELING EQUIPMENT LTD. (MILTON, ON. 1-905-878-8686)
3. REFER TO CONTRACT DRAWINGS AND SPECIFICATIONS FOR CHANGES TO STANDARD DRAWING. (ie. FENCING, GATES, LIGHTING LOCATIONS, ETC.)
4. FIELD LAYOUTS AND PLAYOUT LINES ARE SHOWN FOR ILLUSTRATION PURPOSES.
5. ALL DIMENSIONS ARE TO BE CONFIRMED WITH PARKS & FACILITIES PLANNING STAFF.

Title

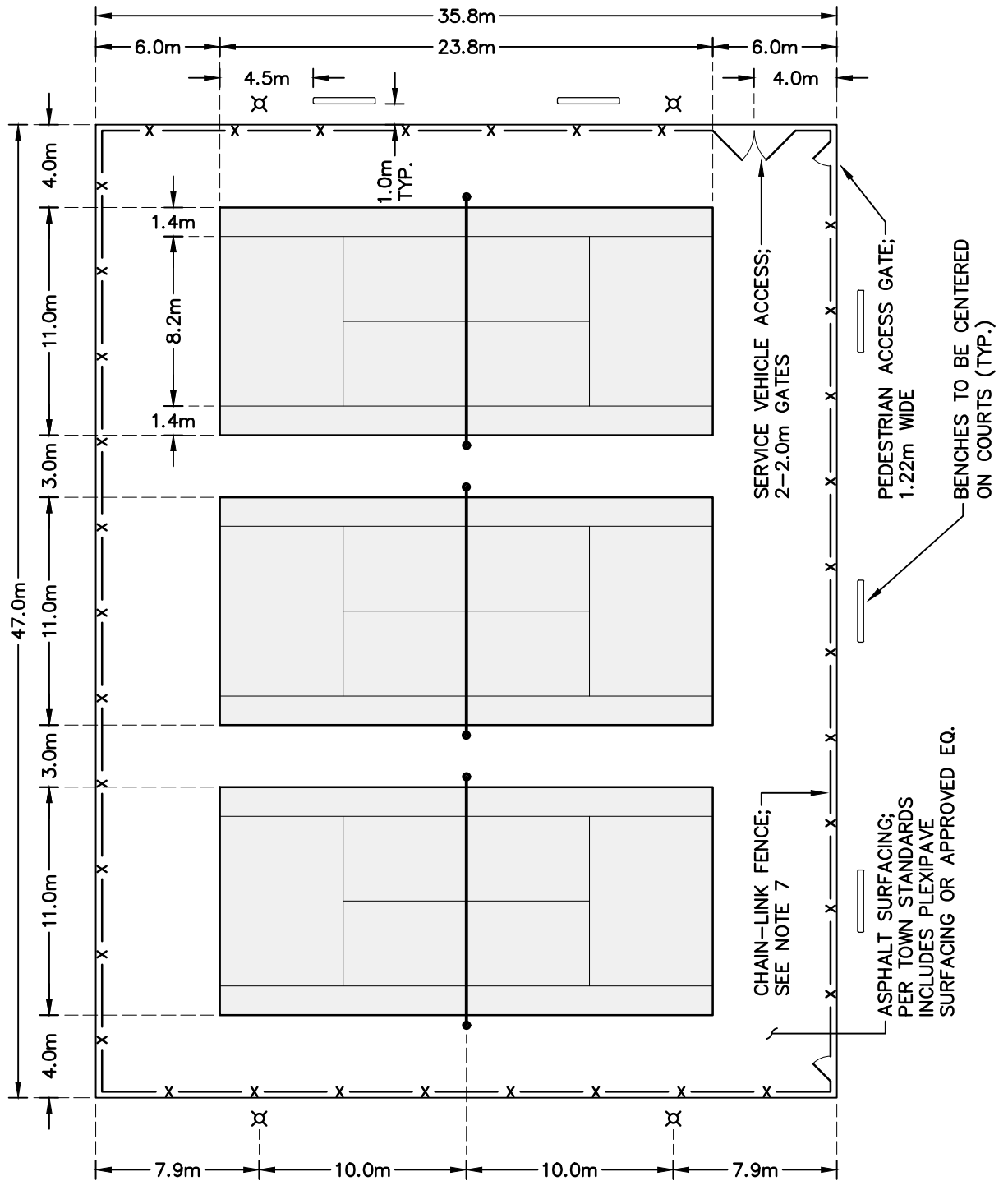
**FIELD LAYOUT
MULTI PURPOSE SPORTS**

Scale **1: 750**

Rev. Date **2024/SEP**

Standard No. **17-06.02**





NOTES:

1. LIGHTING POLE LOCATIONS ARE DENOTED THUSLY: X
2. TOTAL NUMBER OF LIGHTING POLES = 4
3. ALL LIGHTING POLES ARE TO BE LOCATED 1.0m OUTSIDE FENCES, UNLESS NOTED OTHERWISE.
4. PICKLEBALL LINES TO BE INCLUDED AT THE DISCRETION OF THE TOWN. COLOUR COATING PER DESIGN DRAWINGS & SPECIFICATIONS.
5. FOR A TWO COURT LAYOUT, OVERALL DIMENSIONS ARE TO BE REDUCED TO 35.8m x 32.9m
6. SEE TMSD 17-07.02 FOR NET POSTS & PLAY SURFACE.
7. CONFIRM REQUIREMENT FOR PERIMETER CHAIN-LINK FENCE WITH PARKS & FACILITIES PLANNING STAFF. CHAIN-LINK FENCING TO BE PER TMSD 09-02.01 WITH GATES PER TMSD 09-02.02.

Title

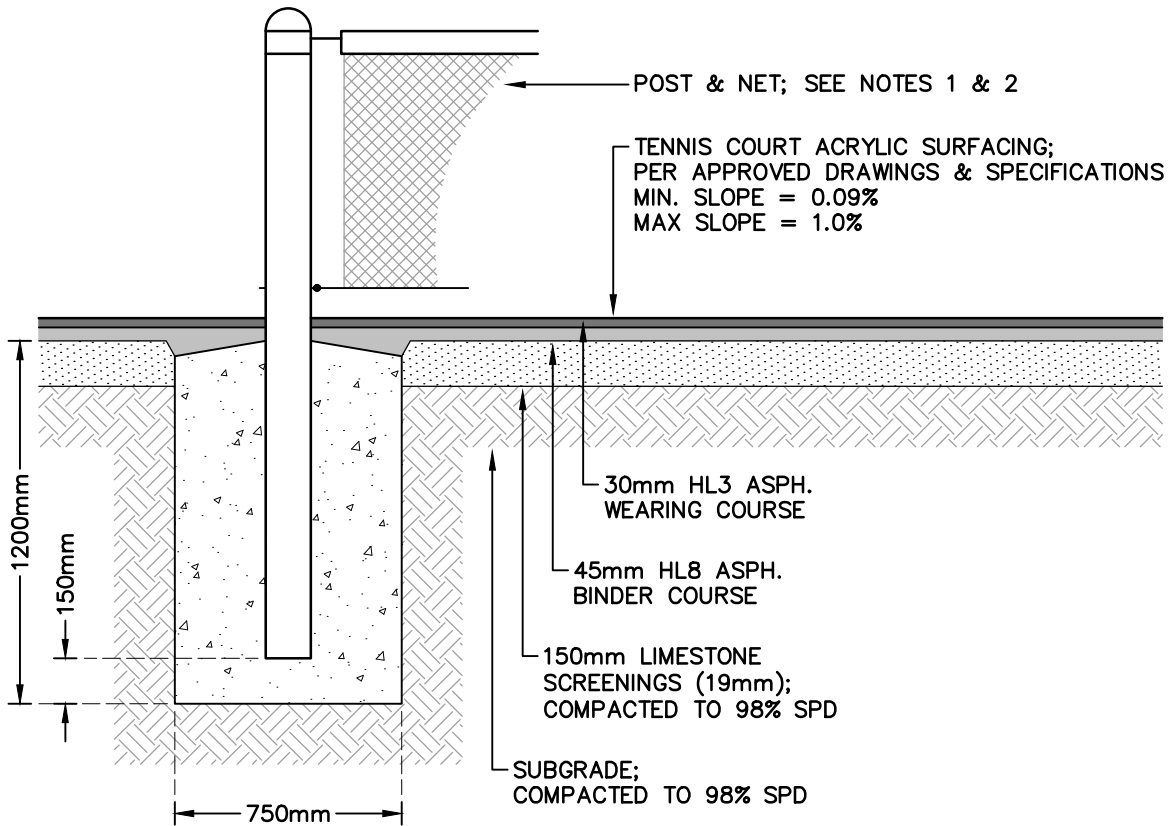
TENNIS COURT LAYOUT (3 COURTS)

Scale
1:300

Rev. Date
2024/SEP

Standard No.
17-07.01





Title

TENNIS COURT NET POST & SURFACE DETAIL

Scale

1:25

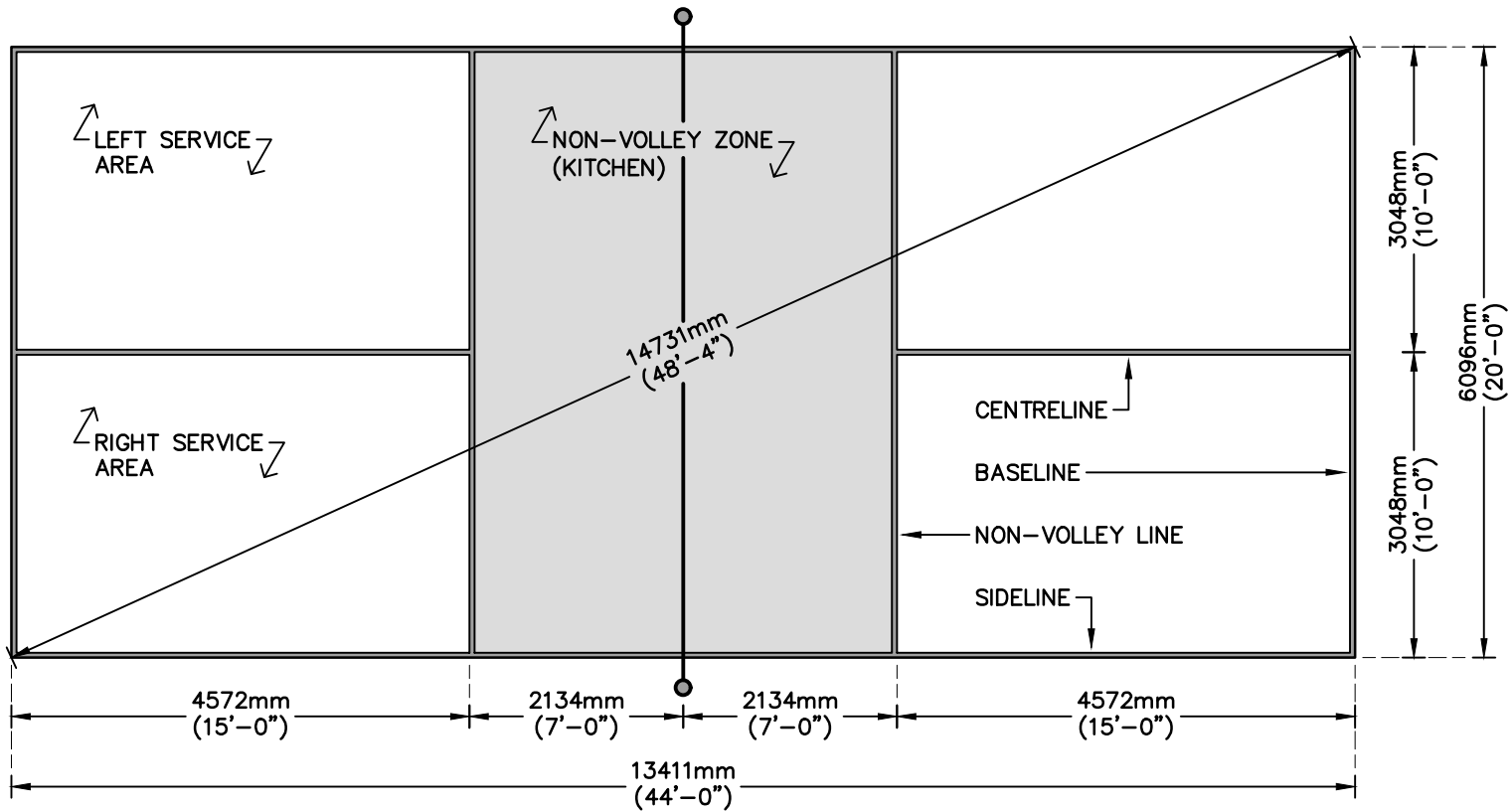
Rev. Date

2024/SEP

Standard No.

17-07.02





LINE TOLERANCES:

1. NET TO OUTSIDE OF NON-VOLLEY ZONE LINE = 2 134mm (±3mm)
2. NET TO OUTSIDE OF BASELINE = 6 706mm (±6mm)
3. OUTSIDE OF SIDELINE TO OUTSIDE OF SIDELINE = 6 096mm (±6mm)
4. OUTSIDE OF SIDELINE TO CENTRELINE = 3 048mm (±3mm)
5. DIAGONAL LINE TO OUTSIDE OF LINES = 14 732mm (±19mm)

NOTES:

1. RECOMMENDED NET POST LOCATION:
300mm OUTSIDE OF SIDELINE
2. NET HEIGHT AT SIDELINE = 914mm
3. NET HEIGHT AT CENTRE = 864mm
4. RECOMMENDED LINE WIDTHS = 51mm

Title

PICKLEBALL COURT LAYOUT

Scale

1:75

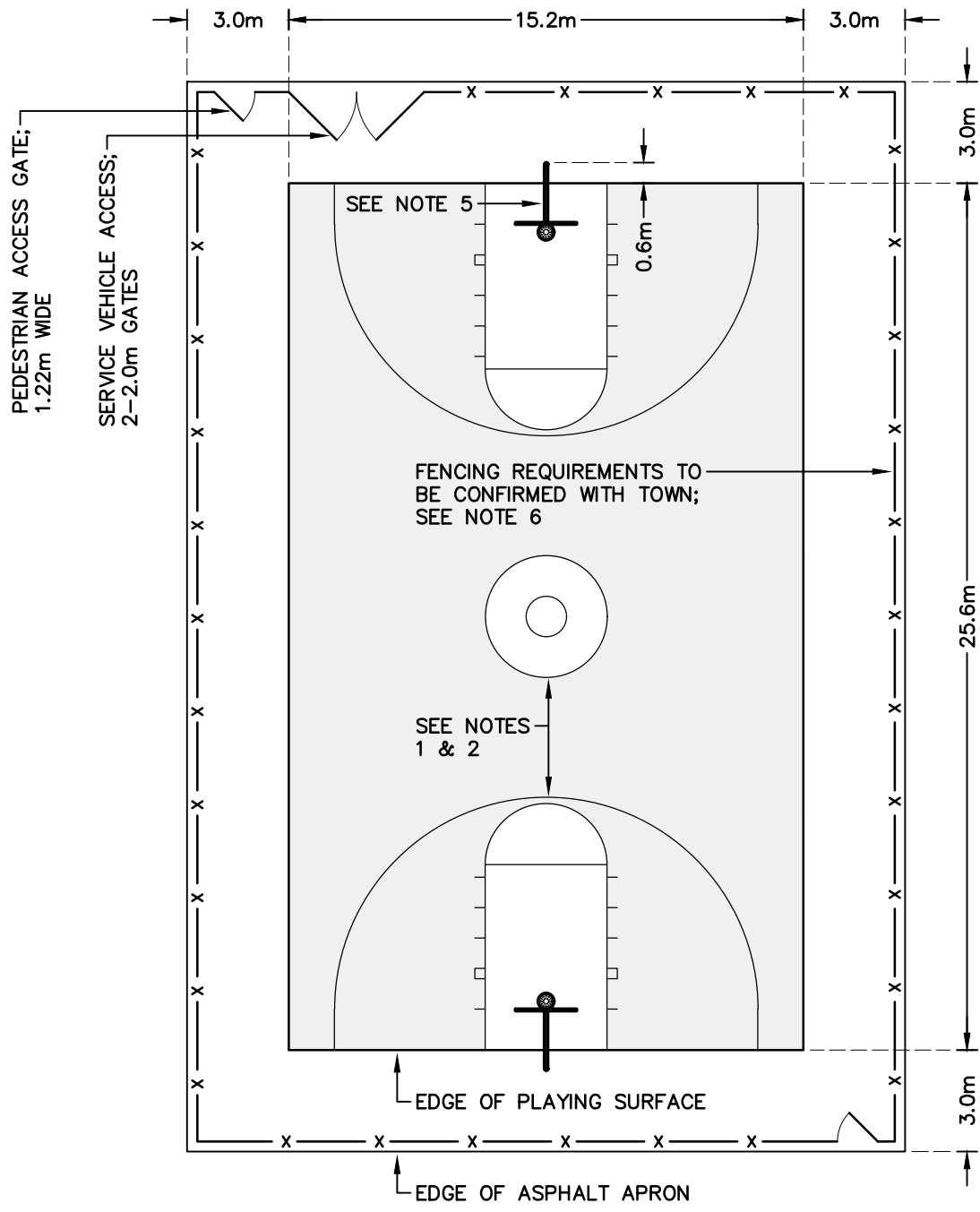
Rev. Date

2024/SEP

Standard No.

17-08.01





NOTES:

1. FOR LINE PAINTING DIMENSIONS/LAYOUT SEE TMSD 17-09.02.
2. ALL LINES TO BE WHITE WITH A WIDTH OF 51mm.
3. ASPHALT SURFACING MATERIAL AND COLOURING; AS PER DESIGN DRAWINGS & SPECIFICATIONS.
4. BACKBOARD, RIM, NET, ADAPTER FRAME, & POST SUGGESTED SUPPLIER:
GYMNASIUM & HEALTH EQUIPMENT (TEL. 905-471-1555)
BACKBOARD - GARED 1272B, RIM - GARED 5500, GOOSENECK POST - GARED GN60F
5. BLACK VINYL CHAIN-LINK FENCE TO BE PER SPECIFICATION AND LOCATED 300mm INSIDE EDGE OF ASPHALT.

Title

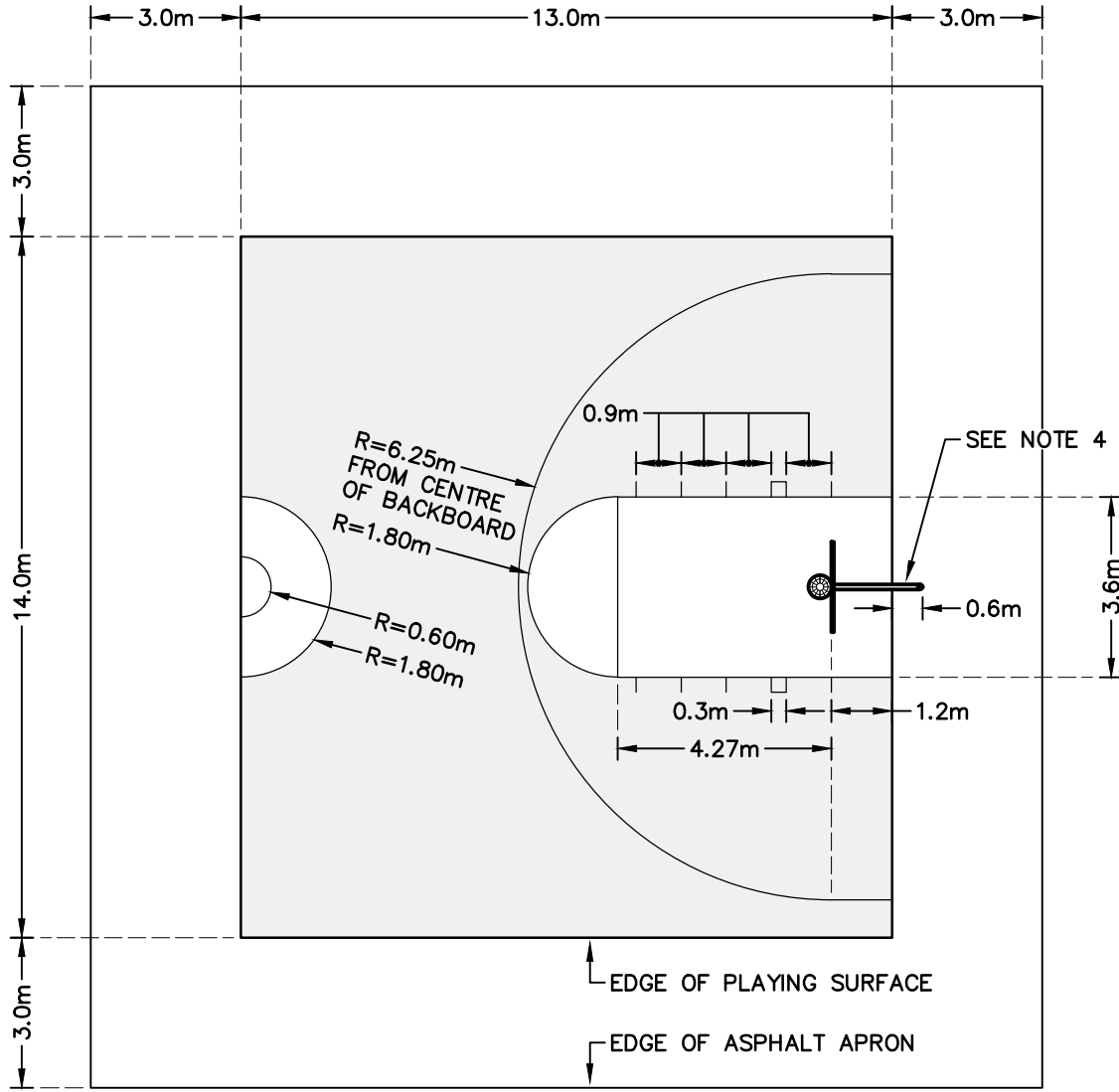
**BASKETBALL COURT
LAYOUT**

Scale **1:200**

Rev. Date **2024/SEP**

Standard No. **17-09.01**





NOTES:

1. ALL LINES TO BE WHITE WITH A WIDTH OF 51mm.
2. RADII DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE LINE.
3. ASPHALT SURFACING MATERIAL AND COLOURING; AS PER DESIGN DRAWINGS & SPECIFICATIONS.
4. KEY HALF-COURT CIRCLE TO BE 'U.S. OPEN BLUE.' PLAYING FIELD TO BE 'U.S. OPEN GREEN.'
5. BACKBOARD, RIM, NET, & POST SUGGESTED SUPPLIER:
 GYMNASIUM & HEALTH EQUIPMENT (TEL. 905-471-1555)
 BREAK AWAY GOAL - MODEL 726, GOOSE NECK POST - MODEL GN60

Title

BASKETBALL HALF-COURT LAYOUT

Scale

1:150

Rev. Date

2024/SEP

Standard No.

17-09.02

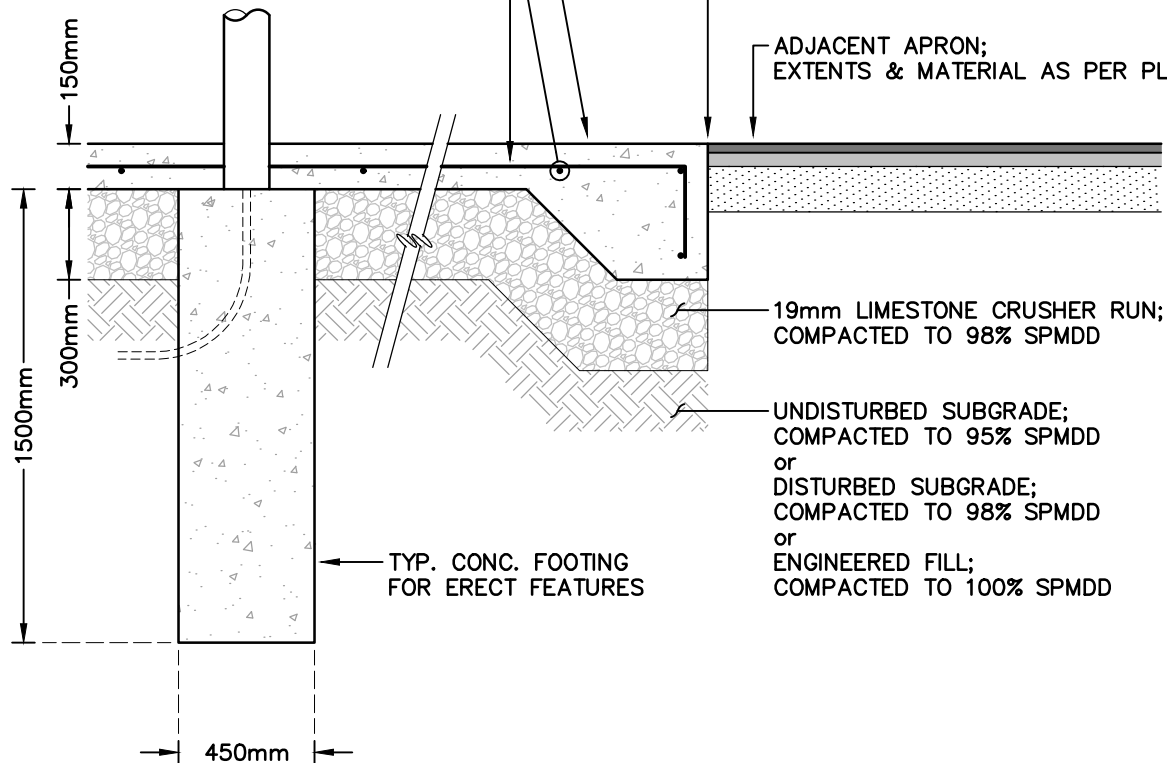


COLOURED/STANDARD CONCRETE PAVING;
28 DAY STRENGTH: 32MPa
AIR ENTRAINMENT: 5-7%

15M REBAR @ 400mm O/C (BOTH DIR.);
PROVIDE ONE BAR AT BASE OF
REINFORCED EDGE

ADJACENT SURFACE TO BE
CONSTRUCTED FLUSH WITH
CONC. SPLASH PAD

ADJACENT APRON;
EXTENTS & MATERIAL AS PER PLANS



NOTES:

1. AS REQUIRED, CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY UPON ENCOUNTERING ANY UNSUITABLE OR UNSTABLE SUBGRADE, SUCH AS EXCESSIVE TOPSOIL, SOFT SPOTS, AND/OR ORGANIC MATTER. METHODS AND MATERIALS MUST BE APPROVED BY THE OWNER PRIOR TO COMMENCING ANY WORK. SUBGRADE TO BE CONSOLIDATED AND TESTED TO A MIN. OF 98% SPMD. ENGINEERED FILL TO BE CONSOLIDATED AND TESTED TO A MIN. OF 100% SPMD.
2. CONCRETE TO BE CONTINUOUS LIGHT BROOM FINISH ACROSS PATH, OR AS OTHERWISE SPECIFIED ON PLANS. MOCKUP TO BE PROVIDED FOR APPROVAL.
3. REFER TO CONCRETE SCHEDULE FOR CONCRETE COLOUR, FINISH, & LOCATION.
4. CONCRETE EDGE TO BE FORMED UNIFORMLY AND SMOOTH WITH CLEAN EDGES AND WITHOUT LATERAL DEVIATIONS.
5. REFER TO CONCRETE SCHEDULE FOR CONCRETE COLOUR, FINISH, & LOCATION.
6. INTEGRAL PIGMENTS BY: L.M.SCOFIELD (OR APPROVED EQ.). REFER TO MANUFACTURER/SUPPLIER SPECIFICATIONS.
7. ALL COLOURED CONCRETE TO BE SEALED WITH POLYURETHANE CAULK TO MATCH CONCRETE COLOUR. IN LOCATIONS WHERE TWO COLOURS MEET, THE CONSULTANT IS TO HAVE FINAL SAY. SAMPLES TO BE PROVIDED FOR APPROVAL.
8. CONTRACTOR TO PROVIDE SAMPLES (TEST POURS) IN ACCORDANCE WITH SPECIFICATIONS.
9. REFER TO JOINTING DETAIL FOR CONTROL AND EXPANSION JOINTS.
10. GRANULAR EDGE TO EXTEND MIN. 150mm BEYOND CONCRETE.
11. REFER TO GRADING AND SURFACE MATERIALS PLANS.

Title

**SPRAY PAD
TYPICAL CONCRETE PAVING
(WITH TURNDOWN EDGE)**

Scale

1:25

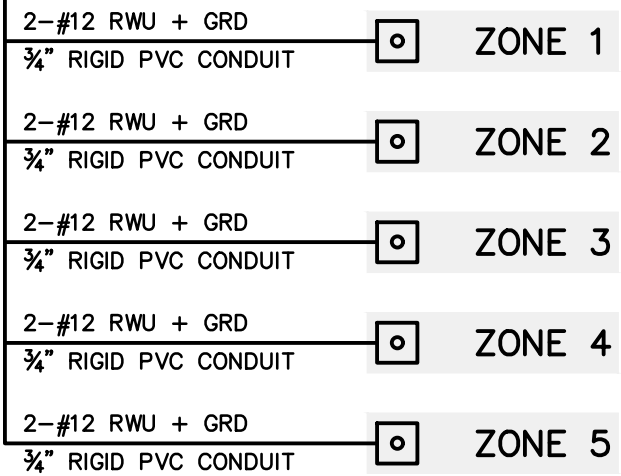
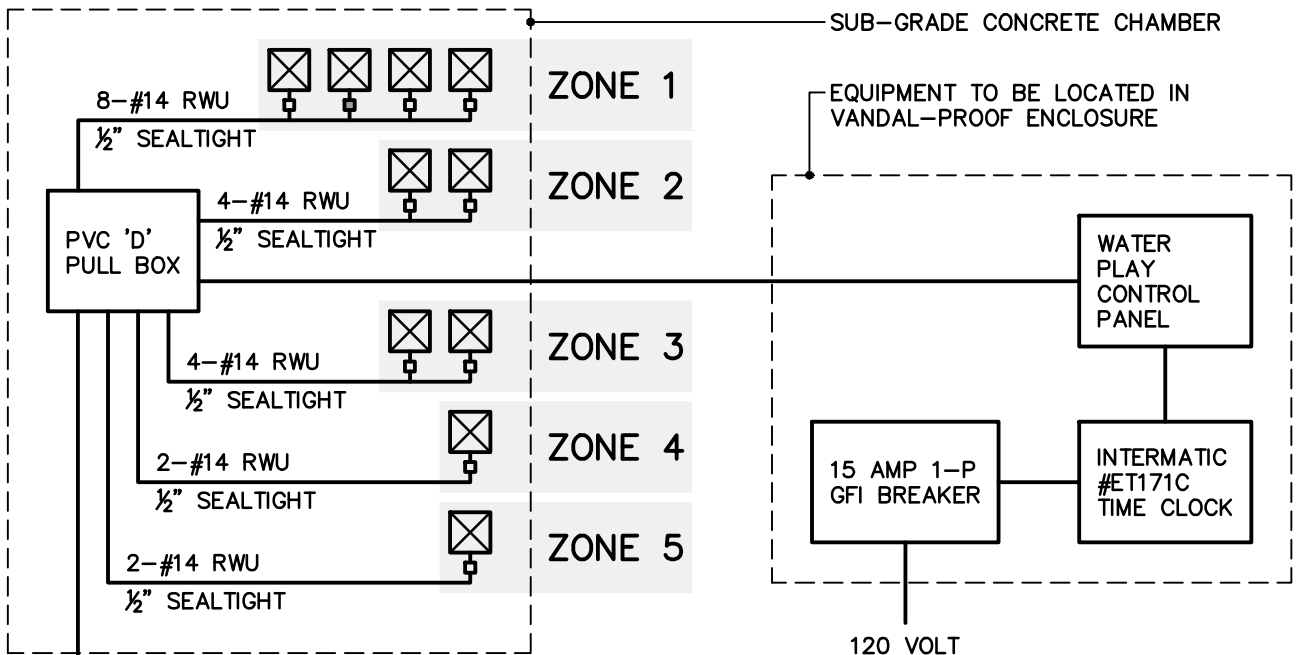
Rev. Date

2024/SEP



Standard No.

17-10.01





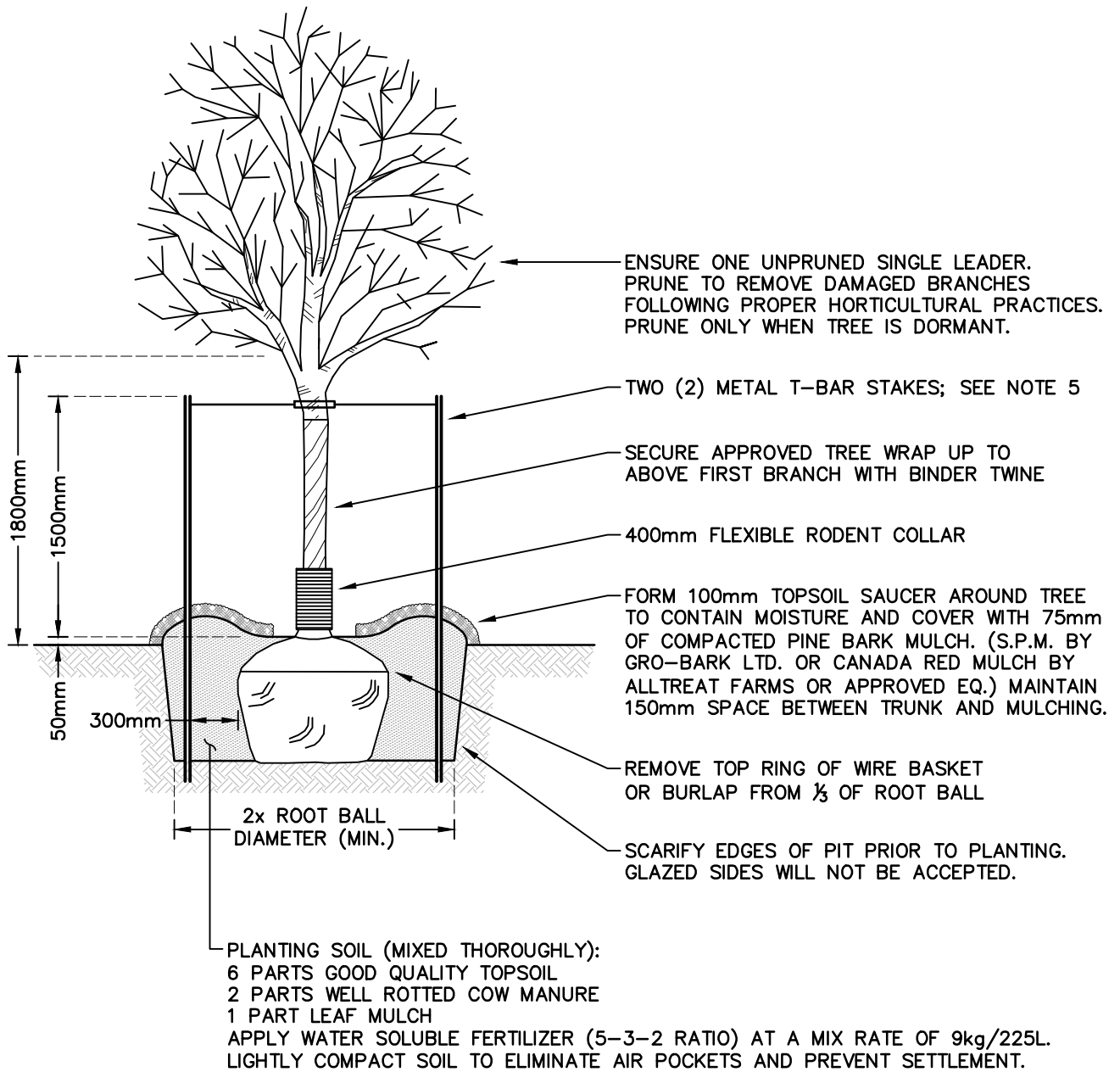
LEGEND

-  PUSH BUTTON (SEE NOTES 3 & 4)
-  SOLENOID VALVE

NOTES:

1. THE CONTROL PANEL AND THE TIME CLOCK ARE NOT TO BE LOCATED WITHIN THE CHAMBER.
2. TERMINATE SOLENOIDS WITH COMPRESSION BUTT SPLICES AND EPOXY FILLED HEAT SHRINK TUBING.
3. RUN TWO WIRES TO EACH PUSH BUTTON. DO NOT USE A COMMON FEED WIRE.
4. ALL MOMENTARY CONTACT BUTTONS WILL BE SUPPLIED AND MOUNTED ON WATER PLAY EQUIPMENT. ALL GROUNDING, WIRING, AND CONNECTIONS TO BE COMPLETED BY A LICENCE ELECTRICAL CONTRACTOR.
5. ALL WIRE TO BE RWU STRANDED IN RIGID PVC CONDUIT WITH SOLVENT WELD FITTINGS.
6. DO NOT SPLICE WIRES WITHIN CHAMBER PULL BOX.

<p>Title</p> <p>SPRAY PAD TYPICAL WATER PLAY CONTROL SCHEMATIC</p>	<p>Scale N.T.S.</p>	
	<p>Rev. Date 2024/SEP</p>	
	<p>Standard No. 17-10.02</p>	



NOTES:

1. TREES ARE TO BE PLANTED PLUMB AND MAINTAINED PLUMB THROUGHOUT THE WARRANTY AND MAINTENANCE PERIOD.
2. TREES ARE TO BE PLANTED AT 50mm ABOVE ORIGINAL NURSERY GRADE AND SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
3. TREES WITH TRUNK SCARS AND/OR WEAK GRAFT UNION WILL NOT BE ACCEPTED.
4. NO TREE PITS ARE TO BE LEFT OPEN OVERNIGHT.
5. METAL T-BARS ARE TO BE 38mm x 2400mm, DRILLED TO RECEIVE GALVANIZED 11 GAUGE GUY WIRES, THREADED THROUGH 10mm ϕ BLACK RUBBER HOSE WRAPPED AROUND TRUNK. ANCHOR T-BARS FIRMLY INTO UNDISTURBED SUBGRADE A MIN. OF 300mm AWAY FROM THE ROOT BALL. METAL T-BARS ARE TO BE REMOVED AT COMPLETION OF THE WARRANTY PERIOD.
6. STANDARD MINIMUM CALIPER SIZE IS 60mm. CALIPER SIZE IS TO BE MEASURED AT STANDARD D.B.H. 1.4m ABOVE GRADE.

Title

**DECIDUOUS
 TREE PLANTING**

Scale

1:40

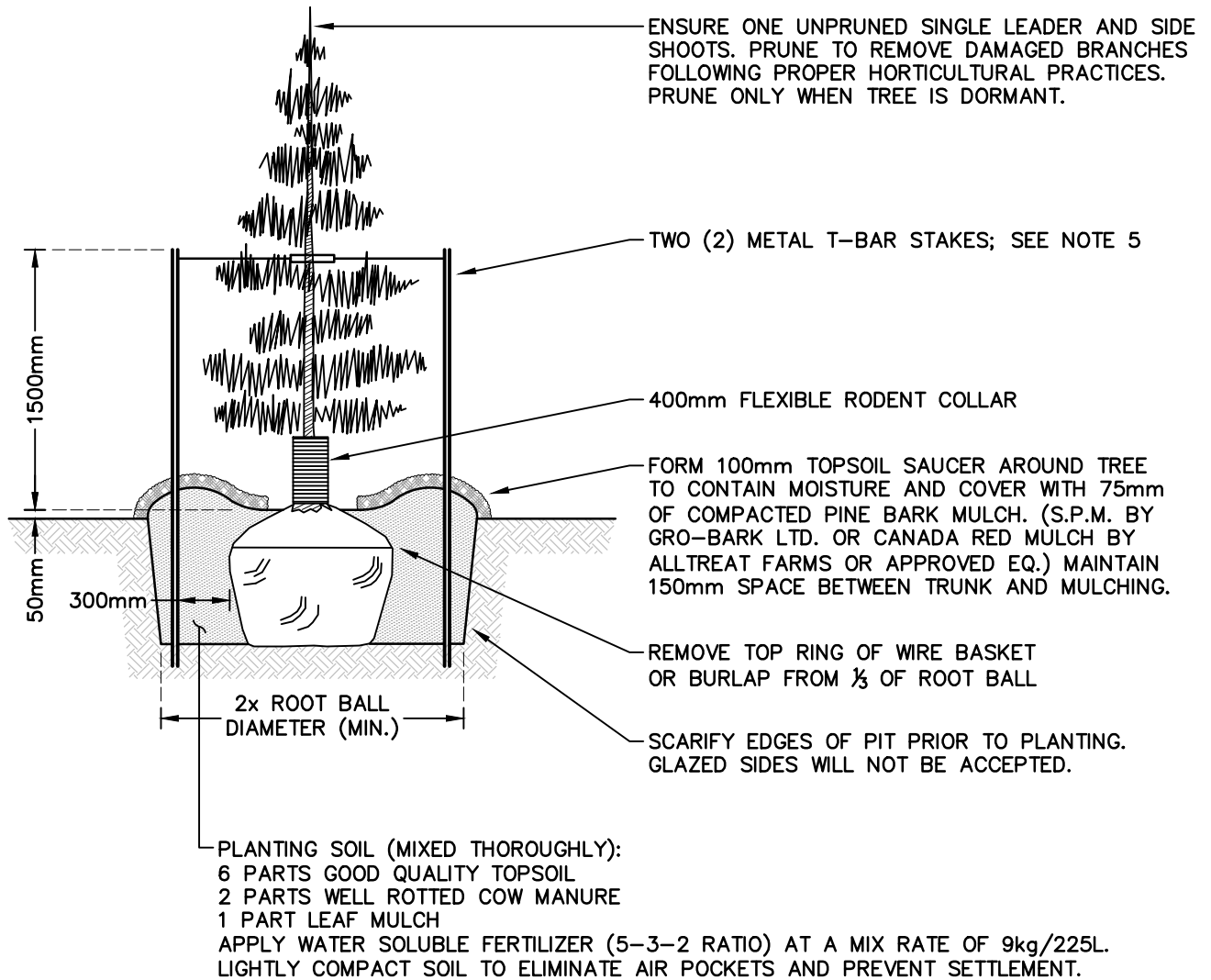
Rev. Date

2024/SEP

Standard No.

18-01.01





NOTES:

1. TREES ARE TO BE PLANTED PLUMB AND MAINTAINED PLUMB THROUGHOUT THE WARRANTY AND MAINTENANCE PERIOD.
2. TREES ARE TO BE PLANTED AT 50mm ABOVE ORIGINAL NURSERY GRADE AND SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
3. TREES WITH TRUNK SCARS AND/OR WEAK GRAFT UNION WILL NOT BE ACCEPTED.
4. NO TREE PITS ARE TO BE LEFT OPEN OVERNIGHT.
5. METAL T-BARS ARE TO BE 38mm x 2400mm, DRILLED TO RECEIVE GALVANIZED 11 GAUGE GUY WIRES, THREADED THROUGH 10mm ϕ BLACK RUBBER HOSE WRAPPED AROUND TRUNK. ANCHOR T-BARS FIRMLY INTO UNDISTURBED SUBGRADE A MIN. OF 300mm AWAY FROM THE ROOT BALL. METAL T-BARS ARE TO BE REMOVED AT COMPLETION OF THE WARRANTY PERIOD.
6. STANDARD MINIMUM CALIPER SIZE IS 60mm. CALIPER SIZE IS TO BE MEASURED AT STANDARD D.B.H. 1.4m ABOVE GRADE.

Title

**CONIFEROUS
TREE PLANTING**

Scale

1: 40

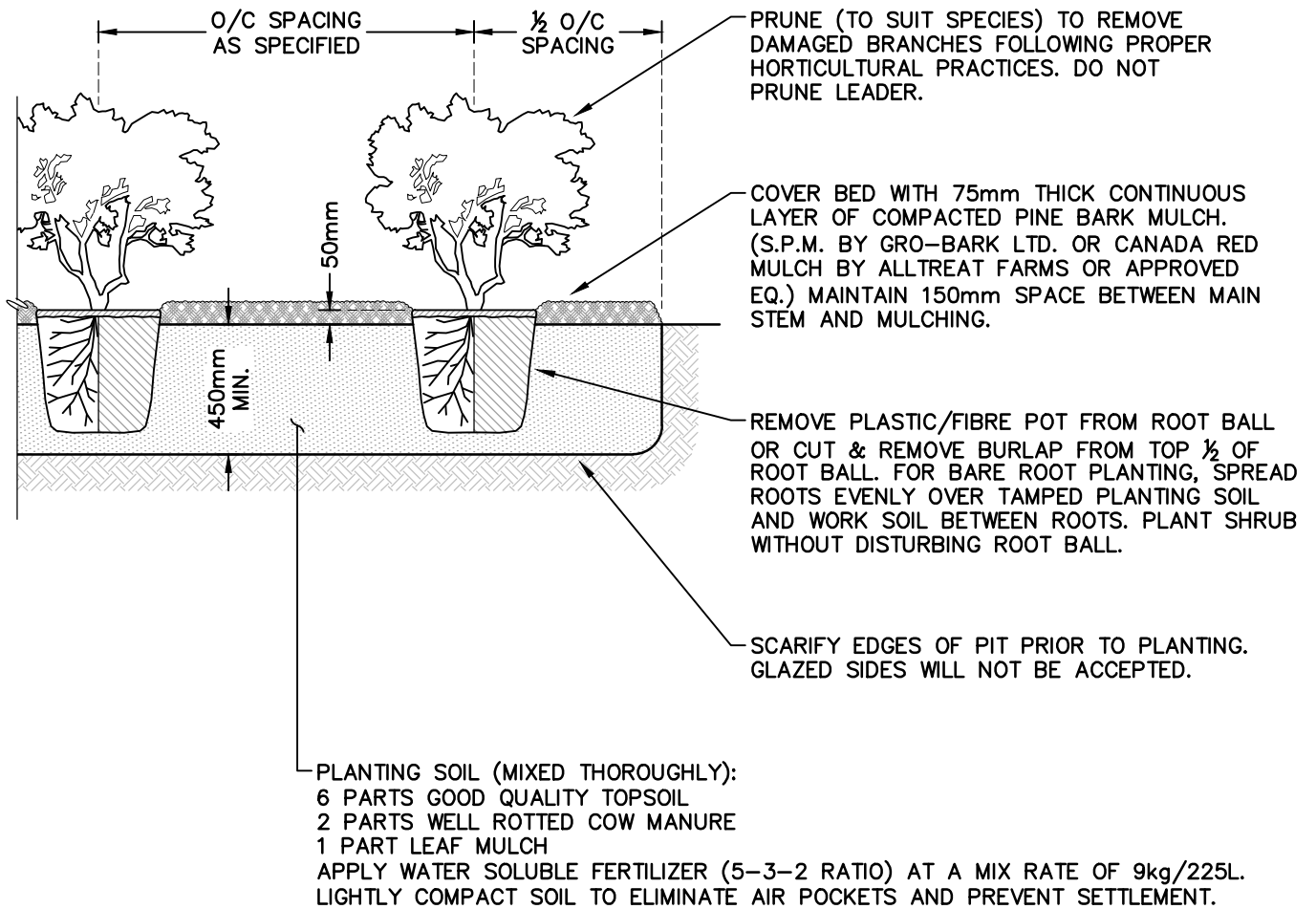
Rev. Date

2024/SEP

Standard No.

18-01.02





NOTES:

1. EXCAVATE ENTIRE SHRUB BED AS SHOWN ON DRAWINGS. REMOVE RUBBING AND/OR BROKEN BRANCHES, NURSERY TAGS, AND PLASTIC/METAL. (DO NOT TOP PRUNE.)
2. SHRUBS TO BE PLANTED AT 50mm ABOVE ORIGINAL NURSERY GRADE AND SURROUNDING GRADE TO ALLOW FOR SETTLEMENT.
3. NO SHRUB PITS ARE TO BE LEFT OPEN OVERNIGHT.

Title

**SHRUB/PERENNIAL
PLANTING**

Scale

1:25

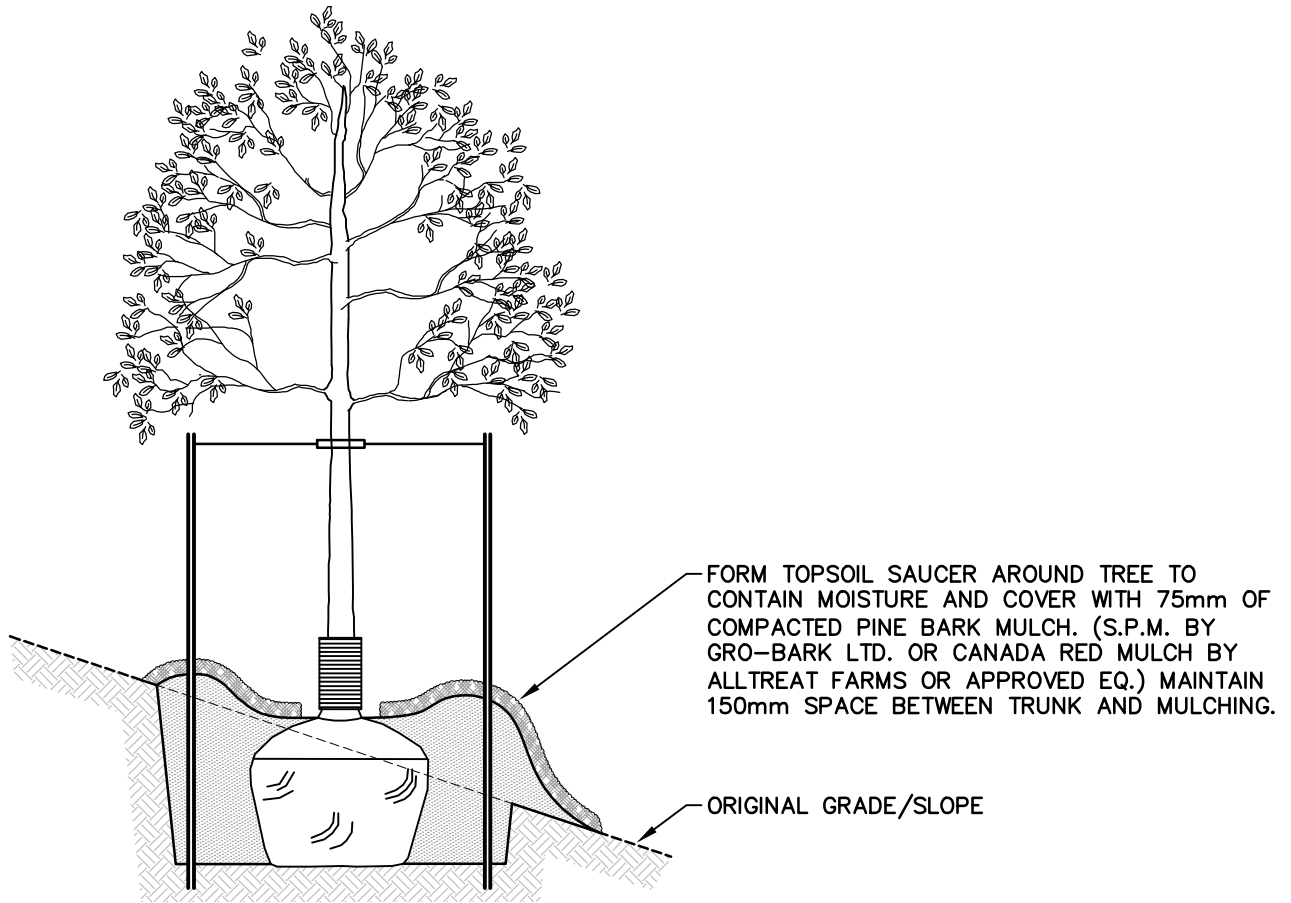
Rev. Date

2024/SEP

Standard No.

18-01.03





NOTES:

1. THIS DRAWING IS INTENDED TO ILLUSTRATE THE REQUIRED PLANTING ADJUSTMENTS REQUIRED TO PLANT ON A SLOPE. FOR ALL OTHER PLANTING INFORMATION REFER TO TMSD 18-01.01 & 18-01.02.

Title

**TREE PLANTING
(ON SLOPE)**

Scale

1: 40

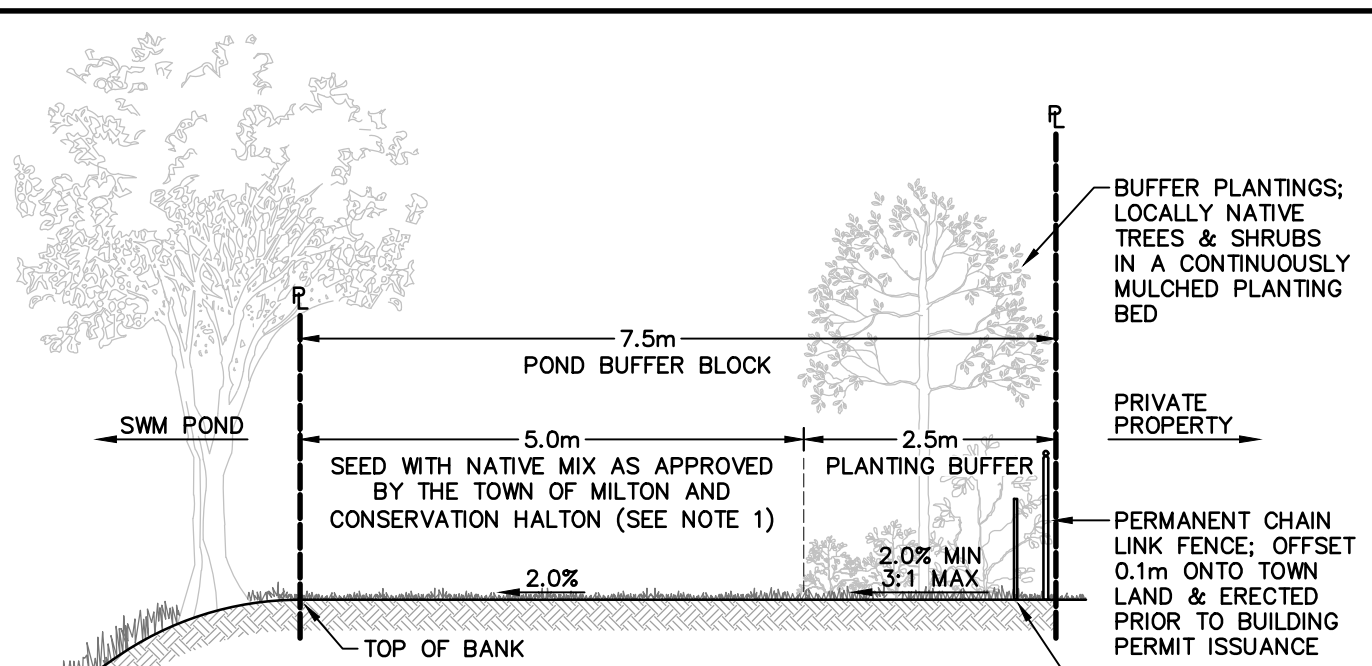
Rev. Date

2024/SEP

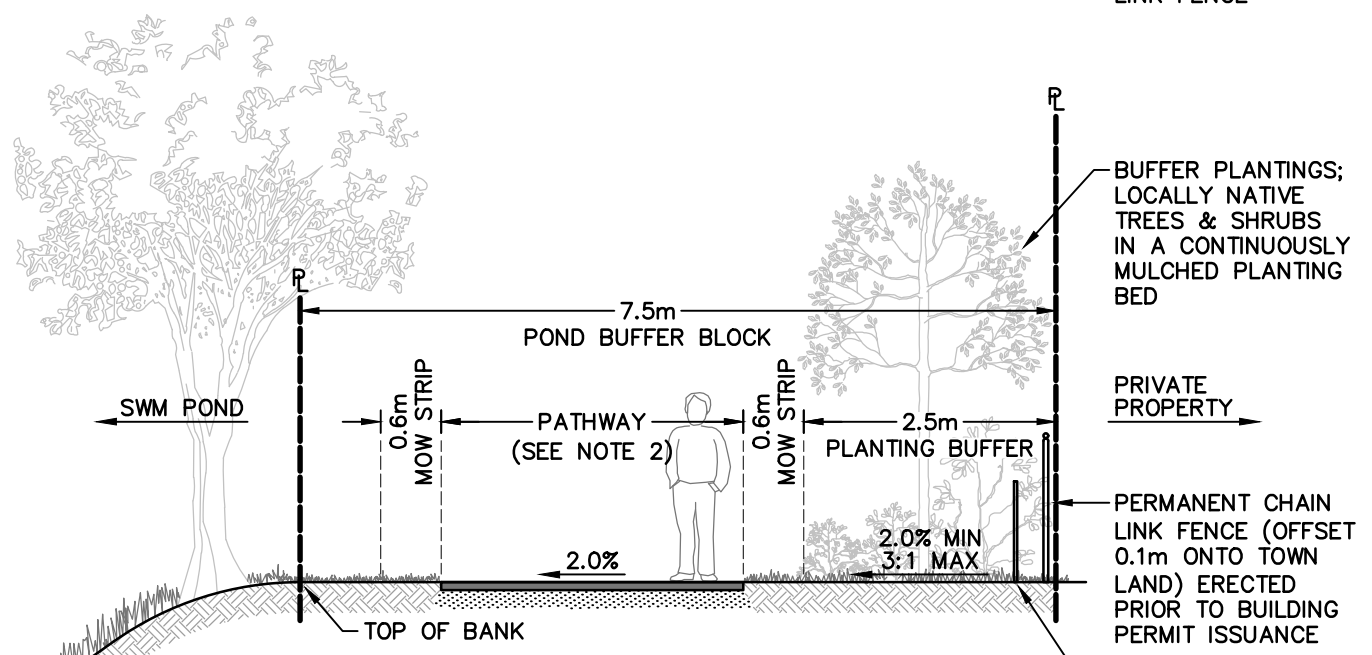
Standard No.

18-02.01






OPTION 'A' (WITHOUT TRAIL)

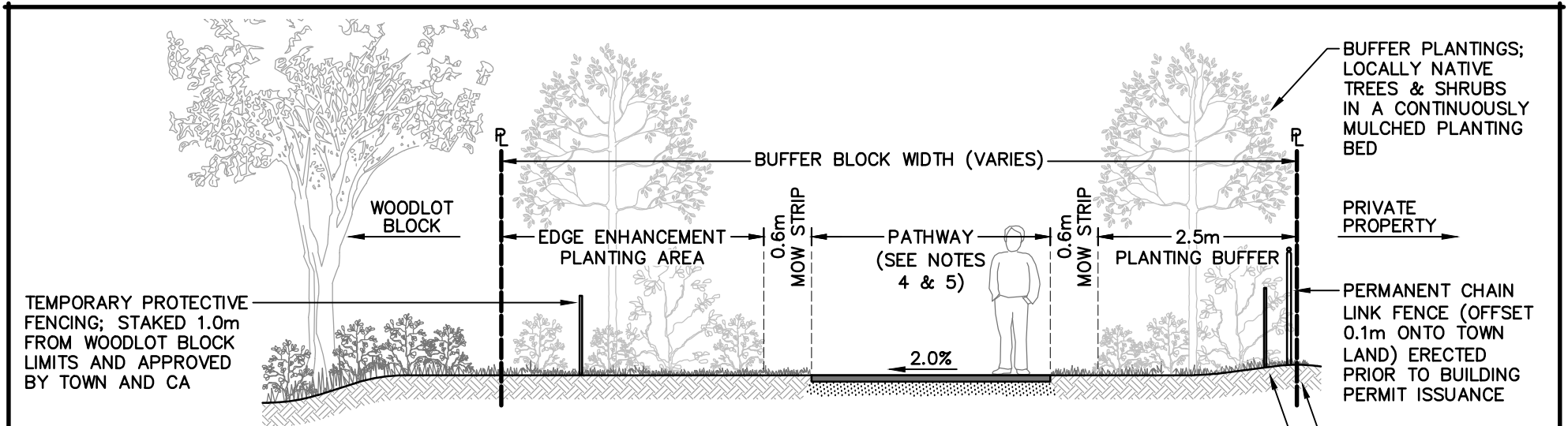


OPTION 'B' (WITH TRAIL)

NOTES:

1. SEED ALL DISTRIBUTED AREAS WITHIN THE ENVIRONMENTAL BUFFER WITH NATIVE SEED MIX AS APPROVED BY THE TOWN OF MILTON AND CONSERVATION HALTON.
2. PATHWAY SURFACING AND WIDTH AS DETERMINED BY TOWN. (REFER TO TOWN DETAIL FOR LIGHT-DUTY ASPHALT PAVING AND LIMESTONE SCREENINGS PAVING.)

POND BUFFER BLOCK	Scale	1:75	
	Rev. Date	2024/SEP	
	Standard No.	19-01.01	
	Title		



TEMPORARY PROTECTIVE FENCING; STAKED 1.0m FROM WOODLOT BLOCK LIMITS AND APPROVED BY TOWN AND CA

BUFFER PLANTINGS; LOCALLY NATIVE TREES & SHRUBS IN A CONTINUOUSLY MULCHED PLANTING BED

PRIVATE PROPERTY

PERMANENT CHAIN LINK FENCE (OFFSET 0.1m ONTO TOWN LAND) ERECTED PRIOR TO BUILDING PERMIT ISSUANCE

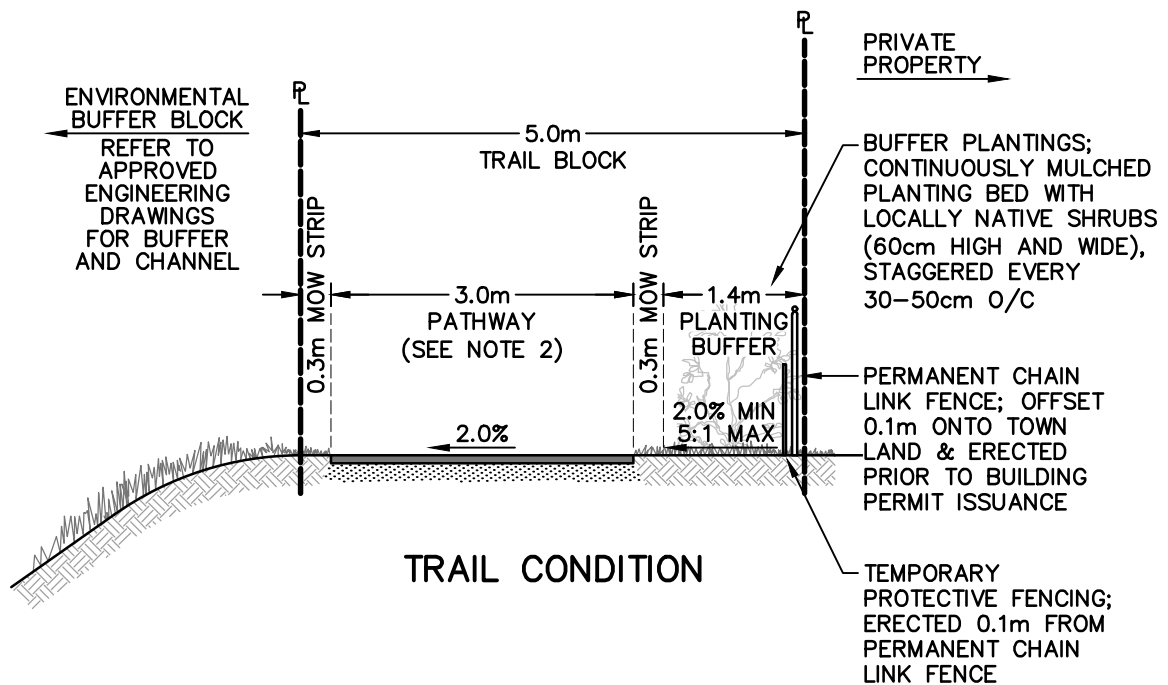
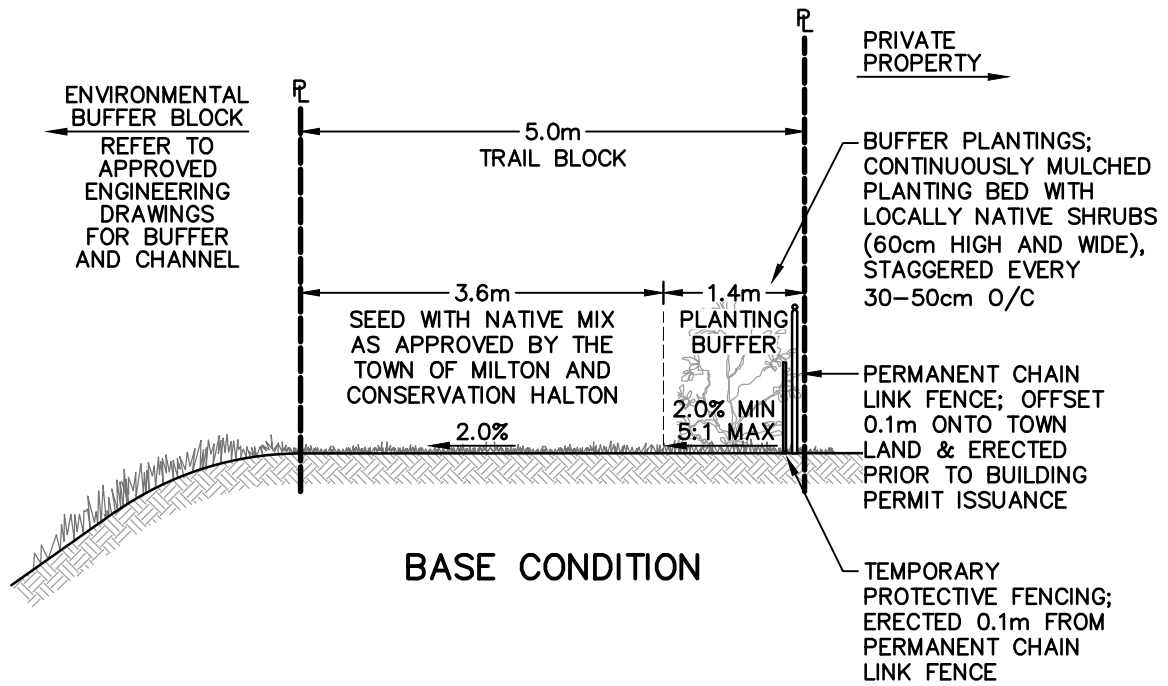
DRAINAGE BREAK AT RL

TEMPORARY PROTECTIVE FENCING; ERECTED 0.3m FROM PERMANENT CHAIN LINK FENCE

NOTES:

1. PROTECTIVE FENCING TO BE INSTALLED PRIOR TO COMMENCING ANY WORKS.
2. WOODLOT CONVEYANCE WORKS TO BE COMPLETED AND APPROVED BY THE TOWN PRIOR TO SUBDIVISION REGISTRATION.
3. MINIMUM BASE CONDITION:
 - a) REMOVAL OF FOREIGN DEBRIS AND INVASIVE PLANTS.
 - b) MAINTAIN EXISTING HYDROLOGIC REGIME THROUGHOUT THE BUFFER. THIS MAY INCLUDE THE USE OF SWALES AND CULVERTS. GRADING IS TO BE PER THE APPROVED PLANS.
 - c) THE AREA IS TO BE SCARIFIED AND SEEDED WITH AN APPROVED NATIVE SEED MIX.
 - d) IMPLEMENT ENHANCEMENT PLANTINGS ALONG WOODLOT EDGE AS DETERMINED BY TOWN.
 - e) INSTALL LOCALLY NATIVE TREES & SHRUBS IN A CONTINUOUS PLANTING BED ADJACENT TO THE DEVELOPMENT TO FORM A BUFFER STRIP.
3. WOODLOT EDGE WORKS WILL BE ADJUSTED ON A SITE-BY-SITE BASIS, AND THE REQUIREMENTS WILL BE DETERMINED THROUGH A WOODLOT EDGE ASSESSMENT REPORT. THE APPLICANT IS TO PROVIDE AND IMPLEMENT A WOODLOT COMPENSATION PLAN, TO THE SATISFACTION OF THE TOWN.
4. PATHWAY LOCATIONS ARE DETERMINED ON A SITE-BY-SITE BASIS AND CONSTRUCTED BY EITHER THE DEVELOPER OR THE TOWN, BASED ON THE SUBDIVISION AGREEMENT.
5. PATHWAY SURFACING AND WIDTH TO BE DETERMINED BY TOWN.
6. PLANTING BUFFER:
 - a) SHRUBS TO BE PLANTED AT 1.0m-1.5m O/C, DEPENDING ON SPECIES, TO PROVIDE COMPLETE COVERAGE OF BED.
 - b) TREES TO BE A MIX OF DECIDUOUS & CONIFEROUS SPECIES, PLANTED IN GROUPS, WITH A MIN. OF 1 TREE PER 10m² OF 2.5m WIDE PLANTING BED (OR 1 TREE PER 4.0m OF CHAIN-LINK FENCE).
 - c) MINIMUM SIZE OF DECIDUOUS TREES TO BE 40mm CAL.
 - d) MINIMUM HEIGHT OF CONIFEROUS TREES TO BE 120cm.

<h1>WOODLOT BUFFER BLOCK</h1>	Scale	1:75	
	Rev. Date	2024/SEP	
	Standard No.	19-01.02	



NOTES:

1. SEED ALL DISTRIBUTED AREAS WITHIN THE ENVIRONMENTAL BUFFER WITH NATIVE SEED MIX AS APPROVED BY THE TOWN OF MILTON AND CONSERVATION HALTON.
2. PATHWAY SURFACING AND WIDTH AS DETERMINED BY TOWN. (REFER TO TOWN DETAIL FOR LIGHT-DUTY ASPHALT PAVING AND LIMESTONE SCREENINGS PAVING.)
3. ALL WORKS IN THE BUFFER ARE TO BE APPROVED BY THE TOWN OF MILTON AND CONSERVATION HALTON PRIOR TO ACCEPTANCE.
4. THE 1.4m PLANTING BUFFER WILL REQUIRE CONTINUOUS WEED SUPPRESSION TO ACHIEVE A SUCCESSFUL BUFFER. EXCESSIVE WEEDS COULD RESULT IN THE TOWN NOT ACCEPTING THE BUFFER BLOCK UNTIL SATISFACTORY RESTORATIVE WORKS HAVE BEEN ACHIEVED.

Title

TRAIL BLOCK

Scale

1:75

Rev. Date

2024/SEP

Standard No.

19-02.01

