KEY:

SITE INFRASTRUCTION

— HV — HV —	YEDL HV CABLE ROUTE BURIED AT 900mm(MIN) BFFL
	PRIVATE EXTERNAL SERVICES DUCT ROUTES.
——— – ———	100mmø PVC LOW VOLTAGE SERVICES DUCTS. BURIED AT 450mm(MIN) BFFL (600mm (MIN) BFFL - CARRIAGE WAYS)
——— – – ———	100mmø PVC EXTRA LOW VOLTAGE SERVICES DUCTS BURIED AT 450mm(MIN) BFFL (600mm (MIN) BFFL - CARRIAGE WAYS)
— G — G —	GAS MAIN ROUTE BURIED AT 750mm(MIN) BFFL. NOTE; WHERE THE DENOTATION 'PRIVATE' IS PRESENT GAS MAIN IS PRIVATE.
	PRIVATE WATER MAIN ROUTE.
— PW — PW —	PORTABLE WATER MAIN (90mmø MDPE) BURRIED AT 900mm (MIN) BFFL
— BW — BW —	FIRE FIGHTING WATER MAIN (INCOMING FEED - 125mmø MDPE) BURRIED AT 900mm (MIN) BFFL
● 01	CABLE CHAMBER (FINAL SPECIFICATION BY CIVILS/STRUCTURAL ENGINEER) THE FOLLOWING PREFIXES DENOTE; D1 – TURNING CHAMBER FOR LOW VOLTAGE SERVICES D2 TURNING CHAMBER FOR EXTRA LOW VOLTAGE SERVICES

SECURITY

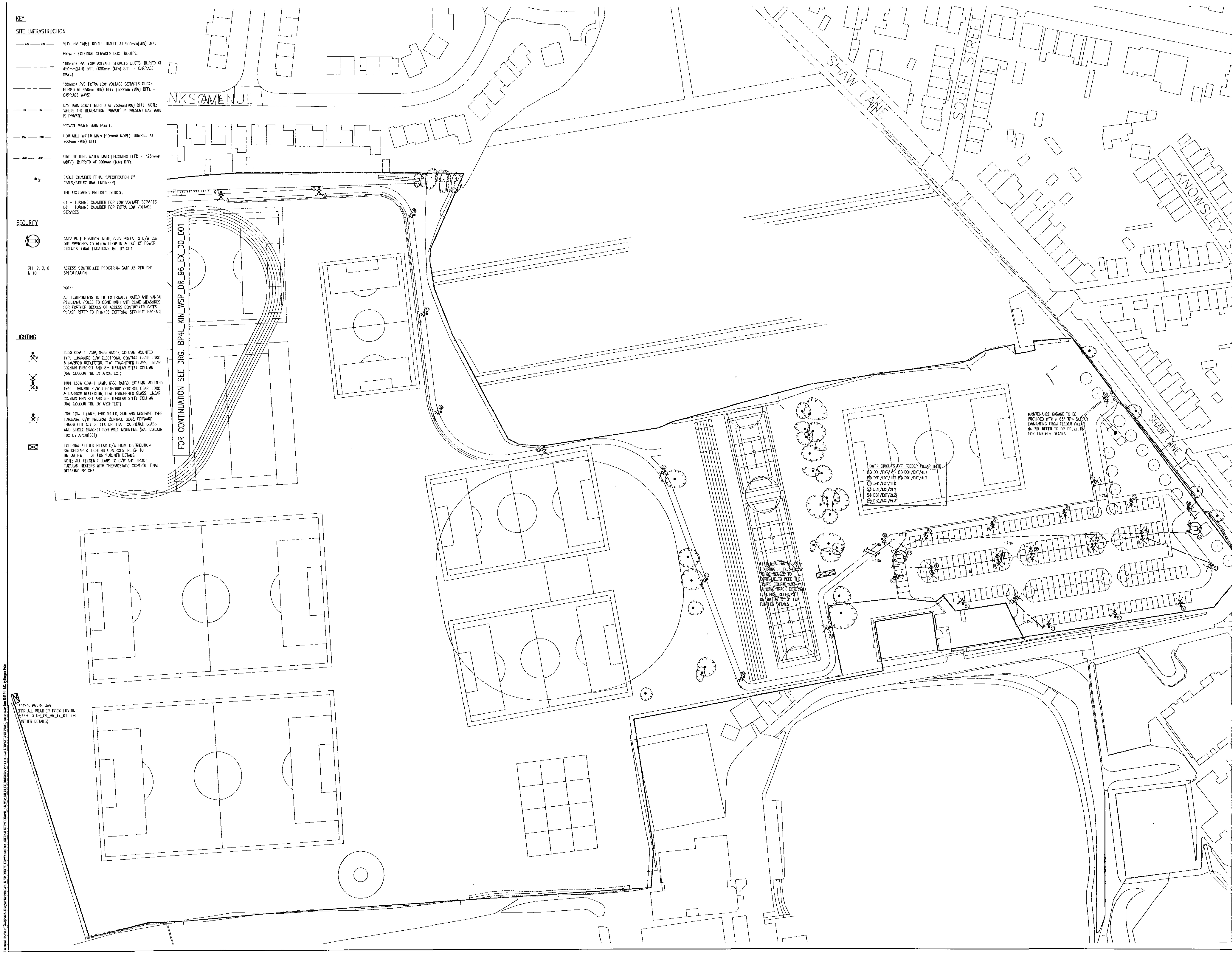
	CCTV POLE POSITION. NOTE, CCTV POLES TO C/W CUT OUT SWITCHES TO ALLOW LOOP IN & OUT OF POWER CIRCUITS. FINAL LOCATIONS TBC BY CHT
GT1, 2, 3, 8 & 10	ACCESS CONTROLLED PEDISTRIAN GATE AS PER CHT SPECIFICATION

NOTE:

ALL COMPONENTS TO BE EXTERNALLY RATED AND VANDAL RESISTANT. POLES TO COME WITH ANTI CLIMB MEASURES FOR FURTHER DETAILS OF ACCESS CONTROLLED GATES PLEASE REFER TO PLINKES EXTERNAL SECURITY PACKAGE

LIGHTING

A	150W CDM-T LAMP, IP66 RATED, COLUMN MOUNTED TYPE LUMINAIRE C/W ELECTRONIC CONTROL GEAR, LONG & NARROW REFLECTOR, FLAT TOUGHENED GLASS, LINEAR COLUMN BRACKET AND 6m TUBULAR STEEL COLUMN (RAL COLOUR TBC BY ARCHITECT)
B	TWIN 150W CDM-T LAMP, IP66 RATED, COLUMN MOUNTED TYPE LUMINAIRE C/W ELECTRONIC CONTROL GEAR, LONG & NARROW REFLECTOR, FLAT TOUGHENED GLASS, LINEAR COLUMN BRACKET AND 6m TUBULAR STEEL COLUMN (RAL COLOUR TBC BY ARCHITECT)
F	70W CDM-T LAMP, IP66 RATED, BUILDING MOUNTED TYPE LUMINAIRE C/W INTEGRAL CONTROL GEAR, FORWARD THROW CUT OFF REFLECTOR, FLAT TOUGHENED GLASS AND SINGLE BRACKET FOR WALL MOUNTING (RAL COLOUR TBC BY ARCHITECT)
☒	EXTERNAL FEEDER PILLAR C/W FINAL DISTRIBUTION SWITCHGEAR & LIGHTING CONTROLS. REFER TO DR_09_BW_LL_01 FOR FURTHER DETAILS NOTE; ALL FEEDER PILLARS TO C/W ANTI FROST TUBULAR HEATERS WITH THERMOSTATIC CONTROL. FINAL DETAILING BY CHT


NKSØAVENUE
SHAW LANE
SOUTH STREET
KNOWSLEY S
SHAW LANE
FOR CONTINUATION SEE DRG. BP4L_KIN_WSP_DR_96_EX_00_001
MAINTENANCE GARAGE TO BE PROVIDED WITH A 63A TPN SUPPLY EMANATING FROM FEEDER PILLAR No 3B REFER TO DR_09_LL_01 FOR FURTHER DETAILS
POWER CIRCUITS OFF FEEDER PILLAR No3B
60 DB1/EXT/1L1
61 DB1/EXT/1L2
62 DB1/EXT/1L3
63 DB1/EXT/2L1
64 DB1/EXT/2L2
65 DB1/EXT/2L3
66 DB1/EXT/4L1
67 DB1/EXT/4L2
GT10
1No
FEEDER PILLAR No3A/3B (EXISTING FEEDER PILLAR TO BE REUSED TO CONTINUE TO FEED THE TENNIS COURTS AND RUNNING TRACK EXTERNAL LIGHTING) REFER TO DR_09_BW_LL_01 FOR FURTHER DETAILS
FEEDER PILLAR No4 (FOR ALL WEATHER PITCH LIGHTING REFER TO DR_09_BW_LL_01 FOR FURTHER DETAILS)

NOTES:

1. THIS DRAWING SHOWS THE DESIGN INTENT ONLY AND REQUIRES FURTHER DETAILING BY LOR, CHT AND THE OTHER DESIGN TEAM MEMBERS
2. REFER TO THE ARCHITECTS DOCUMENTATION FOR ALL SETTING OUT INFORMATION INTERNALLY WITHIN THE BUILDING
3. REFER TO THE LANDSCAPE ARCHITECTS DOCUMENTATION FOR ALL SETTING OUT INFORMATION EXTERNALLY TO THE BUILDING.
4. REFER TO STRUCTURAL ENGINEERS DOCUMENTATION FOR ALL DETAILS & SETTING OUT INFORMATION OF FOUNDATIONS, TRENCHING AND INCOMING SERVICES PENETRATIONS
5. REFER TO CIVIL ENGINEERS DOCUMENTATION FOR ALL DETAILS & SETTING OUT INFORMATION OF HIGHWAYS, SURFACE WATER DRAINAGE & FOUL DRAINAGE.
6. REFER TO KINGFISHER'S EXTERNAL LUMINAIRE SCHEDULE FOR DETAILS OF ALL LUMINAIRES AND LIGHTING COLUMN TYPES/FINISHES/ETC (NOTE, ALL TYPES/FINISHES ETC TO BE AGREED WITH CLIENT & RELEVANT DESIGN TEAM MEMBERS).
7. ALL SERVICE ENTRY DUCTS ENTERING INTO THE BUILDING SHALL TERMINATE AT THE ELECTRICAL RISER CUPBOARD LOCATED TRENCH UNLESS STATED OTHERWISE.
8. LOR SHALL ALLOW FOR ALL EARTHWORKS ASSOCIATED WITH THE PROVISION OF INCOMING UTILITY SERVICES FROM THE SITE BOUNDARY TO THE TERMINATION POINTS SHOWN WITHIN THE ALC DEVELOPMENT.
9. ALL CABLEWAYS INCLUDING CABLE TURNING CHAMBERS SHALL BE PROVIDED BY LOR SUCH THAT ALL SERVICES ARE INSTALLED SEPARATELY.
10. CHT SHALL NOTE THE FOLLOWING,

    EARTH CONDUCTORS SHALL BE PROVIDED IN ACCORDANCE WITH BS7430 & ALL CURRENT AMENDMENTS & CONNECTED TO THE PENULTIMATE EXTERNAL LIGHTING COLUMNS TO ENSURE THE RESISTANCE TO EACH OF THE NEUTRAL POINTS IS LESS THAN 20Ω BEFORE ANY CURRENT PROTECTIVE OR BONDING CONDUCTORS ARE CONNECTED TO THE NEUTRAL TERMINAL.
11. ALL STATUATORY AUTHORITIES SHALL BE CONTACTED PRIOR TO COMMENCING ANY INSTALLATION WORKS ASSOCIATED WITH THE INSTALLATION OF THE STATUATORY AUTHORITY'S EQUIPMENT. ALL WORKS INCLUDING EQUIPMENT SPECIFICATIONS ARE SUITABLE, APPROVED & MEET THE NEEDS OF THE STATUATORY AUTHORITY ASSOCIATED.
12. LOR SHALL BE RESPONSIBLE FOR CO-ORDINATING THE PHASING OF THE INSTALLATION OF THE STATUATORY AUTHORITY EQUIPMENT
13. ENC/YEDL LV SUBSTATION TO BE CONSTRUCTED TO ENC/YEDL/CE ELECTRIC SPECIFICATION (NOTE; REFERENCE SHOULD BE MADE TO POWER ON CONNECTIONS CONTRUCTION DRAWINGS).
14. THE LIGHTING CURFEW TO COMMENCE FROM 23.00HRS ONWARDS (THE FLOODLIT TENNIS AND FOOTBALL PITCH TO HAVE A LIGHTING CURFEW OF 22.00HRS). THE LIGHTING CURFEW TO APPLY TO THE COLUMN MOUNTED LUMINAIRES ONLY (BUILDING MOUNTED FITTINGS FOR SECURITY PURPOSES AND FUNCTIONING OF THE CCTV SYSTEM WILL REMAIN ON UNTIL DAWN).
15. IT IS THE INTENTION TO LIMIT THE EXTENT OF DUCTING TO AREAS OF HARD STANDING ONLY. WHERE SOFT DIG IS PRESENT THEN SERVICES SHALL BE BURIED DIRECT UNLESS STATED OTHERWISE.
16. NOT USED
17. ALL COLUMN MOUNTED EXTERNAL CCTV CAMERAS AND COLUMN MOUNTED LUMINAIRES TO COME WITH BSEN62305 CATEGORY 1&2 TYPE ELECTRONIC SURGE PROTECTION DEVICES
18. REFERENCE SHOULD BE MADE TO THE NJUG DOCUMENTS FOR GUIDANCE ON THE POSITIONING OF ALL UNDERGROUND APPARATUS FOR NEW DEVELOPMENT SITES
19. SERVICES DUCTS ENTER INTO THE ELECTRICAL RISERS VIA THE TYPICAL DUCT ENTRY DETAIL. REFER TO DETAIL 4 FOR FURTHER DETAILS
20. DUCTS MAKE SLOW SWEEPING BENDS AND COORDINATE WITH THE FINAL SWITCHGEAR POSITIONS TO ALLOW SERVICES TO BE ROUTED ON FINAL INSTALLATION.
23. EXTERNALLY DISTRIBUTED SPRINKLER MAINS TO BE SIZED BY THE SPRINKLER SYSTEM SPECIALIST.
24. REFERENCE SHOULD BE MADE TO THE FOLLOWING MEP SERVICE DRAWINGS INCONJUNCTION WITH THIS DRAWING.
    - DR_62_BW_xx_xx SERIES
    - DR_54_xx_xx_xxx SERIES
    - DR_53_xx_xx_xxx SERIES
    - DR_50_EC_00_01
    - DR_BW_LL 502 & 503

REV	DATE	BY	DESCRIPTION	CHK	APP
C01	16.01.11	SK	FOR CONTRACT	SK	SK
P01	13.10.10	SK	PRELIMINARY ISSUE	SK	SK

DRAWING STATUS:
FOR CONTRACT

WSP
Three White Rose Office Park, Millshaw Park Lane, Leeds, LS11 0DL
Tel: +44 (0)113 395 6200 Fax: +44 (0)113 395 6201
www.wspgroup.com

CLIENT:
Barnsley Partnership For Learning
LAING O'ROURKE

ARCHITECT:

PROJECT:
HOLGATE KINGSTONE ALC

TITLE:
COMBINED MEP SERVICES LAYOUT
EXTERNAL SERVICES
SHEET 2 OF 2

SCALE @ A0:	CHECKED:		APPROVED:
1:500	SK		SK
PROJECT No:	DESIGNED:	DRAWN:	DATE:
24321403	SK	SK	SEPT '10

DRAWING No: BP4L_KIN_WSP_DR_96_EX_00_003
REV: C01

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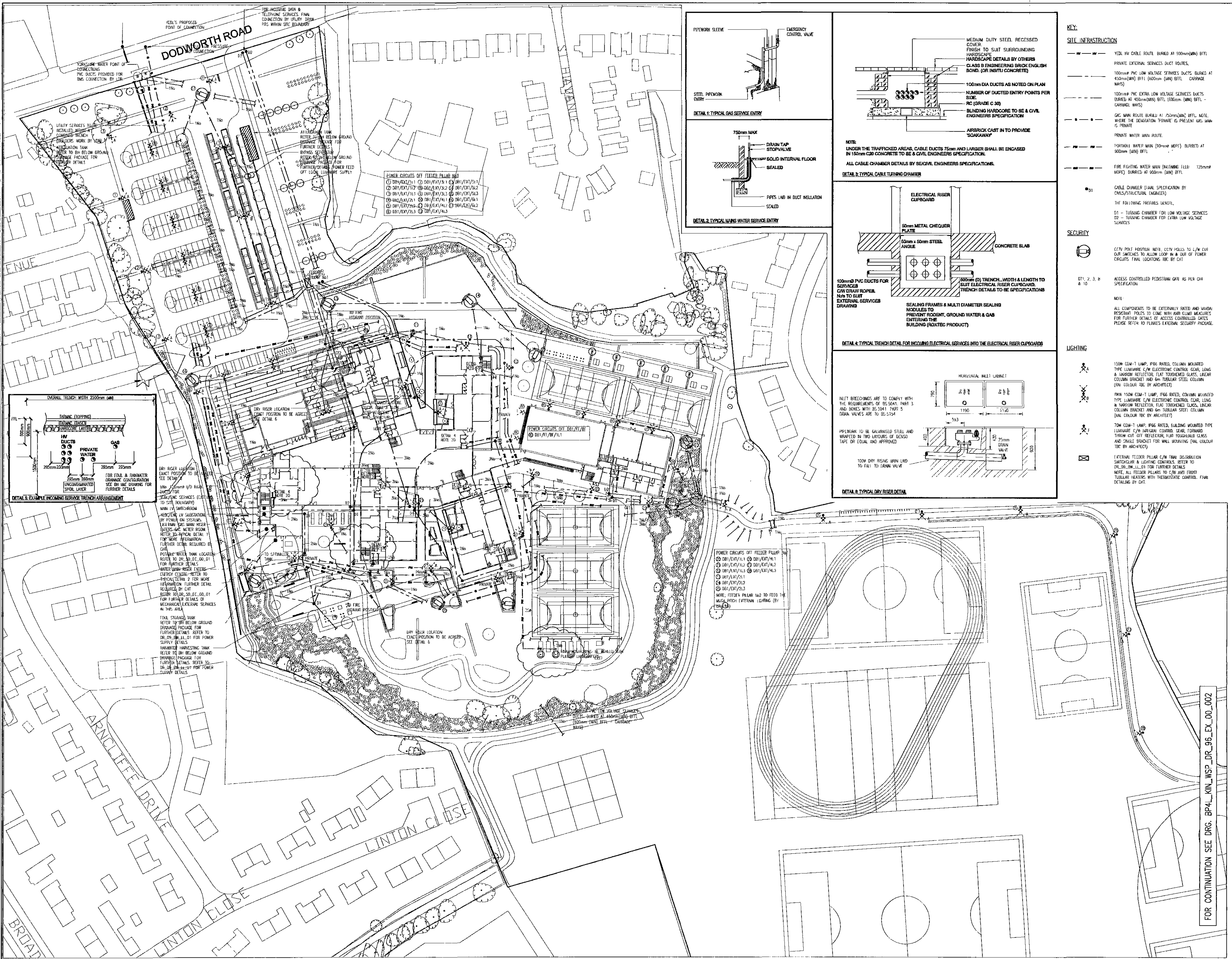
File name L:\PROJECTS\24321403 ... 00_003 REV P01 EXTERNAL SERVICES 2 OF 2.DWG, plotted on 03 June 2011 11:18:52, by Morgan, Peter


DODWORTH ROAD
ARNCLIFFE DRIVE
LINTON CLOSE
BROAD
YEDL'S PROPOSED POINT OF CONNECTION
FOR INCOMING DATA & TELEPHONE SERVICES. FINAL CONNECTION BY UTILITY DRAW PITS WITHIN SITE BOUNDARY
POWER CIRCUITS OFF FEEDER PILLAR No1
① DB1/EXT/1L1 ⑦ DB1/EXT/3L1 ⑬ DB1/EXT/5L1
② DB1/EXT/1L2 ⑧ DB1/EXT/3L2 ⑭ DB1/EXT/5L2
③ DB1/EXT/1L3 ⑨ DB1/EXT/3L3 ⑮ DB1/EXT/5L3
④ DB1/EXT/2L1 ⑩ DB1/EXT/4L1 ⑯ DB1/EXT/6L1
⑤ DB1/EXT/2L2 ⑪ DB1/EXT/4L2 ⑰ DB1/EXT/6L2
⑥ DB1/EXT/2L3 ⑫ DB1/EXT/4L3
POWER CIRCUITS OFF FEEDER PILLAR No2
⑳ DB1/EXT/1L1 ㉖ DB1/EXT/4L1
㉑ DB1/EXT/1L2 ㉗ DB1/EXT/4L2
㉒ DB1/EXT/1L3 ㉘ DB1/EXT/4L3
㉓ DB1/EXT/2L1
㉔ DB1/EXT/2L2
㉕ DB1/EXT/2L3
NOTE: FEEDER PILLAR No2 TO FEED THE MUGA PITCH EXTERNAL LIGHTING (BY OTHERS)
POWER CIRCUITS OFF DB1/FT/BF
DRY RISER LOCATION EXACT POSITION TO BE AGREED SEE DETAIL 6
TO SPRINKLER TANK
PRIVATE
1No
2No
3No
PIPEWORK SLEEVE
EMERGENCY CONTROL VALVE
STEEL PIPEWORK ENTRY
DETAIL 1: TYPICAL GAS SERVICE ENTRY
750mm MAX
DRAIN TAP
STOPVALVE
SOLID INTERNAL FLOOR
SEALED
PIPES LAID IN DUCT INSULATION
SEALED
DETAIL 2: TYPICAL MAINS WATER SERVICE ENTRY
MEDIUM DUTY STEEL RECESSED COVER. FINISH TO SUIT SURROUNDING HARDSCAPE
HARDSCAPE DETAILS BY OTHERS
CLASS B ENGINEERING BRICK ENGLISH BOND. (OR INSITU CONCRETE)
100mm DIA DUCTS AS NOTED ON PLAN
NUMBER OF DUCTED ENTRY POINTS PER SIDE.
RC (GRADE C 30)
BLINDING HARDCORE TO SE & CIVIL ENGINEERS SPECIFICATION
AIRBRICK CAST IN TO PROVIDE 'SOAKAWAY'
NOTE:
UNDER THE TRAFFICKED AREAS, CABLE DUCTS 75mm AND LARGER SHALL BE ENCASED IN 150mm C20 CONCRETE TO SE & CIVIL ENGINEERS SPECIFICATION.
ALL CABLE CHAMBER DETAILS BY SE/CIVIL ENGINEERS SPECIFICATIONS.
DETAIL 3: TYPICAL CABLE TURNING CHAMBER
ELECTRICAL RISER CUPBOARD
50mm METAL CHEQUER PLATE
50mm x 50mm STEEL ANGLE
CONCRETE SLAB
100mmØ PVC DUCTS FOR SERVICES C/W DRAW ROPES. No's TO SUIT EXTERNAL SERVICES DRAWING
600mm (D) TRENCH...WIDTH & LENGTH TO SUIT ELECTRICAL RISER CUPBOARD. TRENCH DETAILS TO SE SPECIFICATIONS
SEALING FRAMES & MULTI DIAMETER SEALING MODULES TO PREVENT RODENT, GROUND WATER & GAS ENTERING THE BUILDING (ROXTEC PRODUCT)
DETAIL 4: TYPICAL TRENCH DETAIL FOR INCOMING ELECTRICAL SERVICES INTO THE ELECTRICAL RISER CUPBOARDS
OVERALL TRENCH WIDTH 2500mm (MIN)
FFL
600mm
900mm
1500mm
TARMAC (TOPPING)
TARMAC (BASE)
HARDCORE LAYER
HV DUCTS
PRIVATE WATER
GAS
295mm 200mm
295mm 260mm
295mm 295mm
UNCONTAMINATED SPOIL LAYER
FOR FOUL & RAINWATER DRAINAGE CONFIGURATION SEE BH I&E DRAWING FOR FURTHER DETAILS
DETAIL 5: EXAMPLE INCOMING SERVICE TRENCH ARRANGEMENT
HORIZONTAL INLET CABINET
Dry riser inlet
Dry riser drain
790
1190
1190
593
400
430
900
25mm DRAIN VALVE
INLET BREECHINGS ARE TO COMPLY WITH THE REQUIREMENTS OF BS 5041, PART 3 AND BOXES WITH BS 5041 PART 5 DRAIN VALVES ARE TO BS 5154
PIPEWORK TO BE GALVANISED STEEL AND WRAPPED IN TWO LAYOURS OF DENSO TAPE OR EQUAL AND APPROVED
100Ø DRY RISING MAIN LAID TO FALL TO DRAIN VALVE
DETAIL 6: TYPICAL DRY RISER DETAIL

KEY:

SITE INFRASTRUCTION

— HV — HV —	YEDL HV CABLE ROUTE BURIED AT 900mm(MIN) BFFL
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DO NOT SCALE

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- DR_62_BW_xx_xx SERIES
- DR_54_xx_xx_xxx SERIES
- DR_53_xx_xx_xxx SERIES
- DR_50_EC_00_01
- DR_BW_LL_502 & 503

FOR CONTINUATION SEE DRG. BP4L_KIN_WSP_DR_96_EX_00_002

REV	DATE	BY	DESCRIPTION	CHK	APP
C05	18.04.11	TB	HORTICULTURE GARDEN TAP ADDED AS DESIGN TEAM COMMENTS	WA	WA
C04	25.03.11	SK	CCTV CAMERA RELOCATED	JP	JP
C03	21.03.11	TB	GAS ADDED TO BLOCK B	WA	WA
C02	07.03.11	TB	REVISED TO SUIT FLOOR LAYOUTS	WA	WA
C01	16.02.11	SK	FOR CONTRACT	SK	SK
P02	04.11.10	SK	PRELIM ISSUE – DETAIL 5 ADDED	SK	SK
P01	13.10.10	SK	PRELIMINARY ISSUE	SK	SK

DRAWING STATUS:
FOR CONTRACT

WSP
Three White Rose Office Park, Millshaw Park Lane, Leeds, LS11 0DL
Tel: +44 (0)113 395 6200 Fax: +44 (0)113 395 6201
www.wspgroup.com

CLIENT:
Barnsley Partnership For Learning
LAING O'ROURKE

ARCHITECT:

PROJECT:
HOLGATE KINGSTONE ALC

TITLE:
COMBINED MEP SERVICES LAYOUT
EXTERNAL SERVICES
SHEET 1 OF 2

SCALE @ A0:	CHECKED:		APPROVED:
1:500	SK		SK
PROJECT No:	DESIGNED:	DRAWN:	DATE:
24321408	SK	SK	SEPT '10

DRAWING No: BP4L_KIN_WSP_DR_96_EX_00_002
REV: C05

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