

A

B

C

D

E

F

A

B

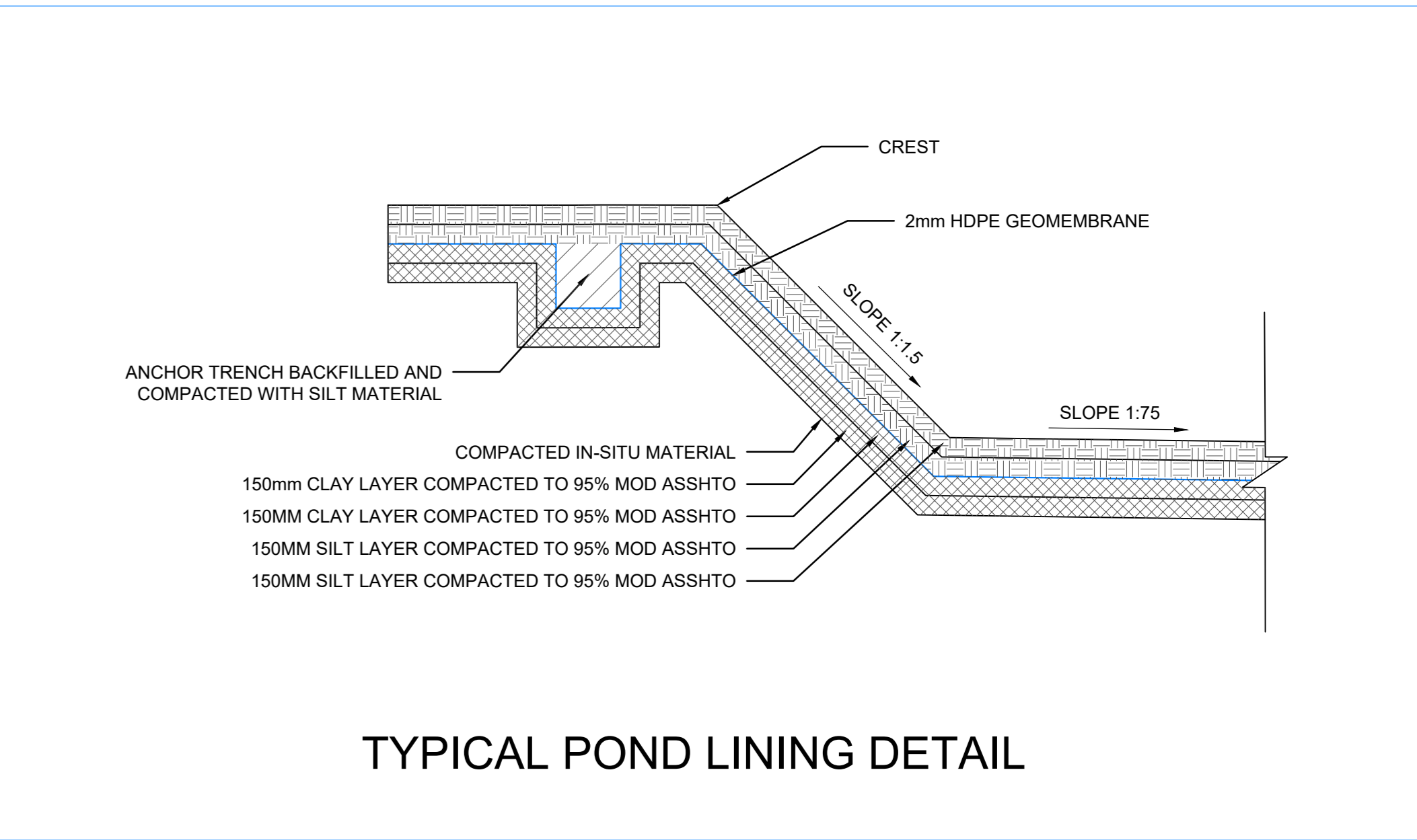
C

D

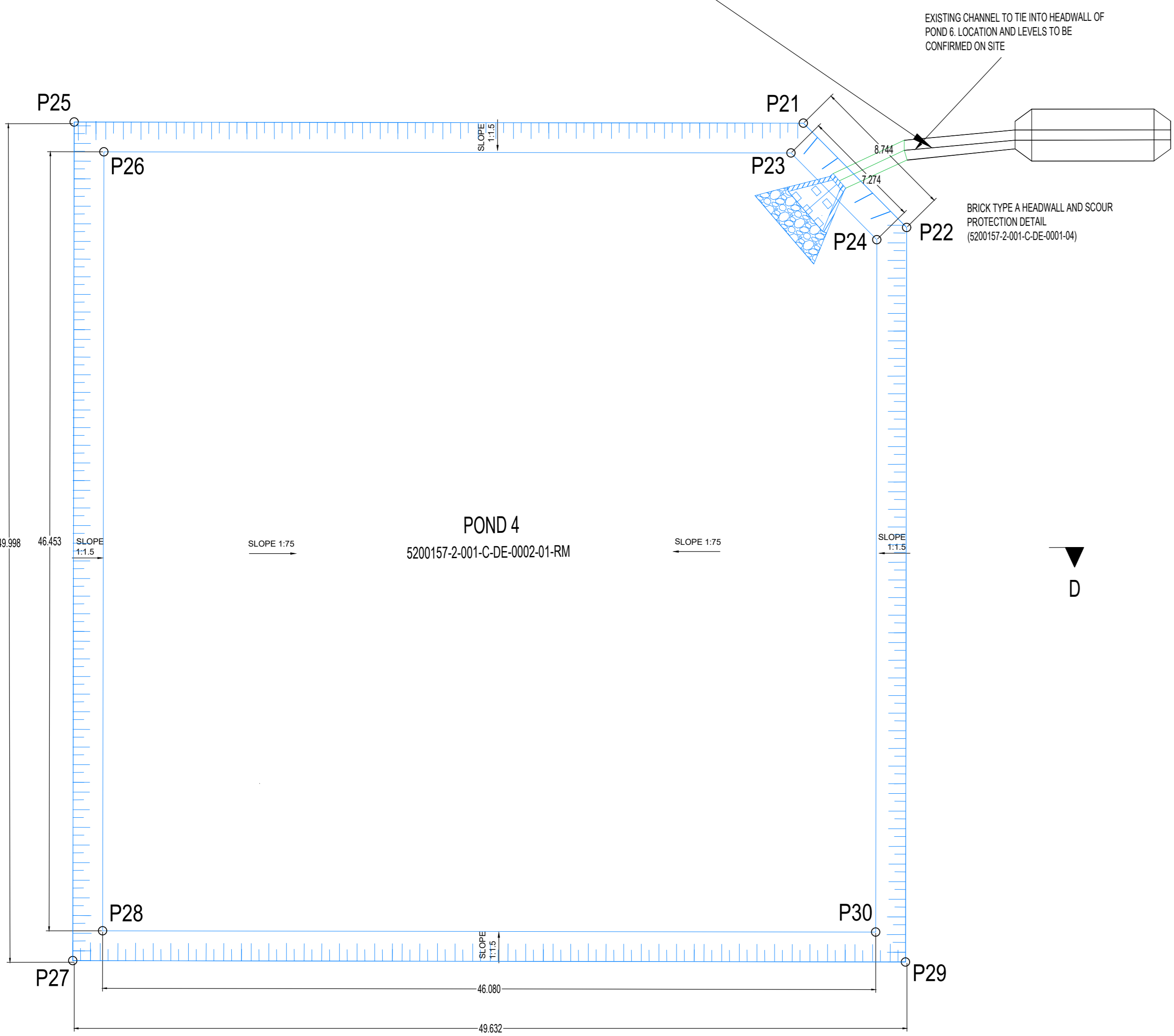
E

F

EX CHANNEL TIED INTO UPGRADED
POND 4 HEADWALL (PROOFING OF
SERVICES REQUIRED FOR EXACT
POSITIONING)

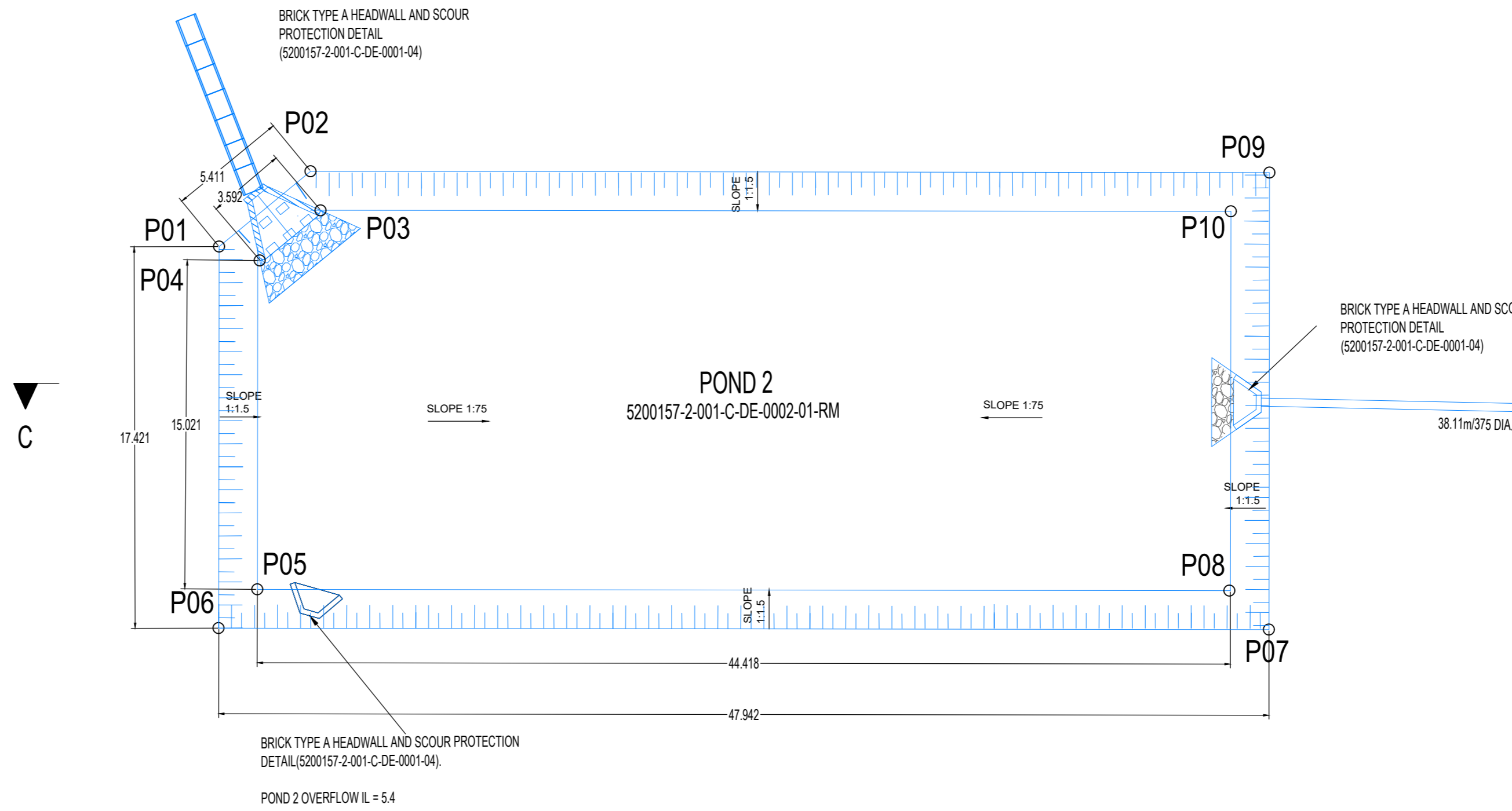


TYPICAL POND LINING DETAIL

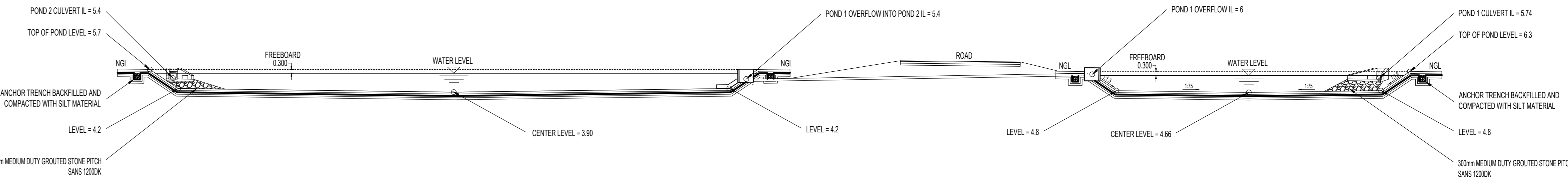
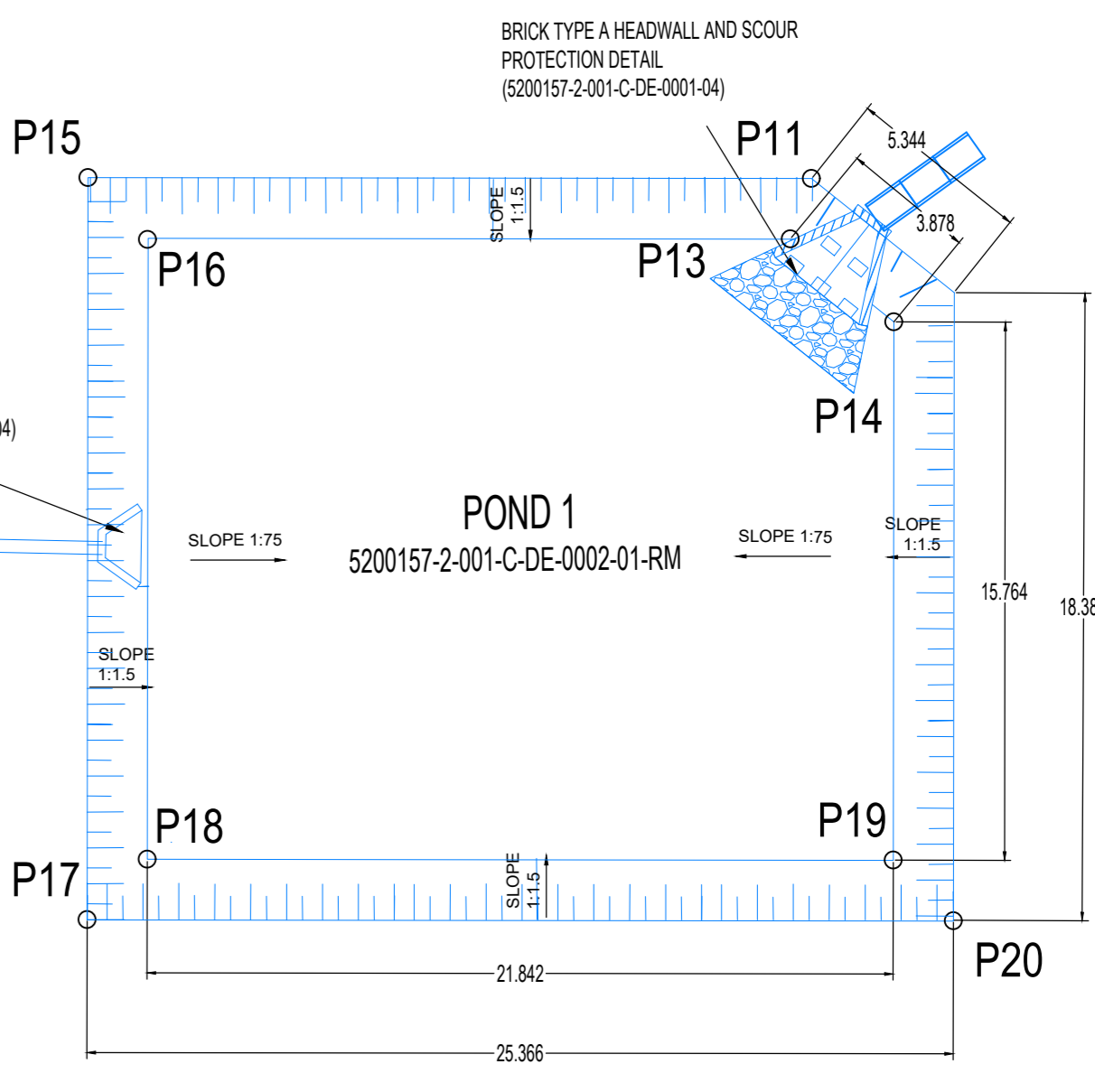


POND 4 SECTION D-D
SCALE 1:200

TIPLER POND SETTING OUT COORDINATES			
Point No	X	Y	Point ID
42001	1488	3653175.524	P01
42002	1493	3653175.544	P02
42003	1498	3653171.013	P03
42004	1503	3653174.487	P04
42005	1508	3653179.433	P05
42006	1513	3653181.700	P06
42007	1518	3653176.381	P07
42008	1523	3653157.483	P08
42009	1528	3653159.888	P09
42010	1533	3653151.460	P10
42011	1538	3653184.507	P11
42012	1543	3653188.690	P12
42013	1548	3653188.698	P13
42014	1553	3653189.625	P14
42015	1558	3653194.632	P15
42016	1563	3653193.650	P16
42017	1568	3653112.565	P17
42018	1573	3653159.888	P18
42019	1578	3653189.218	P19
42020	1583	3653188.171	P20
42021	1588	3653188.542	P21
42022	1593	3653110.759	P22
42023	1598	3653115.825	P23
42024	1603	3653189.348	P24
42025	1608	3653161.351	P25
42026	1613	3653162.375	P26
42027	1618	3653165.937	P27
42028	1623	3653166.191	P28
42029	1628	3653116.932	P29
42030	1633	3653121.653	P30



POND 1 AND 2 SECTION C-C
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. DIMENSIONS SHOWN ON DRAWINGS SHALL TAKE PREFERENCE OVER DIMENSIONS SCALED.
 6. 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.
 7. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS, UNLESS OTHERWISE INDICATED.
 8. THE LATEST REVISION OF SANS SPECIFICATIONS SHALL APPLY. ALL WORK SHALL BE DONE IN ACCORDANCE WITH RELEVANT SANS SPECIFICATIONS, UNLESS OTHERWISE INDICATED.
 9. ALL LENGTHS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED ON SITE BY CONTRACTOR.

- STORMWATER NOTES
1. TRENCHES FOR PIPES TO BE EXCAVATED AND BACKFILLED IN ACCORDANCE WITH THE REQUIREMENT OF SANS 1200 DB - PIPE TRENCHES.
 2. ALL RIGID CONCRETE PIPES SHALL HAVE CLASS B BEDDING UNLESS STATED OTHERWISE.
 3. FOR STORMWATER, PIPES SHALL BE SPIGOT & SOCKET CLASS 1000 (SANS 971).
 4. ALL CONCRETE PIPE JOINTS TO BE WRAPPED WITH 12 BIDM (NONWOVEN CONTINUOUS FILAMENT NEEDLE PUNCHED POLYESTER) GUTTED 1.5 MIN. WIDTH TO BE 750mm FOR PIPES 3000 TO 6000.
 5. NB: ALL MANHOLE COVERS TO SUIT CROSSFALL OF FINISHED PAVING.
 6. ON COMPLETION, THE INSTALLATION SHALL BE TESTED TO THE ENGINEER'S SPECIFICATION.
 7. THE CONTRACTOR SHALL SUBMIT A FULL SET OF AS-BUILT DRAWINGS UPON COMPLETION OF THE INSTALLATION.
 8. ALL EXISTING STORMWATER PIPES, MANHOLES, CHANNELS AND ANY OTHER STORMWATER INFRASTRUCTURE TO BE CLEANED AND CLEARED OF ALL DEBRIS BEFORE ANY WORK COMMENCES. ALL DAMAGED EXISTING STORMWATER INFRASTRUCTURE SHALL BE REINSTATED TO ORIGINAL CONDITION.
 9. ANY DISCREPANCIES IN LEVELS AND SETTING OUT DATA TO BE QUERIED WITH THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK.
 10. ALL EXISTING STORMWATER PIPES ARE CONCRETE UNLESS STATED OTHERWISE.
 11. WHERE MINIMUM COVER OF 1000mm FOR OPERATIONAL AREAS & 600mm FOR NON OPERATIONAL AREA CANNOT BE ACHIEVED, CONCRETE ENCASEMENT IS REQUIRED AS PER THE DETAIL DRAWINGS.

PLAN AND CROSS SECTION OF POND 1, POND 2 AND POND 4
SCALE: 1:200

NOTES:
a. MEASUREMENTS ARE BASED ON METRIC SYSTEM.
b. ALL LEVELS ARE IN METERS TO MEAN SEA LEVELS (MSL).
c. DO NOT SCALE DRAWING - ONLY DIMENSIONS SHOWN TO BE USED.
d. THE CONTRACTOR SHALL VERIFY ALL SERVICES OR CONDITIONS ON THE SITE AND NOTIFY THE ENGINEERING OF ANY VARIATIONS FROM DIMENSIONS BEFORE CONSTRUCTION.

REFERENCE DRAWINGS

CONTRACTOR / CONSULTANT

TRANSNET PORT TERMINALS

OPERATING DIVISIONS

REVISIONS

TRANSNET Port Terminals

PORT OF SALDANHA

TIPLER AREA

POND 1, POND 2 AND POND 4

DETAILS