

FOR PLANS, SECTIONS & DETAILS REFER TO THE FOLLOWING DRAWINGS:

4483-004	4483-005	4483-006	4483-007	4483-008	4483-009	4483-010	4483-011
PILECAP/RAMP LAYOUT:	CONCRETE RAMP DETAILS:	STEELWORK RAMP DETAILS:	ENLARGED PLANS:	STEELWORK RAMP SECTIONS:	RAMP ELEVATION:	PILE + PILECAP LAYOUT:	

- GENERAL NOTES
- THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS' SERVICE ENGINEERS' SPECIALISTS AND KIRKSAUNDERS' DRAWINGS, BILLS OF MATERIALS AND SPECIFICATION.
 - FOR THE PURPOSES OF CONSTRUCTION THIS DRAWING MUST NOT BE SCALED AND ONLY WRITTEN OR CALCULATED DIMENSIONS USED.
 - ALL WORKMANSHIP TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE RELEVANT BRITISH STANDARD. CODES OF PRACTICE SPECIFICATIONS AND TO THE APPROVAL OF THE BUILDING INSPECTOR AND CONTRACT ADMINISTRATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS PRIOR TO ORDERING OR FABRICATING ANY SET ITEMS.
 - DIMENSIONS MARKED BY "A" ARE SUBJECT TO CONFIRMATION BY SITE MEASURE AND GIVEN FOR GUIDANCE ONLY.
 - ALL BEAMS ARE REFERENCED BY DEPTH x BREATH UNLESS NOTED OTHERWISE.
 - ALL PROPRIETARY PRODUCTS ARE TO BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES AND TEMPORARY WORKS TO SAFELY CARRY OUT STRUCTURAL WORKS.

STEELWORK NOTES

- UNLESS NOTED OTHERWISE ALL STRUCTURAL STEEL SECTIONS TO BE S355J2H
- STRUCTURAL HOLLOW SECTIONS TO BE HOT FINISHED GRADE S355J2H
- ALL CONNECTIONS NEED TO BE ABLE TO WITHSTAND THE FACTORED VERTICAL END REACTIONS AS NOTED ON THE DRAWING AND A TENSILE FORCE EQUAL TO 75kN
- ALLOWANCE NEEDS TO BE MADE FOR ANY ADDITIONAL STIFFENERS TO COLUMN/BEAM CONNECTIONS IN ORDER TO STEEL FABRICATOR'S RESPONSIBLE FOR DETAILING DESIGN AND SETTING OUT OF ALL COLD FORMED SECONDARY STEELWORK AND ALL STRUCTURAL STEELWORK CONNECTIONS. ANY CONNECTIONS SHOWN ON KIRKSAUNDERS' DRAWINGS ARE INDICATIVE ONLY.
- ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ENGINEERS' SPECIALISTS AND KIRKSAUNDERS' DRAWINGS, BILLS OF MATERIALS AND SPECIFICATION.
- END REACTION FORCES ARE SHOWN WITH THEIR DEFINITIONS IN PARENTHESIS:
(V) VERTICAL SHEAR - kN
(M) MAJOR AXIS BENDING MOMENT - kNm
(A) AXIAL FORCE - kN
(T) TORSION - kNm
(H) HORIZONTAL SHEAR - kN
- ALL STEELWORK TO BE HOT DIP GALVANISED AND ALSO PREPARED & PAINTED WITH 125 MICRONS ZINC PHOSPHATE COATING. ALL STEELWORK TO BE PAINTED WITH 125 MICRONS ZINC PHOSPHATE COATING. NO PAINT REQUIRED TO COLUMNS CASTED IN CONCRETE.
- ALL BOLTS SHALL BE GRADE 8.8 MINIMUM 20mm DIAMETER, UNLESS NOTED OTHERWISE. WELDS SHALL BE MINIMUM 6mm CONTINUOUS FILLET, UNLESS NOTED OTHERWISE (BUTT WELDS SHALL BE TESTED).
- ALL HOLES THROUGH STEELWORK SHALL BE DRILLED. THE BURNING OF HOLES IS NOT ACCEPTABLE.
- NO NOTCHES, HOLES OR REBATES ETC. ARE TO BE CUT IN ANY MEMBER WITHOUT THE WRITTEN AGREEMENT OF THE ENGINEER.
- ALL STEELWORK SHALL HAVE ALL SHARP EDGES AND BURRS REMOVED.
- ALL STEELWORK BELOW GROUND LEVEL SHALL BE CASTED IN A MINIMUM 100mm OF CONCRETE.

NOTES		REV	DESCRIPTION	DATE
C1. NOTES ADDED (DETAIL E, G, +S) AS CLOUTIER		01	05.11.12	
C2. RC RAMP DETAILS (G + S) REVERSED		02	22.10.12	
F + G REV'D/ADDED. STEEL NOTES REVERSED.		03	02.09.12	
C3. ISSUED FOR CONSTRUCTION. STEEL BEAMS.		04	13.03.12	
F4. CONNECTION SECTIONS P-3 TO F-F ADDED.		05	05.03.12	
F5. ISSUED FOR TENDER.		06	05.03.12	

FOR CONSTRUCTION

kirksaunders
associates
CONSULTING ENGINEERS

11: 01989 896464
F: 01989 896282
E: info@kirksaunders.co.uk W: www.kirksaunders.co.uk
a: Priory Buildings, Church Hill, Ovington, Kent, BR6 9HH

CLIENT
SAINSBURY'S

ARCHITECT
CHQ PARTNERSHIP

PROJECT
WATERLOOVILLE RAMP

Drawing title
STEELWORK DETAILS
GENERAL ARRANGEMENTS

Drawn	Checked/Approved	Version	Scale
Dev	GC	FEB '12	A1
			1:20, 1:5

4483-007

C3