



DRAWING No. 2.3812-200	REV.	
SCALE DATE DRAWN 1:100 18.09.23 EDS	APPROVED KMcC	A0
PROPOSED DRAINAGE LAYOUT		
PROJECT 2 WESTFIELD LOAN FORFAR		
MCGREGOR MCMAHON CONSULTING ENGINEERS 2 Castle Court • Carnegie Campus • Dunfermline • Fife • KY11 8PB 01383 734905 • mcgregor-mcmahon.com • admin@mmaeng.com		
DRAWING STATUS PLANNING		
HEALTH AND SA THE DESIGN HAS HIGHLIGHTED HAZARDS, WHICH ARE CONSIDE THE NORMAL EXPERIENCE OF CONTRACTOR.	AFETY ONLY COMMON IRED TO BE WITHIN A COMPETENT	
22. CONTRACTOR IS RESPONSIBLE FOR ALL LIAISON INSPECTOR TO ENSURE COMPLETION CERTIFICATE IS FINISH. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ISSUING TO CLIENT/ENGINEER.	WITH SCOTTISH WA OBTAINED AT END COMPLETION CERTIFIC	TERS OF CATE
PITS TO VERIFY THAT THE EXISTING PUBLIC UTILITY P AFFECTED, 7 DAYS BEFORE COMMENCING SAID WORKS. 21. MAIN CONTRACTOR IS RESPONSIBLE FOR PAYM CONNECTION WITH PERMIT TO CONNECT/INFRASTRUCT WATER.	LANT WILL/WILL NOT MENT OF ALL FEES URE CHARGES SCOT	f be S in Ftish
 WHERE APPLICABLE, 3.0m MINIMUM IS REQUIRED OF FOUNDATION TO THE OUTSIDE OF ADJACENT SE LEVEL TO BE TAKEN DOWN TO PROVIDE 45 DEGRE SEWER. WHERE EXISTING SERVICES MAY BE AFFECTED WORKS, THE SUBCONTRACTOR IS TO UNDERTAKE A SER 	BETWEEN THE OUT WER PIPE. FOUNDA E CLEARANCE TO S BY ANY CONSTRUC RIES OF HAND DUG T	SIDE Ation Same Stion Frial
 17. HEIGHT ADJUSTMENT TO MANHOLE COVER AND FIOF 1 COURSE AND A MAXIMUM 3 COURSES OF CLAS BRICK. 18. ALL METALWORK TO BE HOT-DIP GALVANIZED TO BE HOT-DIP	RAME TO BE A MINI SS B ENGINEE	imum Ring
16. CONCRETE FOUNDATION TO BE SCABBLED GRANOLITHIC FINISH IF PURPOSE BUILT CHANNELS GRANOLITHIC MUST BE EXTENDED TO FORM THE CHANN	BEFORE PLACING ARE NOT USED, EL.	THE THE
14. MANHOLE COVERS TO BE GRADE D400 BS EN1: COVER AND FRAME 150mm DEEP, WITH 675mm SQUA IRON. COVER TO BEAR THE REGISTERED CERTIFICATION 15. ALL PRECAST CONCRETE COVER SLARS TO BE HEAVO	24 DOUBLE TRIANGI RE OPENING, IN DUC MARK OF THE B.S.I. Y DUTY	ular Ctile
AND BE BEDDED IN CEMENT MORTAR. 13. THE TOP FIRST DOUBLE ENCAPSULATED STEP RUN LESS THAN 500mm AND NOT GREATER THAN 700m MANHOLE COVER LEVEL.	IG TO BE LOCATED	NOT SHED
APPLICATION OF CEMENT MORTAR, TOKSTRIP OR OT EQUAL. 12. THE LOWEST CHAMBER RING BEARING ON THE HIGHEST CHAMBER RING RECFIVING THE COVER SLAP	FOUNDATION, AND	THE ENDS
10.ROCKER PIPES SHALL BE USED FOR PIPES LESS ENTERING AND LEAVING MANHOLES. MAXIMUM LENGTH N 11.ALL PRECAST CONCRETE UNITS TO BE REINFORCED JOINTS BETWEEN PRECAST CONCRETE UNITS TO BE MA	THAN 750 NOMINAL OT TO EXCEED 600m) TO BS.5911, WITH DE WATER-TIGHT BY	DIA nm. ALL THF
9. THE LETTER 'F' TO BE PAINTED ON THE INTERN DISCONNECTING MANHOLES.	NAL FACE OF ALL F	FOUL
8. DISCONNECTING MANHOLES TO BE IN ACCORDAN SHOULD BE 1.2m FOR FOUL & 1.05m DEEP FOR 3 OTHERWISE NOTED OR INSTRUCTED. ALL DIS POLYPROPYLENE UP TO DEPTHS OF 1.2m & NON- CHAMBERS UPTO DEPTHS OF 3m OR PRE-CAST GREATER DEPTHS.	CE WITH BS.8301 SURFACE WATER UNI CONNECTORS TO MAN ENTRY INSPEC CONCRETE RINGS	AND LESS BE CTION FOR
CLERK OF WORKS PRIOR TO COMMENCING LAYING. 7. CONCRETE PROTECTION SHALL BE PROVIDED TO COVER IS LESS THAN 1200mm UNDER ROADS AND YAI FOOTPATHS AND SOFT LANDSCAPING.	ALL PIPEWORK WH RDS AND 900mm UN	HERE NDER
6. ALL PIPES UP TO 450mmø TO BE TWIN WALLED P SEWER OR EQUAL APPROVED). THE CONTRACTOR MUST THE ACTUAL PIPE MANUFACTURER/SPECIFICATION CHOST	VC—u (MARLEY QUAN T OBTAIN APPROVAL EN BY SCOTTISH WA	ntum For Ters
A MATTER OF URGENCY. 5. SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH FOURTH EDITION 2018, PUBLISHED BY W.R.C. EXCEP SCOTTISH WATERS' SPECIFICATION AND DRAWINGS	SEWERS FOR SCOTL PT WHERE AMENDED	AND, BY
4. SUBCONTRACTOR TO CHECK THE LINE/LEVEL A EXISTING SEWERS AT LEAST 7 DAYS PRIOR TO COMI WORKS THE ENGINEER IS TO BE ADVISED IN WRITING (ND DIAMETER OF MENCING ANY SEWEF OF ANY DISCREPANC ^Y	THE RAGE Y AS
3. THE CONTRACTOR'S ATTENTION IS DRAWN TO THE ENSURE THE SAFETY AND WELL-BEING OF BOTH SIT PUBLIC DURING THE COURSE OF THE WORKS.	HEIR RESPONSIBILITY E OPERATIVES AND	TO THE
EITHER PARTY BEFORE PROCEEDING. 2. DO NOT SCALE FROM THESE DRAWINGS. ALL D CHECKED ON SITE BY CONTRACTOR PRIOR TO COMMI	IMENSIONS ARE TO ENCEMENT OF WORK	BE ON
DISCREPANCE OR CONFLICE BEIWEEN THE DRAWINGS S		

DESCRIPTION