Drawings for Parks and Open Spaces (SPO)

Volume 3 of the Ontario Provincial Standard Drawings (OPSD), and the current City of London Standard Drawings, are amended as follows:

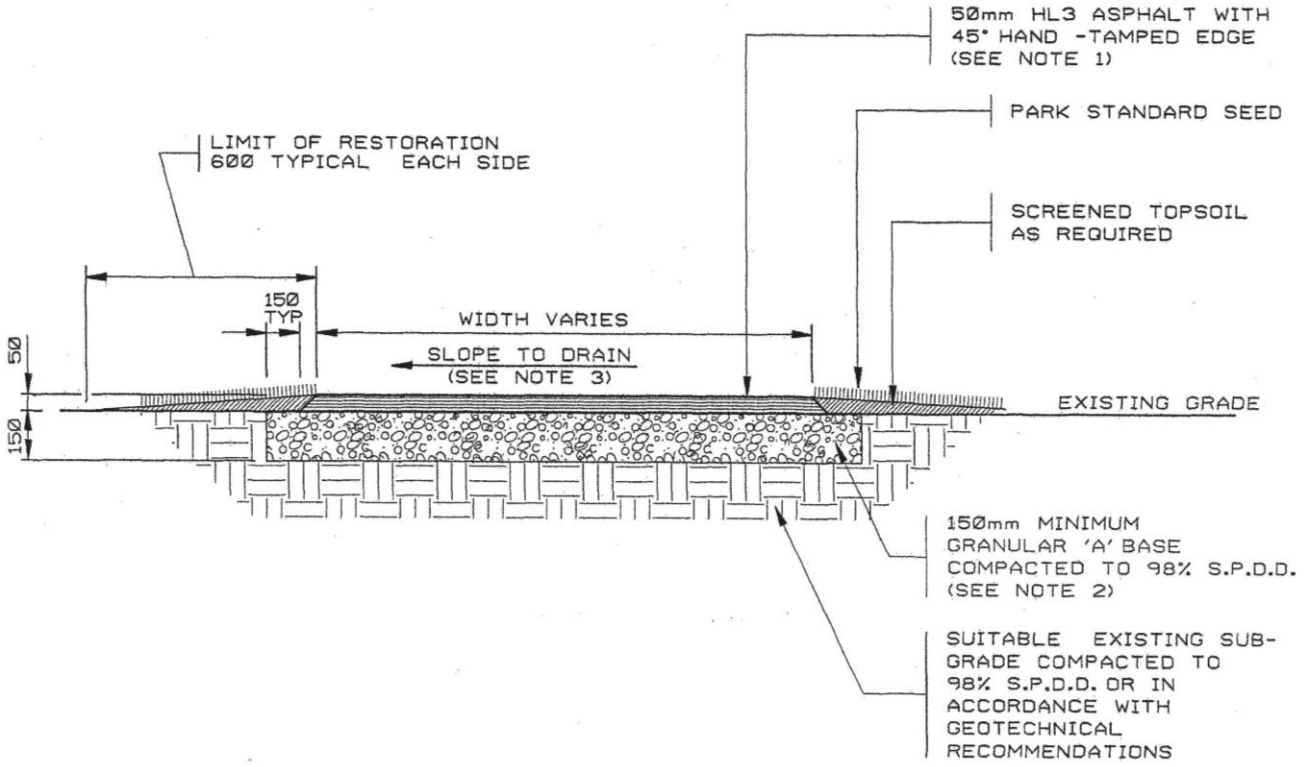
Title of Drawing	Date of Drawing	City of London Drawing Classification	Date Drawing Superseded or Deleted	Old Drawing Title (if applicable)
Asphalt Pathway	1/14/2002	SPO-1.1	-	-
Multi Use Pathway	12/18/2002	SPO-1.2	-	-
Granular Pathway	12/18/2002	SPO-1.3	-	-
Asphalt Maintenance Access Road	8/27/2012	SPO-1.4A	9/22/2010	Asphalt Maintenance Access Pathway
Asphalt Maintenance Access Road	9/22/2010	SPO-1.4B	-	-
Turf Maintenance Access Road	8/30/2012	SPO-1.4C	9/22/2010	Turf Maintenance Access Road
Park Catch Basin and Pipe Subdrains	11/1/2005	SPO-1.5	-	-
Minimum Park Corridor- Section	8/9/2009	SPO- 1.6	-	-
Minimum Park Corridor Plan	8/9/2009	SPO-1.7	-	-
Concrete Paving with Mesh	8/27/2014	SPO-1.8	-	-
Typical Play Area Layout	8/26/2014	SPO-2.1	9/2/2011	Typical play Area Layout
Play Area Section at Concrete Bench Pad	9/2/2011	SPO-2.2	11/6/2006	Play Area Section at Concrete Bench Pad
Play Area Section at Drainage Hole	8/26/2014	SPO-2.3	11/6/2006	Play Area Section at Drainage Hole

Title of Drawing	Date of Drawing	City of London Drawing Classification	Date Drawing Superseded or Deleted	Old Drawing Title (if applicable)
Temporary Play Area Layout	11/6/2006	SPO-2.4	11/1/2005	Temporary Play Area Layout
Play Area Section at Depressed Curb	8/26/2014	SPO-2.5	-	-
Asphalt Parking Area With Precast Curb	12/18/2002	SPO-3.1	-	-
Asphalt Parking Area with Barrier Curb	12/18/2002	SPO-3.2	-	-
Granular Parking Area with Precast Curb	12/18/2002	SPO-3.3	-	-
Granular Parking Area with Barrier Curb	12/18/2002	SPO-3.4	-	-
Cedar Rail Fence	11/1/2005	SPO-4.1	11/20/2002	Cedar Rail Fence
Cedar Rail Entrance Corral	11/21/2002	SPO-4.2	-	-
Cedar Rail Single Access Gate	12/18/2002	SPO-4.3	-	-
Cedar Rail Double Access Gate	11/26/2002	SPO-4.4	-	-
Robust Silt Barrier	10/16/2007	SPO-4.5	11/16/2002	Robust Silt Barrier
Post and Cable	11/26/2002	SPO-4.6	-	-
Property Boundary Monument	11/14/2002	SPO-4.7	-	-
Park Chain Link Fence	10/16/2007	SPO-4.8	-	-

Title of Drawing	Date of Drawing	City of London Drawing Classification	Date Drawing Superseded or Deleted	Old Drawing Title (if applicable)
General Notes	9/2/2011	SPO-5.1	10/16/2007	Boardwalk and Wingwall Plan
3.7m Span Boardwalk/Headwall	9/2/2011	SPO-5.2	10/16/2007	Boardwalk Section Typ. A-A
3.7m Span Boardwalk Section A	9/2/2011	SPO.5.3	10/16/2007	Boardwalk Section Typ. B-B
Headwall Details	9/2/2011	SPO-5.4	10/16/2007	Concrete Wall and Wingwall Type: C-C
5m Span Boardwalk Plan / Details	9/2/2001	SPO-5.5	9/2/2011	-
5m Span Boardwalk – Section F	8/30/2013	SPO-5.6	10/16/2007	-
-	-	-	11/6/2006	Trail Boardwalk (On Grade)
-	-	-	11/6/2006	Trail Boardwalk (Elevated)
Surface Mount Park Bench and Concrete Pad	11/6/2006	SPO-6.1	11/27/2002	Surface Mount Park Bench and Concrete Pad
Solid Bollard	11/14/2002	SPO-6.2	-	-
Removable Bollard	11/1/2005	SPO-6.3	11/14/2002	Removable Bollard
Armourstone Seat	9/2/2011	SPO-6.4	-	-
Armourstone Retaining Wall	9/2/2011	SPO-6.5	-	-
Armourstone Block	9/2/2011	SPO-6.6	-	-
Neighborhood Park Bike Rack	8/27/2012	SPO-6.7	-	-

Title of Drawing	Date of Drawing	City of London Drawing Classification	Date Drawing Superseded or Deleted	Old Drawing Title (if applicable)
-	-	-	11/6/2006	Neighborhood Park Bike Rack
Neighborhood Park Sign Layout	12/18/2002	SPO-7.1	-	-
Neighborhood Park Sign Installation	11/1/2005	SPO-7.2	12/3/2002	Neighborhood Park Sign Installation
Wood Chip Trail	10/16/2007	SPO-8.1	11/6/2006	Wood Chip Trail
Trail Boardwalk (On Grade)	9/2/2011	SPO-8.2	10/16/2007	-
Trail Boardwalk (Elevated)	9/2/2011	SPO-8.3	10/16/2007	-
Typical Shrub Planting Detail	8/27/2012	SPO-9.1	-	-
Naturalization Native Shrub Module Detail	8/27/2012	SPO-9.2	-	-
Soccer Pitch Layout	11/1/2005	SPO-10.1	-	-
Double Mini Soccer Pitch Within	11/1/2005	SPO-10.2	-	-
Regulation Pitch Layout	-	-	-	-
Soccer Pitch Grading	11/1/2005	SPO-10.3	-	-
Baseball Diamond Layout	9/2/2011	SPO-11.1	11/1/2005	-
Baseball Diamond Grading	11/1/2005	SPO-11.2	-	-
Half-Court Basketball Layout	8/27/2012	SPO-13.1	9/2/2011	Half-Court Basketball Layout

Title of Drawing	Date of Drawing	City of London Drawing Classification	Date Drawing Superseded or Deleted	Old Drawing Title (if applicable)
Full-Court Basketball Layout	9/2/2011	SPO-13.2	-	-
Typical Basketball Court Cross-Section	9/2/2011	SPO-13.3	-	-
Basketball Goal Assembly	9/2/2011	SPO-13.4	-	-



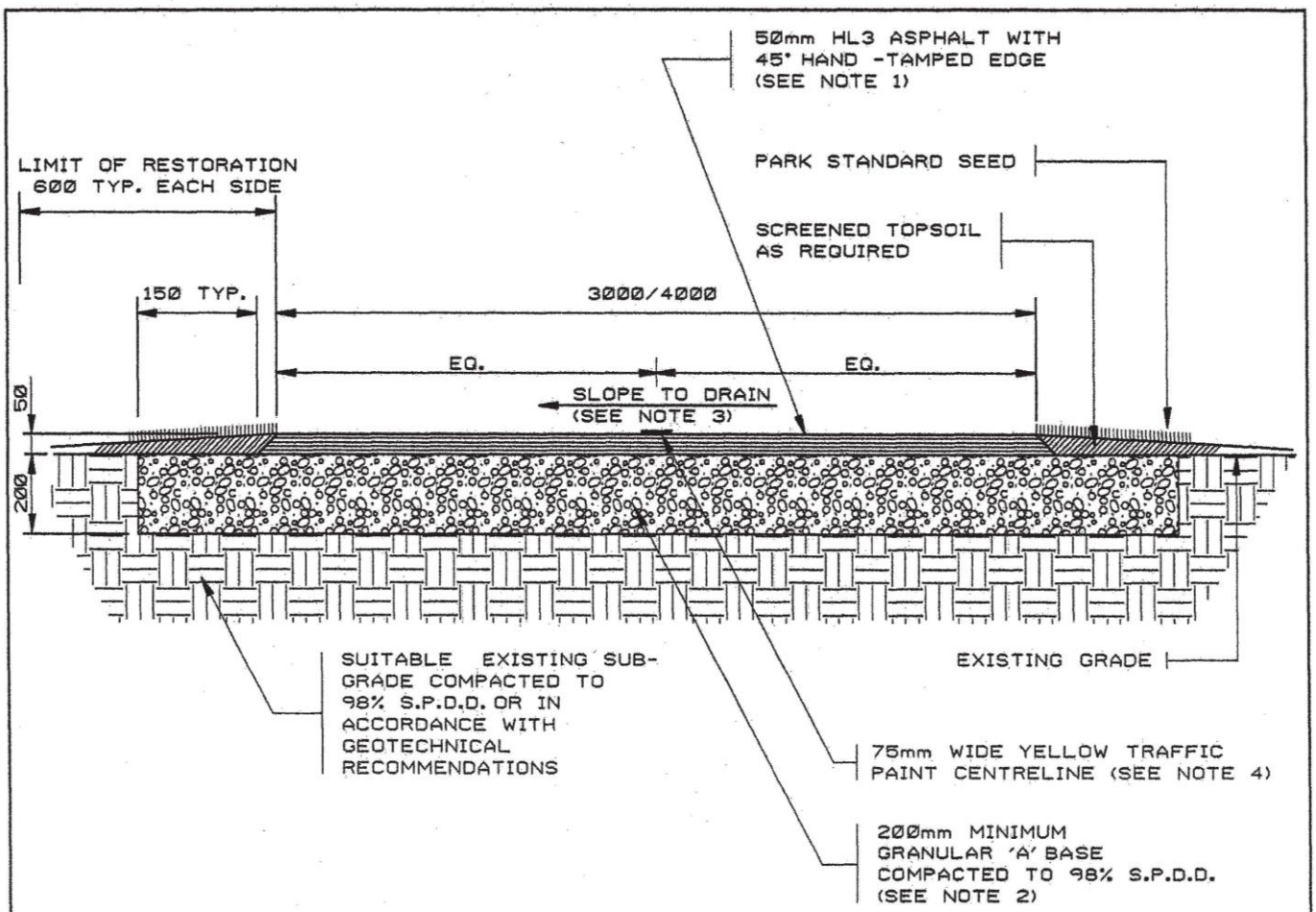
NOTES:

1. ASPHALT SURFACE TO BE ONE (1) 50mm LAYER (AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE WITH O.P.S.S. 310. ASPHALT EDGE TO BE 45° HAND TAMPED SMOOTH EDGE WITHOUT LATERAL DEVIATIONS.
2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.
3. FINISHED SLOPE ON PATHWAY SURFACE TO BE 1% MINIMUM CROWNED OR CROSS-SLOPED TO SUIT EXISTING AND/OR PROPOSED GRADES.
4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

ASPHALT PATHWAY

DWG	DATE	APPROVED BY
SPO – 1.1	2002 01 14	PARKS PLANNING & DESIGN



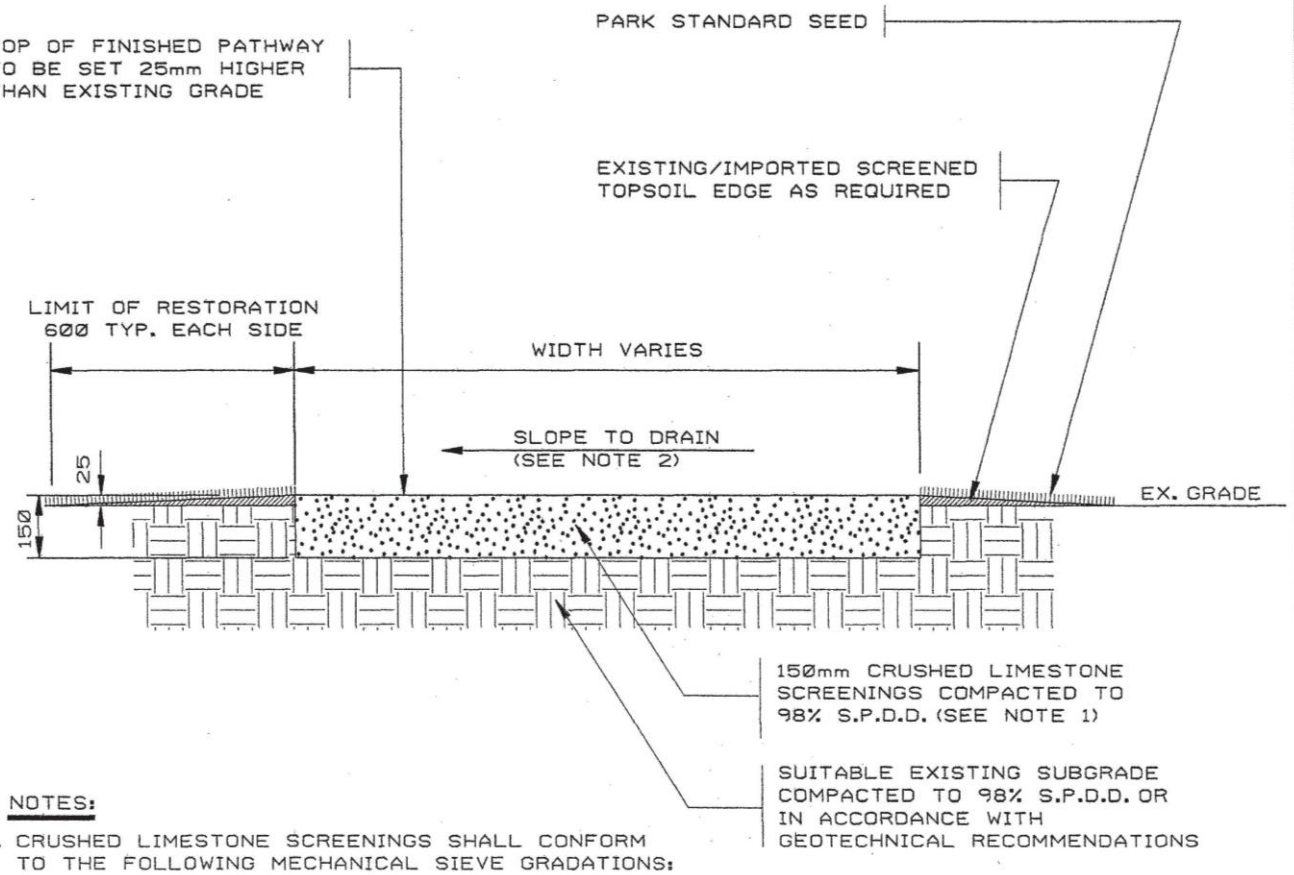
NOTES:

1. ASPHALT SURFACE TO BE ONE (1) 50mm LAYER (AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE WITH O.P.S.S. 310. ASPHALT EDGE TO BE 45° HAND TAMPED SMOOTH EDGE WITHOUT LATERAL DEVIATIONS.
2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.
3. FINISHED SLOPE ON PATHWAY SURFACE TO BE 1% MINIMUM CROWNED OR CROSS-SLOPED TO SUIT EXISTING AND/OR PROPOSED GRADES.
4. CENTRELINE MARKING SHALL BE IN ACCORDANCE WITH O.P.S.S. 532
5. THIS DETAIL IS NOT TO BE USED AS A MAINTENANCE ACCESS PATHWAY
6. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

MULTI – USE PATHWAY

DWG SPO – 1.2	DATE 2002 12 18	APPROVED BY PARKS PLANNING & DESIGN



NOTES:

1. CRUSHED LIMESTONE SCREENINGS SHALL CONFORM TO THE FOLLOWING MECHANICAL SIEVE GRADATIONS:

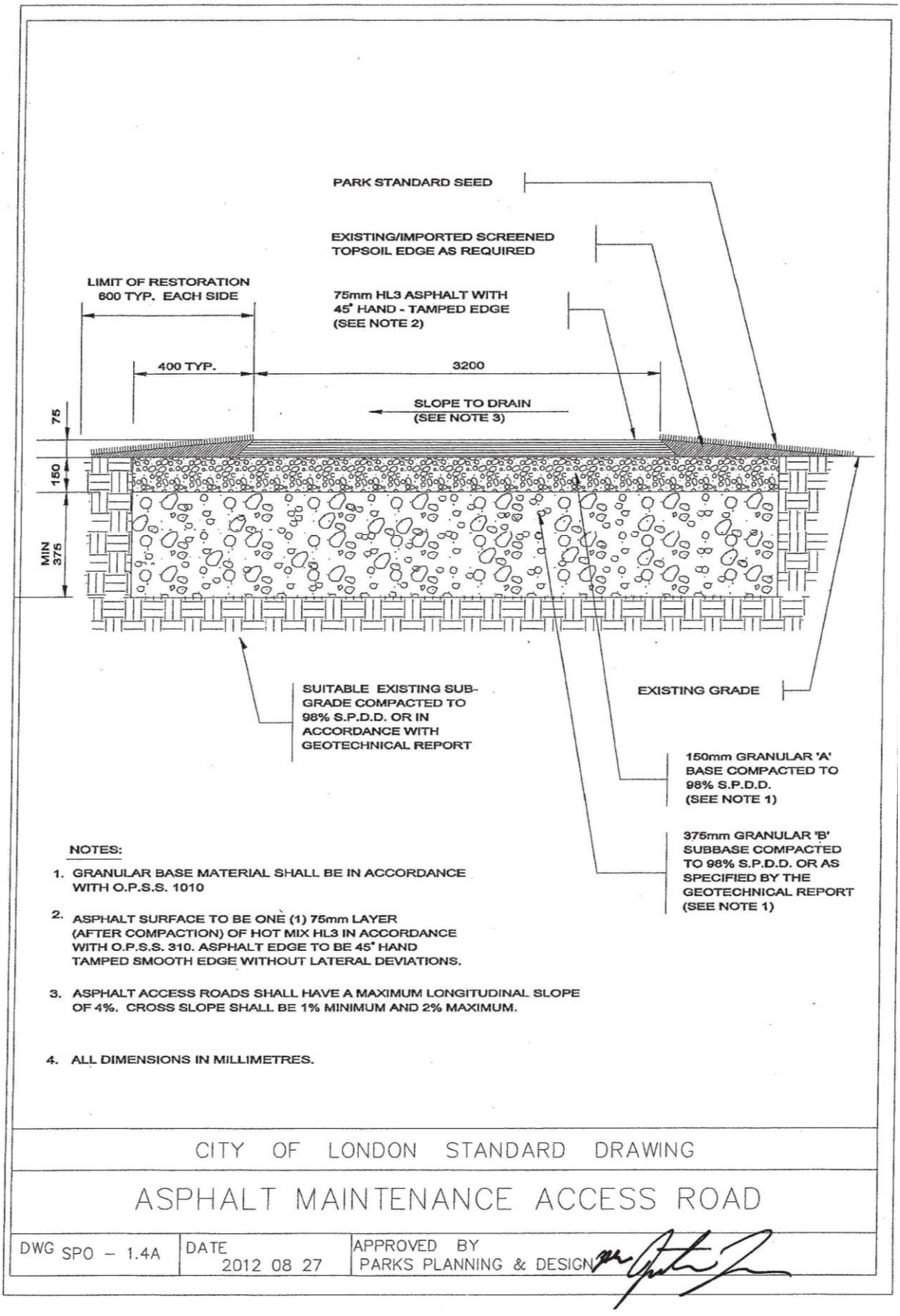
SIEVE SIZE	SPECIFIC REQUIREMENT
3/8"	100%
#4	50-100%
#16	20-55%
#50	10-30%
#200	0-12%

2. FINISHED SLOPE ON PATHWAY SURFACE TO BE 1% MINIMUM CROWNED OR CROSS-SLOPED TO SUIT EXISTING AND/OR PROPOSED GRADES.
3. FINISHED LINEAR SLOPE ON PATHWAY NOT TO EXCEED 4%.
4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

GRANULAR PATHWAY

DWG	DATE	APPROVED BY
SPO – 1.3	2002 12 18	PARKS PLANNING & DESIGN



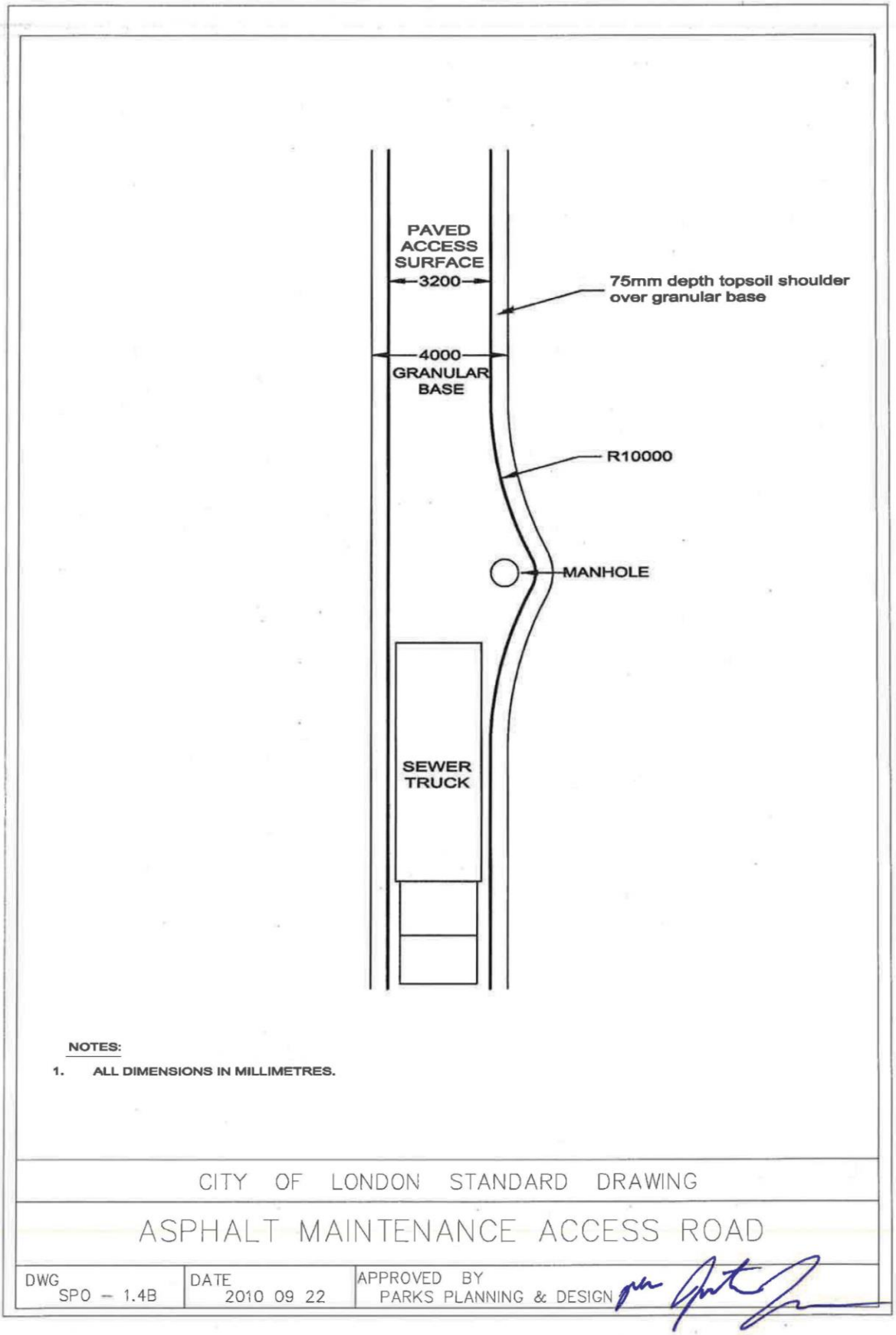
NOTES:

1. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010
2. ASPHALT SURFACE TO BE ONE (1) 75mm LAYER (AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE WITH O.P.S.S. 310. ASPHALT EDGE TO BE 45° HAND TAMPED SMOOTH EDGE WITHOUT LATERAL DEVIATIONS.
3. ASPHALT ACCESS ROADS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4%. CROSS SLOPE SHALL BE 1% MINIMUM AND 2% MAXIMUM.
4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

ASPHALT MAINTENANCE ACCESS ROAD

DWG SPO – 1.4A	DATE 2012 08 27	APPROVED BY PARKS PLANNING & DESIGN



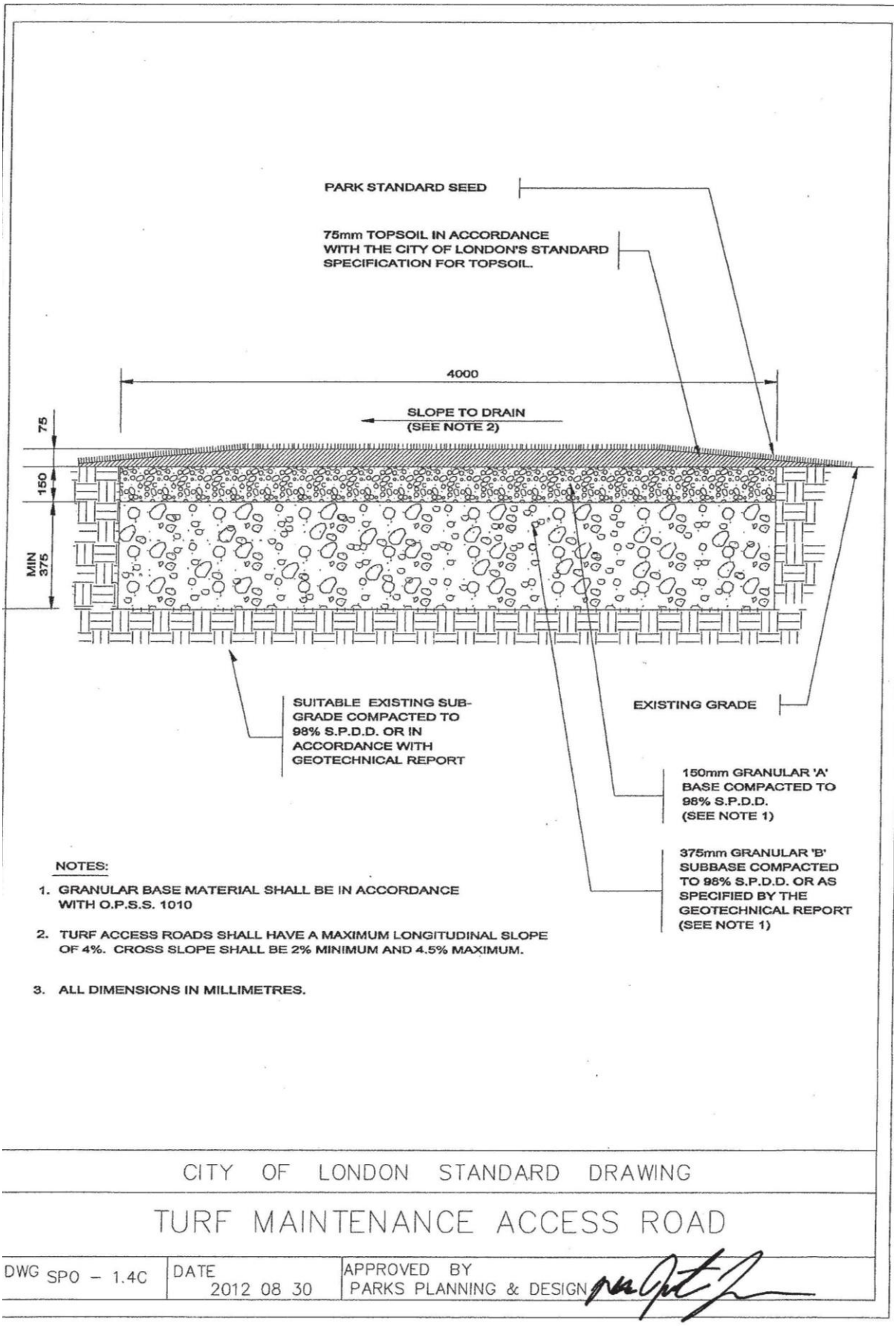
NOTES:

1. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

ASPHALT MAINTENANCE ACCESS ROAD

DWG	DATE	APPROVED BY
SPO – 1.4B	2010 09 22	PARKS PLANNING & DESIGN



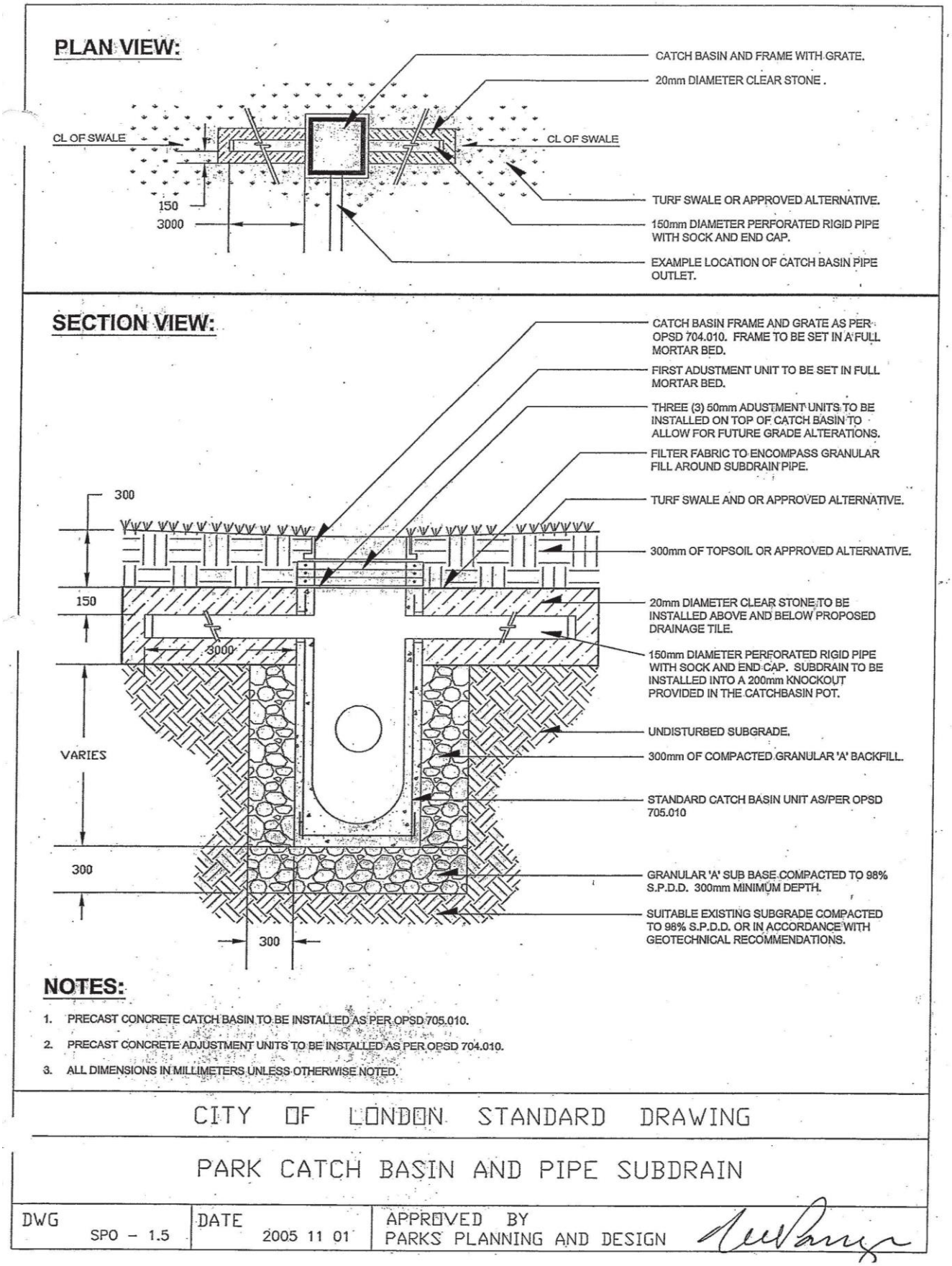
NOTES:

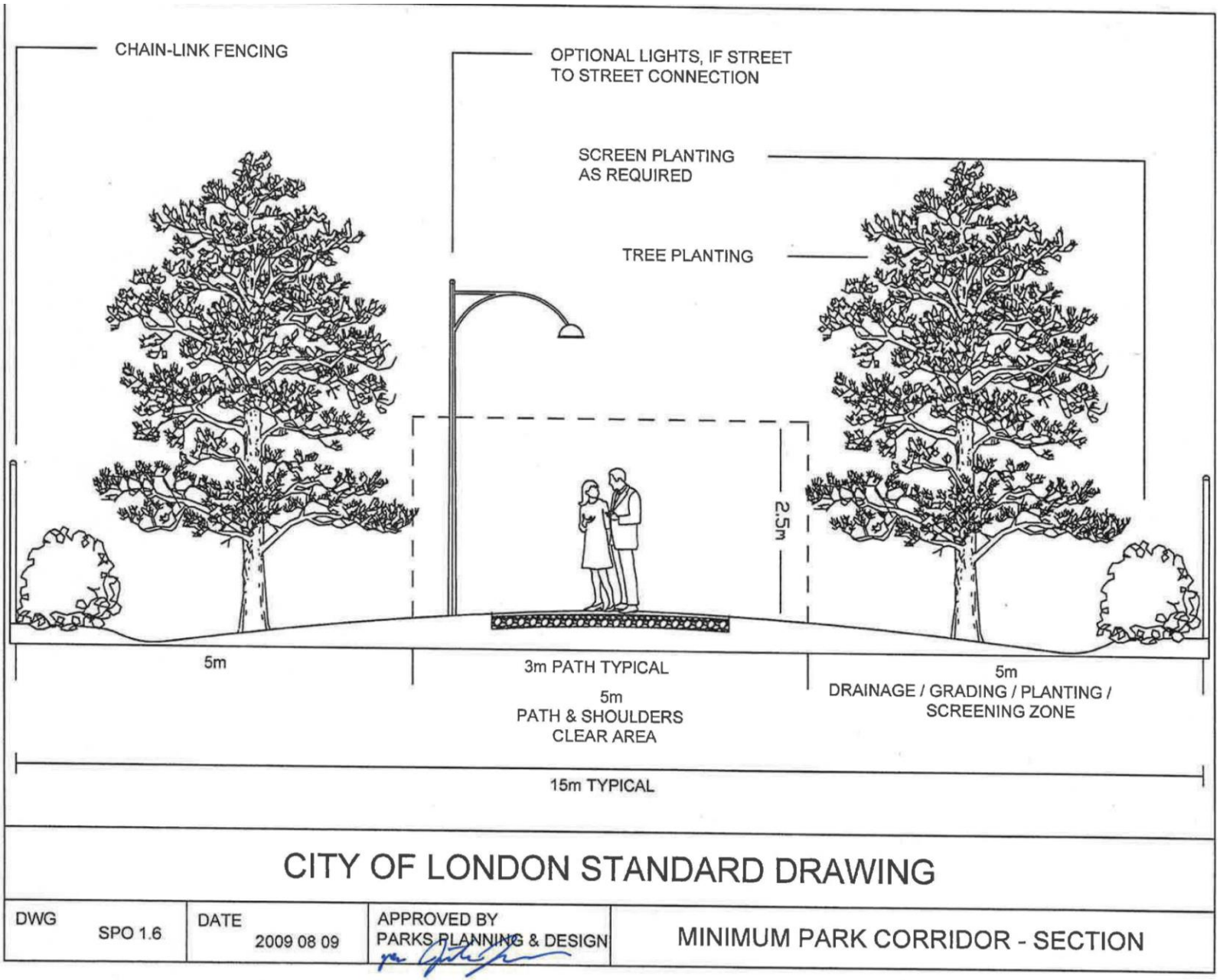
1. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010
2. TURF ACCESS ROADS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4%. CROSS SLOPE SHALL BE 2% MINIMUM AND 4.5% MAXIMUM.
3. ALL DIMENSIONS IN MILLIMETRES.

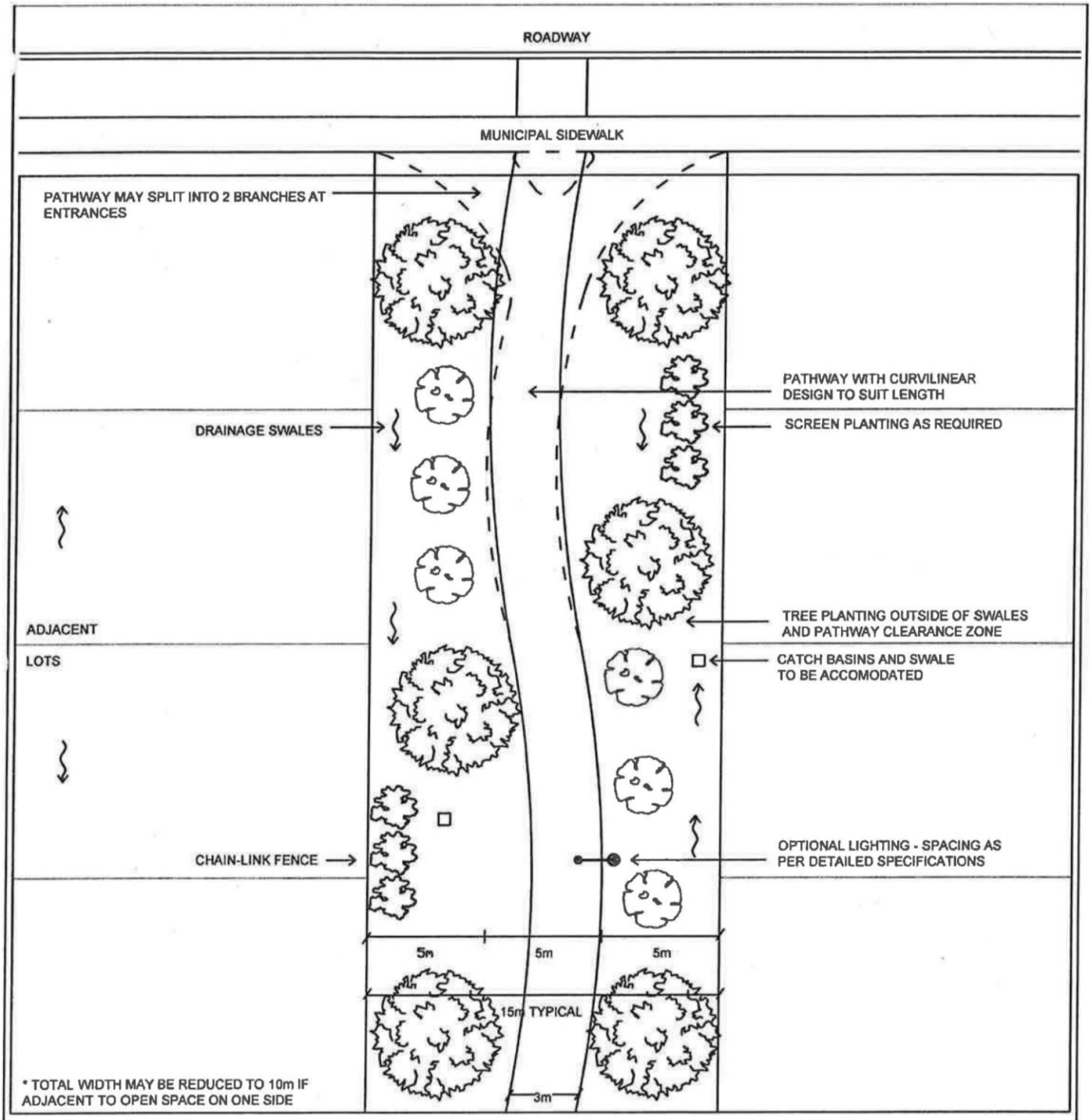
CITY OF LONDON STANDARD DRAWING

TURF MAINTENANCE ACCESS ROAD

DWG SPO – 1.4C	DATE 2012 08 30	APPROVED BY PARKS PLANNING & DESIGN


PLAN VIEW:
CATCH BASIN AND FRAME WITH GRATE.
20mm DIAMETER CLEAR STONE .
CL OF SWALE
CL OF SWALE
150
3000
TURF SWALE OR APPROVED ALTERNATIVE.
150mm DIAMETER PERFORATED RIGID PIPE WITH SOCK AND END CAP.
EXAMPLE LOCATION OF CATCH BASIN PIPE OUTLET.
SECTION VIEW:
CATCH BASIN FRAME AND GRATE AS PER OPSD 704.010. FRAME TO BE SET IN A FULL MORTAR BED.
FIRST ADUSTMENT UNIT TO BE SET IN FULL MORTAR BED.
THREE (3) 50mm ADUSTMENT UNITS TO BE INSTALLED ON TOP OF CATCH BASIN TO ALLOW FOR FUTURE GRADE ALTERATIONS.
FILTER FABRIC TO ENCOMPASS GRANULAR FILL AROUND SUBDRAIN PIPE.
300
TURF SWALE AND OR APPROVED ALTERNATIVE.
300mm OF TOPSOIL OR APPROVED ALTERNATIVE.
150
20mm DIAMETER CLEAR STONE TO BE INSTALLED ABOVE AND BELOW PROPOSED DRAINAGE TILE.
3000
150mm DIAMETER PERFORATED RIGID PIPE WITH SOCK AND END CAP. SUBDRAIN TO BE INSTALLED INTO A 200mm KNOCKOUT PROVIDED IN THE CATCHBASIN POT.
UNDISTURBED SUBGRADE.
VARIES
300mm OF COMPACTED GRANULAR 'A' BACKFILL.
STANDARD CATCH BASIN UNIT AS/PER OPSD 705.010
300
GRANULAR 'A' SUB BASE COMPACTED TO 98% S.P.D.D. 300mm MINIMUM DEPTH.
SUITABLE EXISTING SUBGRADE COMPACTED TO 98% S.P.D.D. OR IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
300
NOTES:
1. PRECAST CONCRETE CATCH BASIN TO BE INSTALLED AS PER OPSD 705.010.
2. PRECAST CONCRETE ADJUSTMENT UNITS TO BE INSTALLED AS PER OPSD 704.010.
3. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
CITY OF LONDON STANDARD DRAWING
PARK CATCH BASIN AND PIPE SUBDRAIN
DWG
SPO – 1.5
DATE
2005 11 01
APPROVED BY
PARKS PLANNING AND DESIGN

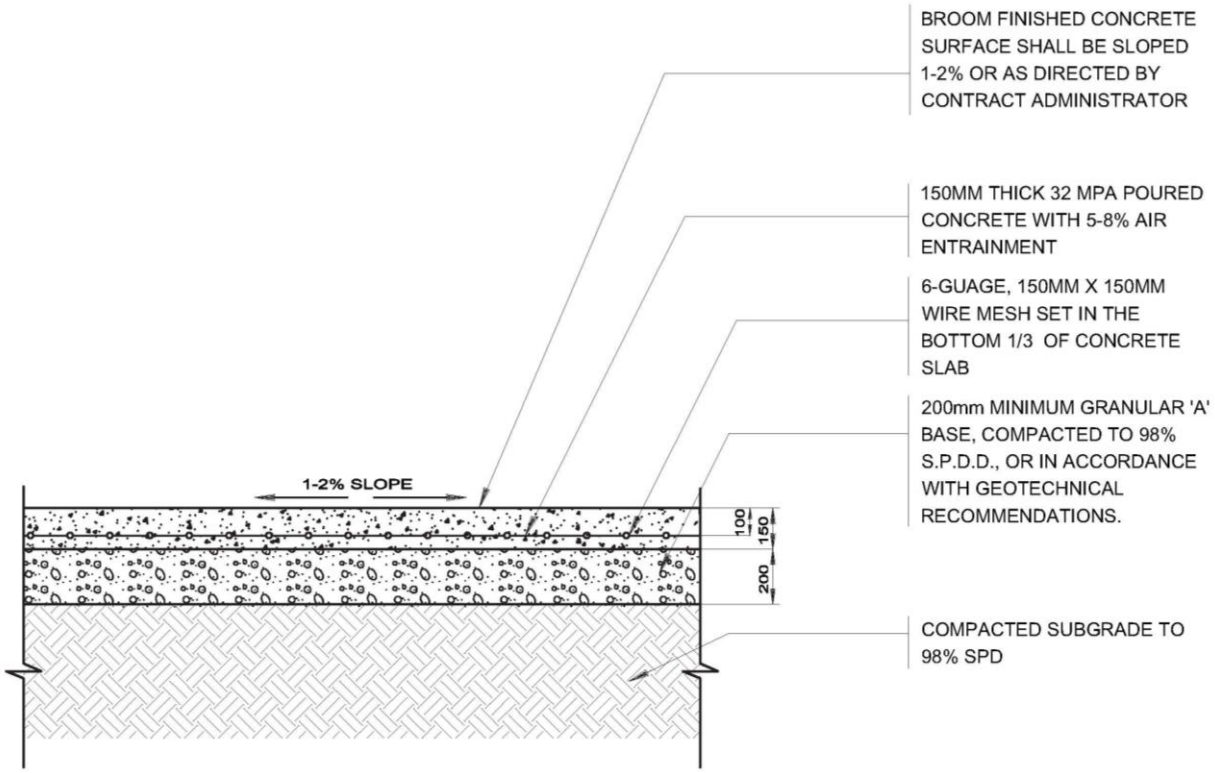

CHAIN-LINK FENCING
OPTIONAL LIGHTS, IF STREET TO STREET CONNECTION
SCREEN PLANTING AS REQUIRED
TREE PLANTING
2.5m
5m
3m PATH TYPICAL
5m PATH & SHOULDERS CLEAR AREA
5m DRAINAGE / GRADING / PLANTING / SCREENING ZONE
15m TYPICAL
CITY OF LONDON STANDARD DRAWING
DWG SPO 1.6
DATE 2009 08 09
APPROVED BY PARKS PLANNING & DESIGN
MINIMUM PARK CORRIDOR - SECTION



CITY OF LONDON STANDARD DRAWING

MINIMUM PARK CORRIDOR PLAN

DWG	DATE	APPROVED BY
SPO 1.7	2009 08 23	PARKS PLANNING & DESIGN



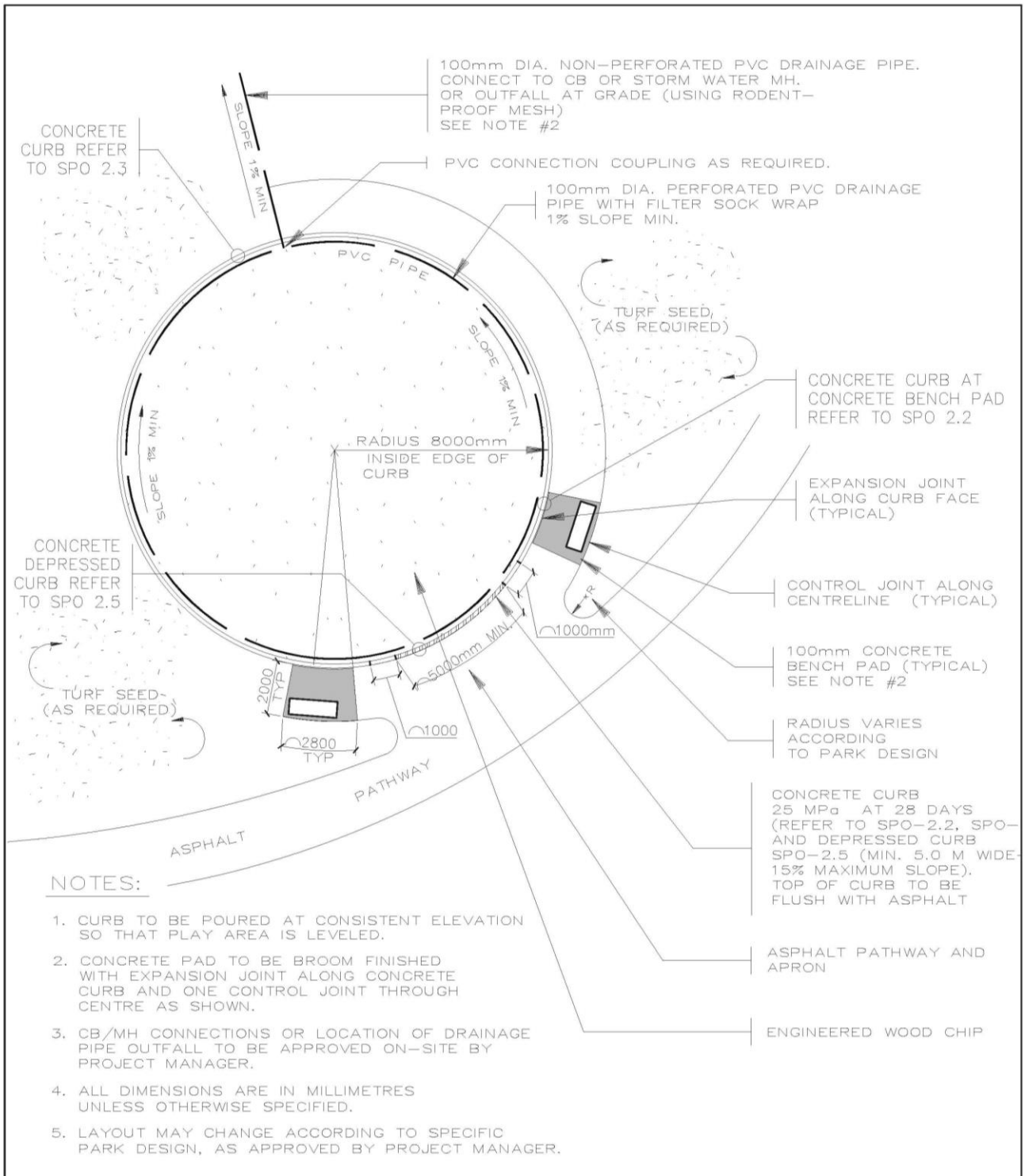
NOTES:

1. CONCRETE TO BE 32MPa, CLASS C-2 AT 28 DAYS WITH 5-8% AIR ENTRAINED
2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.
3. COLOURED CONCRETE SAMPLES TO BE CAST FOR APPROVAL BY CONTRACT ADMINISTRATOR.
4. FIBROUS EXPANSION JOINTS TO BE LOCATED EVERY 6 METRES, WHERE CONCRETE ABUTS STRUCTURES OR AS DIRECTED BY CONTRACT ADMINISTRATOR. ASPHALT FELT BOARD SHALL BE 12 MM AND 175MM TYPICAL.
5. CONTROL JOINTS TO BE LOCATED AT MINIMUM INTERVALS OF 3 METRES OR AS DIRECTED BY CONTRACT ADMINISTRATOR.
6. NATURAL CONCRETE TO BE SPRAYED WITH WHITE PIGMENT CURING COMPOUND.
7. ALL DIMENSIONS IN MILLIMETERS

CITY OF LONDON STANDARD DRAWING

CONCRETE PAVING WITH WIRE MESH

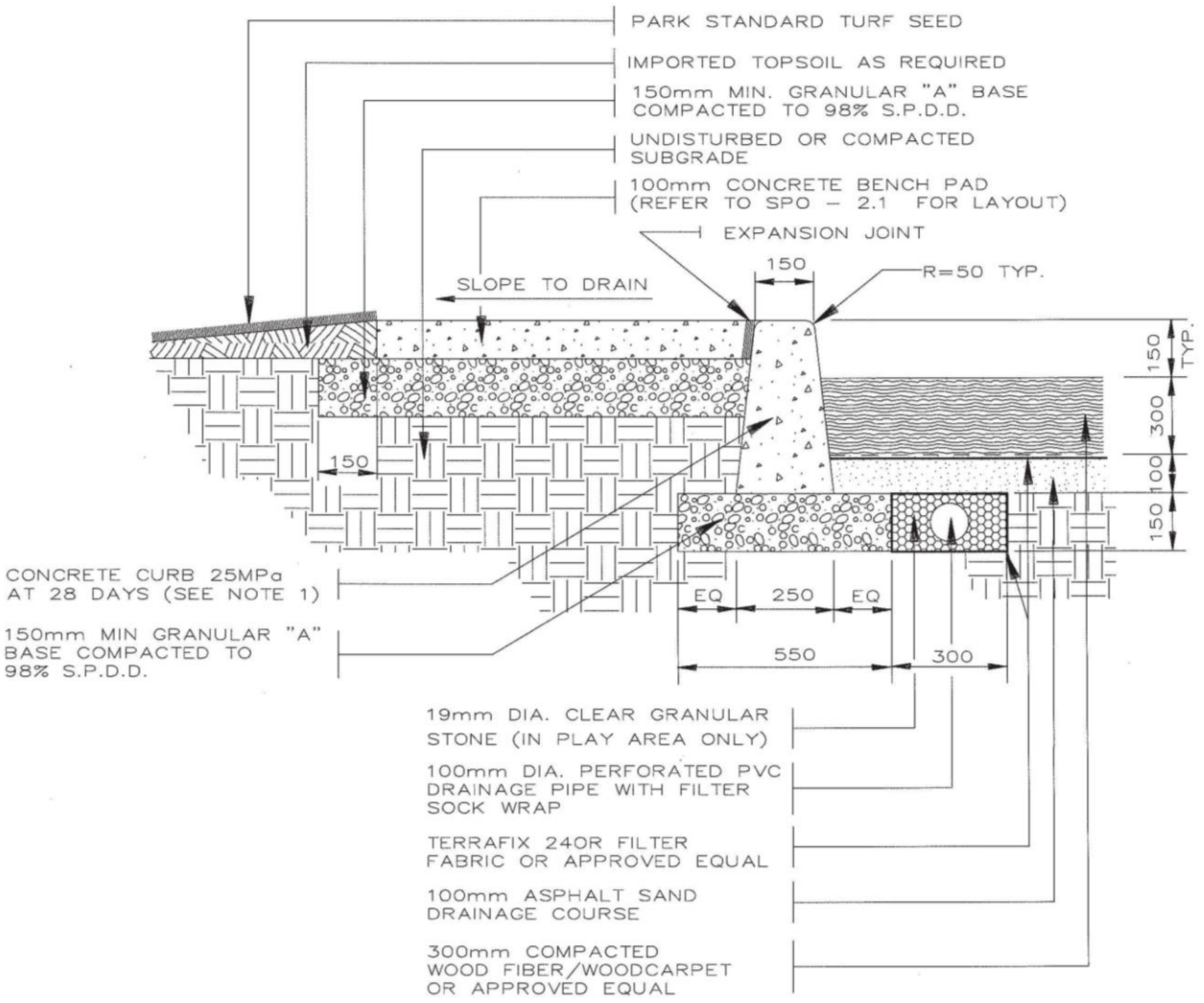
DWG	DATE	APPROVED BY
SPO - 1.8	2014 08 27	PARKS PLANNING & DESIGN JUSTIN LAWRENCE



CITY OF LONDON STANDARD DRAWING

TYPICAL PLAY AREA LAYOUT

DWG	DATE	APPROVED BY
SPO - 2.1	2014 08 26	PARKS PLANNING AND DESIGN JUSTIN LAWRENCE



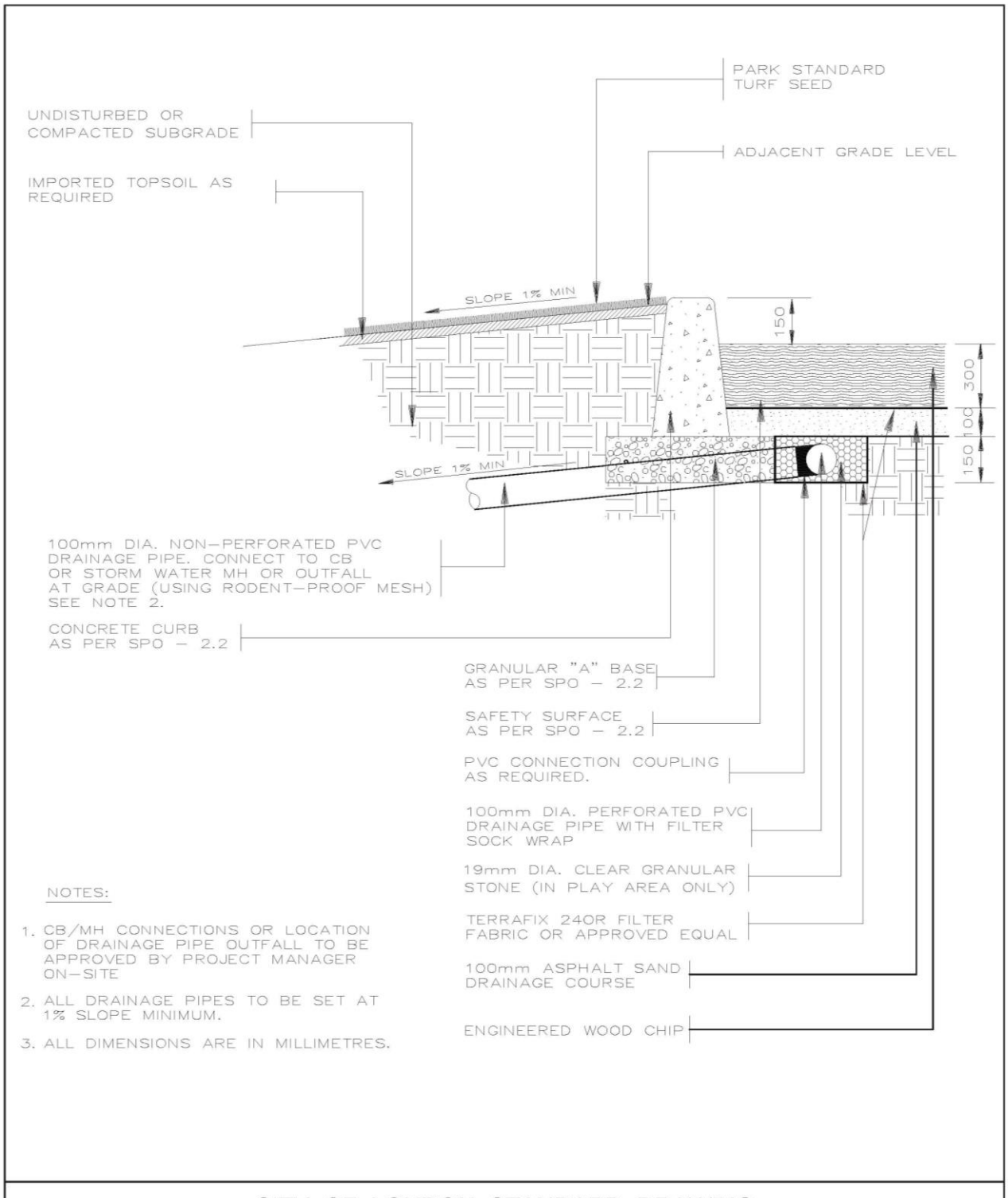
NOTES:

1. CONCRETE CURB TO BE BROOM FINISHED WITH CONTROL JOINTS EVERY 2.0 M (MIN) AND EXPANSION JOINTS EVERY 10.0 M (MIN). TOP OF CURB TO BE FLUSH WITH CONCRETE BENCH PAD
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

CITY OF LONDON STANDARD DRAWING

PLAY AREA SECTION AT CONCRETE BENCH PAD

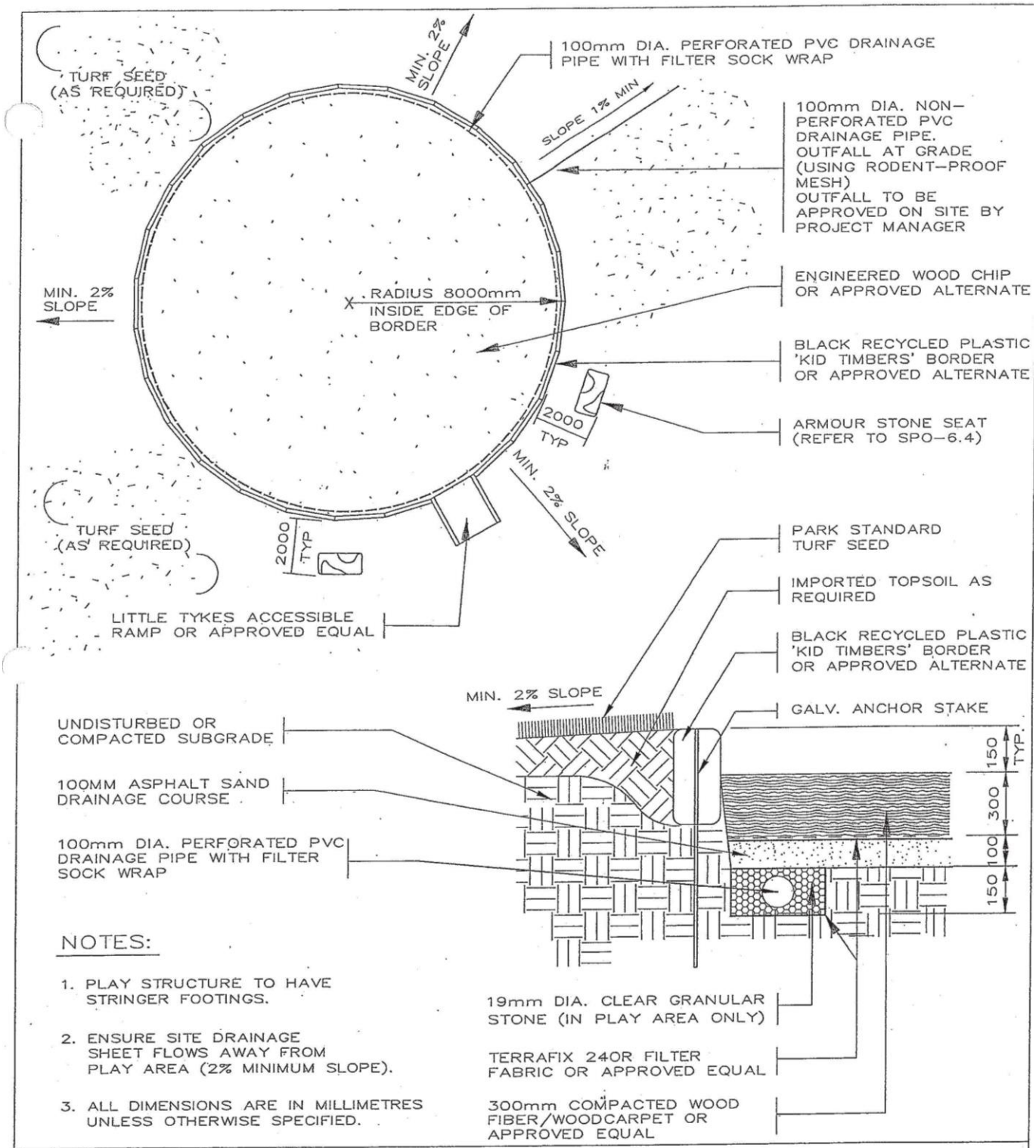
DWG	DATE	APPROVED BY
SPO - 2.2	2011 09 02	PARKS PLANNING AND DESIGN



CITY OF LONDON STANDARD DRAWING

PLAY AREA SECTION AT BACK OF PLAY AREA

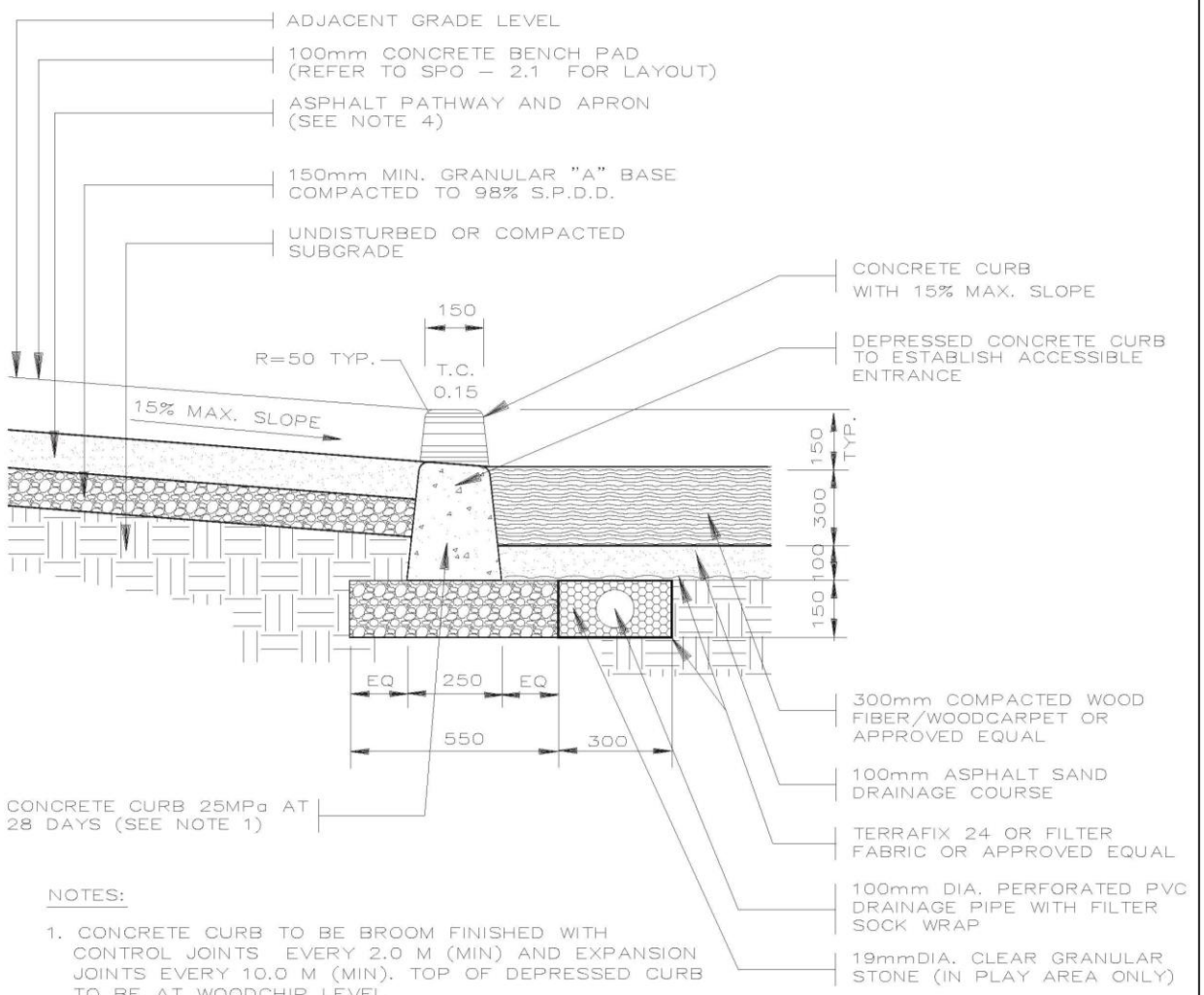
DWG	DATE	APPROVED BY
SPO - 2.3	2014 08 26	PARKS PLANNING AND DESIGN JUSTIN LAWRENCE



CITY OF LONDON STANDARD DRAWING

TEMPORARY PLAY AREA LAYOUT

DWG	DATE	APPROVED BY
SPO – 2.4	2006 11 06	PARKS PLANNING & DESIGN



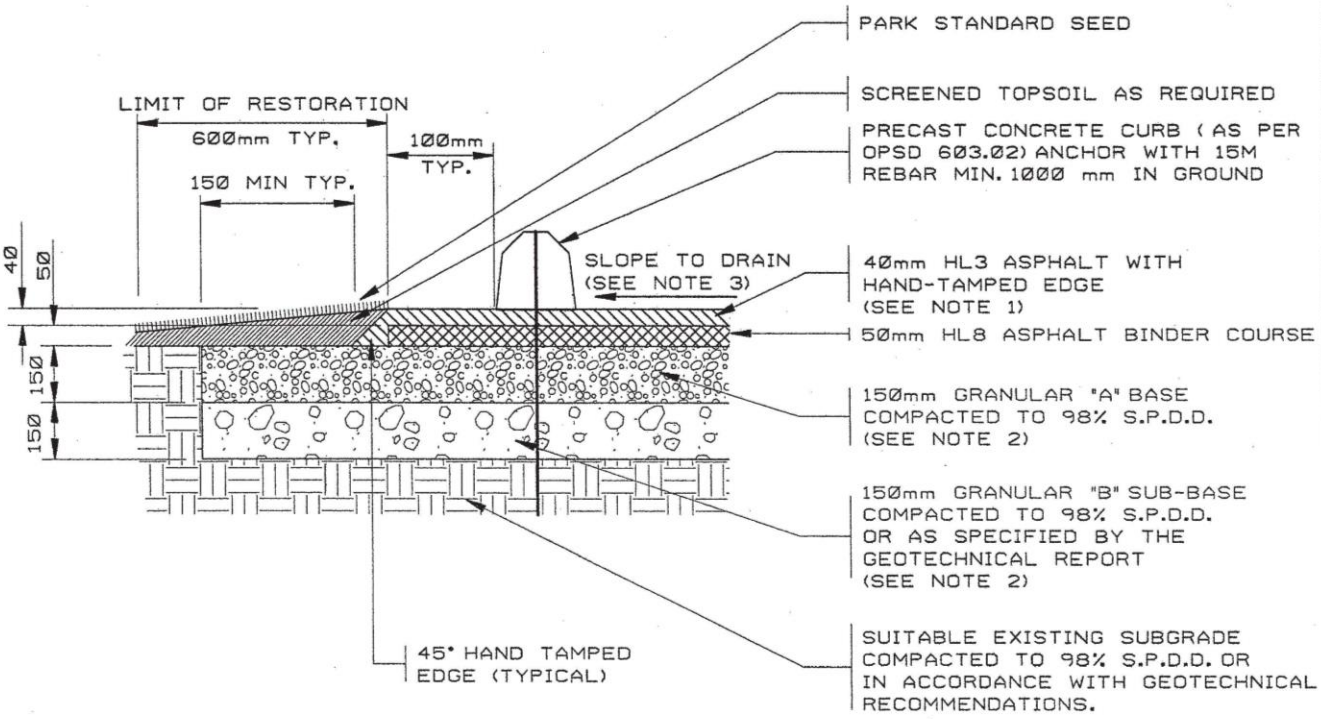
NOTES:

1. CONCRETE CURB TO BE BROOM FINISHED WITH CONTROL JOINTS EVERY 2.0 M (MIN) AND EXPANSION JOINTS EVERY 10.0 M (MIN). TOP OF DEPRESSED CURB TO BE AT WOODCHIP LEVEL
2. CB/MH CONNECTIONS OR LOCATION OF DRAINAGE PIPE OUTFALL TO BE APPROVED BY PROJECT MANAGER ON-SITE
3. ALL DRAINAGE PIPES TO BE SET AT 1% SLOPE MINIMUM.
4. ASPHALT PATHWAY SLOPE VARIES ACCORDING TO PARK DESIGN (15% MAXIMUM)
5. ALL DIMENSIONS ARE IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

PLAY AREA SECTION AT DEPRESSED CURB

DWG	DATE	APPROVED BY
SPO - 2.5	2014 08 26	PARKS PLANNING AND DESIGN JUSTIN LAWRENCE



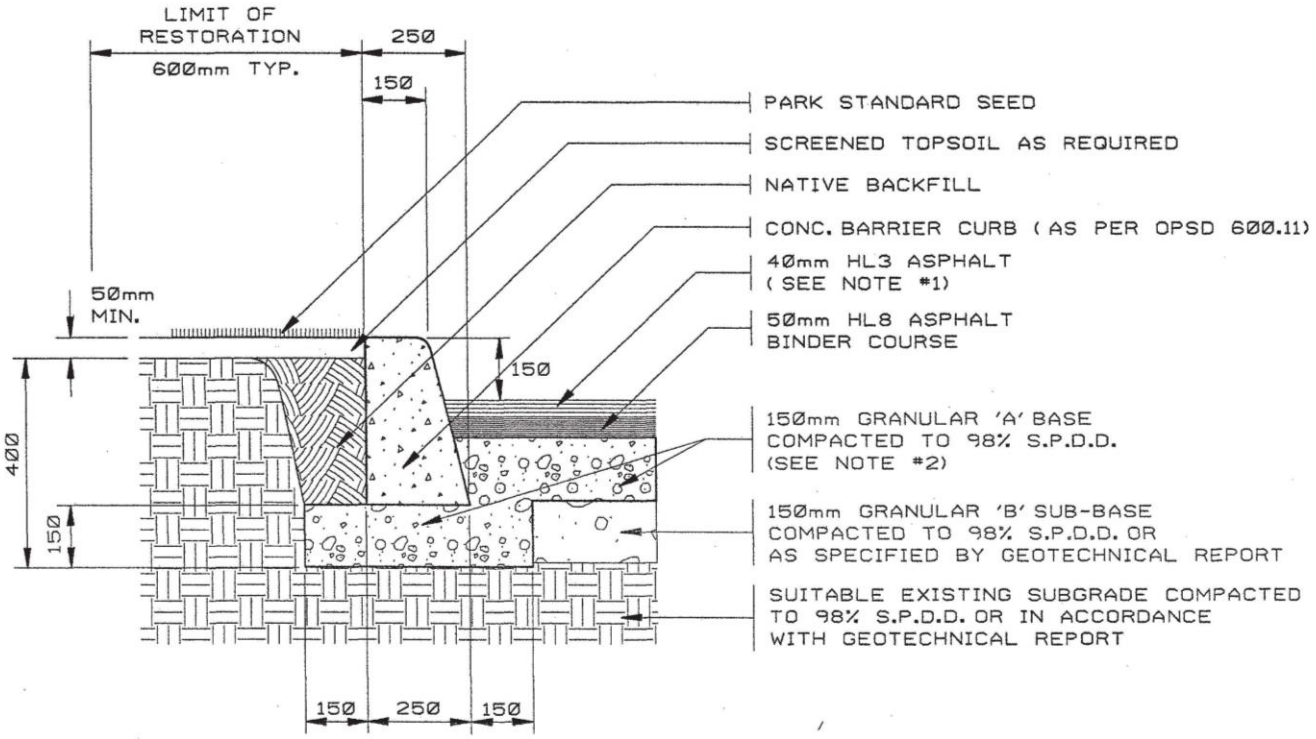
NOTES:

1. ASPHALT SURFACE TO BE IN ACCORDANCE WITH O.P.S.S. 310. ASPHALT EDGE TO BE 45° HAND TAMPED SMOOTH EDGE WITHOUT LATERAL DEVIATIONS.
2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.
3. FINISHED SLOPE ON PARKING AREAS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS OR AS SPECIFIED BY THE PROJECT MANAGER.
4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

ASPHALT PARKING AREA WITH PRECAST CURB

DWG SPO – 3.1	DATE 2002 12 18	APPROVED BY PARKS PLANNING & DESIGN



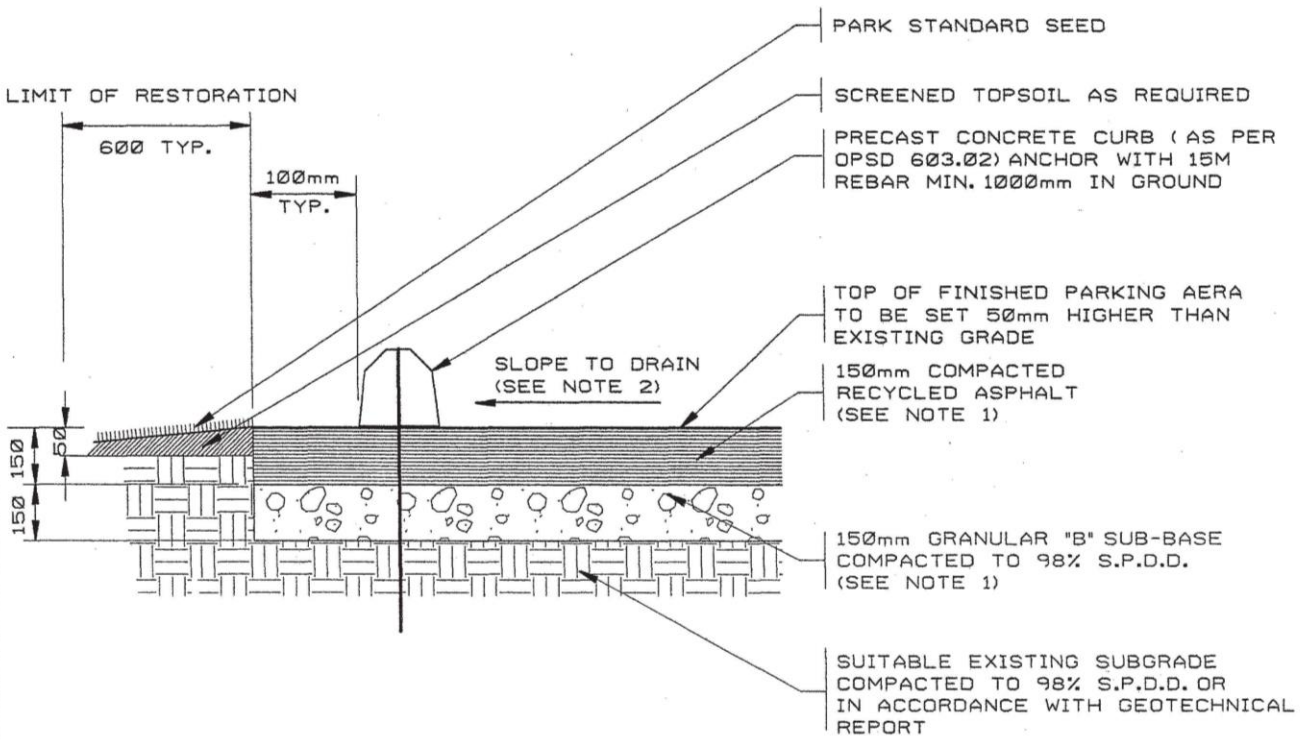
NOTES:

1. ASPHALT SURFACE TO BE IN ACCORDANCE WITH O.P.S.S. 310.
2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.
3. FINISHED SLOPE ON PARKING AREAS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWING OR AS SPECIFIED BY PROJECT MANAGER
4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

ASPHALT PARKING AREA WITH BARRIER CURB

DWG	DATE	APPROVED BY
SPO – 3.2	2002 12 18	PARKS PLANNING & DESIGN



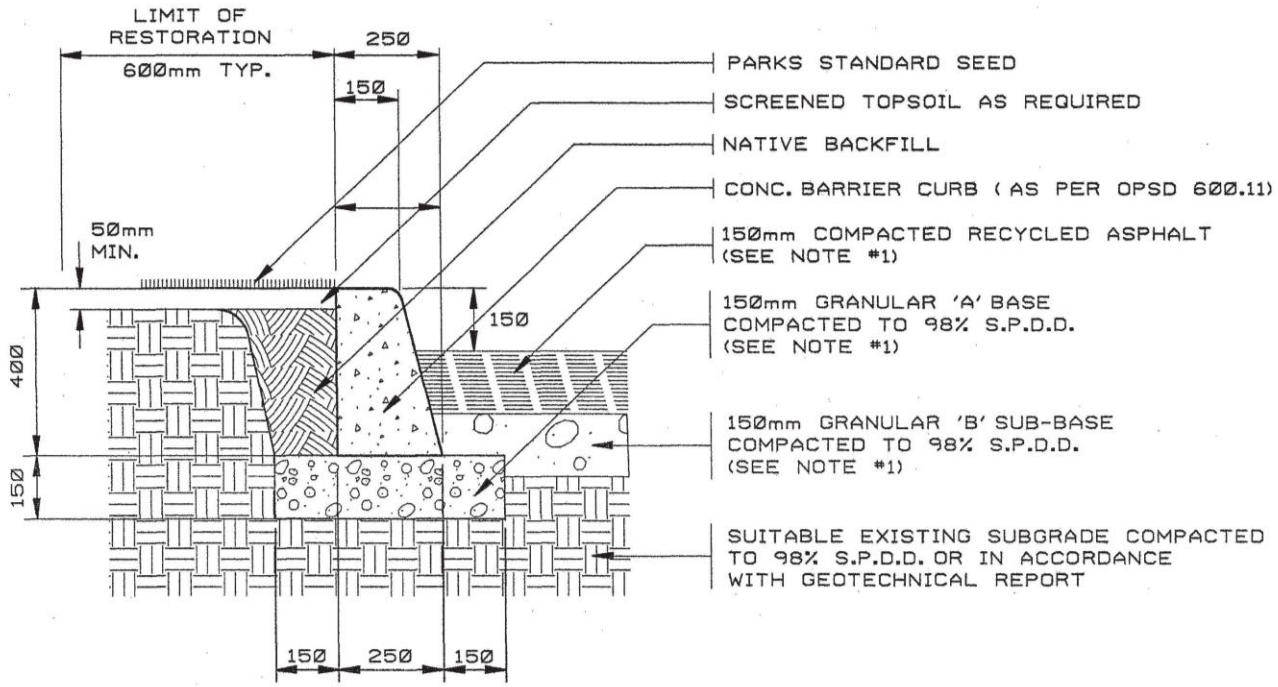
NOTES:

1. RECYCLED ASPHALT MATERIAL AND GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010
2. FINISHED SLOPE ON PARKING AREAS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS OR AS SPECIFIED BY THE PROJECT MANAGER.
3. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

GRANULAR PARKING AREA WITH PRECAST CURB

DWG SPO – 3.3	DATE 2002 12 18	APPROVED BY PARKS PLANNING & DESIGN



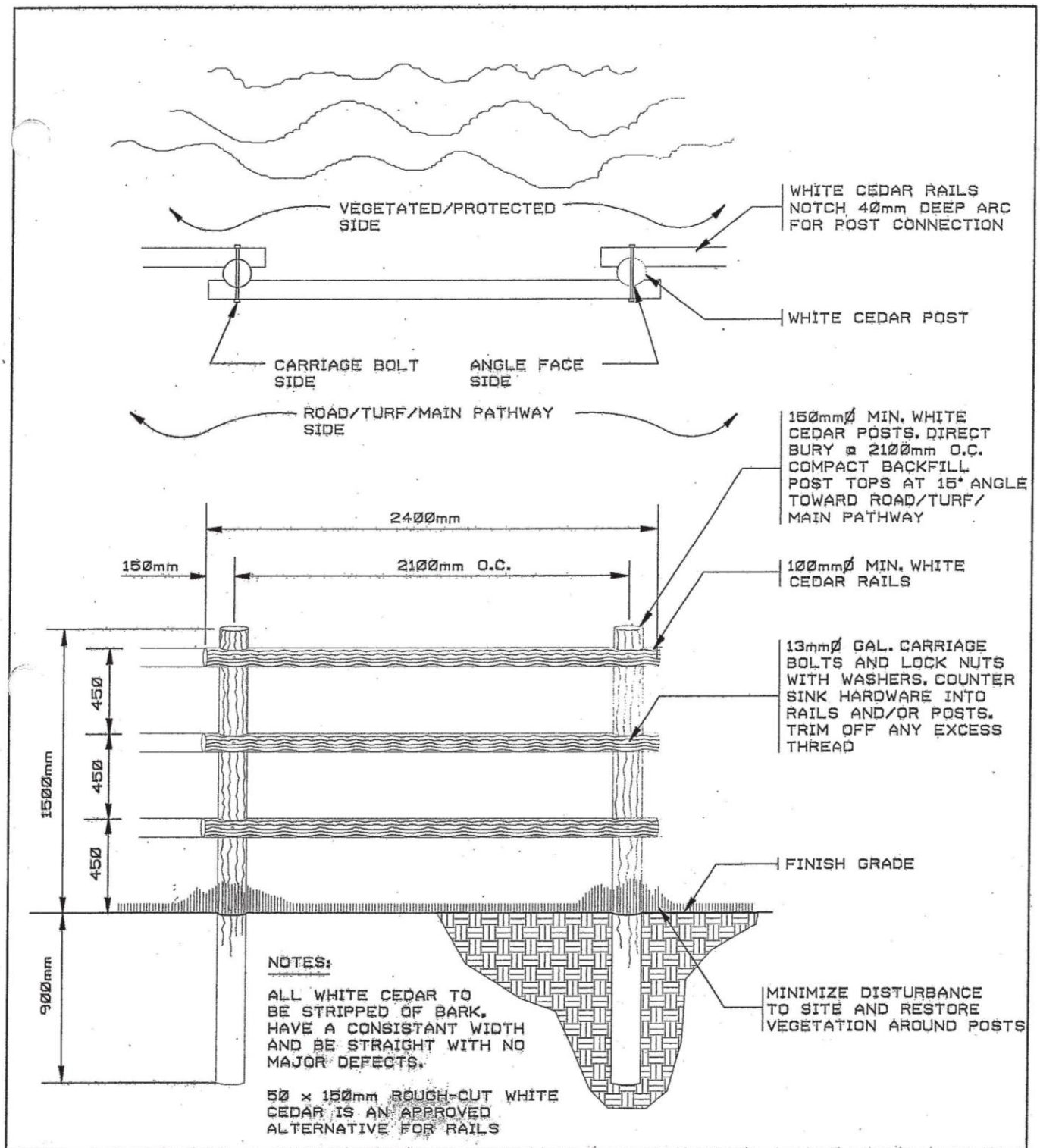
NOTES:

1. RECYCLED ASPHALT MATERIAL AND GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.
2. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

GRANULAR PARKING AREA WITH BARRIER CURB

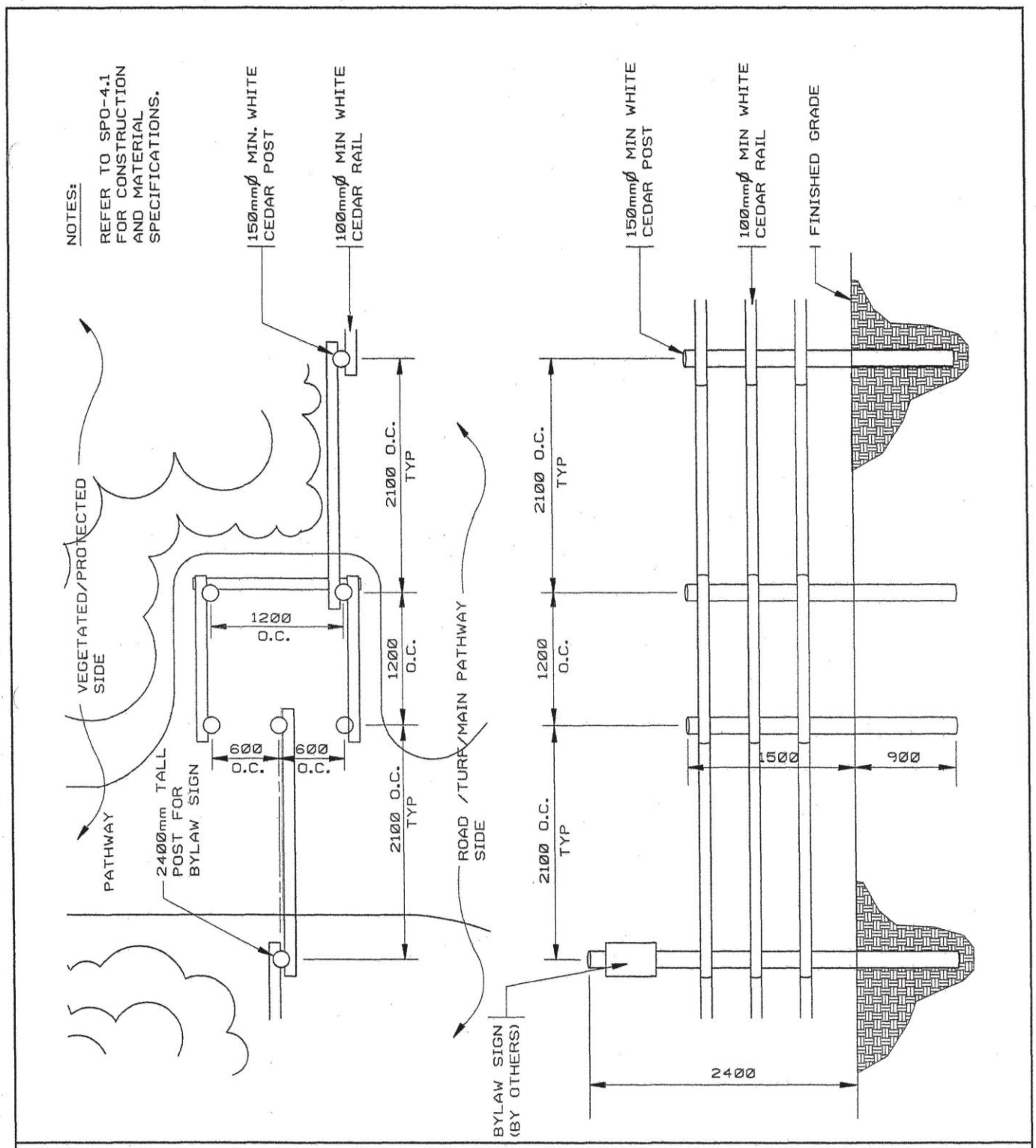
DWG	DATE	APPROVED BY
SPO – 3.4	2002 12 18	PARKS PLANNING & DESIGN



CITY OF LONDON STANDARD DRAWING

CEDAR RAIL FENCE

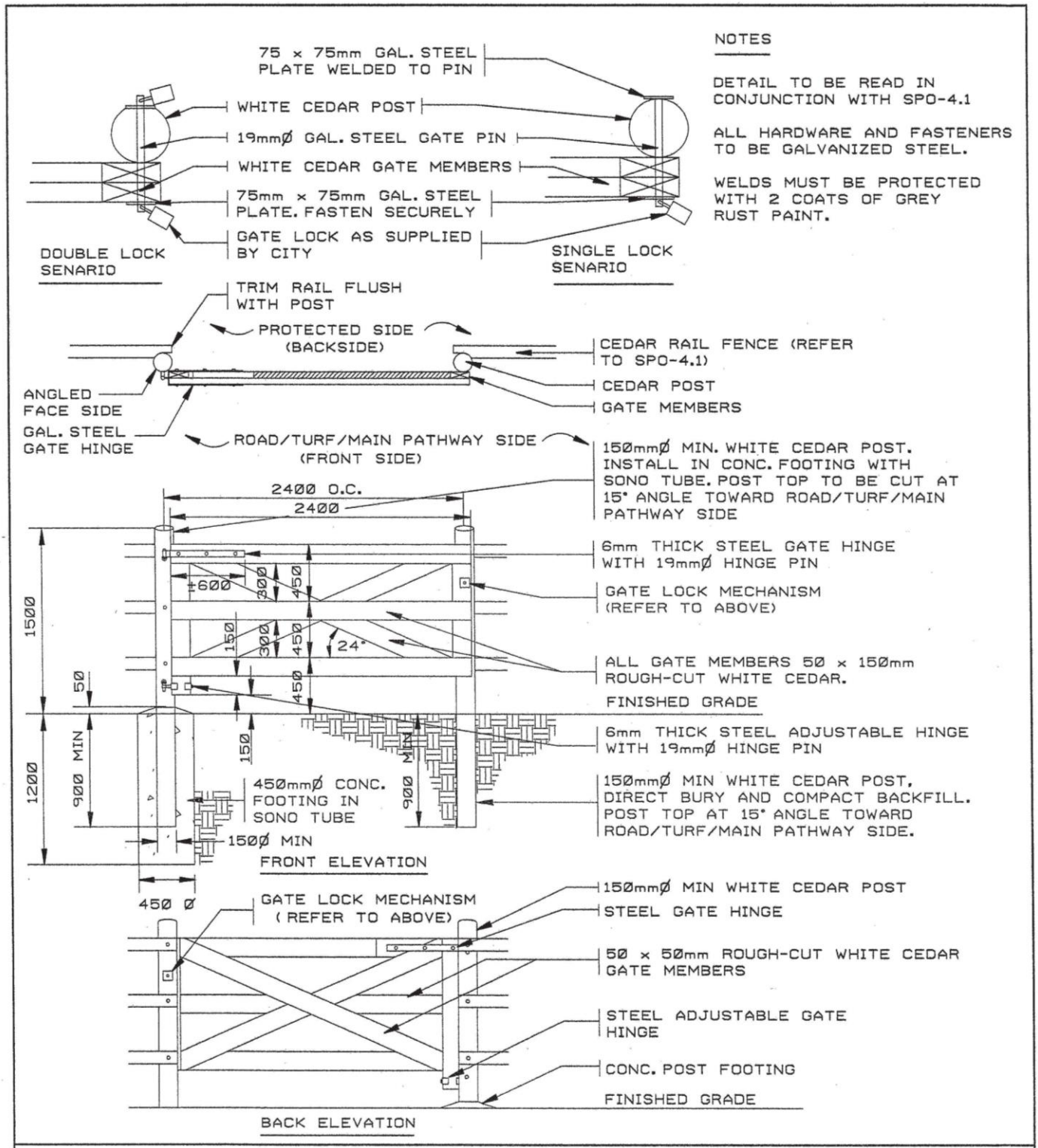
DWG	DATE	APPROVED BY
SPO – 4.1	2005 11 01	PARKS PLANNING & DESIGN



CITY OF LONDON STANDARD DRAWING

CEDAR RAIL ENTRANCE CORRAL

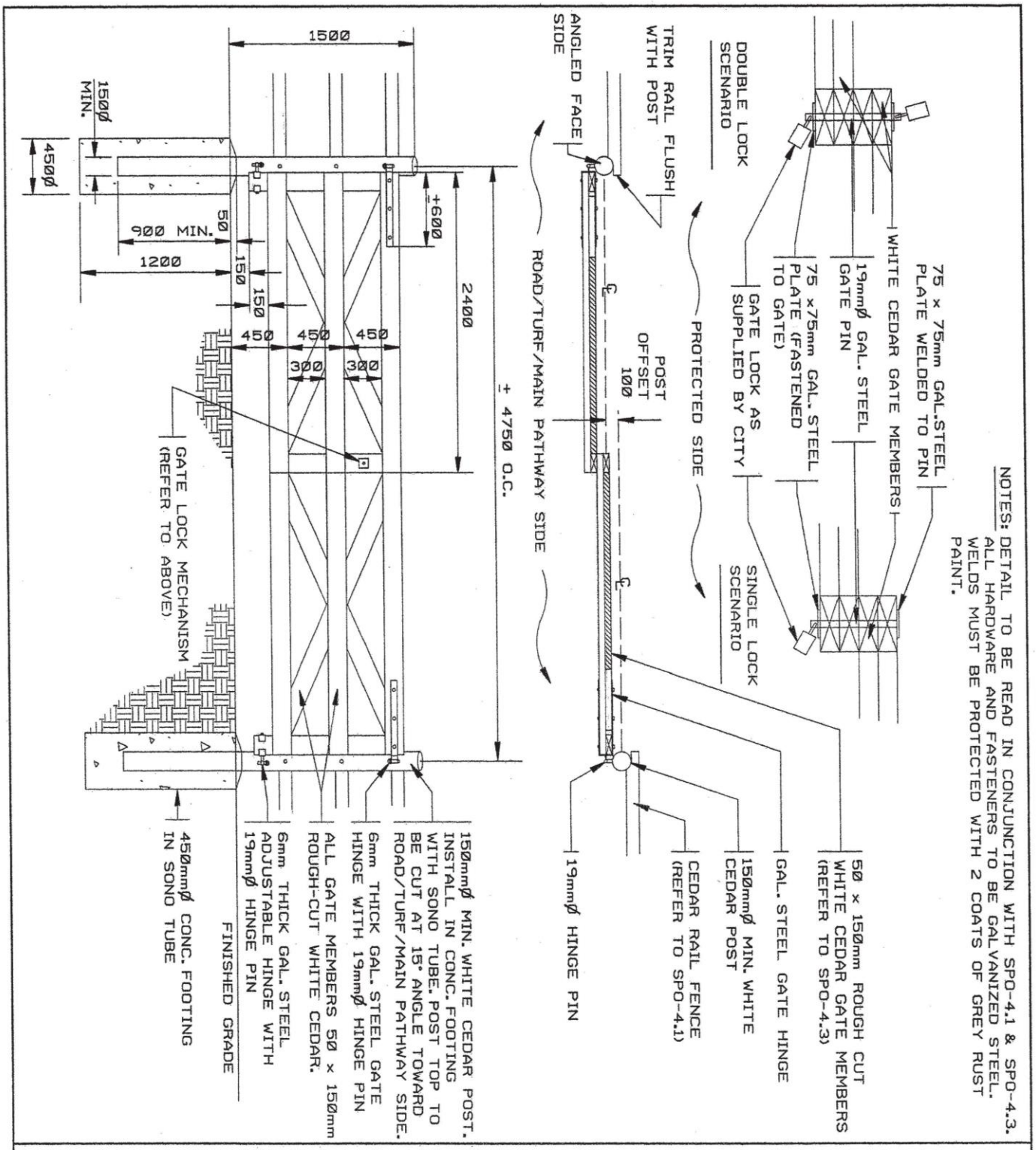
DWG	DATE	APPROVED BY
SPO – 4.2	2002 11 21	PARKS PLANNING & DESIGN



CITY OF LONDON STANDARD DRAWING

CEDAR RAIL SINGLE ACCESS GATE

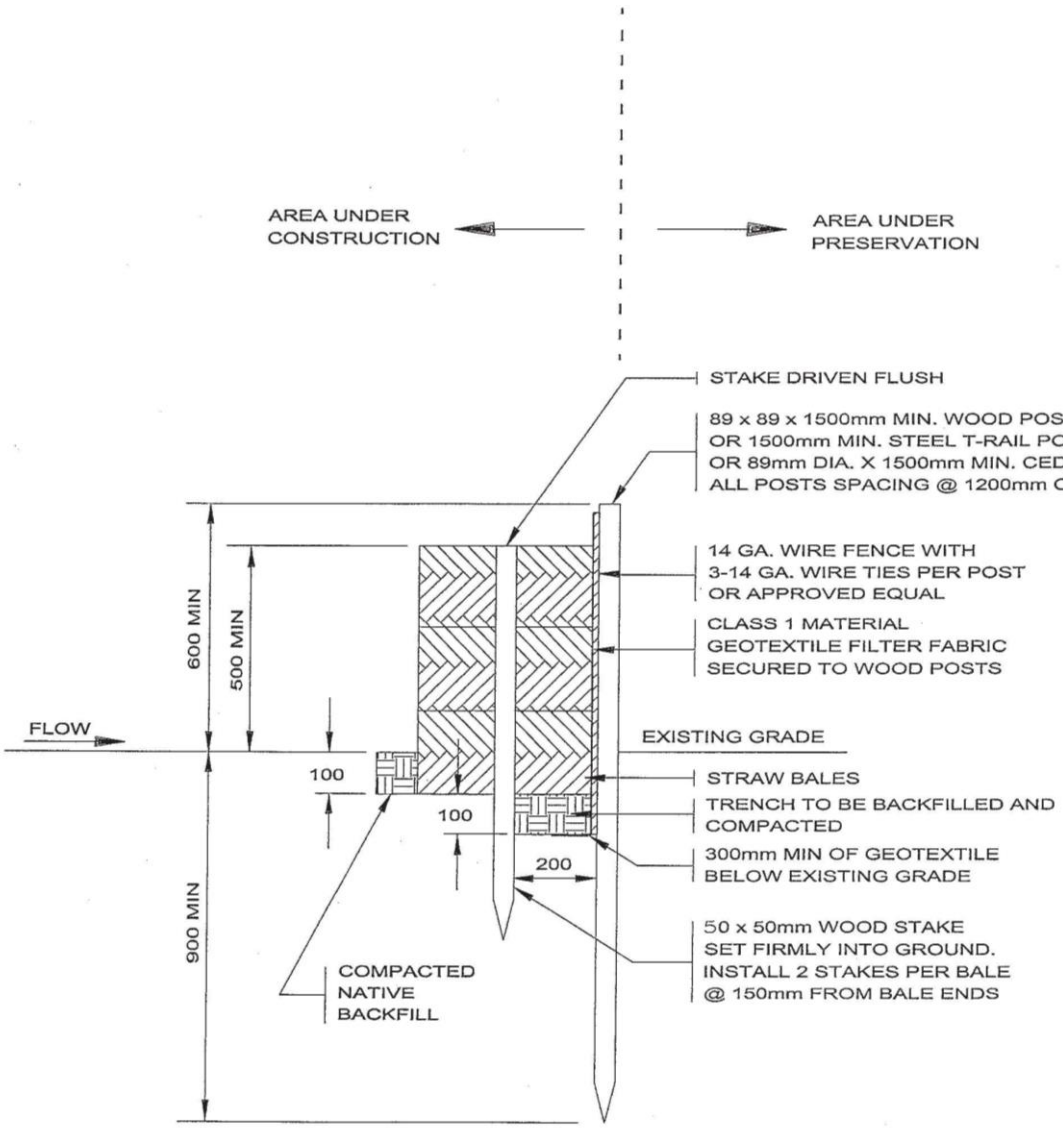
DWG	DATE	APPROVED BY
SPO – 4.3	2002 12 18	PARKS PLANNING & DESIGN



CITY OF LONDON STANDARD DRAWING

CEDAR RAIL DOUBLE ACCESS GATE

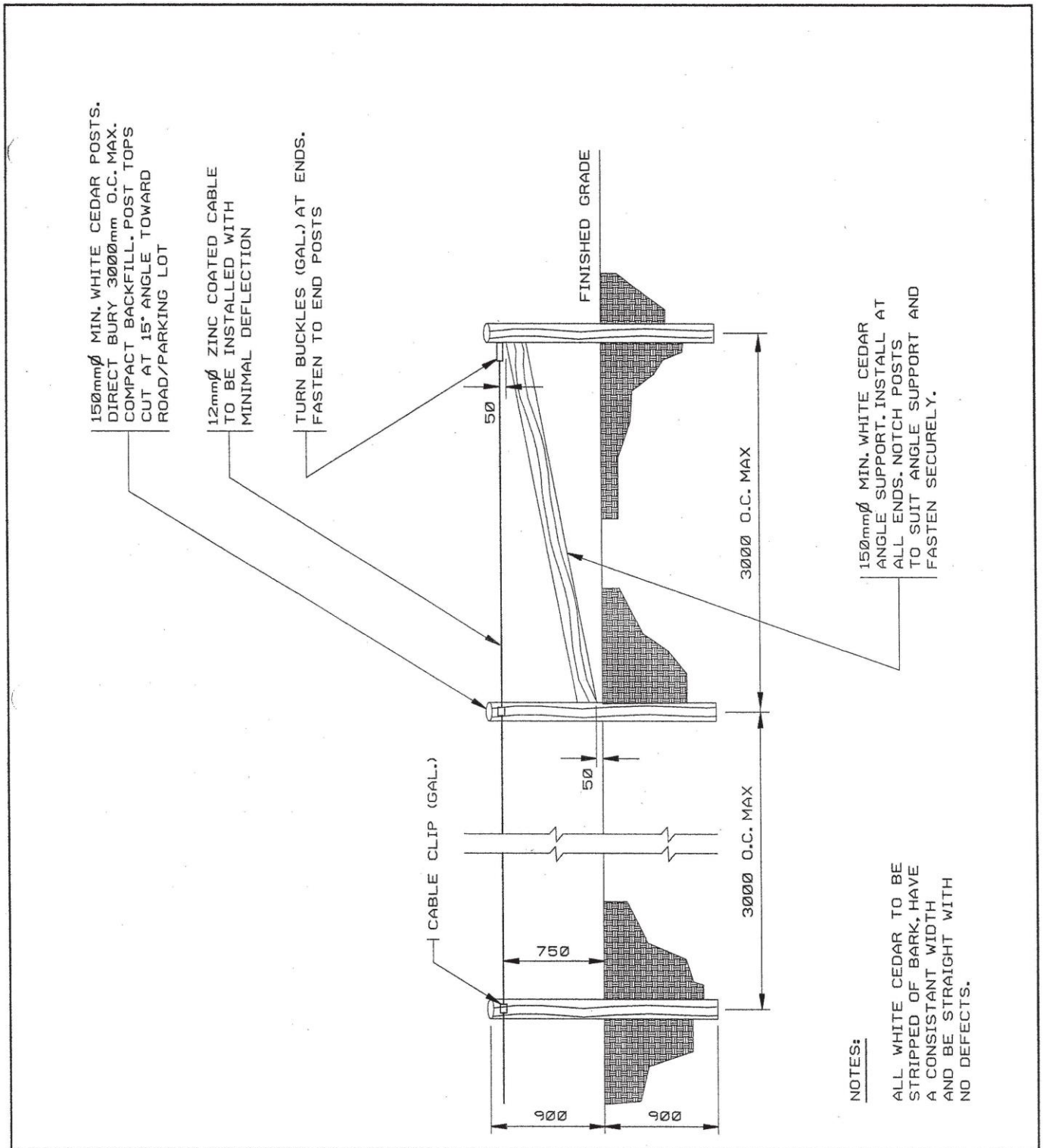
DWG	DATE	APPROVED BY
SPO – 4.4	2002 11 26	PARKS PLANNING & DESIGN



CITY OF LONDON STANDARD DRAWING

ROBUST SILTATION BARRIER

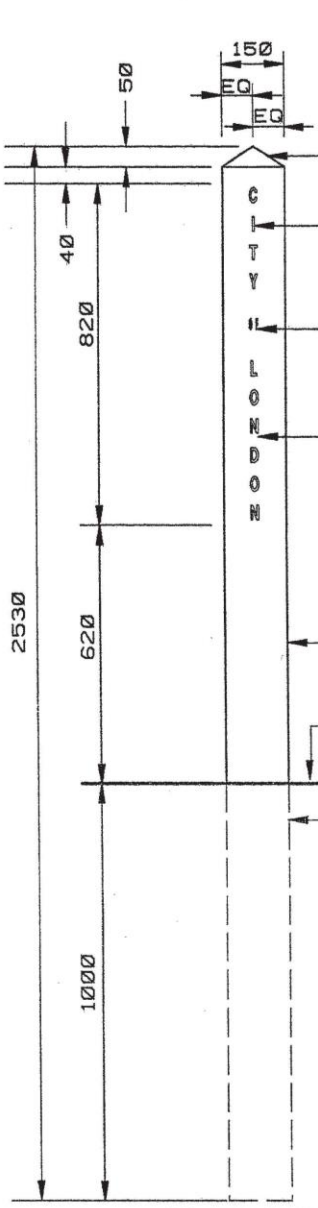
DWG	DATE	APPROVED BY
SPO - 4.5	2007 10 16	PARKS PLANNING AND DESIGN



CITY OF LONDON STANDARD DRAWING

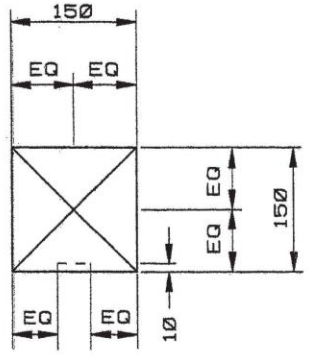
POST AND CABLE BARRIER

DWG	DATE	APPROVED BY
SPO – 4.6	2002 11 26	PARKS PLANNING & DESIGN



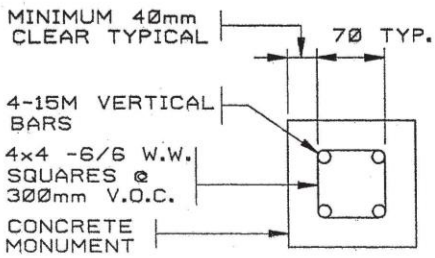
ELEVATION

N.T.S.



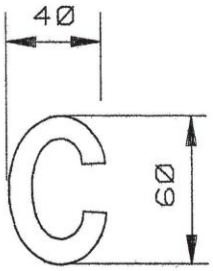
PLAN VIEW

N.T.S.

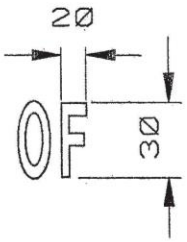


REINFORCING DETAIL

N.T.S.



RECESSED TO 10mm DEPTH



RECESSED TO 5mm DEPTH

STANDARD LETTER SIZING

N.T.S.

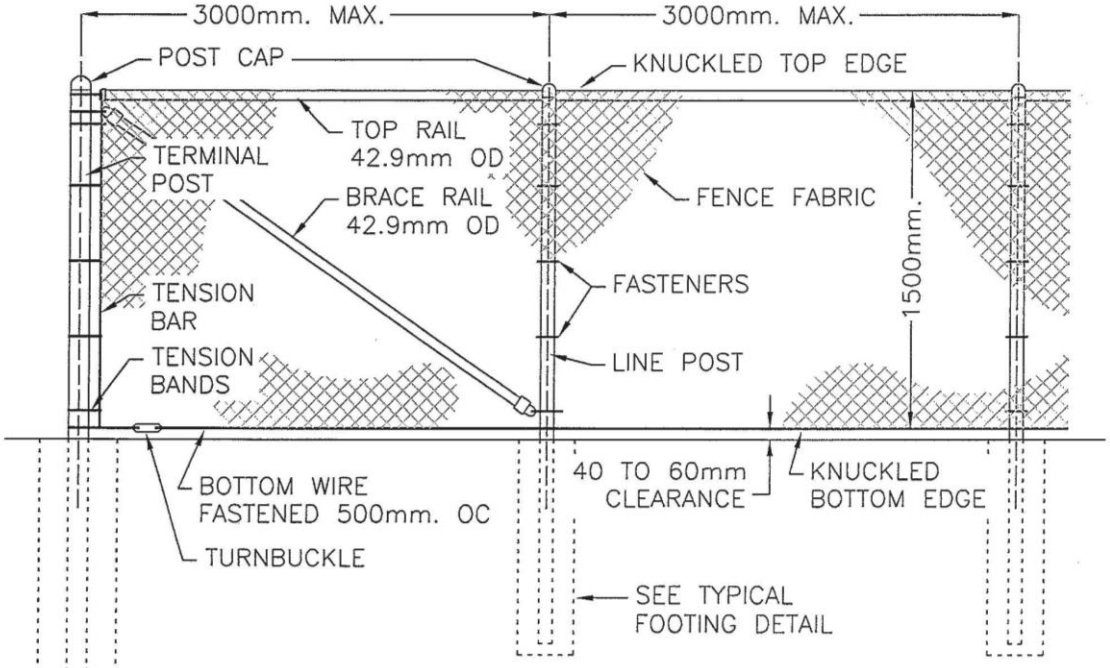
NOTES:

1. ALL EXPOSED CONCRETE TO HAVE SMOOTH FINISH
2. REINFORCING STEEL TO MEET INDUSTRY STANDARDS FOR TYPE, QUALITY AND PLACEMENT.
3. MINIMIZE DISTURBANCE TO SITE AND RESTORE VEGETATION AROUND MONUMENT.
4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

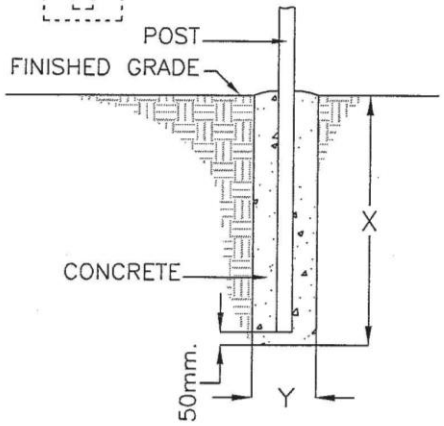
PROPERTY BOUNDARY MONUMENT DETAIL

DWG SPO – 4.7	DATE 2002 11 14	APPROVED BY PARKS PLANNING & DESIGN



CHAIN-LINK FENCE DETAIL

N.T.S.



TYPICAL FOOTING DETAIL

N.T.S.

POST AND FOOTING DETAILS TABLE (IN mm.)				
POST TYPE	POST OD	POST LENGTH	FOOTING DEPTH "X"	FOOTING DIA. "Y"
LINE POST	60.3	2400	915	250
TERMINAL POST	88.9	2900	1370	350

NOTES:

1. FENCE POSTS, RAILS AND HARDWARE SHALL BE BLACK POWDER COATED. FASTENERS SHALL BE HOT DIP GALVANIZED.
2. FENCE FABRIC SHALL BE BLACK VINYL COATED STEEL FABRIC 3.76mm. WITH A UNIFORM 38mm. OR 50mm. MAX. OPENING DIAMOND PATTERN.
3. FENCE FABRIC SHALL BE INSTALLED ON "CITY" SIDE OF FENCE.
4. POST CAPS SHALL BE WATER PROOF AND MECHANICALLY SECURED TO POSTS.
5. STRAINING POSTS SHALL BE INSTALLED AT INTERVALS NOT EXCEEDING 150M. ADDITIONAL STRAINING POSTS SHALL BE INSTALLED WHERE CHANGES IN VERTICAL GRADE EXCEED 30 DEGREES.
6. CONCRETE SHALL BE 20MPa @ 28 DAYS IN ACCORDANCE WITH O.P.S.S. 904.
7. FENCE SHALL BE INSTALLED ON PROPERTY LINES, UNLESS OTHERWISE DIRECTED BY CONTRACT ADMINISTRATOR.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

CITY OF LONDON STANDARD DRAWING

PARK CHAIN-LINK FENCE

DWG	DATE	APPROVED BY
SPO - 4.8	2007 10 16	PARKS PLANNING AND DESIGN

DESIGN LOADS: Dead Load = 0.6 kPa (12 psf); Live Load = 2.9 kPa (60 psf)

EQUIPMENT AND OPERATIONS

1. These boardwalks are typically constructed in Environmentally Sensitive Areas; therefore restrictions may apply to the use of equipment. Consult with project coordinator in the Parks Planning and DSN section to determine permitted construction methods prior accessing individual work sites.
2. Existing trees and vegetation adjacent to the new boardwalks are considered to be 'significant' in terms of their size and/or species. The contractor shall ensure that these trees are not damaged by operations. A plan drawing and listing of these trees may be available from the City of London – Parks Planning and Design Section.
3. All excavated materials and excess concrete and materials shall be hauled away off site by the contractor. The contractor shall take extraordinary care to ensure that no concrete spillage occurs in the work area. The contractor shall clean up and restore the site to its original condition once the work is complete.

FOUNDATIONS

1. Foundations are designed based on a minimum allowable soil bearing capacity of 2000 psf; If existing bearing capacities are lower than 2000 psf the contractor shall inform the project coordinator in order to retain a soils consultant.
2. If a soils consultant is retained by the City of London, the base of excavations must be reviewed by the soils consultant prior to placing of concrete. Contractor shall inform the soils consultant at least 24 hours in advance of any concrete placement.
3. Formwork shall be used for the concrete piers and walls. Concrete placement for each pier shall be done in one pour.
4. Backfill and compact walls below grade in such a way that the soil level on one side is never more than 500mm above the soil on the other side.
5. Backfill wing wall structure with approved free draining native or Granular B backfill compacted to 98% SPDD.

CONCRETE

1. All concrete work has been designed in accordance with CAN3–A23.3–04.
2. Concrete requirements are as follows:

Min. Strength @ 28 Days	Max. Water Cement Ratio	Air Content
32 MPa	0.4	5% –8 %

Concrete shall have a minimum cement content of 350 kg/cubic metre.
3. Reinforcing steel shall have a minimum 400 MPa yield strength and shall be detailed and placed in accordance with The Reinforcing Steel Institute of Canada "Manual of Standard Practice". All laps shall be class B laps unless noted otherwise.
4. All concrete materials and methods of concrete construction shall be in accordance with CAN/CSA–A23.1. Testing of concrete shall comply with the requirements of CAN/CSA–A23.2.
5. Concrete protection to reinforcement shall be 75 mm for concrete cast against earth and 50mm in all other locations.
6. Provide sufficient support bars on high chairs, slab bolsters, and other accessories to maintain the reinforcing steel in the required positions with proper clearances before and during placing of concrete. Tie bars at all intersections. 'Floating' of reinforcement is strictly prohibited.
7. The contractor will notify the project manager and materials consultant at least 24 hours in advance of all concrete pours in order to arrange for site review of reinforcement.
8. Concrete finishes shall be a Class A finish as defined in Ontario Provincial Standard Specification 904.

WOOD FRAMING

1. All wood decking, rail and handrail components shall be white cedar Grade No.2 or better, unless otherwise noted. Railing components shall be dressed (planed) and decking shall be rough sawn.
2. All wood not exposed to view (i.e. joists, beams, columns and bracing) shall be No. 2 grade S–P–F or better and pressure treated (P.T.).
3. All wood and wood components have been designed in accordance with CSA–086.
4. All construction to comply with applicable sections of the 2006 Ontario Building Code.
5. All screw fasteners shall be corrosion resistant (coated) and minimum No. 10 size. Minimum two fasteners per connection or as required to resist anticipated loading.

STEEL CONNECTORS

1. All steel connectors shall be 'Simpson' brand. Substitutions shall only be considered for a credit to the contract.
2. All connectors shall be installed in strict conformance with manufacturers instructions, including, but not limited to, the number and type of fasteners required to achieve the maximum capacity of the connector.
3. All fasteners shall be hot–dipped galvanized or stainless steel. Hot Dip Galvanizing (HDG) shall be in accordance with CAN/CSA–G164 (minimum zinc coating 600 gsm).
4.

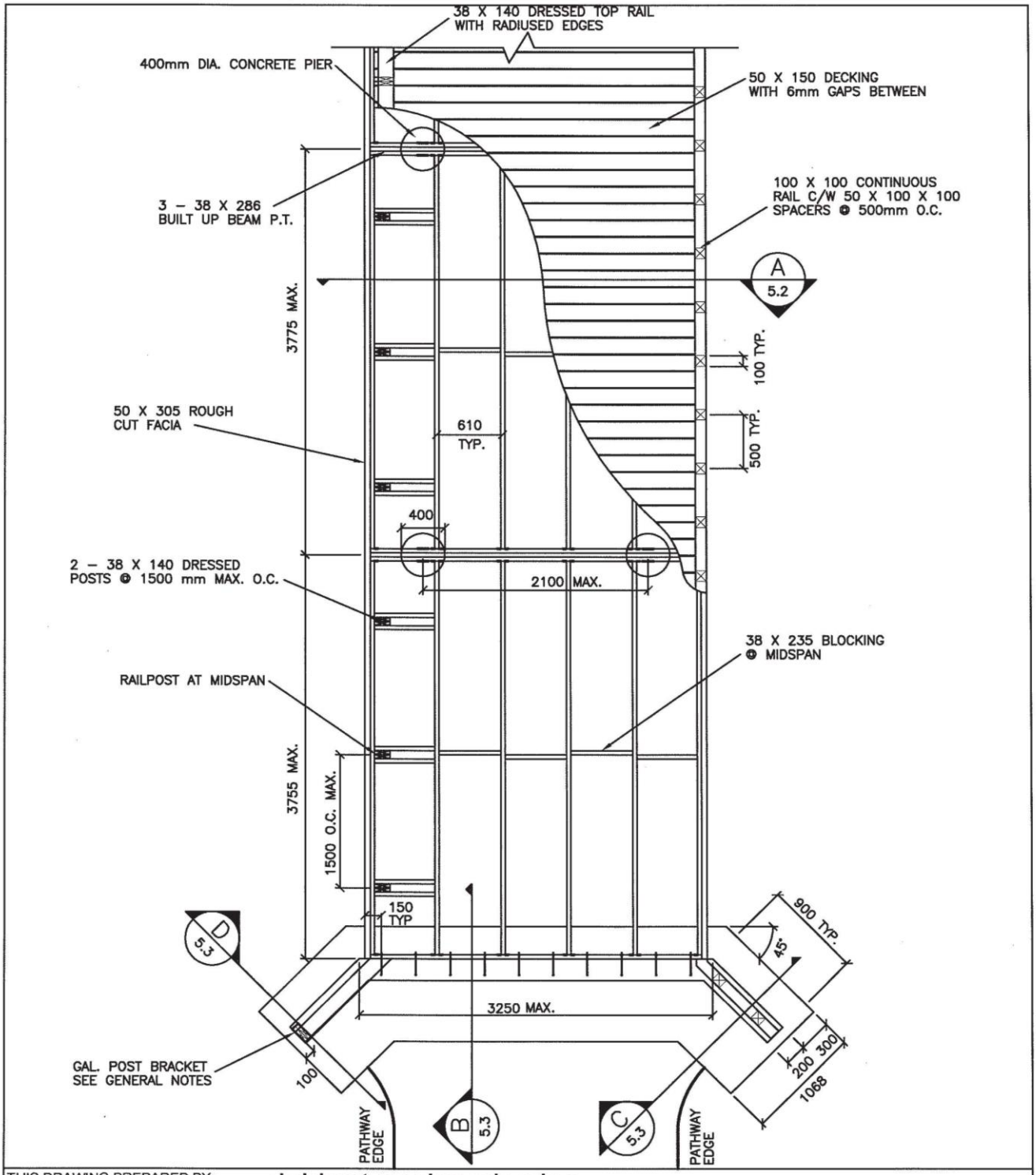
Members Connected	Simpson Fastener	Remarks
3–38 x 286 BU Beam to 140 x 140 column	PC 64	Install additional 5/8" dia. through bolts in post & BU beam
3–38 x 286 BU Beam to concrete pier	CB 4.5	Install 40MPA dry packed grout under steel plate
38 x 235 joist to BU beam	HU 28	----
2– 38 x 140 Guardrail post to conc. headwall	CBSQ46–SDS2	At Each post – four per headwall
Joist hold down clips	H2.5	----

THIS DRAWING PREPARED BY: debbert engineering inc. TELEPHONE: (519) 668 2022 JUNE 2007

CITY OF LONDON STANDARD DRAWING

BOARDWALK - GENERAL NOTES

DWG	DATE	APPROVED BY
SPO – 5.1	2011–09–02	PARKS PLANNING & DESIGN

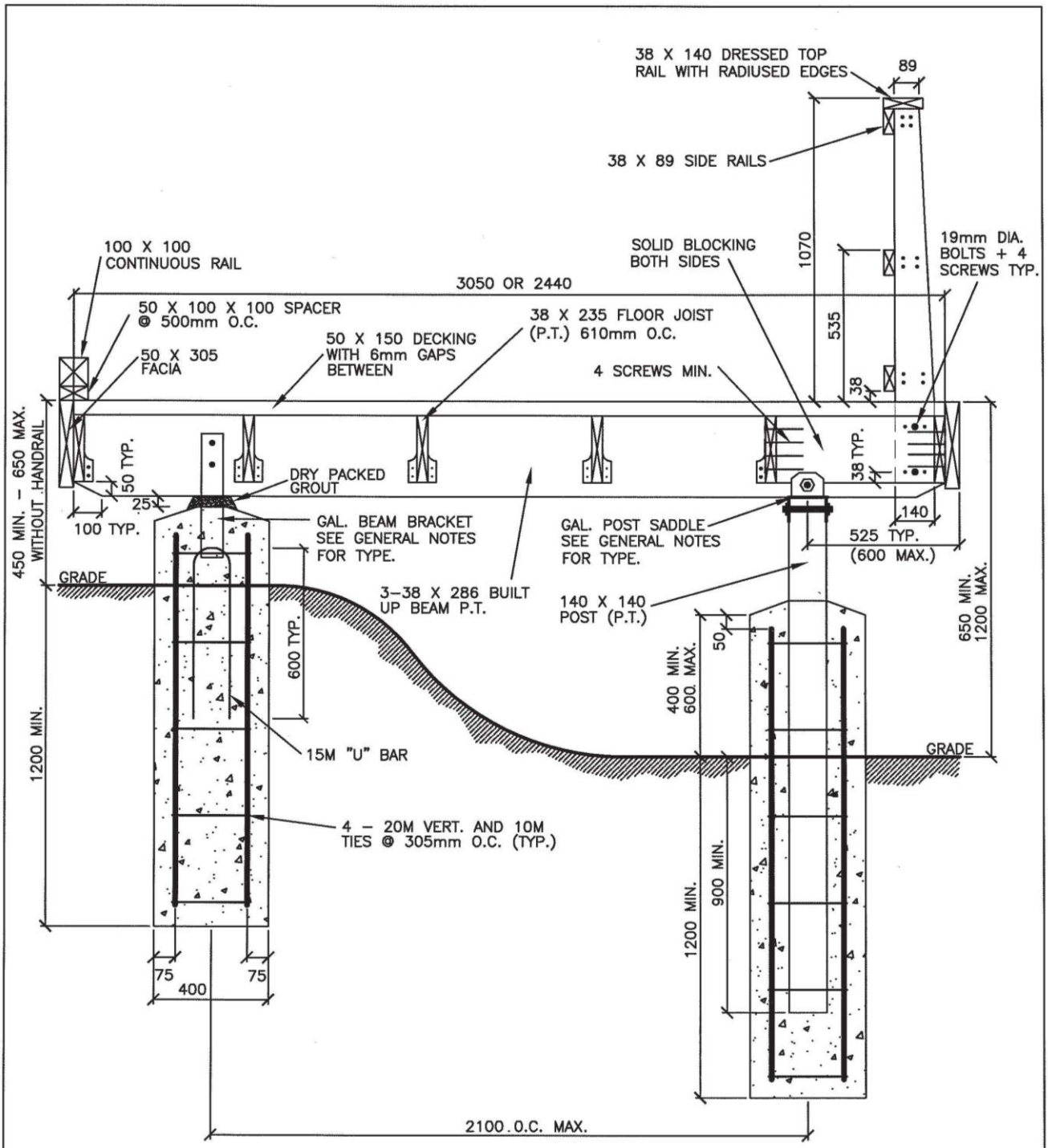


THIS DRAWING PREPARED BY:	debbert engineering inc.	TELEPHONE: (519) 668 2022 JUNE 2007

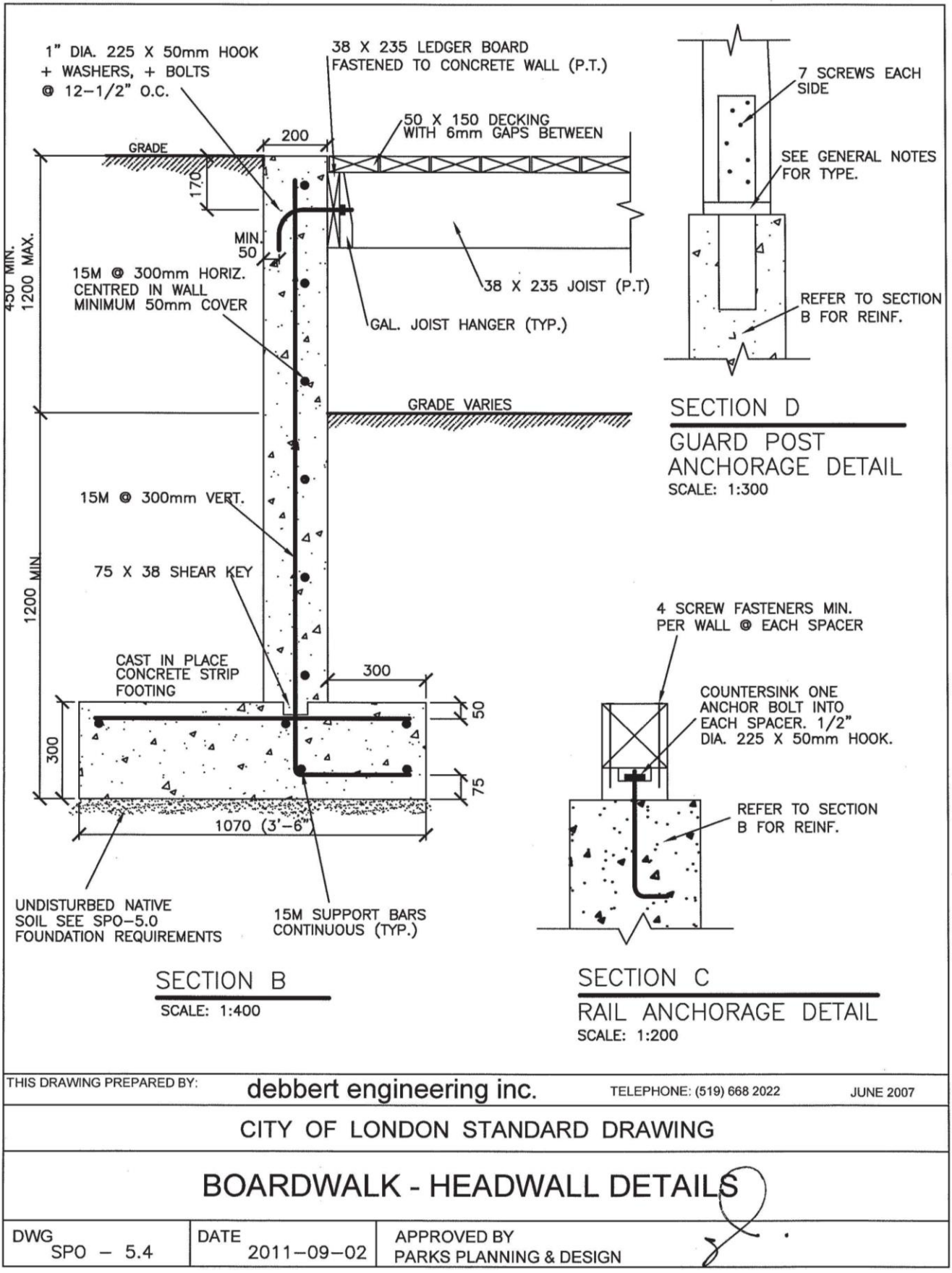
CITY OF LONDON STANDARD DRAWING

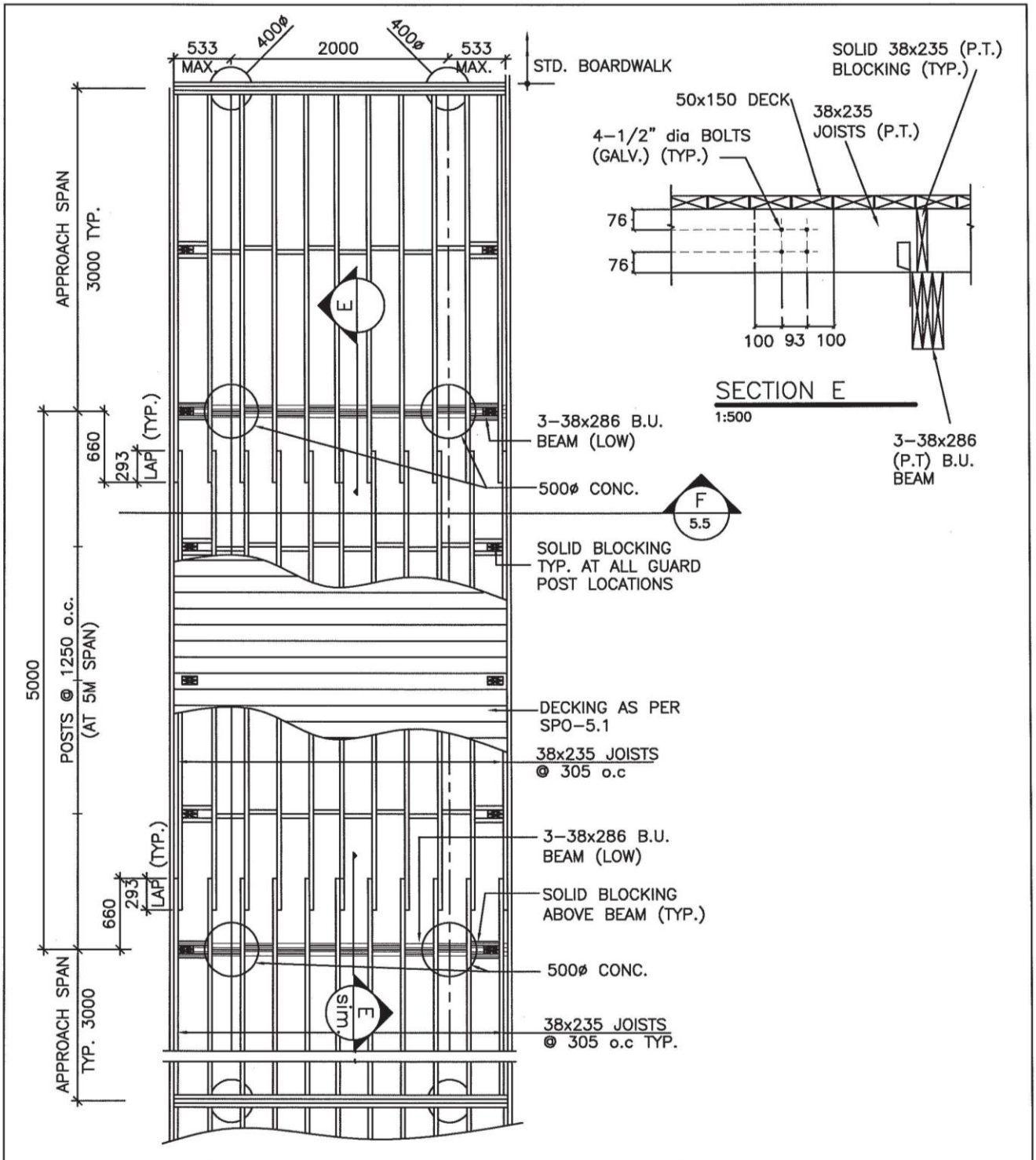
BOARDWALK - 3.7m SPAN BOARDWALK & HEADWALL PLAN

DWG	DATE	APPROVED BY
SPO – 5.2	2011–09–02	PARKS PLANNING & DESIGN



THIS DRAWING PREPARED BY:	debbert engineering inc.	TELEPHONE: (519) 668 2022	JUNE 2007
CITY OF LONDON STANDARD DRAWING			
BOARDWALK - 3.7m SPAN BOARDWALK - SECTION A			
DWG SPO – 5.3	DATE 2011–09–02	APPROVED BY PARKS PLANNING & DESIGN	


1" DIA. 225 X 50mm HOOK
+ WASHERS, + BOLTS
@ 12-1/2" O.C.
38 X 235 LEDGER BOARD
FASTENED TO CONCRETE WALL (P.T.)
50 X 150 DECKING
WITH 6mm GAPS BETWEEN
200
GRADE
170
MIN.
50
450 MIN.
1200 MAX.
15M @ 300mm HORIZ.
CENTRED IN WALL
MINIMUM 50mm COVER
38 X 235 JOIST (P.T)
GAL. JOIST HANGER (TYP.)
GRADE VARIES
15M @ 300mm VERT.
75 X 38 SHEAR KEY
1200 MIN
CAST IN PLACE
CONCRETE STRIP
FOOTING
300
50
300
75
1070 (3'-6")
UNDISTURBED NATIVE
SOIL SEE SPO-5.0
FOUNDATION REQUIREMENTS
15M SUPPORT BARS
CONTINUOUS (TYP.)
SECTION B
SCALE: 1:400
7 SCREWS EACH
SIDE
SEE GENERAL NOTES
FOR TYPE.
REFER TO SECTION
B FOR REINF.
SECTION D
GUARD POST
ANCHORAGE DETAIL
SCALE: 1:300
4 SCREW FASTENERS MIN.
PER WALL @ EACH SPACER
COUNTERSINK ONE
ANCHOR BOLT INTO
EACH SPACER. 1/2"
DIA. 225 X 50mm HOOK.
REFER TO SECTION
B FOR REINF.
SECTION C
RAIL ANCHORAGE DETAIL
SCALE: 1:200
THIS DRAWING PREPARED BY:
debbert engineering inc.
TELEPHONE: (519) 668 2022
JUNE 2007
CITY OF LONDON STANDARD DRAWING
BOARDWALK - HEADWALL DETAILS
DWG
SPO – 5.4
DATE
2011-09-02
APPROVED BY
PARKS PLANNING & DESIGN

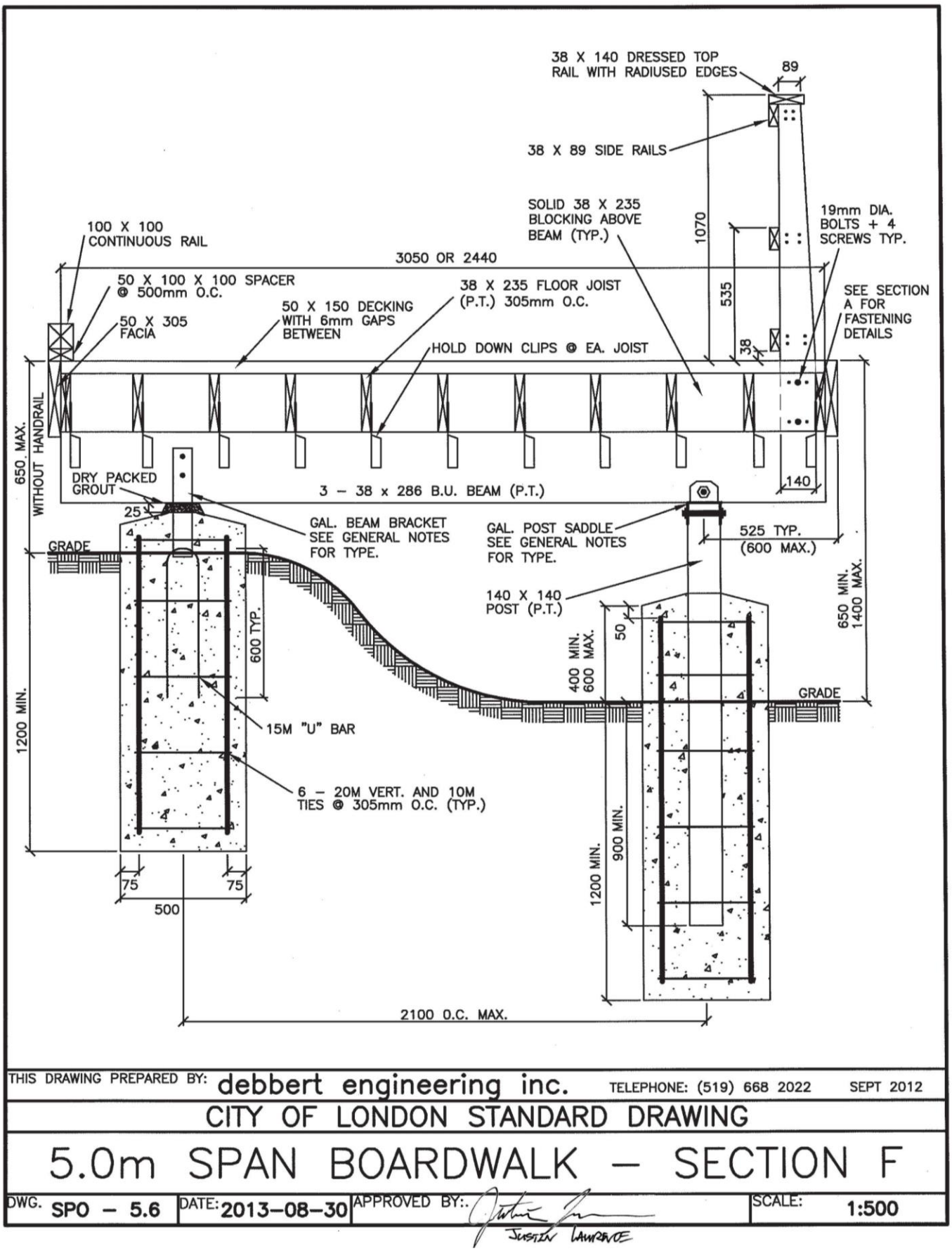


THIS DRAWING PREPARED BY:	debbert engineering inc.	TELEPHONE: (519) 668 2022	JUNE 2007

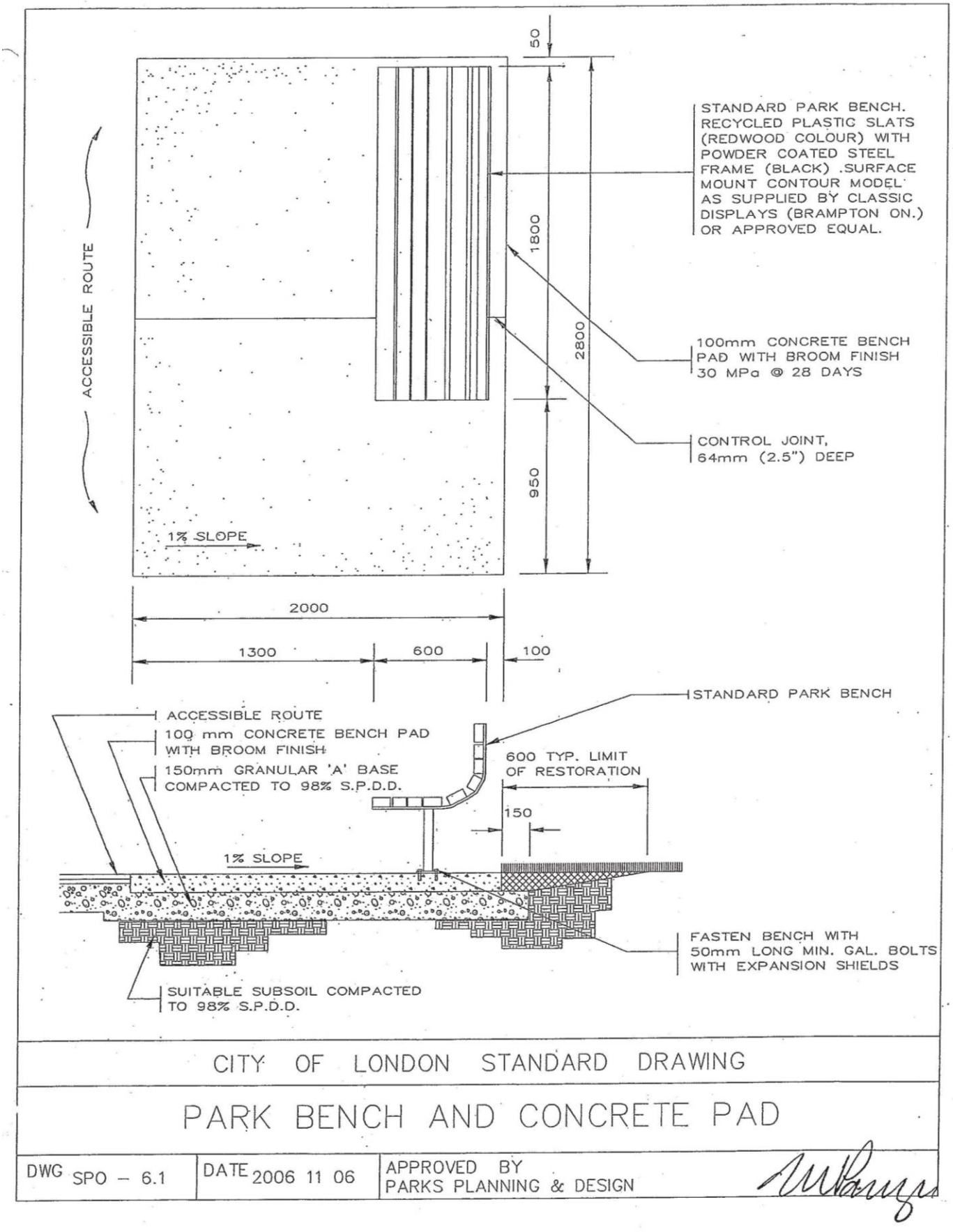
CITY OF LONDON STANDARD DRAWING

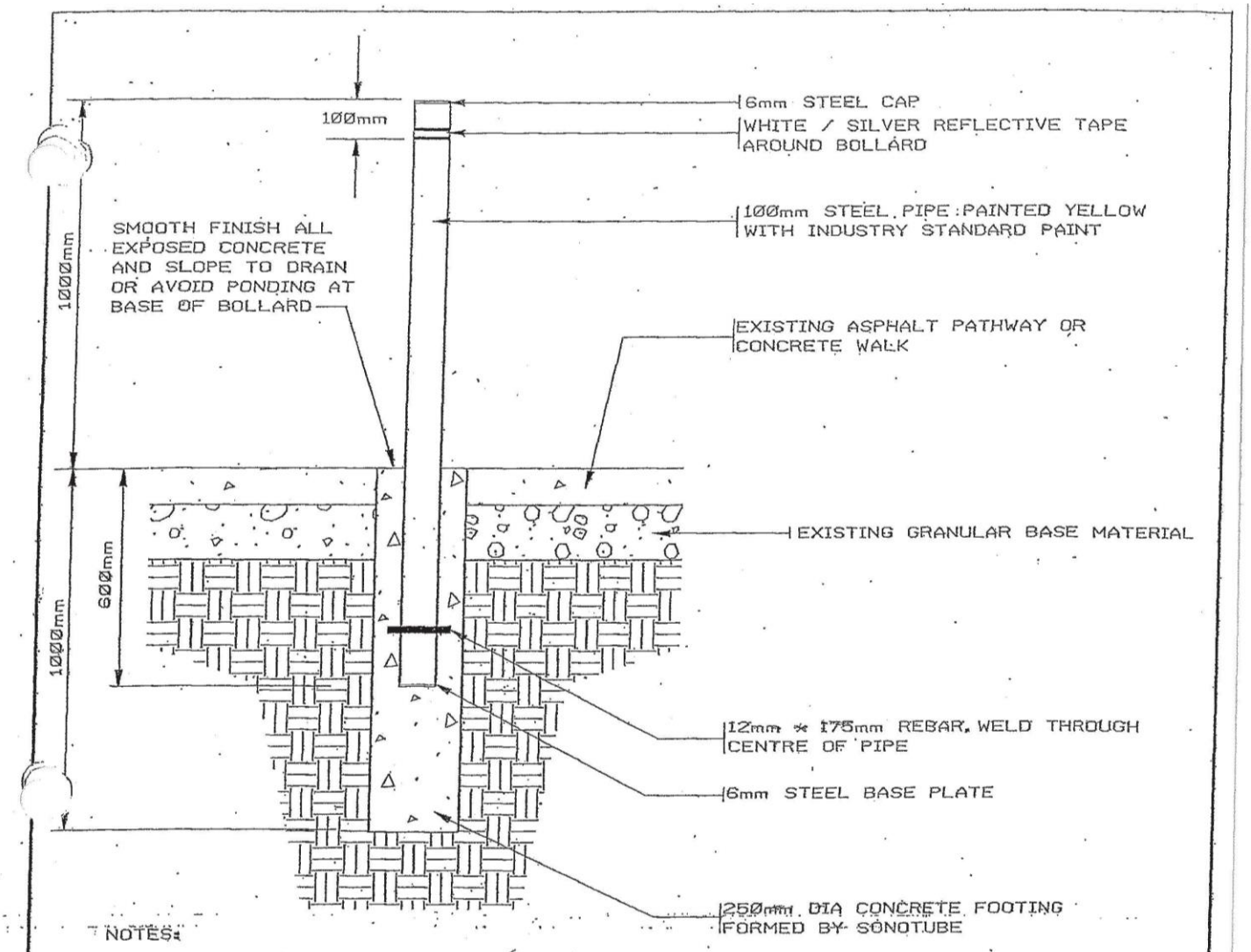
BOARDWALK - 5.0m SPAN BOARDWALK PLAN & DETAILS

DWG	DATE	APPROVED BY
SPO – 5.5	2001–09–02	PARKS PLANNING & DESIGN



THIS DRAWING PREPARED BY: debbert engineering inc.	TELEPHONE: (519) 668 2022		SEPT 2012
CITY OF LONDON STANDARD DRAWING			
5.0m SPAN BOARDWALK – SECTION F			
DWG. SPO – 5.6	DATE: 2013-08-30	APPROVED BY: JUSTIN LAWRENCE	SCALE: 1:500


50
1800
2800
950
ACCESSIBLE ROUTE
1% SLOPE
STANDARD PARK BENCH. RECYCLED PLASTIC SLATS (REDWOOD COLOUR) WITH POWDER COATED STEEL FRAME (BLACK) .SURFACE MOUNT CONTOUR MODEL AS SUPPLIED BY CLASSIC DISPLAYS (BRAMPTON ON.) OR APPROVED EQUAL.
100mm CONCRETE BENCH PAD WITH BROOM FINISH 30 MPa @ 28 DAYS
CONTROL JOINT, 64mm (2.5") DEEP
2000
1300
600
100
STANDARD PARK BENCH
ACCESSIBLE ROUTE
100 mm CONCRETE BENCH PAD WITH BROOM FINISH
150mm GRANULAR 'A' BASE COMPACTED TO 98% S.P.D.D.
600 TYP. LIMIT OF RESTORATION
150
1% SLOPE
FASTEN BENCH WITH 50mm LONG MIN. GAL. BOLTS WITH EXPANSION SHIELDS
SUITABLE SUBSOIL COMPACTED TO 98% S.P.D.D.
CITY OF LONDON STANDARD DRAWING
PARK BENCH AND CONCRETE PAD
DWG SPO – 6.1
DATE 2006 11 06
APPROVED BY PARKS PLANNING & DESIGN



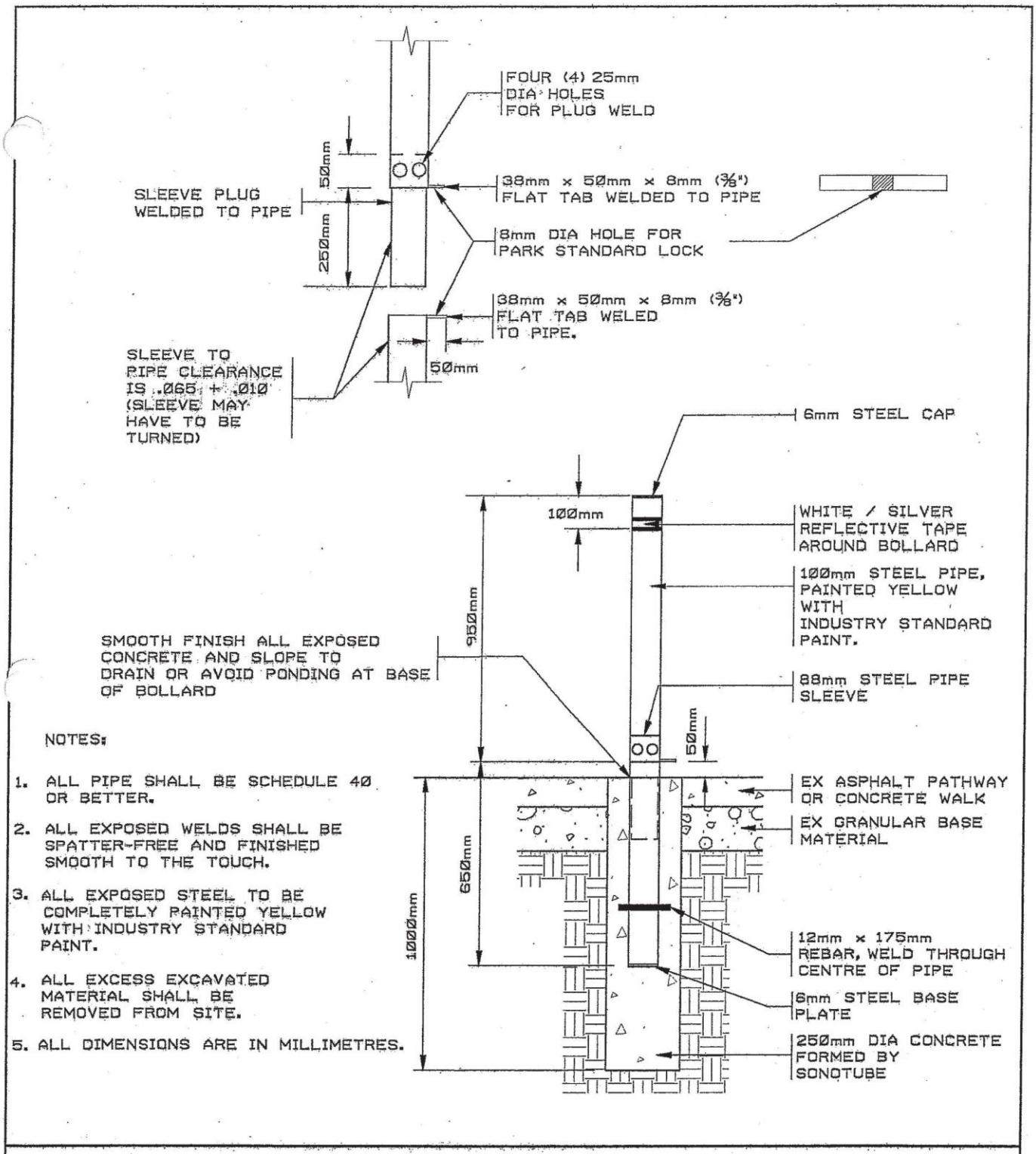
NOTES:

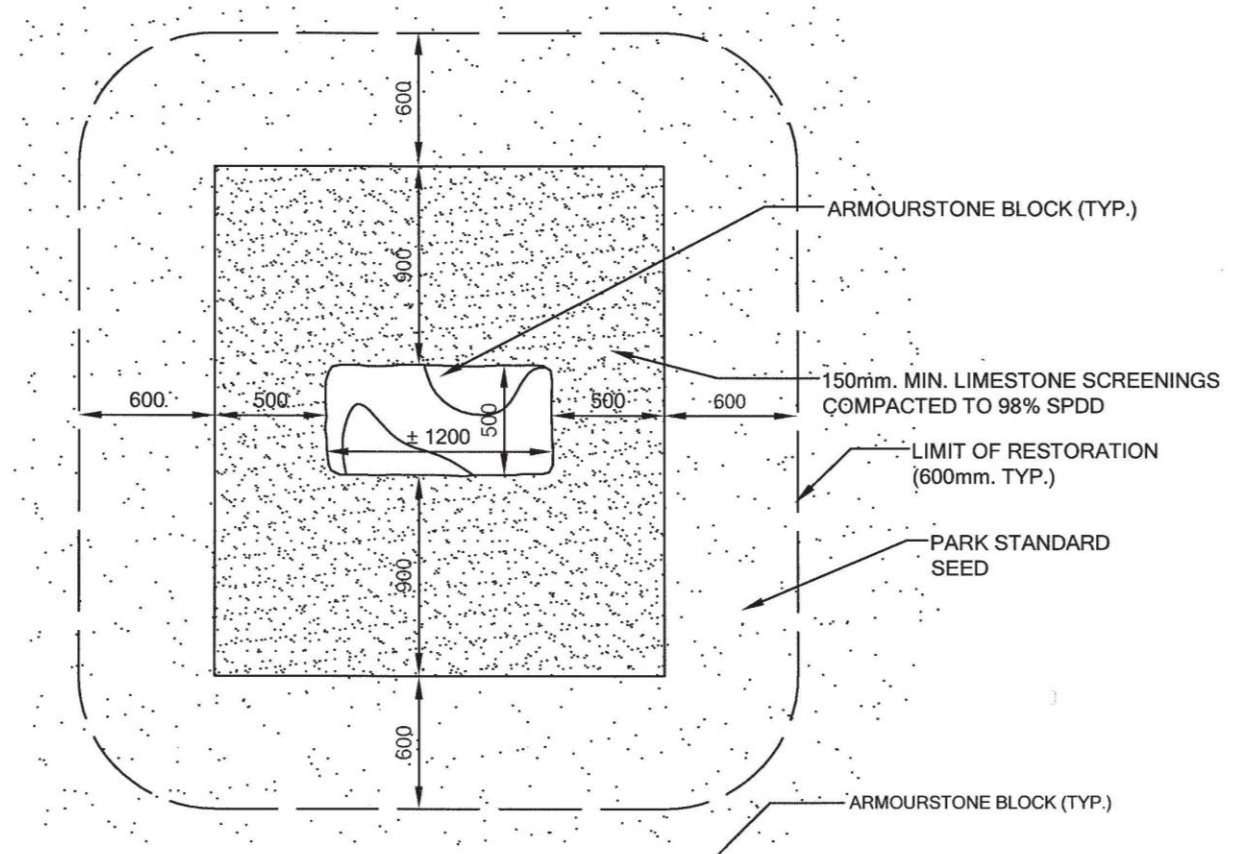
1. ALL PIPE SHALL BE SCHEDULE 40 OR BETTER
2. ALL EXPOSED WELDS SHALL BE SPATTER-FREE AND FINISHED SMOOTH TO THE TOUCH
3. ALL EXPOSED STEEL TO BE COMPLETELY PAINTED YELLOW WITH INDUSTRY STANDARD PAINT.
4. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
5. ALL DIMENSIONS IN MILLIMETRES

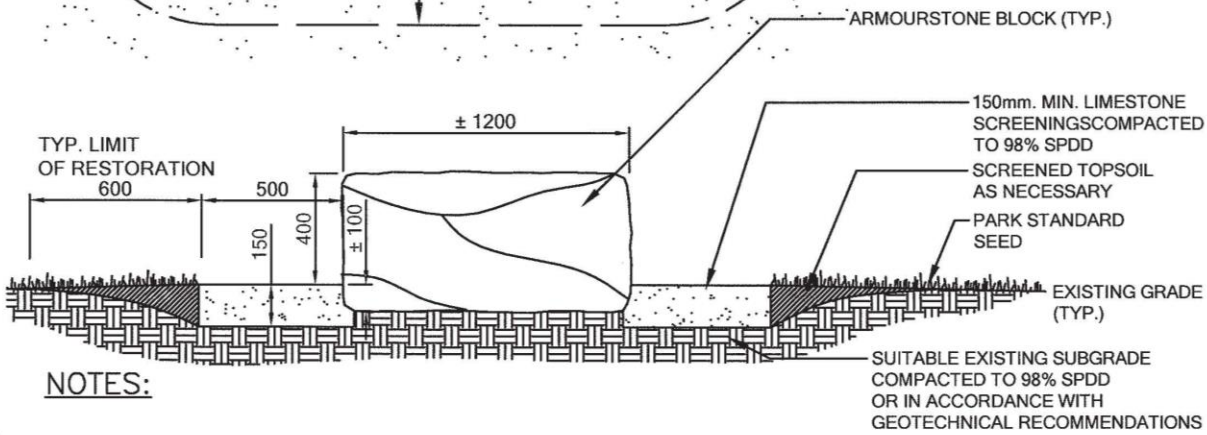
CITY OF LONDON STANDARD DRAWING

SOLID BOLLARD

DWG SPO – 6.2	DATE 2002 11 14	APPROVED BY PARKS PLANNING & DESIGN


FOUR (4) 25mm DIA HOLES FOR PLUG WELD
50mm
SLEEVE PLUG WELDED TO PIPE
250mm
38mm x 50mm x 8mm (3/8") FLAT TAB WELDED TO PIPE
8mm DIA HOLE FOR PARK STANDARD LOCK
38mm x 50mm x 8mm (3/8") FLAT TAB WELED TO PIPE.
50mm
SLEEVE TO PIPE CLEARANCE IS .065 + .010 (SLEEVE MAY HAVE TO BE TURNED)
6mm STEEL CAP
100mm
WHITE / SILVER REFLECTIVE TAPE AROUND BOLLARD
100mm STEEL PIPE, PAINTED YELLOW WITH INDUSTRY STANDARD PAINT.
950mm
SMOOTH FINISH ALL EXPOSED CONCRETE AND SLOPE TO DRAIN OR AVOID PONDING AT BASE OF BOLLARD
88mm STEEL PIPE SLEEVE
50mm
EX ASPHALT PATHWAY OR CONCRETE WALK
EX GRANULAR BASE MATERIAL
650mm
1000mm
12mm x 175mm REBAR, WELD THROUGH CENTRE OF PIPE
6mm STEEL BASE PLATE
250mm DIA CONCRETE FORMED BY SONOTUBE
NOTES:
1. ALL PIPE SHALL BE SCHEDULE 40 OR BETTER.
2. ALL EXPOSED WELDS SHALL BE SPATTER-FREE AND FINISHED SMOOTH TO THE TOUCH.
3. ALL EXPOSED STEEL TO BE COMPLETELY PAINTED YELLOW WITH INDUSTRY STANDARD PAINT.
4. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
5. ALL DIMENSIONS ARE IN MILLIMETRES.
CITY OF LONDON STANDARD DRAWING
REMOVABLE BOLLARD
DWG SPO – 6.3
DATE 2005 11 01
APPROVED BY PARKS PLANNING & DESIGN





NOTES:

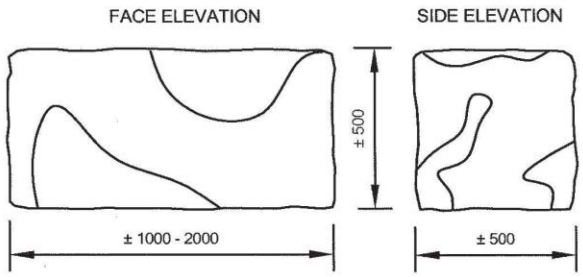
1. ARMOURSTONE TO BE SOLID BLOCKS OF DOLOMITIC LIMESTONE OR APPROVED EQUAL.
2. ARMOURSTONE TO BE RECTANGULAR AND REGULAR IN SHAPE WITH SMOOTH SIDES AND A FLAT TOP. IRREGULAR AND/OR SHARP EDGED STONE BLOCKS WILL NOT BE ACCEPTABLE.
3. LIMESTONE SCREENINGS TO BE IN ACCORDANCE WITH OPSS 1010.
4. EXCESS SPOILS TO BE REMOVED FROM THE SITE UNLESS OTHER WISE INSTRUCTED BY PROJECT MANAGER.
5. ALL GRADES TO THE APPROVAL OF PROJECT MANAGER.
6. ORIENTATION OF ARMOURSTONE SEAT TO THE APPROVAL OF PROJECT MANAGER.
7. ALL DIMENSIONS ARE IN MILLIMETERS.

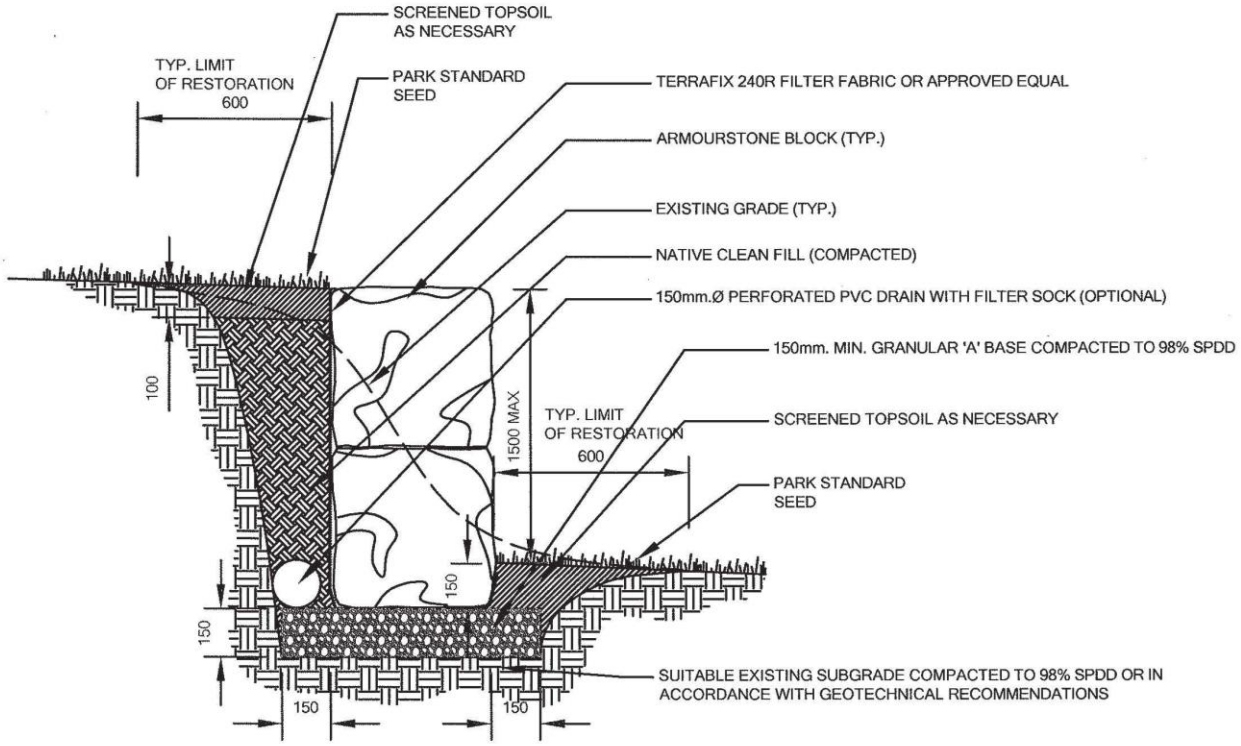
CITY OF LONDON STANDARD DRAWING

ARMOURSTONE SEAT

DWG	DATE	APPROVED BY
SPO - 6.4	2011-09-02	PARKS PLANNING & DESIGN

TYPICAL ARMOURSTONE BLOCK





NOTES:

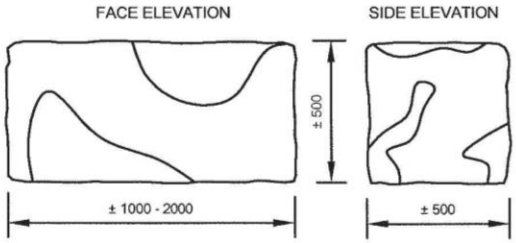
1. ARMOURSTONE TO BE SOLID BLOCKS OF DOLOMITIC LIMESTONE OR APPROVED EQUAL.
2. ARMOURSTONE TO BE RECTANGULAR AND REGULAR IN SHAPE WITH SMOOTH SIDES AND A FLAT TOP. IRREGULAR AND/OR SHARP EDGED STONE BLOCKS WILL NOT BE ACCEPTABLE.
3. EXCESS SPOILS TO BE REMOVED FROM THE SITE UNLESS OTHER WISE INSTRUCTED BY PROJECT ADMINISTRATOR.
4. ALL GRADES TO THE APPROVAL OF PROJECT MANAGER.
5. ORIENTATION OF ARMOURSTONE SEAT TO THE APPROVAL OF PROJECT MANAGER.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.

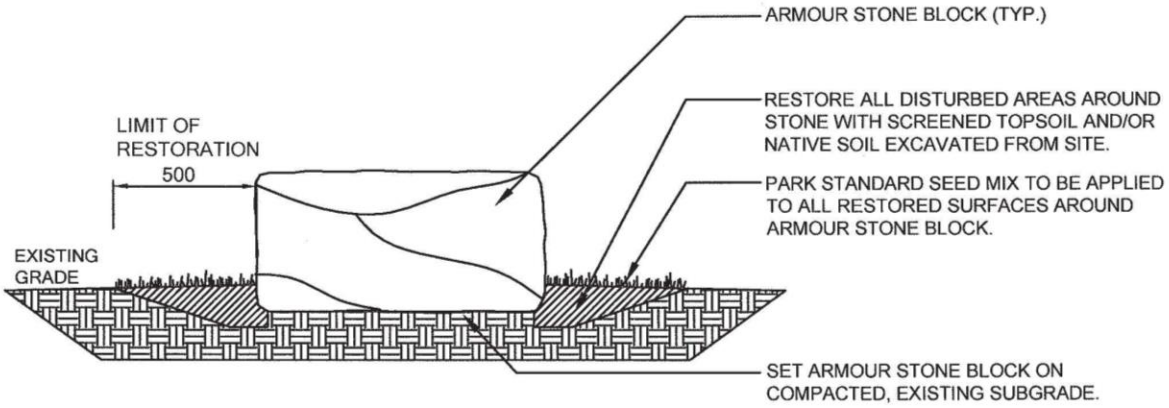
CITY OF LONDON STANDARD DRAWING

ARMOURSTONE RETAINING WALL

DWG	DATE	APPROVED BY
SPO - 6.5	2011-09-02	PARKS PLANNING & DESIGN

TYPICAL ARMOURSTONE BLOCK





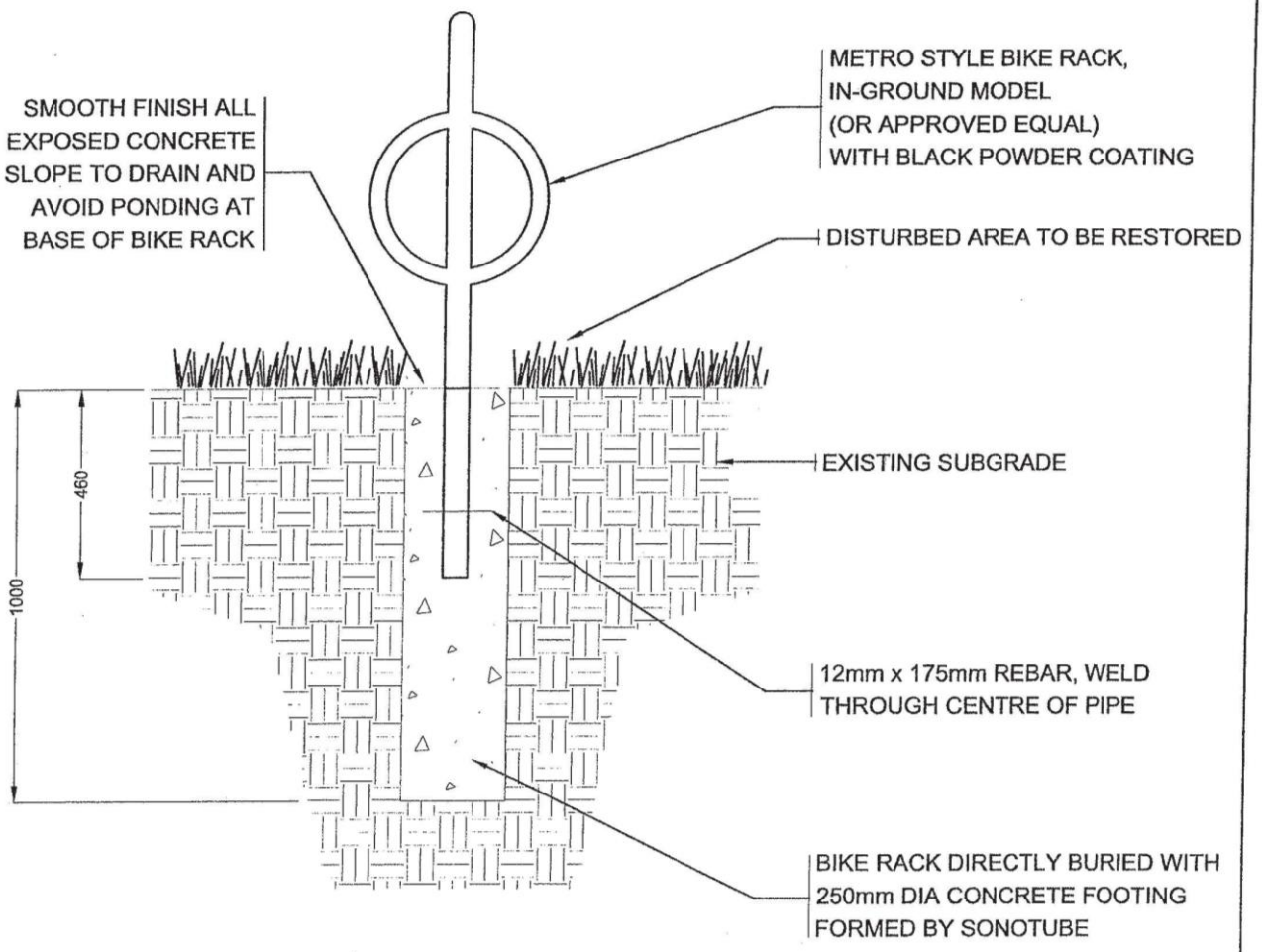
NOTES:

1. ARMOUR STONE TO BE SOLID BLOCKS OF DOLOMITIC LIMESTONE OR APPROVED EQUAL.
2. ARMOURSTONE TO BE RECTANGULAR AND REGULAR IN SHAPE WITH SMOOTH SIDES AND A FLAT TOP. IRREGULAR AND/OR SHARP EDGED STONE BLOCKS WILL NOT BE ACCEPTED.
3. EXCESS SPOIL TO BE REMOVED FROM SITE UNLESS OTHERWISE DIRECTED BY PROJECT ADMINISTRATOR.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

CITY OF LONDON STANDARD DRAWING

ARMOURSTONE BLOCK

DWG	DATE	APPROVED BY
SPO - 6.6	2011-09-02	PARKS PLANNING & DESIGN



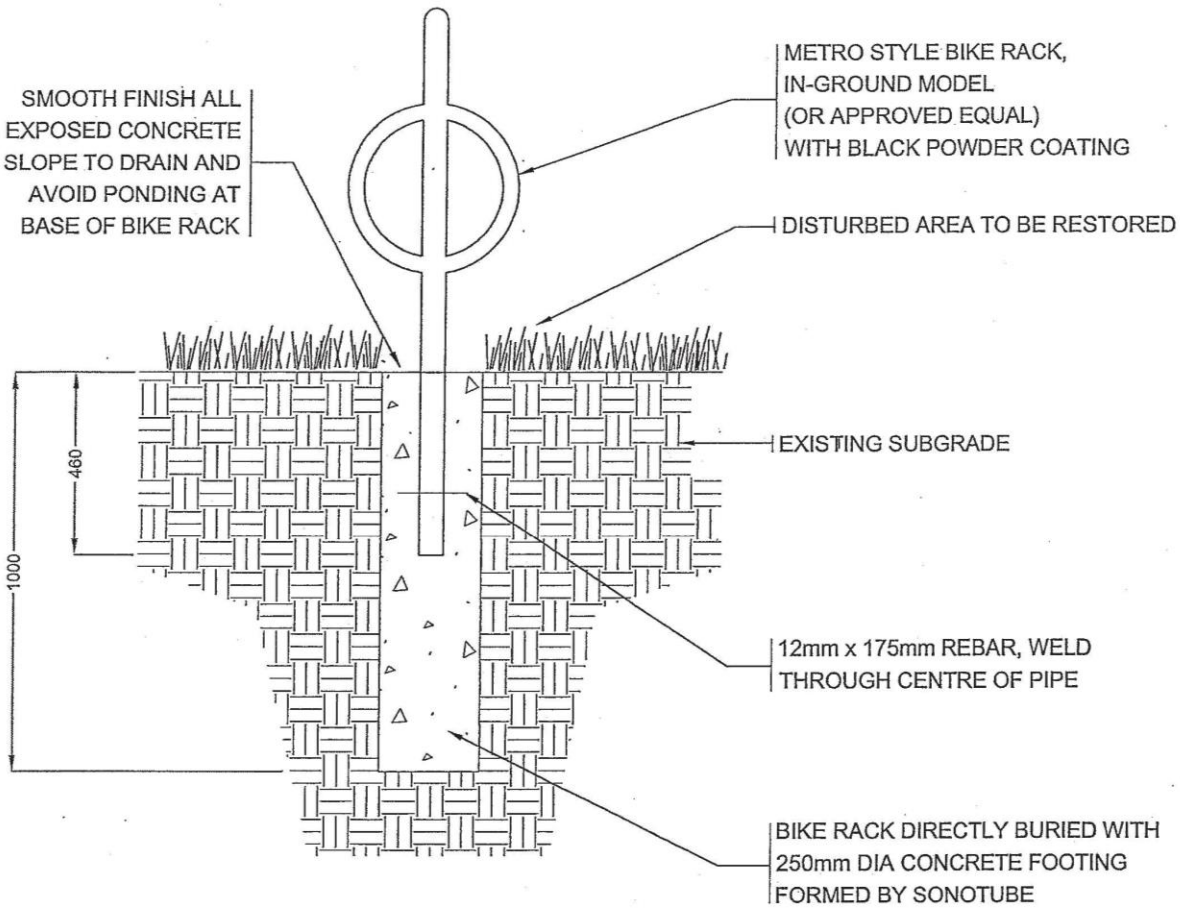
NOTES:

1. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

CITY OF LONDON STANDARD DRAWING

NEIGHBOURHOOD PARK BIKE RACK

DWG	DATE	APPROVED BY
SPO - 6.7	2012 08 27	PARKS PLANNING & DESIGN



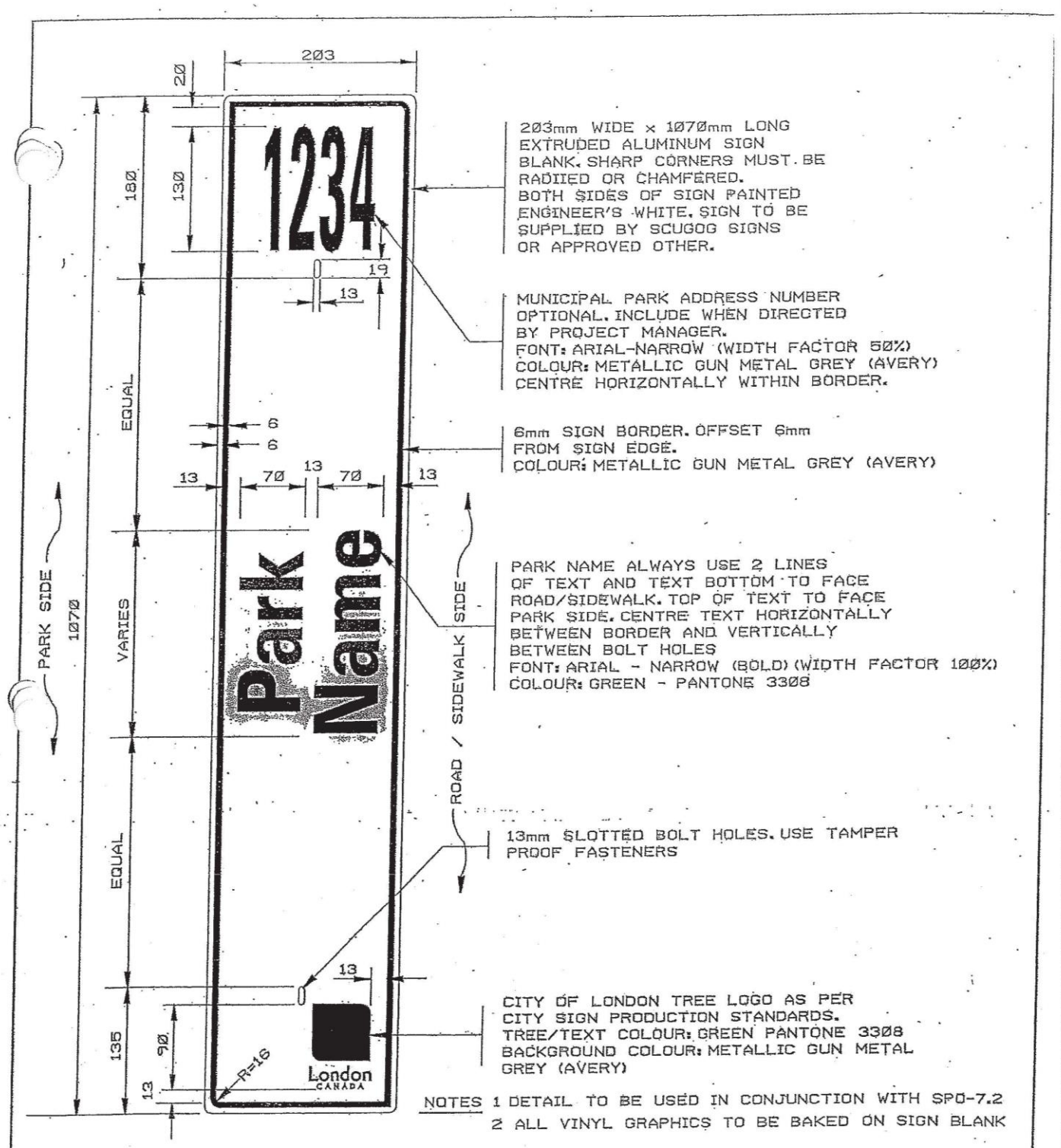
NOTES:

1. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

CITY OF LONDON STANDARD DRAWING

NEIGHBOURHOOD PARK BIKE RACK

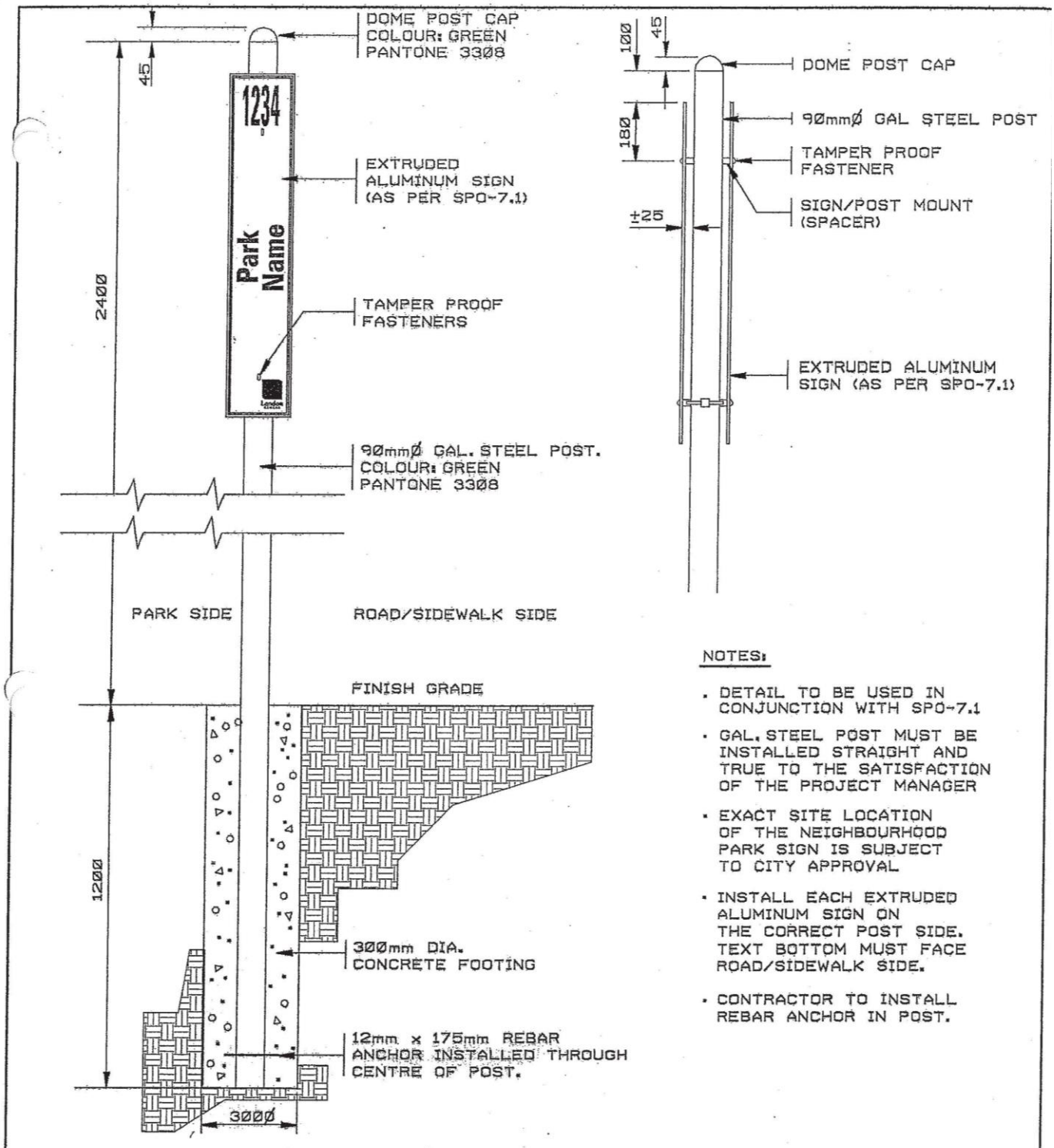
DWG	DATE	APPROVED BY
SPO - 6.10	2006 11 06	PARKS PLANNING AND DESIGN



CITY OF LONDON STANDARD DRAWING

NEIGHBOURHOOD PARK SIGN – LAYOUT

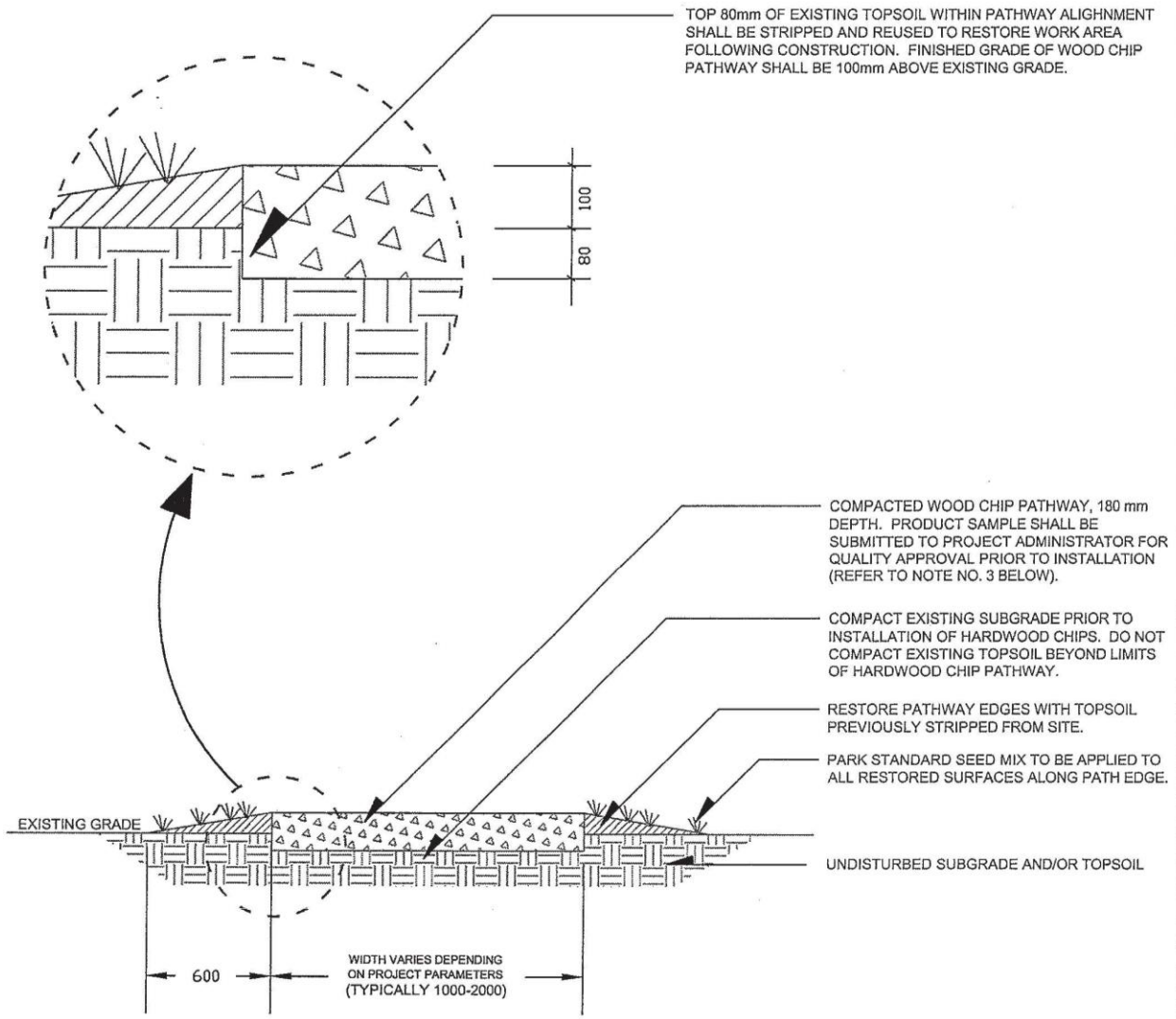
DWG	DATE	APPROVED BY
SPO – 7.1	2002 12 18	PARKS PLANNING & DESIGN



CITY OF LONDON STANDARD DRAWING

NEIGHBOURHOOD PARK SIGN – INSTALLATION

DWG	DATE	APPROVED BY
SPO – 7.2	2005 11 01	PARKS PLANNING & DESIGN



NOTES:

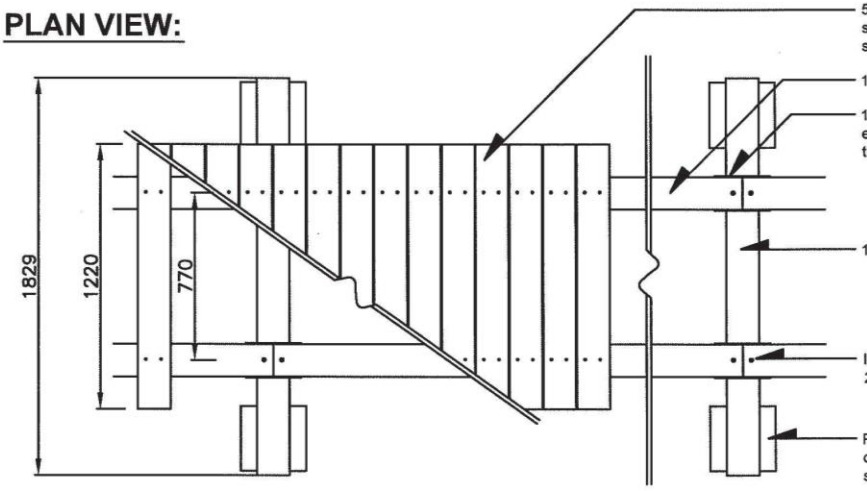
1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. DISTURBANCE BEYOND 600mm FROM PATHWAY EDGE WILL NOT BE PERMITTED. EFFORT SHALL BE TAKEN TO MINIMIZE DISTURBANCE AND COMPACTION TO TOPSOIL AND VEGETATION WITHIN THIS 600mm DISTANCE.
3. SUPPLY OF WOOD CHIPS SHALL BE FREE OF NAILS, PRESSURE TREATED WOOD, TOPSOIL AND SAWDUST. WOOD CHIPS SHALL BE A CONSISTENT SIZE. WOOD CHIPS SHALL BE OF A SIZE THAT AVOIDS RAPID DECAY , WHILE PERMITING COMFORTABLE PEDESTRIAN FOOT TRAFFIC. PRIOR TO INSTALLATION, CONTRACTOR SHALL SUBMIT SAMPLE OF WOOD CHIPS TO CONTRACT ADMINISTRATOR FOR QUALITY ACCEPTANCE.

CITY OF LONDON STANDARD DRAWING

WOOD CHIP TRAIL

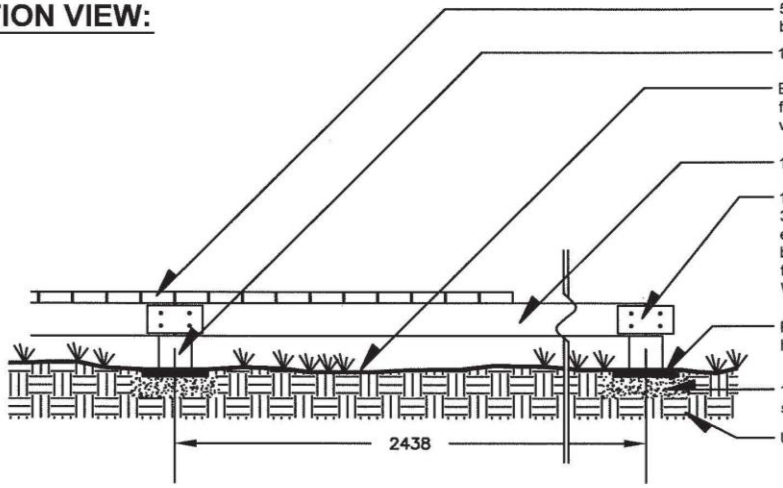
DWG	DATE	APPROVED BY
SPO 8.1	2007-10-16	PARKS PLANNING AND DESIGN

PLAN VIEW:



- 50x150 rough cut cedar decking. Cedar decking to be secured to joist using 89mm (3.5") decking screws (two screws per side). 12mm spacing between boards.
- 150x150 rough cut cedar joist.
- 125x255 steel plates connecting joists. One plate on each side of joist. Plate shall be minimum 3mm (1/8") thick.
- 150x150 rough cut cedar beam.
- Individual cedar joists to be fastened to beam using a 254mm (10") long galvanized spike.
- Precast concrete patio slab 300x300 set on 100 of compacted (hand tamped) limestone screenings. Patio slab shall have a minimum thickness of 38mm (1.5").

SECTION VIEW:

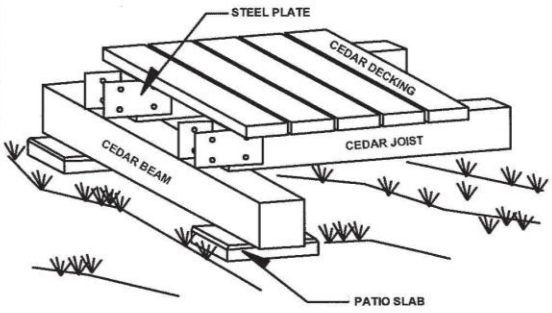


- 50x150 rough cut cedar decking. 12mm spacing between boards
- 150x150 rough cut cedar beam.
- Existing grade. Boardwalk shall be constructed in a fashion that minimizes disturbance to surrounding vegetation and drainage patterns.
- 150x150 rough cut cedar joist.
- 125x255 steel plates connecting joists. Plate shall be 3mm (1/8") thick min. One steel plate to be secured on each side of joints using four 13mmx203mm (1/2"x8") bolts. Bolts shall be inserted through predrilled holes in the joist and both plates - tighten with washer and nut. Washer and nut to be placed on inside of joist.
- Precast concrete patio slab 300x300. Patio slab shall have a minimum thickness of 38mm (1.5").
- 100 depth of compacted (hand tamped) limestone screenings.
- Undisturbed subgrade.

NOTES:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. DISTURBANCE BEYOND 600mm FROM EDGE OF BOARDWALK WILL NOT BE PERMITTED. EFFORT SHALL BE TAKEN TO MINIMIZE DISTURBANCE AND COMPACTION TO TOPSOIL AND VEGETATION WITHIN THIS 600mm DISTANCE.
3. ALL FASTENERS TO BE HOT DIPPED GALVANIZED.
4. ALIGNMENT OF PROPOSED BOARDWALK TO BE APPROVED ON SITE BY PARKS PLANNING AND DESIGN STAFF PRIOR TO ANY CLEARING AND/OR CONSTRUCTION COMMENCING.
5. ANY 'RAMP' FROM EXISTING GRADE UP TO THE LEVEL PORTION OF BOARDWALK SHALL NOT EXCEED 6%.
6. A RAMP SHALL BE CONSTRUCTED AT ALL TERMINATION POINTS OF THE BOARDWALK. RAMP SHALL HAVE A MAXIMIMUM SLOPE OF 8%. END OF RAMP SHALL BE FLUSH WITH TRAIL APROACH SO NO STEP OR TRIP HAZARD IS PRESENT.

PERSPECTIVE

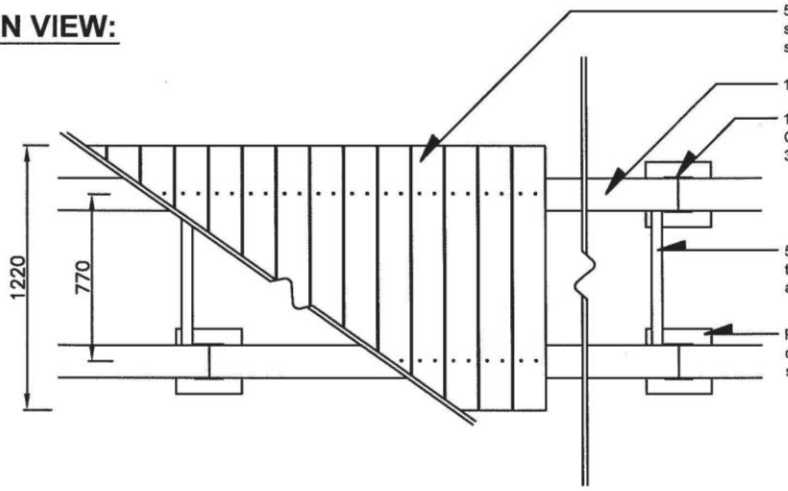


CITY OF LONDON STANDARD DRAWING

TRAIL BOARDWALK (ON-GRADE)

DWG	DATE	APPROVED BY
SPO – 8.2	2011 09 02	PARKS PLANNING & DESIGN

PLAN VIEW:



50x150 rough cut cedar decking. Cedar decking to be secured to joist using 89mm (3.5") decking screws (two screws per side). 12mm spacing between boards.

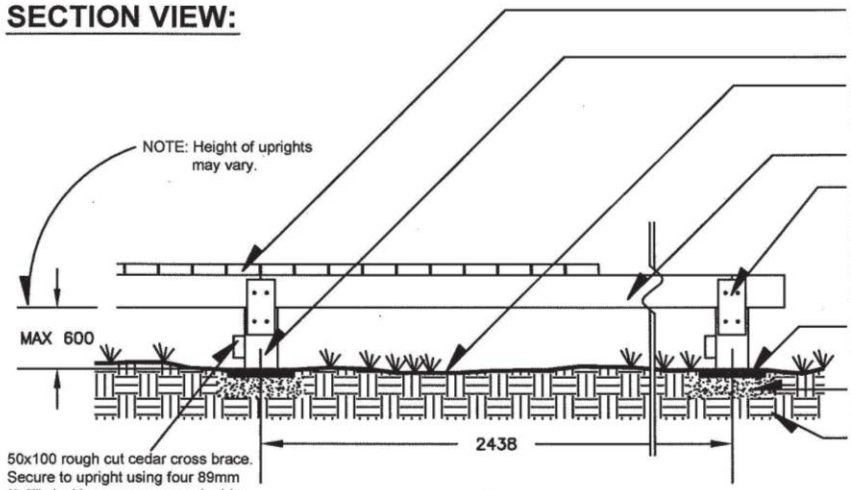
150x150 rough cut cedar joist.

125x255 steel plates connecting uprights to the joists. One plate on each side of joist. Plate shall be minimum 3mm (1/8") thick.

50x100 rough cut cedar cross brace. Secure crossbrace to uprights using four 89mm (3.5") long decking screws at each upright.

Precast concrete patio slab 300x300 set on 100 of compacted (hand tamped) limestone screenings. Patio slab shall have a minimum thickness of 38mm (1.5").

SECTION VIEW:



50x150 rough cut cedar decking. 12mm spacing between boards.

150x150 rough cut cedar upright.

Existing grade. Boardwalk shall be constructed in a fashion that minimizes disturbance to surrounding vegetation and drainage patterns.

150x150 rough cut cedar joist.

125x255 steel plates connecting uprights to the joists. Plate shall be 3mm (1/8") thick min. One steel plate to be secured on each side of joist using four 13mmx203mm (1/2"x8") bolts. Bolts shall be inserted through predrilled holes in the joist and uprights and both plates - tighten with washer and nut. Washer and nut to be placed on inside of joist.

Precast concrete patio slab 300x300. Patio slab shall have a minimum thickness of 38mm (1.5").

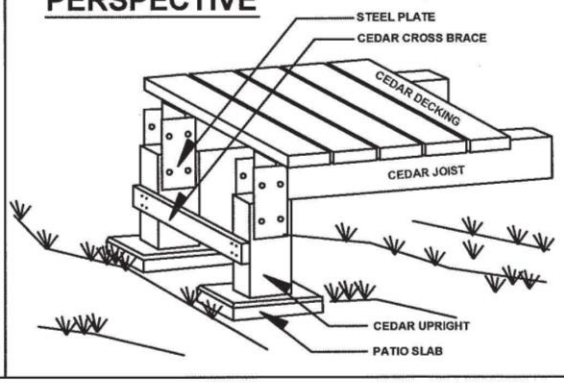
100 depth of compacted (hand tamped) limestone screenings.

Undisturbed subgrade.

NOTES:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. DISTURBANCE BEYOND 600mm FROM EDGE OF BOARDWALK WILL NOT BE PERMITTED. EFFORT SHALL BE TAKEN TO MINIMIZE DISTURBANCE AND COMPACTION TO TOPSOIL AND VEGETATION WITHIN THIS 600mm DISTANCE.
3. ALL FASTENERS TO BE HOT DIPPED GALVANIZED.
4. ALIGNMENT OF PROPOSED BOARDWALK TO BE APPROVED ON SITE BY PARKS PLANNING AND DESIGN STAFF PRIOR TO ANY CLEARING AND/OR CONSTRUCTION COMMENCING.
5. ANY 'RAMP' FROM EXISTING GRADE UP TO THE LEVEL PORTION OF BOARDWALK SHALL NOT EXCEED 6%.
6. A RAMP SHALL BE CONSTRUCTED AT ALL TERMINATION POINTS OF THE BOARDWALK. RAMP SHALL HAVE A MAXIMIMUM SLOPE OF 8%. END OF RAMP SHALL BE FLUSH WITH TRAIL APROACH SO NO STEP OR TRIP HAZARD IS PRESENT.

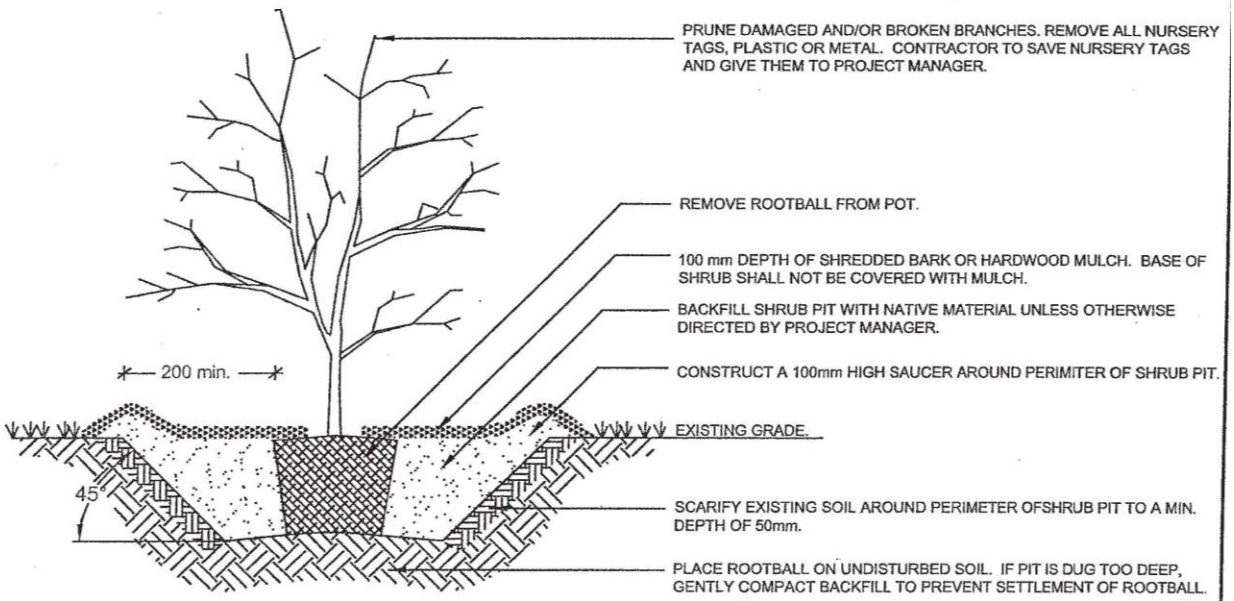
PERSPECTIVE



CITY OF LONDON STANDARD DRAWING

TRAIL BOARDWALK (ELEVATED)

DWG	DATE	APPROVED BY
SPO – 8.3	2011 09 02	PARKS PLANNING & DESIGN



NOTES:

1. BASE OF SHRUB TO HAVE SAME ELEVATION RELATIVE TO FINISHED GRADE AS PREVIOUSLY OCCUPIED PRIOR TO TRANSPLANTING.
2. SAUCER TO BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. SIZE OF SHRUB MUST MEET CONTRACT REQUIREMENTS.
5. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS OF THE CANADIAN NURSERY TRADES ASSOCIATION FOR SIZE AND SPECIES.

CITY OF LONDON STANDARD DRAWING

TYPICAL SHRUB PLANTING DETAIL

DWG	DATE	APPROVED BY
SPO - 9.1	2012–08–27	PARKS PLANNING AND DESIGN

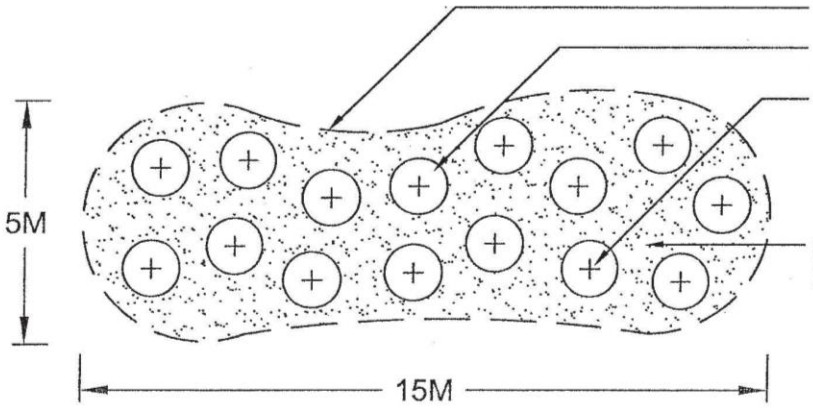


FIGURE 1: Typical Shrub Module Layout and Size (see notes below)

NOTES:

1. PLANTING MODULES SHALL CONSIST OF 15-NATIVE SHRUBS INSTALLED +/- 2.0 METERS ON CENTRE. TYPICAL MODULE SHALL BE SIZED AS ILLUSTRATED ABOVE
2. PROPOSED SHRUBS WITHIN MODULE SHALL BE INSTALLED IN INFORMAL NATURALISTIC GROUPINGS. DO NOT PLANT IN STRAIGHT ROWS.
3. INDIVIDUAL SHRUB PITS WITHIN MODULE SHALL BE DUG AND BACKFILLED IN ACCORDANCE WITH THE CITY OF LONDON 'TYPICAL SHRUB PLANITNG DETAIL (SPO 9.1).
4. WOOD MULCH TO A DEPTH OF 100MM AROUND BASE OF SHRUBS ONLY AS ILLUSTRATED ON SPO 9.1.
5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
6. SUBSTITUTIONS TO THE RECOMMENDED PLANT LISTS WILL NOT BE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE CONTRACT ADMINISTRATOR.

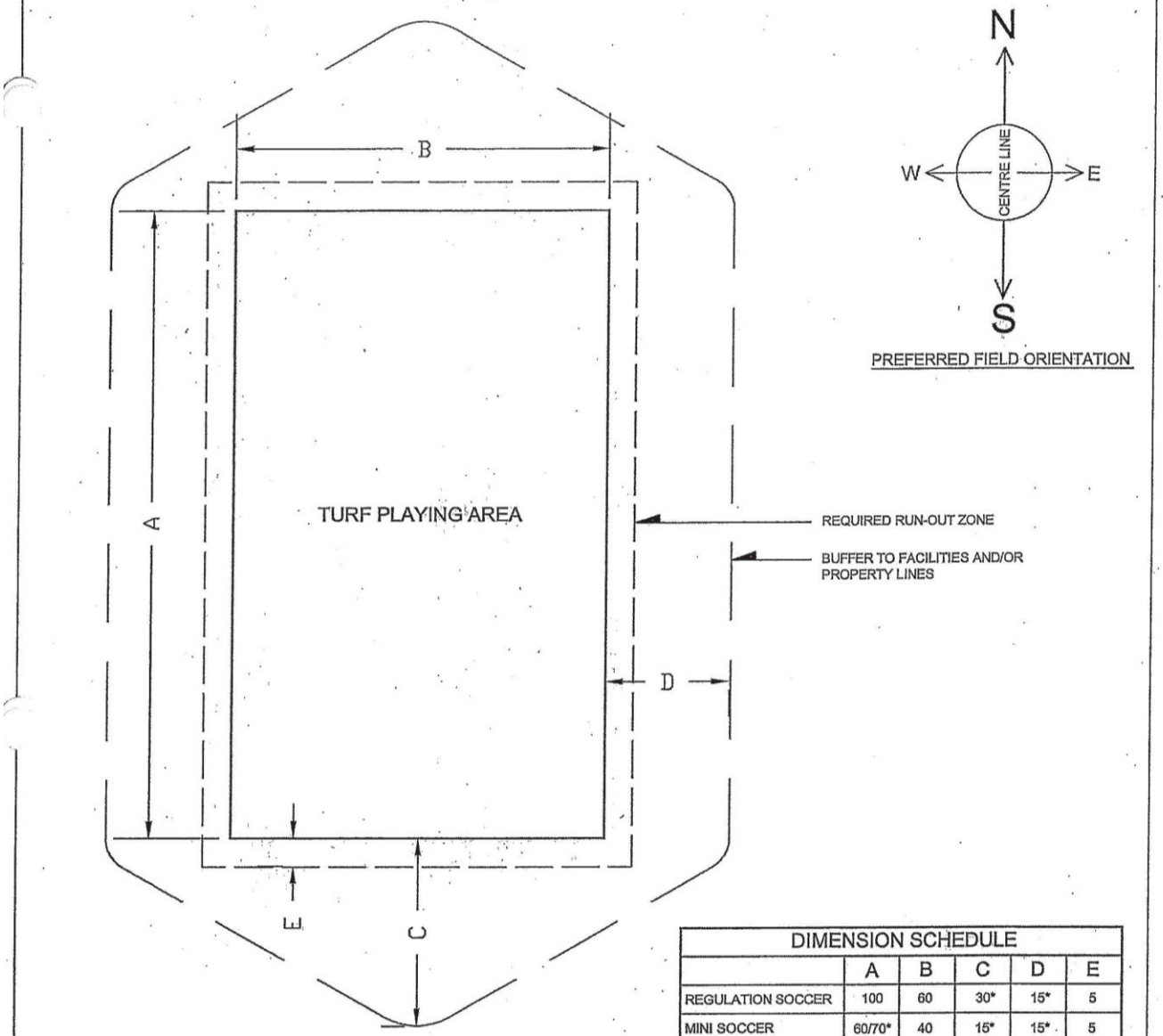
LABEL CODE	SPECIES SCIENTIFIC NAME	SPECIES COMMON NAME	QTY	SIZE	COND.
UPLAND MODULES					
U1	*Cornus racemosa*	Grey Dogwood	5	60cm, 3gal	Potted
	Prunus virginiana	Common ChokeCherry	5	60cm, 3gal	Potted
	Rhus typhina	Staghorn Sumac	5	60cm, 3gal	Potted
U2	*Cornus alternifolia*	Alternate-leaved Dogwood	5	60cm, 3gal	Potted
	Hamamelis virginiana	Witch Hazel	5	60cm, 3gal	Potted
	Cornus rugosa	Round-leaved Dogwood	5	60cm, 3gal	Potted
U3	*Rhus glabra*	Smooth Sumac	5	60cm, 3gal	Potted
	Amelanchier canadens	Serviceberry	5	60cm, 3gal	Potted
	Cornus racemosa	Grey Dogwood	5	60cm, 3gal	Potted
FLOODPLAIN MODULES					
F1	*Cornus sericea*	Red Osier Dogwood	5	60cm, 3gal	Potted
	Salix bebbiana	Bebb's Willow	5	60cm, 3gal	Potted
	Prunus americana	Wild Plum	5	60cm, 3gal	Potted
F2	*Sambucus canadensis*	American Elder	5	60cm, 3gal	Potted
	Virburnum lentago	Nannyberry	5	60cm, 3gal	Potted
	Physocarpus opulifolio	Common Ninebark	5	60cm, 3gal	Potted
F3	*Salix lucida*	Shining Willow	5	60cm, 3gal	Potted
	Viburmum trilobum	Highbush Cranberry	5	60cm, 3gal	Potted
	Ilex verticillata	Winterberry	5	60cm, 3gal	Potted

FIGURE 2: Typical Species Composition for Individual Shrub Modules.

CITY OF LONDON STANDARD DRAWING

NATURALIZATION NATIVE SHRUB MODULE DETAIL

DWG	DATE	APPROVED BY
SPO - 9.2	2012–08–27	PARKS PLANNING AND DESIGN



PREFERRED FIELD ORIENTATION

DIMENSION SCHEDULE					
	A	B	C	D	E
REGULATION SOCCER	100	60	30*	15*	5
MINI SOCCER	60/70*	40	15*	15*	5

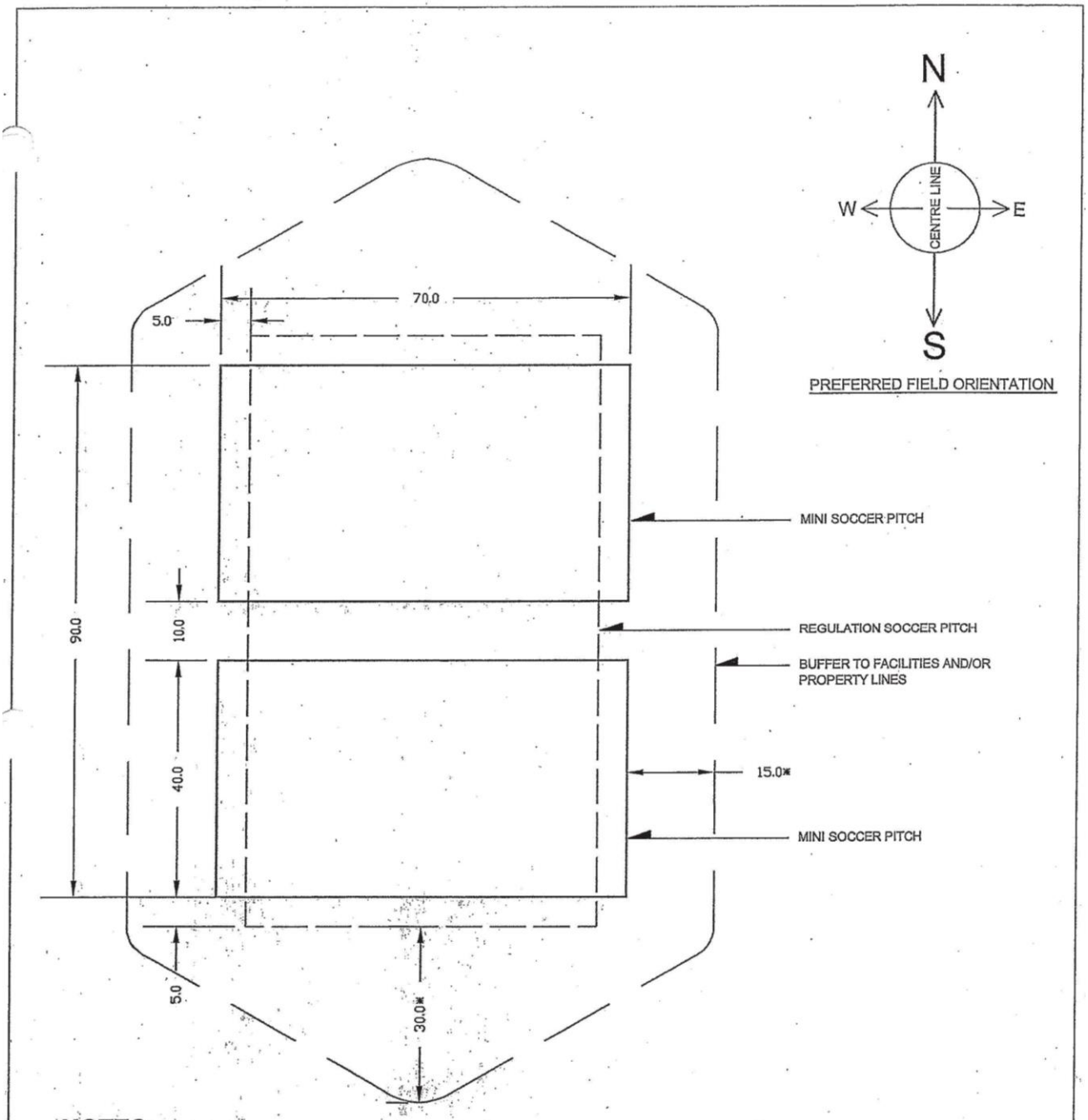
NOTES:

1. ALL DIMENSIONS GIVEN IN METERS UNLESS OTHERWISE NOTED.
2. DRAWING SHALL BE READ IN CONJUNCTION WITH CITY OF LONDON STANDARD DRAWING SPO-10.3
*3. LENGTH OF SINGLE MINI SOCCER PITCH TO BE A MINIMUM OF 60 METERS TO A MAXIMUM OF 70 METERS IN LENGTH. REFER TO DETAIL SPO-10.2 FOR LENGTH OF DOUBLE MINI SOCCER PITCH.
*4. BUFFER DISTANCES MAY BE ALTERED DUE TO ON-SITE CONDITIONS AT THE DISCRETION AND APPROVAL OF THE CITY OF LONDON.

CITY OF LONDON STANDARD DRAWING

SOCCER PITCH LAYOUT

DWG	DATE	APPROVED BY
SPO-10.1	2005 11 01	PARKS PLANNING AND DESIGN



NOTES:

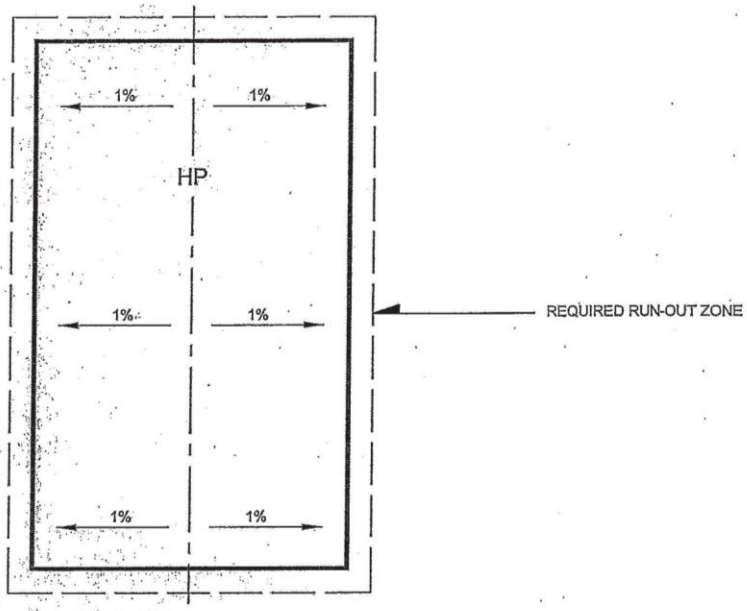
1. ALL DIMENSIONS GIVEN IN METERS UNLESS OTHERWISE NOTED.
2. DRAWING SHALL BE READ IN CONJUNCTION WITH CITY OF LONDON STANDARD DRAWING SPO-10.1

*3. BUFFER DISTANCES MAY BE ALTERED DUE TO ON-SITE CONDITIONS AT THE DISCRETION AND APPROVAL OF THE CITY OF LONDON.

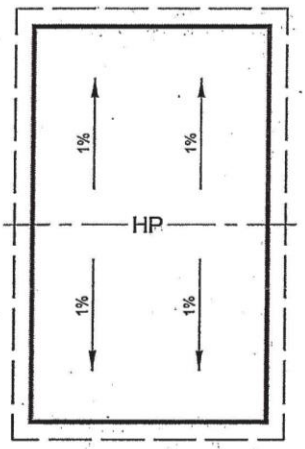
CITY OF LONDON STANDARD DRAWING

DOUBLE MINI SOCCER PITCH WITHIN REGULATION PITCH LAYOUT

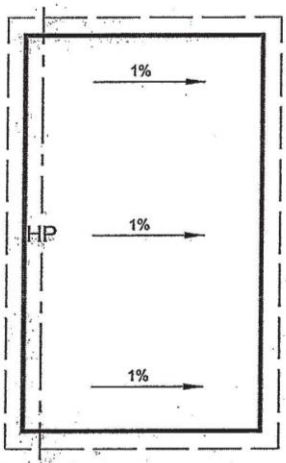
DWG	DATE	APPROVED BY
SPO-10.2	2005 11 01	PARKS PLANNING AND DESIGN



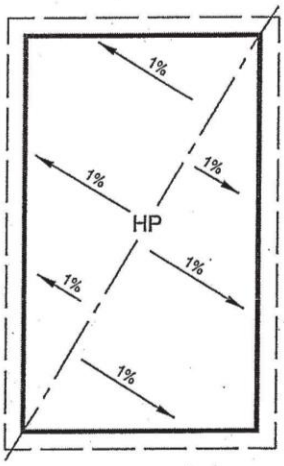
PREFERRED OPTION 'A'



ALTERNATE OPTION 'B'



ALTERNATE OPTION 'C'



ALTERNATE OPTION 'D'

NOTES:

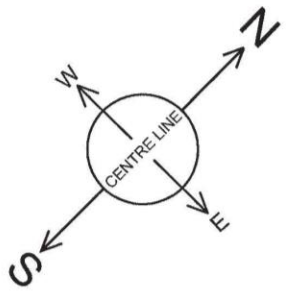
1. TOPSOIL SHALL BE IN ACCORDANCE WITH CITY OF LONDON STANDARD SPO-10.

CITY OF LONDON STANDARD DRAWING

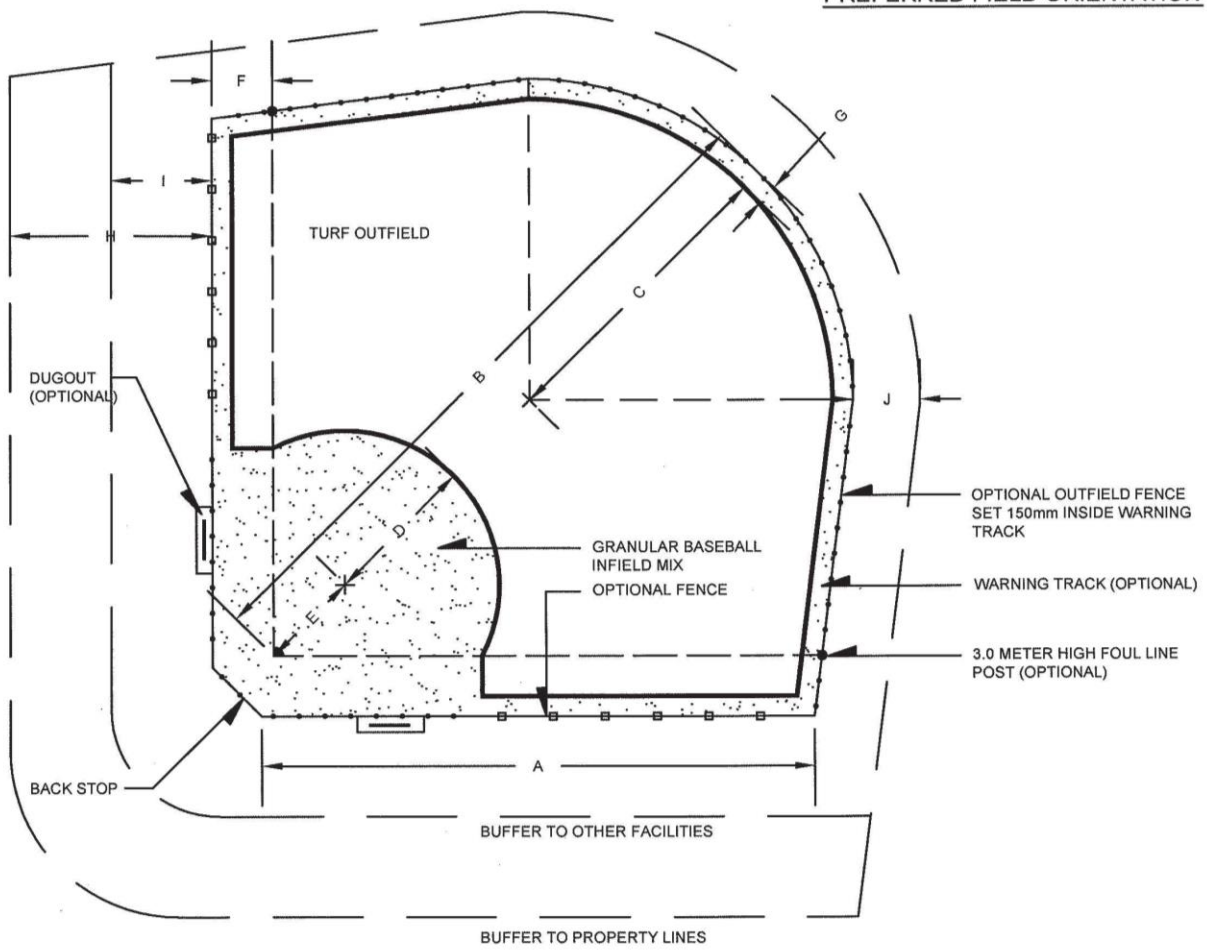
SOCCER PITCH GRADING

DWG	DATE	APPROVED BY
SPO-10.3	2005 11 01	PARKS PLANNING AND DESIGN

DIMENSION SCHEDULE										
	A	B	C	D	E	F	G	H	I	J
REGULATION BASEBALL DIAMOND	99	122	55	29	18	9	3	30*	15*	10*
PEE WEE BASEBALL DIAMOND	82	102	45	23	15	9	3	30*	15*	10*
MOSQUITO BASEBALL DIAMOND	61	75	33	17	11	6	3	22*	11*	7*



PREFERRED FIELD ORIENTATION



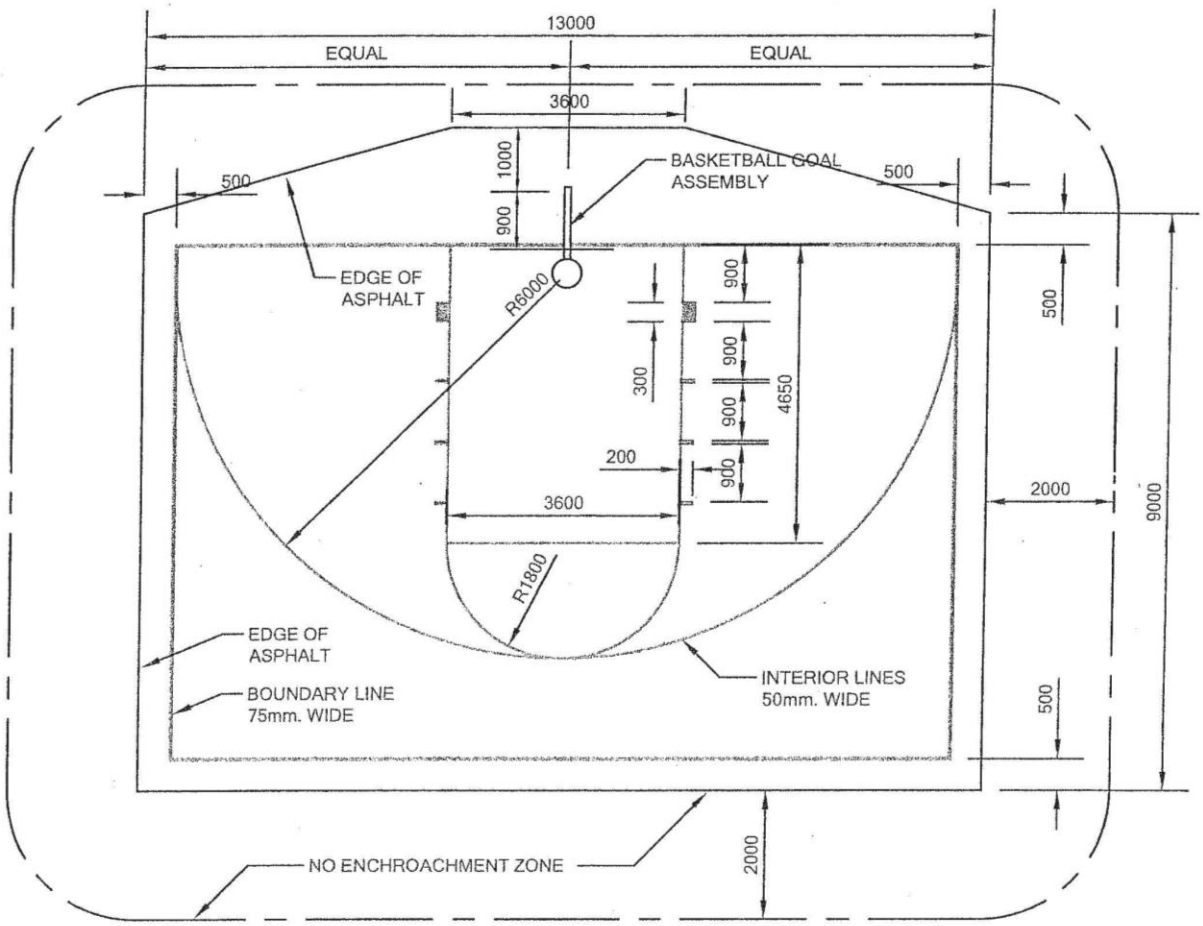
NOTES:

1. ALL MEASUREMENTS GIVEN IN METERS UNLESS OTHERWISE SPECIFIED.
2. REFER TO CITY OF LONDON STANDARD DRAWING SPO-11.4 FOR GRADING REQUIREMENTS.
3. TURF OUTFIELD SHALL BE IN ACCORDANCE WITH CITY OF LONDON STANDARD SPO-13.
*4. BUFFER DISTANCES MAY BE ALTERED DUE TO ON-SITE CONDITIONS AT THE DISCRETION AND APPROVAL OF THE CITY OF LONDON.

CITY OF LONDON STANDARD DRAWING

BASEBALL DIAMOND LAYOUT

DWG	DATE	APPROVED BY
SPO - 11.1	2011 09 02	PARKS PLANNING & DESIGN



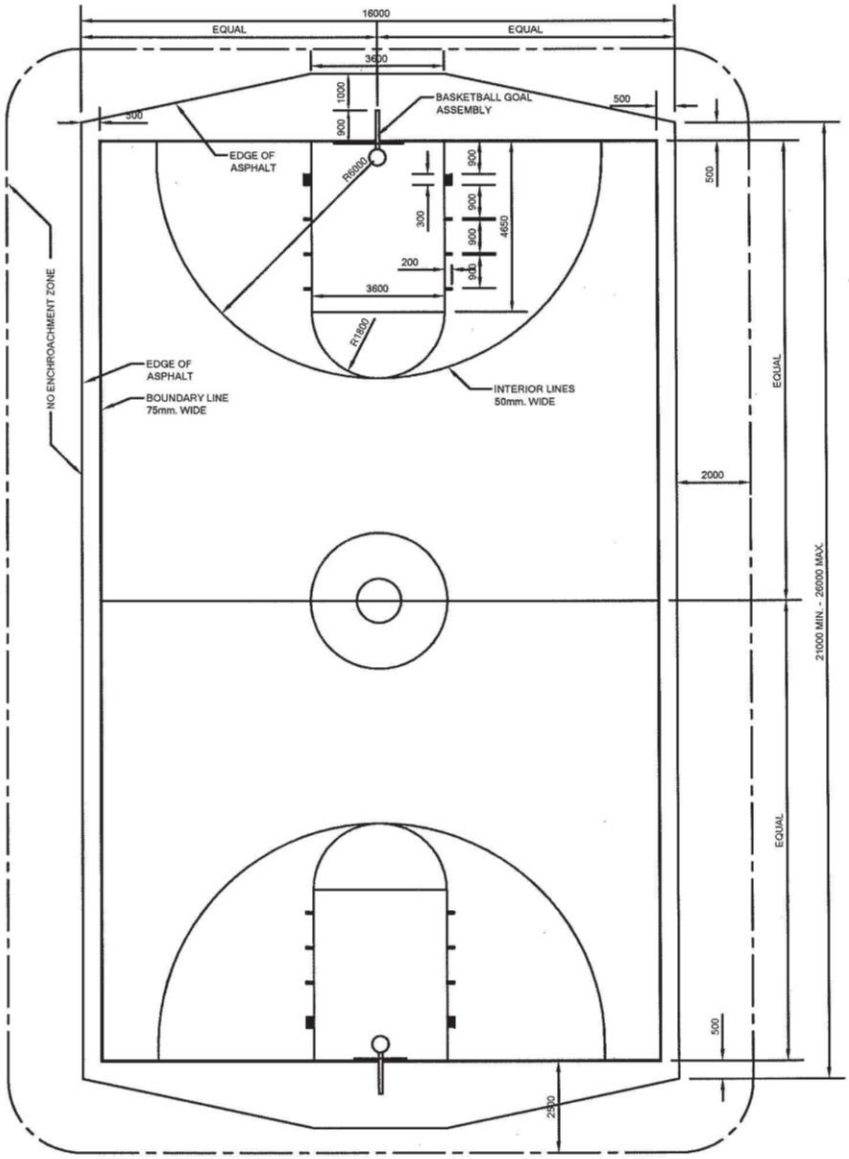
NOTES:

1. DETAIL TO BE USED IN CONJUNCTION WITH SPO–13.3 AND SPO–13.4.
2. NO STRUCTURES MAY BE SITUATED WITHIN THE 2000mm WIDE NO ENCROACHMENT ZONE.
3. ALL LINES TO BE 2 COATS OF WHITE TRAFFIC PAINT IN ACCORDANCE WITH O.P.S.S 532.
4. 1% MAXIMUM GRADE ACROSS ASPHALT COURT. 2% MAXIMUM GRADE ACROSS NO ENCROACHMENT ZONE.
5. ALL DIMENSTIONS ARE IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

HALF-COURT BASKETBALL LAYOUT

DWG	DATE	APPROVED BY
SPO - 13.1	2012 08 27	PARKS PLANNING & DESIGN



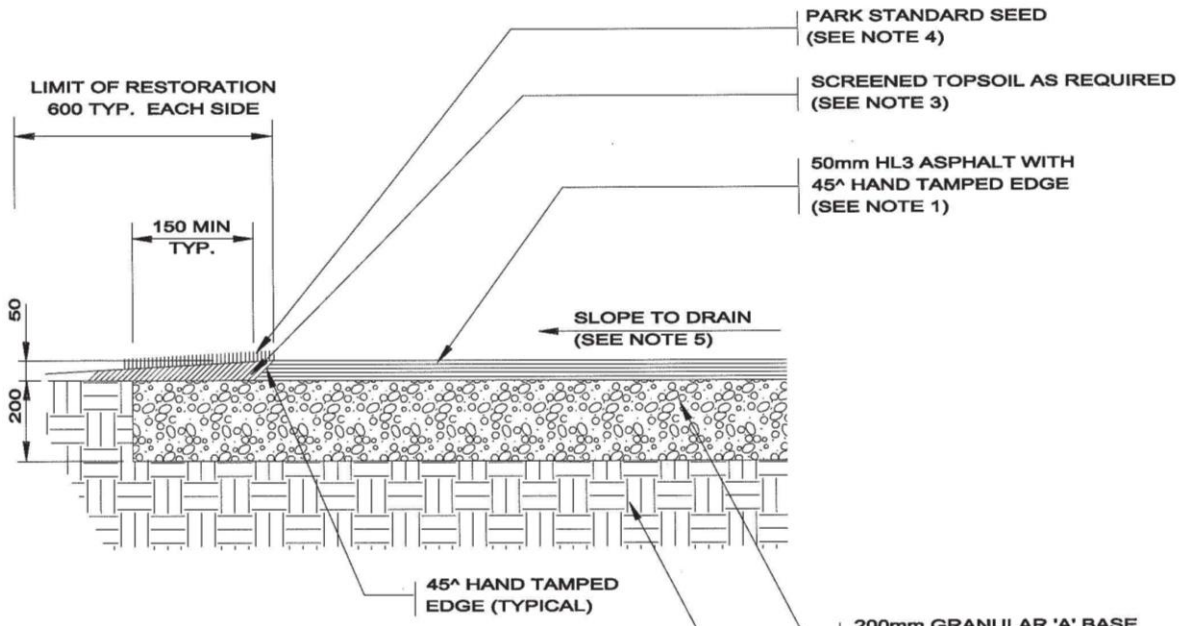
NOTES:

1. DETAIL TO BE USED IN CONJUNCTION WITH SPO–13.3 AND SPO–13.4.
2. NO STRUCTURES MAY BE SITUATED WITHIN THE 2000mm WIDE NO ENCROACHMENT ZONE.
3. ALL LINES TO BE 2 COATS OF WHITE TRAFFIC PAINT IN ACCORDANCE WITH O.P.S.S 532.
4. 1% MAXIMUM GRADE ACROSS ASPHALT COURT. 2% MAXIMUM GRADE ACROSS NO ENCROACHMENT ZONE.
5. ALL DIMENSTIONS ARE IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

FULL-COURT BASKETBALL LAYOUT

DWG	DATE	APPROVED BY
SPO - 13.2	2011 09 02	PARKS PLANNING & DESIGN



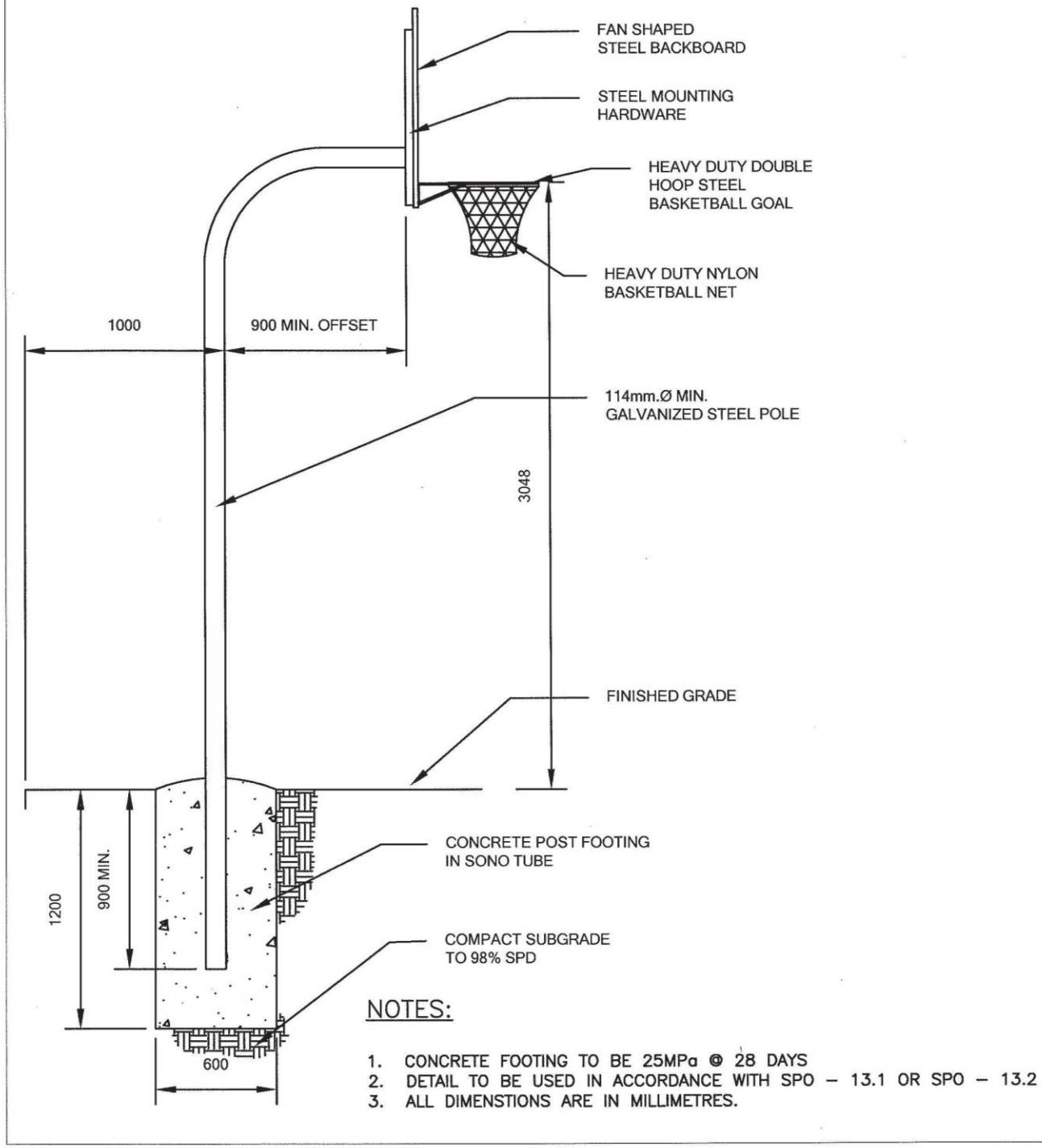
NOTES:

1. ASPHALT SURFACE TO BE ONE (1) 50mm LAYER (AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE WITH O.P.S.S. 310. ASPHALT EDGE TO BE 45^ HAND TAMPED SMOOTH EDGE WITHOUT LATERAL DEVIATIONS.
2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.
3. IMPORTED TOPSOIL SHALL CONSIST OF A LOOSE FRIABLE LOAM SOIL IN ACCORDANCE WITH CITY OF LONDON CONSTRUCTION SPECIFICATIONS FOR TOPSOIL.
4. PARK STANDARD SEEDING IN ACCORDANCE WITH CITY OF LONDON CONSTRUCTION SPECIFICATIONS FOR SEEDING AND COVER
5. FINISHED SLOPE ON BASKETBALL COURTS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS OR AS SPECIFIED BY THE PROJECT MANAGER
6. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

TYPICAL BASKETBALL COURT CROSS-SECTION

DWG	DATE	APPROVED BY
SPO - 13.3	2011 09 02	PARKS PLANNING & DESIGN



NOTES:

1. CONCRETE FOOTING TO BE 25MPa @ 28 DAYS
2. DETAIL TO BE USED IN ACCORDANCE WITH SPO – 13.1 OR SPO – 13.2
3. ALL DIMENSTIONS ARE IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

BASKETBALL GOAL ASSEMBLY

DWG	DATE	APPROVED BY
SPO - 13.4	2011 09 02	PARKS PLANNING & DESIGN