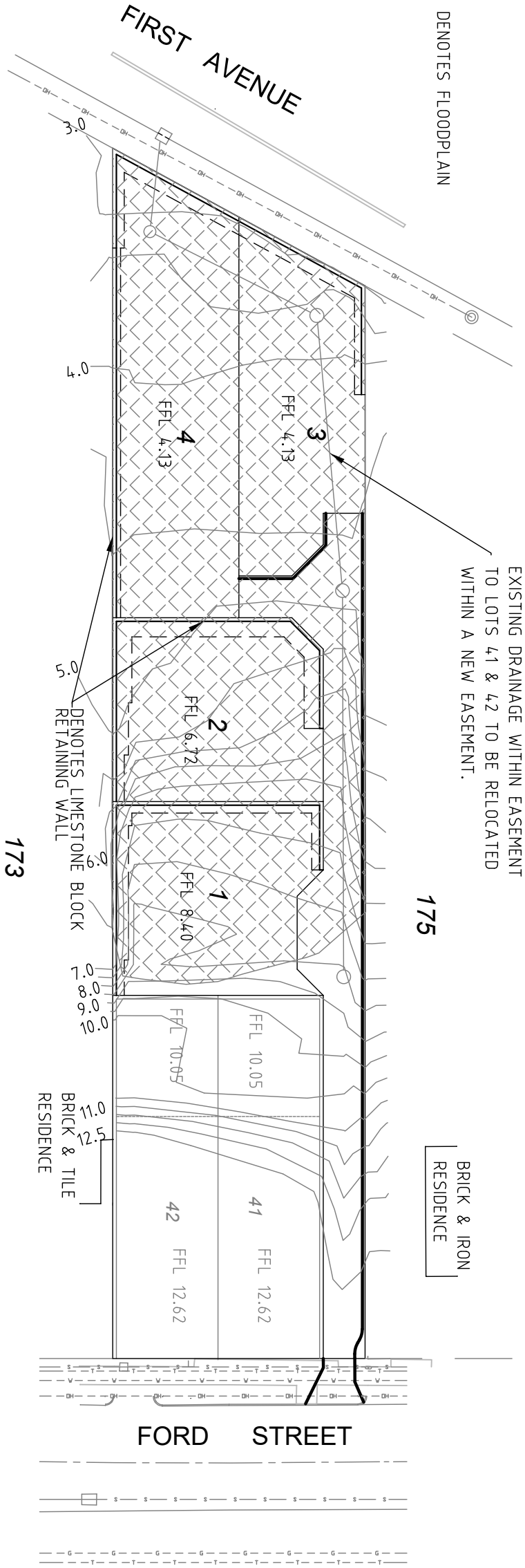
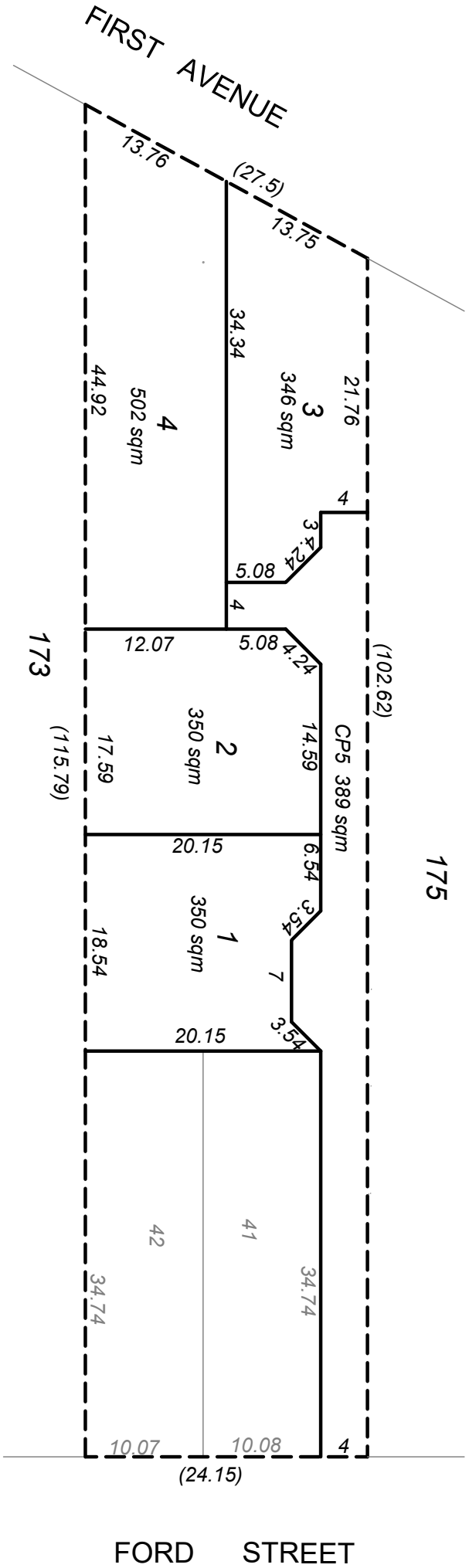




- LEGEND
- NEW KERB
  - WATER
  - SEWER
  - STORMWATER
  - COMMUNICATIONS
  - GAS
  - UNDERGROUND POWER
  - OVERHEAD POWER

ALAN MCLEAN ENGINEERING PTY LTD

67 ARLUNYA AVENUE, NELMONT WA 6104

MOB 0419925752 amep@inet.net.au A.B.N. 49 084 859 727

DESIGNED A.J.MCLEAN

DRAWN A.J.MCLEAN

CHECKED

DATE NOV 2023

SCALE: 1:500

DATUM: A.H.D.

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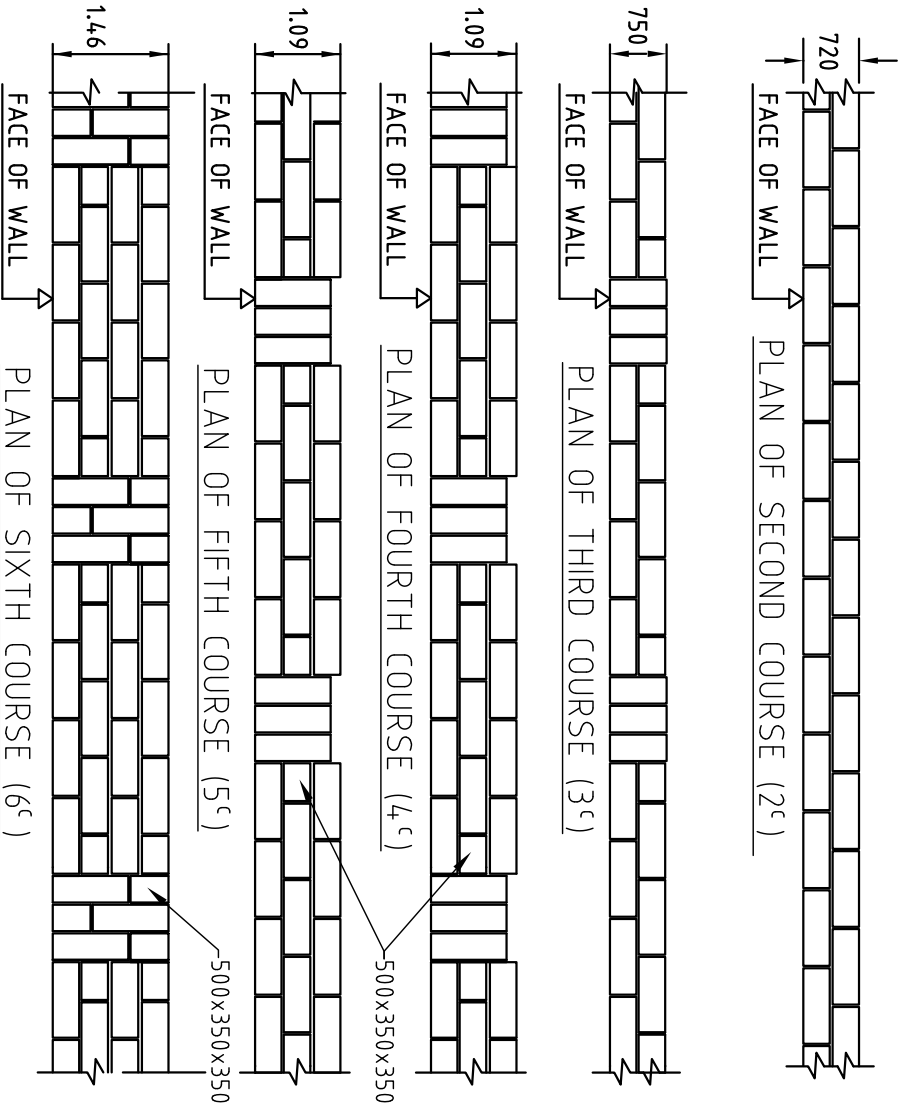
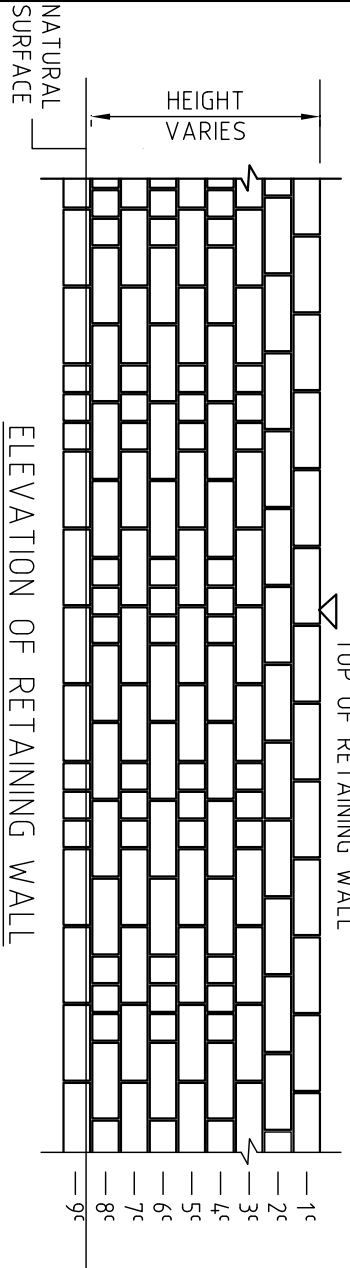
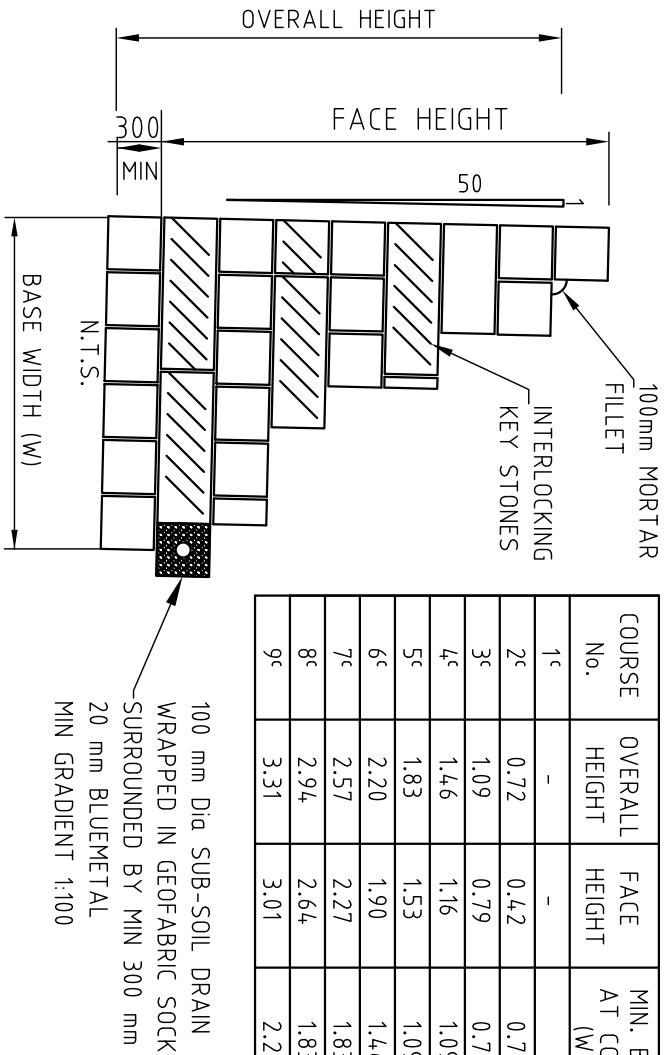
CLIENT PHOENIX CONTRACTING

DRAWING No : C-22-6-1

REVISION No: 1

ORIGINAL DRAWING SIZE A3

| COURSE No.     | OVERALL HEIGHT | FACE HEIGHT | MIN. BASE WIDTH AT COURSE (W) |
|----------------|----------------|-------------|-------------------------------|
| 1 <sup>c</sup> | -              | -           |                               |
| 2 <sup>c</sup> | 0.72           | 0.42        | 0.72m                         |
| 3 <sup>c</sup> | 1.09           | 0.79        | 0.72m                         |
| 4 <sup>c</sup> | 1.46           | 1.16        | 1.09m                         |
| 5 <sup>c</sup> | 1.83           | 1.53        | 1.09m                         |
| 6 <sup>c</sup> | 2.20           | 1.90        | 1.46m                         |
| 7 <sup>c</sup> | 2.57           | 2.27        | 1.83m                         |
| 8 <sup>c</sup> | 2.94           | 2.64        | 1.83m                         |
| 9 <sup>c</sup> | 3.31           | 3.01        | 2.25m                         |

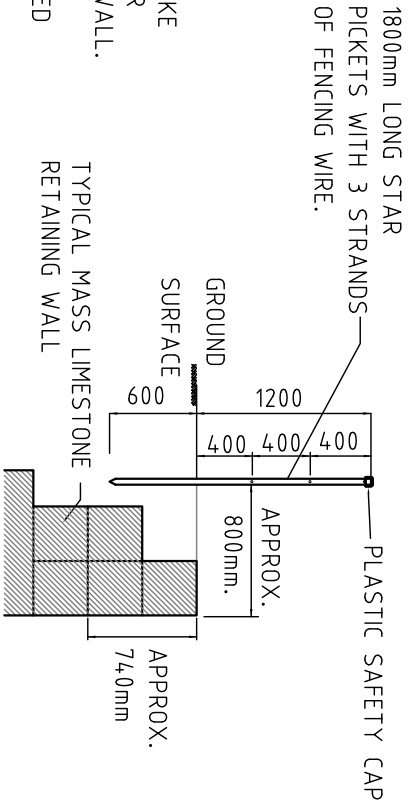


## NOTES:

- WHERE PROPOSED RETAINING WALL MEETS FUTURE, WALL TO BE EXTENDED 2m PAST LOT BOUNDARY AT THE TOP OF WALL TAPERING DOWN TO BASE OF WALL.
- WALLS ARE DESIGNED TO TAKE INTO ACCOUNT THE LOADINGS OF A SINGLE STORY RESIDENCE, WITH A 1.0m SETBACK FROM THE BOUNDARY LINE. INDEPENDENT ENGINEERING ADVICE SHALL BE SOUGHT FOR A DOUBLE STORY RESIDENCE.
- SCREEN FENCES INSTALLED ONTO RETAINING WALLS SHALL BE DESIGNED FOR STABILITY INDEPENDANT OF THE RETAINING WALL IF RETAINING WALL IS LESS THAN 1.10m IN HEIGHT.
- TEMPORARY SAFETY FENCING TO BE 1800mm. LONG STAR PICKETS DRIVEN IN 600mm. WITH THREE STRANDS OF 3.15mm. (10 GAUGE) PLAIN FENCING WIRE.
- SAFETY FENCE STAR PICKETS TO BE INSTALLED AT MAXIMUM SEPARATION OF 3.5m.
- SAFETY FENCING WIRE TO BE DRAWN HAND TIGHT.
- SAFETY FENCE STAR PICKETS TO BE INSTALLED ON EITHER SIDE OF LOT BOUNDARIES. STAR PICKETS AT EITHER SIDE OF LOT BOUNDARY TO HAVE MAXIMUM SEPARATION OF 100mm. WHERE NOT SEPARATED BY A RETAINING WALL.
- SAFETY FENCING WIRE TO TERMINATE AT STAR PICKETS ON EITHER SIDE OF LOT BOUNDARIES. ADJACENT STAR PICKETS AT LOT BOUNDARIES TO BE JOINED AT THE TOP WITH A SINGLE STRAND OF FENCING WIRE.
- SAFETY FENCE STAR PICKETS AT CORNER AND AT FENCE TERMINATION POINTS ON LOT BOUNDARIES TO BE BRACED WITH STAR PICKET ON 45° ANGLE.
- BUILDING LICENCE REQUIRED PRIOR TO COMMENCING WORKS.
- NON-SACRIFICIAL ANTI-GRAFFITI COATING TO BE APPLIED TO WALLS EXPOSED TO ROAD/D.U.P.
- THE RETAINING WALLS HAVE BEEN DESIGNED AND CONSTRUCTED TO TAKE A 1.8m HIGH FENCE INSTALLED WITH POSTS AT A SPACING NO GREATER THAN 2.5m AND EMBEDDED TO A DEPTH OF AT LEAST 600mm IN THE WALL. IT IS INTENDED THAT FENCES SHOULD BE INSTALLED BY A REPUTABLE BUILDING OR FENCING CONTRACTOR WHOSE DESIGNS HAVE BEEN CERTIFIED BY A STRUCTURAL ENGINEER.
- IF A SWIMMING POOL IS TO BE CONSTRUCTED IN ANY PROXIMITY TO THE WALLS IT IS ADVISABLE THAT INDEPENDENT ADVICE FROM A CERTIFIED STRUCTURAL ENGINEER BE OBTAINED.
- WALLS SHALL BE CONSTRUCTED FROM 1000 LONG x 350 x 350 RECONSTITUTED LIMESTONE BLOCKS WITH A MASS PER UNIT VOLUME OF 1800 Kg/cum TO BE SECURELY MORTARED TOGETHER WITH ALL VOIDS FILLED.
- INTERLOCKING HORIZONTAL AND VERTICAL KEYSTONES SHALL BE PLACED UNIFORMLY THROUGHOUT THE WALL TO MINIMUM SPACING SHOWN ON THE DRAWING.
- MORTAR MIX SHALL BE 1 CEMENT, 1 LIME, 6 SAND.
- GROUND BELOW WALL SHALL BE A MINIMUM OF 300mm OF CLEAN GRANULAR SAND COMPACTED TO A MINIMUM OF 8 BLOWS PER 300mm OR 95% MAXIMUM DRY DENSITY.
- GROUND IN FRONT OF WALL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PRIOR TO BACKFILLING BEHIND WALL WITH CLEAN, FREE DRAINING SAND.
- SAND BACKFILL TO BE SPREAD IN 300mm LAYERS AND COMPACTED TO A MINIMUM OF 8 BLOWS PER 300mm WHEN TESTED WITH A STANDARD FALLING WEIGHT PENETROMETER. DO NOT BACKFILL UNTIL 7 DAYS AFTER THE LAST BLOCK HAS BEEN LAID. USE ONLY LIGHT COMPACTION EQUIPMENT.

### DESIGN ASSUMPTIONS

- ASSUMED ANGLE OF REPOSE 35°
- RECONSTITUTED LIMESTONE DENSITY 1.8t/ħ
- SOIL DENSITY 1.7t/m³
- ASSUMED 3KPa LIVE LOAD TO TOP OF WALL
- HEIGHTS ARE BASED ON A 350mm HIGH BLOCK WITH 20mm MORTAR COURSE.



SAFETY FENCING TO BE INSTALLED AS SHOWN FOR ALL RETAINING WALLS THAT ARE 1.0m IN HEIGHT OR OVER.

WAPC 146523

ALAN MCLEAN ENGINEERING PTY LTD  
67 ARLUNYA AVENUE, BELMONT WA 6104  
Mob 041 992 5752 amep@iinet.net.au ABN 49 084 859 727

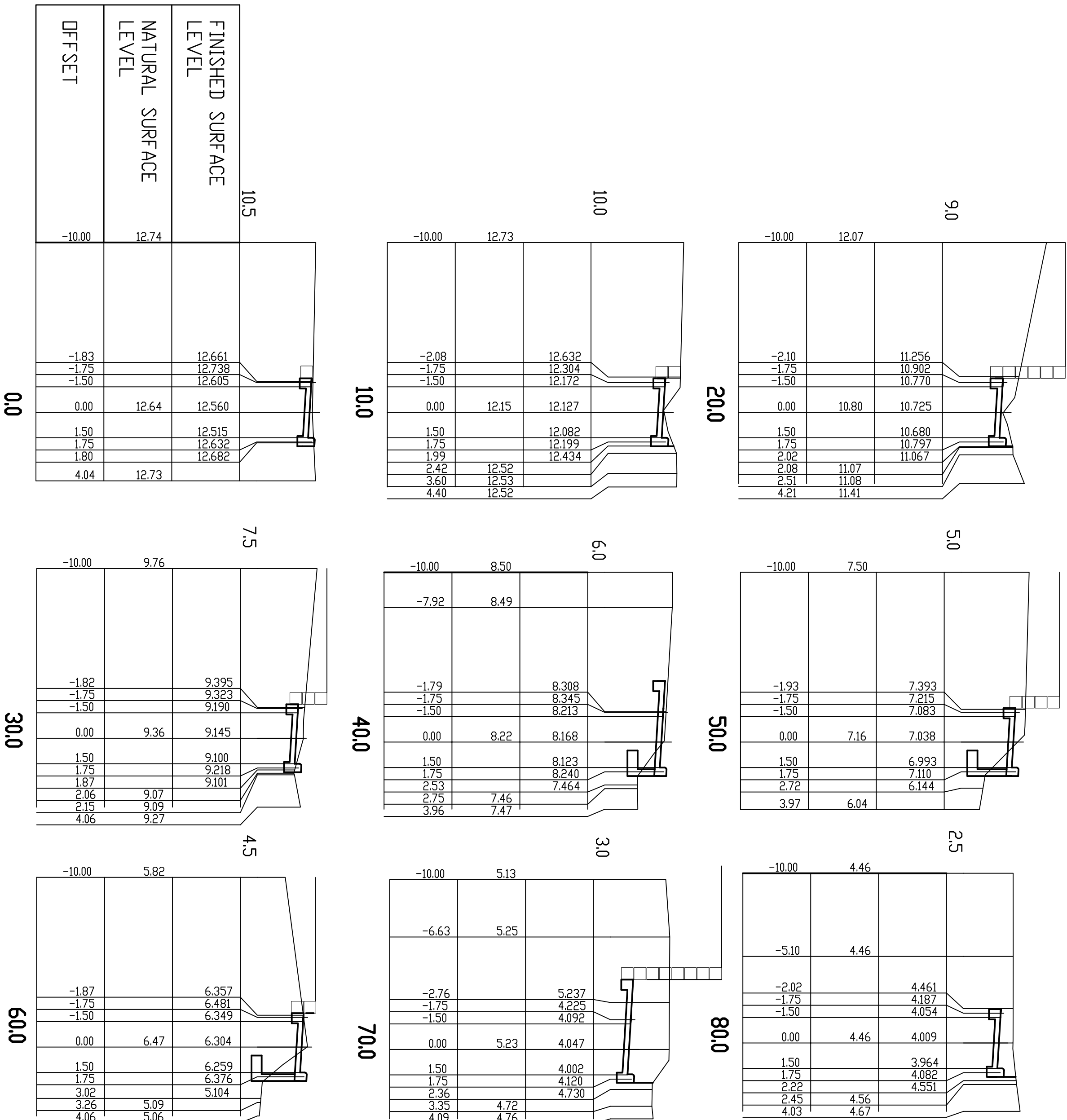
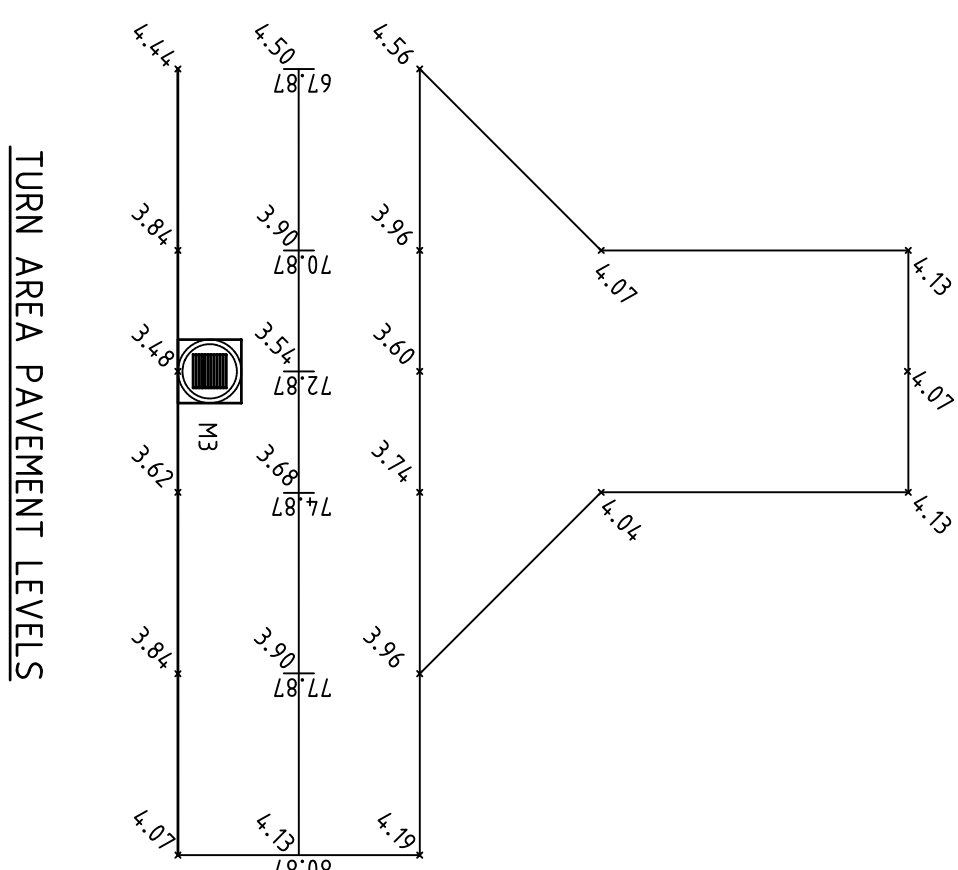
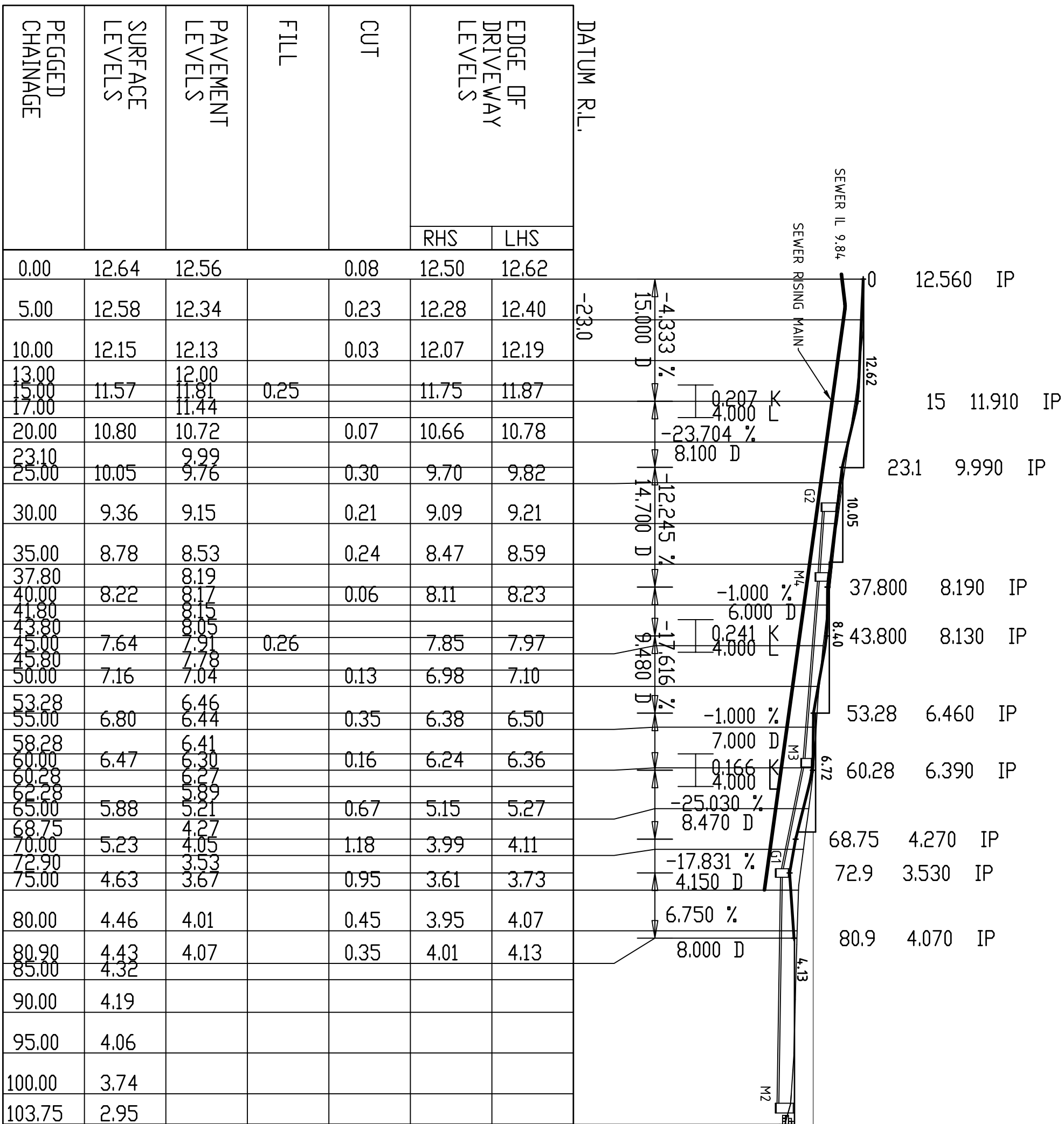
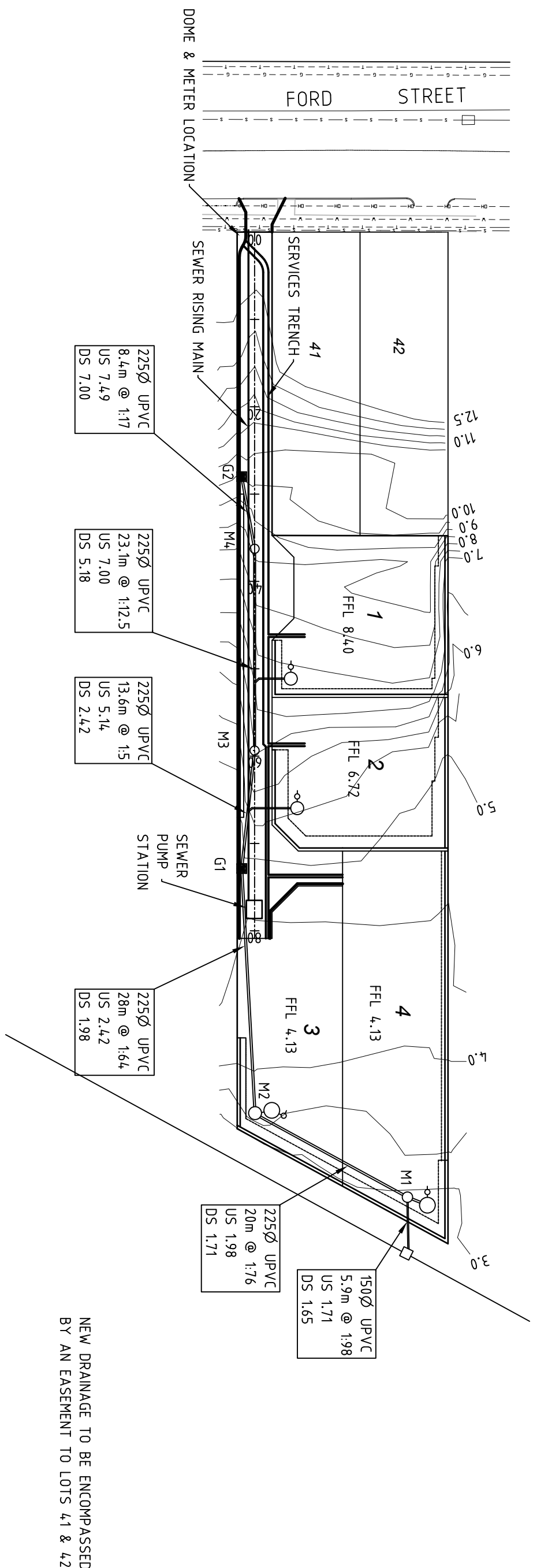
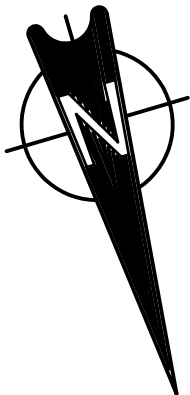
DESIGNED MJB PAYNE  
DRAWN A.J.MCLEAN  
CHECKED  
DATE APRIL 2020

SCALE:  
1:100  
DATUM:

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APPROVED  
DRAWING No : C-22-6-2  
AMENDMENT No:  
ORIGINAL DRAWING SIZE A3  
DATE

LOT 174 FORD STREET, WOODBRIDGE  
RETAINING WALL DETAILS



ALAN McLEAN ENGINEERING PTY LTD  
67 ARLUNYA AVENUE, BELMONT WA 6104  
MOB 041 992 5752

| DESIGNED    | NAME       | DATE     |
|-------------|------------|----------|
| RECOMMENDED | A.J.McLEAN | NOV 2023 |
| APPROVED    |            |          |

| SCALE | VARIES |
|-------|--------|
| AT A1 |        |
| DATUM | A.H.D. |

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LOT 174 FORD STREET, WOODBRIDGE  
DRIVEWAY PLAN, PROFILE AND CROSS-SECTIONS

DRAWING NO.  
C-22-6-3



