

NOTES

- SITE LIGHTING TO COMPLY WITH CIBSE SLL LIGHTING GUIDE 01 INDUSTRIAL ENVIRONMENT & LIGHTING GUIDE 06 THE EXTERNAL ENVIRONMENT AND IS EN 12464-2.
- ALL EXTERIOR LIGHTING SHALL COMPLY WITH CODE OF PRACTICE FOR THE DESIGN OF ROAD LIGHTING BS5489-1:2020, EN13201-2015, IS EN 12464-2, NATIONAL RULES FOR ELECTRICAL INSTALLATION IS10101:2020- PART 1 GENERAL REQUIREMENTS & PART 2.3 PARTICULAR REQUIREMENTS FOR PUBLIC LIGHTING INSTALLATIONS AND IN ACCORDANCE WITH CLIENT SITE SPECIFIC REQUIREMENTS.
- SITE LIGHTING DUCTING SHALL COMPLY WITH BSEN 50086-1-2-3-4 LATEST EDITION & SHALL BE SINGLE WALL, COLORED RED & MANUFACTURED FROM HIGH DENSITY POLYPROPYLENE. THE NOMINAL EXTERNAL DIAMETER OF THE DUCT SHALL BE 107mm WITH A MINIMAL WALL THICKNESS OF 5mm. EACH LENGTH OF DUCT SHALL BE STAMPED WITH THE WORDS "PUBLIC LIGHTING", OR ALTERNATIVELY, "STREET LIGHTING", IN 18mm BLACK LETTERING AT 0 DEGREES, AT ONE METRE INTERVALS. DUCT SHALL BE LAID WITH THIS LEGEND FACING UPWARDS. DUCT SHALL BE LAID IN A STRAIGHT LINE CLOSE TO THE LINE OF THE COLUMN LOCATIONS & SHALL CONTAIN A CONTINUOUS DRAW WIRE OF 8KN STRENGTH. ALL DUCTS SHALL BE PROVEN WITH BRUSH AND MANDRILL, POLYPROPYLENE ROPED AND PLUGGED AND COMPLAINT WITH I.S. 10101 REQUIREMENTS RED DUCT SHALL BE USED FOR EXTERIORS LIGHTING CABLES.
- A MINIMUM DEPTH OF 600mm COVER IS REQUIRED IN URBAN PATHWAYS & A MINIMUM OF 600mm COVER IS REQUIRED FOR GRASS MARGINS, PEDESTRIAN WAYS, LANEWAYS & GATEWAY ENTRANCES & A MINIMUM DEPTH OF 750mm IS REQUIRED AT ROAD CROSSINGS OR IN CARRIAGEWAYS.
- ALL CABLE DRAW INSPECTION PITS SHALL BE OF DUCTILE IRON GALVANISED STEEL FRAME WITH FRAME OPENING OF 615mm x 615mm TO CONFORM TO EN1248125 MARKED "PUBLIC LIGHTING" OR TRAFFIC WITH M16 STAINLESS STEEL LOCKING BOLT. ALL CABLE DRAW INSPECTION PITS FOR USE ON CARRIAGEWAYS SHALL BE OF THE SAME DIMENSION AS ABOVE WITH HIGH STRENGTH ENGINEERING OR SITU CONCRETE. COVERS AND FRAMES SHALL BE APPROVED BY LICENSED BODY NSAI OR BRITISH STANDARDS INSTITUTE OF QUALITY ASSURANCE SERVICES.
- ALL EQUIPMENT TO BE SUITABLY IP & IK RATED FOR THE ENVIRONMENT THEY ARE BEING INSTALLED.
- LIGHT COLUMN SETBACK SHALL BE 0.8M FROM KERB, WHERE APPLICABLE, IN ACCORDANCE WITH BS5489-1 TABLE 2. SITE LIGHTING CABLING IN VICINITY OF MAIN BUILDING TO TERMINATE ON DISTRIBUTION BOARDS. SITE LIGHTING ACROSS CAR PARK TO TERMINATE IN SITE MINI PILLARS AND TO BE CONTROLLED VIA ASTRONOMICAL TIMECLOCK & INFRA RED SENSOR FOR LIGHTING ACTIVATION.
- PUBLIC LIGHTING COLUMNS TO BE CONSTRUCTED OF GALVANISED STEEL, DOOR OPENING WIDTH OF 110mm AND COMPLY WITH THE REQUIREMENTS OF EN40 STANDARDS.
- SEPARATION DISTANCES FROM ESB OVERHEAD LINES IS TO BE MAINTAINED AS PER ESB CODE OF PRACTICE FOR WORKING IN THE VICINITY OF OVERHEAD LINES (2019) AT ALL TIMES.
- ESB NETWORKS DUCT ROUTES TO MINI PILLAR TO BE CONFIRMED WHEN ESB NETWORK SUB-STATION LOCATION IS FINALISED.
- CABLE DUCT CHAMBER LOCATIONS SHOWN TO BE CONFIRMED. A MINIMUM SEPARATION DISTANCE FROM TREE ROOTS OF 2.5M TO BE MAINTAINED AT ALL TIMES.
- ALL LUMINAIRES, MOUNTED ON STREET POLES/ COLUMNS TO INCORPORATE BUILT IN PHOTOCELL FROM WESTIRE TECHNOLOGY ACRO SERIES - AcRo230N1-1D1C.
- ALL STREET LIGHT POLES TO INCORPORATE A POLE CUT-OUT FUSE WITHIN INSPECTION OPENING AND MOUNTED ON BACK BOARD. FUSE SWITCH TO BE DOUBLE POLE - TO SPECIFICATION: LUCY FUSE UNIT DOUBLE POLE 12013 MC040DN-CZ-192.

SCHEDULE OF SYMBOLS

ITEM KEY:	DESCRIPTION:
	SITE LIGHTING DUCT (1No. Ø110mm DUCT)
	BOLLARD LUMINAIRE NOBLE ITALIA SLIM BOLLARD, LED DALI / ED 1242lm / 10.5W / 3000K ANTHRACITE GRAY - 75mm X 75mm X 900mm H.
	EXISTING POLE LUMINAIRE (TO REMAIN IN PLACE)

P1	PRELIMINARY ISSUE	ES	ST	NP	25/02/25
REV	ISSUE	DRN	ENG	APP	DATE

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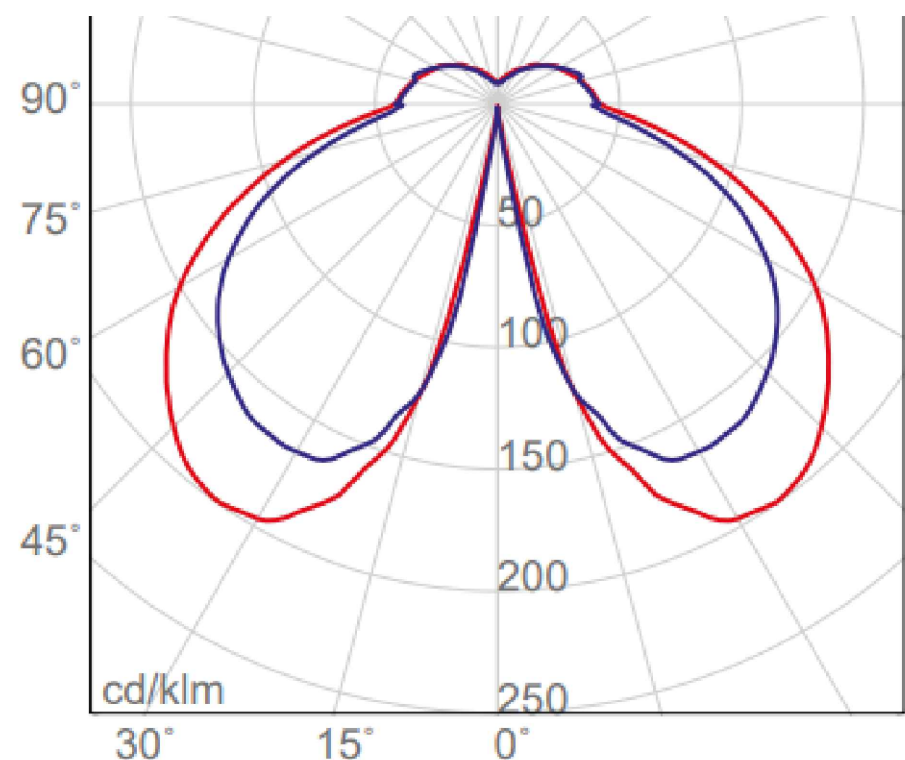
CLIENT	LEFGEM LTD		
ARCHITECT	DARMODY ARCHITECTURE		
PROJECT	JOHNSTOWN ESTATE EXTENSION Co. MEATH		
DISCIPLINE	ELECTRICAL SERVICES INSTALLATION		
DRAWING TITLE	SITE LIGHTING LAYOUT ISOLUX - SITE PLAN		
DRAWING No.	SCALE	REV	
F014-PMPE-00-00-DR-E-02	1:300@A1 1:600@A3	P1	



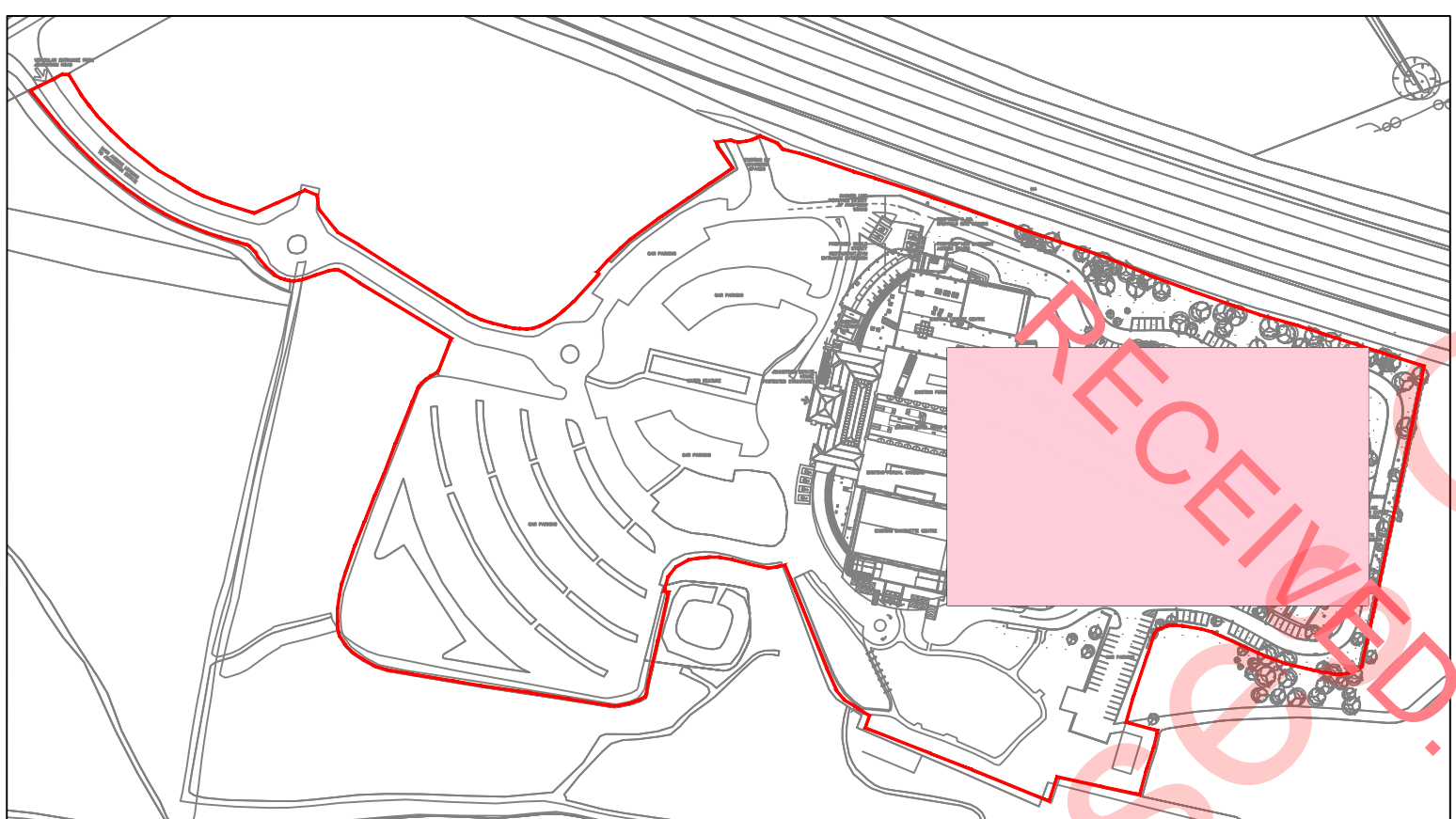
BOLLARD TYPE LUMINAIRE



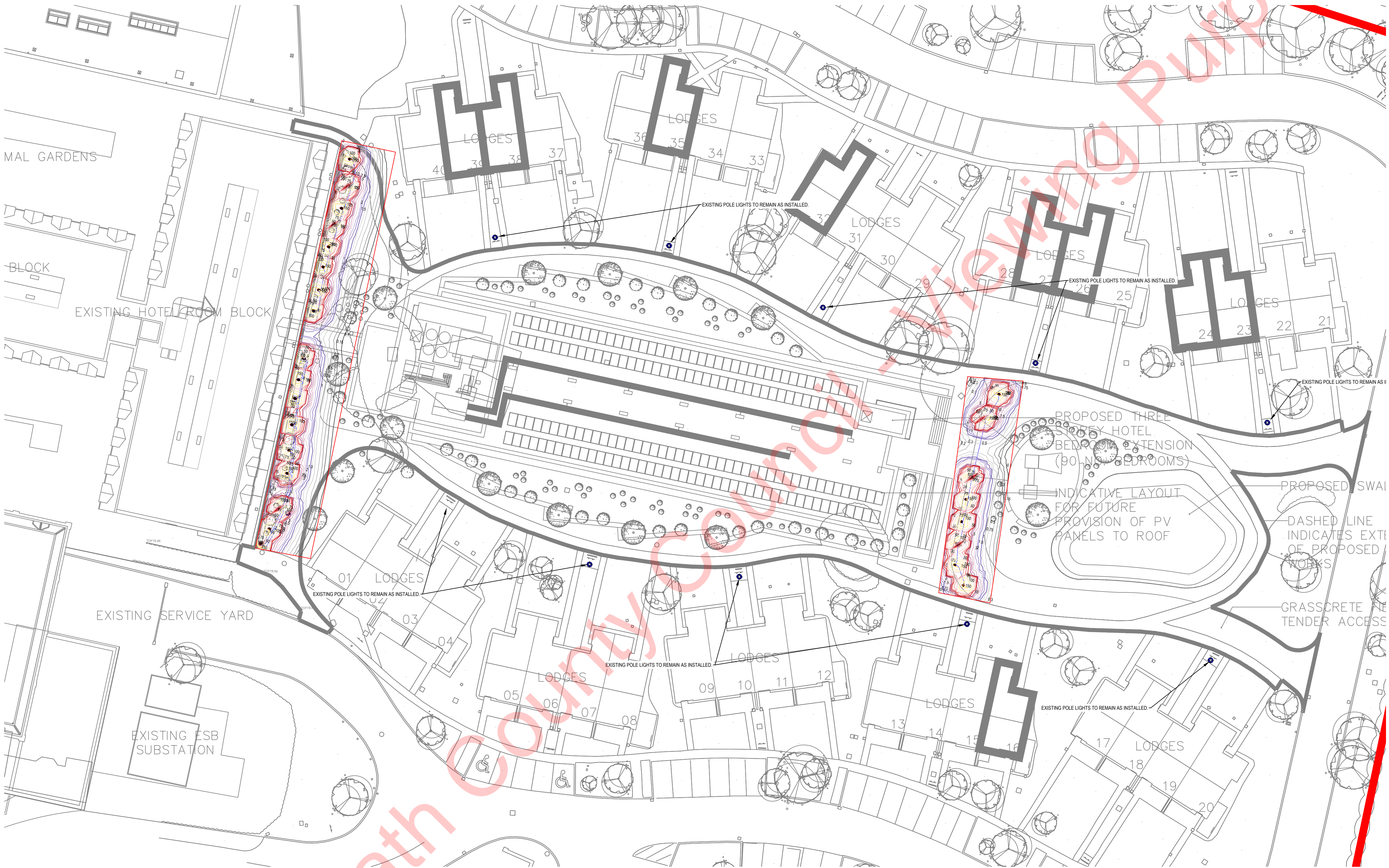
EXISTING LUMINAIRE



BOLLARD POLAR CURVE



KEY PLAN  
SCALE N.T.S.



SITE SERVICES LAYOUT- SITE PLAN  
SCALE 1:300

