### $\boldsymbol{\varpi}$ NOTE: NO ALLOWANCE HAS BEEN MADE FOR THE CO-ORDINATION OF A ACTIVITIES OR FOR THE INTERFACES WITH OTHER EQUIPMENT IN THIS MUST BE AGREED PRIOR TO INSTALLATION. THE SIZE OF THE FILTRATION PLANT ROOM HAS BEEN DESIGNED IN ACCORDANCE WITH PUBLISHED GUIDANCE & THE WATER TREATMENT PLANT AND EQUIPMENT LAID OUT IN ACCORDANCE WITH THE POOL DESIGN STANDARD PRACTICE. ADEQUATE PROVISION HAS BEEN MADE FOR SAFE DAILY OPERATOR ACCESS & FOR EFFECTIVE EFFICIENT ONGOING SERVICE & MAINTENANCE OF THE ENTIRE SYSTEM. FILTRATION PLANT **IMPORTANT** FOR NOTES & MAINTENANCE N R ယ OTHER T S SPACE, 20 TRADE E, WHICH 7 ATMENT 80 a) MAIN CIRCULATING F b) STRAINERS c) HEAT EXCHANGERS d) HEAT EXCHANGER B HEATING <u>PLINTHS</u> INCOMING ELECTRICAL ANTS ELECTRICAL SUPPLY SERVICES SUPPLY **BOOSTER** PUMPS 5 REQUIRED PUMPS 7 TO ELECTRICAL QUIREMENTS CONTROL 6 PANEL. IT MUST BE KEPT DRY & FREE FROM CONTACT WITH ORGANIC MATERIALS eg. OIL, OIL PRODUCTS, DETERGENTS, CLEANING FLUIDS AND ACIDS. IT SHOULD BE STORED IN SEALED CONTAINERS, OFF WET FLOORS & AWAY FROM PIPES & HEAT OF ANY FORM. "NO SMOKING" SIGNS SHOULD BE INSTALLED IN THE STORAGE AREA. C02 CALCIUM HYPOCHLORITE TREATMENT PLANT PH CORRECTION $\infty$ 10

12

LPHW AT 80°C FLOW & (
ELECTRICALLY ACTUATED (
TEMPERATURE CONTROL T
UPVC POOL PIPEWORK. % 60°C RETURN REQUIRED TO D CONTROL VALVE, WIRING, 1 I THERMOSTATS c/w ST.ST. I TO THE HEAT EXCHANGERS c/w, 100mm LONG WORKING & HIGH INTO

### PUMP

 $\circ$ 

SOUND PROOFING

MINIMUM NUMBER OF R. THE TEMPERATURE

AIR CHANGES REQUIRED IN THE SHOULD NOT FALL BELOW 10°C

E PLANTROOM IS OR RISE ABOVE

4 PER 30°C.

VENTILATION

PLANTROOM DEAFENING /

AND NOISE VIBRATION REQUIREMENTS

Ħ

ACOUSTIC,

SOUND,

INSULATION,

BACKWASH DRAINAGE COUPLINGS SUITABLE

FOR INDUSTRIAL

REQUIRED II

N PLANTROOM

C/W

w ADAPTOR A FLOW OF:-

BACKWASH (BW)

PLANTROOM SLAB LEVEL TO BE 1.0m MINIMUM I LEVEL. IF THIS IS NOT POSSIBLE THEN A PUMP 2725mm × 2655mm × 1200mm DEEP c/w:-BELOW THE P POOL D BE INCORPORATED

 $\ensuremath{\mathtt{G}})$  DRAIN SUMP: SHOULD THE DRAINAGE LEVEL RECESS SUMP SHOULD BE INCORPORATED AND BE HIGHER THAN THE A SUMP PUMP INSTALL LED. MHE

b) DAVIT HOIST, DISMOUNTABLE SAFETY ALTERNATIVELY SHIP TYPE LADDERS AS HANDRAIL, ACCES STAIR

### SETTING TUO

 $\Box$ 

0

MAIN POOL

FILTER

38.5m3/HR,

90mm

o.d.

PIPE

- d) POOL STRUCTURES
  b) BALANCE TANKS
  c) DATUM LEVELS
  d) PIPE TRENCHES AND EXCAVATIONS
  e) POSITION/LOCATION OF INLETS, OUTL OUTLETS AND OTHER

ARE ALL TO BE CARRIED OUT BY BUILDING CONTRACTOR

## BALANCE TANK

Ш

(2) HYPO 15mm BIE

CHEMICAL STORAGE
3 TAP & HOSE UNIO

NOINU

ROOM, LOCAL TO CONNECTION.

 $\overline{0}$ 

CHEMICAL

BUND

AREA

FITTED

 $\leq$ 

BB

(1) MAIN POOL

BALANCE TANK 28mm

CONNECTION,

5m3/HR.

TO MEET STORAGE VESSEL,

THE LATEST GENERAL BY-LAWS IT TANK WITH TYPE A-F AIR GAP. C/NRV(s) TO SUPPLY THE FOLLOWING

BY-LAWS IT IS NECESSARY TO AIR GAP. C/W PACKAGE PUMP

PROVIDE SET & E

DE A WATER EXPANSION

NRV(s)

COLD WAT BYELAWS, MINIMUM.

Ħ

SUPPLY ADEQUATELY E PRESSURE IN THE

INE SHOULD BE 2 Bar

WATER REGULATIONS & MAXIMUM AND 1 Bar

WATER

SUPPLIES (CWS)

TO BE PROVIDED IN GRP c/w WATERPROOF/AIRTIGHT ACCESS/ESCAPE MANHOLES, VENT, OVERFLOW, AUTOMATIC MAKE-UP, INLET & OUTLET CONNECTIONS. SHOULD (MATERIAL BE SELECTED TANK MUST BE INSTALLED TO MANUFACTURERS RECOMMENDATIONS INCLUDING CONCRETE SUPPORT & SURROUND. LOAD BEARING STRUCTURAL SLAB MAY BE REQUIRED ABOVE TANK IF POSITIONED IN ROADWAY OR ON VEHICLE ACCESS ROUTE. MANHOLES, IS. SHOULD GRP

## BELFAST SINK

TO BE PROVIDED IN THE PLANTROOM IN A LOCATION CLOSE TO THE CHEN STORES. THE SINK IS REQUIRED TO BE SUPPLIED BY THE MAIN/PRINCIPAL CONTRACTOR TO FACILITATE THE CLEANING OF INJECTORS AND ONGOING MAINTENANCE. CHEMICAL

П

(6)

15mm COLD

80

WARM BIB

TAP

CONNECTION TO

THE PLANTROOM

SINK

(5) SAFI

SHOWER

A HOT

WATER

28mm AT 2BAR. CONSIDERATION SUPPLY C/W A THERMOSTATIC I

N SHOULD BE MIXER VALVE.

GIVEN

 $_{\square}$ 

ALS0

(4) INITIAL

POOL

F

28mm

8

TAP

80

HOSE

NOINO

C/W

0

METRE

HOSE.

(3) AC 15mm

ACID CHEMICAL STORAGE ROOM, LOCAL T nm BIB TAP & HOSE UNION CONNECTION.

10

CHEMICAL

BUND

AREA

FITTED

 $\mathbb{A} = \mathbb{A}$ 

## VENTILATION

PER TE MINIMUM NUMBER OF AIR HOUR. THE TEMPERATURE CHANGES SHOULD I S REQUIRED NOT FALL E D IN THE E CHEMICAL STORES IS 10°C OR RISE ABOVE 30°C.

a) THE pH CORRECTION OF THE POOL WATER BY THE INJECTION OF CARBON DIOXIDE (FORMING CARBONIC ACID), HAS THE ADVANTAGE THAT IT IS A CLEAN, EASILY STORED & MAINTAINED SYSTEM CAPABLE OF ENHANCING THE STRUCTURAL CONCENTRATION OF CO2 FOUND NATURALLY OCCURRING IN THE PH CORRECTION OF OF CARBON DIOYING

IT IS RECOMMENDED THAT MEANS BE PROVIDED TO PREVENT CASUAL PEDESTRIAN ACCESS ADJACENT TO THE TANKER OFF-LOADING. ACCESS ROUTE/EQUIPMENT TO PROVIDED TO ENABLE SAFE SUPPLY OF ALL CHEMICALS FROM DELIVERY POINT TO REQUIRED AREAS IN PLANTROOM—TO LOCAL H&S EXECUTIVE RECOMMENDATIONS. 100 BE

LIGHTING

ADEQUATE LIGHTING MUST BE INSTALLED AT THE INTAKE POINT AND THROUGHOUT THE STORAGE AREAS SO THAT ROAD TANKER DELIVERIES CAN BE MADE SAFELY DURING HOURS OF DARKNESS.

# EYEWASH BOTTLES

A SEALED STERILE TYPE INTAKE POINT AND LOCAL OF EYEWASH BOTTLE SHOULD BE LOCATED L TO THE CHEMICAL STORES. NEAR  $\overline{0}$ 

# SAFETY SHOWER

A SAFTEY SHOWER SHOULD BE FITTED, PREFERABLY WITH AN EYEWASH FOUNTAIN. SUCH INSTALLATIONS SHOULD BE PROVIDED WITH ADEQUATE PROTECTION AGAINST FREEZING. THE SHOWER SHOULD BE WITHIN 4 TO 5 METRES OF THE INTAKE POINT AND SHOULD BE SHEILDED FROM THE TANKER DISCHARGE POINT. A SAFETY SHOWER IS RECOMMENDED LOCAL TO THE CHEMICAL STORES.

# HAZARD WARNINGS

THE CONVENTIONAL HAZARD WARNING SIGNS AND WEATHERPROOF GUIDANCE NOTICE, GIVING THE SAFETY PRECAUTIONS AND EMERGENCY ACTIONS SPECIFIC FOR SODIUM HYPOCHLORITE, SHOULD BE DISPLAYED NEAR TO THE INTAKE POINT.

## SEGREGATION

IT IS EXTREMELY IMPORTANT THAT SEPARATE ENCLOSURES BE MAINTAINED FOR INDIVIDUAL USE AND STORAGE OF POTENTIALLY HAZARDOUS CHEMICALS. THEREFORE EACH CHEMICAL ROOM MUST BE SEPARATELY VENTILATED WITH A MINIMUM OF 4 AIR CHANGES PER HOUR.

## EFFLUENT DRAIN

THIS MUST BE SUITABLE FOR THIS MUST BE SUITABLE FOR THE EVENT OF THE DISPOSAL OF THE VARIOR SPILLAGES & WASH WATER. VARIOUS CHEMICALS THAT MAY

## COMMISSIONING

COMMISSIONING OF THE WATER FILTRATION & TREATMENT PLANT REQUIRES THAT CLEANING THE POOL & FILLING WITH WATER IN ASSOCIATION WITH THE PROVISION OF POWER, HEAT & CHEMICALS BE PROVIDED FREE OF CHARGE.

### GENERAL

CHEMICAL STORAGE AREA STORAGE AREAS. 3.0m HIGH c/w COVERED ROOF GIVEN CONTAINED

I

G

00000

L TO MAIN CIRCULATING PUMPS
L TO FILTER VESSELS
L TO CHEMICAL CONTROLLERS
L TO CHEMICAL AREA
L TO THE SINK AREA

LOCAL

PUMPS

LOCAL

N.B. DRAIN SUMP: SHOULD THE DRAINAGE LEVEL BE HIGHER THAN THE SLAB THEN A RECESS SUMP WITH GALVENISED GRID COVER SHOULD BE INCORPORATED AND A MACERATOR SUMP PUMP INSTALLED C/W DISCHAFDRAIN.

DISCHARGE

PIPE

PLANTROOM

GULLEYS

(FG)

1.8m FOR |

NIDE x 2m HIGH REN

n HIGH REMOVAL INSUL N/REMOVAL OF PLANT.

INSULATED/ACOUSTIC

PANELS

9

DOOR

REQUIRED

PLANT REMOVAL

	Project Name
COUNCIL	Architectural Services
	Resources & Regulation
	Department For

REVISIONS

22/2/18

В	SLP2012-21.01	9
Revision	0	Drawing No
	22/2/18	NTS @A2
Drawn Approved	Date	Scale
VICES NOTES	MECHANICAL SERVICES NOTES	
APY POOL	itle HYDROTHERAPY POOL	Drawing Title
TENDER ISSUE	SLP2012 .	S
	Status	Project No
ELMS BANK SPECIALIST ARTS COLLEGE-PHASE 2-HYDROTHERAPY POOL	K SPECIALIST ARTS COLLEGE	ELMS BAN
	me	Project Name
COUNCIL	Architectural Services	Arc