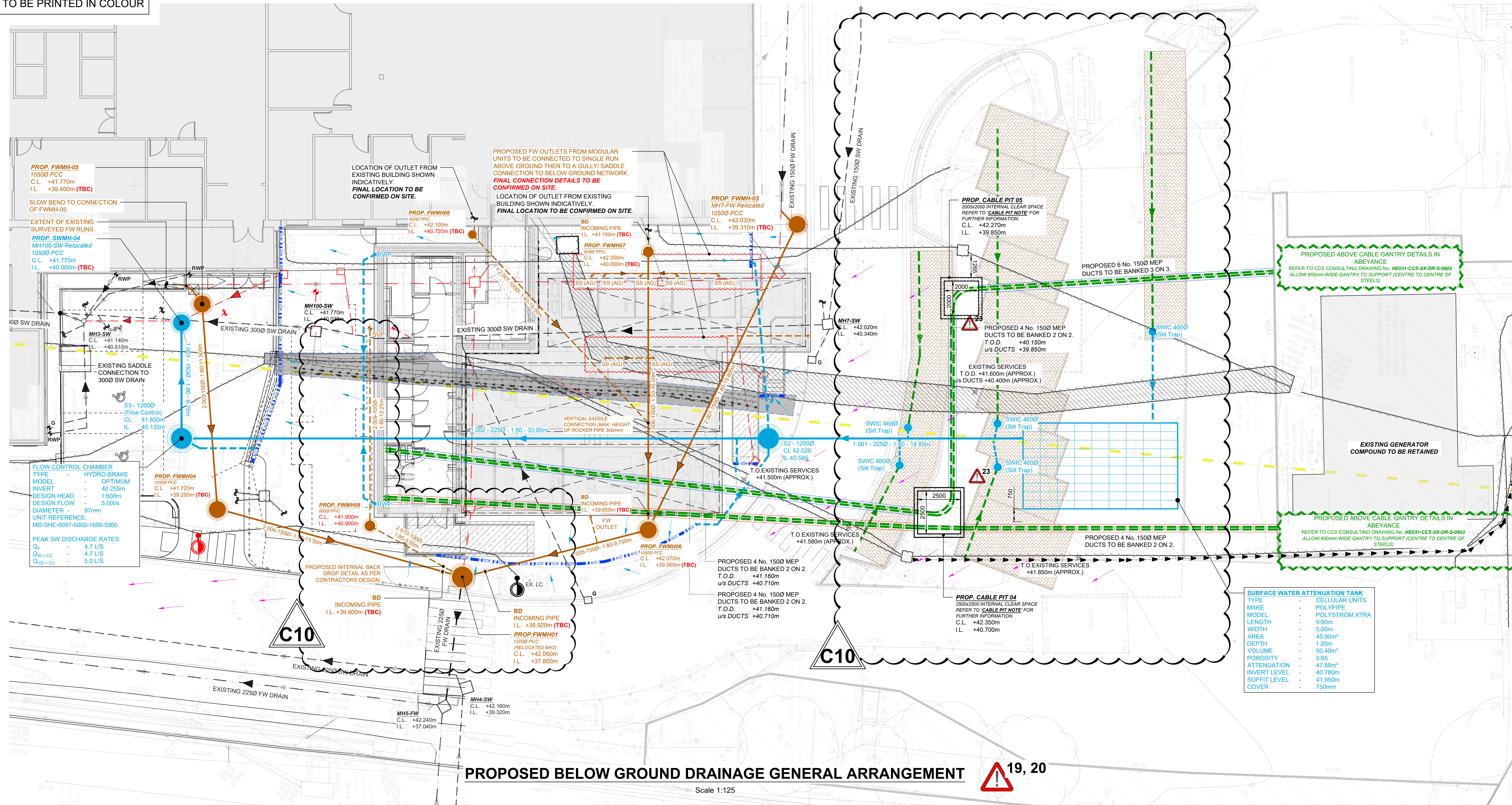




PROPOSED BELOW GROUND DRAINAGE GENERAL ARRANGEMENT

Scale 1:125



POTENTIAL DESIGN HAZARDS:
REFER TO CCS CONSULTING DESIGNERS RISK ASSESSMENT FOR FULL TABLE OF HAZARDS & WARNINGS.

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1. FULL GPR (UTILITIES) SURVEY TO BE UNDERTAKEN TO DETERMINE THE EXISTING BELOW GROUND SERVICES / CLASHES WITH THE PROPOSED WORKS (FOUNDATIONS). MANHOLES ARE CURRENTLY PRESENT UNDER THE PROPOSED SCHEME - AS SUCH, DIVERSION WORKS MAY BE REQUIRED. PRIOR TO THE COMMENCEMENT OF WORKS ON SITE, CAT SCAN ALL EXCAVATIONS AND PROVIDE OPERATIVES WITH ALL RECORDED STATS INFORMATION. ALL SERVICES INFORMATION TO BE VERIFIED BY THE CONTRACTOR AND IDENTIFIED ON SITE PRIOR TO COMMENCEMENT OF WORKS. BELOW GROUND DRAINAGE DESIGN / EXTERNAL WORKS SUBJECT TO CHANGE FOLLOW RECEIPT OF PROPOSALS. ADDITIONAL COST IMPLICATIONS AND REDESIGN TIMESCALES TO BE CONSIDERED FOLLOWING CONFIRMATION OF THE PROPOSED REROUTING WORKS.

2. FOUNDATION EXCAVATION SIDES MAY REQUIRE TEMPORARY SUPPORT TO PREVENT INSTABILITY OR BACK SLOPING BY 45° MAXIMUM GRADIENT. CONTRACTOR TO PROVIDE A METHOD STATEMENT FOR TEMPORARY GROUND STABILITY WORKS.

7. LOCATION ISSUES WITH A CONGESTED SITE / AREA. CAREFUL COORDINATION WILL BE REQUIRED TO ENSURE AN ACHIEVABLE DELIVERY / INSTALLATION METHODOLOGY. CBR CHECKS TO BE UNDERTAKEN TO ALL PROPOSED CRANE OUTRIGGER LOCATIONS. OVERSIZED SPREADERS MAY BE REQUIRED TO BRING APPLIED BEARING PRESSURES WITHIN ALLOWABLE LIMITS TBC.

19. ALL PROPOSED DRAINAGE LOCATIONS/ REQUIREMENTS FOR LINK CORRIDOR AND MODULES (RWP's & SVP's) TO BE CONFIRMED BY SPECIALIST MODULAR SUPPLIERS.

23. INDICATIVE POSITION OF PROPOSED PCC CABLE TURNING PIT/ PCC CABLE DUCTWORK/ TROUGHS. SHOWN AS 2000x2000 CLEAR INTERNAL SPACE REQUIRED (MIN.) ALL SET-OUT SIZES/ LOCATIONS/ DEPTHS TO BE CONFIRMED BY MEP CONSULTANT.

LEGEND

— DENOTES EXISTING COMBINED DRAIN

- - - DENOTES EXISTING FOUL WATER DRAIN

- - - DENOTES EXISTING SURFACE WATER DRAIN

≈ DENOTES EXTENT OF EXISTING SURVEYED DRAINAGE RUN. END OF TRACE/ SURVEY ABANDONED DUE TO OBSTRUCTION. REFER TO CCTV SURVEY.

— DENOTES REDUNDANT DRAIN - TO BE REMOVED/ CARPED - USAGE AS PER EXISTING LINE TYPES

— DENOTES PROPOSED COMBINED DRAIN

— DENOTES PROPOSED PRIMARY FOUL WATER DRAIN

— DENOTES PROPOSED SECONDARY FOUL WATER DRAIN - ALL RUNS TO BE 1000 U.N.O.

— DENOTES PROPOSED SURFACE WATER DRAIN

— DENOTES PROPOSED SECONDARY SURFACE WATER DRAIN - ALL RUNS TO BE 1000 U.N.O.

— DENOTES PROPOSED CHANNEL/ SLOT DRAIN

— DENOTES PROPOSED 1500 PERFORATED PIPE

XXXXX DENOTES PROPOSED PERMEABLE PAVING LOCATION. **REFER TO PERMEABLE PAVING NOTE.**

← DENOTES EXCEEDANCE FLOW ROUTES

⊕ DENOTES EXISTING RWP/ SVP - AS NOTED (SHOWN INDICATIVELY - FINAL LOCATIONS TBC ON SITE)

⊕ DENOTES PROPOSED FW GROUND FLOOR PENETRATION (SHOWN INDICATIVELY - FINAL LOCATIONS AS PER ARCHITECTS SET OUT)

⊕ DENOTES PROPOSED RWP LOCATION AS PROVIDED BY ARCHITECT (SHOWN INDICATIVELY - FINAL LOCATIONS AS PER ARCHITECTS SET OUT)

— DENOTES EXISTING BELOW GROUND LV CABLE/ DUCTING

— DENOTES EXISTING BELOW GROUND GAS MAIN ROUTES - **ASSUMED TBC ON SITE.**

⊕ DENOTES EXISTING LIGHTING COLUMN AS RECEIVED TOPOGRAPHICAL INFORMATION.

⊕ DENOTES EXISTING LIGHTING COLUMN TO BE REMOVED/ RELOCATED. **FINAL DETAILS TO BE CONFIRMED BY M&E CONSULTANT.**

MH DENOTES MANHOLE LOCATION

PPIC DENOTES INSPECTION CHAMBER LOCATION

FG DENOTES FOUL WATER GULLY LOCATION

SVP DENOTES SOIL VENT PIPE LOCATION

SS DENOTES STUB STACK LOCATION

G DENOTES GULLY

RE DENOTES RODDING EYE LOCATION

BIG DENOTES BACK INLET GULLY

BD DENOTES BACK DROP LOCATION

LC DENOTES LIGHTING COLUMN LOCATION

— DENOTES PROPOSED LV M&E CABLE/ DUCTING - DETAILS AS PER M&E CONTRACTORS SPECIFICATION.

— DENOTES EXISTING FUEL PIPE IDENTIFIED ON SITE. LOCATION BASED OFF RECEIVED SITE SURVEY.

NETWORK EXCEEDANCE EVENT NOTE

IN THE EVENT OF AN EXTREME STORM EVENT (GREATER THAN 100-YEAR + 45% CLIMATE CHANGE), POTENTIAL FLOODING OF THE DRAINAGE NETWORK COULD OCCUR.

SURFACE WATER FLOW PATHS WILL FOLLOW EXISTING AND PROPOSED GROUND TOPOGRAPHY, WHERE WATER WILL FLOW IN A NORTHERLY DIRECTION AND INTO THE EXISTING ACCESS ROAD.

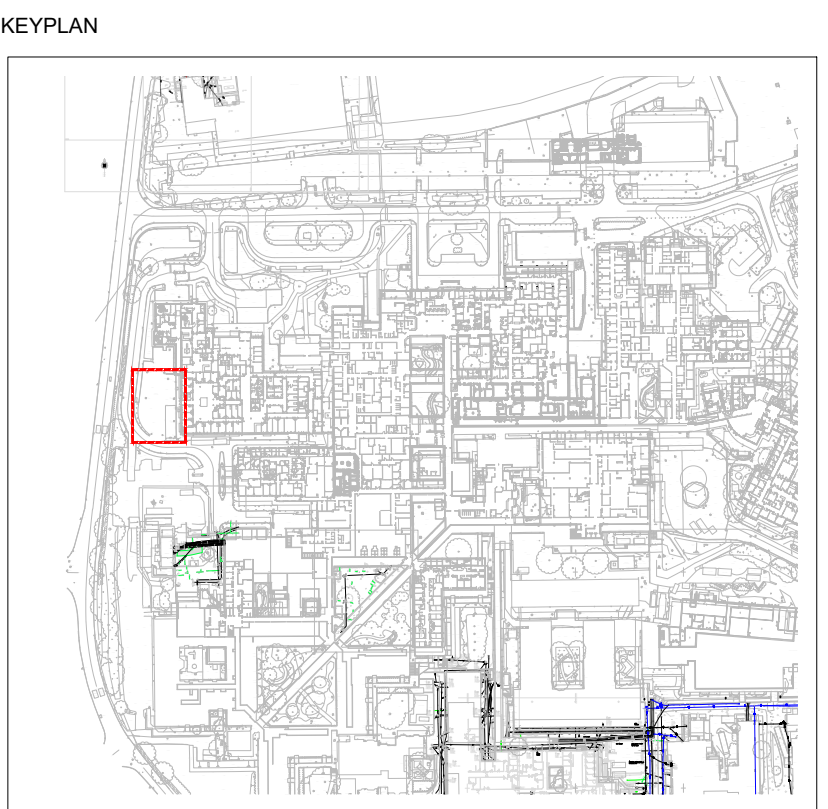
FLOOD WATER WILL FLOW AWAY FROM THE NEW TLHC BUILDING AND WILL NOT FLOW DIRECTLY TOWARDS EXISTING BUILDINGS PRIOR TO DISCHARGE ONTO THE ROAD. THERE ARE NO BELOW GROUND ATTENUATION VOLUMES IN THE EXISTING EXTERNAL AREAS, AND THEREFORE, THE VOLUME OF WATER AT SURFACE WILL ALWAYS BE 44.6M³ (TOTAL PROPOSED ATTENUATION) LESS IN A POST DEVELOPMENT SCENARIO. THEREFORE, THERE WILL ALWAYS BE A REDUCED RISK OF FLOODING TO THE EXISTING BUILDINGS / LAND NEAR THE SITE.

CABLE PIT NOTE

- FOR CLEAR INTERNAL CABLE PIT DIMENSIONS REFER TO GENERAL ARRANGEMENT.
- INTERNAL CLEAR SIZE REQUIREMENTS NOTED HAVE BEEN PROVIDED BY MEP CONSULTANT - REFER TO MEP SPECIFICATIONS FOR FINAL DETAILS.
- ALL CABLE PIT COVERS TO BE DESIGNED TO D400 (MIN.). ACCESS REQUIREMENTS FOR CABLE PITS TO BE CONFIRMED BY MEP CONSULTANT.
- CABLE PIT CONSTRUCTION TO MAIN CONTRACTOR/ SUB-CONTRACTOR DESIGN.

- notes :**
- IF THIS DRAWING HAS BEEN RECEIVED ELECTRONICALLY IT IS THE RECIPIENTS RESPONSIBILITY TO PRINT THE DOCUMENT TO THE CORRECT SCALE
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. IT IS RECOMMENDED THAT INFORMATION IS NOT SCALED OFF THIS DRAWING
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS
 - ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
 - REFER TO FOLLOWING CCS CONSULTING DRAWINGS FOR FURTHER PLANS AND DETAILS.
 - HE031-CCS-ZZ-DR-S-0001-GENERAL NOTES
 - HE031-CCS-XX-DR-S-0100-EXTERNAL WORKS PLAN
 - HE031-CCS-XX-DR-S-0101-EXTERNAL WORKS TYPICAL DETAILS
 - HE031-CCS-XX-DR-S-0201-BGD TYPICAL DETAILS (SHEET 01)
 - HE031-CCS-XX-DR-S-0202-EXISTING BELOW GROUND SERVICES PLAN
 - HE031-CCS-XX-DR-S-0203-BGD TYPICAL DETAILS (SHEET 02)
 - HE031-CCS-XX-DR-S-0300-FOUNDATION PLAN
 - HE031-CCS-XX-DR-S-0400-CORRIDOR SUPERSTRUCTURE PLAN
 - HE031-CCS-XX-DR-S-0800-TYPICAL SECTIONS & DETAILS

PERMEABLE PAVING NOTE
PERMEABLE PAVING OVER 300mm DEEP, 20mm NO FINES AGGREGATE TO FORMED OVER PROPOSED PARKING BAYS. SURFACE WATER TO BE CONVEYED TO FLOW CONTROL CHAMBER VIA PERFORATED PIPE BELOW 300mm AGGREGATE



C10	OVERFLOW CAR PARK WORKS REINSTATED FOLLOWING CONFIRMATION FROM CONTRACTORS/ CLIENTS TEAM.	20.10.25	JF	JPF
C9	ADDITIONAL CORRIDOR SVP ADDED FOLLOWING RECEIPT OF LATEST MEP ABOVE GROUND DRAINAGE LAYOUT.	29.09.25	JF	JPF
C8	FOUNDATION DETAILS UPDATED TO SUIT LATEST CONTRACTORS COMMENTS. CABLE PIT 05 POSITION AMENDED AS PER CONTRACTORS REQUEST.	25.06.25	JF	JPF
C7	ADDITIONAL FW MANHOLE ADDED FOLLOWING FURTHER SITE DISCOVERED DRAINS	12.06.25	JF	JPF
REV.	DESCRIPTION	DATE	DRW.	CHK.

NHS

Manchester University

NHS Foundation Trust

APPOINTED PARTY LOGO/INFORMATION

ccs consulting

MANCHESTER • LONDON • LEEDS

PROJECT

WYTHENSHAW HOSPITAL - TARGETED LUNG HEALTH CHECK (TLHC)

TITLE

PROPOSED BELOW GROUND DRAINAGE PLAN

STATUS	PURPOSE OF ISSUE
D4	FOR CONSTRUCTION

DRAWN BY	CHECKED BY	DATE
JF	JPF	SEPT. '24

SCALE (@A1)	PROJECT NUMBER
AS SHOWN	HE-031

FILE DRAWING NUMBER	REV.
HE031 - CCS - D4 - XX-DR - S - 0200	C10