



HARDSTANDING NOTES:

- SUB BASE DEPTHS BASED ON 5% CBR VALUE. IN ORDER TO PROVIDE AN ACCURATE CONSTRUCTION THICKNESS CBR TESTS SHOULD BE TAKEN AT FORMATION LEVEL AND THE ENGINEER INFORMED OF THE RESULTS. THE DISTANCE BETWEEN TESTS SHOULD BE CLARIFIED BY THE LOCAL AUTHORITY HIGHWAY ENGINEER. AT LEAST 5 WORKING DAYS NOTICE SHOULD BE PROVIDED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL WORKS TO THE PUBLIC HIGHWAY WILL REQUIRE THE INSPECTION AND APPROVAL OF THE LOCAL HIGHWAYS DEPARTMENT. THE CONTRACTOR SHOULD CONTACT THE HIGHWAYS INSPECTOR PRIOR TO COMMENCEMENT TO AGREE AN INSPECTION REGIME.
- ALL PLACEMENT OF MATERIALS SHOULD BE UNDERTAKEN IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE SPECIFICATION FOR HIGHWAYS WORKS.
- ANY SOFT SPOTS OR DISCREPANCIES IN SUB SOIL MATERIAL FOUND DURING EXCAVATION SHOULD BE REPORTED TO THE ENGINEER. ALL SOFT SPOTS SHOULD BE REMOVED AND REPLACED WITH TYPE 1 GRANULAR MATERIAL, PLACED IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS.
- NO FROST SUSCEPTIBLE MATERIAL SHOULD BE PLACED/OR REMAIN WITHIN 450MM OF FINISHED LEVEL.
- CONCRETE FOR FOUNDATIONS AND HAUNCHING TO BS8500-2: STANDARD MIX ST4. FOUNDATIONS SHOULD BE ACCURATELY CAST FOUNDATIONS IN ALL AREAS SUBJECT TO VEHICULAR TRAFFIC.
- FOLLOWING CONSTRUCTION, FOUNDATIONS AND HAUNCHING TO BE GIVEN ADEQUATE TIME TO STRENGTHEN PRIOR TO VEHICULAR TRAFFICKING.
- PRE CAST RADIUS KERBS SHOULD BE USED ON ALL RADII UPTO 15m.
- WORKS SHOULD BE PROGRAMMED BY THE CONTRACTOR TO ENSURE THAT NO TRAFFICKING OF PAVEMENTS BY CONSTRUCTION TRAFFIC OCCURS, OTHER THAN THAT PREVIOUSLY AGREED UPON BY THE ENGINEER.
- VERTICAL EDGES OF MANHOLES, GULLIES, KERBS AND OTHER ABUTMENTS/CLEAN AND PAINT WITH A THIN UNIFORM COATING OF COLD APPLIED THIXOTROPIC BITUMEN EMULSION. TAMP SURFACE AROUND PROJECTIONS. LEVEL: FLUSH OR NOT MORE THAN 3mm ABOVE PROJECTIONS.

HEALTH & SAFETY

- CONTRACTOR SHOULD BE AWARE OF GENERAL CONSTRUCTION RISKS TO PREVENT SLIPS, TRIPS AND FALLS AND TAKE NECESSARY PRECAUTIONS WITHOUT SPECIAL INSTRUCTION.

ROADS & DRAINAGE

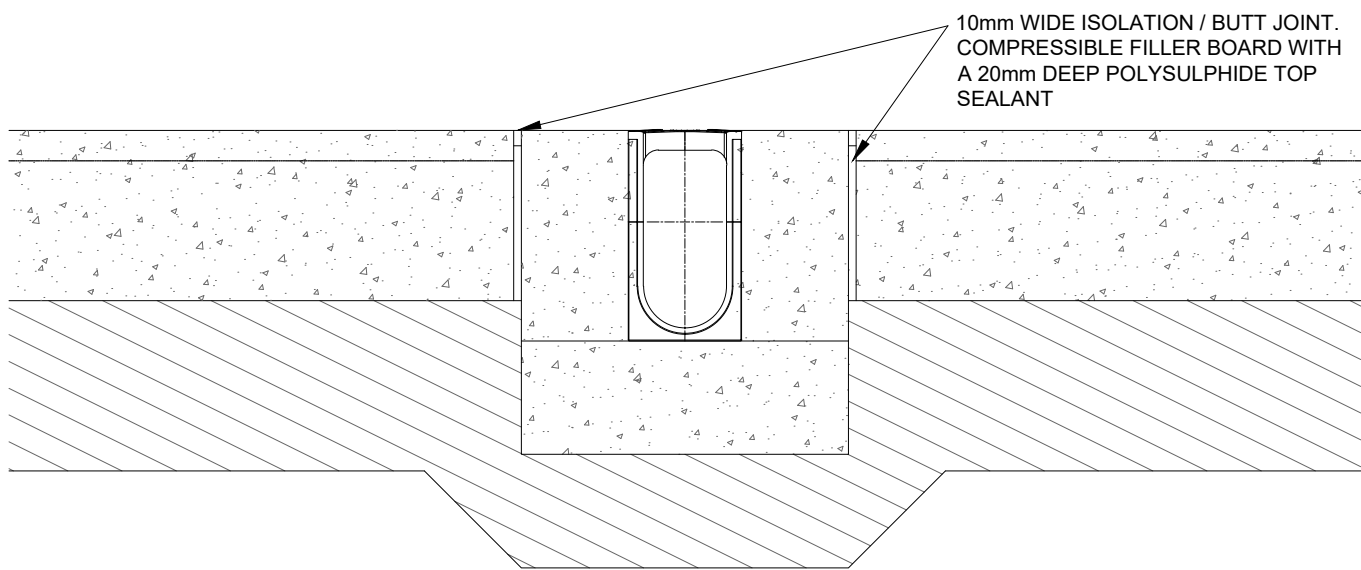
- CONTRACTOR TO PROVIDE TRENCH SUPPORTS AS APPROPRIATE AND ENSURE THAT PLANT REMAINS A SAFE DISTANCE FROM TRENCHES PRIOR TO INSTALLING DRAINAGE.
- THE TIME THAT EXCAVATIONS ARE OPEN ON SITE SHOULD BE KEPT TO A MINIMUM AND ALL TRENCHES SHOULD BE SURROUNDED BY A BARRIER.
- CONTRACTOR TO TAKE MEASURES TO PROTECT HIS OPERATIVES WITH RESPECT TO THE PRESENCE OF GAS IN SEWER TRENCHES AND MANHOLES THROUGH THE USE OF GAS MONITORING EQUIPMENT AND BREATHING APPARATUS AS REQUIRED.
- CONNECTIONS TO EXISTING SEWERS TO BE MADE BY NWL APPROVED CONTRACTOR ONLY.
- CONTRACTOR TO MAKE OPERATIVES AWARE OF ASSOCIATED DANGERS TO HEALTH SUCH AS LEPTOSPIROSIS (WELLS DISEASE) AND RECOMMENDED PRECAUTIONS. ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING TO BE PROVIDED AS REQUIRED.
- UNFINISHED MANHOLES MUST BE COVERED WITH LOAD BEARING MATERIALS AND SURROUNDED WITH A BARRIER.

PIPES & CABLES

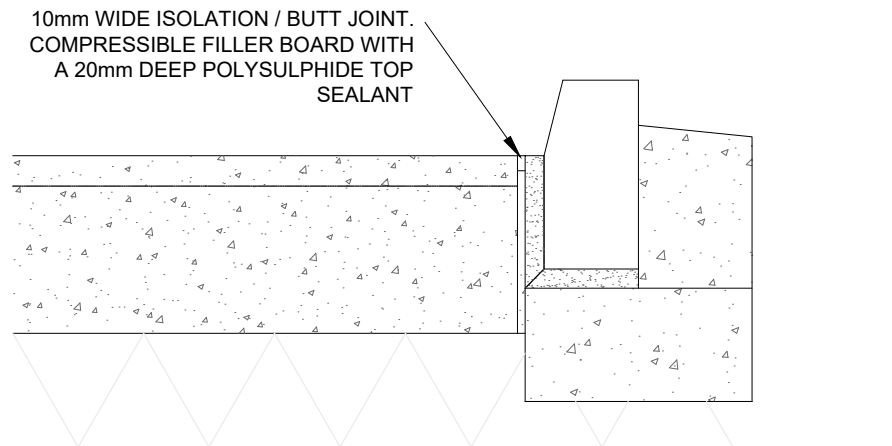
- SERVICE RECORDS TO BE REFERRED TO PRIOR TO WORK COMMENCING. CONTRACTOR TO PROCEED WITH CAUTION AND SERVICES TO BE LOCATED BY HAND DIG AND PROTECTED ACCORDINGLY.

EXCAVATION/FILL

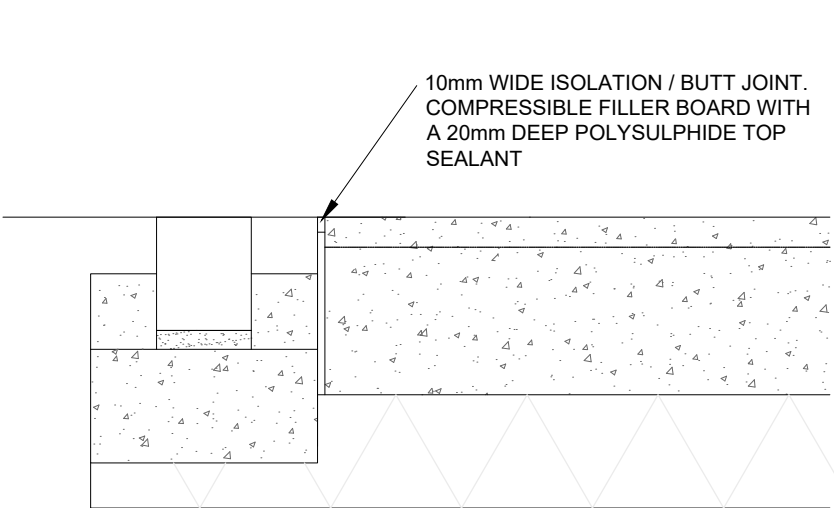
- CONTRACTOR TO ENSURE RELEVANT MEASURES ARE TAKEN TO KEEP PLANT AND PEOPLE A SAFE DISTANCE FROM STEEP SLOPES DURING THE WORKS.
- CONTRACTOR TO ENSURE THAT PROCEDURES ARE IN PLACE TO KEEP PEOPLE A SAFE DISTANCE FROM WORKING PLANT WHERE NECESSARY.
- CONTRACTOR TO REFER TO GROUND INVESTIGATION AND REPORT FOR CONTAMINATION TESTS AND TO PROVIDE ADEQUATE WELFARE FACILITIES AND PROTECTIVE CLOTHING AS REQUIRED.



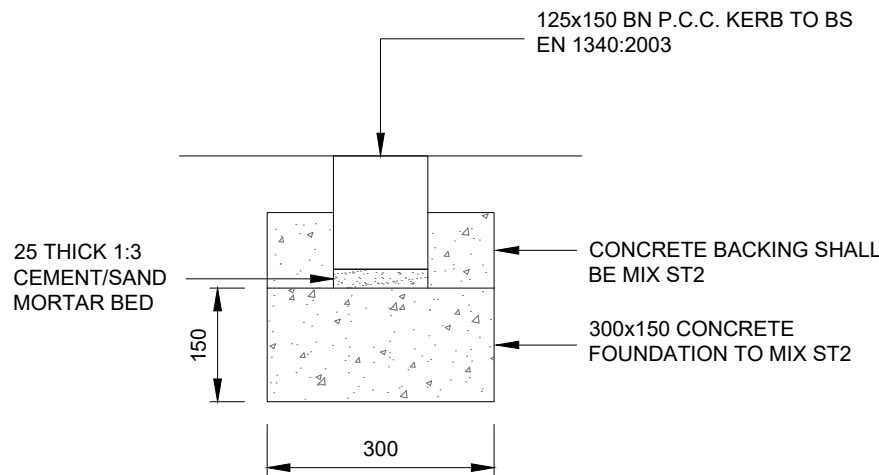
ISOLATION JOINT DETAIL @ DRAINAGE CHANNEL



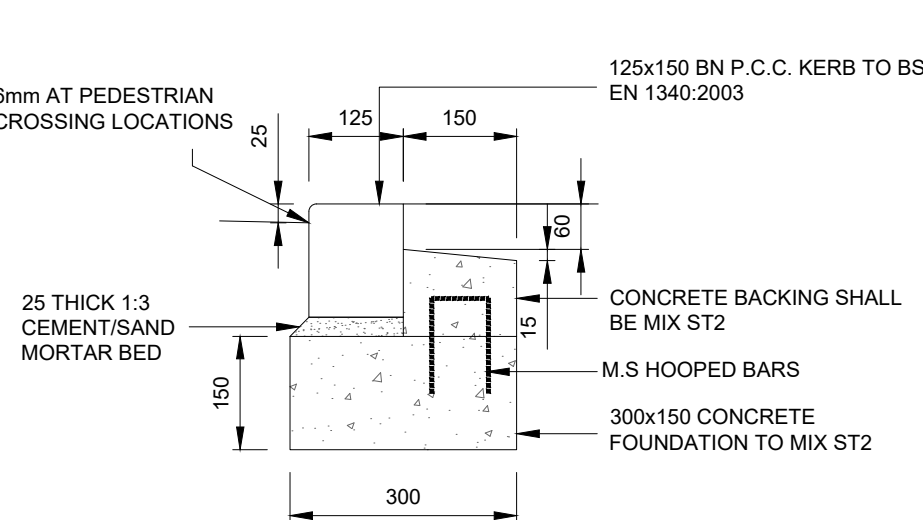
ISOLATION JOINT DETAIL @ HALF BATTERED KERB



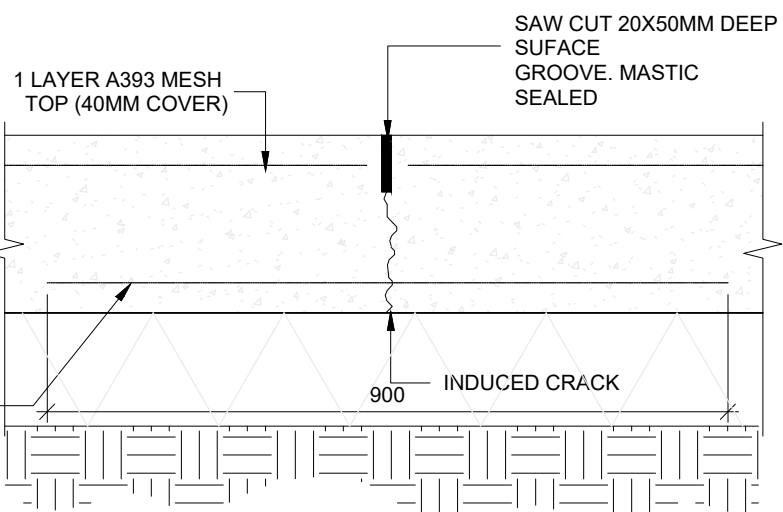
ISOLATION JOINT DETAIL @ CHANNEL KERB



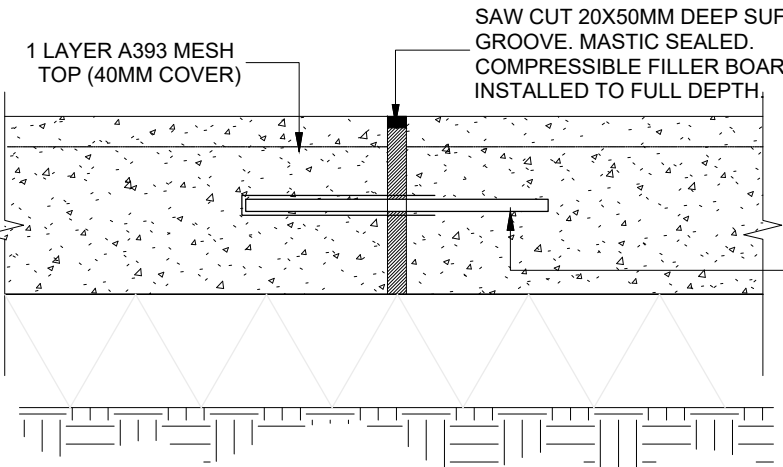
PRECAST CONCRETE CHANNEL
KERB TYPE CS2



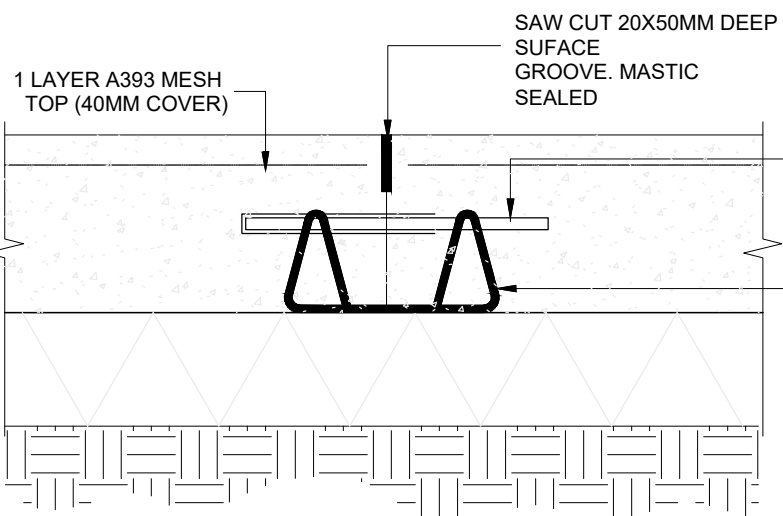
PRECAST CONCRETE BULLNOSED
KERB TYPE BN



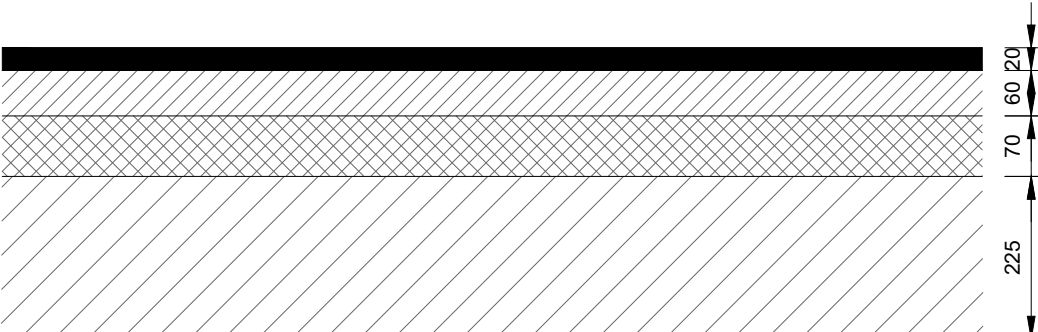
RESTRAINED MOVEMENT JOINT DETAIL



FREE-MOVEMENT EXPANSION JOINT DETAIL

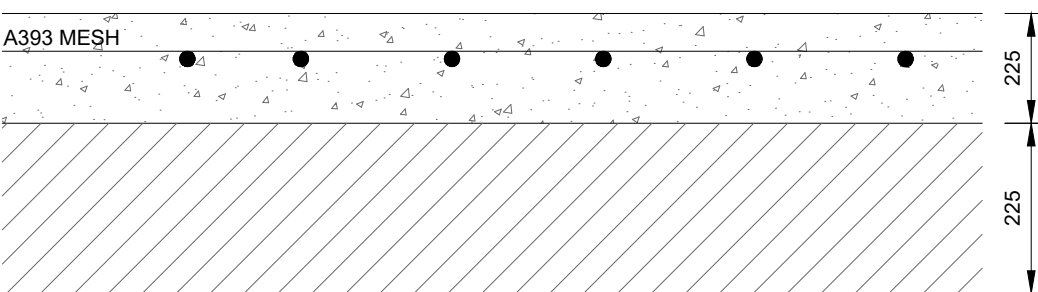


FREE-MOVEMENT CONTRACTION JOINT DETAIL



TARMAC ACCESS AND PARKING

SCALE 1:10



EXTERNAL CONCRETE HARDSTANDING

SCALE 1:10

Revision	Date	Drawn	Description
T1	25/09/22	JFH	Issued for Tender.
T2	26/05/23	CA	Revised to suit new site layout.

Client & Project

James Jones P&P Ltd
Wrexham Biomass & Dry Store

Address

JJPPL
Wrexham Industrial Estate,
Oak Road,
Wrexham,
LL13 9RG
Drawing Title

Proposed Construction Details

Status / Stage	Sheet	Scale @ A1	Drawn	Checked
D1	1 of 1	AS SHOWN	CA	AW

Drawing Number	Revision
S3220-BDN-Z4-XX-DR-C-0200	T2

0mm	100mm	200mm	400mm	600mm
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