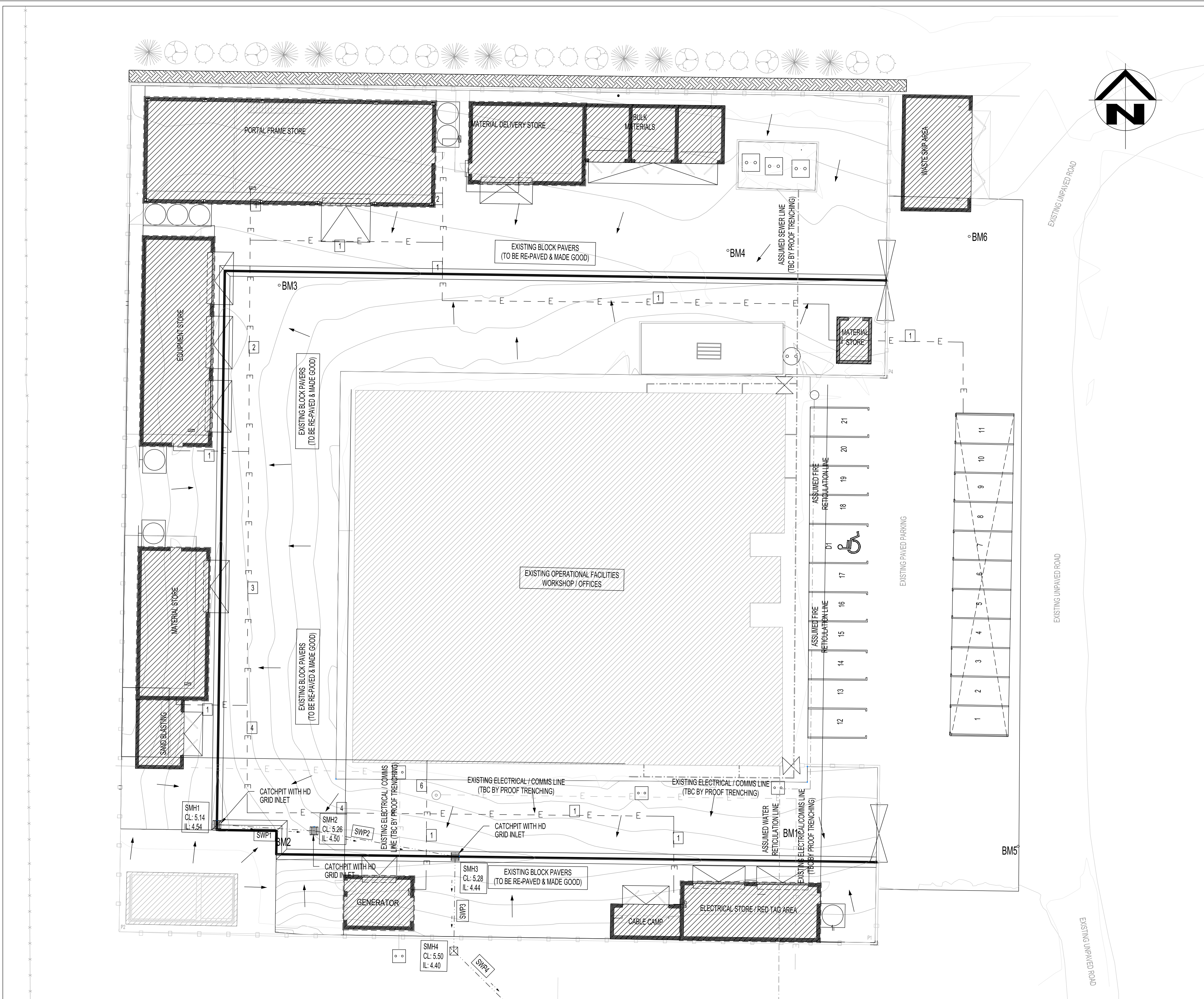




BAYVUE CIVIL DEPOT PLAN VIEW
SCALE 1:200

GENERAL NOTES

1. THE CONTRACTOR WILL BE DEEMED TO HAVE INSPECTED THE SITE AND BE IN AGREEMENT WITH THE WORKS REQUIRED AS PER THE TENDER DOCUMENTS, UNLESS ALTERNATIVE PROPOSALS WITH COST IMPLICATIONS ARE RECEIVED TOGETHER WITH THE TENDER DOCUMENTS. ALTERNATIVE PROPOSALS SUBMITTED DURING CONSTRUCTION SHALL BE ON A DESIGN AND CONSTRUCT BASIS, WITH THE DESIGN AT CONTRACTOR'S EXPENSE.
2. VARIATIONS DEEMED NECESSARY BY THE CONTRACTOR SHALL BE FORWARDED TO THE PROJECT MANAGER IN WRITING FOR APPROVAL BEFORE ANY CONSTRUCTION BASED ON THE VARIATION COMMENCES.
3. SERVICES SHOWN ON DRAWING ARE KNOWN OR SOURCED FROM EXISTING DRAWINGS. THE CONTRACTOR MUST ENSURE THAT ALL SERVICES THAT INTERSECT OR RUN ALONGSIDE THE PROPOSED WORKS ARE LOCATED BEFORE CONSTRUCTION COMMENCES. ANY CLASHES SHALL BE REPORTED TO THE PROJECT MANAGER IN WRITING. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES TO EXISTING SERVICES DUE TO NEGLIGENCE.
4. ALL EXISTING PIPES AND MANHOLES INCORPORATED INTO THE NEW SYSTEM SHALL HAVE DEFECTS RECTIFIED TO COMPLY TO STANDARDS FOR NEW WORKS.
5. ALL LEVELS AND DIMENSIONS SHALL BE CHECKED BEFORE ANY WORK COMMENCES. FAILURE TO DO SO SHALL DEEM THE CONTRACTOR LIABLE FOR ANY WORK REQUIRED TO RECTIFY ERRORS AS A RESULT OF THE FAILURE TO CHECK THE LEVELS AND DIMENSIONS.
6. THE LATEST REVISION OF SANS SPECIFICATIONS SHALL APPLY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH RELEVANT SANS SPECIFICATIONS, UNLESS OTHERWISE INDICATED.

STORMWATER PIPE DATA					
NAME	SIZE [mm]	MATERIAL & CLASS	LENGTH [m]	GRADE [%]	NODES
SWP1	300 Ø	CLASS 1000 CONCRETE PIPE	8.4	0.50	SMH1-SMH2
SWP2	300 Ø	CLASS 1000 CONCRETE PIPE	13.3	0.50	SMH2-SMH3
SWP3	300 Ø	CLASS 1000 CONCRETE PIPE	9.6	0.50	SMH3-SMH4
SWP4	300 Ø	CLASS 1000 CONCRETE PIPE	80.5	0.50	SMH4-SMH5
SWP5	300 Ø	CLASS 1000 CONCRETE PIPE	79.5	0.50	SMH5-REDUCER
SWP6	500 Ø	CLASS 1000 CONCRETE PIPE	1.0	0.50	REDUCER-SMH6

MANHOLE DATA (WGS84, Lo19)				
NAME	IL [m]	DESCRIPTION	NORTHING (Y)	EASTING (X)
SMH1	4.54	HD GRID INLET SW MANHOLE	-3652333.940	95677.491
SMH2	4.49	HD GRID INLET SW MANHOLE	-3652334.482	95669.141
SMH3	4.41	HD GRID INLET SW MANHOLE	-3652336.690	95657.024
SMH4	4.40	HD COVER SW MANHOLE	-3652344.807	95657.138
SMH5	4.00	HD COVER SW MANHOLE	-3652401.690	95599.517
SMH6	3.59	HD COVER SW MANHOLE	-3652458.574	95541.896



CONCRETE NOTES:

1. SCREED TO BE CLASS 20 / 19 CONCRETE.
2. BACKING CONCRETE MINIMUM CLASS 20 / 19 CONCRETE TO BE ROUGH-SHUTTER MECHANICAL VIBRATION.
3. CHANNEL: MINIMUM CLASS 20 / 19 CONSTRUCTED AFTER BACKING CONCRETE HAS SMOOTH FINISH AND R 10 ARRIS TO CORNERS.
4. ALL PRECAST KERBING SHALL HAVE CONTINUOUS IN-SITU BACKING CONCRETE.
5. WOOD FLOAT FINISH TO SURFACE OF 'V' CHANNEL.
6. CAST 'V' CHANNEL IN ALTERNATIVE SECTIONS OF 900 mm WIDTH AND LENGTHS NOT EXCEEDING 1.5m.
7. DETAILS TO BE READ IN CONJUNCTION WITH STANDARD ROADS DETAILS.

STORMWATER NOTES

1. TRENCHES FOR PIPES TO BE EXCAVATED AND BACKFILLED IN ACCORDANCE WITH THE REQUIREMENT OF SANS 1200 DB - PIPE TRENCHES.
2. ALL RC PIPES SHALL HAVE CLASS C BEDDING AND uPVC PIPES SHALL HAVE BEDDING FOR FLEXIBLE PIPES IN ACCORDANCE WITH SANS 1200 LB - BEDDING.
3. CONCRETE STORMWATER PIPES SHALL BE SPIGOT & SOCKET CLASS 1000 (SANS 677).
4. uPVC PIPES SHALL BE CLASS 34 TO SANS 791.
5. ALL CONCRETE PIPE JOINTS TO BE WRAPPED WITH 'A2 BIDIM' (NONWOVEN, CONTINUOUS FILAMENT, NEEDLE PUNCHED, POLYESTER, GEOTEXTILE) MIN. WIDTH TO BE 750mm FOR PIPES 3000 TO 6000.
6. NB! ALL MANHOLES COVERS TO SUIT CROSSFALL OF PAVING.

EARTHWORKS

1. ANY DISCREPANCIES IN LEVELS AND SETTING OUT DATA TO BE QUERIED WITH THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK.
2. ALL WORKMANSHIP TO BE IN ACCORDANCE WITH SANS 1200 PART D : EARTHWORKS AND THE RELEVANT PROJECT SPECIFICATIONS AS INCLUDED IN THE CONTRACT.
3. BEFORE PLACING ANY FILL MATERIAL, THE EXISTING GROUND SURFACE MUST BE CLEARED AND GRUBBED OF ALL VEGETATION AND ORGANIC MATTER.
4. TOPSOIL 200mm MUST BE STRIPPED AND STOCKPILED.
5. WHERE THE MATERIAL GROUND LINE IS STEEPER THAN 1:6, BENCHING MUST BE EXCAVATED INTO EXISTING SURFACE PRIOR TO RECEIVING FILL.
6. UNLESS OTHERWISE INDICATED, ALL BANK BATTERS TO BE : 1:2 CUT AND 1:2 FILL.
7. THE UNCOMPACTED THICKNESS OF FILL LAYERS SHALL NOT EXCEED 300mm
8. LOCATE ALL EXISTING SERVICES PRIOR TO ANY CONSTRUCTION TAKING PLACE.

ELECTRICAL AND COMMUNICATION NOTES

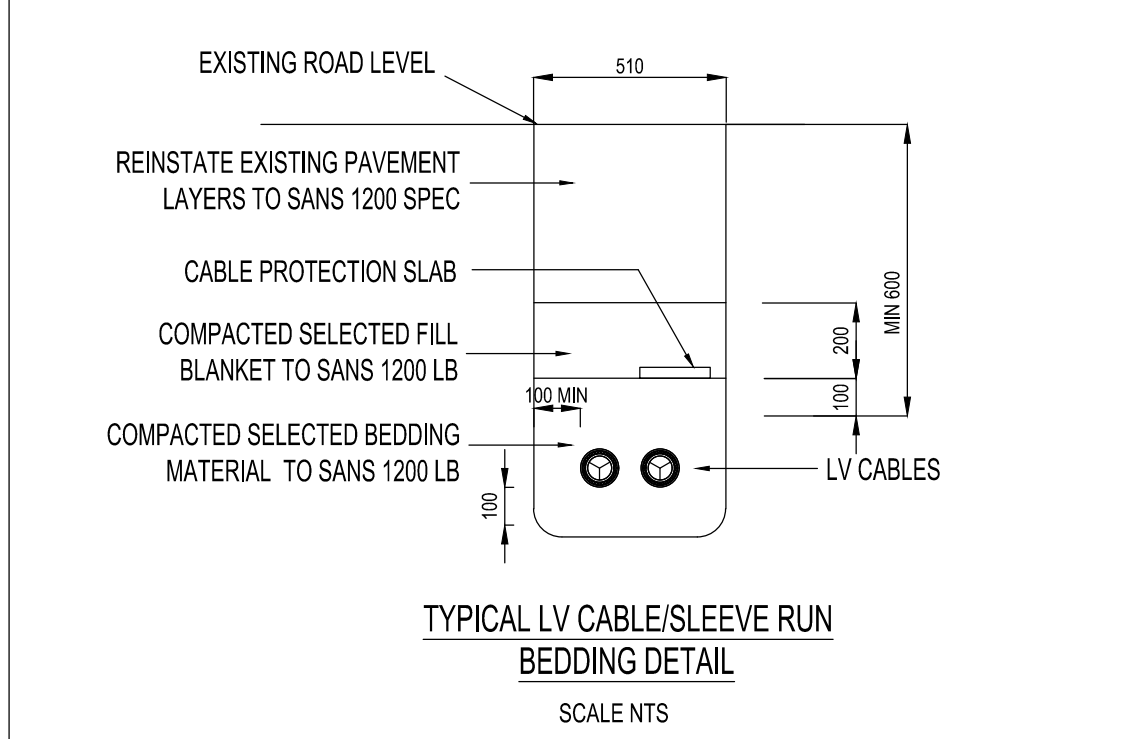
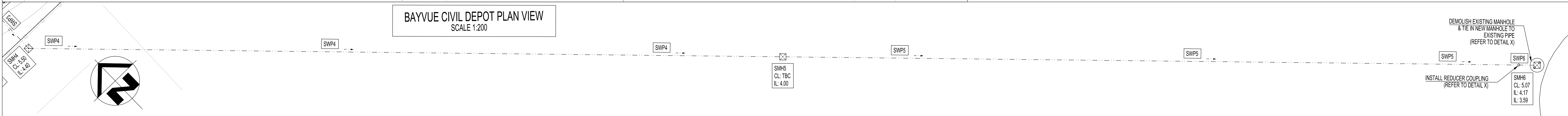
1. ALL DUCT PIPES SHALL COMPRISE uPVC PIPES TO SANS 791 (CLASS 34, HOMOGENOUS SOLID-WALL PIPES).
2. BEDDING OF DRAINS SHALL BE FOR FLEXIBLE PIPES, IN ACCORDANCE WITH SANS 1200 LB.
3. ALL DUCTS LESS THAN 800mm COVER TO BE CONCRETE ENCASED OR UNLESS OTHERWISE STATED BY THE ELECTRICAL ENGINEER.
4. NB. ALL MANHOLE COVERS TO SUIT CROSSFALL OF FINISHED PAVING.
5. THE CONTRACTOR SHALL SUBMIT A FULL SET OF AS-BUILT DRAWINGS UPON COMPLETION OF THE INSTALLATION.
6. ANY DISCREPANCIES IN LEVELS AND SETTING OUT DATA TO BE QUERIED WITH THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK.

LEGEND

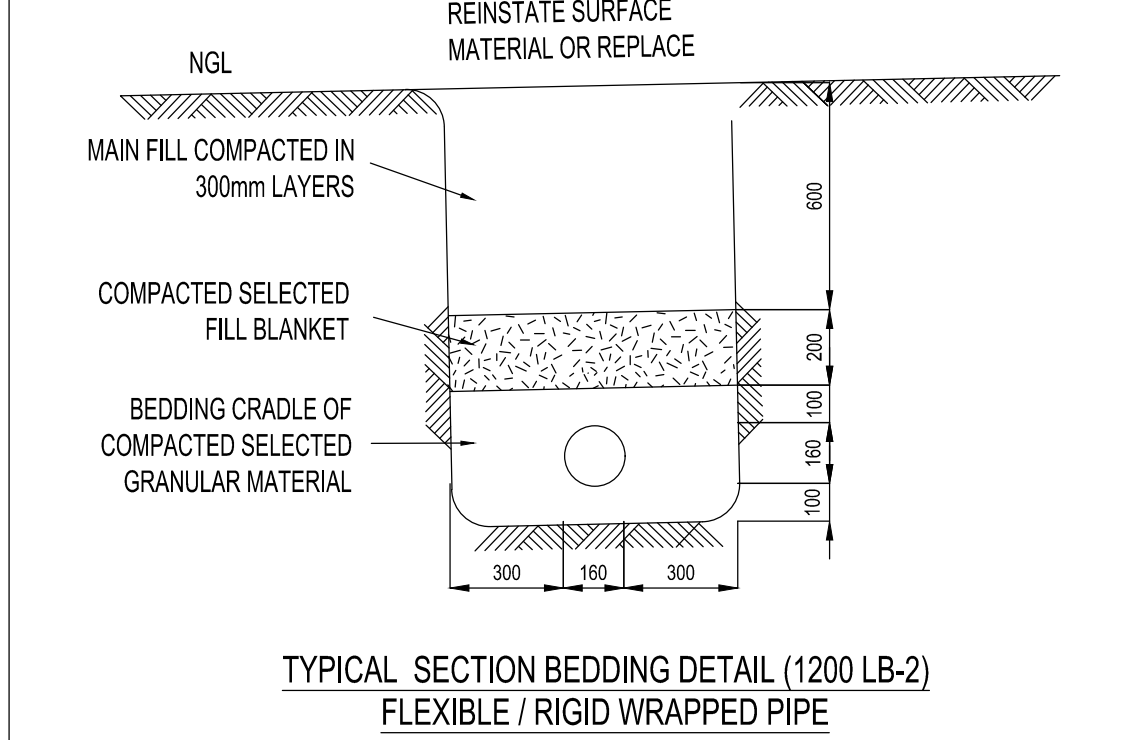
- PH EXISTING FIRE HYDRANT
- C EXISTING CABLE CHAMBER
- EXISTING BUILDING / STRUCTURE
- PROPOSED BUILDING / STRUCTURE
- EXISTING ELECTRICAL / COMMS MANHOLE
- 3 STORMWATER HARVESTING TANK
- STORMWATER MANHOLE
- STORMWATER MANHOLE (TYPE 8 GRATING)
- PROPOSED STORMWATER V-DRAIN CHANNEL
- DIRECTION OF STORMWATER FLOW
- DIRECTION OF SURFACE RUNOFF
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- EXISTING ELECTRICALS / COMMS CABLES
- PROPOSED ELECTRICALS CABLES
- EXISTING SEWER LINE
- EXISTING WATER MAINS
- EXISTING FIRE SUPPLY PIPING
- VEGETATION (EROSION PREVENTION)
- PROPOSED SOIL BERM
- PROPOSED CABLE CHAMBER
- NUMBER OF PROPOSED ELECTRICAL OR COMMS CABLES
- ELECTRICAL DISTRIBUTION BOARD

NOTES

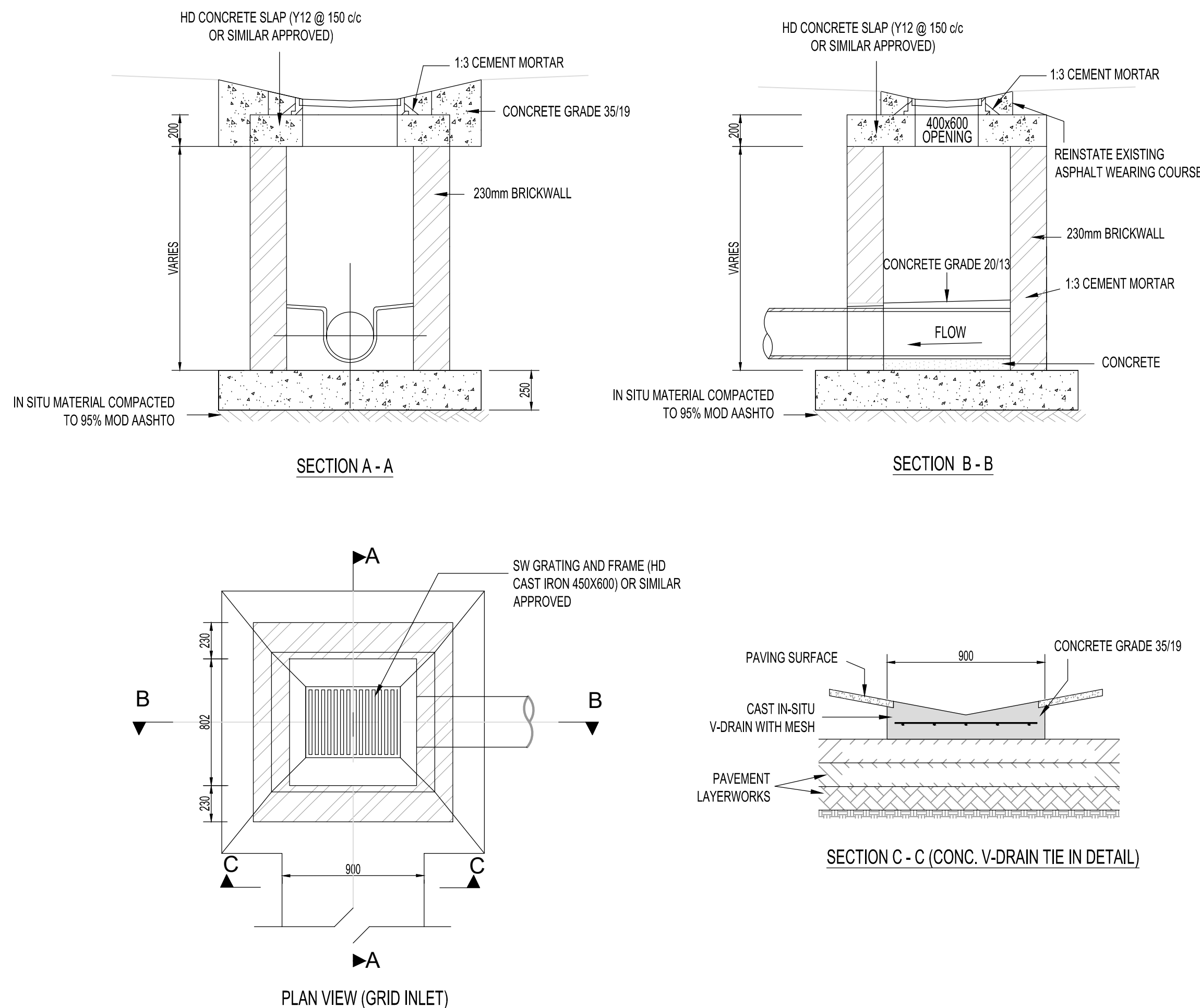
1. ALL CO-ORDINATES ARE BASED ON THE SOUTH AFRICAN CO-ORDINATE SYSTEM HARTEBEESSHOEK 94, WGS 84 Lo 19
2. MEASUREMENTS ARE BASED ON THE METRIC SYSTEM
3. ALL LEVELS ARE IN METERS TO MEAN SEA LEVEL (MSL)



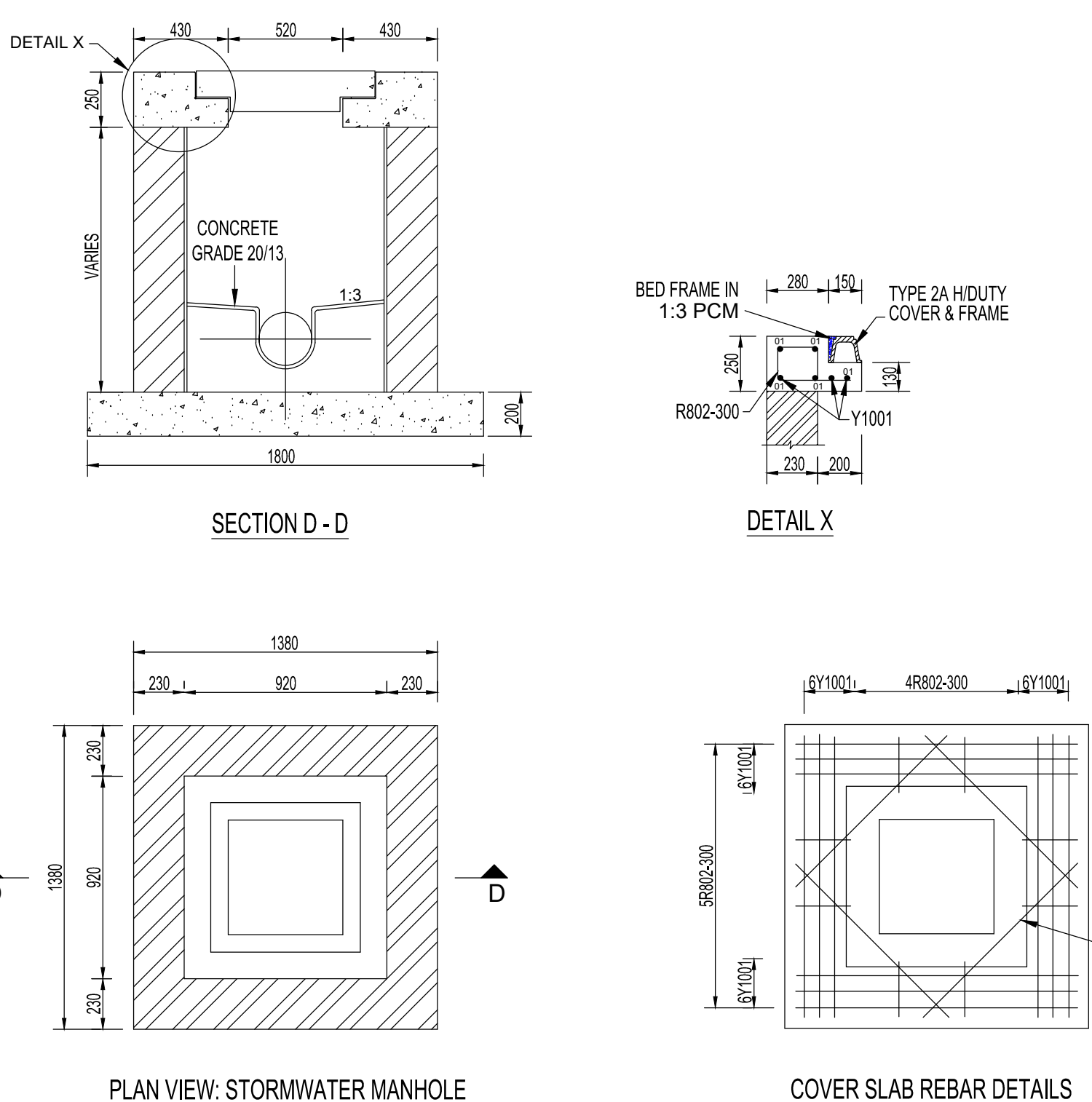
- NOTES:
1. THE CONTRACTOR SHALL CONFIRM ALL ELECTRICAL/COMMS SLEEVES TRENCH DEPTHS WITH THE ENGINEER PRIOR TO CONSTRUCTION.
 2. A MINIMUM DEPTH OF 600mm IS REQUIRED FOR ALL ELECTRICAL/COMMS SLEEVES.
 3. IN THE CASE THAT THE MINIMUM DEPTH CANNOT BE ACHIEVED, THE SLEEVES SHALL BE CONCRETE ENCASED UNLESS OTHERWISE STATED BY THE ENGINEER.



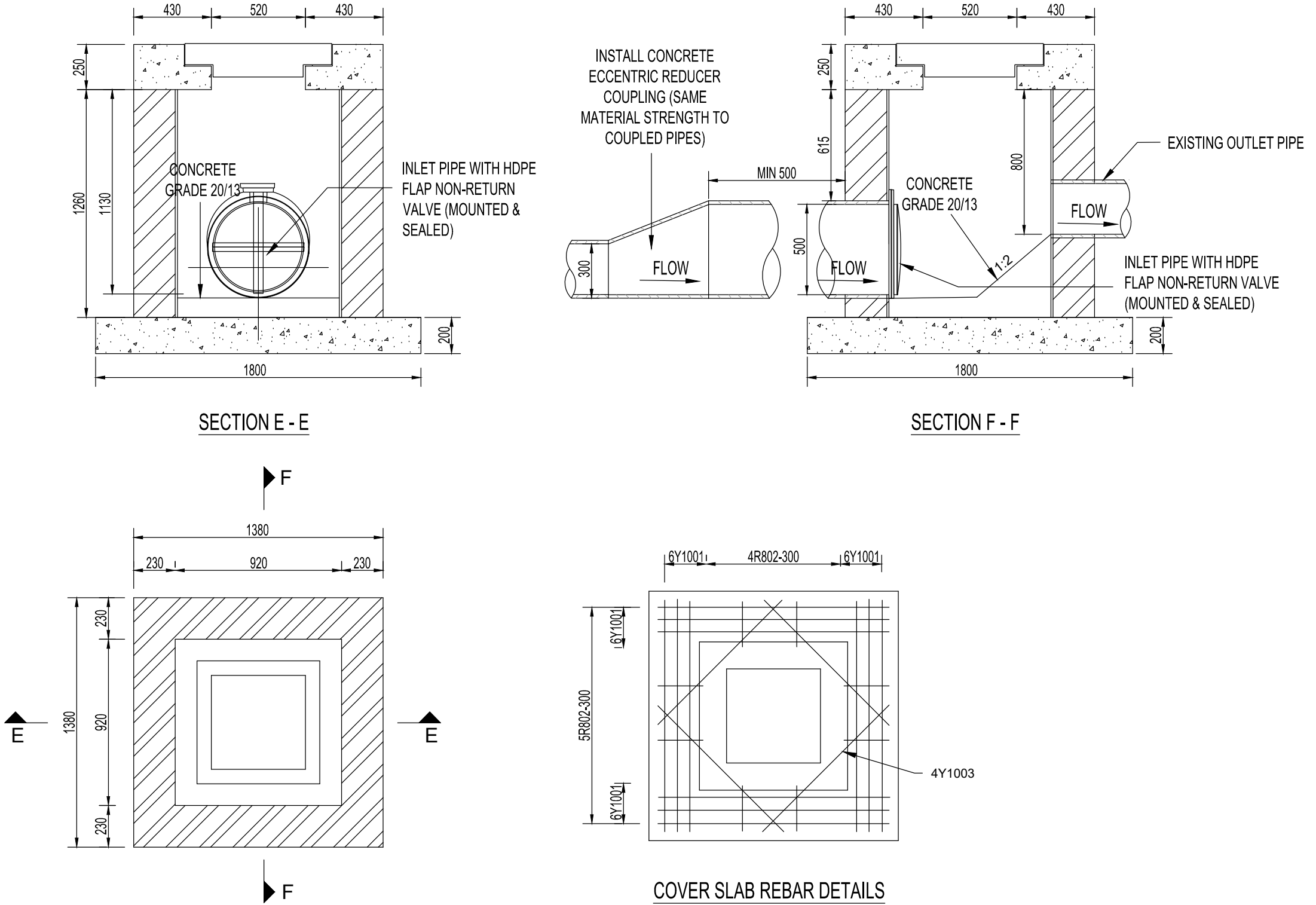
DETAIL A: BEDDING & TRENCHES
SCALE NTS



DETAIL B: SW GRID INLET MANHOLE DETAILS
SCALE 1:50



DETAIL C: SW HD COVER MANHOLE DETAILS
SCALE 1:50



DETAIL D: SW TIE-IN MANHOLE DETAILS
SCALE 1:50

ADDITIONAL SIGNATORIES

SIGNATURE	DATE	SIGNATURE	DATE

FOR APPROVAL

E	RE-ISSUED FOR TENDER	2026-08-24
D	ISSUED FOR TENDER	2023-03-03
C	ISSUED FOR SQUAD CHECK	2023-08-02
B	ISSUED FOR CLIENT APPROVAL	2022-02-01
A	ISSUED FOR CLIENT REVIEW	2021-11-10

No.	DESCRIPTION / REVISIONS	DATE



PROJECT / AREA / ASSET / SUBJECT

PORT OF SALDANHA
OPERATIONAL FACILITY FOR INFRASTRUCTURE MAINTENANCE

DRAWING TITLE
BULK SERVICES LAYOUT: STORMWATER AND ELECTRICAL

DATE	2026-08-21	SW: PROJ TECH: TECHN	DATE	24/08/2026
SCALE	A3 SHOWN	SW: DESIGNER	SIGNATURE	DATE
DESIGNED BY	MT	SW: ENGINEER	SIGNATURE	DATE
CHECKED BY	AP	SW: SUPERVISOR	SIGNATURE	DATE
DRAWN BY	MT	SW: CHECKER	SIGNATURE	DATE
APPROVED BY	MM	SW: APPROVER	SIGNATURE	DATE
PAPER SIZE	A0	TRANSET DRW. NO.	SHEET	REV.
SHEET	1 OF 1	SBH07T1003-001-03	CONSULTANT / CONTRACTOR DRW. NO.	