

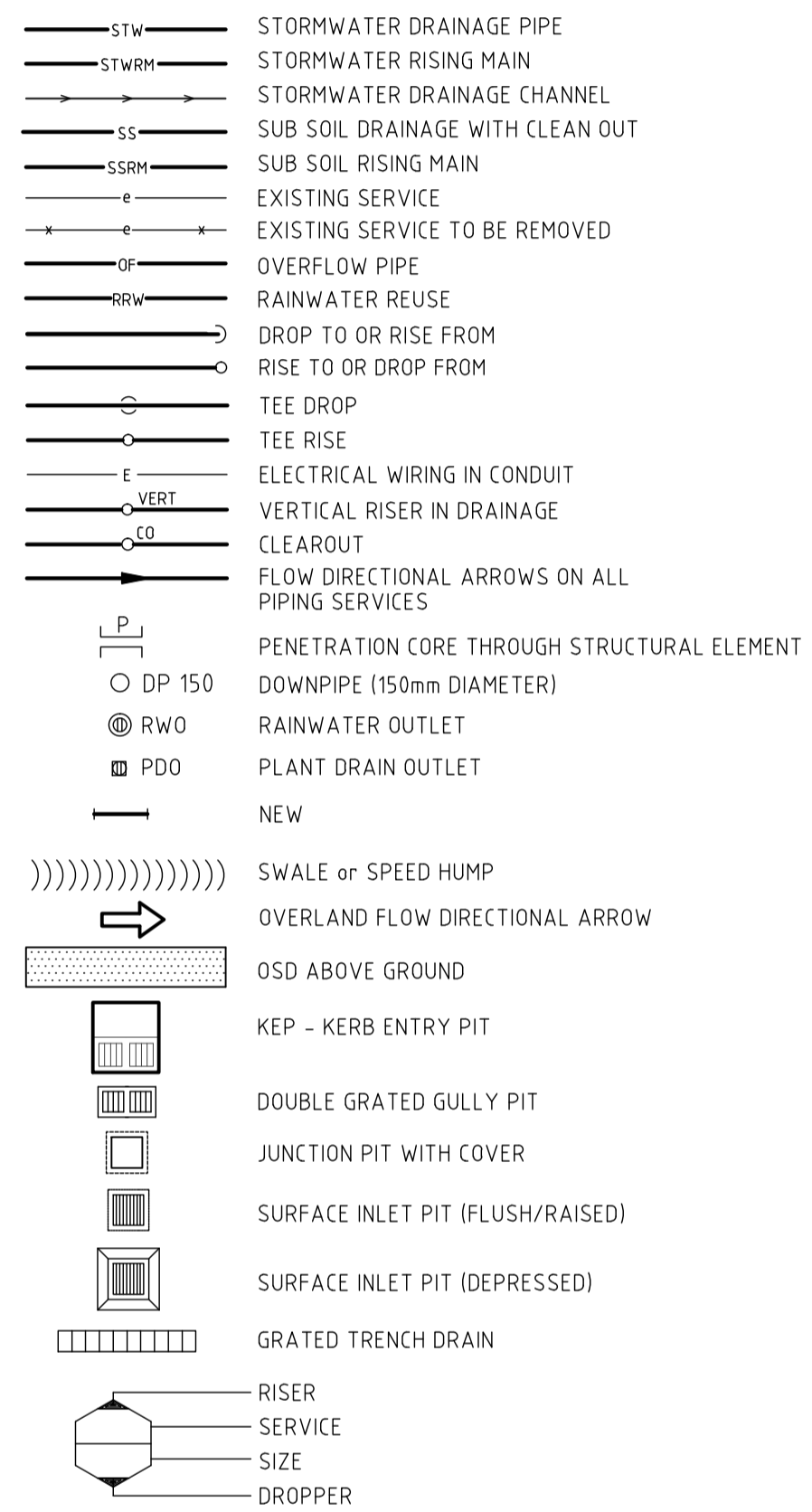
BANCOR

ATCHISON STREET, ST LEONARDS

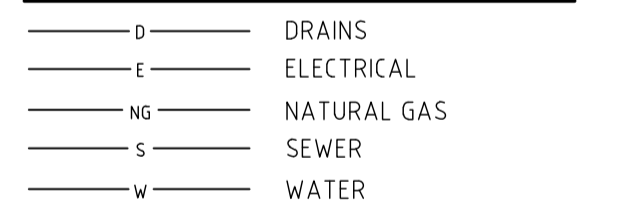
STORMWATER DRAINAGE CONCEPT PLAN

LEGEND

CIVIL DRAINAGE AND HYDRAULIC SERVICES SYMBOLS



SERVICES & UTILITIES SYMBOLS



NOTE:-
 'e' ON SERVICE LINE REPRESENTS EXISTING SERVICE OR THE USE OF LOWER CASE LETTER.
 'x' ON SERVICE LINE REPRESENTS SERVICE TO BE ABANDONED.

SECTION SYMBOL



GENERAL ABBREVIATIONS

CTS	CENTERS
CL	CENTRE LINE
DIA	DIAMETER
DMR	DEPARTMENT OF MAIN ROADS
DWG	DRAWING
Ex.	EXISTING
GALV	GALVANIZED
HD GALV	HOT DIPED GALVANIZED
ID	INTERNAL DIAMETER
L.O.C.	LIMIT OF CONTRACT
MAX	MAXIMUM
MIN	MINIMUM
NB	NOMINAL BORE
N.I.C.	NOT IN CONTRACT
No.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
REV	REVISION
RTA	ROADS AND TRAFFIC AUTHORITY
SQ	SQUARE
SRA	STATE RAIL AUTHORITY
STD	STANDARD
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL

CIVIL ABBREVIATIONS

DRAINAGE LEVELS	
BWL	BOTTOM WATER LEVEL
IL	INVERT LEVEL
OL	OBVERT LEVEL
SL	SURFACE LEVEL
TWL	TOP WATER LEVEL
GRATES & COVERS	
LD	LIGHT DUTY CLASS 'B'
MD	MEDIUM DUTY CLASS 'C'
HD	HEAVY DUTY CLASS 'D'
EHD	EXTRA HEAVY DUTY CLASS 'E'
MP	MULTI PART COVER OR GRATE
PIIS	
CDS	CDS TECHNOLOGIES
DCP	DISCHARGE CONTROL PIT
DGGP	DOUBLE GRATED GULLY PIT (CAST IRON)
GPT	GROSS POLLUTANT TRAP
JP	JUNCTION PIT
KEP	KERB ENTRY PIT
KEU	KERB ENTRY UNIT
MPC	MULTI PART COVER
MPG	MULTI PART GRATE
SWP	STORMWATER PIT
DRAINAGE LINES	
SS	SUBSOIL DRAINAGE
STRW	STORMWATER RISING MAIN
STW	STORMWATER DRAIN
GD	GRATED TRENCH DRAIN
FEATURES	
CO	CLEAROUT
DP	DOWN PIPE
FP	FLUSHING POINT
IO	INSPECTION OPENING
OF	GUTTER OVERFLOW PIPE
RO	RAINWATER OUTLET
DTU	DRAINAGE TURNUP
OSD	
OSD	ONSITE DETENTION
PSD	PERMISSIBLE SITE DISCHARGE
OPF	OVERFLOW PATH
SWMP	STORM WATER MANAGEMENT PLAN
ESCP	EROSION & SEDIMENT CONTROL PLAN

MATERIALS ABBREVIATIONS

Br	BRASS
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CP	CHROMIUM PLATED
Cu	COPPER
DICL	DUCTILE IRON CEMENT LINED
FRC	FIBRE REINFORCED CEMENT GALVANISED
GMS	MILD STEEL
MS	MILD STEEL
NY	NYLON
PE	POLYETHYLENE
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RHS	RECTANGULAR HOLLOW SECTION
SS	STAINLESS STEEL

LEVELS ABBREVIATIONS

CL	CEILING LEVEL
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
GL	EXISTING GROUND LEVEL
HL	HIGH LEVEL
HP	HIGH POINT
LL	LOW LEVEL
ML	MID LEVEL
NS	NATURAL SURFACE LEVEL
PL	PLATFORM LEVEL
RL	REDUCED LEVEL
US	UNDER SIDE
USFL	UNDERSIDE FLOOR

MISCELLANEOUS ABBREVIATIONS

A/C	AIR CONDITIONING
B/P	BELOW PLANTER
CIC	CAST IN COLUMN
CIS	CAST IN SLAB
FALL	PIPELINE FALL
GRD	GROUND
MPC	MULTI PART COVER
MPG	MULTI PART GRATE
PECP	PUMP ELECTRICAL CONTROL PANEL
DE	DIESEL EXHAUST

FLUID FLOW ABBREVIATIONS

FU	FIXTURE UNITS
kPa	PRESSURE IN KILOPASCALS
L/s	FLOW IN LITRES PER SECOND
LU	LOADING UNITS
m Head	PRESSURE IN METRES HEAD
m/s	VELOCITY OF FLOW IN METRES PER SECOND

CATCHMENT ABBREVIATIONS

A	CATCHMENT AREA
ARI	AVERAGE RECURRENCE INTERVAL
L/s	LITRES PER SECOND (VELOCITY)
m/s	METRES PER SECOND (VELOCITY)
CUMECs	CUBIC METRES PER SECOND
Q	QUANTITY OF FLOW

CALCULATIONS

INTERNAL DRAINAGE CALCULATIONS BASED ON THE FOLLOWING RAINFALL INTENSITIES

$$1:100\text{YR} = 207 \text{ mm/hr}$$

DRAWING LIST

H-100	Title Sheet, Legend and Drawing List
H-101	Basement Level B5 - Stormwater Drainage Plan
H-102	Basement Typical Levels B2-B4 - Stormwater Drainage Plan
H-103	Basement Loading Dock B1 - Stormwater Drainage Plan
H-104	Basement Mezzanine - Stormwater Drainage Plan
H-105	Ground Level Residential Entry (Lower) - Stormwater Drainage Plan
H-106	Ground Level Hotel (Upper) - Stormwater Drainage Plan
H-107	Hotel Level A - Stormwater Drainage Plan
H-108	Hotel Level B - Stormwater Drainage Plan
H-109	Hotel Level C - Stormwater Drainage Plan
H-110	Hotel Level D (Typical 1A Floor Plan) - Stormwater Drainage Plan
H-111	Typical Residential Type 1A (With Lift Overrun) - Stormwater Drainage Plan
H-112	Type 1D Plan - Stormwater Drainage Plan
H-113	Type 2D Plan - Stormwater Drainage Plan
H-114	Type 3C Plan - Stormwater Drainage Plan
H-115	Type 4E Plan - Stormwater Drainage Plan
H-116	Type 4E Penthouse Plan - Stormwater Drainage Plan
H-117	Roof Plan (Plant) - Stormwater Drainage Plan

No. 3532 011
 Plot Date: 25/03/2011 12:09:58 PM
 C:\Users\jmorehen\Documents\BANCOR\Atchison Street\DWG\3532 011.dwg
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Fig. QAC/RG1/0771

ISSUED FOR CONCEPT DESIGN

TITLE
TITLE SHEET, LEGEND & DRAWING LIST

DATE	March 2010	DRAWN BY	DN	APPROVED BY	WJS
JOB No.	3532	DRAWING No.	H-100	ISSUE	02

Plot Date: Friday, 25 March, 2011 12:09:58 PM