ALL NEW ZEALAND LOCATIONS

STRUCTURAL WORKS - GENERIC DESIGN

CONTRACTOR AND TANK OWNER TO ENSURE TANKS ARE PLACED IN A POSITION THAT WILL NOT EXCEED: PAIR OF AXLE LOADS OF 120kN EACH. TRAFFIC COUNT LESS THAN 100 VEHICLES PER DAY & LOW SPEED ZONES.

| JOB No. | DWG No. | TITLE | REV | DATE | DESCRIPTION |
|---------|---------|--|-----|------------|---------------------|
| DT-02 | CS-01 | DRAWING SCHEDULE | 3 | 30/09/2023 | REVISED FOR CONSENT |
| DT-02 | CS-02 | STANDARD NOTES AND DETAILS (DURABILITY ZONE D) | 1 | 5/12/2021 | FOR CONSENT |
| DT-02 | CS-03 | TWO TANKS SIDE BY SIDE UNDER COMMERCIAL DRIVEWAY - NON EXPANSIVE SOILS | 3 | 31/08/2023 | REVISED FOR CONSENT |
| DT-02 | CS-04 | TWO TANKS SIDE BY SIDE UNDER COMMERCIAL DRIVEWAY - NON EXPANSIVE SOILS WITH GROUND ANCHORS | 3 | 31/08/2023 | REVISED FOR CONSENT |
| DT-02 | CS-05 | TWO TANKS SIDE BY SIDE UNDER COMMERCIAL DRIVEWAY - EXPANSIVE SOILS UP TO CLASS 'M' | 3 | 31/08/2023 | REVISED FOR CONSENT |
| DT-02 | CS-06 | TWO TANKS SIDE BY SIDE UNDER COMMERCIAL DRIVEWAY - EXPANSIVE SOILS UP TO CLASS 'M' WITH GROUND ANCHORS | 3 | 31/08/2023 | REVISED FOR CONSENT |
| DT-02 | CS-07 | TWO TANKS SIDE BY SIDE UNDER COMMERCIAL DRIVEWAY - EXPANSIVE SOILS CLASS 'H2' | 1 | 30/09/2023 | FOR CONSENT |
| DT-02 | CS-08 | TWO TANKS SIDE BY SIDE UNDER COMMERCIAL DRIVEWAY - EXPANSIVE SOILS CLASS 'H2' WITH GROUND ANCHORS | 1 | 30/09/2023 | FOR CONSENT |

UNDER COMMERCIAL DRIVEWAY, TWO TANKS SIDE BY SIDE INSTALLATION OF APD TANKS - MAX AXLE LOAD 120kN. ALL NEW ZEALAND LOCATIONS

NOTES:

CONTRACTOR TO CONFIRM ALL LEVELS AND DIMENSIONS AND LOCATE AND MARK ALL SERVICES & DRAINS ON SITE BEFORE COMMENCING WORK

CONTRACTOR TO FOLLOW MATERIAL SPECIFICATION AND LIMITS OF LOCATION WITH RELATION TO STRUCTURES AND RETAINING WALLS

CONTRACTOR TO NOTIFY A CHARTERED PROFESSIONAL ENGINEER IF ANY OF THE DESIGN REQUIREMENTS OUTLINED IN THIS DRAWING PACKAGE ARE NOT ACHIEVEABLE

MAXIMUM BURIED COVER DEPTH OVER TOP OF TANKS:

1200mm DIA - MAX. BURIED COVER IS 900mm, OF 1200mm FOR TANK WITH REINFORCED ENDS STANDARD RISER 650mm, CAN BE EXTENDED TO HIGHER ON REQUEST. 645mm, 800mm, 1000mm DIA - MAX. BURIED COVER IS 900mm. STANDARD RISER 350mm, CAN BE EXTENDED ON REQUEST.

IF YOU NEED TO BURY YOUR TANK DEEPER THAN ABOVE PLEASE CONTACT APD LTD FOR OTHER OPTIONS

DEFINITIONS: UNO - UNLESS NOTED OTHERWISE

REFER TO STRUCTURAL SPECIFICATION SHEET FOR CONCRETE REINFORCING AND OTHER NOTES

SLAB DESIGNED FOR HN LOADS AS PER NZTA BRIDGE MANUAL SP/M/022 2014 SECTION 3.2 AND D1:

CONTRACTOR AND TANK OWNER TO ENSURE TANKS ARE PLACED IN A POSITION THAT WILL NOT EXCEED: PAIR OF AXLE LOADS OF 120kN EACH. TRAFFIC COUNT LESS THAN 100 VEHICLES PER DAY & LOW SPEED ZONES.

| REVISED FOR CONSENT | 30-09-23 | 3 |
|---------------------|----------|------|
| REVISED FOR CONSENT | 03-08-23 | 2 |
| FOR CONSENT | 05-12-21 | 1 |
| REVISION: | DATE: | No.: |

UNDER COMMERCIAL DRIVEWAY, TWO TANKS SIDE BY SIDE (AXLE LOAD 120kN OR LESS) INSTALLATION OF APD TANKS ADDRESS: ALL NEW ZEALAND LOCATIONS

DRAWING SCHEDULE

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|--|---------------|-------------------|--|--|--|--|--|--|
| ORIGINAL SI | HEET SIZE: A3 | JOB No: DT-02 | | | | | | |
| DRAWN: | RCE | DRAWING NO: CS-01 | | | | | | |
| DATE: | OCT 2021 | | | | | | | |
| DESIGN: | AG | REVISION NO: 2 | | | | | | |
| CHECKED: | | SCALE: NTS NTS | | | | | | |
| New Zeal | ighlins Road, | Wiri, Auckland, | | | | | | |

STANDARD NOTES:

DURABILITY ZONE D (NZS3604

GENERAL:

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL GEOTECHNICAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK

ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE ENGINEERS DRAWINGS SHALL NOT BE SCALED.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE STRUCTURE UNTIL ITS COMPLETION AND SHALL ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED BY EXCESSIVE LOADING

WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT NEW ZEALAND STANDARDS AND LOCAL AUTHORITY REGULATIONS, EXCEPT WHERE VARIED IN CONTRACT DOCUMENTS.

THE LOCATION. SIZE, AND DETAILS OF ALL PENETRATIONS, HOLES, ETC IN STRUCTURAL MEMBERS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION UNLESS OTHERWISE SHOWN ON STRUCTURAL DRAWINGS

SUBSTITUTION FOR OR AMENDMENT OF SPECIFIED DETAILS OR MATERIALS SHALL NOT BE CARRIED OUT WITHOUT THE APPROVAL OF THE ENGINEER.

CONCRETE

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH NZS 3101:2006

NO HOLES CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE APPROVAL OF THE ENGINEER.

CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.

ALL CONCRETE TO BE MECHANICALLY VIBRATED AND CAREFULLY WORKED AROUND THE REINFORCEMENT AND INTO THE CORNERS OF THE FORMWORK

MINIMUM COMPRESSIVE STRENGTHS OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

| ELEMENT | GRADE(MPa) |
|----------------|------------|
| SITE CONCRETE | 17.5 |
| SLAB ON GRADE | 30 |
| SUSPENDED SLAB | 30 |

ALL CONCRETE IS TO HAVE 15 x 15 CHAMFER TO ALL EXPOSED EDGES UNLESS NOTED OTHERWISE

FINISHES TO CONCRETE TO BE IN ACCORDANCE WITH NZS 3114.

WATER / CEMENT RATIOS FOR CONCRETE USED IN SLABS ON GRADE SHALL NOT EXCEED 0.45.

REINFORCEMENT:

ALL REINFORCEMENT SHALL CONFORM TO AS/NZS 4671. ALL HOOK BARS AND BENDS SHALL BE MADE WITHOUT FRACTURE IN ACCORDANCE TO NZS 3101. GRADE 300 BARS MAY BE BENT ONCE ONLY

ALL REINFORCEMENT SHALL BE AS FOLLOWS:

| SYMBOL | TYPE - TO AS/NZS 4671 |
|--------|----------------------------------|
| R | PLAIN BARS GRADE 300 MPa |
| D | DEFORMED BARS GRADE 300 MPa |
| HD | DEFORMED BARS GRADE 500 MPa - MA |
| HR | PLAIN BARS GRADE 500 MPa - MA |
| | |
| | MESH TO NZS 3421 (500 MPa) |

* REINFORCEMENT SHALL BE CLASS E TO AS/NZS 4671 MANUFACTURED USING THE MICRO ALLOY PROCESS

REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DWGS. WHERE NOT SPECIFICALLY DESIGNATED COVER IS TO BE IN ACCORDANCE WITH NZS 3109.

| MEMBER | CAST AGAINST NOT EXPOSED TO WEATHER OR WATER | | GROUND |
|----------------|---|----|--------|
| STRIP FOOTINGS | N/A | 50 | 75 * |
| SLABS | 35 | 50 | 75 * |

* WHERE THERE IS A PERMANENT IMPERMEABLE MEMBRANE BETWEEN CONCRETE AND GROUND USE 50mm COVER.

FOR SITES WITHIN 500M OF MEAN HIGH WATER MARK INCREASE COVER BY 10mm

NO REINFORCEMENT SPLICES SHALL BE MADE, OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS, WITHOUT THE PRIOR APPROVAL OF THE ENGINEER, MINIMUM LAP FOR FABRIC SHALL BE ONE MESH PLUS 50mm

WELDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR

APPROVED BY THE ENGINEER. WHERE WELDING OF REINFORCEMENT IS PERMITTED GRADE 500 STEEL SHALL NOT BE WELDED OR REBENT UNLESS IT IS CLEARLY MARKED AS MICRO ALLOY GRADE 500, QUENCHED AND TEMPERED STEEL SHALL NOT BE WELDED OR REBENT.

BAR MARKING FOR IDENTIFICATION OF MICRO ALLOY (MA) AND QUENCHED AND TEMPERED (QTR) REINFORCING ARE SHOWN BELOW: (INDICATIVE ONLY)

| 87 | / / | - / | / | / / | 7 | 1 | SEISK | IIC 5¢ | OE Q | fr / | / | / / | / / | / / | - / | / / | | 3 |
|----|-----|-----|---|-----|---|---|-------|--------|------|------|---|-----|-----|-----|-----|-----|---|---|
| 7 | , | , | , | , | , | , | , | , | , | ' | , | , | , | , | , | , | , | - |

REINFORCEMENT SHALL BE ADEQUATELY FIXED AND SUPPORTED TO PREVENT IT SAGGING OR MOVING. MESH TO BE FULLY SUPPORTED ON PROPRIETARY CHAIRS.REFER TO SPECIFICATION FOR MINIMUM FIXING REQUIREMENTS.

THE MINIMUM CLEAR SPACING BETWEEN CONDUITS, CABLES, PIPES AND BARS SHALL BE AS REQUIRED BY NZS 3101 BUT NOT LESS THAN THREE DIAMETERS. CONDUITS IN SLABS ARE TO BE PLACED ABOVE BOTTOM REINFORCEMENT AND BELOW TOP REINFORCEMENT.

LEGEND USED FOR REINFORCEMENT LOCATION

| BS | BOTH SIDES |
|----|---------------|
| BB | BOTTOM BOTTON |
| В | BOTTOM |
| TT | TOP TOP |
| Т | TOP |
| EW | EACH WAY |
| EF | EACH FACE |
| NF | NEAR FACE |
| | |

FAR FACE ABR ALTERNATE BARS REVERSED

STANDARD SPLICE LAP LENGTHS FOR DEFORMED BARS:-

| CONCRETE LAPS | | | | | | |
|---------------|-----------|-----------|--|--|--|--|
| BAR SIZE DIA. | D | HD | | | | |
| | GRADE 300 | GRADE 500 | | | | |
| 10 | 400 | 600 | | | | |
| 12 | 450 | 750 | | | | |
| 16 | 600 | 1000 | | | | |
| 20 | 750 | 1200 | | | | |
| 25 | 900 | 1500 | | | | |
| 28 | 1100 | 1700 | | | | |
| MESH | 1 MESH S | Q. + 50mm | | | | |

NOTE: FOR ROUND BARS SPLICE LAP LENGTH TO BE TWICE THE SPLICE LENGTH OF DEFORMED BARS

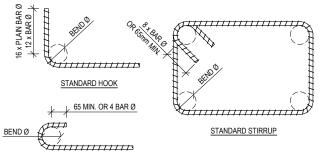
LAPS IN BEAMS & COLUMNS SHALL BE VIA AN OFFSET LAP CREATED BY CRANKING OF THE BAR AS SHOWN BELOW

LAP AS ABOVE , 12 BAR Ø

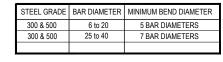
REVERSE COLD BENDING SHALL NOT BE CARRIED OUT ON-SITE. HOT BENDING MAY BE CARRIED OUT AT THE DISCRETION AND WITH THE WRITTEN APPROVAL OF THE ENGINEER REFER TO SPECIFICATION FOR HEATING & HOT BENDING PROCEDURE.

COLD BENDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH NZS 3109.

BENDS FOR ALL BARS EXCEPT STIRRUPS & TIES:-



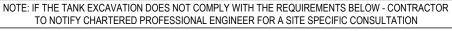


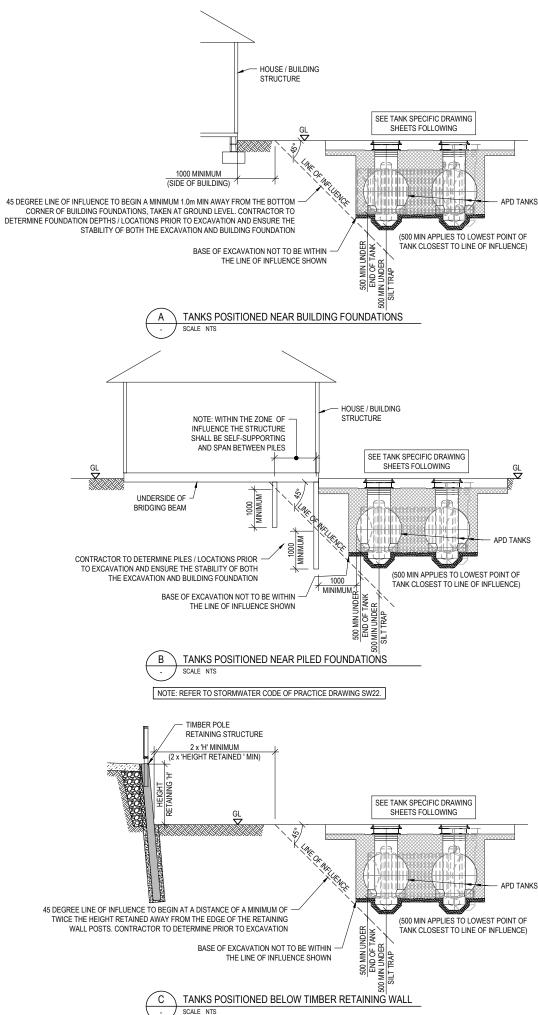


FOUNDATIONS:

FOUNDATIONS ARE TO BE FOUNDED ON ORIGINAL UNDISTURBED GROUND, AT A MINIMUM DEPTH OF 600mm, BEFORE ANY CONCRETE IS PLACED THE SOILS SHALL BE VERIFIED TO BE 'GOOD GROUND' TO NZS3604

50mm OF SITE CONCRETE MAY BE PLACED UNDER FOUNDATIONS TO CREATE A CLEAN SURFACE TO PLACE REINFORCING ON WHEN REQUIRED.







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| FOR CONSENT | 05-12-21 | 1 |
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| REVISION: | DATE: | No.: |
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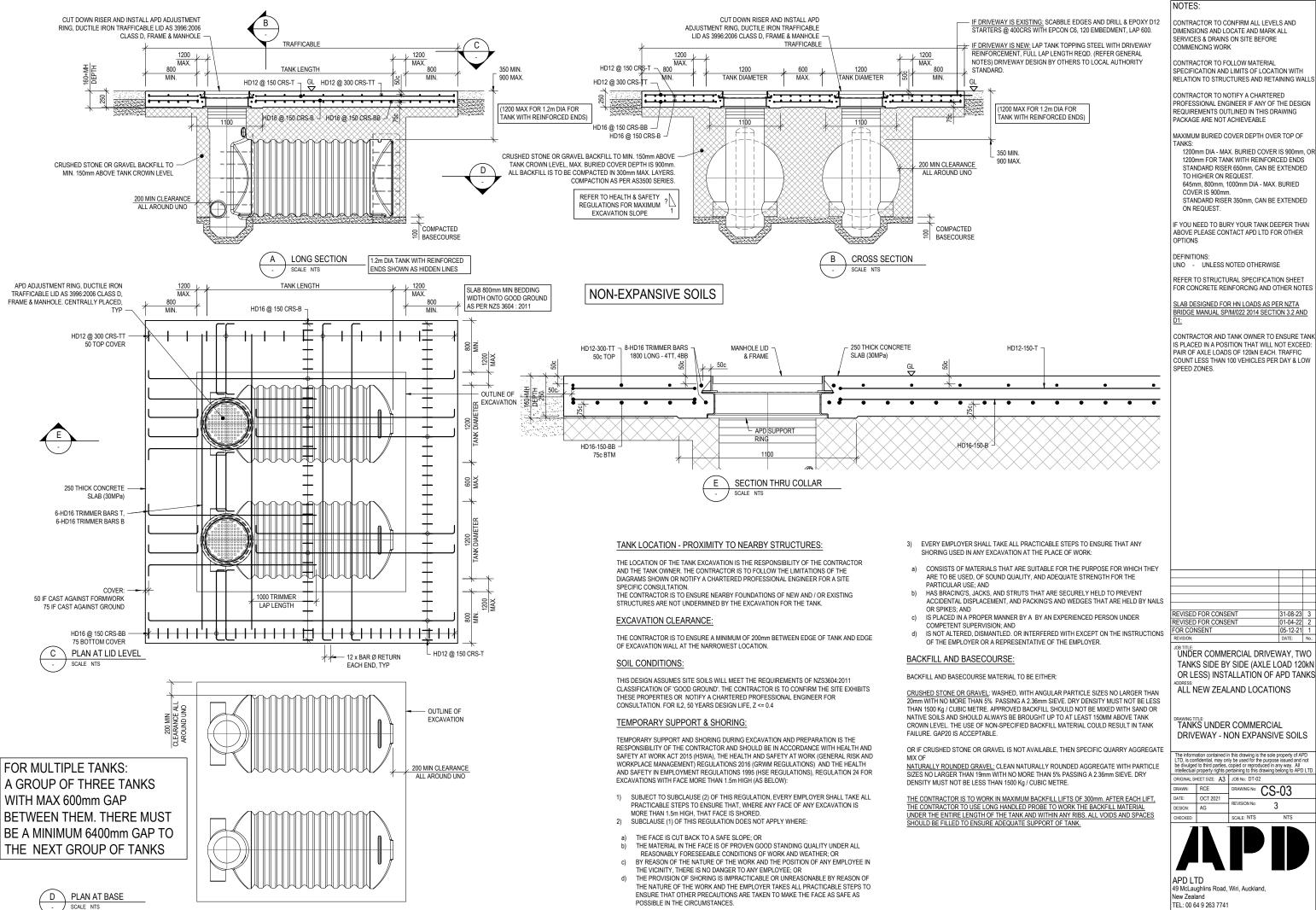
STANDARD NOTES AND DETAILS (DURABILITY ZONE D)

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OCT 2021 EVISION No



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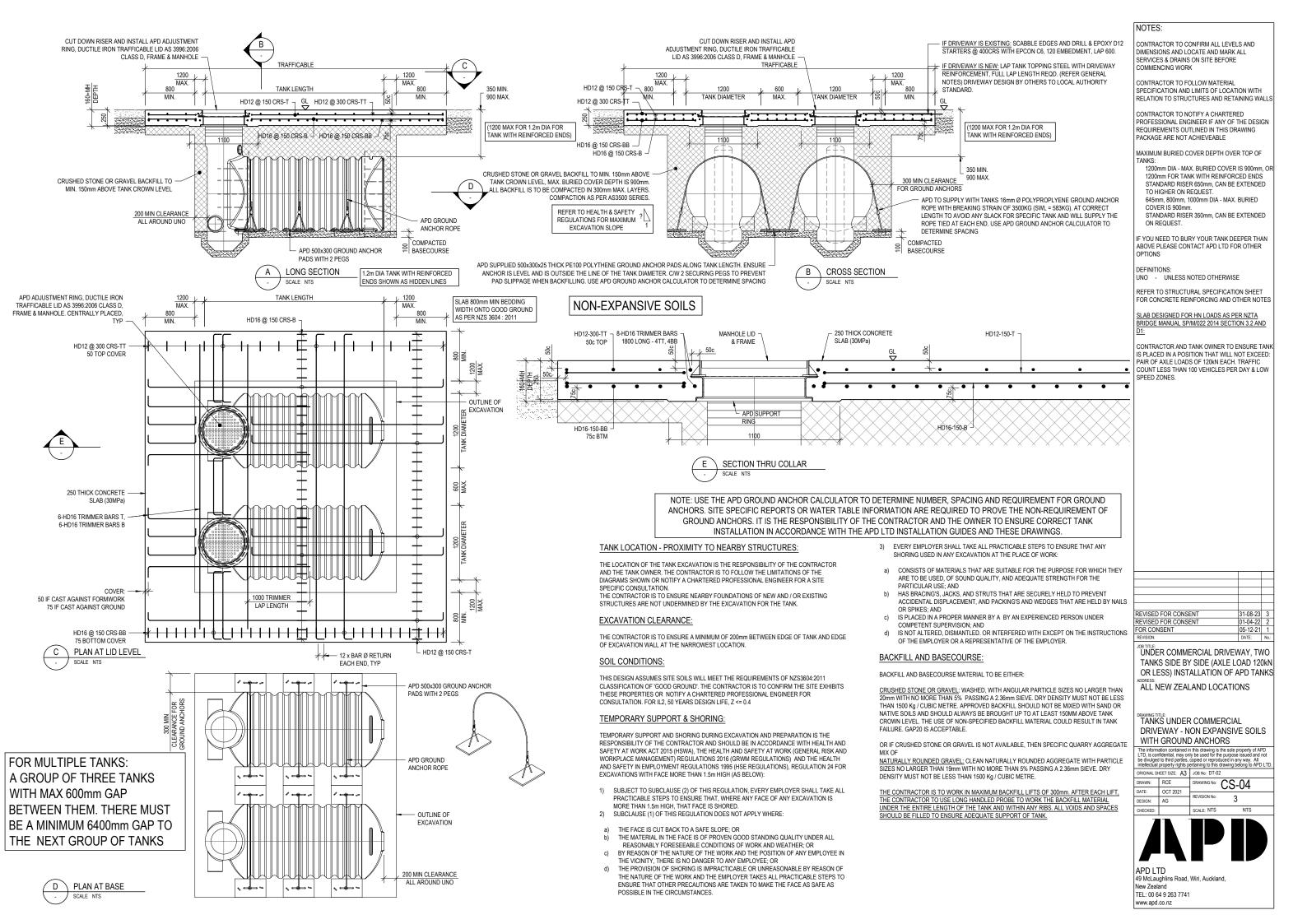


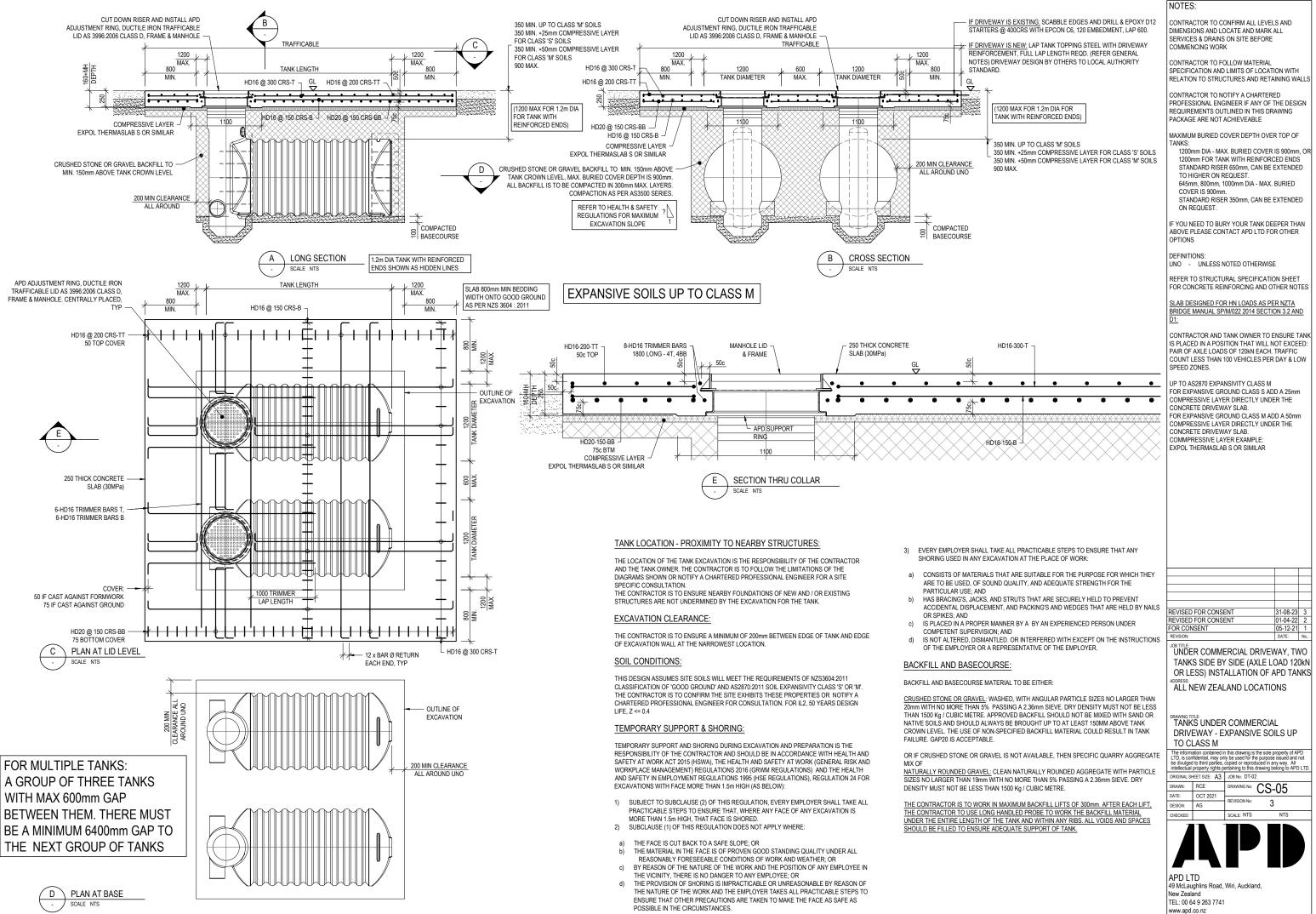
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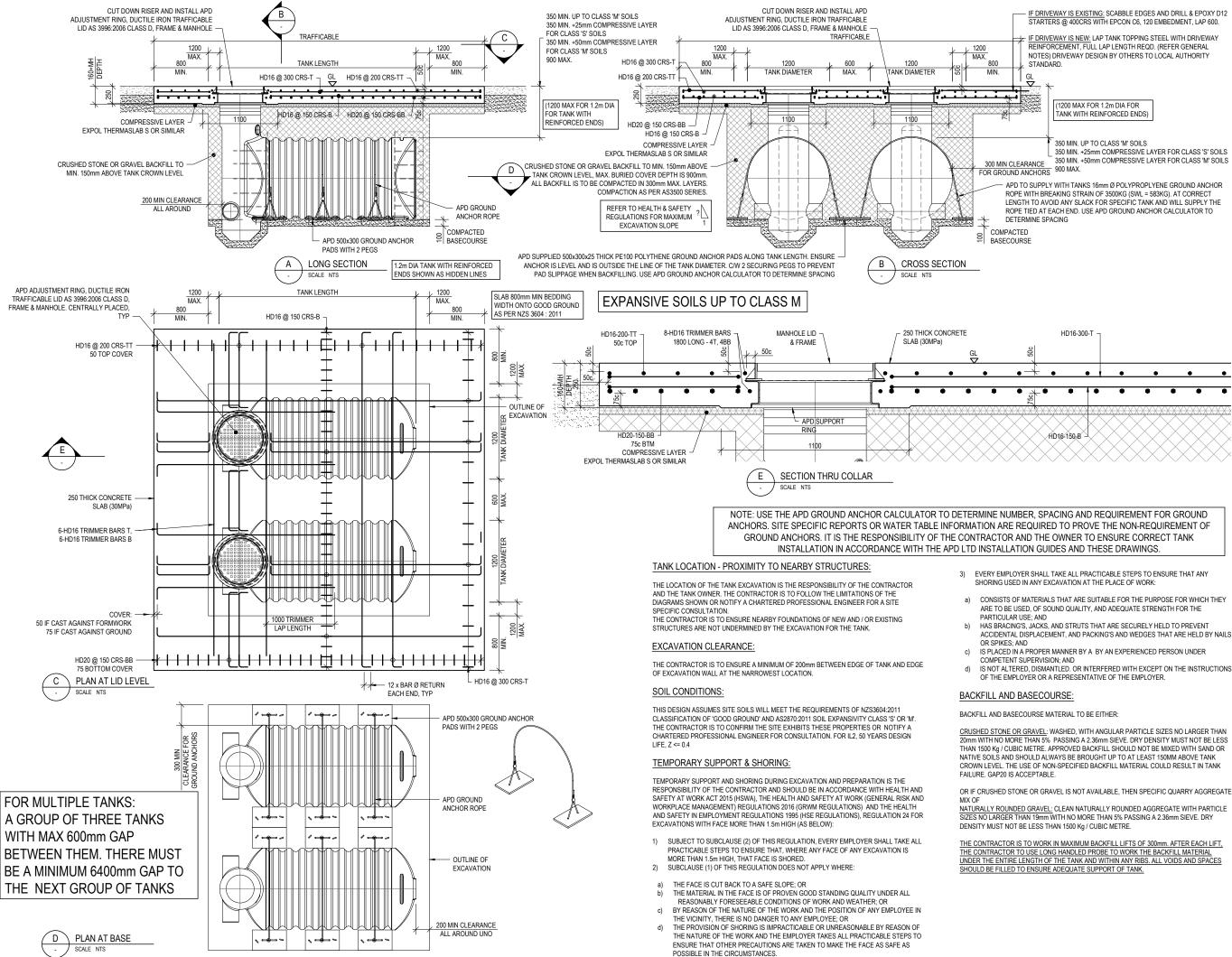
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P TO AS2870 EXPANSIVITY CLASS M OR EXPANSIVE GROUND CLASS S ADD A 25mm COMPRESSIVE LAYER DIRECTLY UNDER THE CONCRETE DRIVEWAY SLAB. FOR EXPANSIVE GROUND CLASS M ADD A 50mm COMPRESSIVE LAYER DIRECTLY UNDER THE CONCRETE DRIVEWAY SLAB COMMPRESSIVE LAYER EXAMPLE EXPOL THERMASLAB S OR SIMILAR

| REVISED FOR CONSENT | 31-08-23 | 3 |
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| REVISED FOR CONSENT | 01-04-22 | 2 |
| FOR CONSENT | 05-12-21 | 1 |
| REVISION: | DATE: | No.: |

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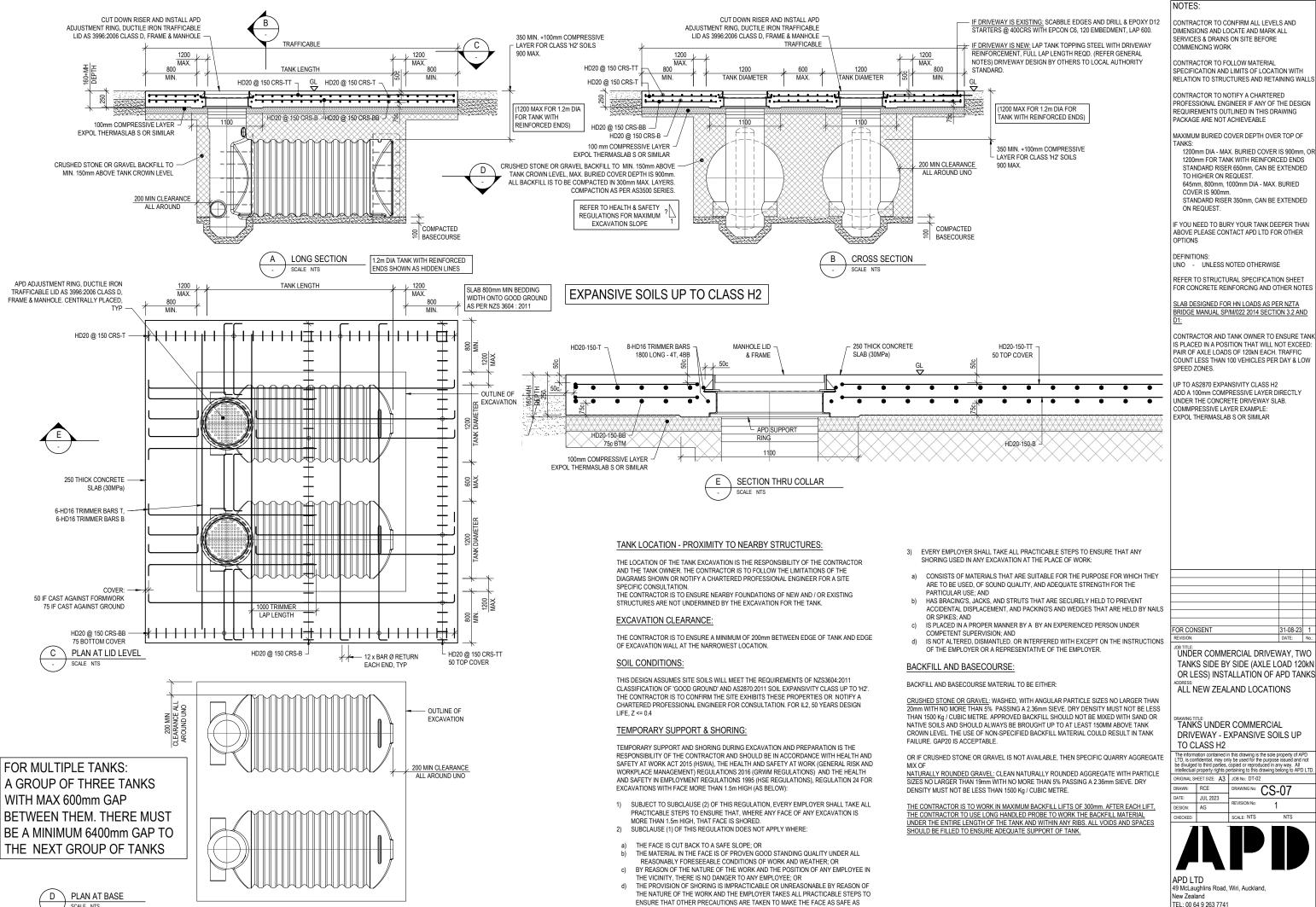
TANKS UNDER COMMERCIAL DRIVEWAY - EXPANSIVE SOILS UP TO CLASS M WITH GROUND ANCHORS

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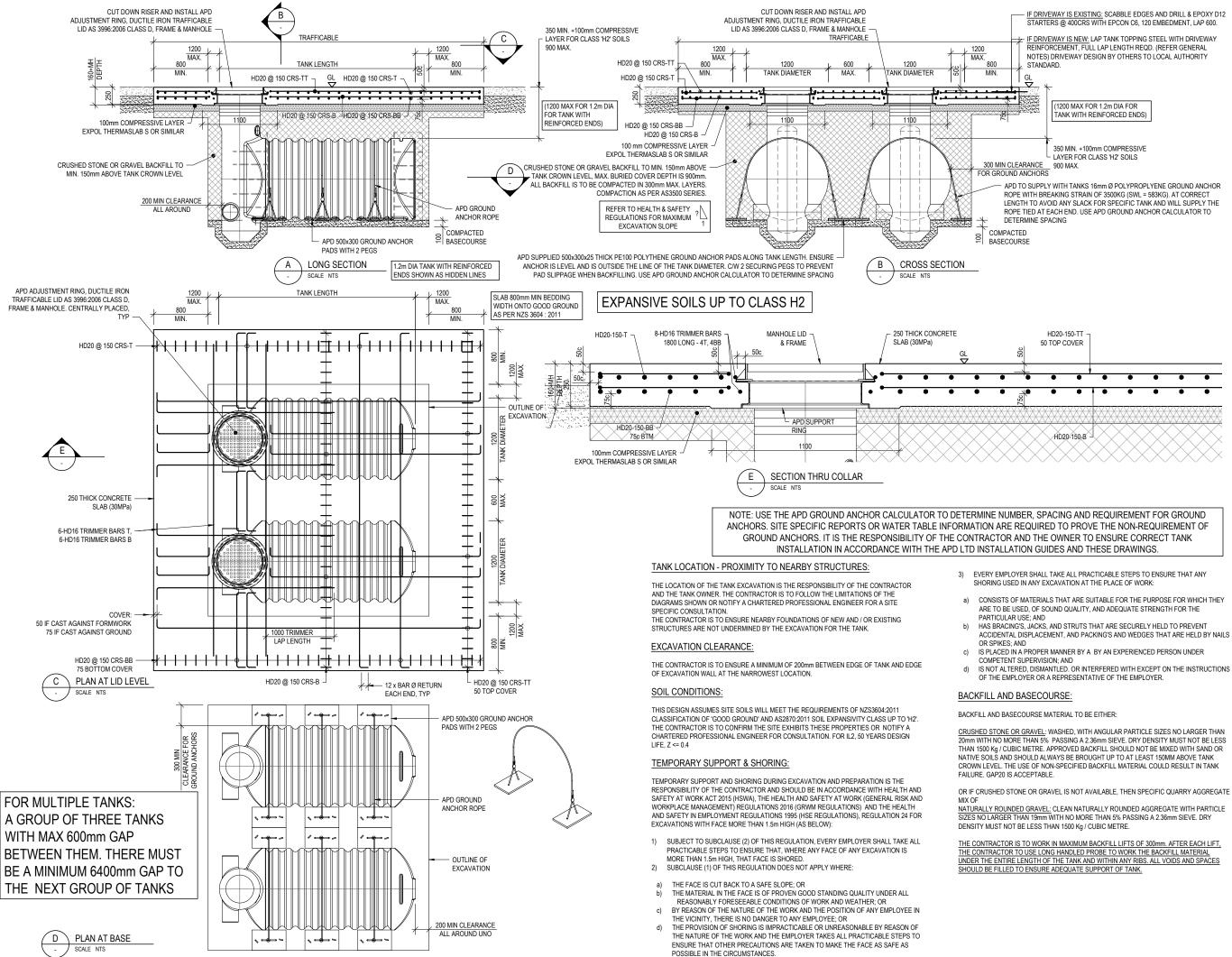
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POSSIBLE IN THE CIRCUMSTANCES.

SCALE NTS

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OR CONSEN 31-08-23 1

UNDER COMMERCIAL DRIVEWAY, TWO TANKS SIDE BY SIDE (AXLE LOAD 120kN OR LESS) INSTALLATION OF APD TANKS ALL NEW ZEALAND LOCATIONS

FANKS UNDER COMMERCIAL DRIVEWAY - EXPANSIVE SOILS UP TO CLASS H2 WITH GROUND ANCHORS

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