



ESTABLISHMENT OF SBK WOMEN'S UNIVERSITY SUB-CAMPUS PISHIN BALOCHISTAN

VOLUME,4 - PACKAGE,4

01-EXTERNAL DEVELOPMENT

ARCHITECTURAL DRAWINGS

ELECTRICAL DRAWINGS

PUBLIC HEALTH DRAWINGS

ROADS INFRASTRUCTURE

TENDER DRAWINGS

OCTOBER, 2021



G3 ENGINEERING CONSULTANTS (PVT.) LTD.

Consulting Engineers – Architects – Planners



ISO 2000-9001

CERTIFIED

COMPANY

**ARCHITECTURAL DRAWINGS
EXTERNAL DEVELOPMENT**

AS PER PC-1 BUILDINGS 
 FUTURE EXTENSION BUILDINGS 

LEGEND:

- 1- ENTRANCE GATE
- 2- ACADEMIC BLOCK
- 3- ADMIN BLOCK
- 4- LIBRARY
- 5- MULTI-PURPOSE HALL, MEDICAL CENTRE, CAFETERIA
- 6- STUDENT HOSTELS
- 7- FACULTY HOSTELS
- 8- MOSQUE
- 9- PARKING
- 10- AUDITORIUM
- 11- ADMISSION OFFICE / COMMERCIAL BANK
- 12- WORKSHOP + TRANSPORT YARD
- 13- PRIMARY SCHOOL
- 14- DAY CARE CENTRE
- 15- BOTANICAL GARDEN
- 16- COMMERCIAL AREA
- 17- SPORTS FIELD
- 18- LOWER SCALE RESIDENCES
- 19- HIGHER SCALE RESIDENCES
- 20- GUEST HOUSE
- 21- VC HOUSE
- 22- FORMAL LAWNS
- 23- OPEN AIR THEATRE



CLIENT:

 **SBK WOMEN'S
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BALOCHISTAN**



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PROJECT:

Sardar Bahadur Khan Women's
University Sub Campus Pishin
Balochistan

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TENDER DRAWINGS

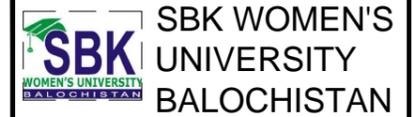
DRAWING TITLE:

MASTER PLAN

DRAWN BY: M.ZAHID	DATE: Oct, 2021
CHECKED BY: Pr.Ar. Abdul Qadir	
DRAWING NO: 0228/ 001 / 002 ARC	REV: 0
SCALE (A3): N.T.S	SHEET: 02/10

SEWERAGE SYSTEM PLAN
& SECTIONAL DETAILS DRAWINGS

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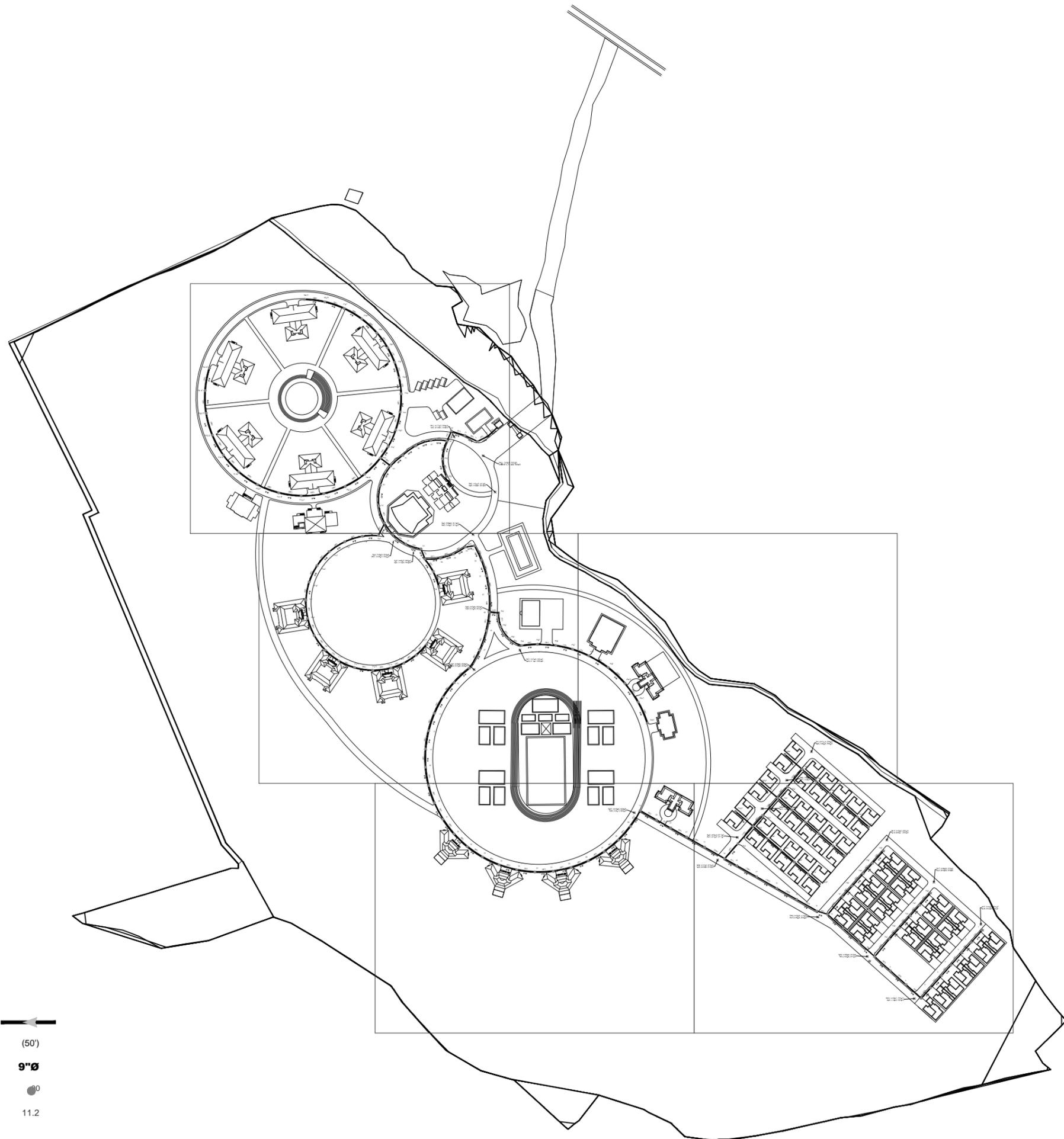
DRAWING TITLE:

LIST OF DRAWING

DRAWN BY: S.A	DATE: Oct, 2021
CHECKED BY: Engr. Wasif Ali	
DRAWING NO: 0229/001/000 L.D	REV: 0
SCALE (A3): N.T.S	SHEET: 1/6

LIST OF DRAWINGS

S.NO	DESCRIPTION	DRG.NO:
WATER SUPPLY SYSTEM		
01	SEWERAGE SYSTEM PART PLAN	WS-01 TO WS-05
02	MANHOLE AND MISCELLANEOUS	WS-06
03	HOUSE CONNECTION	WS-07
04	TRENCH R.C.C PIPE DETAILS	WS-08



LEGEND:

PROPOSED SEWERAGE SYSTEM	
DISTANCE	(50')
SEWER DIA	9"Ø
MANHOLE	
MANHOLE NUMBER	11.2

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REVISIONS:

No.	DESCRIPTION	DATE

TENDER DRAWINGS

DRAWING TITLE:

**PROPOSED SEWERAGE SYSTEM
LAYOUT PLAN**

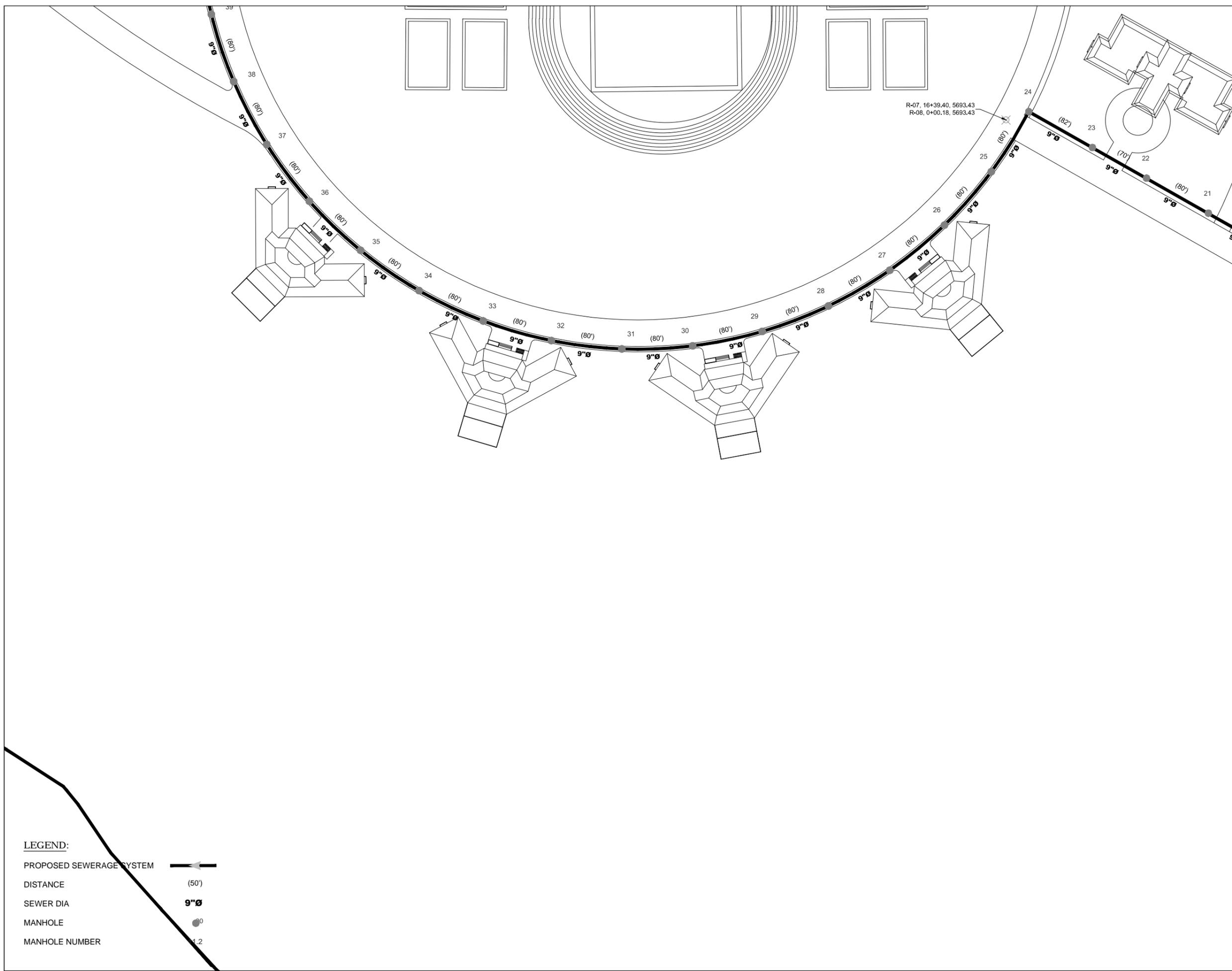
**STUDENT HOSTEL
SBK - PISHIN**

DRAWN BY: M.Imran	DATE: Oct, 2021
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CHECKED BY:
Engr. W.A

DRAWING NO: 0228/007/000/S.W	REV: 0
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SCALE (A3): N.T.S	SHEET: 1/1
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No.	DESCRIPTION	DATE

TENDER DRAWINGS

DRAWING TITLE:
PROPOSED SEWERAGE SYSTEM LAYOUT PLAN

STUDENT HOSTEL SBK - PISHIN

DRAWN BY: M.Imran	DATE: Oct, 2021
CHECKED BY: Engr. W.A	
DRAWING NO: 0228/007/002/S.W	REV: 0
SCALE (A3): N.T.S	SHEET: 1/1

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DRAWING TITLE:

**PROPOSED SEWERAGE SYSTEM
LAYOUT PLAN**

**STUDENT HOSTEL
SBK - PISHIN**

DRAWN BY: M.Imran	DATE: Oct, 2021
CHECKED BY: Engr. W.A	
DRAWING NO: 0228/007/003/S.W	REV: 0
SCALE (A3): N.T.S	SHEET: 1/1



LEGEND:

- PROPOSED SEWERAGE SYSTEM
- DISTANCE (50')
- SEWER DIA **9"Ø**
- MANHOLE
- MANHOLE NUMBER 11.2

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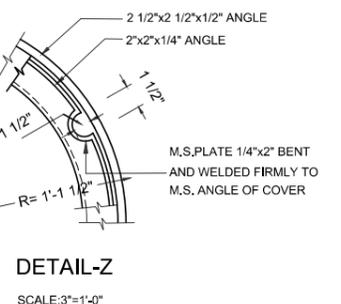
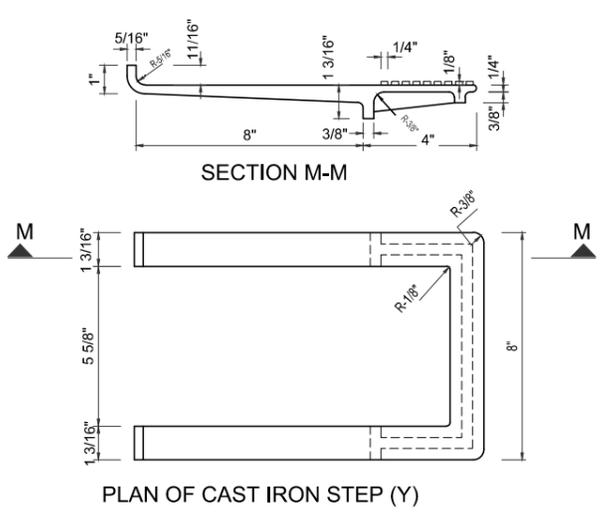
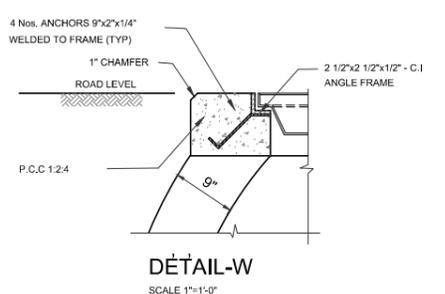
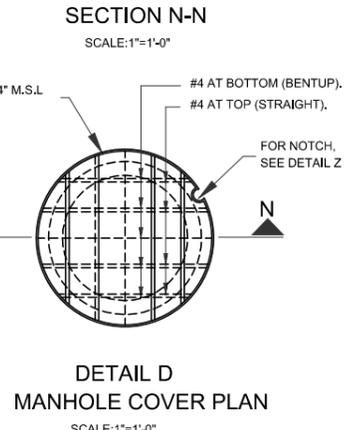
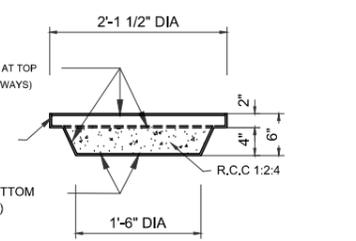
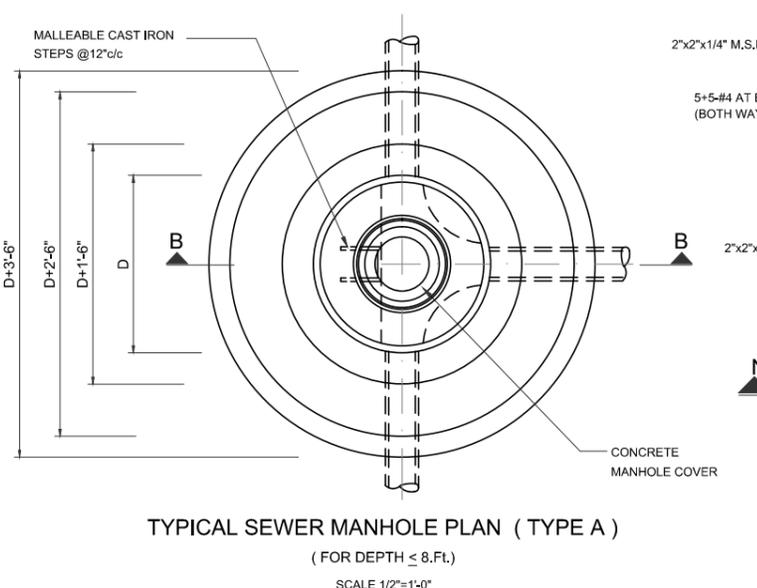
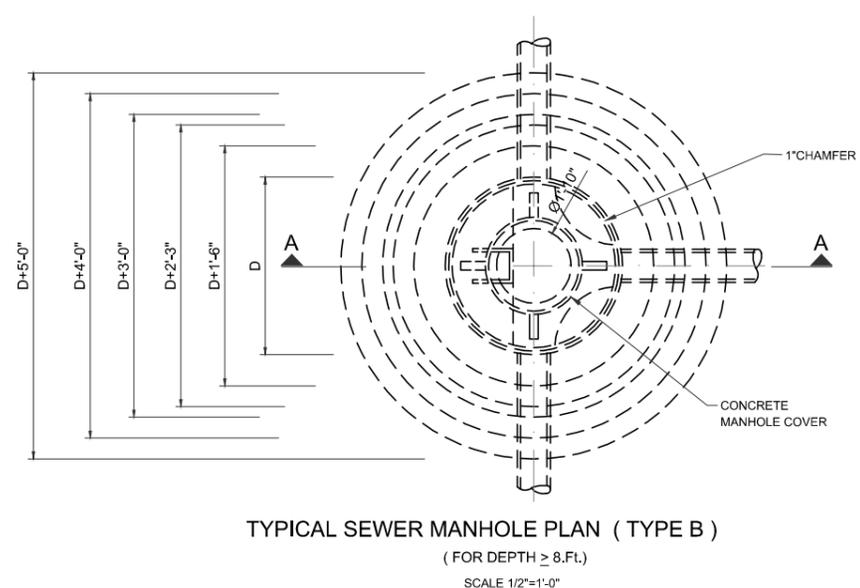
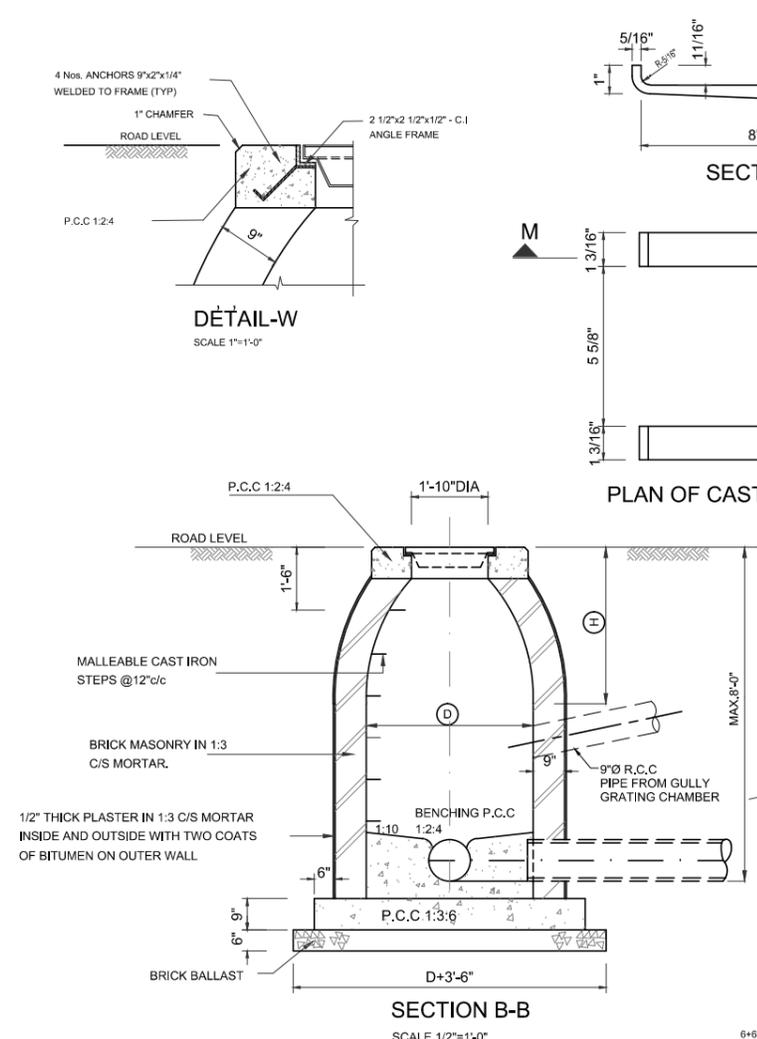
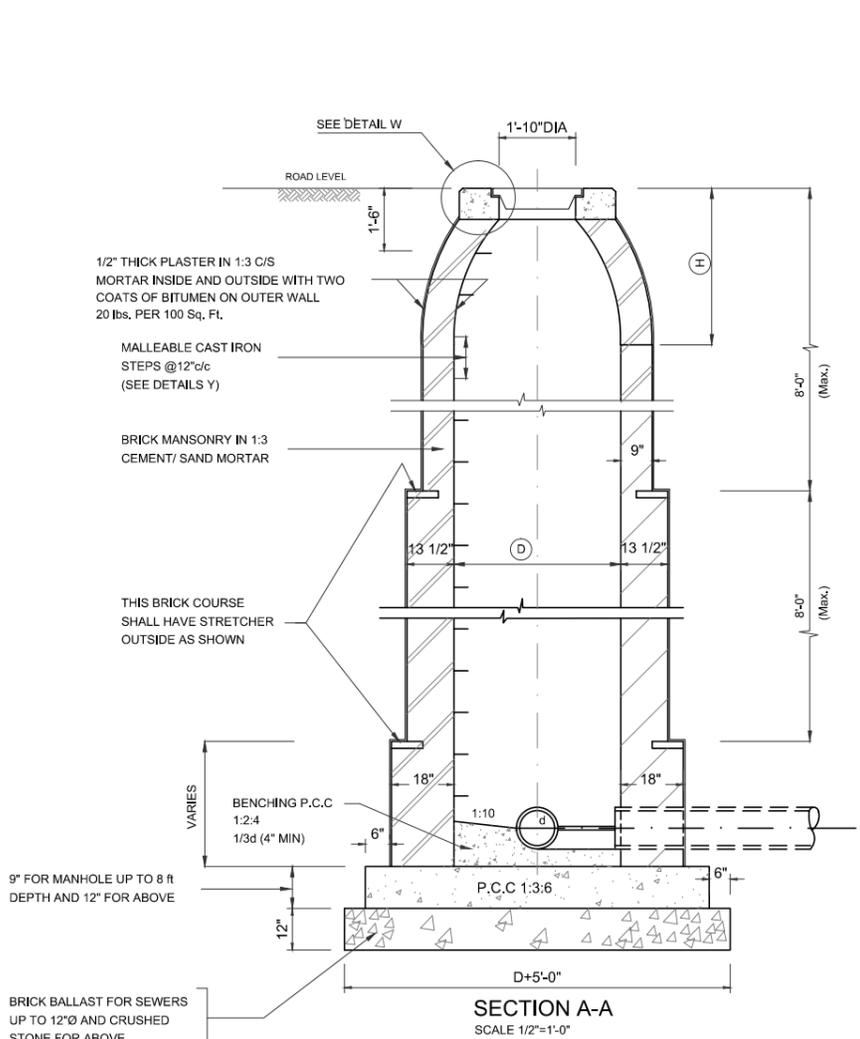
ISSUE FOR TENDER DRAWING

DRAWING TITLE:
MANHOLE & MISCELLANEOUS

DRAWN BY: S.A	DATE: Oct, 2021
CHECKED BY: Engr. Wasif Ali	
DRAWING NO: 0229/001/006 S.W	REV: 0
SCALE (A3): N.T.S	SHEET: 1/1

TABLE -1
SEHEDULE OF MANHOLE

SR. NO.	PIPE DIA. (inch)	D	H
1	9 TO 15	4'-0"	3'-6"
2	18 TO 30	5'-0"	4'-0"
3	36	6'-0"	4'-3"



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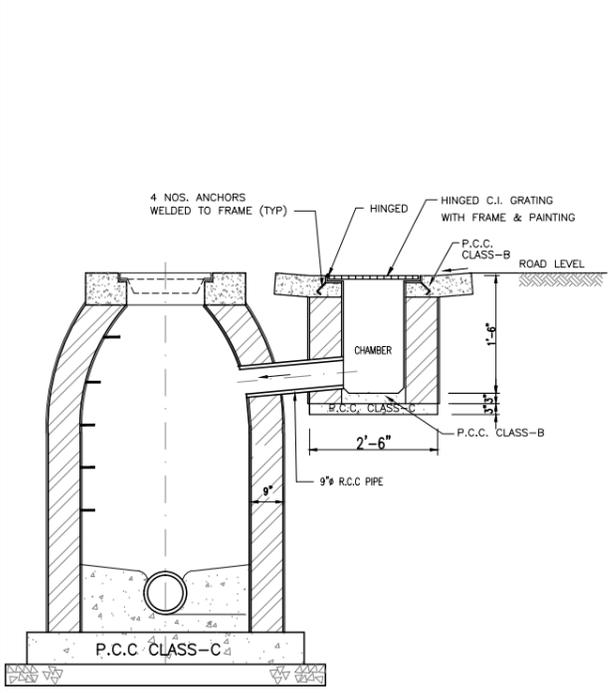
DRAWING TITLE:
HOUSE CONNECTION CHAMBER TYPICAL DETAILS

DRAWN BY: S.A **DATE:** Oct, 2021

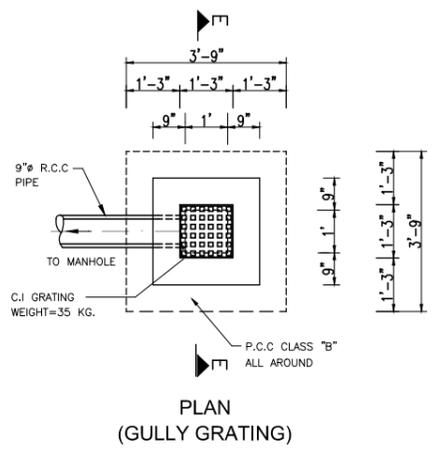
CHECKED BY: Engr.Wasif Ali

DRAWING NO: 0229/001/007 S.W **REV:** 0

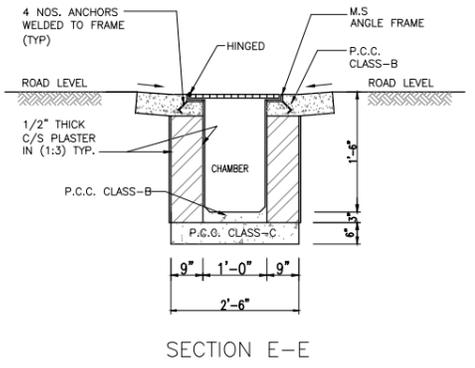
SCALE (A3): N.T.S **SHEET:** 1/1



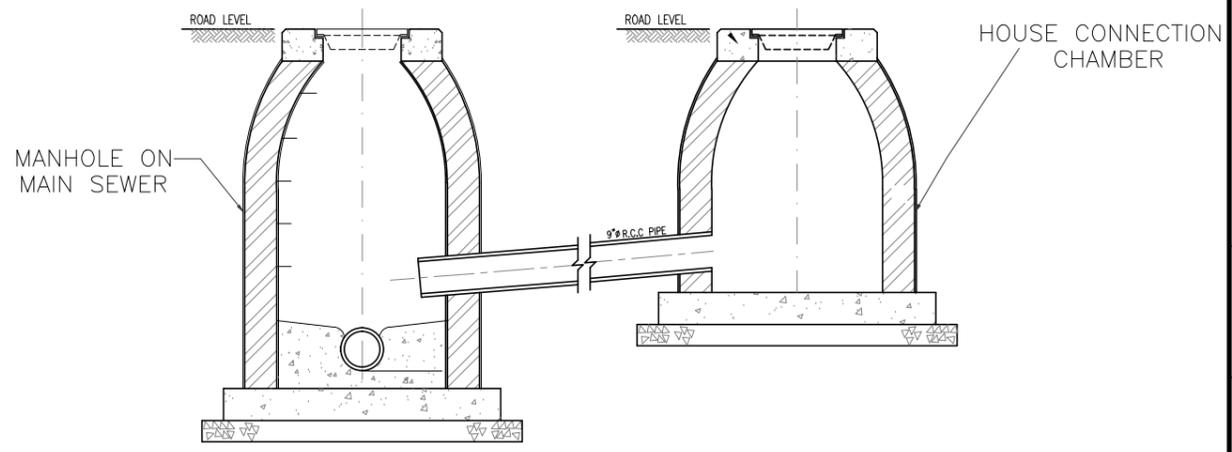
CONNECTION OF PROPOSED COLLECTING CHAMBER WITH EXISTING MANHOLE



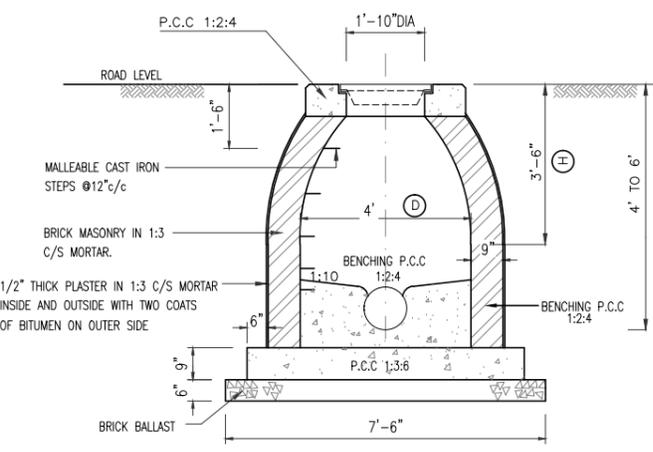
PLAN (GULLY GRATING)



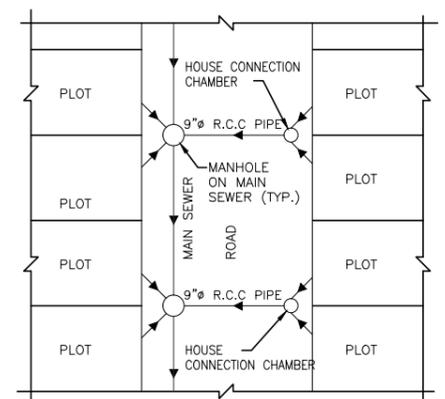
SECTION E-E



CONNECTION OF "HOUSE CONNECTION CHAMBER" WITH THE "MANHOLE ON MAIN SEWER"



SECTIONAL VIEW OF HOUSE CONNECTION CHAMBER



TYPICAL HOUSE CONNECTION DETAIL

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DRAWING TITLE:
TRENCH AND R.C.C. PIPE DETAIL

DRAWN BY: S.A **DATE:** Oct, 2021

CHECKED BY: Engr. Wasif Ali

DRAWING NO: 0229/001/008 S.W **REV:** 0

SCALE (A3): N.T.S **SHEET:** 1/1

TABLE :1

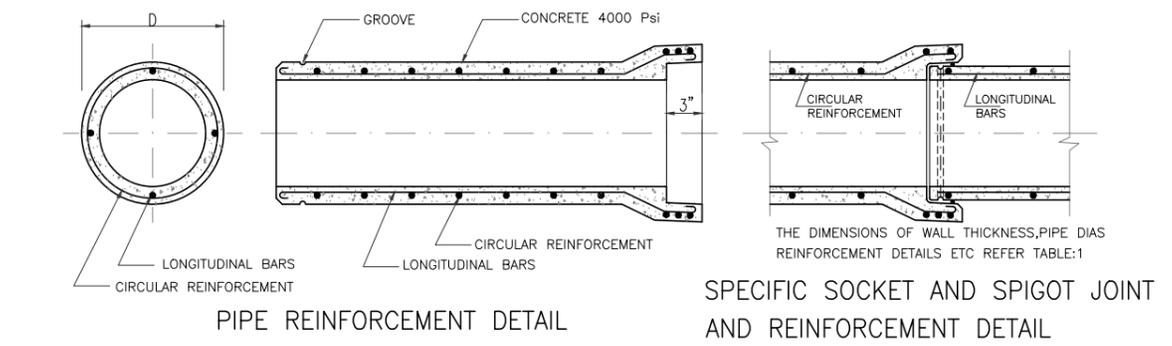
RECOMMENDED R.C.C PIPES OF 8ft. BARREL LENGTH WALL THICKNESS AND REINFORCEMENT DETAILS (CLASS III WALL 'B')

SR. NO.	PIPE INNER DIA.	WALL THICKNESS	SIZE OF RING BARS	NOS.OF CIRCULAR RINGS		NO.OF RINGS FOR BELL	STAIRGHT BARS		
				INNER CAUGE	OUTER CAUGE		DIA.	INNER CAUGE	OUTER CAUGE
1	6" **	1"	3/16"	25	-	2	3/16"	4	-
2	9" **	1"	3/16"	25	-	2	3/16"	4	-
3	12" *	2"	3/16"	25	-	2	3/16"	4	-
4	15" *	2 1/4"	3/16"	25	-	2	3/16"	4	-

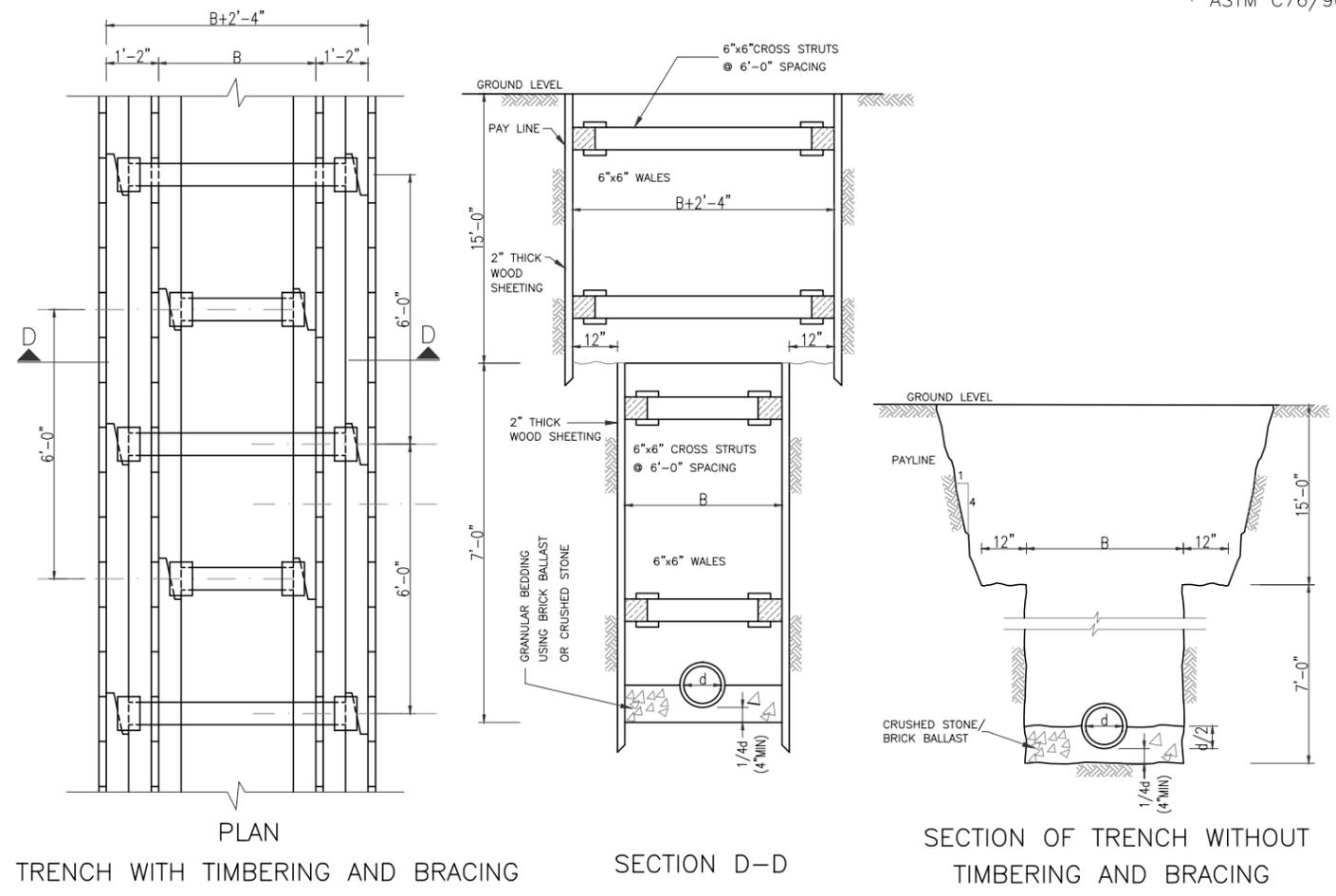
** BSS 5911 PART 1 1981 CLASS 'L'
 * ASTM C76/90 CLASS III WALL 'B' PIPES

SCHEDULE OF TRENCH

SR. NO.	PIPE INSIDE DIA. ("d")	TRENCH (B) WITH TIMBERING	WIDTH (B) WITHOUT TIMBERING
1	9"	27"	36"
2	12"	32"	36"
3	15"	36"	42"
4	18"	39"	46"



NOTE:-
 THE WEIGHT OF THE STEEL CAGE TO BE APPROVED BY THE SITE ENGINEER BASED UPON THE NUMBER OF BAR AS MENTIONED IN THE ABOVE TABLE.



PLAN
TRENCH WITH TIMBERING AND BRACING

SECTION D-D

SECTION OF TRENCH WITHOUT TIMBERING AND BRACING

**WATER SUPPLY SYSTEM PLAN
& SECTIONAL DETAILS DRAWINGS**

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LIST OF DRAWING

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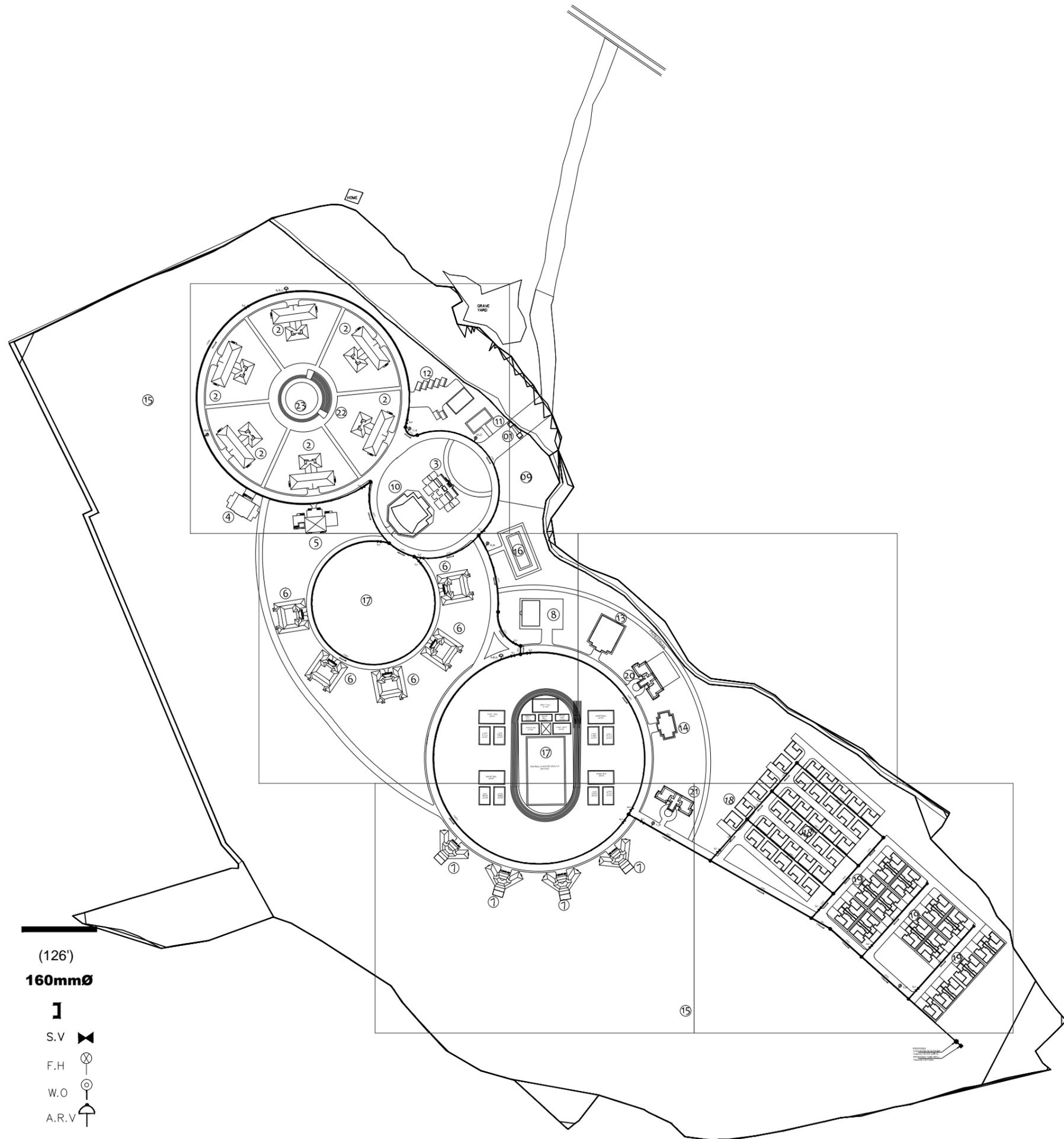
CHECKED BY: Engr. Wasif Ali

DRAWING NO: 0229/001/000 L.D REV: 0

SCALE (A3): N.T.S SHEET: 1/6

LIST OF DRAWINGS

S.NO	DESCRIPTION	DRG.NO:
WATER SUPPLY SYSTEM		
01	LIST OF DRAWING	L.D-01
02	PROPOSED WATER SUPPLY SYSTEM PART PLAN (01 / 5)	WS-01 TO 05
03	WATER SUPPLY MISCELLANEOUS DETAILS	WS-06



LEGEND:

- PROPOSED WATER SUPPLY
- DISTANCE
- PIPE DIA
- DEAD END
- SLUIICE VALVE
- FIRE HYDRANT
- WASHOUT
- AIR RELEASE VALVE



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TENDER DRAWINGS

DRAWING TITLE:
PROPOSED WATER SUPPLY SYSTEM LAYOUT PLAN

STUDENT HOSTEL SBK - PISHIN

DRAWN BY: M.Imran	DATE: Oct, 2021
CHECKED BY: Engr. W.A	
DRAWING NO: 0228/007/000/W.S	REV: 0
SCALE (A3): N.T.S	SHEET: 1/1



LEGEND:

PROPOSED WATER SUPPLY	
DISTANCE	(126')
PIPE DIA	160mmØ
DEAD END	
SLUICE VALVE	S.V.
FIRE HYDRANT	F.H.
WASHOUT	W.O.
AIR RELEASE VALVE	A.R.V.

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TENDER DRAWINGS

DRAWING TITLE:

**PROPOSED WATER SUPPLY
SYSTEM LAYOUT PLAN**

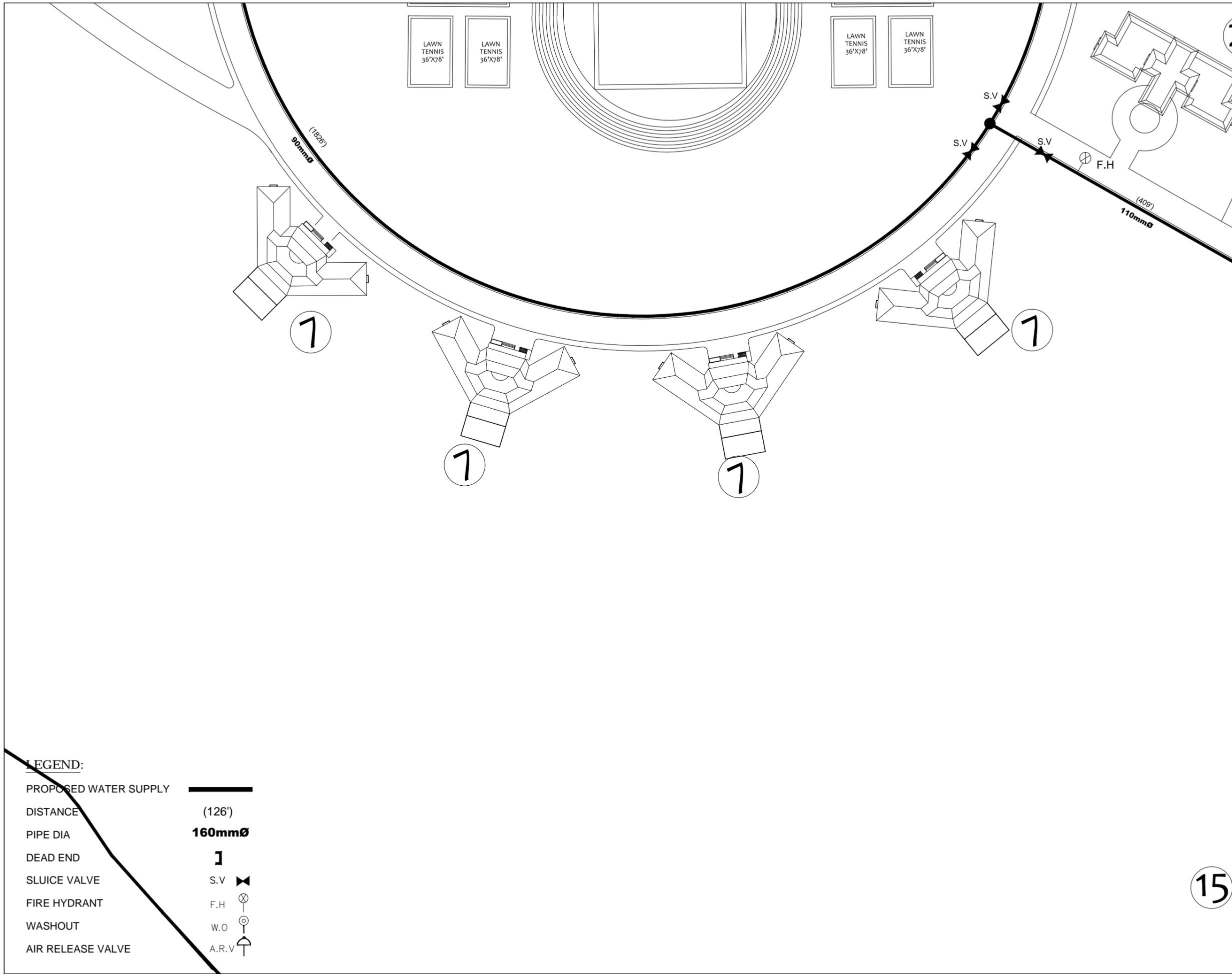
**STUDENT HOSTEL
SBK - PISHIN**

DRAWN BY: M.Imran DATE: Oct, 2021

CHECKED BY: Engr. W.A

DRAWING NO: 0228/007/001/W.S REV: 0

SCALE (A3): N.T.S SHEET: 1/1



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DRAWING TITLE:
PROPOSED WATER SUPPLY SYSTEM LAYOUT PLAN

STUDENT HOSTEL SBK - PISHIN

DRAWN BY: M.Imran	DATE: Oct, 2021
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SCALE (A3): N.T.S	SHEET: 1/1

LEGEND:

PROPOSED WATER SUPPLY	
DISTANCE	(126')
PIPE DIA	160mmØ
DEAD END	
SLUICE VALVE	S.V
FIRE HYDRANT	F.H
WASHOUT	W.O
AIR RELEASE VALVE	A.R.V

15

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REVISIONS:

No.	DESCRIPTION	DATE

TENDER DRAWINGS

DRAWING TITLE:

**PROPOSED WATER SUPPLY
SYSTEM LAYOUT PLAN**

**STUDENT HOSTEL
SBK - PISHIN**

DRAWN BY: M.Imran DATE: Oct, 2021

CHECKED BY: Engr. W.A

DRAWING NO: 0228/007/003/W.S REV: 0

SCALE (A3): N.T.S SHEET: 1/1



LEGEND:

- BASKET BALL 94'x50'
- LAWN 36'x78'
- PROPOSED WATER SUPPLY
- DISTANCE (126')
- PIPE DIA 160mmØ
- DEAD END
- SLUICE VALVE S.V
- FIRE HYDRANT F.H
- WASHOUT W.O
- AIR RELEASE VALVE A.R.V
- BASKET BALL 94'x50'
- AIR RELEASE VALVE

CLIENT:



SBK WOMEN'S UNIVERSITY
BALOCHISTAN



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PROJECT:

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STUDENT HOSTEL SBK - PISHIN

DRAWN BY: M.Imran DATE: Oct, 2021

CHECKED BY: Engr. W.A

DRAWING NO: 0228/007/004/W.S REV: 0

SCALE (A3): N.T.S SHEET: 1/1

LEGEND:

PROPOSED WATER SUPPLY



DISTANCE

(126')

PIPE DIA

160mmØ

DEAD END



SLUICE VALVE



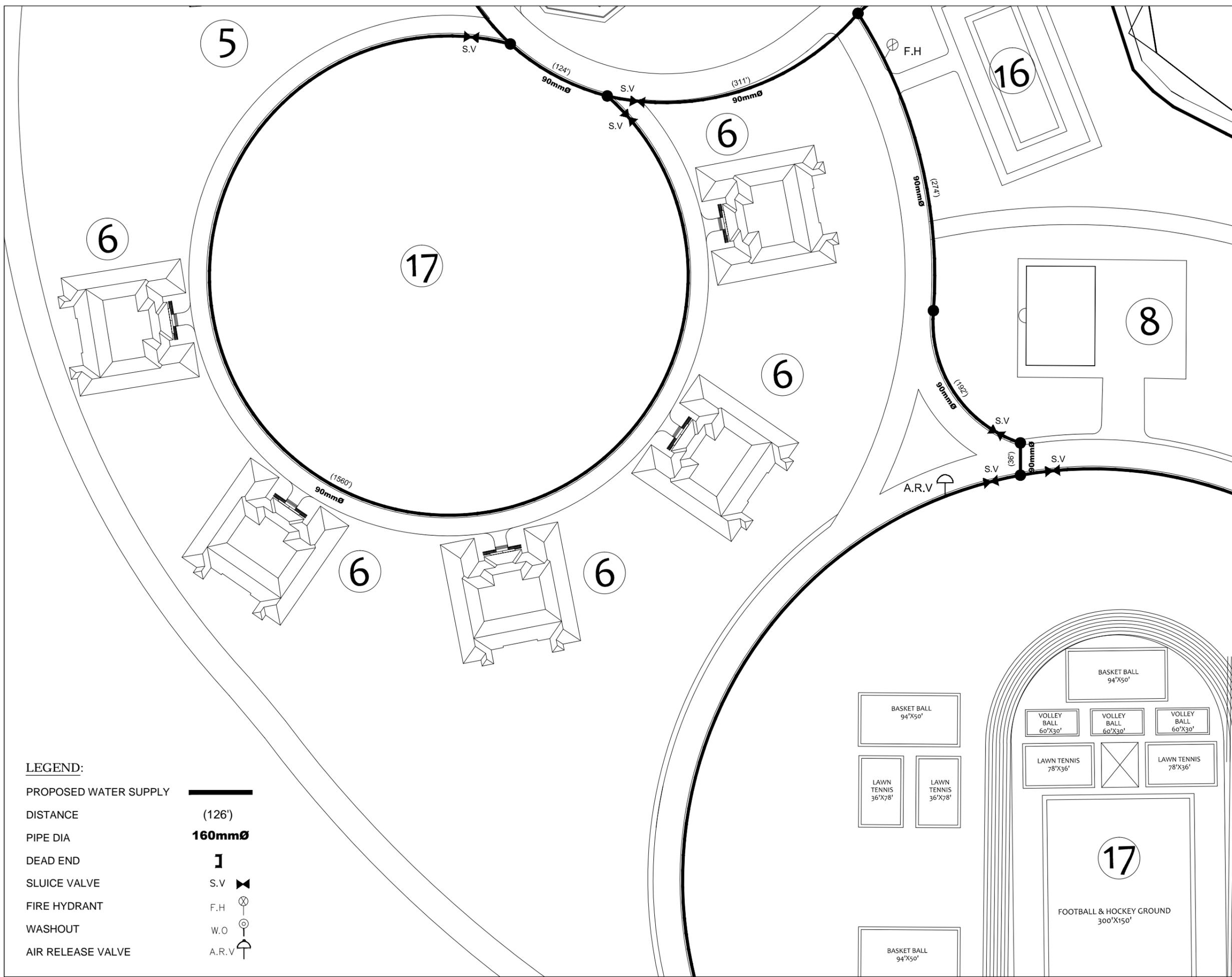
FIRE HYDRANT



WASHOUT



AIR RELEASE VALVE



5

16

6

6

17

8

6

6

6

17

(124')

(311')

(274')

(192')

(1560')

BASKET BALL
94'X50'

VOLLEY BALL
60'X30'

VOLLEY BALL
60'X30'

VOLLEY BALL
60'X30'

LAWN TENNIS
78'X36'

LAWN TENNIS
78'X36'

BASKET BALL
94'X50'

LAWN TENNIS
36'X78'

LAWN TENNIS
36'X78'

BASKET BALL
94'X50'

FOOTBALL & HOCKEY GROUND
300'X150'

A.R.V

F.H

S.V

S.V

S.V

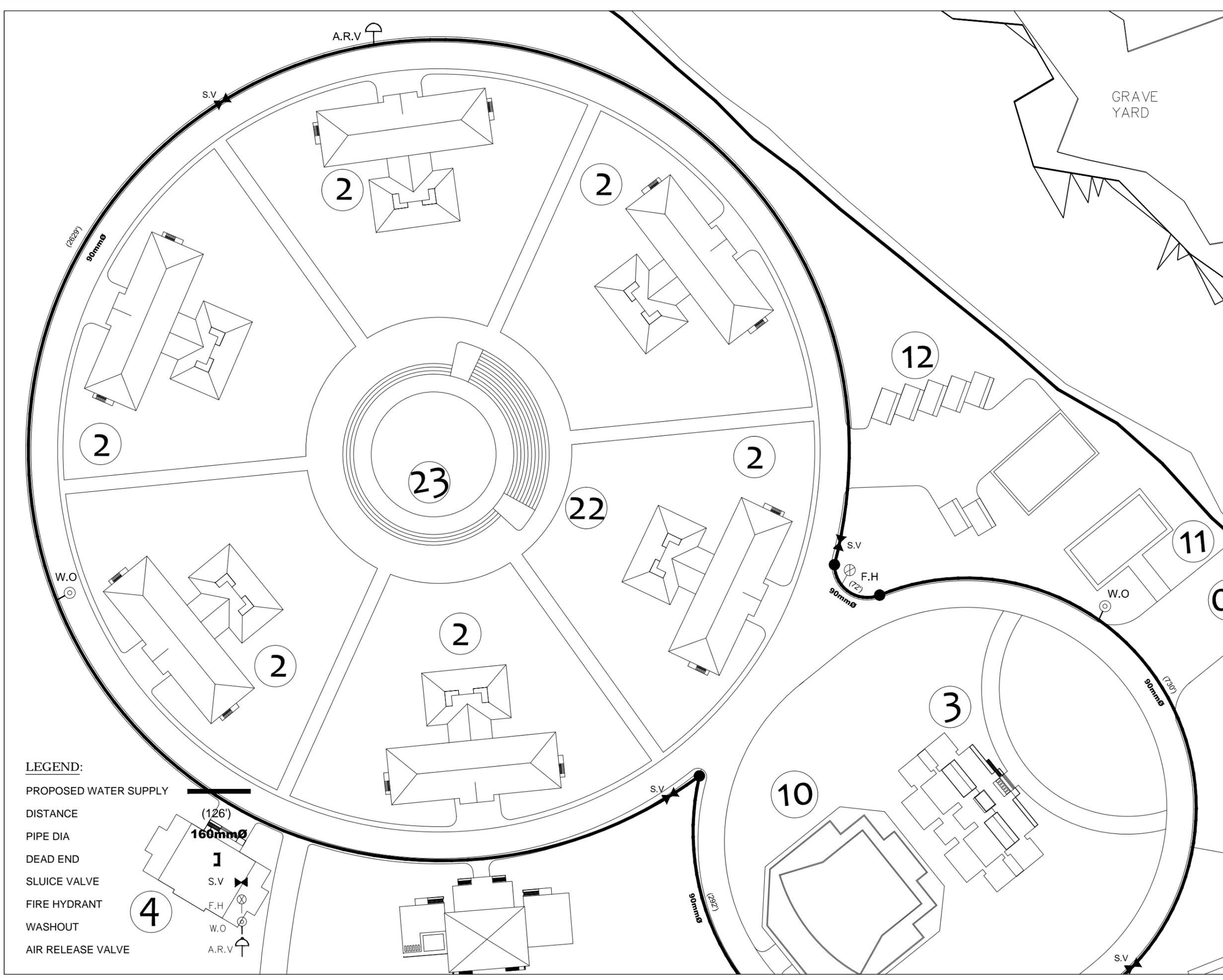
S.V

S.V

S.V

S.V

S.V



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REVISIONS:

No.	DESCRIPTION	DATE
0		

TENDER DRAWINGS

DRAWING TITLE:
PROPOSED WATER SUPPLY SYSTEM LAYOUT PLAN

STUDENT HOSTEL SBK - PISHIN

DRAWN BY: M.Imran	DATE: Oct, 2021
CHECKED BY: Engr. W.A	
DRAWING NO: 0228/007/005/W.S	REV: 0
SCALE (A3): N.T.S	SHEET: 1/1

LEGEND:

- PROPOSED WATER SUPPLY
- DISTANCE
- PIPE DIA
- DEAD END
- SLUICE VALVE
- FIRE HYDRANT
- WASHOUT
- AIR RELEASE VALVE

160mmØ (126')

4

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No.	DESCRIPTION	DATE

ISSUE FOR TENDER DRAWING

DRAWING TITLE:
WATER SUPPLY MISCELLANEOUS DETAILS

DRAWN BY: S.A **DATE:** Oct, 2021

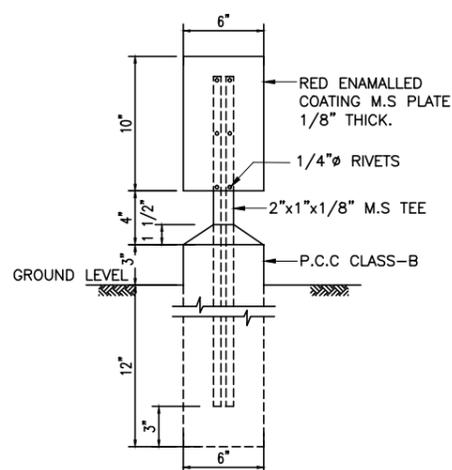
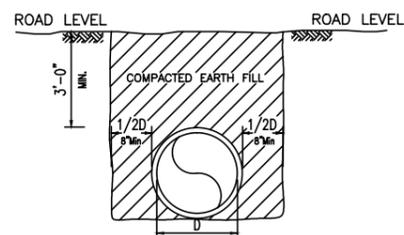
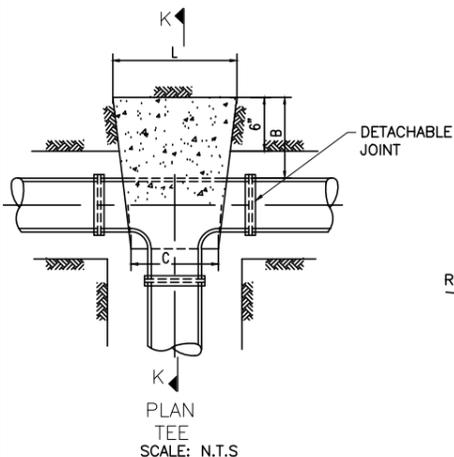
CHECKED BY: Engr.Wasif Ali

DRAWING NO: 0229/001/008 W.S **REV:** 0

SCALE (A3): N.T.S **SHEET:**

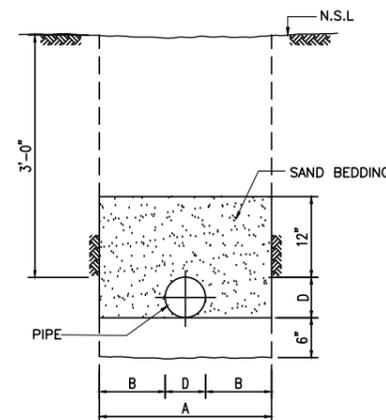
TRENCH WIDTH SCHEDULE

NOMINAL INTERNAL DIA OF PIPE IN INCHES (D)	MIN-TRENCH WIDTH (D+2D+2D)
3"	24"
4"	24"
6"	30"
8"	30"
10"	30"



TRENCH WIDTH SCHEDULE (CROSSING UNDER ROAD)

NOMINAL INTERNAL DIA OF PIPE IN INCHES (D)	B	MIN-TRENCH WIDTH (A)
3"	8"	24"
4"	8"	24"
6"	8"	30"
8"	8"	30"
10"	8"	30"



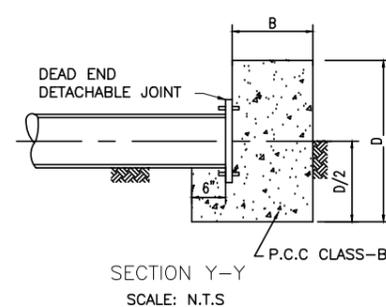
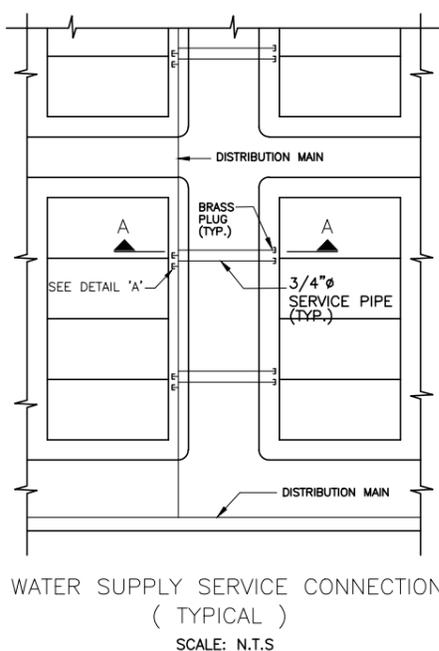
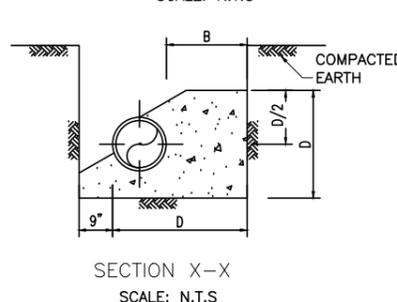
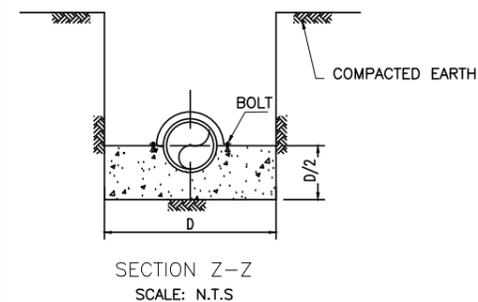
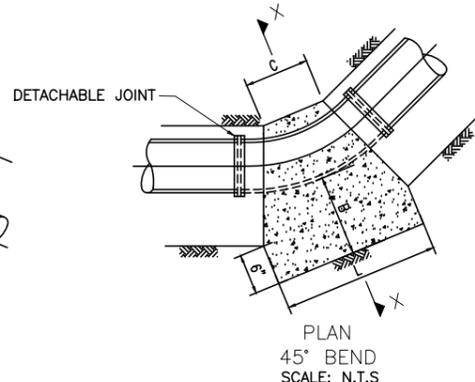
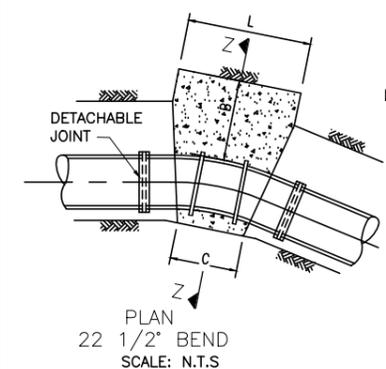
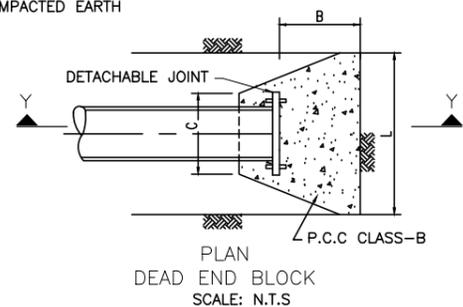
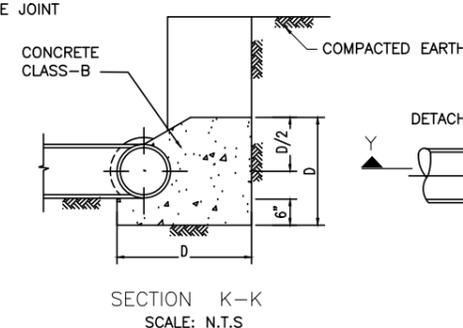
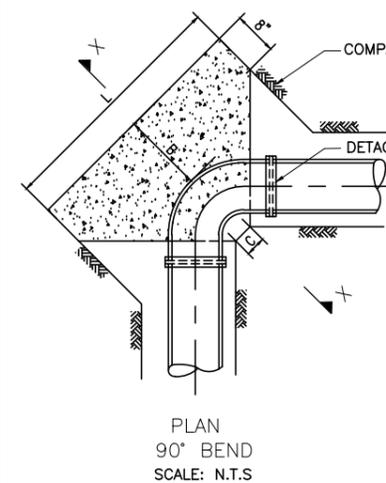
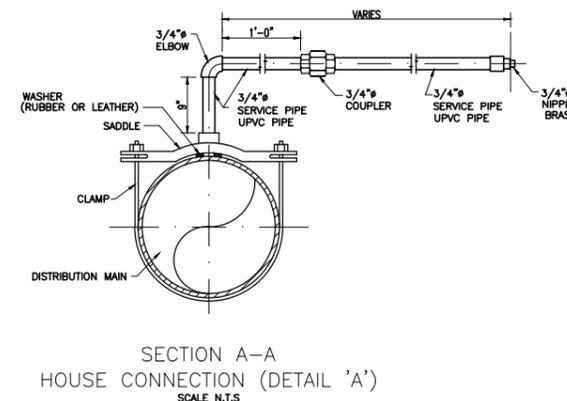
ANCHOR BLOCK DIMENSIONS FOR PIPE FITTINGS

DIA IN INCHES	AT TEES AND DEAD ENDS				AT 90° BENDS				AT 45° BENDS				AT 22 1/2° BENDS			
	C	B	D	L	C	B	D	L	C	B	D	L	C	B	D	L
3	4	12	12	12	2	12	24	12	4	12	12	12	6	12	12	12
4	6	12	12	12	2	12	24	18	4	12	12	12	6	12	12	12
6	8	12	15	24	2	18	24	30	4	12	18	18	6	12	18	12
8	12	12	18	33	6	18	27	36	12	12	21	24	18	12	18	21
10	12	12	24	42	8	27	27	48	14	12	27	30	18	12	24	21
12	21	12	30	48	10	30	33	60	16	15	30	36	21	12	27	24

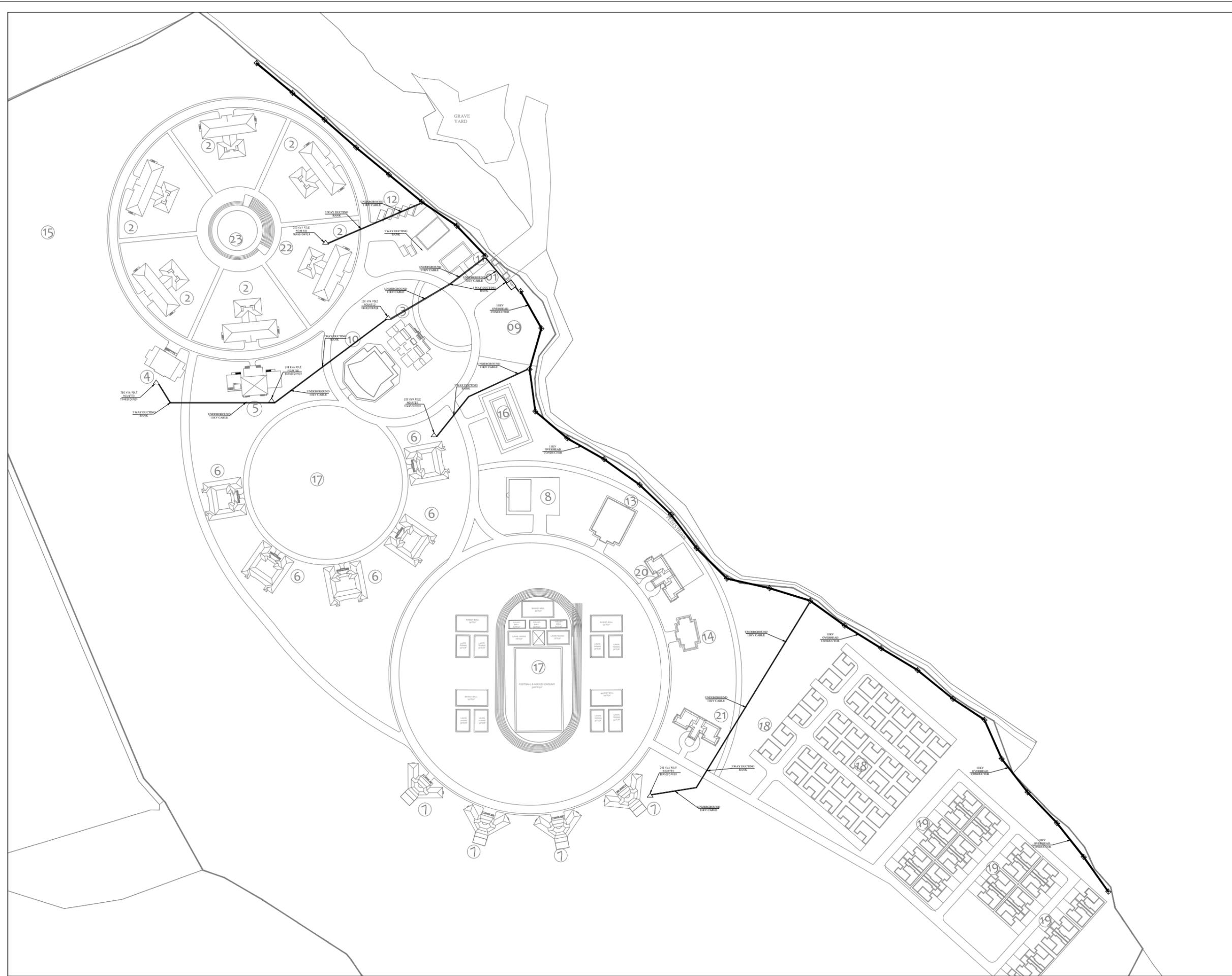
NOTE:- ALL DIMENSIONS ARE IN INCHES.

NOTES:-

- 1: THE HEIGHT OF CHAMBERS TO BE DETERMINED BY THE SITE ENGINEER.
- 2: THRUST BLOCKS SHALL BE OF (CLASS-B) CONCRETE.
- 3: THE WORDS ON INDICATION PLATE SHALL BE WRITTEN IN WHITE BAKED ENAMEL COAT ABBREVIATIONS SUCH AS F.H, G.V, A.V, AND W.O SHALL REPRESENT FIRE HYDRANT, GATE VALVE, AIR VALVE AND WASHOUT RESPECTIVELY.
- 4: READ THIS DRAWING IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- 5: EXACT LOCATION OF AIR VALVES AND WASHOUTS SHALL BE CONFIRMED AT SITE BY THE ENGINEER



**ELECTRICAL DRAWINGS
MASTER PLAN**



CLIENT:
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REVISIONS:

No.	DESCRIPTION	DATE

TENDER DRAWINGS

DRAWING TITLE:
11 KV OVER HEAD ELECTRIFICATION

DRAWN BY: M.Raffeh	DATE: Oct. 2021
CHECKED BY: Eng.Umair Bhatti	
DRAWING NO: 0228/001/002/EE	REV: 0
SCALE (A3): N.T.S	SHEET: 1/05

CLIENT:



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TENDER DRAWINGS

DRAWING TITLE:

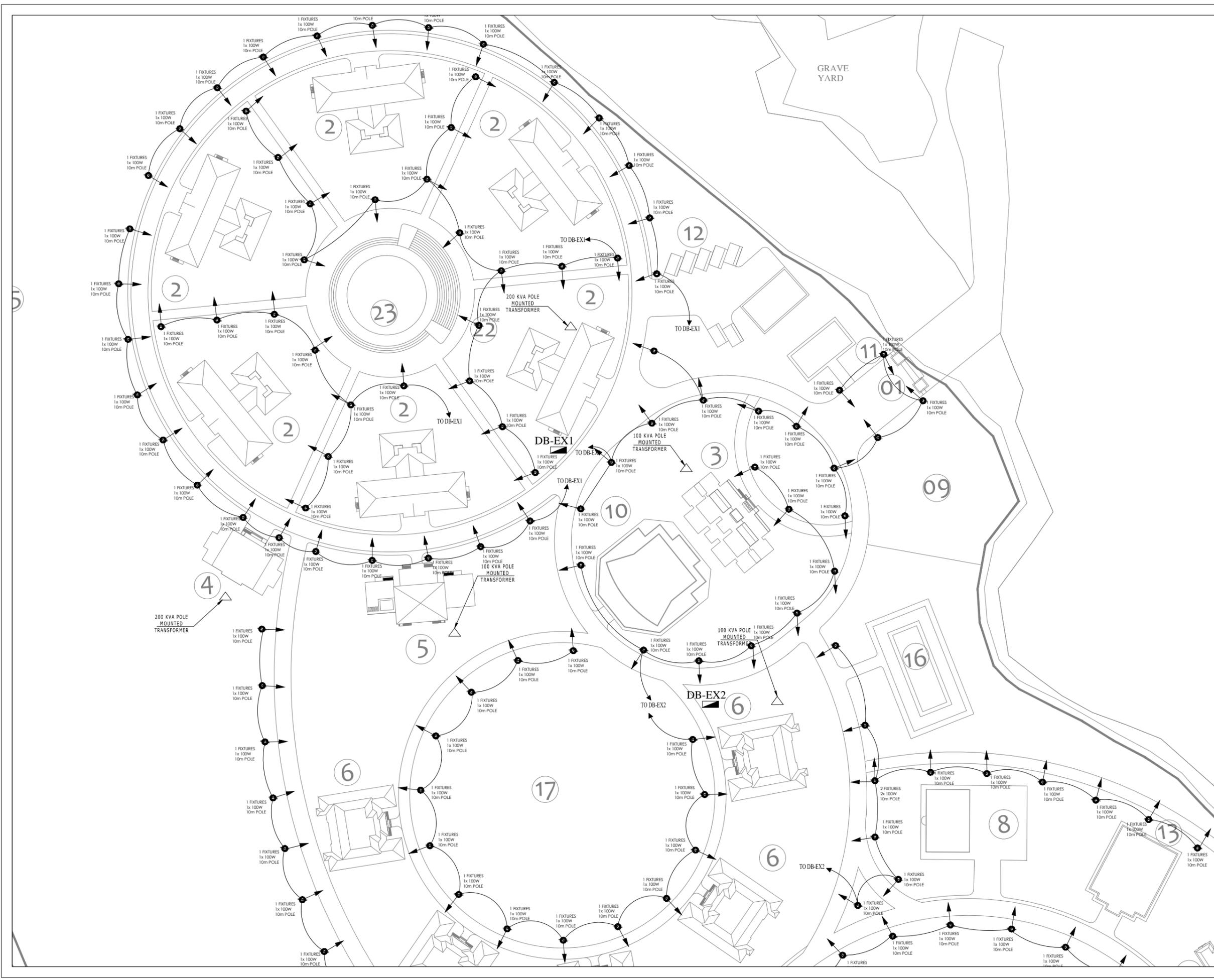
EXTERNAL STREET LIGHT SYSTEM

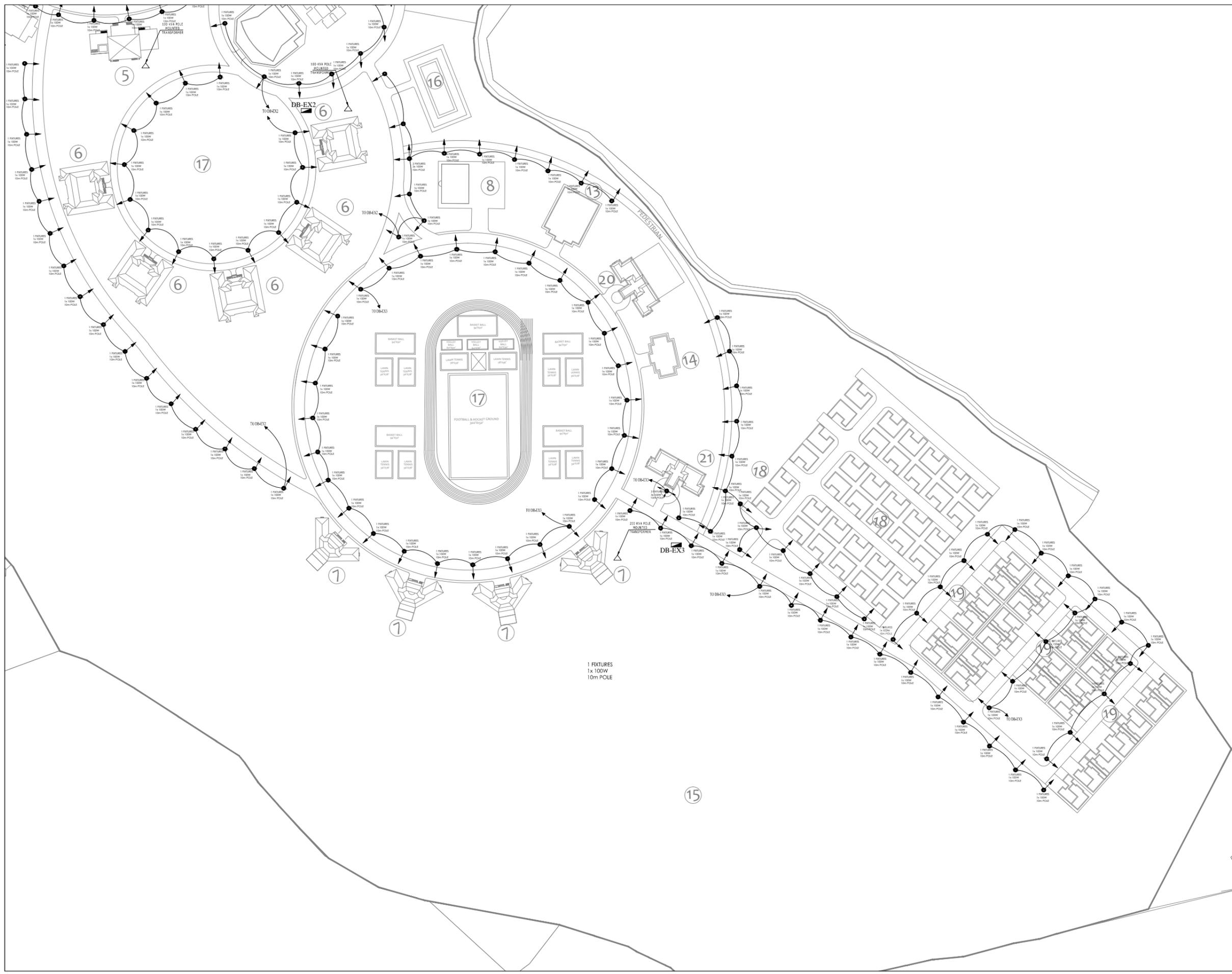
DRAWN BY: M.Raffeh DATE: Oct. 2021

CHECKED BY: Eng.Umair Bhatti

DRAWING NO: 0228/001/003/EE REV: 0

SCALE (A3): N.T.S SHEET: 1/05





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REVISIONS:

No.	DESCRIPTION	DATE

TENDER DRAWINGS

DRAWING TITLE:
EXTERNAL STREET LIGHT SYSTEM

DRAWN BY: M.Raffeh	DATE: Oct. 2021
CHECKED BY: Eng.Umair Bhatti	
DRAWING NO: 0228/001/003a/EE	REV: 0
SCALE (A3): N.T.S	SHEET: 1/05

FINISHED GRADE

DUCT BANK
MARKING TAPE

CONCRETE

PVC PIPE 4"

BASE & INTERMEDIATE

MASONRY LEVELING
BLOCKS AT BASE

0'-3"

0'-3"

3 WAY BANKING DETAIL

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REVISIONS:

No.	DESCRIPTION	DATE

TENDER DRAWINGS

DRAWING TITLE:

**3-WAY BANKING
DETAIL**

DRAWN BY: M.Raffeh DATE: Oct. 2021

CHECKED BY: Eng.Umair Bhatti

DRAWING NO: 0228/001/005/EE REV: 0

SCALE (A3): N.T.S SHEET: 1/05