

**LOCAL GOVERNMENT & COMMUNITY DEVELOPMENT DEPARTMENT**



**Punjab Cities Program**

**PC-I Form**

**For**

**CONSTRUCTION OF 1 NEW PARK IN JHELUM CITY**

**ESTIMATED COST: PKR 156.10 MILLION**

**(Based on MRS 1st Biannual 2023)**

**March 2023**

**MUNICIPAL COMMITTEE, JHELUM**

**Punjab Cities Program**  
**PC-I Form**  
**Construction of 1 New Park in Jhelum City**  
**Table of Contents**

<b>Sr. No.</b>	<b>Description</b>
1	<b>PC-I Form</b>
2	<b>Annexure-A</b> Location Map
3	<b>Annexure-B</b> Project Cost Estimates
5	<b>Annexure-C</b> Project Economic Analysis, Sensitivity Analysis
6	<b>Annexure-D</b> Project Implementation Period (Gant Chart)
7	<b>Annexure-E</b> Environment Impact Assessment
8	<b>Annexure-F</b> Drawings

**PC-I FORM**  
**FOR**  
**CONSTRUCTION OF 1 NEW PARK IN JHELM CITY, DISTRICT JHELM**

***Project Serial Number:***

**Sector:** Social Sector  
**Sub Sector:** Parks

<b>1. Name of the project</b>	<b>Punjab Cities Program</b> <b>Construction of 1 New Park in Jhelum City</b>										
<b>2. Location</b>	<p>Jhelum town is located at 32.9425° N, 73.7257° E. Jhelum is a city on the east bank of the Jhelum River, which is located in the district of Jhelum in the north of Punjab province, Pakistan. It is the 44th largest city of Pakistan by population. Jhelum is located a 1-hour and 30 minutes' drive from the Capital of Pakistan Islamabad, and 3 hours' drive from the heart of Punjab Lahore. Jhelum is linked with these cities through the National Highway N-5. Several cities are within 1 to 2 hours' drive including Gujrat, Gujranwala, Chakwal and Mirpur, Azad Kashmir.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Name of Park</th><th colspan="2">Location</th></tr> </thead> <tbody> <tr> <td>1</td><td>Kala Gujran</td><td>73.69652"E</td><td>32.97646"N</td></tr> </tbody> </table> <p>The location map of 2 parks is attached at <b>Annexure-A</b>.</p>			Sr. No.	Name of Park	Location		1	Kala Gujran	73.69652"E	32.97646"N
Sr. No.	Name of Park	Location									
1	Kala Gujran	73.69652"E	32.97646"N								
<b>3. Authorities responsible for</b>											
i- Sponsoring	Government of the Punjab (through World Bank Funding under PCP)										
ii- Execution	Municipal Committee, Jhelum										
iii- Operation and Maintenance	Municipal Committee, Jhelum										
iv-Concerned Provincial Department	Local Government and Community Development Department, Govt. of the Punjab										

<b>4a. Plan Provision</b>											
i. If the project is included in medium term/five-year plan, specify actual allocation	<p>Punjab Cities Program (PCP) is a World Bank Funded Program with a total cost of 236.00 million USD and comprises of below mentioned components;</p> <table border="1"> <tr> <td>Total loan from World Bank</td><td>200.00 million USD</td></tr> <tr> <td>Component-1 Infrastructure development (P4R)</td><td>180.00 million USD</td></tr> <tr> <td>Component-2 Technical Assistance</td><td>20.00 million USD</td></tr> <tr> <td>MCs share (20% of P4R component) equivalent to:</td><td>36.00 million USD</td></tr> <tr> <td><b>Total Program cost</b></td><td><b>236.00 million USD</b></td></tr> </table> <p>This program is included in the medium term / five-year plan and has been funded now in ADP 2022-23 - under General Serial No-1769 with financial allocation of PKR ----- million under PCP for Jhelum city.</p>	Total loan from World Bank	200.00 million USD	Component-1 Infrastructure development (P4R)	180.00 million USD	Component-2 Technical Assistance	20.00 million USD	MCs share (20% of P4R component) equivalent to:	36.00 million USD	<b>Total Program cost</b>	<b>236.00 million USD</b>
Total loan from World Bank	200.00 million USD										
Component-1 Infrastructure development (P4R)	180.00 million USD										
Component-2 Technical Assistance	20.00 million USD										
MCs share (20% of P4R component) equivalent to:	36.00 million USD										
<b>Total Program cost</b>	<b>236.00 million USD</b>										
ii- If not included in the current plan, what warrants its inclusion and how it is now proposed to be accommodated	Not applicable										
iii If the project is proposed to be financed out of block provision indicate.	The Project is being financed by World Bank as donor along with 20% co-financing from the Program MCs and is not proposed to be financed out of Block Allocation.										
<b>4b- Provision in the current year PSDP/ADP</b>	Rs.398.29 million under ADP 2022-23.										



5. Project objectives and its relationship with sector objectives	<b>Sector Objectives</b> The sector objectives include:  <div><div>1. Community development through improving basic infrastructure.</div><div>2. Clean and green environment for better living standards.</div><div>3. Effective use of land through master planning of urban areas.</div><div>4. Social uplifting and cohesion through rehabilitation of public open spaces and playgrounds.</div><div>5. Capacity building of Local Governments MCs in municipal service delivery.</div></div>
	<b>Objectives of the Project</b> The Project aims at rehabilitation of existing park and construction of new park with the construction/rehabilitation of facilities like Jogging tracks, Sitting spaces, Toilets, Cafeterias, etc. The Project has the following objectives;  <div><div>1. The project's main objective is to rehabilitate the existing parks with the upgradation to the existing &amp; new facilities to provide the local community a recreational space with all the allied facilities.</div><div>2. The project also aims to construct a new park equipped with all the facilities that should be provided in a thriving neighborhood.</div><div>3. To create safe neighborhoods for the peoples.</div><div>4. To create valuable green spaces.</div><div>5. To enhances the aesthetic beauty of the city.</div><div>6. To contribute the health and wellness of the community.</div><div>7. Ornamental plants, green areas &amp; rain water harvesting structures.</div></div> Hence the objectives of the project are in line with the sector objective & project forms integral part of the concerned sector.
	6. Description, justification, technical parameters, and technology transfer aspects

i. Present Condition	The city has space for 1 new park and 1 existing park in the city and the conditions of the facilities in the parks are not up to the mark. Some of the main key features of the park like Lighting, toilets for females, cafeterias doesn't even exist. The names of these park are mentioned below.		
	Sr. No.	Name	Area
	1	Kala Gujran Park	5 Acre

ii. Description of the sub-project	The project comprises rehabilitation of 1 existing parks with the addition/replacement of damaged item/facilities and construction of 1 new park. (Total Area 14 Acre).		
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iii. Detail of civil works, equipment & machinery, and other physical facilities	The detail of items / works to be construct in the new parks, is given below;				
	Sr No	Project	Scope	Detail Scope of Work	Area of Park
	1	Kala Gujran Park	Construction of Park	Construction of Walkway	5 Acres
				Construction of Boundary wall	
				Construction of Main Gate	
				Construction of Toilet Block	
				Construction of Cafeteria	
				Construction of Gazebos	
				Installation of New Benches	
				Installation of New Swings	
				Construction of Rain Water Storage Tank	
				Construction of Indoor Sports Area	
				Construction of Net Cricket	
				Construction of Rain Water Shelter	
				Construction of Jogging Track	
iv Indicate governess issues of the sector relevant to the project and strategy to resolve them				<ul style="list-style-type: none"><li>• The smooth sailing of the Punjab Cities Program can only be assured when the required staff for maintenance is available with MC Jhelum.</li><li>• The repair and maintenance of the parks seem to be not up to the mark in the city because of lack of the manpower. The manpower needs to be increased and for that purpose, more staff needs to be hired for the maintenance.</li></ul>	

7- Capital Cost of Project	The summary of the works included in the project is given below;		
	Sr. No.	Description	Cost (PKR)
	A	CIVIL WORKS	123,060,024
	B	ELECTRICAL WORKS	8,787,770
	C	WATER SUPPLY AND SEWERAGE WORKS	6,852,675
		Sub-Total (A+B+C)	138,700,469
		Contingencies @2%	2,774,009
		PST @%	6,935,023
		Environmental and Social Mitigation cost	753,000.00
		Escalation @ 5%	6,935,023.46
		Total Cost	156,097,526
		Total Cost (Million)	156.10
	See Annexure-B for details.		
i- Indicate date of estimation of the project cost	The project estimates have been framed during the month of March 2023.		
ii- Basis of determining the estimates be provided.	The cost estimates have been framed on the basis of bill of quantities actually measured at site and unit rates from the Market Rate System (MRS) issued by the Government of Punjab (Jhelum 1 <sup>st</sup> biannual 01-01-2023 to 30-06-2023).  For items not available in the MRS, the same have been analyzed as per prevailing market rates on the basis of quotations attached.		
iii- Provide year wise estimation of physical activities	The physical and financial requirements, year-wise are included in the following table:		
	Sr. No.	Description	Year 2023-24
	1	CIVIL WORKS	100 %
	2	ELECTRICAL WORKS	100 %
	3	WATER SUPPLY AND SEWERAGE WORKS	100 %
	4	TAXES	100 %

iv- Phasing of capital cost on the basis of each item of work.	The phasing of capital cost of the project is included in the following table:		
	Sr. No.	Description / Items	Year 2023-24
	1	CIVIL WORKS	123,060,024
	2	ELECTRICAL WORKS	8,787,770
	3	WATER SUPPLY AND SEWERAGE WORKS	6,852,675
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		Total Cost	156,097,526
		Total Cost (Million)	156.10
8-Annual recurrent cost after completion of the project and source of financing	The annual O&M cost of the Parks maintenance and replacement / rehabilitation is <b>4.800 million</b> and has been attached in <b>Annexure B</b> .		
9- Demand & Supply Analysis	Existing supply level		
i- Existing Capacity of services	Presently, there are 3 existing parks at different locations and all of them have lacked in basic infrastructure of parks like toilets, cafeterias, jogging tracks and walkways etc.  Therefore, rehabilitation of existing parks is inevitable to provide healthy environment to the community in Jhelum city.		
ii- Projected Demand for 10 years	The current population of Jhelum city is 199,211 and the estimated population of Jhelum city in 2032 will be 248,855. Jhelum city currently have 2 existing parks and they can be categorized as City, Community and Mohalla parks. As per the National Reference Manual categorization for the parks, the city is already have less number of parks as compared to the demand. So the rehabilitation and the construction of new parks is required in the next 10 years to meet the demand of the city.		
iii- Capacity of other similar projects being implemented in	No other project of this nature is being implemented in the public as well as private sector because of funding constraints in the MC.		

public/private sector													
iv- Supply and Demand gaps	Presently, there are 3 existing parks at different locations and both of them have lacked in basic infrastructure of parks like Park Lights, cafeterias, walkways etc.												
v-Designed capacity and output of the project	The existing parks needs to be rehabilitated and upgraded with the new infrastructure and replacement of damaged-nonfunctional items. The new park needs to be constructed as there is no park in the Kala Gujran area Total areas of the parks to be established is 14 Acres.												
10. Financial Plan Sources of financing <u>Debt</u> a) Indicate the local and foreign debt Loan	<p>Below given loan for the Punjab Cities Program has been funded by World Bank for 16 PCP cities in Punjab.</p> <table border="1"> <tr> <td>Total loan to Government of Pakistan/Punjab</td><td>200 million USD</td></tr> <tr> <td>Component-1 for Infrastructure Development</td><td>180 million USD</td></tr> <tr> <td>Component-2 for Investment Project Financing For capacity building of MCs &amp; three Govt. organization and program management.</td><td>20 million USD</td></tr> <tr> <td>20% share of Municipalities is equivalent to</td><td>36 million USD</td></tr> <tr> <td>Total funds available for Infrastructure Development</td><td>216 million USD</td></tr> <tr> <td colspan="2">This project will be funded under this financing.</td></tr> </table>	Total loan to Government of Pakistan/Punjab	200 million USD	Component-1 for Infrastructure Development	180 million USD	Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.	20 million USD	20% share of Municipalities is equivalent to	36 million USD	Total funds available for Infrastructure Development	216 million USD	This project will be funded under this financing.	
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b) Equity	<p><b>A. Loan / Grant to MC</b> The amount of loan converted to grant to MC Jhelum will be <b>PKR 156.10 million</b>. The financing of the project will be as given below:</p> <table border="1"> <tr> <td>Grant to Unit for the year 2023-24 (80% of Cost of PC-I)</td><td>PKR 124.28 million</td></tr> <tr> <td>20% Co-finance by MC (20% of the Cost of PC-I)</td><td>PKR 31.22 million</td></tr> <tr> <td><b>Total available funds (Total Cost of PC-I)</b></td><td><b>PKR 156.10 million</b></td></tr> </table> <p><b>Project Cost: PKR 156.10 million</b></p>	Grant to Unit for the year 2023-24 (80% of Cost of PC-I)	PKR 124.28 million	20% Co-finance by MC (20% of the Cost of PC-I)	PKR 31.22 million	<b>Total available funds (Total Cost of PC-I)</b>	<b>PKR 156.10 million</b>						
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<b>Total available funds (Total Cost of PC-I)</b>	<b>PKR 156.10 million</b>												

	*The loan is from World Bank to Government of Pakistan/Punjab, which will trickle down to MC Jhelum as grant.
c) Grants	No grant is being given by Government of Punjab out of ADP funds. The World Bank loan to Government of Pakistan / Punjab will trickle down as grant to MC Jhelum.
d) Weighted cost of capital	Nil

<b>11-Project benefits and analysis</b>							
i.Financial (including cost-benefit ratio):  Income to the project with assumption	<b>Annexure-C.</b>						
ii.Social benefits to the target group							
iii.Environmental Impact negative / positive	<b>Annexure-E.</b>						
iv.Quantifiable project outputs	The quantifiable project out puts have been given above in Sr. No-9 (V). The social benefits to the citizen have been described at Sr. No-11 (ii). The Economic Analysis, of the project have been attached at <b>Annexure-C</b>						
v.Unit cost analysis	<p>The unit cost analysis is produced below;</p> <table border="1"> <tr> <td>Project Capital Cost</td><td>PKR 156.10 Million</td></tr> <tr> <td>Population of the city in year 2022</td><td>199,211persons</td></tr> <tr> <td>Unit capital cost per capita</td><td>PKR 783.00 PKR.</td></tr> </table>	Project Capital Cost	PKR 156.10 Million	Population of the city in year 2022	199,211persons	Unit capital cost per capita	PKR 783.00 PKR.
Project Capital Cost	PKR 156.10 Million						
Population of the city in year 2022	199,211persons						
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vi. Employment generation (Direct and indirect)	<p><b><u>Employment Analysis</u></b></p> <p><b>Direct Employment</b></p> <p><b>a) <i>Planning and Design of Projects</i></b></p> <p>The planning and design of the project has been entrusted to local consultant who have appointed staff and experts in related disciplines along with their support staff. The consultant will also appoint their staff for resident supervision of the project under this PC-I.</p> <p><b>b) <i>Execution of the Project</i></b></p> <p><b>a) <i>PMDFC</i></b></p> <p>PMDFC has the project monitoring and supervisory role and the company has enough experts and staff to complete this assignment. PMDFC has already deployed under mentioned staff for these projects:</p> <ul style="list-style-type: none"> <li>• Civil Engineers / architects</li> <li>• Accounts, administration and audit personnel</li> <li>• Urban planners</li> <li>• GIS experts</li> <li>• Support staff like computer operators, vehicle drivers, office boys and guards.</li> <li>• Procurement experts</li> <li>• Communication experts</li> <li>• Environmental and social experts</li> <li>• Contract management experts</li> </ul> <p><b>b) <i>Consultants</i></b></p> <p>PMDFC has employed (M/s MM PAKISTAN) as consultants for detailed design and resident supervision of the projects who will deploy their staff for execution of the project.</p> <p><b>c) <i>Municipality</i></b></p> <p>Jhelum MC has regular staff like engineers, sub engineers and other administrative &amp; accounts keeping staff which will be responsible for execution of the project and contract management. No additional staff will be needed for execution of this project</p> <p><b>d) <i>Contractor</i></b></p> <p>The contractor responsible for execution of the sub project will employ technical staff, technicians and skilled / unskilled labor on this work.</p> <p><b>Indirect Employment</b></p> <p>Indirect employment for production of material such as cement, steel, bricks, steel windows / doors, benches, gates will be generated.</p>
vii. Impacts of delays on	<p>Delays in the project will cause the total cost of the project to go up. The sensitivity analysis table shows (Attached as <b>Annexure-C</b>) the net</p>

project cost and viability	present value of the project if the delay causes the total cost of the project to rise by 10 percent.
<b>12-Implementation Schedule</b>	
a) Indicate starting and completion date of the project	The project is anticipated to commence by April 2023 and to be completed by July 2023 with project implementation period of <b>06 months</b> .
b) Item wise/year wise schedule in line chart	The Gant chart has been attached as <b>Annexure-D</b> .
<b>13- Management Structure and manpower requirements</b>	
i. Administrative arrangements for the implementation of the project	<p><b>Execution of the project</b></p> <ul style="list-style-type: none"> <li>The project will be executed by MC Jhelum and will be supervised by the Consultants appointed by PMDFC in resident supervision mode. The technical staff &amp; experts in PMDFC will oversee, coordinate and collaborate in the project planning, design and implementation through their experts in head office located in Lahore and regional offices. The reporting of progress to LG &amp; CDD &amp; World bank and troubleshooting will also be responsibility of PMDFC.</li> <li>MO (I&amp;S) of the MC has been designated as Project Manager /Engineer in Charge of the project. The supervision of the works will also be carried out by these municipal officers along with their support engineering staff. All supervisory staff is available with MC.</li> <li>The Procurement Committee of MC Jhelum will do the procurement of works and goods as per PPRA Rules.</li> </ul>
ii- The manpower requirements by skills during execution and operation of the project and;  The job description, qualification, experience, age and salary of each post	<p><b>a) PMDFC experts and staff</b></p> <p>For rendering assistance in implementation of infrastructure projects in 16 MCs, PMDFC has the experts and staff in the required fields. In order to facilitate the Program Units, three regional offices have been established by PMDFC at Gujranwala, Faisalabad and Multan.</p> <p><b>b) Resident Supervision Consultants</b></p> <p>The project will be supervised by the consultants. The tentative staff to be employed / deployed by the consultants for the certification of quantities of works and resident supervision of the project is given below;</p>



	Sr. No.	Personnel	No.	Qualification
	1	Chief Resident Engineer/Team Leader	01	BSc;/BE in Civil engineering with minimum 20 years' professional experience or MSC; Civil Engineering / Public Health Engineering / Environmental Engineering with Bachelor in Civil Engineering and minimum 15 years, experience, with 5 years on similar assignments in both cases
	2	Senior Engineer	01	BSc/BE Civil engineering with minimum 08 years' relevant design experience or MSc engineering, with 5 years on similar assignments in both cases
	3	Resident Engineer	01	BSc/BE Civil engineering with minimum 10 years' experience in site supervision and execution for projects of similar nature.
	4	Environmental Specialist and Social/Resettlement Specialist	01	BSc Environmental Science / Social Science with minimum 10 years of experience
	5	Assistant Resident Engineer	01	Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature
	6	Site Inspectors	01	DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature
	7	Quantity Surveyor	01	DAE in Civil Technology with minimum 10 years' experience in estimation & costing of projects of similar nature. The person having public sector projects will be preferred.
	8	AutoCAD Operator	01	DAE in Civil Technology with minimum 5 years' experience in preparation of drawings for projects of similar nature. (Situated at Lahore office)
<b>c) Contractor's Technical Staff, Skilled &amp; Un Skilled Labour</b> The contractors will employ the supervisory technical staff and skilled & unskilled labor for execution of works. The works will be supervised by experienced Engineers and sub engineers and the number of slots				

	<p>for engineers and skilled and un-skilled will depend upon the type and quantity of work and its period of completion.</p> <p><b>d) Repair &amp; Maintenance of the Project</b></p> <p>MC has its own regular staff which has been deployed for repair and maintenance of the municipal services infrastructure. However, it has been observed that the existing staff is not adequate to repair and maintain the services in a manner which can give good service delivery. Hence it is proposed to;</p> <ul style="list-style-type: none"> <li>• Fill up the presently vacant slots</li> <li>• Recruit additional staff as per need of the infrastructure after obtaining the sanctions from the competent authorities.</li> </ul>
14-Additional projects /decisions required to optimize the investment being undertaken	<p><b>Shortage &amp; Frequent Transfers of Provincially Appointed Staff</b></p> <p>The MC is facing shortage in provincially appointed and locally appointed cadres. This will seriously affect the pace of progress of the program and the implementation of the infrastructure projects may be delayed. Provincial Government should fill-up the vacant staff immediately for optimizing the investments and capacity building in MC.</p>

15-Certificate	<p>Certified that the project proposal has been prepared on the basis of guidelines provided by the Planning Commission for the preparation of PC-I for social sectors projects.</p>
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<b>Prepared by</b>	M/s MM Pakistan (Pvt) Ltd	Stamp & Signatures	
<b>Checked by</b>	Municipal Officer (Infrastructure) Municipal Committee Jhelum	Stamp & Signatures	

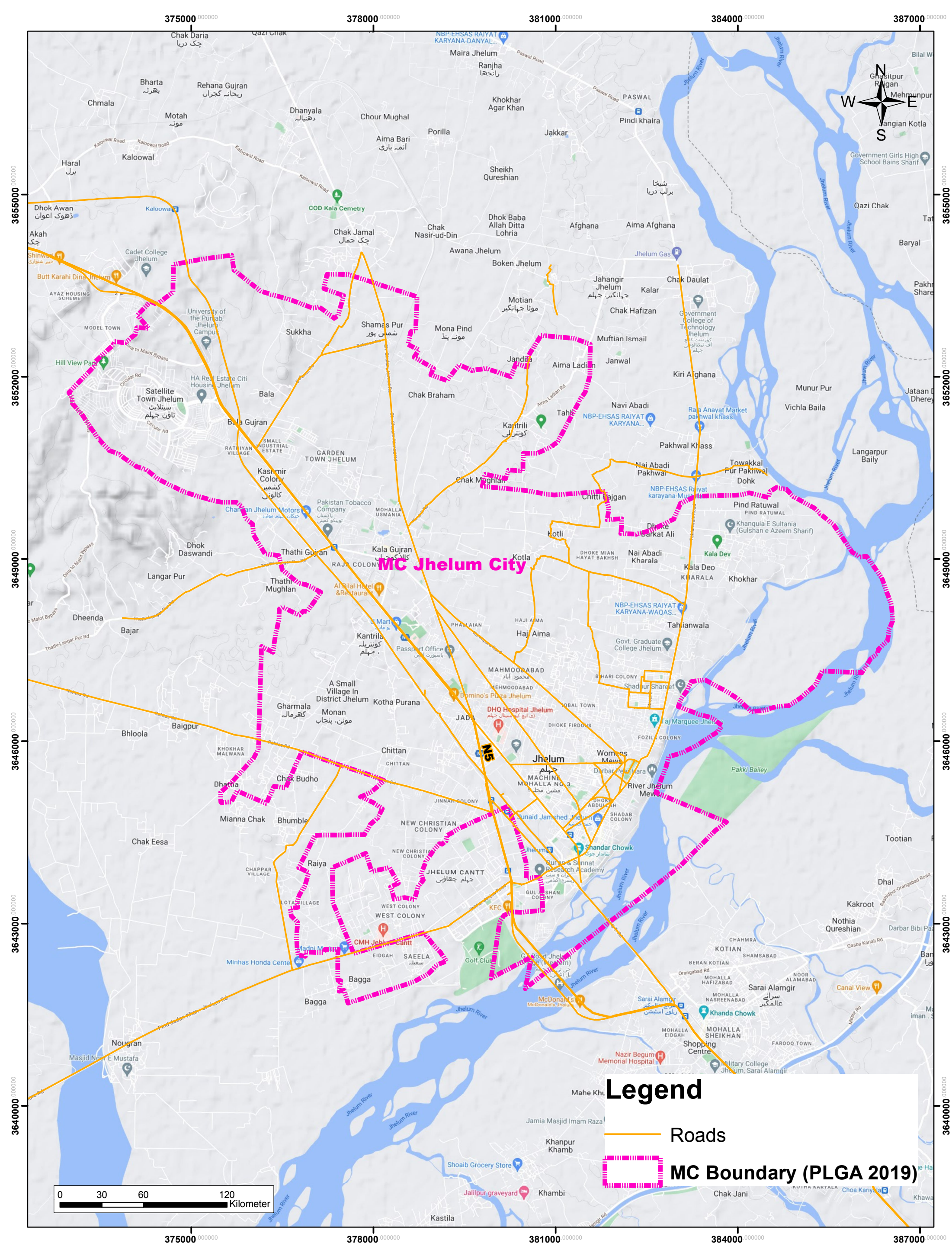
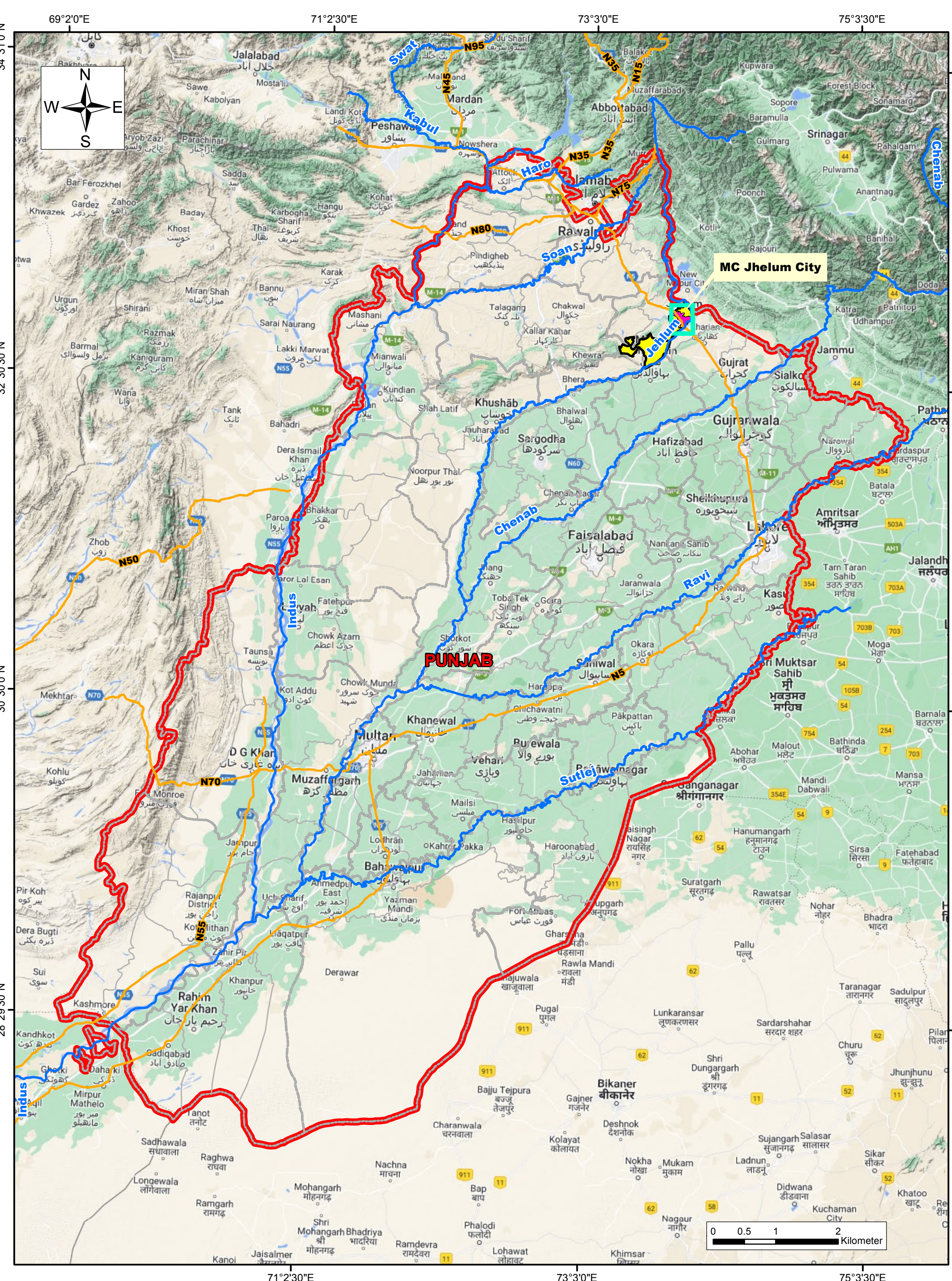
	Chief Officer Municipal Committee Jhelum	Stamp & Signatures	
<b>Forwarded by</b>	Administrator Municipal Committee Jhelum	Stamp & Signatures	

# **ANNEXURES**

# **ANNEXURE – A**

## **Location Map**







# **ANNEXURE – B**

## **Cost Estimates**

<p align="center"><b>DETAILED DESIGN OF INFRASTRUCTURE SUB - PROJECTS SECTOR</b></p> <p align="center"><b>CONSTRUCTION OF KALA GUJRAN PARKS IN JHELUM CITY</b></p> <p align="center"><b>SUB PROJECT - SECTOR PARK</b></p> <p align="center"><b><u>GENERAL ABSTRACT OF COST</u></b></p> <p>MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELUM</p>		
<b>Sr. No</b>	<b>Item Description</b>	<b>Amount (Rs)</b>
<b>A</b>	<b>CIVIL WORKS</b>	
<b>1</b>	<b>Kala Gujran Park</b>	
	Jogging Track	1,911,650
	Pathways	2,494,960
	Boundary Wall	6,675,493
	Grass, Tree Plantation	26,872,922
	Public toilet	1,492,300
	Cafeteria	5,067,000
	Indoor Play area (6500 Sft)	78,000,000
	Guard Room	545,700
<b>Sub Total of (A) Cost (Rs) - Civil Works</b>		<b>123,060,024</b>
<b>B</b>	<b>ELECTRICAL WORKS</b>	
<b>3</b>	<b>Kala Gujran Park</b>	<b>8,787,770</b>
<b>Sub Total of (B) Cost (Rs) - Electrical Works</b>		<b>8,787,770</b>
<b>C</b>	<b>WATER SUPPLY AND SEWERAGE WORKS</b>	
<b>5</b>	<b>Kala Gujran Park</b>	<b>6,852,675</b>
<b>Sub Total of (C) Cost (Rs) - Water Supply and Sewerage Works</b>		<b>6,852,675</b>
<b>Total Cost (Rs) A + B + C</b>		<b>138,700,469</b>
Add 2% Contingency		2,774,009
Add 5% PST		6,935,023
IEE Implementation Cost		753,000.00
Escalation @ 5%		6,935,023.46
<b>Total Cost in (Rs)</b>		<b>156,097,526</b>
<b>Total Cost in (Million)</b>		<b>156.10</b>



## COST ESTIMATE FOR JOGGING TRACK

### CONSTRUCTION OF KALA GUJRAN PARKS IN JHELUM CITY

Sr. #	Chap Ref	Item No.	Description	No	Measurement			Quantity	Unit	Rate	Amount in PKR
					L	B	D/H				
MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELMUM											
1			Jogging Track ( Area calculate by autocad )	1	9972.00			9,972.00	Sft	31.60	315,132.65
2	6	52-a-ii	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embedded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect. a) Without Painting (ii) 18" high								
				2	1662.00			3324.00	Rft	480.3	1596517.20
										S.Total	1,911,649.85
Cost in Million's										1.91	

ROUGH COST ESTIMATE FOR JOGGING TRACK												
CONSTRUCTION OF KALA GUJRAN PARKS IN JHELM CITY												
For 100 Sft												
BACK UP CALCULATIONS OF QUANTITIES												
Sr. #	Chap Ref	Item No.	Description	No	Measurement				Quantity	Unit	Rate	Amount in PKR
I			MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELM									
1	3	6	Regular excavation dressed Jogging Track	1	10.00	10.00	1.00	100.00	0.100	1000 cft	4726.7	472.67
2	3	5	Earthowrk in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:-  i) 95% to 100% maximum modified AASHO dry density	1	10	10	0.5	50.00	0.050	1000 cft	9963.4	498.17
3	3	17	Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m)  a) upto ¼ mile (400 m). b) for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km. c) for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km). 3km is taken									
4	Analysis attached		Pea Gravel surfacing Jogging Track	1	10	10	0.17	17.00	17.000	1 Cft	111.00	1,887.00
			Total Cost per 100 Sft									3,160.18
			Cost pr Sft									31.60

**DETAILED DESIGN OF INFRASTRUCTURE SUB - PROJECTS SECTOR**  
**CONSTRUCTION OF KALA GUJRAN PARKS IN JHELUM CITY**  
**MEHMOOD PARK**

**Rate Analysis for providing and laying Pea Gravel**

**MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELUM**

Description	Unit Rate (British System) per 100 Cft		
	Qty	Rate per Unit	Amount (Rs)
<b>Material</b>			
Pea Gravel 100 % MRS 07.003 = Rs. 6100/100Cft	100	61.00	6,100.00
Sweet clay 00 % MRS 07.003 = Rs. 500/100Cft		5.00	-
<b>Total</b>			<b>6,100.00</b>
<b>Labour</b>			
Coolies un-skilled	3 - Nos.	1050	3,150.00
<b>Total</b>			<b>3,150.00</b>
<b>Total labour + material</b>			<b>9,250.00</b>
20% Contractor's O.H. & Profit	Rs.	0.20	<b>1,850.00</b>
Total for 100 Cft			<b>11,100.00</b>
Composite rate per 100 Cft			<b>11,100.00</b>
<b>Composite rate per Cft</b>	<b>Rs.</b>	<b>111.00</b>	<b>111.00</b>

## COST ESTIMATE FOR PATHWAY

### CONSTRUCTION OF KALA GUJRAN PARKS IN JHELUM CITY

Sr. #	Chap Ref	Item No.	Description	No	Measurement			Quantity	Unit	Rate	Amount in PKR
					L	B	D/H				
			MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELMUM								
1			Pathway ( Area calculate by autocad )	1	7320			7320	Sft	204	1,491,133.04
3	6	52-a-ii	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect. a) Without Painting (ii) 18" high								
				2	1045.00			2090.00	Rft	480.3	1,003,827.00
S.Total										2,494,960.04	
Cost in Million's										2.49	

ROUGH COST ESTIMATE FOR PATHWAYS												
CONSTRUCTION OF KALA GUJRAN PARKS IN JHELMUM CITY												
For 100 Sft												
BACK UP CALCULATIONS OF QUANTITIES FOR PATHWAY												
Sr. #	Chap Ref	Item No.	Description	No	Measurement				Quantity	Unit	Rate	Amount in PKR
					L	B	D/H	Qty				
I			MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELMUM									
1	3	6	Regular excavation dressed									
			Pathway	1	10.00	10.00	1.00	100.00	0.10	1000 cft	4,726.70	472.67
2	6	2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50									
				1	10.00	10.00	0.42	42.00	0.42	100 cft	9,900.00	4,158.00
3	10	41b	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. b) 60-mm thick									
			50 % grey / 50 % coloured a) 60 mm thick	1	10.00	10.00		100.00	100.00	Sft	157.40	15,740.00
			Total Cost per 100 Sft									20,370.67
			Cost pr Sft									203.71

CONSTRUCTION OF KALA GUJRAN PARKS IN JHELM CITY							
District	Jhelum		Rate Analysis for Bajri				
City	Jhelum						
Quarry	Margalla Hills						
Lead	135	Km					
Sr.No	Mrs.		Description of Item	Unit	Rate	Amount	Remarks
	Chap	Item					
1	1	1	A) <u>Extra for Carriage</u> Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.				3) The quantity of crushed stone aggregate for payment of carriage shall betaken as per actual loose volume but not more than 122 Cft.
			1st Km	100 Cft	305.40	305.40	
			2nd Km	100 Cft	145.65	145.65	
			3rd Km	100 Cft	114.10	114.10	
			4th Km	100 Cft	81.20	81.20	
			5th Km	100 Cft	75.85	75.85	
			6th Km	100 Cft	74.60	74.60	
			7th Km	100 Cft	69.60	69.60	
			8th Km	100 Cft	68.85	68.85	
			9th Km	100 Cft	64.75	64.75	
			10th Km	100 Cft	60.75	60.75	
			11th Km	100 Cft	6,525.00	6,525.00	
			to 135 Km : 135 - 10 = 125 x 52.20	100 Cft	6,525.00	6,525.00	
			Sub - Total (A)			7,585.75	
			B) <u>Extra Carriage for 22 Cft Material</u> = 7,585.75 x 0.22	100 Cft	1,668.87	1,668.87	
			Sub - Total (B)			1,668.87	
			<div>50 Cft</div>				
			Total (A+B )			9,254.62	
For 100 Cft			9,254.62				
For Per Cum			3,268.24				

ROUGH COST ESTIMATE FOR PARK MAIN ENTRANCE GATE & BOUNDARY WALL											
CONSTRUCTION OF KALA GUJRAN PARKS IN JHELUM CITY											
MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELUM											
S.No	MRS.Ref	Description	No	Measurement			Quantity	Unit	Rate	Amount in PKR	
Ch	Item			Length	Breadth	Height					
1	3	21.b.ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead composite rate by or upto one chain (30 m) and lift upto 5 ft. (1.5 m) b) By Excavator								
			Main Gate Columns	3	3.00	3.00	4.00	108.00			
			Small Gate Columns	2	3.00	3.00	4.00	72.00			
			Total Length of Boundary wall	1	560.00			-			
			after deduction of columns	1	377.00	2.00	3.00	2,262.00			
			Boundary wall columns	61	3.00	3.00	3.00	1,647.00			
			Total					4,089.00	1000.Cft	8,045.40	32,897.64
2	3	13-a	Rehandling of earthwork:								
			a) Lead upto a single throw of Kassi, phaorah or shovel		4,089.00		0.80	3,271.20			
			Total:					3,271.20	1000.Cft	2,539.70	8,307.87
3	6	5-i	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate, Ratio 1:4:8								
			Gate Columns	3	3.00	3.00	0.33	8.91			
			Small Gate Columns	2	3.00	3.00	0.33	5.94			
			Boundary wall	1	377.00	2.00	0.33	248.82			
			Boundary wall columns	61	3.00	3.00	0.33	181.17			
			Total					444.84	100 Cft	27,777.30	123,564.54
	6	6-a.i.3	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-								

	6	6-a.i.3	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-								
4	6	6-a.i.3	(3) Type C (nominal mix 1: 2: 4)								
			Gate Columns	3	0.75	0.75	13.42	22.65			
			Footing	3	2.50	2.50	1.00	18.75			
			Sub-Gate Columns	2	0.75	0.75	13.42	15.10			
			Footing	2	2.50	2.50	1.00	12.50			
			Total					68.99	Cft	539.60	37,229.03
5	6	12-b	Fabrication of mild steel reinforcement for cement concrete,including cutting, bending, laying in position,making joints and fastenings,including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-								
			Grade-40								
			Qty as per RCC in Columns	6.75	Lb/Cft	68.99	Cft	201.51			
			Sub total					201.51	Lbs		
			Total Weight in Kg					91.40	100.Kg	31,396.15	28,697.44
6	7	7-i	Pacca brick work other than building upto 10ft. (3 m) height complete in all respects as per drawings, specifications and as directed by the Engineer in charge. (1:4)								
			Gate columns	3	6.00	0.75	10.75	145.13			
			Foundation	3	6.00	1.33	2.67	63.92			
			2nd gate columns	2	6.00	0.75	10.75	96.75			
				2	6.00	1.33	2.67	42.61			
			B.wall columns	61	1.50	1.50	8.25	1,132.31			
			Foundation	61	1.13	1.13	2.67	207.97			
			B.wall (Average Height)	1	377.00	0.75	4.75	1,343.06			
			Foundation	1	377.00	1.13	0.50	213.01			
			Foundation	1	377.00	1.50	0.50	282.75			
			Total					3,527.51	100.Cft	32,956.30	1,162,535.69
7	11	9-b	Cement plaster 1:4 upto 20' (6.00 m) height, 1:4, complete in all respects								
			B.wall	2	377.00		2.00	1,508.00			
			Total					1,508.00	100.Sft	3,241.60	48,883.33
8	6	36-a.i	Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating i) 1½" thick (40 mm)								
			B.wall	2	377.00	0.75		565.50			



			Total					565.50	100.Sft	8,604.30	48,657.32
9	25	59-ii	Providing and fixing M.S. grill fabricated with MS Square polished Vertical/horizontal Bars of specified size @ 4" c/c ' passed through punched holes in MS Patti of 1-1/4"x1/8" i/c the cost of 1-1/4"x1/8" MS patti for Frame of windows and painting 3 coat complete in all respect as approved and directed by the Engineer Incharge.								
			(ii) 1/2" Squar Bars	61	8.01	3.90	avg height	1,905.58	Sft	987.75	1,882,235.66
10	25	68	P/F iron grated Gate comprising of 2-1/2"x2-1/2"x3/8" angle iron chowkat ,2"x2"x3/8" angle iron frame and with 3/4" square bar at 4" center to center penetrate through punch holes of 2-nos 2"x3/8" MS flat horizontal bracings i/c cost of gussest plates of 3/8" MS sheet, hinges, MS Sliding Bolts and three coats of painting complete in all respect as approved and directed by the Engineer incharge								
			Main gate	1	22.00	7.66	average height	168.52			
			Ladies gate	1	16.00	7.04	average height	112.64			
			Fence	46.66	8.08	1.93		727.74			
			Total					1,008.90	Sft	2,834.05	2,859,260.76
11	7	39	Providing and laying 4-1/2" thick fair face Special brick Cladding								
			Gate Columns	3	10.68		8.00	256.32	Sft	215.20	55,160.06
12	7	38	Providing and laying fair face Gutka cladding laid in (1:2) cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wire in shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing , complete in all respect as approved and directed by the Engineer Incharge								
			i. 2-1/4" x 2-1/4" x 9"								
			Boundary wall columns	61	1.71		3.25	338.68			
			Boundary wall columns	61	4.50		4.75	1,303.88			
								1,642.55	Sft	181.45	298,041.08
13	13	33-a	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:								
			1st coat	2	377.00	1.67		1,255.41	100.Sft	3,319.85	41,677.73
			2nd coat	2	377.00	1.67		1,255.41	100.Sft	1,925.45	24,172.29
			3rd coat	2	377.00	1.67		1,255.41	100.Sft	1,925.45	24,172.29
Sub.Total of M.Gate & Boundary Wall											6,675,492.73

COST ESTIMATE FOR REHABILITATION OF PARK MAIN ENTRANCE GATE & BOUNDARY WALL								
CONSTRUCTION OF KALA GUJRAN PARKS IN JHELUM CITY								
MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELUM								
S.No	MRS.Ref		Description		Quantity	Unit	Rate	Amount in PKR
	Ch	Item		D/H				
			<u>Supply &amp; Installation of Plants and Trees.</u>					
			<u>Soil Preparaion</u>					
1	3	6	Regular excavation dressed and disposal of unsuitable material upto 3 km.		152,465.00	Cft	11.77	1,795,039.05
			(Rate analysis attached)					
2	Input	7.003	Supply & laying of good earth (sweet soil ) at site.		152,465.00	Cft	14.10	2,150,320.62
			(Rate analysis attached)					
			<b>Fertilizer</b>					
3	N-S	N-S	Supplying of sweet soil		50.00	Bag	120.00	6,000.00
4	N-S	N-S	Supplying of Urea		70.00	Bag	4,000.00	280,000.00
5	N-S	N-S	Supplying of Dap		50.00	Bag	14,500.00	725,000.00
6	N-S	N-S	Supplying of Cow manure		10,000.00	Bag	200.00	2,000,000.00
7	N-S	N-S	Supplying of Termiticides& Pesticides		50.00	Bag	1,800.00	90,000.00
8	Non MRS		Terminalia Tree		1.00	Each	2,200.00	2,200.00
9	Non MRS		Phoenix Palm		8.00	Each	2,200.00	17,600.00
10	Non MRS		Alstonia Tree		7.00	Each	2,200.00	15,400.00
11	Non MRS		Gulmahar		6.00	Each	3,500.00	21,000.00
12	Non MRS		Jacaranda Tree		8.00	Each	3,000.00	24,000.00
13	Non MRS		Yucca		6.00	Each	2,800.00	16,800.00
14	Non MRS		Rain Tree		7.00	Each	4,500.00	31,500.00
16	Non MRS		Plumbago		16.00	Each	150.00	2,400.00
13	Non MRS		Bismarkia		6.00	Each	2,000.00	12,000.00
14	Non MRS		Conocapus		20.00	Each	180.00	3,600.00
15	Non MRS		Cone Topiary		3.00	Each	5,500.00	16,500.00
17	Non MRS		Star Jasmine		67.00	Each	250.00	16,750.00
18	Non MRS		Jatropha		46.00	Each	250.00	11,500.00
19	Non MRS		Kaner		20.00	Each	250.00	5,000.00
20	Non MRS		Bougain plant		42.00	Each	350.00	14,700.00
21	Non MRS		Lagerstroemia		45.00	Each	2,500.00	112,500.00
22	Non MRS		Alternanthera		41.00	Each	60.00	2,460.00
23	Non MRS		Hibiscus		27.00	Each	250.00	6,750.00
24	Non MRS		Bamboos Conocapus		76.00	Each	400.00	30,400.00
			Prices are Ex-Nursery. Add 20% Overheads and fixing for item 3 to 24					692,812.00

COST ESTIMATE FOR REHABILITATION OF PARK MAIN ENTRANCE GATE & BOUNDARY WALL								
CONSTRUCTION OF KALA GUJRAN PARKS IN JHELUM CITY								
MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELUM								
S.No	MRS.Ref		Description		Quantity	Unit	Rate	Amount in PKR
	Ch	Item		D/H				
25	Ch-3 Item-32		Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).		152,465.00	100 Sft	1,848.00	2,817,553.20
26	Non MRS		Concrete Benche with M.S Table		1.00	Each	76,000.00	76,000.00
27	Non MRS		Concrete Benche		14.00	Each	14,000.00	196,000.00
28	Non MRS		Gazebo (Quotation attached)		2.00	Each	1,300,000.00	2,600,000.00
29	Non MRS		Net Cricketing		1.00	Each	4,469,800.00	4,469,800.00
30	Non MRS		UG Water Tank		1.00	Each	8,348,685.00	8,348,685.00
31	Non MRS		Wrought Iron Bench		5.00	Each	35,000.00	175,000.00
32	Non MRS		Dust Bin		8.00	Each	5,000.00	40,000.00
33	MRS		Thick Harrow Sand (MRS 06.006)		284.00	Cft	78.00	22,152.00
34	Non MRS		Pergola		1.00	Each	25,500.00	25,500.00
								26,872,921.87
Sub.Total								26,872,921.87

<p align="center"><b>CONSTRUCTION OF KALA GUJHRAN PARKS IN JHELUM CITY</b>  <b>Estimate for Male and Female Toilet</b></p>	
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**MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELM**

Sr No	MRS		DESCRIPTION	Qty		Unit	Rate	Amount
	1st 2023							Rs.
	Ch.	Item						
1	3	21.iii	Excavation in foundation of building, bridges and other structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)					
			a) By Manual ii) in ordinary soil.					
			9" walls 1 x 1.00 x 17.54 x 3.00 x 3.50 = 184.17 Cft					
			1 x 2.00 x 2.08 x 3.00 x 3.50 43.74					
			1 x 2.00 x 5.47 x 3.00 x 3.50 114.87					
			1 x 1.00 x 2.52 x 3.00 x 3.50 26.46					
			13.5" walls 1 x 2.00 x 1.21 x 3.00 x 3.50 25.38					
			4-1/2" walls 1 x 1.00 x 10.96 x 1.50 x 2.50 41.09					
			1 x 3.00 x 5.00 x 1.50 x 2.50 56.25					
			1 x 1.00 x 14.58 x 1.50 x 2.50 54.68					
			1 x 3.00 x 4.50 x 1.50 x 2.50 50.63					
			Toe wall 1 x 1.00 x 4.75 1.25 1.83 10.87					
			Total = 184.17 Cft	184.17	Cft	1,000.00	13,046.90	2,403.00
2	6	5f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):					
			(f) Ratio 1: 2:4 2.00 7.00 - 5.00 - 0.25 - 17.50 Cft					
			1.00 4.25 - 4.50 - 0.25 - 4.78 Cft					
			3.00 3.25 - 4.50 - 0.25 - 10.97 Cft					
			Male side 1.00 2.50 3.00 0.58 4.35 Cft					
			1.00 2.50 2.00 0.75 3.75 Cft					
			1.00 2.50 1.00 0.75 1.88 Cft					
			FeMale side 1.00 4.83 3.00 0.50 7.25 Cft					
			1.00 4.83 2.25 0.50 5.43 Cft					
			1.00 4.83 1.50 0.50 3.62 Cft					
			1.00 4.83 0.75 0.50 1.81 Cft					
			Total = 61.34 Cft	61.34	Cft	100.00	37,614.70	23,071.92
3	6	5.i	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):					
			(i) Ratio 1:4:8)					
			9" walls 1 x 1.00 x 17.54 x 3.00 x 0.50 = 26.31 Cft					
			1 x 2.00 x 2.08 x 3.00 x 0.50 = 6.25 Cft					
			1 x 2.00 x 5.47 x 3.00 x 0.50 = 16.41 Cft					
			1 x 1.00 x 2.52 x 3.00 x 0.50 = 3.78 Cft					
			13.5" walls 1 x 2.00 x 1.21 x 3.00 x 0.50 = 3.63 Cft					
			4-1/2" walls 1 x 1.00 x 10.96 x 1.50 x 0.50 = 8.22 Cft					
			1 x 3.00 x 5.00 x 1.50 x 0.50 = 11.25 Cft					
			1 x 1.00 x 14.58 x 1.50 x 0.50 = 10.94 Cft					
			1 x 3.00 x 4.50 x 1.50 x 0.50 = 10.13 Cft					
			under Floor 1 x 2.00 x 7.00 x 5.00 x 0.33 = 23.31 Cft					
			1 x 3.00 x 3.25 x 4.50 x 0.33 = 14.61 Cft					
			1 x 1.00 x 4.25 x 4.50 x 0.33 = 6.37 Cft					
			Toe wall 1 x 1.00 x 4.75 1.25 0.33 1.96 Cft					
			Entrance steps 1 x 1.00 x 1.25 x 4.75 x 0.33 = 1.98 Cft					
			Total = 145.13 Cft	145.13	Cft	100.00	28,513.19	41,381.00
4	7	4	Pacca brick work in foundation and plinth in:-i) Cement, sand mortar:- Ratio 1:4) 1st step 9" walls 1 x 1.00 x 17.54 x 1.50 x 0.50 = 13.16 Cft					

5	6	36-a -ii		1 x 2.00 x 2.08 x 1.50 x 0.50 = 3.12 Cft	443.87	Cft	100.00	32,454.60	144,054.63							
				1 x 2.00 x 5.47 x 1.50 x 0.50 = 8.21 Cft												
				1 x 1.00 x 2.52 x 1.50 x 0.50 = 1.89 Cft												
			13.5" walls	1 x 2.00 x 1.21 x 1.50 x 0.50 = 1.81 Cft												
			4-1/2" walls	1 x 1.00 x 10.96 x 1.13 x 0.50 = 6.16 Cft												
				1 x 3.00 x 5.00 x 1.13 x 0.50 = 8.44 Cft												
				1 x 1.00 x 14.58 x 1.13 x 0.50 = 8.20 Cft												
				1 x 3.00 x 4.50 x 1.13 x 0.50 = 7.59 Cft												
			Toe wall	1 x 1.00 x 4.75 0.75 4.50 16.03 Cft												
			2nd step													
			9" walls	1 x 1.00 x 17.54 x 1.13 x 0.50 = 9.87 Cft												
				1 x 2.00 x 2.08 x 1.13 x 0.50 = 2.34 Cft												
				1 x 2.00 x 5.47 x 1.13 x 0.50 = 6.15 Cft												
				1 x 1.00 x 2.52 x 1.13 x 0.50 = 1.42 Cft												
			13.5" walls	1 x 2.00 x 1.21 x 1.13 x 0.50 = 1.36 Cft												
			4-1/2" walls	1 x 1.00 x 10.96 x 0.75 x 5.00 = 41.09 Cft												
				1 x 3.00 x 5.00 x 0.75 x 5.00 = 56.25 Cft												
				1 x 1.00 x 14.58 x 0.75 x 5.00 = 54.68 Cft												
				1 x 3.00 x 4.50 x 0.75 x 5.00 = 50.63 Cft												
			3rd step													
			9" walls	1 x 1.00 x 17.54 x 0.75 x 5.00 = 65.78 Cft												
				1 x 2.00 x 2.08 x 0.75 x 5.00 = 15.62 Cft												
				1 x 2.00 x 5.47 x 0.75 x 5.00 = 41.03 Cft												
				1 x 1.00 x 2.52 x 0.75 x 5.00 = 9.45 Cft												
			13.5" walls	1 x 2.00 x 1.21 x 1.13 x 5.00 = 13.59 Cft												
			Net Total = 443.87 Cft													
			Providing and laying damp proof course of cement concrete 1:2: 4(using cement, sand and shingle), including bitumen coating :-													
			(a) with one coat bitumen and one coat polythene sheet 500gauge													
			ii) 2" thick (50 mm)													
			9" walls	1 x 1.00 x 17.54 x 0.75 = 13.16 Sft						69.62	Cft	100.00	10,203.55	7,103.92		
				1 x 2.00 x 2.08 x 0.75 = 3.12 Sft												
				1 x 2.00 x 5.47 x 0.75 = 8.21 Sft												
				1 x 1.00 x 2.52 x 0.75 = 1.89 Sft												
			13.5" walls	1 x 2.00 x 1.21 x 1.13 = 2.72 Sft												
			4-1/2" walls	1 x 1.00 x 10.96 x 0.75 = 8.22 Sft												
				1 x 3.00 x 5.00 x 0.75 = 11.25 Sft												
				1 x 1.00 x 14.58 x 0.75 = 10.94 Sft												
				1 x 3.00 x 4.50 x 0.75 = 10.13 Sft												
			Net Total = 69.62 Sft													
			Pacca brick work in ground floor:-													
			Ratio 1:4)													
			9" walls	1 x 1.00 x 17.54 x 0.75 x 8.00 = 105.24 Cft												
				1 x 2.00 x 2.08 x 0.75 x 8.00 = 25.00 Cft												
				1 x 2.00 x 5.47 x 0.75 x 8.00 = 65.64 Cft												
				1 x 1.00 x 2.52 x 0.75 x 8.00 = 15.12 Cft												
13.5" walls	1 x 2.00 x 1.21 x 1.13 x 8.00 = 21.75 Cft															
4-1/2" walls	1 x 1.00 x 10.96 x 0.75 x 8.00 = 65.75 Cft															
	1 x 3.00 x 5.00 x 0.75 x 8.00 = 90.00 Cft															
	1 x 1.00 x 14.58 x 0.75 x 8.00 = 87.48 Cft															
Deductions 1																
Vent	-1 4.00 2.00 0.75 2.00 = (12.00) Cft															
D-2	-1 4.00 2.50 0.38 7.00 = (26.25) Cft															
D-1	-1 2.00 2.50 0.38 7.00 = (13.13) Cft															
Lintles																
Vent	-1 4.00 3.00 0.75 0.75 = (6.75) Cft															

			D-2	-1	4.00	3.50	0.38	0.75	=	(3.94)	Cft					
			D-1	-1	2.00	3.50	0.38	0.75	=	(1.97)	Cft					
			Net Total = 411.94 Cft									411.94	Cft	100.00	34,857.00	143,591.58
7	6	6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-													
			(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-													
			(3) Type C (nominal mix 1: 2: 4)													
			= - Cft													
			Total = - Cft									-	Cft	1.00	456.95	-
8			(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-													
			(3) Type C (nominal mix 1: 2: 4)													
			Slab	1	x	1.00	x	12.54	x	6.87	x	0.50	=	43.07	Cft	
			1.18	2		4.00		12.54	+	20.54		0.50	=	78.07	Cft	
			1.18	2		4.00		6.87	+	14.87		0.50	=	51.31	Cft	
			Bottom	2		2.33		12.54	+	20.54		0.50	=	38.54	Cft	
				2		2.33		6.87	+	14.87		0.50	=	25.33	Cft	
			Vertical	2		0.46		12.54	+	20.54		0.90	=	13.58	Cft	
				2		0.46		6.87	+	14.87		0.90	=	8.93	Cft	
			Lintles													
			Vent	1		4.00		3.00		0.75		0.75	=	6.75	Cft	
			D-2	1		4.00		3.50		0.38		0.75	=	3.94	Cft	
			D-1	1		2.00		3.50		0.38		0.75	=	1.97	Cft	
			Total = 271.48 Cft									271.48	Cft	1.00	566.35	153,755.19
9	6	12.c	Fabrication of mild steel reinforcement for cement concrete,including cutting, bending, laying in position,making joints and fastenings,including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-													
			('c) Deformed bars (Grade-60													
			Qty:as per item No.	7.00	=	-	x	6.75	/	2.20	=	-	Kg			
				7.00	=	271.48	x	6.75	/	2.20	=	831.45	Kg			
			Total = 831.45 Kg									831.45	Kg.	100.00	31,945.90	265,614.75
			<b>FLOOR</b>													
10	7	30	Supplying and filling sand under floor; or plugging in wells.													
				2.00		7.00		5.00		2.25			157.50	Cft		
				1.00		4.25		4.50		2.25			43.03	Cft		
				3.00		3.25		4.50		2.25			98.72	Cft		
			Total = 299.25 Cft									299.25	Cft	100.00	2,862.00	8,564.54
11	10	3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects													
				2.00		7.00	-	5.00	-	0.33	-		23.10	Cft		
				1.00		4.25	-	4.50	-	0.33	-		6.31	Cft		
				3.00		3.25	-	4.50	-	0.33	-		14.48	Cft		
			Total = 43.89 Cft									43.89	Cft	100.00	10,256.50	4,501.58
12	10	42	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge													

13	10	43	a) Full body Glazed tiles															
			(ii) 600mmx 600 mm															
				2.00		7.00		5.00			70.00	Sft						
				1.00		4.25		4.50			19.13	Sft						
13	10	43		3.00		3.25		4.50			43.88	Sft						
			Total = 133.00 Sft										133.00	Sft		1.00	360.40	47,933.20
			Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.															
			a) Full body Glazed tiles															
13	10	43	(ii) 600mmx 600 mm															
			Inside	2	2.00	x	7.00	+	5.00	x	7.00	336.00	Sft					
				2	1.00		4.25	+	4.50		7.00	122.50	Sft					
				2	3.00		3.25	+	4.50		7.00	325.50	Sft					
13	10	43	Less Doors	-1	2.00		2.50				7.00	(35.00)	Sft					
				-2	4.00		2.50				7.00	(140.00)	Sft					
			Less vents	-1	4.00		2.00				2.00	(16.00)	Sft					
			Total Inside 593.00 Sft															
13	10	43	niece face	1	3.00		1.50				1.50	6.75	Sft					
			niece sides	4	3.00		0.38				1.50	6.75	Sft					
			Out side below exhaust fans	4	1.00		2.00				4.00	32.00	Sft					
			Total outside 45.50 Sft															
14	10	50	Total = 638.50 Sft										638.50	Sft		1.00	360.40	230,115.40
			Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge															
			ii) 3/4" thick (12"x24"/12"x36")															
			Male side		4.00		2.50		1.00			10.00	Sft					
14	10	50	FeMale side		4.00		4.83		0.75			14.49	Sft					
					1.00		2.50		0.75			1.88	Sft					
			Total = 26.37 Sft										26.37	Sft		1.00	1,508.45	39,770.28
15	10	46	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge															
			(ii) 1/2" thick															
			Male side		4.00		2.50				0.75	7.50	Sft					
					2.00		3.00				0.75	4.50	Sft					
15	10	46			2.00		2.00				0.75	3.00	Sft					
					2.00		1.00				0.75	1.50	Sft					
			FeMale side		5.00		4.83				0.50	12.08	Sft					
					2.00		1.50				0.50	1.50	Sft					
15	10	46			2.00		0.75				0.50	0.75	Sft					
			Total = 30.83 Sft										30.83	Sft		1.00	1,193.45	36,788.10
16	10	48	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.															
			Steps nosing															
			Male side		4.00		2.50					10.00	Rft					
			FeMale side		5.00		4.83					24.15	Rft					
16	10	48	Total = 34.15 Rft										34.15	Rft		1.00	27.90	952.79
17	11	8.b	SURFACE RENDERING															
			Cement Plaster 1;3 upto 20' height 1/2" Thick (in side )															
			Out side	1	x	2.00	x	17.54		x	11.00	=	385.88	Sft				
				1	x	2.00	x	12.25		x	11.00	=	269.50	Sft				
17	11	8.b		1	x	2.00		0.75		x	11.00	=	16.50	Sft				
				4	x	2.00		0.38			11.00	=	33.00	Sft				

18	11	10b	Femail entrance	1	x	2.00	x	2.08		x	8.00	=	33.28	Sft					
			Niece	6		4.00		1.50			0.38	=	13.50	Sft					
			Less vent	-1		4.00		2.00			2.00	=	(16.00)	Sft					
			Less door	-2		1.00		2.50			7.00	=	(35.00)	Sft					
			Less steps	-1		1.00		2.50			3.00		(7.50)	Sft					
				-1		1.00		4.75			3.00		(14.25)	Sft					
			Inside	3	x	2.00	x	3.25	+	4.50	x	8.00	=	372.00	Sft				
				1	x	2.00	x	4.25	+	4.50	x	8.00	=	140.00	Sft				
				2	x	2.00	x	7.00	+	5.00	x	8.00	=	384.00	Sft				
			Less door	-2		4.00		2.50			7.00		(140.00)	Sft					
19	11	32	Less door	-1		2.00		2.50			7.00		(35.00)	Sft					
			Less vent	-1		4.00		2.00			2.00	=	(16.00)	Sft					
			Net Total									=	1,383.91	Sft	1,383.91	Sft	100.00	3,635.05	50,305.82
			Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height																
						2.00		2.08		0.75			3.12	Sft					
						2.00		5.47		0.75			8.21	Sft					
						1.00		2.52		0.75			1.89	Sft					
			Net Total									=	13.22	Sft	13.22	Sft	100	3,960.25	523.53
			Providing grooved cement sand plaster 1:3 over existing plastered and roughened surface upto 20' (6.00 m) height.																
			ii) ½" (13 mm) thick																
20	11	23		1		1.00		10.94			11.00		120.34	Sft					
			Net Total									=	120.34	Sft	120.34	Sft	100.00	4,004.65	4,819.20
			Distempering:-																
			a) new surface:-																
			Inside	3	x	2.00	x	3.25	+	4.50	x	8.00	=	372.00	Sft				
				1	x	2.00	x	4.25	+	4.50	x	8.00	=	140.00	Sft				
				2	x	2.00	x	7.00	+	5.00	x	8.00	=	384.00	Sft				
			Less door	-2		4.00		2.50			7.00		(140.00)	Sft					
			Less door	-1		2.00		2.50			7.00		(35.00)	Sft					
			Less vent	-1		4.00		2.00			2.00	=	(16.00)	Sft					
21	13	33	Less tiles inside										(593.00)	Sft					
			Ceiling								Slope Factor								
				3		1.00		3.25		4.50		1.15	50.46	Sft					
				1		1.00		4.25		4.50		1.15	21.99	Sft					
				2		1.00		7.00		5.00		1.15	80.50	Sft					
			3 Coats										264.95	Sft	264.95	Sft	100.00	1,446.35	3,832.10
			Net Total									=	264.95	Sft					
			Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:																
			a) new surface:																
			Out side	1		2.00		17.54			11.00		385.88	Sft					
				1		2.00		12.25			11.00		269.50	Sft					
				1		2.00		0.75			11.00		16.50	Sft					
				4		2.00		0.38			11.00		33.00	Sft					
			Femail entrance	1		2.00		2.08			8.00		33.28	Sft					
			Niece	6		4.00		1.50			0.38		13.50	Sft					
			Less vent	-1		4.00		2.00			2.00		(16.00)	Sft					
			Less door	-2		1.00		2.50			7.00		(35.00)	Sft					
			Less steps	-1		1.00		2.50			3.00		(7.50)	Sft					
				-1		1.00		4.75			3.00		(14.25)	Sft					
			Less tiles out side										(45.50)	Sft					
			Net Total									=	633.41	Sft	633.41	Sft	100.00	3,651.00	23,125.80



			2nd coat	633.41	Sft	633.41	Sft	100.00	2,101.80	13,313.01
			2nd coat	633.41	Sft	633.41	Sft	100.00	2,101.80	13,313.01
22	12	16	Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 20 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150 mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects: a) single rebate Doors                    1        2.00            2.50                    7.00            35.00    Sft 1        4.00            2.50                    7.00            70.00    Sft 1        4.00            2.00                    2.00            16.00    Sft							
23	12	52	121.00    Sft P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge. Doors                    1        2.00            2.50                    7.00            35.00    Sft 1        4.00            2.50                    7.00            70.00    Sft 1        4.00            2.00                    2.00            16.00    Sft 121.00    Sft							
						121.00	Sft	1.00	402.05	48,648.05
24	25	52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge 4.00            2.00                    2.00        =        16.00 Total                    =        16.00    Sft							
						16.00	Sft	1.00	1,336.55	21,384.80
25	9	50	<b>ROOF</b> Providing and laying high density single profile spanish glazed tapered barrel type of 4"- 5-1/2" dia Terra Cotta Khaprail Tile dipped or sealed with a water repellent, with Terra Cotta base plate ( 10"x16"), resistant to salt attack laid with laps and duly interlocked on slopping roof over 1/2" thick (1:3) cement sand mortar i/c cost of all material and labour complete in all respect as approved and directed by the Engineer Incharge. 1.18            2        4.00            12.54        +        20.54                    =        156.14    Sft 1.18            2        4.00            6.87        +        14.87                    =        102.61    Sft Total                    =        258.75    Sft							
						258.75	Sft	1.00	133.15	34,452.62
26	1	1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. Lead upto            135.00            from Margalla Hills quarry Pcc 1.4.8 :as per item No.            3.00        =        145.13        x        0.95        =        137.54    Cft Pcc 1.2.4 :as per item No.            2.00        =        61.34        x        0.88        =        53.98    Cft R.c.c 1.2.4 :as per item No.            7.00        =        271.48        x        0.88        =        238.91    Cft Total                    =        430.42    Cft							
						430.42	Cft	100.00	7,585.75	32,650.60
								<b>Total</b>		<b>1,492,250.10</b>
								<b>Say</b>		<b>1,492,300.00</b>

CONSTRUCTION OF KALA GUJRAN PARKS IN JHELMUM CITY														
Estimate for Cafeteria														
MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELMUM														
Sr No	MRS		DESCRIPTION	Qty	Unit	Rate	Amount							
	1st .2023						Rs.							
	Ch.	Item												
1	3	21.iii	Excavation in foundation of building, bridges and other structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)											
			a) By Manual ii) in ordinary soil.											
			9" walls 1 x 1.00 x 103.42 x 3.50 x 4.50 = 1,628.87 Cft											
			Service counter 1 x 1.00 x 10.75 x 3.50 x 4.50 169.31											
			Entrance 1 x 2.00 x 18.01 x 3.50 x 4.50 567.32											
			D-2 1 x 1.00 x 3.50 x 3.50 x 4.50 55.13											
			D-3 1 x 3.00 x 3.00 x 3.50 x 4.50 141.75											
			D-4 1 x 2.00 x 2.25 x 3.50 x 4.50 70.88											
			D-2 1 x 1.00 x 3.50 x 3.50 x 4.50 55.13											
			13.5" walls 1 x 1.00 x 8.00 x 3.50 x 4.50 126.00											
			4-1/2" walls 1 x 1.00 x 6.00 x 1.50 x 2.50 22.50											
			1 x 1.00 x 7.83 x 1.50 x 2.50 29.36											
			Toe wall 1 x 1.00 x 7.17 1.25 1.83 16.40											
			Toe wall 1 x 1.00 x 6.00 1.25 1.83 13.73											
			Total = 1,628.87 Cft	1,628.87	Cft	1000	21,252.00							
2	6	5f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):											
			(f) Ratio 1: 2:4											
			Under Steps											
			Front 1.00 6.00 4.50 0.50 13.50 Cft											
			1.00 6.00 3.50 0.50 10.50 Cft											
			1.00 6.00 2.50 0.50 7.50 Cft											
			1.00 6.00 1.50 0.50 4.50 Cft											
			Rear side 2.00 3.00 3.00 0.75 13.50 Cft											
			2.00 3.00 2.00 0.75 9.00 Cft											
			2.00 3.00 1.00 0.75 4.50 Cft											
			Area 1.00 17.08 area 3.00 51.24 Cft											
			1.00 44.00 area 3.00 132.00 Cft											
			Under Floor - Cft											
			Kitchen area 1.00 76.08 area 0.25 19.02 Cft											
			Storage area 1.00 56.14 area 0.25 14.04 Cft											
			Toilet 1.00 20.50 area 0.25 5.13 Cft											
			1.00 29.90 area 0.25 7.48 Cft											
			Court yard 1.00 158.13 area 0.25 39.53 Cft											
			Shop area 1.00 124.50 area 0.25 31.13 Cft											
			- Cft											
			Total = 362.55 Cft	362.55	Cft	100	136,373.32							
3	6	5.i	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):											
			(i) Ratio 1:4:8)											
			9" walls 1 x 1.00 x 103.42 x 3.50 x 0.33 = 119.45 Cft											
			Service counter 1 x 1.00 x 10.75 x 3.50 x 0.33 12.42 Cft											
			Entrance 1 x 2.00 x 18.01 x 3.50 x 0.33 41.60 Cft											
			D-2 1 x 1.00 x 3.50 x 3.50 x 0.33 4.04 Cft											
			D-3 1 x 3.00 x 3.00 x 3.50 x 0.33 10.40 Cft											
			D-4 1 x 2.00 x 2.25 x 3.50 x 0.33 5.20 Cft											
			D-2 1 x 1.00 x 3.50 x 3.50 x 0.33 4.04 Cft											
			13.5" walls 1 x 1.00 x 8.00 x 3.50 x 0.33 9.24 Cft											
			4-1/2" walls 1 x 1.00 x 6.00 x 1.50 x 0.33 2.97 Cft											

4	7	4		1	x	1.00	x	7.83	x	1.50	x	0.33	3.88	Cft	289.76	Cft	100	28,513.19	82,621.00
			Toe wall	1	x	1.00	x	7.17		1.25	0.33	2.96	Cft						
			Toe wall	1	x	1.00	x	6.00		1.25	0.33	2.48	Cft						
			Planters	1		1.00		91.08		area	0.33	=	30.05	Cft					
				1		2.00		31.65		area	0.33	=	20.89	Cft					
			Stair landing	1		1.00		44.00		area	0.33	=	14.52	Cft					
				1		1.00		17.08		area	0.33	=	5.64	Cft					

7	6	6	1	x	1.00	x	10.00	x	0.75	2.50	=	18.75	Cft						
			1	x	1.00	x	8.25	x	0.75	2.50	=	15.47	Cft						
			1	x	1.00	x	4.50	x	0.75	2.50	=	8.44	Cft						
			1	x	1.00	x	9.67	x	0.75	2.50	=	18.13	Cft						
			1	x	1.00	x	6.33	x	0.75	2.50	=	11.87	Cft						
			1	x	1.00	x	6.75	x	0.75	2.50	=	12.66	Cft						
			Deductions	1															
			Service counter	-1	x	1.00	x	7.17	x	0.75	x	7.00	=	(37.64)	Cft				
			Entrance	-1	x	2.00	x	18.01	x	0.75	x	7.00	=	(189.11)	Cft				
			D-2	-1	x	1.00	x	3.50	x	0.75	x	7.00	=	(18.38)	Cft				
			D-3	-1	x	3.00	x	3.00	x	0.75	x	7.00	=	(47.25)	Cft				
			D-4	-1	x	2.00	x	2.25	x	0.75	x	7.00	=	(23.63)	Cft				
			W-3	-1	x	1.00	x	4.00	x	0.75	x	3.50	=	(10.50)	Cft				
			W-4	-1	x	1.00	x	2.00	x	0.75	x	2.00	=	(3.00)	Cft				
			Less lintles																
			Service counter	-1	x	1.00	x	9.17	x	0.75	x	0.75	=	(5.16)	Cft				
			Entrance	-1	x	2.00	x	20.01	x	0.75	x	0.75	=	(22.51)	Cft				
			D-2	-1	x	1.00	x	5.00	x	0.75	x	0.75	=	(2.81)	Cft				
			D-3	-1	x	3.00	x	4.50	x	0.75	x	0.75	=	(7.59)	Cft				
			D-4	-1	x	2.00	x	3.75	x	0.75	x	0.75	=	(4.22)	Cft				
			W-3	-1	x	1.00	x	5.50	x	0.75	x	0.75	=	(3.09)	Cft				
			W-4	-1	x	1.00	x	3.50	x	0.75	x	0.75	=	(1.97)	Cft				
										Net Total	=	1,106.53	Cft	1,106.53	Cft	100	34,857.00	385,702.94	
			Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-																
			(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-																
			(3) Type C (nominal mix 1: 2: 4)																
			9" walls	1		1.00		103.42		3.00		1.00	=	310.26	Cft				
			Service counter	1		1.00		10.75		3.00		1.00	=	32.25	Cft				
			Entrance	1		2.00		18.01		3.00		1.00	=	108.06	Cft				
			D-2	1		1.00		3.50		3.00		1.00	=	10.50	Cft				
			D-3	1		3.00		3.00		3.00		1.00	=	27.00	Cft				
			D-4	1		2.00		2.25		3.00		1.00	=	13.50	Cft				
			13.5" walls	1		1.00		3.50		3.00		1.00	=	10.50	Cft				
			Planters	1		1.00		91.08	area			0.33	=	30.05	Cft				
				1		2.00		31.65	area			0.33	=	20.89	Cft				
			Stair landing	1		1.00		44.00	area			0.33	=	14.52	Cft				
				1		1.00		17.08	area			0.33	=	5.64	Cft				
										Total	=	583.17	Cft	583.17	Cft	1	456.95	266,479.30	
			(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-																
			(3) Type C (nominal mix 1: 2: 4)																
			Slab									=	-	Cft					
			Planter walls																
				1		2.00		3.00		0.33		3.00	=	5.94	Cft				
				1		2.00		6.75		0.33		3.00	=	13.37	Cft				
				1		1.00		13.00		0.33		3.00	=	12.87	Cft				



			Labour	0.10	77.00											
			Contractor's													
			O.H. Profit	0.20	169.40											
			Total		1,016.40											
12	3	32	Turving slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).													
			In planters	1.00	91.08	area	=	91.08	Sft							
				1.00	31.65	area	=	31.65	Sft							
				1.00	31.65	area	=	31.65	Sft							
							Total	=	154.38	Sft	154.38	Sft	100	1,848.00	2,852.94	
13	10	3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects													
			Court yard	1.00	158.13	x	area	x	0.33	=	52.18	Cft				
			Shop	1.00	124.46	x	area	x	0.33	=	41.07	Cft				
			Kitchen	1.00	76.08		area		0.33		25.11	Cft				
			Storage	1.00	56.37		area		0.33		18.60	Cft				
			Toilet	1.00	22.42		area		0.33		7.40	Cft				
			Toilet	1.00	31.85		area		0.33		10.51	Cft				
						x										
							Total	=	154.87	Cft	154.87	Cft	100	10,256.50	15,884.55	
14	10	42	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge													
			a) Full body Glazed tiles													
			(ii) 600mmx 600 mm													
			Court yard	1.00	158.13	-	area				158.13	Sft				
			Shop	1.00	124.46	-	area				124.46	Sft				
			Kitchen	1.00	76.08		area				76.08	Sft				
			Storage	1.00	56.37		area				56.37	Sft				
			Toilet	1.00	22.42		area				22.42	Sft				
			Toilet	1.00	31.85		area				31.85	Sft				
							Total	=	469.31	Sft	469.31	Sft	1	360.40	169,140.04	
15	10	43	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.													
			a) Full body Glazed tiles													
			(ii) 600mmx 600 mm													
			Court yard	1.00	58.42				0.50		29.21	Sft				
			Shop	1.00	44.58				0.50		22.29	Sft				
			Kitchen	1.00	37.50				0.50		18.75	Sft				
			Storage	1.00	29.50				0.50		14.75	Sft				
			Toilet	1.00	22.42				7.00		156.94	Sft				
			Toilet	1.00	31.85				7.00		222.95	Sft				
			Less door	(1.00)	17.00				0.50		(8.50)	Sft				
				(2.00)	3.50				0.50		(3.50)	Sft				
				(5.00)	3.00				0.50		(7.50)	Sft				
				(2.00)	2.50				7.00		(35.00)	Sft				
							Total	=	410.39	Sft	410.39	Sft	1	360.40	147,904.56	
16	10	50	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed , complete in all respect as approved and directed by the Engineer Incharge													
			ii) 3/4" thick (12"x24"/12"x36")													
			Floor													
			Counter	1.00	7.17		3.00				21.51	Sft				
			Steps	2.00	7.17		1.00				14.34	Sft				

				3.00	3.00	1.00	9.00	Sft						
				3.00	3.00	1.00	9.00	Sft						
			Front	5.00	6.00	1.00	30.00	Sft						
			Landing	1.00	17.08	area	17.08	Sft						
				1.00	23.98	area	23.98	Sft						
								Sft						
							Total =	124.91	Sft	124.91	Sft	1	1,508.45	188,426.52
17	10	50	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortar bed , complete in all respect as approved and directed by the Engineer Incharge											
			(ii) 1/2" thick											
			Counter	1.00	7.17	3.00	21.51	Sft						
			Site steps	2.00	3.00	3.00	18.00	Sft						
			Front side	1.00	6.00	3.00	18.00	Sft						
			Counter	1.00	7.17	4.25	30.47	Sft						
			Walls											
			Counter	2.00	1.13	10.00	22.50	Sft						
				1.00	8.83	1.50	13.25	Sft						
			Sides	2.00	1.13	10.00	22.50	Sft						
				2.00	0.50	11.50	11.50	Sft						
							Total =	157.73	Sft	157.73	Sft	1	1,193.45	188,239.88
18	10	48	Extra for Beveling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.											
			nosing											
			Counter	1	2.00	7.17	=	14.34	Rft					
			Steps	2	4.00	3.00	=	24.00	Rft					
				1	5.00	x	6.00	=	30.00	Rft				
							Total =	68.34	Rft	68.34	Rft	1	27.90	1,906.69
			<b>SURFACE RENDERING</b>											
19	11	8.b	Cement Plaster 1;3 upto 20' height 1/2" Thick (in side )											
			Court yard	1.00	58.42	12.00	=	701.04	Sft					
			Shop	1.00	44.58	12.00	=	534.96	Sft					
			Kitchen	1.00	37.50	12.00	=	450.00	Sft					
			Storage	1.00	29.50	12.00	=	354.00	Sft					
			Toilet	1.00	22.42	8.00	=	179.36	Sft					
			Toilet	1.00	31.85	8.00	=	254.80	Sft					
			Less door	(1.00)	17.00	7.00	=	(119.00)	Sft					
			Door	(2.00)	3.50	7.00	=	(49.00)	Sft					
			Door	(5.00)	3.00	7.00	=	(105.00)	Sft					
			Door	(2.00)	2.50	7.00	=	(35.00)	Sft					
			W-3	(1.00)	4.00	3.50	=	(14.00)	Sft					
			W-4	(1.00)	2.00	2.00	=	(4.00)	Sft					
			Less wall tiles			(410.39)	=	(410.39)	Sft					
							Net Total =	1,737.77	Sft	1,737.77	Sft	100	3,635.05	63,168.81
20	11	10b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height											
			Ceiling Interior											
			Roof toilet area	1.00	74.50			74.50						
			Roof Kitchen area	1.00	104.58			104.58						
			Roof Storage area	1.00	149.96			149.96						
			Uper portion	8.00	6.00	4.25	=	204.00	Sft					
			Less vents	(8.00)	5.00	1.50	=	(60.00)	Sft					
			Uper roof	1.00	174.77	1.02		178.27	Sft					
			Ceiling Exterior											

21	11	32	Lower Roof	1.00	830.73		830.73							
			Less structure	(1.00)	588.01		(588.01)							
			Uper Roof	1.00	331.37		331.37							
				(1.00)	212.08		(212.08)							
			Net Total =					1,013.32	Sft	1,013.32	Sft	100	3,960.25	40,129.82
			Providing grooved cement sand plaster 1:3 over existing plastered and roughened surface upto 20' (6.00 m) height.											
			ii) ½" (13 mm) thick											
			Sft											
			Exterior	1.00	93.07	10.00	930.70	Sft						
			Less door	(1.00)	17.00	7.00	(119.00)	Sft						
22	11	23	Counter	(1.00)	8.83	10.00	(88.30)	Sft						
			D-3	(1.00)	3.00	7.00	(21.00)	Sft						
			D-4	(2.00)	2.25	7.00	(31.50)	Sft						
			W-3	(1.00)	4.00	3.50	(14.00)	Sft						
			W-4	(1.00)	2.00	2.00	(4.00)	Sft						
			Net Total =					652.90	Sft	652.90	Sft	100	4,004.65	26,146.36
			Distempering:-											
			a) new surface:-											
			Same as interior plaster											
			= 1,737.77 Sft											
23	13	33	Ceiling											
			Roof toilet area	1.00	74.50		74.50							
			Roof Kitchen area	1.00	104.58		104.58							
			Roof Storage area	1.00	149.96		149.96							
			Roof walls											
			Uper portion	8.00	6.00	4.25	204.00	Sft						
			Less vents	(8.00)	5.00	1.50	(60.00)	Sft						
			Uper roof	1.00	174.77	1.02	178.27	Sft						
			- Sft											
			3 Coats					Net Total =	2,389.08	Sft	2,389.08	Sft	100	1,446.35
24	12	16	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:											
			a) new surface:											
			Same as plaster out side											
			652.90 Sft											
			Uper portion walls	1.00	53.00	2.00	106.00	Sft						
			Less vents	(8.00)	5.00	1.50	(60.00)	Sft						
			Uper roof soffit	1.00	331.37		331.37	Sft						
			Less structure	(1.00)	212.08		(212.08)	Sft						
			Lower roof soffit	1.00	830.73		830.73	Sft						
			Less structure	(1.00)	588.01		(588.01)	Sft						
- Sft														
Net Total =					1,060.91	Sft	1,060.91	Sft	100	3,651.00	38,733.75			
2nd coat														
1,060.91 Sft														
3rd coat														
1,060.91 Sft														
Providing and fixing M.S. sheet hollow pressed frame of doors, windows, C. windows, etc. (chowkat only) of 20 SWG welded with M.S. flat 6"x 1¼" x 1/8" (150 mmx30mmx3mm) M.S. holdfast 9"x1"x1/8" (225mmx25mmx3mm) welded/screwed 4" (100 mm) long iron hinges, including filling chowkat with cement sand mortar 1:8 and embedding holdfast in cement concrete 1:2:4, complete in all respects:														
a) single rebate														
D-1	1	1.00	4.00	7.00	28.00	Sft								
D-2	1	1.00	3.50	7.00	24.50	Sft								
D-3	1	2.00	3.00	7.00	42.00	Sft								
D-4	1	2.00	2.50	7.00	35.00	Sft								



25	12	52	<div>129.50 Sft</div> <div>P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.</div> <div> <div>D-11.004.007.0028.00 Sft</div> <div>D-21.003.507.0024.50 Sft</div> <div>D-312.003.007.0042.00 Sft</div> <div>D-412.002.507.0035.00 Sft</div> <div>129.50 Sft</div> </div>	129.50	Sft	1	402.05	52,065.48
26	25	52	<div> <div>W-12.007.207.00 = 100.80 Sft</div> <div>W-31.004.003.50 = 14.00 Sft</div> <div>W-42.002.002.00 = 8.00 Sft</div> <div>8.005.131.50 = 61.50 Sft</div> <div>Total = 184.30 Sft</div> </div> <div>Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge</div>	129.50	Sft	1	795.70	103,043.15
27	9	50	<div> <div>Upper roof</div> <div>11.00331.171.02 Slope = 337.79 Sft</div> <div>Lower Roof</div> <div>11.00830.731.05 Slope = 872.26 Sft</div> <div>Less structure-11.00588.01(588.01)</div> <div>Total = 622.05 Sft</div> </div> <div> <b>ROOF</b>            Providing and laying high density single profile spanish glazed tapered barrel type of 4"- 5-1/2" dia Terra Cotta Khaprail Tile dipped or sealed with a water repellent, with Terra Cotta base plate ( 10"x16"), resistant to salt attack laid with laps and duly interlocked on slopping roof over 1/2" thick (1:3) cement sand mortar i/c cost of all material and labour complete in all respect as approved and directed by the Engineer Incharge.         </div>	184.30	Sft	1.00	1,336.55	246,326.17
28	12	16	<div>Providing and fixing moulded cornice as per drawing</div> <div> <div>Cornice at upper roof18.008.2866.25 Rft</div> <div>Cornice at lower roof18.0013.11104.92 Rft</div> <div>171.17 Rft</div> </div>	622.05	Sft	1	133.15	82,825.66
29	1	1	<div>Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.</div> <div> <div>Lead upto135.00from Margalla Hills quarry</div> <div>Pcc 1.4.8 :as per item No.3.00 = 289.76 x 0.95 = 274.61 Cft</div> <div>Pcc 1.2.4 :as per item No.2.00 = 362.55 x 0.88 = 319.05 Cft</div> <div>R.c.c 1.2.4 :as per item No.7.00 = 583.17 x 0.88 = 513.19 Cft</div> <div>R.c.c 1.2.4 :as per item No.8.00 = 1,029.12 x 0.88 = 905.63 Cft</div> <div>Total = 2,012.47 Cft</div> </div>	2,012.47	Cft	100	7,585.75	152,660.99
						<b>Total</b>		<b>5,067,039.34</b>
						<b>Say</b>		<b>5,067,000.00</b>

CONSTRUCTION OF KALA GUJRAN PARKS IN JHELMUM CITY																					
Estimate for Ladies Lounge																					
DISTRICTJHELMUM																					
Sr No	MRS		Ch.	Item	DESCRIPTION	Qty		Unit	Rate	Amount											
	1st.2023									Rs.											
	1	3				21.iii	Excavation in foundation of building, bridges and other structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Manual ii) in ordinary soil.														
					9" walls	1	x	1.00	x	46.33	x	2.50	x	3.50	=	405.39	Cft				
						1	x	2.00	x	10.13	x	2.50	x	3.50		177.19	Cft				
						1	x	1.00	x	5.00	x	2.50	x	3.50		43.75	Cft				
						1	x	1.00	x	4.00	x	2.50	x	3.50		35.00	Cft				
						1	x	1.00	x	24.67	x	2.50	x	3.50		215.86	Cft				
						1	x	1.00	x	12.50	x	2.50	x	3.50		109.38	Cft				
						1	x	1.00	x	10.00	x	2.50	x	3.50		87.50	Cft				
						1	x	1.00	x	8.00	x	2.50	x	3.50		70.00	Cft				
					4-1/2" walls	1	x	1.00	x	5.00	x	1.50	x	2.50		18.75	Cft				
						1	x	2.00	x	5.75	x	1.50	x	2.50		43.13	Cft				
						1	x	2.00	x	5.00	x	1.50	x	2.50		37.50	Cft				
						1	x	2.00	x	1.58	x	1.50	x	2.50		11.85	Cft				
						1		1.00		16.17	x	1.50	x	2.50		60.64	Cft				
						0.5		3.14		11.69		1.50		2.50		68.86	Cft				
						1		2.00		8.00		1.50	x	2.50		60.00	Cft				
					Columns	1		6.00		4.00		4.00		3.50		336.00	Cft				
					Total = 1,780.78 Cft												1,780.78	Cft	1000	13,046.90	23,234.00
2	6	5f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2:4																		
					Steps			1.00		6.00		2.00		0.50		6.00	Cft				
								1.00		6.00		1.00		0.50		3.00	Cft				
					Total = 9.00 Cft												9.00	Cft	100	37,614.70	3,385.32
3	6	5.i	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1:4:8)																		
					9" walls	1	x	1.00	x	46.33	x	2.50	x	0.50	=	57.91	Cft				
						1	x	2.00	x	10.13	x	2.50	x	0.50	=	25.31	Cft				
						1	x	1.00	x	5.00	x	2.50	x	0.50	=	6.25	Cft				
						1	x	1.00	x	4.00	x	2.50	x	0.50	=	5.00	Cft				
						1	x	1.00	x	24.67	x	2.50	x	0.50	=	30.84	Cft				
						1	x	1.00	x	12.50	x	2.50	x	0.50	=	15.63	Cft				
						1	x	1.00	x	10.00	x	2.50	x	0.50	=	12.50	Cft				
						1	x	1.00	x	8.00	x	2.50	x	0.50	=	10.00	Cft				
					Columns	1		6.00		4.00		4.00		0.50		48.00	Cft				
					4-1/2" walls	1	x	1.00	x	5.00	x	1.50	x	0.50	=	3.75	Cft				
						1	x	2.00	x	5.75	x	1.50	x	0.50	=	8.63	Cft				
						1	x	2.00	x	5.00	x	1.50	x	0.50	=	7.50	Cft				
						1	x	2.00	x	1.58	x	1.50	x	0.50	=	2.37	Cft				
						1	x	1.00	x	16.17	x	1.50	x	0.50	=	12.13	Cft				
						0.5	x	3.14	x	11.69	x	1.50	x	0.50	=	13.77	Cft				
						1	x	2.00	x	8.00	x	1.50	x	0.50	=	12.00	Cft				
					Total = 259.58 Cft												259.58	Cft	100	28,513.19	74,015.00
4	7	4	Pacca brick work in foundation and plinth in:-i) Cement, sand mortar:- Ratio 1:4) 1st step																		
					9" walls	1	x	1.00	x	46.33	x	1.50	x	0.50	=	34.75	Cft				
						1	x	2.00	x	10.13	x	1.50	x	0.50	=	15.19	Cft				
						1	x	1.00	x	5.00	x	1.50	x	0.50	=	3.75	Cft				

[illegible]



11	10	3	1	1.00	5.00	6.00	2.50	75.00	Cft	1,057.50	Cft	100	2,862.00	30,265.65			
			1	1.00	5.00	3.00	2.50	37.50	Cft								
			1	1.00	28.00	13.50	2.50	945.00	Cft								
			1	1.00	10.00	8.00	2.50	200.00	Cft								
			1	1.00	201.75	area	2.50	504.38	Cft								
			0.5	0.79	13.75	13.75	2.50	185.61	Cft								
			Total = 1,057.50 Cft														
			Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects														
			1	1.00	5.00	6.00	0.33	9.90	Cft								
			1	1.00	5.00	3.00	0.33	4.95	Cft								
			1	1.00	28.00	13.50	0.33	124.74	Cft								
			1	1.00	10.00	8.00	0.33	26.40	Cft								
1	1.00	201.75	area	2.50	504.38	Cft											
0.5	0.79	13.75	13.75	2.50	185.61	Cft											
Total = 139.59 Cft							139.59	Cft	100	10,256.50	14,317.05						
12	10	42	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge														
			a) Full body Glazed tiles														
			(ii) 600mmx 600 mm														
			1	1.00	5.00	6.00		30.00	Sft								
			1	1.00	5.00	3.00		15.00	Sft								
			1	1.00	28.00	13.50		378.00	Sft								
			1	1.00	10.00	8.00		80.00	Sft								
			1	1.00	201.75	area		201.75	Sft								
			0.5	0.79	11.75	11.75		54.22	Sft								
			Total = 423.00 Sft							423.00	Sft	1	360.40	152,449.20			
			13	10	43	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/dado of specified size, Color and Shade with adhesive/bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.											
						a) Full body Glazed tiles											
(ii) 600mmx 600 mm																	
Bath	2	1.00				x	5.00	+	6.00	x	7.00	154.00	Sft				
Less D-3	-1	1.00					2.50				7.00	(17.50)	Sft				
Less vents	-1	1.00					2.00				2.00	(4.00)	Sft				
Store	2	1.00				x	5.00	+	3.00	x	0.50	8.00	Sft				
Female lounge	2	1.00				x	28.00	+	13.50	x	0.50	41.50	Sft				
Food Shop	2	1.00				x	10.00	+	8.00	x	0.50	18.00	Sft				
Verandah	1	1.00				x	109.92	+	-	x	0.50	54.96	Sft				
Skirting	0.5	3.14				x	11.69	+	(23.38)	x	0.50	27.54	Sft				
D-1	-2	2.00					4.00				0.50	(8.00)	Sft				
D-2	-1	1.00		3.50				0.50	(1.75)	Sft							
D-3	-1	3.00		2.50				0.50	(3.75)	Sft							
Total = 269.00 Sft							269.00	Sft	1	360.40	96,949.03						
14	10	50	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge														
			ii) 3/4" thick (12"x24"/12"x36")														
			Steps	3.00	6.00	1.00		18.00	Sft								
			Total = 18.00 Sft							18.00	Sft	1	1,508.45	27,152.10			
15	10	50	Providing and laying Prepolished Granite of specified thickness and shade of full width of approved quality laid with adhesive bond over 3/4" thick (1:2) cement sand mortor bed , complete in all respect as approved and directed by the Engineer Incharge														
			ii) 1/2" thick														
				Steps	3.00	6.00		1.50	27.00	Sft							

16	10	48	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.							Total	=	27.00	Sft	27.00	Sft	1	1,193.45	32,223.15
			Steps nosing															
			Male side	3.00	6.00					18.00	Rft							
									Total	=	18.00	Rft	18.00	Rft	1	27.90	502.20	
<b>SURFACE RENDERING</b>																		
17	11	8.b	Cement Plaster 1;3 upto 20' height 1/2" Thick (in side )															
			Inside	1	2.00	5.00	+	6.00	9.00	=	198.00	Sft						
				1	2.00	5.00	+	3.00	9.00	=	144.00	Sft						
				1	2.00	28.00	+	13.50	9.00	=	747.00	Sft						
				1	2.00	10.00	+	8.00	9.00	=	324.00	Sft						
			Face veranda	1	1.00	10.75			9.00	=	96.75	Sft						
				1	1.00	5.42			9.00	=	48.78	Sft						
				1	1.00	25.62			9.00	=	230.58	Sft						
				1	1.00	6.00			9.00	=	54.00	Sft						
			Toe wall inside	1	1.00	16.17			1.38	=	22.23	Sft						
				0.5	3.14	11.69			1.38	=	25.25	Sft						
				1	2.00	8.00			1.38	=	22.00	Sft						
			Less								-	Sft						
			D-1	-2	2.00	4.00			7.00		(112.00)	Sft						
			D-2	-1	1.00	3.50			7.00		(24.50)	Sft						
			D-3	-1	2.00	2.50			7.00		(35.00)	Sft						
			Vent	-1	1.00	2.00			2.00		(4.00)	Sft						
			Out side								-	Sft						
				1	1.00	46.00			9.00		414.00	Sft						
				1	1.00	11.25			9.00		101.25	Sft						
				1	1.00	6.50			9.00		58.50	Sft						
				1	1.00	10.75			9.00		96.75	Sft						
				1	1.00	9.50			9.00		85.50	Sft						
			Less vent	-1	1.00	2.00			2.00		(4.00)	Sft						
			D-2	-1	1.00	3.50			7.00		(24.50)	Sft						
			Parapet								-	Sft						
			Parapet Walls	2	1.00	52.29			2.75	=	287.60	Sft						
				2	1.00	46.07			2.75	=	253.36	Sft						
				1	3.14	13.69			2.75	=	118.27	Sft						
				2	1.00	11.75			2.75	=	64.63	Sft						
			Less tiles								(269.00)	Sft						
									Net Total	=	2,919.44	Sft	2,919.44	Sft	100	3,635.05	106,123.08	
18	11	10b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height															
			Ceiling soffit	1	1.00	5.00	6.00				30.00	Sft						
				1	1.00	5.00	3.00				15.00	Sft						
				1	1.00	28.00	13.50				378.00	Sft						
				1	1.00	10.00	8.00				80.00	Sft						
				1	1.00	201.75	area				201.75	Sft						
				0.5	0.79	13.75	13.75				74.24	Sft						
			Parapet soffit	1	1.00	52.29	2.00			=	104.58	Sft						
				1	1.00	46.07	2.00			=	92.13	Sft						
				0.5	3.14	13.69	2.00			=	43.01	Sft						
				1	1.00	11.75	2.00			=	23.50	Sft						
									Net Total	=	1,042.21	Sft	1,042.21	Sft	100	3,960.25	41,274.25	
19	11	23	Distempering:-															
			a) new surface:-															
			Inside	Same as inside plaster							=	1,737.09	Sft					
			Ceiling								=	778.99	Sft					
			3 Coats						Net Total	=	2,516.09	Sft	2,516.09	Sft	100	1,446.35	36,391.43	
20	13	33	Providing and applying weather shield paint of approved quality on external surface of building including preparation of surface, application of primer complete in all respect:															



CONSTRUCTION OF KALA GUJRAN PARKS IN JHELM CITY																
Estimate for Guard Room																
MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELM																
Sr No	MRS		DESCRIPTION	Qty		Unit	Rate	Amount								
	1st .2023							Rs.								
	Ch.	Item														
1	3	21.iii	Excavation in foundation of building, bridges and other structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)  a) By Manual ii) in ordinary soil.  9" walls            1    x    2.00    x            8.50    x            2.50    x            3.50    =            148.75    Cft 													



7	6	6	1	2.00	5.00	1.13	0.13	=	1.41	Cft	156.09	Cft	100	34,857.00	54,409.60					
			1	2.00	0.75	0.75	0.13	=	0.14	Cft										
			1	2.00	8.50	1.50	0.25	=	6.38	Cft										
			1	2.00	5.00	1.50	0.25	=	3.75	Cft										
			1	2.00	0.75	0.75	0.25	=	0.28	Cft										
			Deductions																	
			D-1	-1	1.00	2.25	0.75	7.00	=	(11.81)						Cft				
			W-1	-1	1.00	3.00	0.75	3.00	=	(6.75)						Cft				
			Lintles																	
			D-1	-1	2.00	3.75	0.75	0.75	=	(4.22)						Cft				
D-2	-1	1.00	4.50	0.75	0.75	=	(2.53)	Cft												
Net Total										=	156.09	Cft	156.09	Cft	100	34,857.00	54,409.60			
Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-																				
(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-																				
(3) Type C (nominal mix 1: 2: 4)																				
Columns Base	1	1.00	2.00	2.00	0.75	=	3.00	Cft	3.00	Cft	1	456.95						1,370.85		
Total																			=	3.00
8	6	12.c	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-																	
			(3) Type C (nominal mix 1: 2: 4)																	
			Slab	1	x	1.00	x	8.50	x	6.50	x	0.50						=	27.63	Cft
			Column	1	1.00	0.75	0.75	9.00	=	5.06	Cft									
			Lintles																	
			D-1	1	2.00	3.75	0.75	0.75	=	4.22	Cft									
			D-2	1	1.00	4.50	0.75	0.75	=	2.53	Cft									
			Total										=	39.44	Cft	39.44	Cft	1	566.35	22,335.43
			Fabrication of mild steel reinforcement for cement concrete,including cutting, bending, laying in position,making joints and fastenings,including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-																	
			9	6	12.c	('c) Deformed bars (Grade-60														
Qty:as per item No.	7.00	=				3.00	x	6.75	/	2.20	=	9.19	Kg	129.97	Kg.	100	31,945.90	41,519.98		
8.00	=	39.44				x	6.75	/	2.20	=	120.78	Kg								
Total										=	129.97	Kg								
10	7	30				FLOOR														
						Supplying and filling sand under floor; or plugging in wells.														
						1	1.00	7.00	5.00	0.50	17.50	Cft	17.50	Cft	100	2,862.00	500.85			
						Total												=	17.50	Cft
						11	10	3	Providing, laying, watering and ramming brick ballast 1½" to 2"(40 mm to 50 mm) gauge mixed with 25% sand, for floor foundation, complete in all respects											
			1	1.00	7.00				5.00	0.33	11.55	Cft	11.55	Cft	100	10,256.50	1,184.63			
			Total															=	11.55	Cft
			12	10	42				Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge											
									a) Full body Glazed tiles											
									(ii) 600mmx 600 mm											

				1	1.00		7.00		5.00			35.00	Sft						

55



**DETAILED DESIGN OF INFRASTRUCTURE SUB - PROJECTS SECTOR**  
**CONSTRUCTION OF KALA GUJRAN PARKS IN JHELUM CITY**

**Rate Analysis for providing and laying Pea Gravel**

**MRS, 1st BI-ANNUAL - 2023 ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELUM**

Description	Unit Rate (British System) per 100 Cft		
	Qty	Rate per Unit	Amount (Rs)
<b>Material</b>			
Harrow sand @ Rs. 7800/100 cft	100	78.00	7,800.00
20% bulking marging		0.20	1,560.00
<b>Total</b>			9,360.00
<b>Labour</b>			
Coolies un-skilled	3 - Nos.	1050	3,150.00
<b>Total</b>			3,150.00
<b>Total labour + material</b>			<b>12,510.00</b>
20% Contractor's O.H. & Profit	Rs.	0.20	<b>2,502.00</b>
Total for 100 Cft			<b>15,012.00</b>
Composite rate per 100 Cft			<b>15,012.00</b>
<b>Composite rate per Cft</b>	<b>Rs.</b>	<b>150.12</b>	<b>150.12</b>

DETAILED DESIGN OF INFRASTRUCTURE SUB - PROJECTS SECTOR							
PLANNING & RESIDENT SUPERVISION IN 16 CITIES OF PUNJAB							
CONSTRUCTION OF KALA GUJRAN PARKS IN JHELMUM CITY							
RATE ANALYSIS - SWEET SOIL							
District :	Jhelum	UNIT = 1 Cft					
City :	Jhelum				Lead :	3.00	K
S.NO	MRS		ITEM DESCRIPTION	UNIT	RATE	AMOUNT	REMARK
	CHAP.	SR.NO					
1	3	6	<b>A) <u>SUPPLY OF GOOD EARTH / SWEET SOIL</u></b> Supply of good earth (MRS = 770 per 100 cft) <b>SUB - TOTAL (A)</b>	1000 Cft	7.7	7,700.00 <b>7,700.00</b>	
2	3	18 - a	<b>B) <u>DRESSING &amp; LEVELLING</u></b> Dressing and levelling of earth work to desing section a) Ashes, sand, silt or soft soil <b>SUB - TOTAL (B)</b>	1000 Cft	356.95	356.95 <b>356.95</b>	
2	3	17	<b>C) <u>LEAD 3 KM</u></b> Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m) a) upto ¼ mile (400 m). b) for every 330 ft. (100 m) additional lead or part thereof,beyond ¼ mile (400 m) upto one mile (1.6 Km) $\frac{1600-400}{330} = 1200 \div 100 = 12 \quad 36.9 = 442.2$ c) for every ¼ mile (400 m) additional lead or part thereof,beyond one mile (1.6 Km) upto 5 miles (8 Km) $\frac{3000-400}{330} = 1400 \div 400 = 3.50 \quad 324 = 1,132.25$ $1,574.45$ <b>SUB - TOTAL (B)</b> <b>TOTAL (A+B+C)</b> <b>COMPOSITE RATE FOR 1000 CFT</b> <b>COMPOSITE RATE PER CFT</b>	1000 Cft	4,472.30  1,574.45	4,472.30  1,574.45 <b>6,046.75</b> <b>14,103.70</b> <b>14,103.70</b> <b>14.10</b>	

DETAILED DESIGN OF INFRASTRUCTURE SUB - PROJECTS SECTOR							
PLANNING & RESIDENT SUPERVISION IN 16 CITIES OF PUNJAB							
SUB PROJECT - SECTOR ROAD							
RATE ANALYSIS - Regular Earth / Soil							
District :	Jhelum	UNIT = 1 Cft					
City :	Jhelum					Lead :	3.00
S.NO	MRS		ITEM DESCRIPTION	UNIT	RATE	AMOUNT	REMARK
	CHAP.	SR.NO					
1	3	6	<b>A) <u>REGULAR EXCAVATION DRESSED.</u></b> Regular excation dressed.  <b>SUB - TOTAL (A)</b>	1000 Cft	5726.7	5,726.70 <b>5,726.70</b>	
2	3	17	<b>B) <u>DISPOSAL UPTO 3 KM</u></b> Transportation of earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m) a) upto ¼ mile (400 m). b) for every 330 ft. (100 m) additional lead or part thereof,beyond ¼ mile (400 m) upto one mile (1.6 Km) $\frac{1600-400}{330} = \frac{1200}{330} \div 100 = 12 \quad 36.9 = 442.2$ c) for every ¼ mile (400 m) additional lead or part thereof,beyond one mile (1.6 Km) upto 5 miles (8 Km) $\frac{3000-1600}{400} = \frac{1400}{400} \div 400 = 3.50 \quad 324 = 1,132.25$ $\frac{1,574.45}{1000} = 1.57445$ <b>SUB - TOTAL (B)</b> <b>TOTAL (A+B)</b> <b>COMPOSITE RATE FOR 1000 CFT</b> <b>COMPOSITE RATE PER CFT</b>	1000 Cft	4,472.30	4,472.30   	



ESTABLISHMENT OF 200 BEDDED MOTHER AND CHILD HOSPITAL, DISTRICT BAHAWALNAGAR							
EXTERNAL PUBLIC HEALTH WORK							
ENGINEER'S COST ESTIMATE							
1.6 - UNDER GROUND WATER TANK							
Sr. No.	1st Bi-Annual, 2023	Description	Qty.	Unit	Unit	Unit Rate (Rs.)	Amount (Rs.)
1	A 3/42 Page - 32	<b><u>SCHEDULE ITEMS</u></b>					
		<b>EXCAVATION UGWT</b>					
		Earthwork excavation in open cutting for sewers and manholes including dressing to correct section and dimensions according to templates and levels and removing surface water in all type of soil except shingle, gravel and rock.					
		i) 0 to 7 ft depth					
		Under Ground Water Tank 1 29.66 23.66 7.00 4,912.29 Cft					
		Valve Chamber 1 12.34 6.17 5.74 437.03 Cft					
		Plinth Protection Wall 1 104.00 1.50 2.33 363.48 Cft					
		5,712.80 Cft	5,712.80	1,000.00	Cft	12,836.55	73,332.65
		ii) 7 to 15 ft. depth					
		Under Ground Water Tank 1 29.66 23.66 2.75 1,929.83 Cft					
2	6/2 Page - 41	<b>BRICK OR STONE BALLAST</b>					
		Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge.					
		Under Ground Water Tank 1 29.66 23.66 0.50 350.88 Cft					
		350.88 Cft	350.88	100.00	Cft	9,900.00	34,736.90
3	6/5 Page - 41	<b>PLAIN CEMENT CONCRETE</b>					
		Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):					
		(i) P.C.C 1:4:8					
		UGWT 1 29.66 23.66 0.33 231.58 Cft					
		Valve Chamber 1 12.34 7.67 0.33 31.23 Cft					
		Plinth Protection Wall 1 104.00 1.50 0.33 51.48 Cft					
		Plinth Protection Floor 1 104.00 2.25 0.33 77.22 Cft					
		391.51 Cft	391.51	100.00	Cft	28,513.90	111,635.66
		(f) P.C.C 1:2:4					
		Under Valve 2 3.33 3.00 1.00 19.98 Cft					
4	6/6/a/(ii)2 Page - 42	<b>REINFORCED CEMENT CONCRETE</b>					
		(a) (ii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and other structural members other than those mentioned in 5(a)					
		(i) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-					
		(2) Type B (nominal mix 1: 1.5: 3)					
		Bottom Slab 1 29.00 23.00 1.50 1,000.50 Cft					
		Valve Chamber 1 11.68 7.67 0.67 60.02 Cft					
		Chamfer 2 0.50 24.00 0.50 0.50 6.00 Cft					
		2 0.50 18.00 0.50 0.50 4.50 Cft					
		Pump Foundation 2.00 3.00 0.33 1.00 1.98 Cft					
		1,073.00 Cft	1,073.00	1.00	Cft	512.25	549,645.45
5	6/6/a/(i)2 Page - 42	(a) (i) Reinforced cement concrete in roof slab, beams columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects, Type B (nominal mix 1: 1½: 3),					
		<b>UGWT</b>					
		Long Walls 2 26.00 1.00 7.67 398.84 Cft					
		Short Walls 2 18.00 1.00 7.67 276.12 Cft					
		Valve Chamber -					
		Long Walls 1 10.34 0.67 4.75 32.91 Cft					
		Short Walls 2 6.00 0.66 4.75 37.62 Cft					
		Tank Top Slab. 1 26.00 20.00 0.50 260.00 Cft					

ESTABLISHMENT OF 200 BEDDED MOTHER AND CHILD HOSPITAL, DISTRICT BAHAWALNAGAR													
EXTERNAL PUBLIC HEALTH WORK													
ENGINEER'S COST ESTIMATE													
1.6 - UNDER GROUND WATER TANK													
Sr. No.	1st Bi-Annual, 2023	Description						Qty.	Unit	Unit	Unit Rate (Rs.)	Amount (Rs.)	
6	1/1 Page-3	Valve Chamber Top Slab.	1	10.34	6.67	0.50	34.48	Cft					
		Columns	2	1.50	1.00	10.00	30.00	Cft					
		Chamfer	4	1	0.50	0.50	8.17	4.09	Cft				
							1,074.06	Cft	1,074.06	1.00	Cft	621.65	667,686.88
		<b>CRUSH CARRIAGE</b>											
	6 - 9 (c) Page - 44	Carriage of 100 cft. (2.83 cu.m) of all material like stone, aggregate, spawl, kankar lime (unslaked), surkhi, etc.											
		Ratio (1:2:4)		19.98	0.88		17.58	Cft			Cft		
		Ratio (1:4:8)		391.51	0.95		371.03	Cft			Cft		
		Ratio (1:1-1/2:3)		2,147.06	0.84		1,803.53	Cft			Cft		
							2,192.15	Cft	2,192.15		Cft	7,585.75	166,290.67
7	11/8 (b) Page - 74	<b>FABRICATION OF REINFORCING STEEL</b>											
		Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars): ('c) Deformed bars (Grade-60)											
		Total Concrete Qty		2,147.06	Cft								
		@		4.50	Kgs/Cft		9,661.76	Kg					
							9,661.76	Kg	9,661.76	100.00	Kg	31,945.90	3,086,536.94
		<b>WALL PLASTER</b>											
		Cement plaster 1:3 upto 20' (6.00 m) height, ½" (13 mm) thick.											
		Walls Out sides	2	26.00		8.17	424.84	Sft					
			2	20.00		8.17	326.80	Sft					
		Valve Chamber	2	6.67		5.50	73.37	Sft					
8	11/10 (b) Page - 74	Inner	2	24.00		7.67	368.16	Sft					
			2	18.00		7.67	276.12	Sft					
		Valve Chamber	2	6.00		4.75	57.00	Sft					
			1	9.00		4.75	42.75	Sft					
							1,569.04	Sft	1,569.04	100.00	Sft	3,635.05	57,035.39
		<b>SLAB PLASTER</b>											
		Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height, Ratio 1:3											
		Under Soffit	1	24.00	18.00		432.00	Sft					
		Valve Chamber Slab	1	9.00	6.00		54.00	Sft					
							486.00	Sft	486.00	100.00	Sft	3,960.25	19,246.82
9	21/13 Page-130	<b>MILED STEEL RUNGS</b>											
		Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step(Rungs), in manhole chambers, Manholes & House Services Connection Chambers, including carriage and setting the same in work to correct lines and levels.											
			2	7.00			14.00	No.					
10	19 - 40 (iii) Page - 121						14.00	No.	14.00	1.00	No.	610.75	8,550.50
		<b>CAST IRON MANHOLE COVER</b>											
		Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia											
11	9-46								2.00	1.00	No	2,426.30	4,852.60
		<b>BITUMEN COATING</b>											
		Providing and applying torch-on plain waterproofing bitumenous membrane of specified thickness (made of Roof-Grip/ Euro Bit) duly lapped/connected by heating with Torch over ps-6 primer i/c preparation/smoothen the surface complete in all respect as approved and directed by the Engineer Incharge											
		ii) 4 mm thick											
		Base	1	29.00	23.00		667.00	Sft					

ESTABLISHMENT OF 200 BEDDED MOTHER AND CHILD HOSPITAL, DISTRICT BAHAWALNAGAR														
EXTERNAL PUBLIC HEALTH WORK														
ENGINEER'S COST ESTIMATE														
1.6 - UNDER GROUND WATER TANK														
Sr. No.	1st Bi-Annual, 2023	Description						Qty.	Unit	Unit	Unit Rate (Rs.)	Amount (Rs.)		
12	26/37/ii Page - 176	1	12.34	7.67	94.65	Sft								
		External Sides												
		2	26.00		11.17	580.84	Sft							
		2	20.00		11.17	446.80	Sft							
		Valve Chamber												
13	10/22/a Page - 70	2	6.67		6.42	85.64	Sft							
								1,874.93	Sft	1,874.93	1.00	Sft	119.75	224,522.94
		<b>POLYTHEEN SHEET</b>												
		Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc. ii) 500 gauge (.005" thick)												
								1,874.93	1.00	Sft	8.65	16,218.15		
14	10/37/a/ii Page - 72	<b>MOSAIC FLOORING</b>												
		1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble for panelling, as powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-												
		Flooring												
		1	24.00	18.00	432.00	Sft								
								432.00	Sft	432.00	100.00	No.	21,588.10	93,260.59
15	6/31 Page - 47	<b>DADO SKIRTING</b>												
		Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing, using grey cement, ½" (13 mm) thick												
		2	24.00		7.67	368.16	Sft							
		2	18.00		7.67	276.12	Sft							
		2	6.00		5.00	60.00	Sft							
16	7/4/i Page - 53	2	9.00		5.00	90.00	Sft							
								794.28	Sft	794.28	100.00	No.	23,264.50	184,785.27
		<b>WATER STOPPER</b>												
		Providing embedding 10" (250 mm) wide ¼" (6 mm) thick rubber water stopper in expansion joints of R.C.C. roof slab complete in all respects.												
		Horizontal												
17	7/30 Page 58	2	25.00			50.00	Rft							
		2	19.00			38.00	Rft							
		2	6.67			13.34	Rft							
		2	9.67			19.34	Rft							
		Vert						120.68	Sft	120.68	1.00	Rft	310.20	37,434.94
18	10/41/b Page 72	<b>BRICK WORK IN FOUNDATION</b>												
		Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:4												
		Plinth Protection Wall												
		2	29.00	0.75	2.00	87.00	Cft							
		2	23.00	0.75	2.00	69.00	Cft							
19	10/41/b Page 72	2	6.67	0.75	2.00	20.01	Cft							
								176.01	Cft	176.01	100.00	Cft	32,454.60	57,123.34
		<b>SAND FILLING</b>												
		Supplying and filling sand under floor; or plugging in wells.												
		2	29.00	3.00	0.33	57.42	Cft							
20	10/41/b Page 72	2	23.00	3.00	0.33	45.54	Cft							
		2	6.67	3.00	0.33	13.21	Cft							
								116.17	Cft	116.17	100.00	Cft	2,982.00	3,464.09
		<b>TUFF PAVERS</b>												
		Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured) b) 60-mm thick												
21	10/41/b Page 72	2	29.00	3.00		174.00	Sft							
		2	23.00	3.00		138.00	Sft							

ESTABLISHMENT OF 200 BEDDED MOTHER AND CHILD HOSPITAL, DISTRICT BAHAWALNAGAR												
EXTERNAL PUBLIC HEALTH WORK												
ENGINEER'S COST ESTIMATE												
1.6 - UNDER GROUND WATER TANK												
Sr. No.	1st Bi-Annual, 2023	Description					Qty.	Unit	Unit	Unit Rate (Rs.)	Amount (Rs.)	
19	25 - 10 & 11 Page - 168	2                      6.67                      3.00                      40.02 Sft										
		352.02 Sft					352.02	1.00	No.	157.40	55,407.95	
		<b>FABRICATION OF HEAVY STEEL WORK</b>										
		Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing.( including erection in position extra).										
		Girder Flenge                      2                      20.00                      1.50                      0.03                      1.97										
		Girder Web                      1                      20.00                      1.50                      0.05                      1.48										
		Total Cft										

<b>DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECT CONSTRUCTION OF NEW PARKS IN JHELUM CITY ABSTRACT OF COST - ELECTRICAL NETWORK KALA GUJRAN PARK JHELUM</b>		
<b>Sr. No.</b>	<b>Description</b>	<b>Amount</b>
1	Kala Gujran Park Electrical Works	8,787,770
2	Kala Gujran Park External Lighting Civil Works	-
<b>TOTAL</b>		<b>8,787,770</b>

ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS KALA GUJRAN PARK JHELMUM EXTERNAL LIGHTING						
Sr. No.	MRS Ref. No.	Description	Unit	Qty	Rate	Amount
					(Rs.)	(Rs.)
(Schedule items based on MRS, 1st -Bi-Annual 2023 period District Jhelum)						
SUB HEAD 1: POLES & ACCESSORIES						
1	NS	Supply & installation of 12 m high octagonal (hot dip) galvanized steel pole with circular ring type top 6 Nos. luminaire arrangement, base plate, J-rag bolts, etc.	Each	3	168,000.00	504,000
2	NS	Supplying, installation testing, and commissioning of a <b>10-meter 4-arm</b> Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel, tapered from 225 mm at the bottom to 100 mm at the top, with 1000 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 400x400x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet, with built-in junction box with shutter,i/c the cost of nuts & J-rag bolts, duly fixed in pre-laid the concrete foundation, the foundation will be paid additionally as approved and directed by the Engineer Incharge.	Each	6	87,600.00	525,600
3	24/68/a/i	Supplying, installation testing, and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel ,tappered from 225 mm at bottom to 100 mm at the top, with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet, with built-in junction box with shutter,i/c the cost of nuts & J-rag bolts, duly fixed in pre laid concrete foundation, the foundation will be paid additionally as approved and directed by the Engineer Incharge. <b>Single Arm 10-meter</b>	Each	3	116,325.95	348,978
4	NS	Supply & Installtion of 6-Foot high post top decorative pole, along with luminaire, base plate, foundation, J-rag bolts and earthing etc.	Each	15	26,400.00	396,000
5	24/86/a/ii	Supply, installation, testing, and commissioning of MCB for Pole connection plate for luminaire for switching.  <b>6 Amp (6 KA)</b>	Each	39	1,184.45	46,193.55
SUB HEAD 2: LUMINAIRES						
6	NS	Supply & Installation of LED Luminaries Floodlights of (Make Philips), (Make Thorn) (Make GE) or approved equivalent fully IP 65 with corrosion-resistant die-cast aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection and all accessories/ components required for the proper operation of the system. The luminaries shall be fully flexible for future upgrades and easy replacements for maintenance purposes. The contractor is to submit lighting design calculations to determine the adequacy of the wattage and should adjust the number of LEDs/wattage as per project lighting requirements.				
		<b>200 Watts</b>	Each	12	108,240.00	1,298,880
7	24/69/a/v	Supplying, installation and commissioning of LED Cobra-head Luminaries of specified wattage and lumens conforming to IP66 & IK08 or above Philips / Osram / Thorn or equivalent with corrosion resistant die casted Aluminum housing, silicon gas ketin special groove,UV stable & scratch resistant synthetic materials, thermally hardened glass complete with LED Chip (Philips Lumiled / Cree / Nichia / Osrammake or equivalent ) , programmable LED driver ( Harvard / TCI / Lumotech / Philips / VOSSLOH Schwabe /Lightech make or equivalent ), minimum 10 kV surge protection rating i/cthe cost of all accessories / components required for properoperation ,fully flexible forfuture upgradation and easy replacements for maintenance purposes ,bucket elevator charges as approved and directed by the Engineer Incharge. a) 140 Lm/Watt. (v) 120 Watt with 16800 Lumens	Each	27	60,061.10	1,621,650
SUB HEAD 3: POWER CABLES & CONDUITS						
8	24/13/c/vi	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I . wire/trenches, etc. (rate forcable only):- c)PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:- <b>vi) 10 mm (7/0.052")</b>	Rft	1700	525.75	893,512
9	24/13/a/iii	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I wire/trenches, etc. (rate for cable only):- a) PVC insulated, PVC sheathed twin-core, 250/440 volts. <b>iii) 7/0.74 mm (7/0.029")</b>	Rft	3119	93.90	292,827
10	24/13/c/viii	Supply and erection of copper conductor cables for service connecti on, in prelaidd pipe/G.I . wire/trenches, etc. (rate forcable only):- c)PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:- viii) 25 mm (19/0.052")	Rft	480	1,301.65	624,792.00
11	24/7/iii	Supply and erection of PVC pipe for surface wiring (main and sub-main) including clamps, inspection boxes, pull boxes bends etc., complete with all specials:- iii) 100 mm i/d	Rft	2,999	285.05	854,751
SUB HEAD 4: LIGHTING CONTROL PANEL						
12	24/90/a/i	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessdded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge <b>a) 6" Deep</b> i) 20~60A	P.Cft	7.5	19,686.70	147,650
Incomming						

ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS KALA GUJRAN PARK JHELMUM EXTERNAL LIGHTING						
Sr. No.	MRS Ref. No.	Description	Unit	Qty	Rate	Amount
					(Rs.)	(Rs.)
(Schedule items based on MRS, 1st -Bi-Annual 2023 period District Jhelum)						
13	24/87/a/i	Supplying ,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB SWITZERLAND (with fixed Thermal-Magnetic Trip ) in pre-laid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. <b>a) Tripple Pole</b> (i) 63 Amp (7.5 KA)	Each	2	12,036.95	24,074
14	24/94/xv/b	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Charge. <b>(xv) Magnetic Contactor</b> (b) 40 A (AC 3)	Each	2	21,756.95	43,514
15	24/94/viii	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge <b>(viii) Control MCB S/P 6A</b> (Make: Schneider/ Terasaki/ABB)	Each	2	1,266.95	2,534
16	24/94/x	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge <b>(x) Auto/Manual Switch 3-Steps</b> (Make: GGT/Camsco)	Each	2	1,956.95	3,914
17	24/94/vi	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge <b>(vi) Push Button ON/OFF</b> (Make: Schneider/Himal/Eqv.)	Each	2	480.80	962
18	NS	Photo Electric Switch Type (10 Amp)	Each	2	13,200.00	26,400
Outgoing						
19	24/86	Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in pre-laid DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge.	Each			
19a	24/86/c/ii	<b>Tripple Pole</b> 20 Amp (6 KA) [4+2(spare)]	Each	6	7,236.95	43,422
19b	24/86/b/ii	<b>Double Pole</b> 40 Amp (6 KA) [2]	Each	2	3,614.45	7,229
SUB HEAD 5: MAIN DB-KALA GUJRAN PARK						
20	24/90/a/ii	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge <b>a) 6" Deep</b> (ii) 75~100A	P.Cft	5	14,499.95	72,500
Incomming						
21	24/87/a/iv	Supplying, Installation, and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A /SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB/SWITZERLAND (with fixed Thermal-Magnetic Trip ) in pre-laid DBs and Panels i/c the cost of screws, necessary wire complete In all respect as approved and directed by the Engineer Charge. <b>Tripple Pole</b> 125 Amp (18 KA)	Each	1	25,356.95	25,357
Outgoing						
22	24/87	Supplying, Installation, and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A /SCHNEIDER GERMANY / TERASAKI JAPAN/SIEMEN/ABB/SWITZERLAND (with fixed Thermal-Magnetic Trip ) in pre-laid DBs and Panels i/c the cost of screws, necessary wire complete In all respect as approved and directed by the Engineer Charge.				
22a	a/ii	<b>Tripple Pole (Lighting Control Panel)</b> 100 Amp (10 KA)	Each	2	12,276.95	24,554
22b	a/ii	<b>Tripple Pole (Cafeteria)</b> 63 Amp (10 KA)	Each	1	12,276.95	12,277
22c	a/ii	<b>Tripple Pole (Bathroom)</b> 20 Amp (10 KA)	Each	1	12,276.95	12,277
22d	a/i	<b>Tripple Pole (Badminton+Spare)</b> 63 Amp (7.5 KA) [1+1]	Each	2	12,036.95	24,074
SUB HEAD 6: EARTHING						
23	24/70	Earthing of iron-clad/aluminum switches, etc. with G.I. wire No.8 SWG in G.I. pipe 15 mm (½") dia, recessed or on the surface of wall and floor, complete with 1.5 meters long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 meter below ground level, and 2 meters away from building plinth.	Job	30	10,198.95	305,969
TOTAL (Rs.)						6,363,117
TOTAL (Rs.) Million PKR						6.363



ENGINEERING COST ESTIMATE (ELECTRICAL WORKS) RATE ANALYSIS OF NON- SCHEDULE ITEMS OF ELECTRICAL WORKS KALA GUJRAN PARK JHELUM EXTERNAL LIGHTING									
BOQ Item#	DESCRIPTION	Qty	Unit	Unit Price PKR	Cost PKR	Contractor Profit	Amount	Total Cost /unit PKR	Total Cost PKR
		<b>q</b>		<b>a</b>	<b>b</b>	<b>c</b>	<b>d = a x c</b>	<b>e = a + d</b>	<b>f = q x e</b>
1	12meter Ring Type Pole	3	No.	140,000	420,000	20%	28,000.00	168,000	504,000
2	10meter 4-Arm pole	6	No.	73,000	438,000	20%	14,600.00	87,600	525,600
4	6 Feet Light Post	15	No.	22,000	330,000	20%	4,400.00	26,400	396,000
6	200 watt Flood Light	12	No.	90,200	1,082,400	20%	18,040.00	108,240	1,298,880
18	Photoelectric Switch	2	No.	11,000	22,000	20%	2,200.00	13,200	26,400

ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS KALA GUJRAN PARK JHELMUM BATHROOM						
Sr. No.	MRS Ref. No.	Description	Unit	Qty	Rate	Amount
					(Rs.)	(Rs.)
(Schedule items based on MRS, 1st -Bi-Annual 2023 period District Jhelum)						
1	CH-24/3 iii)	Supply and erection of PVC pipe for wiring recessed in walls, floors, roofs including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. Make Beta, Dadex or equivalent				
		i) 25 mm	P.Rft	272	101.60	27,605
2	CH-24/11 i), iii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaidd PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only):- Make Pakistan Cables, Newage Cables and Allied Cables or equivalent				
		i) 3/0.029"	P.Rft	314	27.10	8,509
		iii) 7/0.029"	P.Rft	180	43.30	7,794
3	CH-24-14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") 38.1 deep, with 4.75 mm thick (3/16") Bakelite sheet top, for to recessed wiring, including making holes for regulators, 38.7 switches, plugs, etc. 17.5 x 10 cm (7"x4")	No.	3	409.85	1,230
4	CH-24/103-A ii)	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer, screws complete as approved and directed by the Engineer Incharge One way 5 Gange Switch (Large) Make: Clipsal or Legrand or equivalent.	No.	3	1,026.00	3,078
5	CH-24/102-A ii)	Providing and fixing Copper winded Exhaust fan with louver and shutter make Pak Fans, Royal Fans, G.F.C Fans or equivalent. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge Plastic Body 12" Sweep	No.	4	3,380.85	13,523
6	NS	Supply, installation, connecting, testing commissioning of 10 W LED Down Light Fixturesuitable (Imported)for 1100 lux, as per instruction of Engineer,surface mounted circular shape or equivalent or as perdirection of the Consultant/ Engineer Make: Philips, G.E, Thorn, Osram or equivalent	No.	8	11,940.00	95,520
7	NS	Supply, installation, connecting, testing commissioning of 5W LED Down Light Fixturesuitable (Imported)for 1100 lux, as per instruction of Engineer,surface mounted circular shape or equivalent or as perdirection of the Consultant/ Engineer Make: Philips, G.E, Thorn, Osram or equivalent	No.	16	11,160.00	178,560
8	NS	Supply, installation, connecting, testing commissioning of Vanity Light of 8W Fixturesuitable for 800lm, as per instruction of Engineer, tube (double ended) shape complete in all respect, Make: Philips, G.E, Thorn or equivalent as per the direction of the Consultant/ Engineer	No.	2	2,400.00	4,800
TOTAL (Rs.)						340,619
TOTAL (Rs.) Million PKR						0.341

**ENGINEERING COST ESTIMATE (ELECTRICAL WORKS)**  
**RATE ANALYSIS OF NON- SCHEDULE ITEMS OF ELECTRICAL WORKS**  
**KALA GUJRAN PARK JHELMUM**  
**BATHROOM**

BOQ Item#	DESCRIPTION	Qty	Unit	Unit Price PKR	Cost PKR	Contractor Profit	Amount	Total Cost /unit PKR	Total Cost PKR
		<b>q</b>		<b>a</b>	<b>b</b>	<b>c</b>	<b>d = a x c</b>	<b>e = a + d</b>	<b>f = q x e</b>
6	10 W LED Downlight	8	No.	9,950	79,600	<b>20%</b>	1,990.00	11,940	95,520
7	5 W LED Downlight	16	No.	9,300	148,800	<b>20%</b>	1,860.00	11,160	178,560
8	Vanity Light	2	No.	2,000	4,000	<b>20%</b>	400.00	2,400	4,800

**ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS  
KALA GUJRAN PARK JHELMUM  
CAFETERIA**

Sr. No.	MRS Ref. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
(Schedule items based on MRS, 1st -Bi-Annual 2023 period District Jhelum)						
1	CH-24/3 i)	Supply and erection of PVC pipe for wiring recessed in walls, floors, roofs including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. Make Beta, Dadex or equivalent				
		i) 25 mm	P.Rft	1639	101.60	166,522
2	CH-24/11 i), iii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaidd PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only):- Make Pakistan Cables, Newage Cables and Allied Cables or equivalent				
		i) 3/0.029"	P.Rft	1160	27.10	31,436
		iii) 7/0.029"	P.Rft	1100	43.30	47,630
3	CH-24/13 c), iv)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:- iv) 4 mm (7/0.036")	P.Rft	360	241.35	86,886
4	CH-24-14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") 38.1 deep, with 4.75 mm thick (3/16") Bakelite sheet top, for to recessed wiring, including making holes for regulators, 38.7 switches, plugs, etc. 17.5 x 10 cm (7"x4")	No.	16	409.85	6,558
5	CH-24/49	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook, placed at the time of casting of slab.	No.	3	75.00	225
6	CH-24/30	Supply and erection of ceiling rose, Bakelite.	No.	3	75.10	225
7	CH-24/81	Supply and fitting of regulator knob with shaft and plat of electric fan regulator.	No.	3	237.90	714
8	CH-24/103-A viii)	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches/sockets/dimmer made of Hi -Life/Bush/Schenider, screws complete as approved and directed by the Engineer Incharge (a) One way Gange Switch Small (viii) Three Pin Power Plug 15-32 Amp	No.	10	818.40	8,184
9	CH-24/103-A ii)	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer, screws complete as approved and directed by the Engineer Incharge One way 5 Gange Switch (Large) Make: Clipsal or Legrand or equivalent.	No.	7	1,026.00	7,182
10	CH-24/102-A ii)	Providing and fixing Copper winded Exhaust fan with louver and shutter make Pak Fans, Royal Fans, G.F.C Fans or equivalent. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge Plastic Body 12" Sweep	No.	2	3,380.85	6,762
11	CH-24/90-A i)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately) (a) 6" deep i) 20~60A (18"x24"x6")	P.Cft	1.5	19,686.70	29,530
	CH-24/88-A i)	<b>Incoming</b> Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip ) in prelaidd DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%)  <u>16Amps (25KA)</u>	No.	1	28,956.95	28,957
	CH-24/21/i	Supply and erection of bus bars, for 500 volts 3 phase A.C. supply with four copper bars, including glazed porcelain bridges, on angle iron board, fixed with rag bolts and M.S. sheet box 1.5 mm thick, etc. complete:- <u>i)60 Amp. with 4 copper bars</u> <u>size 1½"x1/8" (40 x 3 mm)</u>	No.	1	5,364.10	5,364

**ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS  
KALA GUJRAN PARK JHELMUM  
CAFETERIA**

Sr. No.	MRS Ref. No.	Description	Unit	Qty	Rate	Amount
					(Rs.)	(Rs.)
(Schedule items based on MRS, 1st -Bi-Annual 2023 period District Jhelum)						
	CH-24/86-A ii)	<u>Outgoing</u> Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.  <u>MCB SP 6A 6KA (1 No. Spare)</u>	No.	9	1,184.45	10,660
	CH-24/86-A ii)	MCB SP 10A 6KA (1 No. Spare)	No.	2	1,184.45	2,369
12	24/70	Earthing of iron-clad/aluminum switches, etc. with G.I. wire No.8 SWG in G.I. pipe 15 mm (½") dia, recessed or on the surface of wall and floor, complete with 1.5 meters long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 meter below ground level, and 2 meters away from building plinth.	Job	1	10,198.95	10,199
13	CH-24/85	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary Make: Asia, Royal, Pak, GFC Fan or equivalent	No.	3	505.70	1,517
14	NS	Supply, installation and commissioning of ceiling fan 56" Sweep complete with capacitor, hanging rod, canopy blades, of approved quality, nuts, bolts, from recommended manufacturer, complete in all respects.	No.	3	8,394.00	25,182
15	NS	Supply, installation and commissioning of bracket fan 18" Sweep complete with accessories , 1475 Rpm or equivalent, of approved quality, nuts, bolts, from recommended manufacturer, complete in all respects.	No.	1	7,200.00	7,200
16	NS	Supply, installation, connecting, testing commissioning of 10 W LED Down Light Fixturesuitable (Imported)for 1100 lux, as per instruction of Engineer,surface mounted circular shape or equivalent or as per direction of the Consultant/ Engineer Make: Philips, G.E, Thorn, Osram or equivalent	No.	27	11,940.00	322,380
17	NS	Supply, installation, connecting, testing commissioning of 5W LED Down Light Fixturesuitable (Imported)for 1100 lux, as per instruction of Engineer,surface mounted circular shape or equivalent or as per direction of the Consultant/ Engineer Make: Philips, G.E, Thorn, Osram or equivalent	No.	19	11,160.00	212,040
18	NS	Supply, installation, connecting, testing commissioning of Vanity Light of 8W Fixturesuitable for 800lm, as per instruction of Engineer, tube (double ended) shape complete in all respect, Make: Philips, G.E, Thorn or equivalent as per the direction of the Consultant/ Engineer	No.	2	2,400.00	4,800
TOTAL (Rs.)						1,022,522
TOTAL (Rs.) Million PKR						1.023

ENGINEERING COST ESTIMATE (ELECTRICAL WORKS) RATE ANALYSIS OF NON- SCHEDULE ITEMS OF ELECTRICAL WORKS KALA GUJRAN PARK JHELUM CAFETERIA									
BOQ Item#	DESCRIPTION	Qty	Unit	Unit Price PKR	Cost PKR	Contractor Profit	Amount	Total Cost /unit PKR	Total Cost PKR
		<b>q</b>		<b>a</b>	<b>b</b>	<b>c</b>	<b>d = a x c</b>	<b>e = a + d</b>	<b>f = q x e</b>
14	Ceiling Fan 56" Sweep	3	No.	6,995	20,985	<b>20%</b>	1,399.00	8,394	25,182
15	Bracket Fan	1	No.	6,000	6,000	<b>20%</b>	1,200.00	7,200	7,200
16	10 W LED Downlight	27	No.	9,950	268,650	<b>20%</b>	1,990.00	11,940	322,380
17	5 W LED Downlight	19	No.	9,300	176,700	<b>20%</b>	1,860.00	11,160	212,040
18	Vanity Light	2	No.	2,000	4,000	<b>20%</b>	400.00	2,400	4,800

**ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS  
KALA GUJRAN PARK JHELUM  
BADMINTON COURT**

Sr. No.	MRS Ref. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
(Schedule items based on MRS, 1st -Bi-Annual 2023 period District Jhelum)						
1	CH-24/3 i)	Supply and erection of PVC pipe for wiring recessed in walls, floors, roofs including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials. Make Beta, Dadex or equivalent				
		i) 25 mm	P.Rft	849	101.60	86,279
2	CH-24/11 i), iii)	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 250/440 volts grade cable (BSS-2004), in prelaidd PVC pipes/M.S. conduit/G.I. pipe/wooden strip batten/wooden casing and capping/trenches, etc. (rate for cable only):- Make Pakistan Cables, Newage Cables and Allied Cables or equivalent				
		i) 3/0.029"	P.Rft	1632	27.10	44,227
		iii) 7/0.029"	P.Rft	221	43.30	9,561
3	CH-24/13 c), iv)	Supply and erection of copper conductor cables for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only):- c) PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:- iv) 4 mm (7/0.036")	P.Rft	748	241.35	180,530
4	CH-24-14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") 38.1 deep, with 4.75 mm thick (3/16") Bakelite sheet top, for to recessed wiring, including making holes for regulators, 38.7 switches, plugs, etc. 17.5 x 10 cm (7"x4")	No.	7	409.85	2,869
5	CH-24/49	Supply and erection of 3/8" (10 mm) dia M.S. bar fan hook, placed at the time of casting of slab.	No.	6	75.00	450
6	CH-24/30	Supply and erection of ceiling rose, Bakelite.	No.	6	75.10	451
7	CH-24/81	Supply and fitting of regulator knob with shaft and plat of electric fan regulator.	No.	6	237.90	1,427
8	CH-24/103-A viii)	P/F PVC double layer Switch kit Face plate with specified switch holes i/c the cost of switches/sockets/dimmer made of Hi -Life/Bush/Schenider, screws complete as approved and directed by the Engineer Incharge (a) One way Gange Switch Small (viii) Three Pin Power Plug 15-32 Amp	No.	3	818.40	2,455
9	CH-24/103-A ii)	P/F PVC double layer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer, screws complete as approved and directed by the Engineer Incharge One way 5 Gange Switch (Large) Make: Clipsal or Legrand or equivalent.	No.	3	1,026.00	3,078
10	CH-24/102-A ii)	Providing and fixing Copper winded Exhaust fan with louver and shutter make Pak Fans, Royal Fans, G.F.C Fans or equivalent. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge Plastic Body 12" Sweep	No.	5	3,380.85	16,904
11	CH-24/90-A i)	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately) (a) 6" deep i) 20~60A (18"x24"x6")	P.Cft	1.5	19,686.70	29,530
	CH-24/88-A i)	<b>Incoming</b> Supplying,Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip ) in prelaidd DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge. a) Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%) <u>63Amps (25KA)</u>	No.	1	28,956.95	28,957
	CH-24/21/i	Supply and erection of bus bars, for 500 volts 3 phase A.C. supply with four copper bars, including glazed porcelain bridges, on angle iron board, fixed with rag bolts and M.S. sheet box 1.5 mm thick, etc. complete:- <u>i)60 Amp. with 4 copper bars</u> <u>size 1½"x1/8" (40 x 3 mm)</u>	No.	1	5,364.10	5,364

**ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS  
KALA GUJRAN PARK JHELMUM  
BADMINTON COURT**

Sr. No.	MRS Ref. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
(Schedule items based on MRS, 1st -Bi-Annual 2023 period District Jhelum)						
	CH-24/86-A ii)	<b>Outgoing</b> Suppling,Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	CH-24/86-A ii)	MCB SP 10A 6KA (4+1 spare)	No.	5	1,184.45	5,922
	CH-24/86-A ii)	MCB SP 16A 6KA (4+1 No. Spare)	No.	5	1,184.45	5,922
12	24/70	Earthing of iron-clad/aluminum switches, etc. with G.I. wire No.8 SWG in G.I. pipe 15 mm (½") dia, recessed or on the surface of wall and floor, complete with 1.5 meters long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 meter below ground level, and 2 meters away from building plinth.	Job	1	10,198.95	10,199
13	CH-24/85	Erection of ceiling fan alongwith regulator (all sizes), including carriage from local Railway Station/Store to site of work, electric wire/cable for suspension rod and board connection, and cutting, threading on the rod, where necessary Make: Asia, Royal, Pak, GFC Fan or equivalent	No.	6	505.70	3,034
14	NS	Supply, installation and commissioning of ceiling fan 56" Sweep complete with capacitor, hanging rod, canopy blades, of approved quality, nuts, bolts, from recommended manufacturer, complete in all respects.	No.	6	8,394.00	50,364
15	24/43/i	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete. i) double rod (80 watts) with two chokes and 2 starters.	No.	42	2,579.25	108,329
16	NS	Supply, installation, connecting, testing commissioning of 10 W LED Down Light Fixturesuitable (Imported)for 1100 lux, as per instruction of Engineer,surface mounted circular shape or equivalent or as per direction of the Consultant/ Engineer Make: Philips, G.E, Thorn, Osram or equivalent	No.	39	11,940.00	465,660
<b>TOTAL (Rs.)</b>						<b>1,061,512</b>
<b>TOTAL (Rs.) Million PKR</b>						<b>1.062</b>



ENGINEERING COST ESTIMATE (ELECTRICAL WORKS)  
 RATE ANALYSIS OF NON- SCHEDULE ITEMS OF ELECTRICAL WORKS  
 KALA GUJRAN PARK JHELUM  
 CAFETERIA

BOQ Item#	DESCRIPTION	Qty	Unit	Unit Price PKR	Cost PKR	Contractor Profit	Amount	Total Cost /unit PKR	Total Cost PKR
		q		a	b	c	d = a x c	e = a + d	f = q x e
14	Ceiling Fan 56" Sweep	3	No.	6,995	20,985	20%	1,399.00	8,394	25,182
16	10 W LED Downlight	27	No.	9,950	268,650	20%	1,990.00	11,940	322,380

<b>DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECT CONSTRUCTION OF NEW PARKS IN JHELUM CITY ABSTRACT OF COST PLUMBING WORKS KALA GUJRAN PARK JHELUM</b>		
<b>Sr. No.</b>	<b>Description</b>	<b>Amount</b>
<b>ABSTRACT OF COST WATER SUPPLY &amp; SEWERAGE NETWORK KALA GUJRAN PARK JHELUM</b>		
1	Kala Gujran Park Water Supply Works	5,392,839
2	Kala Gujran Park Sewerage Works	1,459,836
<b>TOTAL</b>		<b>Rs 6,852,675.00</b>



PUNJAB CITIES PROGRAM (PCP)								
Detail Design of Infrastructure Sub - Projects Sectoral Planning & Resident Supevision in 16 Cities of Punjab								
Parks at Jhelum City								
Kala Gujran Park								
Engineer's Cost Estimate for Water Supply Works								
MRS, 1st BI-ANNUAL-2023 (01.01.2023 to 30.06.2023) DISTRICT JEHLUM								
Item No.	MRS		Description	Unit		Qty	Rate (Rs.)	Amount (Rs.)
	chp	Item	Water Supply Network (Cafeteria,male & female Toilet, female lounge)					
1	3	44	Excavation of trenches in all kinds of soil, for water supply pipe lines up to 5 ft (1.5m) depth from ground level, including trimming, dressing sides leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	Cft	1000	77,472.00	8,321.30	644,668
2	7	30	Supplying and filling sand under floor; or plugging in wells.(in trenches under pipes)	Cft	100	51,131.52	2,862.00	1,463,384
3	23	47	Supplying, laying, jointing, testing and disinfection of pipe including pipe's fittings and accessories, of approved manufacturer complete in all respects as per drawings and specifications. a) PN-16 pipe					
			(iv) (1-1/4") 40 mm	Rft		62.00	130.15	8,069
			(iii)(1") 32 mm	Rft		45.00	94.40	4,248
			(ii)(3/4") 25 mm	Rft		175.00	58.60	10,255
4	23	37	Providing, laying, cutting, jointing, testing and disinfecting Cost of sockets, tees, elbows, G.I. pipe line in trenches, with flanged joints, using G.I. bends, valves, crosses, unions and pipe of B.S.S. 1387-1967 complete in all respects, plugs, etc. is included in the rates. including specials and valves:- ii) C.I. flanged joints (Medium Quality)					
			c) 2½" i/d (65 mm)	Rft		715.00	1,000.00	715,000

## PUNJAB CITIES PROGRAM (PCP)

**Detail Design of Infrastructure Sub - Projects Sectoral Planning & Resident Supervision in 16 Cities of Punjab**

**Parks at Jhelum City**

**Kala Gujran Park**

**Engineer's Cost Estimate for Water Supply Works**

**MRS, 1st BI-ANNUAL-2023 (01.01.2023 to 30.06.2023) DISTRICT JEHLUM**

Item No.	MRS		Description	Unit		Qty	Rate (Rs.)	Amount (Rs.)
5	23	43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/ Popular/ IIL or equivalent, in trenches, as approved & directed by the engineer incharge, complete in all respects.	Rft				
			b) PN-8 (SDR-21) 7) 90 mm	Rft		1,791.00	197.30	353,364
			b) PN-8 (SDR-21) 5) 63 mm	Rft		7,178.00	98.60	707,751
6	23	31	Providing and installing sluice (gate) valve of B.S 3464 quality as per drawing (including cost of jointing material).					
			a) 3" i/d (75 mm)	Each		20.00	18,204.95	364,099
7	Rate Analysis Attached		Providing and construction of inspection chambers for gate valves as per drawing complete in all respects.	Each		12.00	22,216.92	266,603
8	Rate Analysis Attached		Providing and construction of Valve chambers for gate valves as per drawing complete in all respects.	Each		20.00	31,222.38	624,448
9	Market Rate		Pump Water Fountain	Each		1.00	55,000.00	55,000
10	19	51	Providing and hoisting vertical/ horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double ply polyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials& labour complete in all respect as approved and directed by the Engineer Incharge.	Per Gallon	3 tanks of 500 Gallon	1500.00	117.30	175,950
TOTAL Pkr								5,392,838.93

## PUNJAB CITIES PROGRAM (PCP)

**Detail Design of Infrastructure Sub - Projects Sectoral Planning & Resident Supervision in 16 Cities of Punjab**

### PARK AT JHELUM CITY

**Kala Gujran Park**

**Engineer's Cost Estimate for Sewerage Works**

**MRS, 1st BI-ANNUAL-2023 (01.01.2023 to 30.06.2023) DISTRICT JEHLUM**

Item No.	MRS 01-2023		Description	Unit		Qty	Rate (Rs.)	Amount (Rs.)
	Ch	Item	<b>Sewerage Network (Cafeteria, male &amp; female Toilet, female lounge)</b>					
1	3	42	Earthwork excavation in open cutting for sewers and manholes including dressing to correct section and dimensions according to templates and levels, and removing surface water, in all types of soil except shingle, gravel and rock:					
			a) 0' to 7.0' (0 to 2.10m) depth	Cft	1000	5,000.00	12,836.55	64,182.75
2	3	13	Rehandling of earthwork: b) Upto a lead of 50 ft. (15 m).	Cft	1000	4,000.00	3,880.80	15,523.20
3	23	27	Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with 'B' Class working pressure pipe, in trenches, complete in all respects:-					
			d) 6" i/d (150 mm)	Rft	1	587.00	768.85	451,314.95
			b) 4" i/d (100 mm)	Rft		13.00	402.70	5,235.10
4	21	1	Providing and laying R.C.C. pipe sewers, moulded with cement concrete 1:1½:3 conforming to ASTM Specification C-76-79, Class II. Wall B, including carriage of pipe from factory to site of work, lowering in trenches to correct alignment and grade, jointing with rubber ring cutting pipes where necessary, testing, etc., complete. <b>iii) 225 mm (9:) i/d</b>	Rft	1	25.00	553.85	13,846.25
5	<b>Analysis Attached</b>		Septic tank 12x4x4	Each		3.00	191,648.87	574,946.62
6	19	52	Providing and fixing CP bath Room Set made of Sonex/Master/Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge. <b>(ii) Lever Type Basin Mixer</b>	Each		8.00	6,563.40	52,507.20

## PUNJAB CITIES PROGRAM (PCP)

**Detail Design of Infrastructure Sub - Projects Sectoral Planning & Resident Supervision in 16 Cities of Punjab**

### PARK AT JHELM CITY

**Kala Gujran Park**

**Engineer's Cost Estimate for Sewerage Works**

**MRS, 1st BI-ANNUAL-2023 (01.01.2023 to 30.06.2023) DISTRICT JEHLUM**

Item No.	MRS 01-2023		Description	Unit		Qty	Rate (Rs.)	Amount (Rs.)
			(iii) Double Bib Cock	Each		7.00	1,763.40	12,343.80
			(v) Muslim shower	Each		7.00	2,243.40	15,703.80
			(vi) Waste Coupling	Each		6.00	623.40	3,740.40
			(vii) Bottle Trap	Each		6.00	1,343.40	8,060.40
7	19	4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. <b>i) white</b>	Each		2.00	2,461.80	4,923.60
8	19	49	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride ) Nikasi/ waste pipe Fittings make of Dadex /Popular/Beta or equivalent, conforming to code EN-1329 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge. <b>a) P-Trap</b> <b>(i) 4" dia</b>	Each		2.00	1,082.40	2,164.80
8	19	3	Providing and fitting one piece European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	Each		5.00	35,817.00	179,085.00
9	19	7	Providing and fitting glazed earthen ware wash hand basin /vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.  <b>iii) white, without pedestal</b>	Each		6.00	6,793.90	40,763.40
10	19	8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each		2.00	7,747.40	15,494.80
			<b>TOTAL</b>					<b>1,459,836.07</b>

Kala Gujran Park of Jhelum City												
RATE ANALYSIS FOR 4' Dia MAN HOLE												
MRS-1/2023			Description	Rate	Qty	Unit	Amount					
Sr. #	Chap	Item										
			4' Dia 4.88' Depth									
1	3	42-i	Earth work excavation for sewer and manholes chamber etc: in O/soil.									
			0-7' Depth	3.142	x	7.50	x	7.50	x	0.25	x	6.80 = 300.45
			Ch-3 item-42i					300.45 Cft @ Rs	12836.55		% 0Cft	
2	3	42-ii	7'-15 Depth	3.142	x	7.50	x	7.50	x	0.25	x	= 0.00
			Ch-3 item-42i					0.00 Cft @ Rs	18457.30		% 0Cft	
3	6	2	Dry rammed brick or stone ballast 1 ½ to 2" in F/P.	3.142	x	7.50	x	7.50	x	0.25	x	1.00 = 44.18
								44.18 Cft @ Rs	9900.00		%Cft	
4	6	3	Cement concrete brick or stone ballast 1½ " to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (d) Ratio 1:	3.142	x	6.50	x	6.50	x	0.25	x	0.67 = 22.24
								22.24 Cft @ Rs	22183.20		%Cft	
5	6	5f	P.C.C. i/c placing compacting finishing & curing complete etc: ratio 1:2:4	3.142	x	4.00	x	4.00	x	0.25	x	0.25 = 3.14
			Bed						2	Total	= 3.14	
			D/d pipe portion	3.142	x	0.00	x	0.00	x	0.25	x	4.00 = 0.00
										Net	= 3.14	
			Ch-6 item-5f					3.14 Cft @ Rs	37614.70		%Cft	
6	6	6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and									
		a-i	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid									
		3	(3) Type C (nominal mix 1: 2: 4)									
			Top slab	3.142	x	4.00	x	4.00	x	0.25	x	0.50 = 6.28
			Deduct Cover	3.142	x	2.00	x	2.00	x	0.25	x	0.50 = 1.57
										Net	= 4.71	
								4.71 Cft @ Rs	566.35		Cft	
7	6	12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making									
			(b) Deformed bars (Grade-40)									
			Item 6	4.71	Cft @			6 / 2.205	= 12.82681666		Kg	
								12.83 Cft @ Rs	31556.10		%Cft	
8	7	7i+10	Pacca brick work other than building (1:3) ratio with extra for circular masonry.									
			1st Step	1	x	3.142	x	4.75	x	0.75	x	1.63 = 18.25
			2nd Step	3.142	x	4.75	+	3.00	x	0.75	x	3.50 = 31.96
							2	Total	= 50.21		Cft.	
			Ch-7 item-7i + 10					50.21 Cft @ Rs	35060.90		% Cft	
		10	Extra for pacca brick work in steining of wells or any other circular masonry.					72.167813 Cft @ Rs	2,979.60		% Cft	
9	11	7b	Cement and plaster (1:2) ratio. 1/2" thick ( out side )									
			1st Step	1	x	3.142	x	5.50	x	1.63	=	28.17
			4th Step	3.142	x	5.50	+	3.75	x	3.50	=	50.86
							2	Total	= 79.03		Sft	
			Ch-11 item-7b					79.03 Sft @ Rs	4069.45		% Sft	
10	21	15a	Providing and fixing 3" (75 mm) thick R.C.C. manhole cover, 22" (550 mm) dia, with tee shaped C.I. frame of 20"									
			Ch-21 item-15A					1 No. @ Rs.	12467.05		Each	
11	21	9	Extra for making benching etc: complete.	3.142	x	4.00	x	4.00	x	0.25	=	12.57
			Ch-21 item-9					12.57 Sft @ Rs.	3118.30		% Sft	
12	21	13	P/F angle iron steps 1¼"x1¼" x 3/16" size.									
			Ch-21 item-13					5 No. @ Rs.	610.75		Each	
13	1	1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or									
			Item 5	1:2:4	=	3.14	Cft	0.88	=	2.76		
			6	1:2:4	=	4.71	Cft	0.88	=	4.15		
										6.91		
								6.91 Cft @ Rs	9254.62		% Cft	
				Total:-								59,943.78
				Say:-								59,944.00



Jhelum Parks Rate Analysis for Septic Tank 12' x 4' x 4'									
						Size	12.0 x	4.00	4.00
MRS, 1st BI-ANNUAL ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELUM									
Sr No	MRS		DESCRIPTION	Qty		Unit	Rate	Amount	
	1st.2023							Rs.	
	Ch.	Item							
1	3	21.ii	Excavation in foundation of building, bridges and other structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)  a) By Manual ii) in ordinary soil.  1 x 14.50 x 6.50 x 4.830 = 455.23 Cft Total = 455.23 Cft	455.23	Cft	1000	11,658.25	5,307.00	
2	6	5.i	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):  (i) Ratio 1:4:8 CC at Bed 1 x 14.50 x 6.50 x .33 = 31.10 Cft Total = 31.10 Cft	31.10	Cft	100	28,513.90	8,869.00	
3	7	4	Pacca brick work in foundation and plinth in:-i) Cement, sand mortar:- Ratio 1:4) 1 x 2 x 13.5 x 0.750 x 4.000 = 81.000 Cft 1 x 2 x 4.0 x 0.750 x 4.000 = 24.000 Cft 1 x 1 4.0 x 0.375 x 4.000 = 6.000 Cft Total = 111.000 Cft  Deduction of Pipe 2 x 0.786 x 0.500 x 0.50 x 0.750 = 0.295 Cft 1 x 1.000 x 2.500 x 0.38 x 0.500 = 0.469 Cft Net Total = 110.24 Cft	110.24	Cft	100	31,518.60	34,745.06	
4	11	8.b	Cement Plaster 1;3 upto 20' height 1/2" Thick (in side ) Inside 1 x 2.00 x 12.00 x 4.000 = 96.00 Sft 1 x 2.00 x 4.00 x 4.000 = 32.00 Sft 1 x 2.00 x 4.00 x 3.500 = 28.00 Sft Out side 1 x 2.00 x 13.50 x 4.000 = 108.00 Sft 1 x 2.00 x 5.50 x 4.000 = 44.00 Sft Total = 308.00 Sft 2 x 2 0.786 x 0.500 x 0.500 = 0.786 Sft Net Total = 307.21 Sft	307.21	Sft	100	3,635.05	11,167.40	
5	6	6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-  (a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-  (3) Type C (nominal mix 1: 2: 4) Floor 1 x 14.00 x 6.00 x 0.500 = 42.00 Cft Total = 42.00 Cft  (a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-  (3) Type C (nominal mix 1: 2: 4)	42.00	Cft	1	456.95	19,191.90	

6	6	12.b	Slab 1 x 13.5 x 5.50 x 0.500 = 37.13 Cft	37.13	Cft	1	566.35	21,025.74
			Openings 2 x 0.786 x 2.000 x 2.00 x 0.500 = -3.142 Cft					
			Total = 37.13 Cft					
			Fabrication of mild steel reinforcement for cement concrete,including cutting, bending, laying in position,making joints and fastenings,including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-					
			('c) Deformed bars (Grade-60					
			Qty:as per item No 5 = 42.00 x 6.750 / 2.204 = 128.63 Kg	242.33	Kg.	100	31,556.10	76,469.67
			5 = 37.13 x 6.750 / 2.204 = 113.70 Kg					
			Total = 242.33 Kg					
7			RPC Manhole Cover Manufactured with 100% Reinforced Plastic Composite Material, 650 mm dia with clear opening size 600 mm (24" dia) and RPC manhole frame having dia meter 790 mm (Complete) (Certified under ISO 9001-2015)					
			MRS input 7,000.00					
			Price					
			Installation 10% 700.00					
			Contractor's O.H. & Profit 20% 1,540.00					
			Total 9,240.00					
			Total = 1.00 No	1.00	No.	100	9,240.00	92.40
8	13	9	Bitumen coating to plastered or cement concrete surface:- i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m x 2 coats					
			As per external plaste					
			Out side 1 x 2.00 x 13.50 x 4.00 = 108.00 Sft	108.61	Sft	100	4,602.00	4,998.11
			x 2.00 x 5.50 x 4.00 = 0.00 Sft					
			Total = 109.00 Sft					
			2 x 1 0.786 x 0.50 x 0.500 = 0.393 Sft					
			Net Total = 108.61 Sft					
9	21	13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle 14.7 iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels					
			@ 12" c/c 2 x 4.00 = 1.00 No.	1.00	No.	1	610.75	610.75
10	1	1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.					
			Lead upto 135.0 Km from Margalla					
			Pcc 1.4.8 :as per item No. 2 = 31.103 x 0.948 = 29.48 Cft	99.11	Cft	100	9,254.62	9,171.84
			Pcc 1.2.4 :as per item No. 5 = 42.000 x 0.880 = 36.96 Cft					
			R.c.c 1.2.4 :as per item No. 5 = 37.125 x 0.880 = 32.67 Cft					
			Total = 99.11 Cft					
						Total		PKR 191,648.87
						Say		191,600.00

Jhelum Parks									
Rate Analysis for Inspection Chamber size 2'x2' For sluice valves									
Air Valve Chamber For					Size	2.0 x	2.00	3.50	
MRS, 1st BI-ANNUAL ( 01-01-2023 to 30-06-2023 ) DISTRICT JHELUM									
Sr No	MRS		DESCRIPTION	Qty		Unit	Rate	Amount	
	Ch.	Item						Rs.	
1	3	21.iii	Excavation in foundation of building, bridges and other structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Manual ii) in ordinary soil.  1 x 4.50 x 4.50 x 4.500 = 91.13 Cft Total = 91.13 Cft	91.13	Cft	1000	11,658.25	1,062.00	
2	6	2	Dry rammed brick or stone ballast, 1½" to 2"( 40 mm to 50 mm) gauge  1 x 4.50 x 4.50 x 0.330 = 6.68 Cft Total = 6.68 Cft	6.68	Cft	100	9,900.00	662.00	
3	6	5.i	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):  (i) Ratio 1:4:8) CC at Bed 1 x 4.00 x 4.00 x .5 = 8.00 Cft Total = 8.00 Cft	8.00	Cft	100	28,513.90	2,281.00	
4	7	4	Pacca brick work in foundation and plinth in:-i) Cement, sand mortar:- Ratio 1:5) 3rd.step 1 x 4 x 2.750 x 0.750 x 3.500 = 28.875 Cft Total = 28.875 Cft  Deduction of Pipe 2 x 3.142 x 0.075 x 0.08 x 0.750 = 0.007 Cft 4 Net Total = 28.87 Cft	28.87	Cft	100	31,518.60	9,098.91	
5	6	5.f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):  (f) Ratio 1: 2:4) Block 3 x 2.00 x 1.00 x 0.000 = 0.00 Cft Floor 1 x 3.50 x 3.50 x 0.000 = 0.00 Cft Total = 0.00 Cft	-	Cft	100	37,614.70	-	
6	11	9.b	Cement Plaster 1;4 upto 20' height 1/2" Thick (in side )  1 x 4.00 x 2.00 x 3.500 = 28.00 Sft Total = 28.00 Sft  2 x 3.142 x 0.075 x 0.075 x 4 = 0.009 Sft Net Total = 27.99 Sft	27.99	Sft	100	3,459.85	968.45	
7	6	6.(a) (i)	Providing and laying reinforced cement concrete(including prestressed, concrete), using coarse sand and screened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						



<p style="text-align: center;"><b>Jhelum Parks</b>  <b>Rate Analysis for valve Chamber size 3'x3' For Air valves</b></p>									
Air Valve Chamber					Size	3.0 x	3.00	2.50	
MRS, 1st BI-ANNUAL-2023 (01.01.2023 to 30.06.2023) DISTRICT JEHLUM									
Sr No	MRS		DESCRIPTION	Qty		Unit	Rate	Amount	
	1st .2023							Rs.	
	Ch.	Item							
1	3	21.iii	Excavation in foundation of building, bridges and other structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) a) By Manual ii) in ordinary soil.  <div style="text-align: right;"> 1 x 5.16 x 5.16 x 3.500 = 93.19 Cft  Total = 93.19 Cft </div>	93.19	Cft	1000	11,658.25	1,086.00	
2	6	5.i	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):  (i) Ratio 1:4:8 CC at Bed 1 x 5.16 x 5.16 x .5 = 13.31 Cft Total = 13.31 Cft	13.31	Cft	100	28,513.90	3,796.00	
3	7	4	Pacca brick work in foundation and plinth in:-i) Cement, sand mortar:- Ratio 1:5) 3rd.step 1 x 4 x 3.750 x 0.750 x 2.500 = 28.125 Cft Total = 28.125 Cft  Deduction of Pipe 2 x 3.142 x 0.075 x 0.08 x 0.750 = 0.007 Cft 4 Net Total = 28.12 Cft	28.12	Cft	100	31,518.60	8,862.52	
4	6	5.f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):  (f) Ratio 1: 2:4 Block 3 x 2.00 x 1.00 x 0.500 = 3.00 Cft Floor 1 x 4.50 x 4.50 x 0.000 = 0.00 Cft Total = 3.00 Cft	3.00	Cft	100	37,614.70	1,128.44	
5	11	9.b	Cement Plaster 1;4 upto 20' height 1/2" Thick (in side ) 1 x 4.00 x 3.00 x 2.500 = 30.00 Sft Total = 30.00 Sft 2 x 3.142 x 0.075 x 0.075 x 4 = 0.009 Sft Net Total = 29.99 Sft	29.99	Sft	100	3,459.85	1,037.65	
6	6	6.a.iii.c	Providing and laying reinforced cement concrete(including prestressed, concrete), using coarse sand and screened graded and washed aggregate, in required shape and design,including forms, moulds, shuttering, lifting, compacting,curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-(a) (i) Reinforced cement concrete in roof slab, beams,columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-  (3) Type C (nominal mix 1: 2: 4)						

7	6	12.b	Slab 1 x 4.50 x 4.50 x 0.50 = 10.13 Cft D/d M.H Cover 1 x 0.786 x 2.00 x 2.000 x 0.50 = 1.57 Cft Total = 8.55 Cft	8.55	Cft	1	566.35	4,844.32
			Fabrication of mild steel reinforcement for cement concrete,including cutting, bending, laying in position,making joints and fastenings,including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-  b) Deformed bars (Grade-40) Qty:as per item No 6 = 8.55 x 6.750 / 2.204 = 26.20 Kg Total = 26.20 Kg	26.20	Kg.	100	31,556.10	8,266.53
			Providing and fixing, 6" (150 mm) thick R.C.C. manhole cover with 3"x3"x¼" 75x75x6mm) angle iron frame, 22" (550 mm) i/d as per standard drawing STD/PD No. 7 of 1977, complete in all respects.  MRS input 7000 Price Installation 10% 700  Contractor's O.H. & Profit 20% 1540  Total 9240  Total = 1.00 No	1.00	1.0	100	9,240.00	92.40
9	1	1	<u>Ch. 01 Item No.1</u> Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.  Lead upto 135.0 Km from Margalla quarry Pcc 1.4.8 :as per item No. 2 = 13.313 x 0.948 = 12.62 Cft Pcc 1.2.4 :as per item No. 4 = 3.000 x 0.880 = 2.64 Cft R.c.c 1.2.4 :as per item No. 6 = 8.554 x 0.880 = 7.53 Cft Total = 22.78 Cft	22.78	Cft	100	9,254.62	2,108.53
						<b>Total</b>		<b>PKR 31,222.38</b>
						<b>Say</b>		<b>31,200.00</b>

District	Jhelum		Rate Analysis for Bajri						1st Biannual 2023	
City	Jhelum									
Quarry	Margalla Hills									
Lead	135	Km								
Sr.No	Mrs.		Description of Item	Unit		Rate	Amount	Remarks		
	Chap	Item								
1	1	1	A) <u>Extra for Carriage</u> Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor.							
			1st	Km	100	Cft	305.40	305.40		
			2nd	Km	100	Cft	145.65	145.65		
			3rd	Km	100	Cft	114.10	114.10		
			4th	Km	100	Cft	81.20	81.20		
			5th	Km	100	Cft	75.85	75.85		
			6th	Km	100	Cft	74.60	74.60		
			7th	Km	100	Cft	69.60	69.60		
			8th	Km	100	Cft	68.85	68.85		
			9th	Km	100	Cft	64.75	64.75		
			10th	Km	100	Cft	60.75	60.75		
			11th	Km to 135Km: 135 - 10 = 125 x 52.20	100	Cft	6,525.00	6,525.00		
			Sub - Total (A)					7,585.75		
			B) <u>Extra Carriage for 22 Cft Material</u>							
			= 7,585.75 x 0.22		100	Cft	1,668.87	1,668.87	3) The quantity of	
			Sub - Total (B)						crushed stone	
									aggregate for payment	
									of carriage shall	
			50 Cft						betaken as per actual	
			Total (A+B )						loose volume but not	
			For 100 Cft							
			For Per Cum							

PUNJAB CITIES PROGRAM OPERATION & MAINTENANCE COST KALA GUJRAN PARK DISTRICT JEHLUM ENGINEERING COST ESTIMATE										
Total Park Lights Load in Kw	Daily Operatiopn time (in hours)	Kwh per day	Electricity Cost per day @ 29/- unit rate	Kwh per year	Electricity Cost per Anum @ 29/- unit rate	Repair & Maintenance Cost @ 1%	Chokidar	Plumber	Salaries per year (Electrician & Inspector)	Total cost/ Anum
9.70	12	116.40	3,375.60	42,486.00	1,232,094.00	87,877.70	1,800,000.00	720,000.00	960,000	4,799,972
O & M COST BREAKDOWN										
Total Park Lights Load in kWh		Total Park Lights Load in Kw		9.70 Killowatt		9.70 Killowatt		Killowatt - hour		
Daily Operation Time	=	12 hrs	Killo watt hours / day	=	9.70 X 12	=	116.40	Killowatt - hour		
Electricity Cost per day @ 29/- unit rate	=	116.40 x 29	=	3,375.60	PKR					
Kwh per year	=	116.40X 365	=	42,486.00	Kwh					
Electricity Cost per Anum @ 29/- unit rate	=	42486 X 29	=	1,232,094.00	PKR					
Repair & Maintenance Cost @ 1% of Total Cost	=	1%	=	87,877.70	PKR					
Electrician + Inspector										
Salaries per year	=	35,000 x 12	45,000 x 12	=	960,000	PKR				
Electricity Cost per Anum + Repair & Maintenance Cost + Salaries per year										
Total O & M cost/ Anum	=	42486 + 87877.70 + 960,000	=						4,799,972	PKR
4.800 Millions										



The Mark of Leader  
**POPULAR<sup>®</sup>**  
**PIPES**



خواجہ

کونسل

2/9/22

6450/-

1 سرائے میں 56" GFC PVC

**POPULAR**

Pipes Group of Companies

SAMAD ELECTRIC TRADERS

02 SEP 2022

15-2C2, College Road, Township  
0300-344713

WRAS  
WATER RESOURCES AUTHORITY

PPRC & HDPE PIPES  
INTERNATIONALLY APPROVED



Serving  
of P  
Solut

**Ref No:** ACC/MMP/JLM/001

**Dated:** 12 January, 2023

Asad  
 Electrical Engineer  
 MM Pakistan  
 Islamabad

**Subject:** Construction of GAZEBO at Jhelum City(Quotation)

Sir,

With reference of discussion and as per Drawing/site requirement we are pleased to quote the following discounted prices for Construction of Gazebo at Jhelum City. Detail as follows.

S.No	Description	Unit	Rate (Rs)	Qty	Amount (Rs.)	Remarks
1	Construction, Fabrication, installation of Steel Structure and Other work as per Site/Drawing Complete in all respect	L.S	1,300,000	1.00	1,300,000.00	
	<b>Total Amount</b>				<b>1,300,000.00</b>	

Best regards  
 Al-Hozaifah Construction Company.



**Muhammad Jamil**





# HAROON NURSERY FARM



Specialist in Plant, Land Scaping,  
Lawn & Parks Designing

Civil & Govt. Contractor  
NTN: 2788918-1

Ref #: \_\_\_\_\_

Date: \_\_\_\_\_

Quotation of  
Kala Gujran Parks in Jehlem  
"Just Supply"

Br. #	Description	Qty.	Rate	Amount
1	Alstonia 18" height 8'	8	2200	17600
2	Phoenix Palm 18" height 8'	8	2000	16000
3	Gulmohar 18" height 8'	6	3500	21000
4	Jacarand 18" height 8'	8	3000	24000
5	Bismarkia 18" height 8'	5	2000	10000
6	Cone Topchri 18" height 8'	3	5500	16500
7	Cono Carpus 12" height 8'	20	180	3600
8	Plumbago 16" height 1-2'	10	150	1500
9	Star Jasmin 12"	45	250	11250
10	Jatropha 14" height 5'	33	250	8250
11	Bambusa Cono Carpus 14" height 8'	76	400	30400
12	Begunvilla 14" height 6'-8'	24	350	8400
13	Lagerstomia 18" height 6'-8'	27	2500	67500
				236000 Total

Head Office:

Office No. 1, 2nd Floor, Shaheen Chemist Plaza, Marrir Hassan, Rawalpindi Cantt. Ph: 051-4252579

Branch Office:

Main G.T Road, Near Chakwal Morr, Mandra, Rawalpindi. 0345-9735776





# HAROON NURSERY FARM



Specialist in Plant, Land Scaping,  
Lawn & Parks Designing

Civil & Govt. Contractor  
NTN: 2788918-1

Ref #:

Date: 21-03-23

## Quotation of Kala Gujran Parks in Jehlam

Sr. #	Description	Qty.	Unit	Rate	Amount
1	Excavation dressed and disposal of unsuitable material upto 3km	152465	Cft	15	2286975
2	Supply & Laying of Sweet Soil	152465	Cft	40	6098600
3	Turfing Slopes of Lawns with grass seeds including ploughing, laying and watering and maintenance for 15 days	152465	Sft	9	1372185
4	Supply of Sweet Soil	50	Bag	120	6000
5	Supply of Cow Manure	10000	Bag	200	2000000
6	Supply of Urea Fertilizer	70	Bag	4000	280000
7	Supply of DAP Fertilizer	50	Bag	14500	725000
8	Artificial Grass (20mm)	9000	Sft	270	2430000

Total 15198760

HAROON NURSERY FARM  
Office: 1st & 2nd Floor, Shaheen Chemist Plaza,  
Marrir Hassan, Rawalpindi Cantt.  
21-03-23

Head Office:

Office No. 1, 2nd Floor, Shaheen Chemist Plaza, Marrir Hassan, Rawalpindi Cantt. Ph: 051-4252579

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# HAROON NURSERY FARM



Specialist in Plant, Land Scaping,  
Lawn & Parks Designing

Civil & Govt. Contractor  
NTN: 2788918-1

Ref #: \_\_\_\_\_

Date: 21-03-23

Quotation of Gujran Kala Parks in Jehlum

Sr.#	Description	Qty.	Unit	Rate	Amount
1	Terminalia Tree 18" pot	10	No.	2200	22000
2	Yucca 18" pot	16	No.	2800	44800
3	Rain Tree 18" pot	41	No.	4500	184500
4	Foxtail Palm 18" pot	19	No.	3800	72200
5	Bird of Paradise 18" pot	20	No.	4000	80000
6	Kaner 14" pot	92	No.	250	23000
7	Alternanthera 10" pot	232	No.	60	13920
8	Hibiscus 14" pot	27	No.	250	6750

Total 447170

HAROON NURSERY FARM  
Office number 1, 2nd Floor, Shaheen Chemist Plaza  
Marrir Hassan, Rawalpindi Cantt.  
Dish

Head Office:

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# HAROON NURSERY FARM



Specialist in Plant, Land Scaping,  
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13	Lagerstomia 18" height 6'-8'	27	2500	67500
				236000 Total

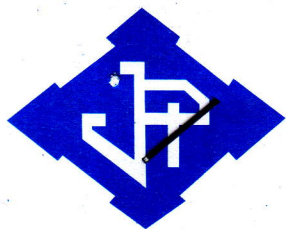
Head Office:

Office No. 1, 2nd Floor, Shaheen Chemist Plaza, Marrir Hassan, Rawalpindi Cantt. Ph: 051-4252579

Branch Office:

Main G.T Road, Near Chakwal Morr, Mandra, Rawalpindi. 0345-9735776





# JAMAL PIPE INDUSTRIES (PVT) LTD.

Manufacturers of M.S. & G.I. Steel Linepipes

M/S: MM Pakistan (Pvt.) Ltd.

Ref : JPI/ 686 /2022

Dated: 12 Oct, 2022

## SUBJECT: QUOTATION FOR THE SUPPLY OF LIGHTING POLES

Dear Sir,

We are pleased to quote our most competitive rates of your required Lighting Poles are as under:

<u>S.NO.</u>	<u>DESCRIPTION OF ITEMS</u>	<u>EX-WORKS RATE/POLE</u>
1.	<b>Four Arm</b> <b>10 Meter High Octagonal Pole</b> <b>Hot Dip Galvanized</b> <b>Specification:</b> Base Dia = 180mm Top Dia = 60mm Thickness = 4.00mm Shaft "L" = 9000mm Pole "H" = 10000mm Arm Dia = 60mm x 3.00mm Thk Arm "L" = 1000mm Base Plate = 400 x 400 x 20mm Thk	<b>Rs: 73,000/-</b>
2.	<b>Top Ring</b>	<b>Rs: 140,000/-</b>
3.	<b>12 Meter High Octagonal Pole</b> <b>Hot Dip Galvanized</b> <b>Specification:</b> Base Dia = 225mm Top Dia = 100mm Thickness = 4.50mm Shaft "L" = 11500mm Pole "H" = 12000mm Top Ring Dia = 36" x 2" (OD 60mm x 3.00mm & 1/2 x 3.0 Thk) Base Plate = 470 x 470 x 20mm Thk Stiffener = 100 x 350 x 20mm Thk	

Hoping to receive favorable response from your side

### Term & Conditions

1. The above rates are valid for 07 days
2. Inspection at our works Lahore (If Required)
3. Payment 100% advance

Thanking You

For JAMAL PIPE INDUSTRIES (PVT) LTD

TANVEER HUSSAIN

Mob: 0313-4013523



American  
Petroleum  
Institute

ISO 9001:2015  
Certified Company

5L-0435

HEAD OFFICE: 88-Railway Road, Lahore - 54000 Pakistan. UAN: 111-808-909 Fax: (042) 37650808

FACTORY: 12 K.M. G.T. Road, Shahdara, Lahore. Pakistan. Tel: 37960515-37960516 Fax: (042) 37964416

E-mail: jamalpipe@yahoo.com, info@jamalpipe.com.pk Website: jamalpipe.com.pk

# SHALIMAR SUBMERSIBLE PUMPS & FOUNTAINS

Submersible Pumps for clean Water, waste water, non clogging grinding pumps, garden Lights and submersible under water lights, high efficiency Rain guns

DATE: 25/10/2022

## QUOTATION

To Kind Attention:

M M PAKISTAN

SR	DETAILS	RATE	QTY	TOTAL
1	Submersible Pump 2 HP, 1 phase, 220v, 50hz, clean water pump, with 99.99 % copper winding, ss nutt bolt, carban steel shaft,	30,000	1	= 30,000/-
TOTAL AMOUNT				

### Note:

- 50 % advance payment , 50% before delivery.
- Warranty 1 year.
- Transportation cost customer responsibilities.
- This quotation without any taxes.

Best Regards,

Farrukh Mirza

C E O

Shop#2, Super Market Opp Govt Collage, 99-Railway Road Lahore tell: 042-37664627,36542404

Mobile # 0300-9459249 ,0322-8459249



## SHALIMAR SUBMERSIBLE PUMPS & FOUNTAINS

### SUBMERSIBLE PUMP 2 HORSE POWER (1 PH) (2850 RPM)

#### Performance Specification

<b>Type</b>	<b>Squirrel Cage Industrial Motor</b>
<b>Rated Voltage</b>	<b>220V , 1 PH , 50 Hz</b>
<b>Protection Class</b>	<b>IP 68</b>
<b>Electrical Connection</b>	<b>DOL</b>
<b>Finish Color</b>	<b>EPOXY PAINTED</b>
<b>Cable Size</b>	<b>70/76</b>
<b>Coupling Method</b>	<b>DIRECT</b>
<b>Insulation Class</b>	<b>F</b>
<b>Rated Output</b>	<b>2 HORSE POWER</b>
<b>Rated Current</b>	<b>10.5 A</b>
<b>No. Of Pole</b>	<b>2</b>
<b>Rated Speed</b>	<b>2850</b>
<b>Full Load Efficiency</b>	<b>70%</b>
<b>Bearing Type</b>	<b>BOLL Bearing</b>
<b>Motor Body</b>	<b>Cast Iron</b>
<b>Pump Data Sheet</b>	
<b>Execution</b>	
<b>Pump Type</b>	<b>Submersible</b>
<b>Service</b>	<b>Fountain Pumps</b>
<b>Arrangement</b>	<b>Suspended</b>
<b>SERVICE CONDITION</b>	
<b>Specific Gravity</b>	<b>1</b>
<b>Temp</b>	<b>Less Than 50C</b>
<b>Flow</b>	<b>23 CU.M/Hr</b>
<b>Total Dynamic Head</b>	<b>8 M</b>
<b>Hydraulic Efficiency</b>	<b>35%</b>
<b>Nut Bolt</b>	<b>S S STEEL</b>
<b>Discharge Flange size</b>	<b>2 inch</b>
<b>Impeller</b>	<b>2 FIN</b>
<b>Free Passage</b>	<b>1.5 MM</b>
<b>Material</b>	
<b>Pump Body</b>	<b>Cast Iron</b>
<b>Impeller</b>	<b>Bronze , cast iron, s s material</b>
<b>Static Sealing Ring</b>	<b>Tungsten Carbide Vs Tungsten Carbide</b>
<b>Rotary Static Ring</b>	<b>Tungsten Carbide Vs Tungsten Carbide</b>
<b>Shaft</b>	<b>carbon Steel</b>
<b>Double Lip Mechanical Seal</b>	<b>Synthetic Rubber</b>

### Photoelectric EE Switches (Daylight Switches)

Made in Japan

#### PRICE EACH

1. **Model: EE8123-821 230VAC 50Hz +** ... ..  
Operating Voltage range: 210 to 250VAC  
Load current Capacity : 3 Amps  
Light Level : to turn lamp ON .... 40 Lux (approx.)  
                  : to turn lamp OFF.... 120 Lux (approx.)  
Power Consumption : less than 6mA  
Maximum Number of Lamps to be controlled directly:  
Incandescent Lamps : 10 of 60W  
                  OR  
Fluorescent Lamps : 6 of 40W  
                  OR  
Mercury Lamps : 3 of 80W/100W/125W  
                  or : 1 of 200W/250W/300W

Rs. 8,000/=



2. **Model: EE8020-821 230VAC 50Hz +** ... ..  
Operating Voltage range : 210 to 250VAC  
Load current Capacity : 10 Amps  
Light Level : to turn lamp ON ..... 50 Lux (approx.)  
                  : to turn lamp OFF..... 200 Lux (approx.)  
Power Consumption : less than 10mA  
Maximum Number of Lamps to be controlled directly:  
Incandescent Lamps : 30 of 60W OR  
                                  20 of 100W  
                  OR  
Fluorescent Lamps : 23 of 40W  
                  OR  
Mercury Lamps : 10 of 80W/100W  
                          or : 8 of 125W  
                          or : 5 of 200/250W  
                          or : 4 of 300W  
                          or : 3 of 400W  
                          or : 1 of 700W/1000W

Rs. 11,000/=



NOTE: If higher load current capacity is required for controlling greater number of lamps, please use Contactors with the above EE SWITCHES.

**+ Till available in stock. Alternate Model on Page 255.**

#### FEATURES & APPLICATIONS FOR "EE SWITCHES":

- For Automatic Switching of Garden lamps, Gate lamps, Window & Showcase lamp, shopping arcades, Illuminated signs and Street lamps.
- For Automatic Switching of Factory and Work site lamps.
- Model: EE8020-821 is particularly suitable for roads & highways lighting and park lighting.
- No false switching due to momentary high brightness such as from Automobile headlights.
- Un-affected by light from controlled lamps due to downward mounting.
- High Speed Switching mechanism.
- EE Switches are provided with built-in arresters for protection against Lightning surge.

#### NOTE:

This list is subject to change without notice and goods being in stock. The prices in the list are reference prices and not sale prices. Discounts/Multipliers are applicable. The delivery, packing and forwarding charges are extra. All despatches are made on buyer's risk and account.

# SUMMER ELECTRICAL WORKS

MMP PVT LIMITED

INVOICE # 2620

15-August-2022

To MMP  
Electrical Division

QTY	DESCRIPTION	UNIT PRICE	TOTAL
	Supply, installation and commissioning of following items from recommended manufacturer, complete in all respects.		
08	Ceiling fan 56" Sweep	6,995	55,960/-
04	Bracket fan 18" Sweep	6,000	24,000/-
		<b>TOTAL</b>	<b>PKR 79,960/-</b>

THANK YOU FOR YOUR BUSINESS!

# **ANNEXURE – C**

## **Economic Analysis, Sensitivity Analysis & Cost Benefit Ratio**

# **Punjab Cities Program (PCP)**

## **Construction of Kala Gujran Park – Jhelum City**

### **1. Project Benefits and Analysis**

Parks and green spaces have intrinsic value, but they also provide a range of direct and indirect benefits that support healthy, productive lives and resilient, cohesive communities.

Just as water, sewer, and public safety are considered essential public services, parks are vitally important to establishing and maintaining the quality of life in a community, ensuring the health of families and youth, and contributing to the economic and environmental well-being of a community and a region.

The project's main objective is to provide the local peoples a recreational space with all the allied facilities proposed to be provided as listed below:-

- Rehabilitation of Boundary Wall and Main Gate
- Construction of New Cafeteria for the Visitors.
- Construction of public toilets for males and Females
- Construction of Pathways / Walkways
- Construction of Jogging Tracks.
- Grass, Tree Plantation
- Provision of indoor Play area
- Provision of Guard Rooms (Security measures for the public)
- Provision of Sitting spaces / benches
- Recreational activities for the children's
- Community development through improving basic infrastructure
- Clean and green environment for better living standards

In urban areas, community parks may be one of the only options for residents to enjoy nature and be active. The benefits of parks make them irresistible to surrounding residents.

Parks and recreation have three values that make them essential services to communities:

1. Economic / Financial value
2. Social Importance
3. Environmental benefits

### **2. Financial and Economic Values**

Economic analyses compare the benefits and costs and return to the economy as a whole. While, the financial analyses of the project compare direct benefits/revenues, costs and return to the individual investor / enterprise OR operating authority.

Economic and Financial values of the investment in park are to be assessed by comparing its benefits with project Cost. However, its benefits are more social, mostly not measureable.

## **1.1. Project Costs**

### **1.1.1. Capital Costs**

Project capital cost for provision of above mentioned facilities works out as Rs.151.74 million.

In Economic term, these costs are calculated out as Rs. 133.531 million by applying SCF (Standard Conversion Factor) of 0.88.

### **1.1.2. O&M Costs**

Financial and Economic benefits against the subject capital cost are detailed below:-

O&M Costs cost would be responsibility of Municipal Committee, Jhelum

## **1.2. Financial**

Financial revenues comprise to the direct financial earning (to the investor) which for the subject parks may be collected through:-

- 1) Rent charged to New Cafeterias
- 2) Fee charged to indoor Play area activities (if any) to the users
- 3) Fees charged on toilet use

However, provision of park and green space facility in cities is a public good and responsibility of the Government. Such investments are not to be recovered by rents/taxes/fees/charges by public in Pakistan. Park users are thereby not supposed to be taxed OR levied fees/charges for using such facilities. No revenues (public or private) are thereby anticipated to be directly generated. Hence, a financial analysis is not required as there is no positive cash flow or direct revenue stream that contributes to the calculation of an internal rate of return (IRR) or payback period or cost-benefit ratio calculations.

## **1.3. Economics**

Parks and recreation programs may generate revenue directly from fees and charges, but more importantly, provide significant indirect revenues to local and regional economies from sports tournaments and special events such as arts, music, and holiday festivals. Economic activity from hospitality expenditures, tourism, fuel, recreational equipment sales, and many other private sector businesses is of true and sustained value to local and regional economies.

Parks are a strong source of positive economic benefits. Economic direct measureable benefits in terms of their economic impacts on individuals and communities may include:

- i) Increased property value in vicinity area
- ii) Reduce health expenses / costs
- iii) Generate sales / business / commercial activity

Some other indirect economic benefits may include:

- i) attracted new jobs and employees

- ii) attract new residents and businesses to an area
- iii) attract home-buyers
- iv) reduced levels of stress
- v) parks strengthen local economies and create job opportunities

All above stated benefits to the public are highly subjective, thereby not possible to be measured. Thereby, no cost/benefit economic analysis to be undertaken.

#### **1.4. Financing Arrangements**

The Project is being financed by World Bank as donor along with 20% co-financing from the Program MCs and is not proposed to be financed out of Block Allocation. This program is included in the medium term / five-year plan and has been kept funding provision in ADP 2022-23

#### **1.5. Social Importance**

Parks are a tangible reflection of the quality of life in a community. Parks are socially beneficial to humans by many ways and for many reasons:-

- i) Parks Foster Mental, Physical and Spiritual Health....
- ii) Parks Encourage Physical Activity. ...
- iii) Parks Advance Health Equity. ...
- iv) Parks Help Kids Flourish. ...
- v) Parks are a Powerful Prescription to Combat Chronic Disease.
- vi) Encouraged neighbours to get to know each other
- vii) Promoting Community Wellness and community strengthening by
  - Providing spaces for kids and adults to gather and meet new people who enjoy similar activities.
  - Providing space/place for large gatherings (like parties or reunions) for health and well-being that are accessible by persons of all ages and abilities, especially to those with disabilities
  - Encouraging physical Activity and its positive impact on Kids
  - Creating Safe Gathering Place
  - Cost-effective activities to keep kids occupied.
  - Offering Family Bonding Sites
  - Creating Social Equality
  - Providing access to recreational opportunities
  - Promoting Community Wellness
  - Providing Connection Space- Community parks can be spaces for kids and adults to gather and meet new people who enjoy similar activities.
  - Making our cities and neighborhoods more attractive places to live and work
  - Attracting all ages especially children and retirees

Access to parks and recreation opportunities has been strongly linked to reductions in crime and to reduced juvenile delinquency.

#### **1.6. Environmental Benefits / impact**

Parks help to fight pollution, encourage biodiversity in city centers, help to control temperatures and humidity, provide aesthetic and recreation benefits to our cities. They function as an environmental purifier.

Some major environmental benefits may include:

- i) Parks provide intrinsic environmental, aesthetic, ecological and recreation benefits to our cities-
- ii) Parks are key to ensuring the health of our environment because they play a critical role in maintaining healthy ecosystems, providing clean water and enabling conservation of natural resources.
- iii) Open space reduce costs related to pollution. (One tree reduces air pollution control costs by \$62,000, recycles \$37,500 worth of water, and controls \$31,250 worth of soil erosion, according to the U.S. Forest Service Study)
- iv) Parks lower temperatures- (Green spaces to help ease residents' discomfort from the heat concrete surfaces and buildings absorb)
- v) Clearing the Air -- In cities, air pollution from cars and industrial plants can reach dangerous levels for the residents. Planting trees in recreation areas can combat this problem. Each acre of tree cover can remove 80 pounds of pollution from the air

#### **1.7. Impact of delays on project cost and viability**

Delays in the project will cause the total cost of the project to go up due to ever increasing inflationary pressures.



# **ANNEXURE – D**

## **Implementation Period (Gant Chart)**

<b><u>CONSTRUCTION OF NEW PARKS IN JHELUM CITY</u></b>						
<b>Project Implementation Period Chart</b>						
<b>Sr. No.</b>	<b>Activity</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>
		<b>2023</b>	<b>2023</b>	<b>2023</b>	<b>2023</b>	<b>2023</b>
1	KALA GUJRAN					

# **ANNEXURE – E**

## **Environment & Social Mitigation Cost**

## Environmental and Social Screening Checklists of the Sub-Project

### Construction of new Park in Jhelum City Environmental & Social Screening Checklist

**Instructions:**

Environmental and Social Focal Persons (ESFPs)<sup>1</sup> nominated by the MCs for PCP environmental and social management, will use this checklist in field for environmental and social screening and categorization of each and every sub-project proposed to be executed under the Program.

Deputy Program Officers-Environmental and Social Management deputed by PMDFC in regional offices will technically assist and support the ESFPs/MCs in filling in of this Checklist

It is to be attached with the main document<sup>2</sup> of sub-projects at planning stage and will be duly signed by the relevant ESFP and endorsed by the respective DPO-ESM

This checklist focuses on environmental issues and social concerns. To ensure that social dimensions are adequately considered, Involuntary Resettlement Screening Checklist will also be used

The purpose of this E&S Screening Checklists is to identify potential “Negative” impacts of environmental and social attributes or to enhance the existing environmental & social benefits. Use the “remarks” section to discuss any anticipated mitigation measures.

**Name of ESFP:**

Muhammad Ahmad MOI&S/ Muhammad Dawood MOP

**Name of MC:**

Jhelum

**Sub-Project Sector:**

parks

**Sub-Project Title:**

Construction of New Kala Gujran Park in Jhelum 5 acre

**Sub- Project Categorization:**

E-1 & S-2

**Date of Screening:**

10-09-2022

**Anticipated Project Activities**

Build A Jogging Track And Pathway, Supply Of Ornamental Plants And Benches, Construct A Rainwater Recharge Structure And Well, Build A Cafeteria And Toilets, Installation Of Swings, Installation LED Lights And Poles, Construction Of Gazebos, Development Of Parking Outside The Park With Tuff Pavers, Fountain Development And Roundabout Sitting, Construction Of Main Gate,

<sup>1</sup> In all MCs, ESFPs are to be notified by Local Government; MO (I&S) are focal persons for environmental sector and MO (P) are focal persons for social sectors.

<sup>2</sup> It is

Rehabilitation Of Existing Benches, Construction Of Boundary Wall, Construction Of Indoor Sports Area, Construction Of Net Cricket.

It may be concluded that the subproject would have moderate environmental impacts so subproject is categorized as **environmental category E1** therefore Initial Environmental Examination (IEE) will be required.

However, sub-project do not involve any human displacement or resettlement but it may cause temporary disturbance and localized impacts on the local communities so it is characterized as **social category S2**.

Moreover, the subproject will require construction labor/ workers for the execution therefore Environment, Health and Safety SOPs developed by PMDFC, will be applicable and followed by the contractor.

The cost for the implementation of Environment and Social Management Plan (ESMP) including Environment, Health and Safety SOPs for labor will be 1.041 million PKR to be borne by the contractor as mentioned in the bidding document for the subproject.

<b>Estimated Cost of Subprojects</b>	<b>156.10 Million PKR</b>	
<b>Tentative Completion Time/Duration</b>	<b>6 months</b>	
<b>Estimated Labor for Subproject</b>	<b>20</b>	

Screening Questions	Yes	No	Remarks
<b>A. Project Siting</b> Is the Sub-Project area adjacent to or within any of the following:			
<b>Environmentally sensitive areas?</b>			
Legally protected Area		✓	Legally protected area not recorded nearby to the city.
Any surface water body (river, canal, stream, lake, wetland) within 250 meter of the proposed road		✓	Not observed
Estuarine		✓	Not applicable
Special area for protecting biodiversity		✓	Biodiversity protected area not recorded nearby to the city.
Buffer zone of protected area		✓	Not applicable
Mangroves Forest		✓	Not applicable
Man-made forest /game reserve, orchid /crops or any other area of environmental importance		✓	Not observed
<b>Socially sensitive /important areas/communities/ people?</b>			
Physical Cultural Resources (PCRs) and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, <i>Gordwarah</i> , Temple, Fort, archeological/historical site) within 100 m of the proposed subproject	✓		One shrine observed
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project <sup>3</sup>	✓		3 school observed
Any graveyard of local community (Muslims or Christians)		✓	Not applicable
Any demographic or socio-economic aspects of the sub-project area that are already vulnerable (e.g., high incidence of marginalized populations, rural-urban migrants, illegal settlements, squatters, ethnic minorities, people with disabilities, people in old age, socially isolated segments <sup>4</sup> of the society and women or children)?		✓	Not applicable
Already existing infrastructure <sup>5</sup> (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		✓	Not applicable
<b>B. Potential Environmental Impacts</b> Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	Not applicable
2. Cutting of trees?		✓	Not applicable
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	Not applicable
4. Generation of wastewater during construction or operation?	✓		The domestic wastewater collected from the septic camp of labor camp will be disposal in the nearby sewerage lines.
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?	✓		Domestic waste water will be produced during construction but the waste will be collected in septic tanks.

<sup>3</sup>Ibid.

Screening Questions	Yes	No	Remarks
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/rivers or due to increased soil erosion at construction site?		✓	No such activity is foreseen
7. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		✓	No deterioration in surface water quality is anticipated
8. Over pumping of ground water, leading to salinization and ground subsidence?		✓	Pumping of groundwater is expected on small scale only for construction purpose
9. Serious contamination of soil due to construction works?		✓	No serious contamination of soil is foreseen
10. Aggravation of solid waste problems in the area?	✓		Construction waste generated during road improvement will be collected and disposed of at designated place to avoid solid waste problem in the project area
11. Generation of hazardous waste?	✓		Solid waste will be generated during dismantling of existing infrastructures which will be disposed of to a designated place approved by the MC
12. Increased air pollution due to sub-project construction and operation?	✓		Increased air pollution due to smoke and dust generated by the movement of vehicles and construction machinery at project site is expected. The mitigation measures include control on speed limit of project vehicles and use of construction machinery in good working condition and regular sprinkling of water at dust prone roads/site.
13. Noise and vibration due to sub-project construction or operation?	✓		The noise pollution during construction phase because of project vehicles and construction machinery is expected. The mitigation includes use of tuned vehicles and machinery will be ensured. Vibration abating devices will be used. Use PPEs by labor will be ensured. The working hours will be scheduled and restricted in school, colleges and prayers timings in daytime only.
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?	✓		The stagnant water in construction areas may create temporary breeding habitat for mosquitoes and resulting in

<sup>4</sup> due to caste, creed, religion or gender e.g. transgender

<sup>5</sup> Sewerage /Drainage system, Water supply lines, tube-wells, WAPDA/Telephone transmission lines/electric poles, Railway tracks, Gas pipelines, Roads, Shops/Plazas, Banks, Industry, Disposal stations etc.

Screening Questions	Yes	No	Remarks
			dengue issue. Proper housekeeping and tidy conditions will avoid the creation of breeding habitats. Use of anti-mosquito spray will be ensured
15. Use of chemicals during construction?		✓	Not applicable
<b>C: Potential Social Impacts</b> Will the Sub-Project cause...			
1. Impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to Physical Cultural Resources (PCRs)?		✓	Not applicable
2. Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)		✓	Not applicable
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups (mentioned above)?		✓	Not applicable
4. Temporary impediments in movements of people/transport and animals?	✓		The movement of people may put some impediments during dismantling of existing drain and construction of new drains. Traffic management Training will be provided to drivers. Alternative routes will be provided to community.
5. Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		✓	The proposed intervention of construction of storm water drains requires 20 working staff at a time and thus largescale population influx is not foreseen. The contractor to establish construction camp at appropriate place at open place sufficiently away from the populated area.
6. Social conflicts if workers from other areas are hired?		✓	In IEE, the contractor will be bound to prefer local labor to avoid social conflicts.
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	✓		Binding of contractor to take care of H&S aspects. Supervision consultants to monitor the OHS aspects.
8. Risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation?	✓		During construction phase only. Contractor staff to be trained for waste management.
9. Community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could	✓		Contractor staff to be trained w.r.t H&S issues. Liaison with local emergency services and hospitals.



Screening Questions	Yes	No	Remarks
result in injury to the community throughout project construction, operation and decommissioning?			
10. Any impact on sensitive receptors (mentioned above)		✓	Not applicable
11. Any impact of negative nature on already existing infrastructure including public amenities		✓	Not applicable

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Prepared By: Name: Mujhammad Hanan Designation: Env Specialist Signature	Reviewed By: Name: Tehmina Kiran Designation: PO ESM-PMDFC Signature	Endorsed By: Name: Muhmmad Ahmad Designation: MOI&S Signature
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## Involuntary Resettlement Screening Checklist

**Name of City/MC/LG:** Jehlum  
**ESFP:** Muhammad Dawood MOP

**Sub-Project Sector:** Parks

**Sub-Project Title:** Construction of New Kala Gujran Park in Jhelum 5 acre

**Sub- Project Categorization:**S-2

**Date of Screening:** 10-9-2022

Screening Questions	Yes	No	Expected	Remarks
Does the project require land acquisition? Yes/No		✓		MC onwed land
If yes, then describe the type of land being acquired from the categories below:		✓		Not applicable
Has any AED been conducted at the proposed location by the government1? Yes/No		✓		No AED has been conducted at the propsoed site.
Land (Quantify and describe types of land being acquired in “remarks column”.		✓		Not applicable
Government and LG owned land free of occupation (agriculture or settlement)		✓		Not applicable
Government or state-owned land (other than LG) free of occupation (agriculture or settlement)		✓		Not applicable
Private land		✓		Not applicable
Residential		✓		Not applicable
Commercial		✓		Not applicable
Agricultural		✓		Not applicable
Communal		✓		Not applicable
Others (specify in “remarks”).		✓		Not applicable
Name of owner/owners and type of ownership document if available.		✓		Not applicable
If land is being acquired, describe any structures constructed on it		✓		Not applicable
Land-based assets:		✓		Not applicable
Residential structures		✓		Not applicable
Commercial structures (specify in “remarks”)		✓		Not applicable
Community structures (specify in “remarks”)		✓		Not applicable
Agriculture structures (specify in “remarks”)		✓		Not applicable
Public utilities (specify in “remarks”)		✓		Not applicable
Others (specify in “remarks”)		✓		Not applicable
If agricultural land is being acquired, specify the following:		✓		Not applicable
Agriculture related impacts		✓		Not applicable
Crops and vegetables (specify types and cropping area in “remarks”).		✓		Not applicable

Trees (specify number and types in “remarks”).		✓		Not applicable
Others (specify in “remarks”).		✓		Not applicable
Affected Persons (APs)		✓		Not applicable
Will any people be displaced from the land when acquired? Yes/No		✓		Not applicable
Number of APs		✓		Not applicable
Males		✓		Not applicable
Females		✓		Not applicable
Titled landowners		✓		Not applicable
Tenants and sharecroppers		✓		Not applicable
Leaseholders		✓		Not applicable
Agriculture wage laborers		✓		Not applicable
Encroachers and squatters (specify in remarks column)		✓		Not applicable
Vulnerable APs (e.g. women headed households, minors and aged, orphans, disabled persons, and those below the poverty line). Specify the number and vulnerability in “remarks”.		✓		Not applicable
Others (specify in “remarks”)		✓		Not applicable
How will people be affected?		✓		Not applicable

Prepared By:  Name: Nasir Altaf  Designation: Social Safeguards Specialist  Signature	Reviewed By:  Name: Tehmina Kiran  Designation: PO ESM-PMDFC  Signature	Endorsed By:  Name: Muhammad Dawood  Designation: MOP  Signature
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### Pictures of Peer Azmat kala Gujran park Jhelum Field Visit



## Land owner ship Document



Estimated IEE Implementation Cost Constrcution of Kala Gujran Park			
Item	Quantity	Tentative Cost/Item- Rs./-	Total Cost
A-PPEs			
Face Masks (3 PLY) - box	30	300	9000
Safety Hard Helmets	15	3,000	45000
Safety Shoes	15	3,000	45000
Hand Gloves	15	1,000	15000
Ear Plugs	15	500	7500
Reflective Safety Vest	15	1,000	15000
Safety Goggles	15	500	7500
B-Community Health and Safety			0
First Aid Box Complete	1	10,000	10000
Infrared Thermometer (Benetech GM-2200 or equivalent)	1	40,000	40000
Safety Signs	5	15,000	75000
Safety Cones	10	1,000	10000
Safety Tapes	20	1,500	30000
Emergency Portable Lights	2	3,000	6000
Fire Fighting Equipment Purchase and refilling	1	10,000	10000
Pole Hanging Waste Bins	1	12,000	12000
Labor Campsite Management	Lump sum		100,000
Social and Behavior Change Campaign	Lump sum		100,000
C- Environment Quality Testing			
Ambient Air Quality-during and after construction	2	85000	170000
Noise Quality-one sample during & after construction	2	1000	2000
Water Quality-one sample during & after construction	2	22000	44000
Total (PKR)-A+B+C+D			753,000

# **ANNEXURE – F**

## **Drawings**



# Kala Gujran Park

## Jehlum (Package I)



### Consultants



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2nd Floor, CTI Building,  
27-Empress Road, Lahore  
042-36292525-7  
042-36292528  
cdc.mmp@mmpakistan.com  
<http://www.mmpakistan.com>



### Government of Punjab



Punjab Municipal Development  
Fund Company  
Development (PMDFC)

### Financing Agency

WORLD BANK

### Project

Punjab Cities Program (PCP)

### Kala Gujran Park

Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale at A3	As Shown
Rev	Status
0	Draft



PUNJAB CITIES PROGRAM - (PCP)  
CONSTRUCTION OF NEW PARK  
AT JHELUM

01. KALA GUJRAN PARK AT JHELUM

1.	MMP-1074P01-JHE-PARK-KGN-AR- 01	SURVEY LAYOUT PLAN OF KALA GUJRAN PARK.
2.	MMP-1074P01-JHE-PARK-KGN-AR- 26	PARK LAYOUT PLAN OF KALA GUJRAN PARK.
3.	MMP-1074P01-JHE-PARK-KGN-AR- 551	LIGHT POLES LAYOUT PLAN
4.	MMP-1074P01-JHE-PARK-KGN-AR- 552	LIGHT CONDUIT LAYOUT PLAN -1
5.	MMP-1074P01-JHE-PARK-KGN-AR- 126	3D VIEW-01
6.	MMP-1074P01-JHE-PARK-KGN-AR- 126	3D VIEW-02
7.	MMP-1074P01-JHE-PARK-KGN-AR- 126	3D VIEW-03
8.	MMP-1074P01-JHE-PARK-KGN-AR- 126	3D VIEW-04
9.	MMP-1074P01-JHE-PARK-KGN-AR- 126	3D VIEW-05




02. TYPICAL DRAWINGS OF KALA GUJRAN PARK AT JHELUM

1.	MMP-1074P01-JHE-PARK-TYP-MG-AR-501	MAIN GATE DETAIL.
2.	MMP-1074P01-JHE-PARK-TYP-BW-AR-501	BOUNDARY WALL DETAIL.
3.	MMP-1074P01-JHE-PARK-TYP-CF-AR-501	CAFETERIA DETAIL-01.
4.	MMP-1074P01-JHE-PARK-TYP-CF-AR-502	CAFETERIA DETAIL-02.
5.	MMP-1074P01-JHE-PARK-TYP-CF-AR-503	CAFETERIA DETAIL-03.
6.	MMP-1074P01-JHE-PARK-TYP-CF-AR-504	CAFETERIA DETAIL-04.
7.	MMP-1074P01-JHE-PARK-TYP-CF-AR-505	CAFETERIA DETAIL-05.
8.	MMP-1074P01-JHE-PARK-TYP-CF-AR-506	CAFETERIA DETAIL-06.
9.	MMP-1074P01-JHE-PARK-TYP-CF-AR-507	CAFETERIA DETAIL-07.
11.	MMP-1074P01-JHE-PARK-TYP-CF-AR-551	ELECTRICAL LIGHTING & POWER LAYOUT PLAN.
12.	MMP-1074P01-JHE-PARK-TYP-CF-AR-601	SEWERAGE LAYOUT PLAN.
13.	MMP-1074P01-JHE-PARK-TYP-CF-AR-651	WATER SUPPLY LAYOUT PLAN.
14.	MMP-1074P01-JHE-PARK-TYP-CF-AR-751	CAFETERIA 3D VIEW.
15.	MMP-1074P01-JHE-PARK-TYP-MFT-AR-501	MALE & FEMALE TOILET DETAIL-01.
16.	MMP-1074P01-JHE-PARK-TYP-MFT-AR-502	MALE & FEMALE TOILET DETAIL-02.
17.	MMP-1074P01-JHE-PARK-TYP-MFT-AR-551	ELECTRICAL LIGHTING LAYOUT PLAN.
18.	MMP-1074P01-JHE-PARK-TYP-MFT-AR-601	SEWERAGE LAYOUT PLAN.
19.	MMP-1074P01-JHE-PARK-TYP-MFT-AR-651	WATER SUPPLY LAYOUT PLAN.
20.	MMP-1074P01-JHE-PARK-TYP-MFT-AR-751	TOILET 3D VIEW.
21.	MMP-1074P01-JHE-PARK-TYP-GB-AR-501	GAZEBO DETAIL.
22.	MMP-1074P01-JHE-PARK-TYP-GB-AR-551	ELECTRICAL LIGHTING LAYOUT PLAN.
23.	MMP-1074P01-JHE-PARK-TYP-GB-AR-751	GAZEBO 3D VIEW.
24.	MMP-1074P01-JHE-PARK-TYP-CB-AR-501	CONCRETE BENCH (TYPEA).
25.	MMP-1074P01-JHE-PARK-TYP-CB-AR-751	CONCRETE BENCH 3D VIEW.
26.	MMP-1074P01-JHE-PARK-TYP-WIB-AR-501	WROUGHT IRON BENCH (TYPE-B) DETAIL-01.

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		WORLD BANK								Drawn	MMP
										Checked	MMP
										Approved	PMDFC
										Scale	As Shown
		Project							Drawing No.	Rev No:	0
Punjab Cities Program (PCP)							MMP-1074P01-JHE-PARK-LOD-01				

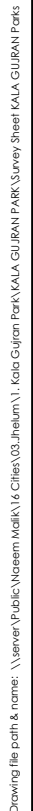
PUNJAB CITIES PROGRAM - (PCP)  
CONSTRUCTION TYPICAL DRAWINGS OF NEW PARKS  
AT JHELMUM




27.	MMP-1074P01-JHE-PARK-TYP-WIB-AR-502	WROUGHT IRON BENCH (TYPE-B) DETAIL-02.
28.	MMP-1074P01-JHE-PARK-TYP-WIB-AR-751	WROUGHT IRON BENCH 3D VIEW.
29.	MMP-1074P01-JHE-PARK-TYP-CM-AR-501	CONCRETE BENCH WITH M.S.TABLE (TYPE-C).
30.	MMP-1074P01-JHE-PARK-TYP-GR-AR-501	GUARD ROOM DETAIL.
31.	MMP-1074P01-JHE-PARK-TYP-GR-AR-551	ELECTRICAL LIGHTING & POWER LAYOUT PLAN.
32.	MMP-1074P01-JHE-PARK-TYP-GR-AR-751	3D VIEW.
33.	MMP-1074P01-JHE-PARK-TYP-JG-AR-501	JOGGING TRACK & PATHWAY DETAIL.
34.	MMP-1074P01-JHE-PARK-TYP-FD-AR-501	FINISHES DETAIL
35.	MMP-1074P01-JHE-PARK-TYP-NCK-AR-501	NET CRICKET DEATAIL-01
36.	MMP-1074P01-JHE-PARK-TYP-NCK-AR-502	NET CRICKET DEATAIL-02
37.	MMP-1074P01-JHE-PARK-TYP-WT-AR-501	UNDER GROUND WATER TANK DETAIL-1
38.	MMP-1074P01-JHE-PARK-TYP-WT-AR-502	UNDER GROUND WATER TANK DETAIL-2
39.	MMP-1074P01-JHE-PARK-TYP-WT-AR-503	UNDER GROUND WATER TANK DETAIL-3
40.	MMP-1074P01-JHE-PARK-TYP-JG-AR-751	PATH WAY 3D VIEW.
41.	MMP-1074P01-JHE-PARK-TYP-VT1-AR-501	VINE TUNNEL DETAIL-01 TYPE-B
42.	MMP-1074P01-JHE-PARK-TYP-VT1-AR-501	VINE TUNNEL DETAIL-02 TYPE-B
43.	MMP-1074P01-JHE-PARK-TYP-VT1-AR-501	STEPS / RAMP / KEYARI / PLANTER DETAIL
44.	MMP-1074P01-JHE-PARK-TYP-PB-AR-501	BENCH WITH PERGOLA DETAIL-1
45.	MMP-1074P01-JHE-PARK-TYP-PB-AR-501	BENCH WITH PERGOLA DETAIL-2
46.	MMP-1074P01-JHE-PARK-TYP-LG-AR-501	LEGEND.

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									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0
							Drawing No.	MMP-1074P01-JHE-PARK-LOD-02		
124										

# KALA GUJRAN PARK AT JHELUM

# ARCHITECTURE DRAWINGS



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									Drawn	MMP
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown



Drawing file path & name: \\1. sheraiz\\01-4-clies\\pupab\\03. Jhelum\\Jhelum UPDATED 24.01.2023\\1. Kala Gujran Park\\KALA GUJRAN PARK\\KALA GUJRAN PARK-17.2.23



LEGEND			
01	Terminalia Tree		
02	Phoenix Palm		
03	Alstonia tree		
04	GulMohar Tree		
05	Jacaranda Tree		
06	Yucca		
07	Rain Tree		
08	Plumbago		
09	Bismarkia		
10	Conocarpus		
11	Cone Topiary		
12	Lantana		
13	Bird Of Paradise		
14	Foxtail Palm		
15	Star Jasmine		
16	Jatropha		
17	Kaner		
18	Bougain Plant		
19	Lagerstroemia		
20	Alternanthera		
21	Hibiscus		
22	Bamboos Conocarpus		
23	Fine Dhaka Grass		
24	Jogging Track		507 Meters (1662 RFT.)
25	Area of Park		(189448.246 SFT.)
26	Concrete Bench With MS Table		
27	Concrete Bench		
28	Wrought Iron Benches		
29	Gazebo		
30	Public Toilets		
31	Cafeteria		
32	Lawn Light Pole		
33	High Luminance / Mast Pole		
34	Dust Bin		
35	Rain Water Storage		

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**MMP**  
CENTRAL DESIGN CELL  
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27-Empress Road, Lahore  
042-36292528  
cdc.mmp@mmpakistan.com  
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Punjab Municipal Development  
Fund Company  
Department (PMDFC)

Financing Agency  
WORLD BANK  
Project  
Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved

Title  
**LAYOUT PLAN OF KALA  
GUJRAN PARK**  
Drawing No.  
MMP-1074P01-JHE-PARK-KGN-AR-26

Designed	MMP
Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale	As Shown
Rev No:	0

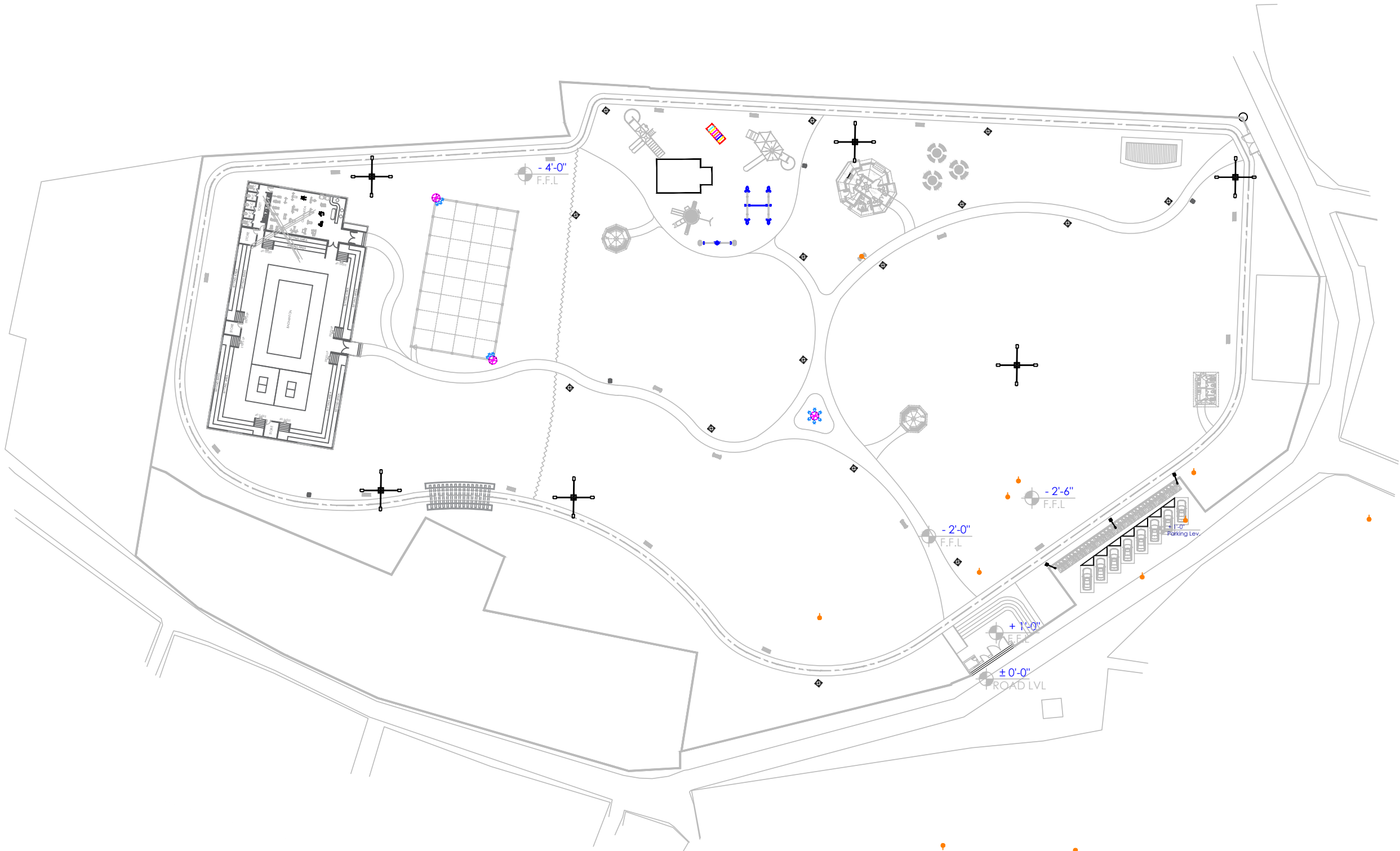


# *ELECTRICAL DRAWINGS*



LEGEND  
EXTERNAL LIGHTING

Sr/No	NAME	SYMBOL
01	6FT ORNAMENTAL POLE WITH LAMINAR	
02	10 METER FOUR ARM POLE WITH LAMINAR	
03	10 Meter Single Arm pole	
04	12 meter Ring Top Lighting Pole	
05	Wall Mounted Light Control Panel	
06	4-CORE 6mm-sq Cable (Buried underground in 25 mm PVC Conduit)	
07	2-CORE 2.5 mm-sq Cable (Buried underground in 25 mm PVC Conduit)	



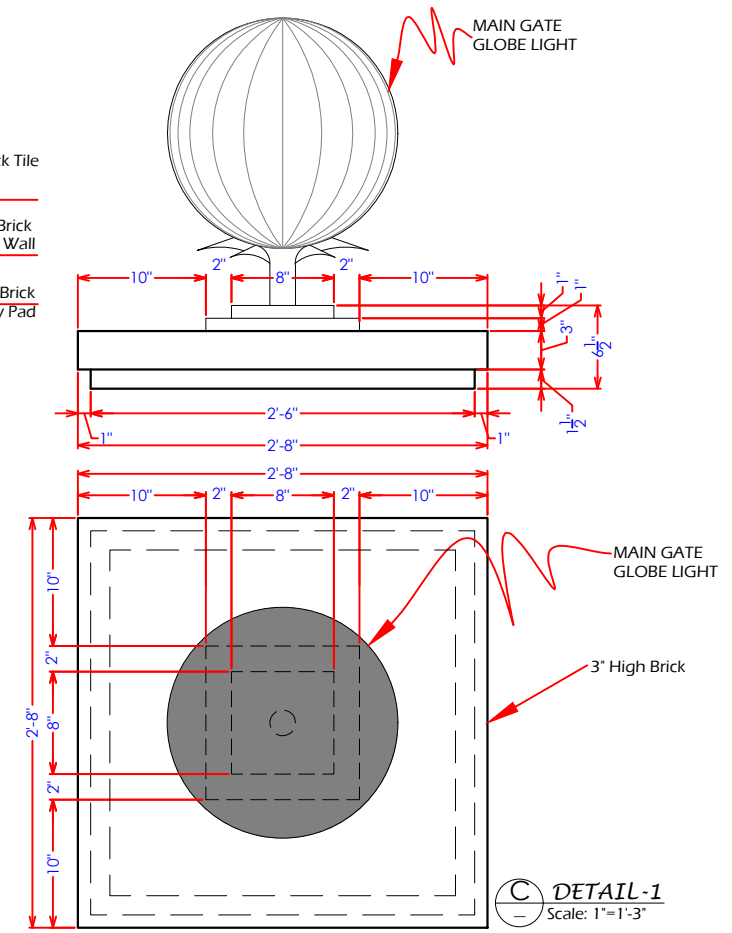
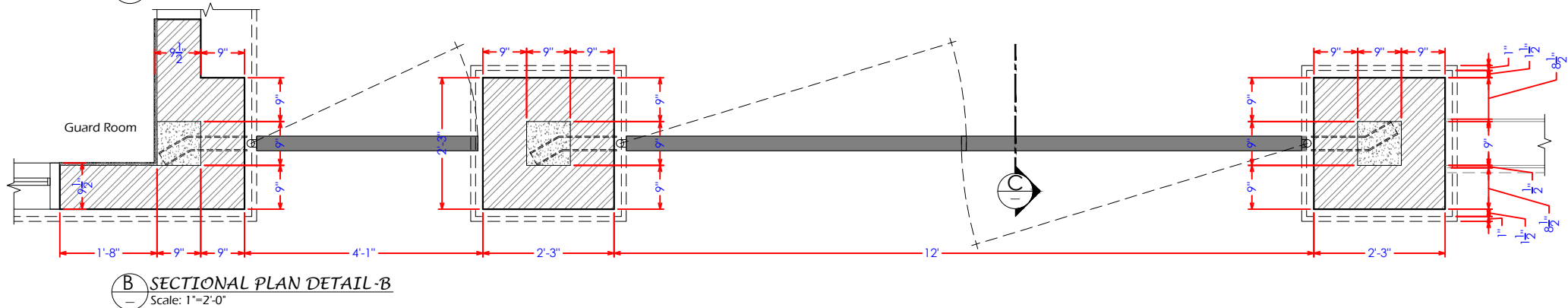
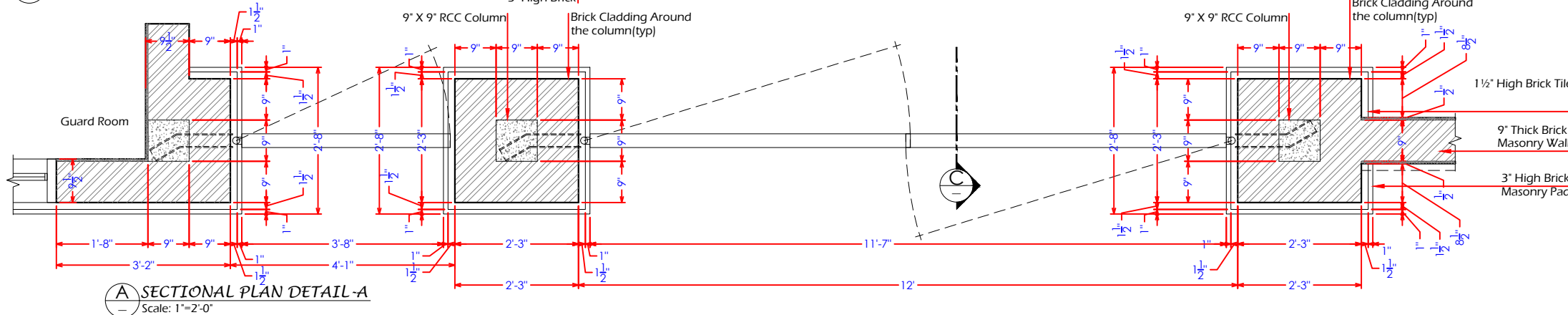
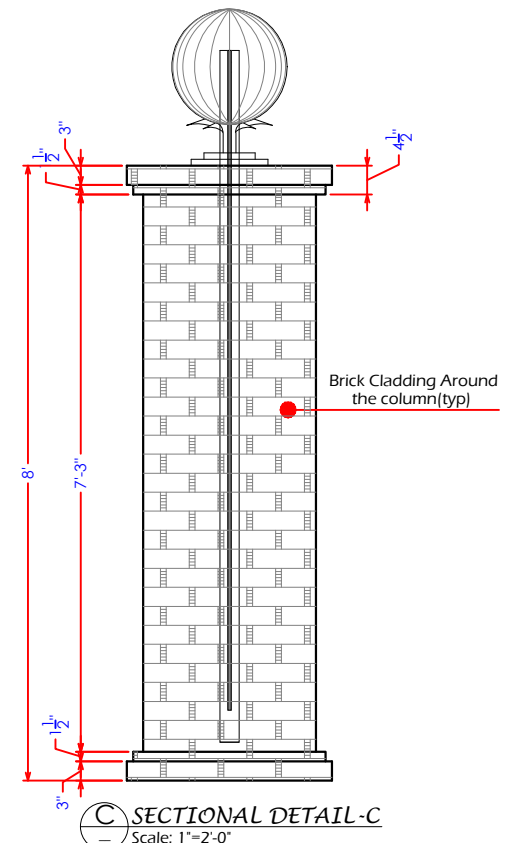
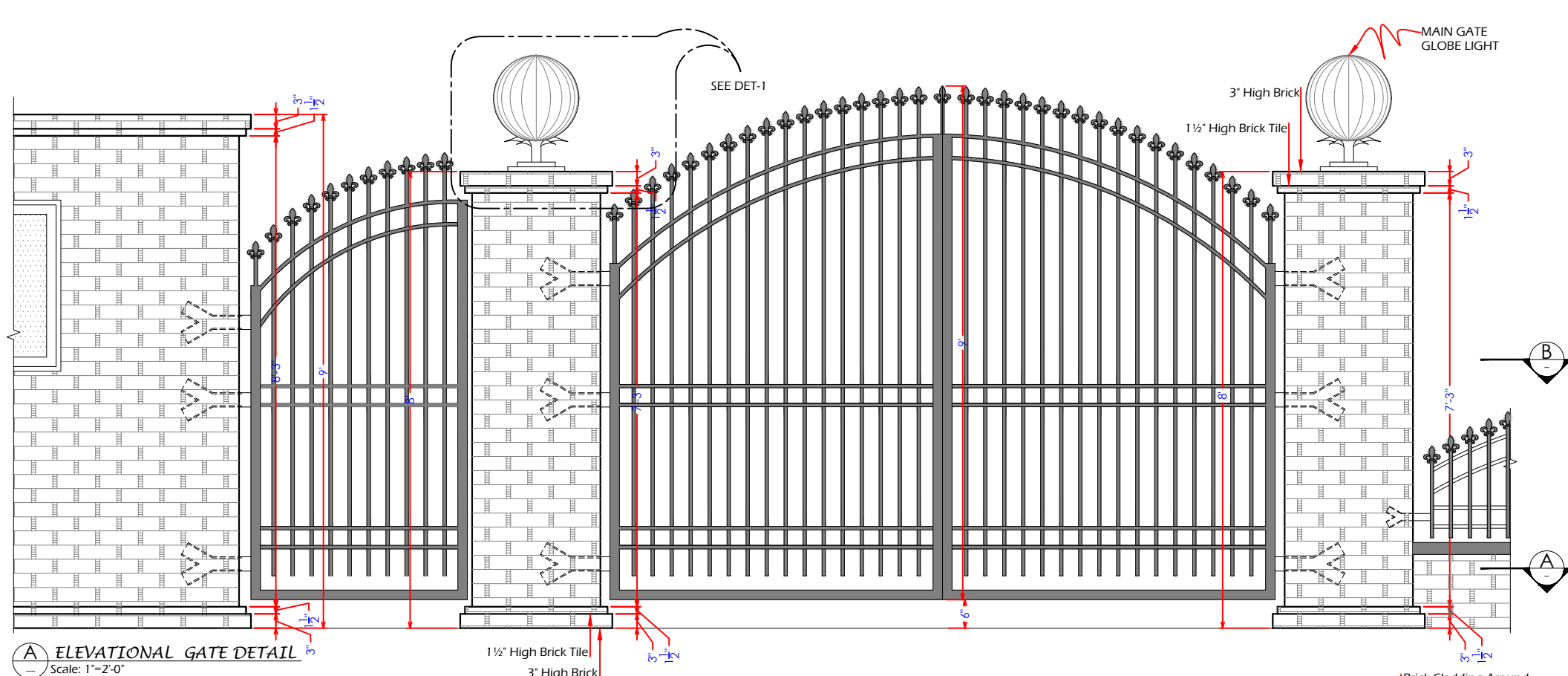
A PARK LAYOUT PLAN  
A-101  
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										Drawn	MMP
										Checked	MMP
										Approved	PMDFC
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									Rev No:	0	





# TYPICAL DRAWINGS

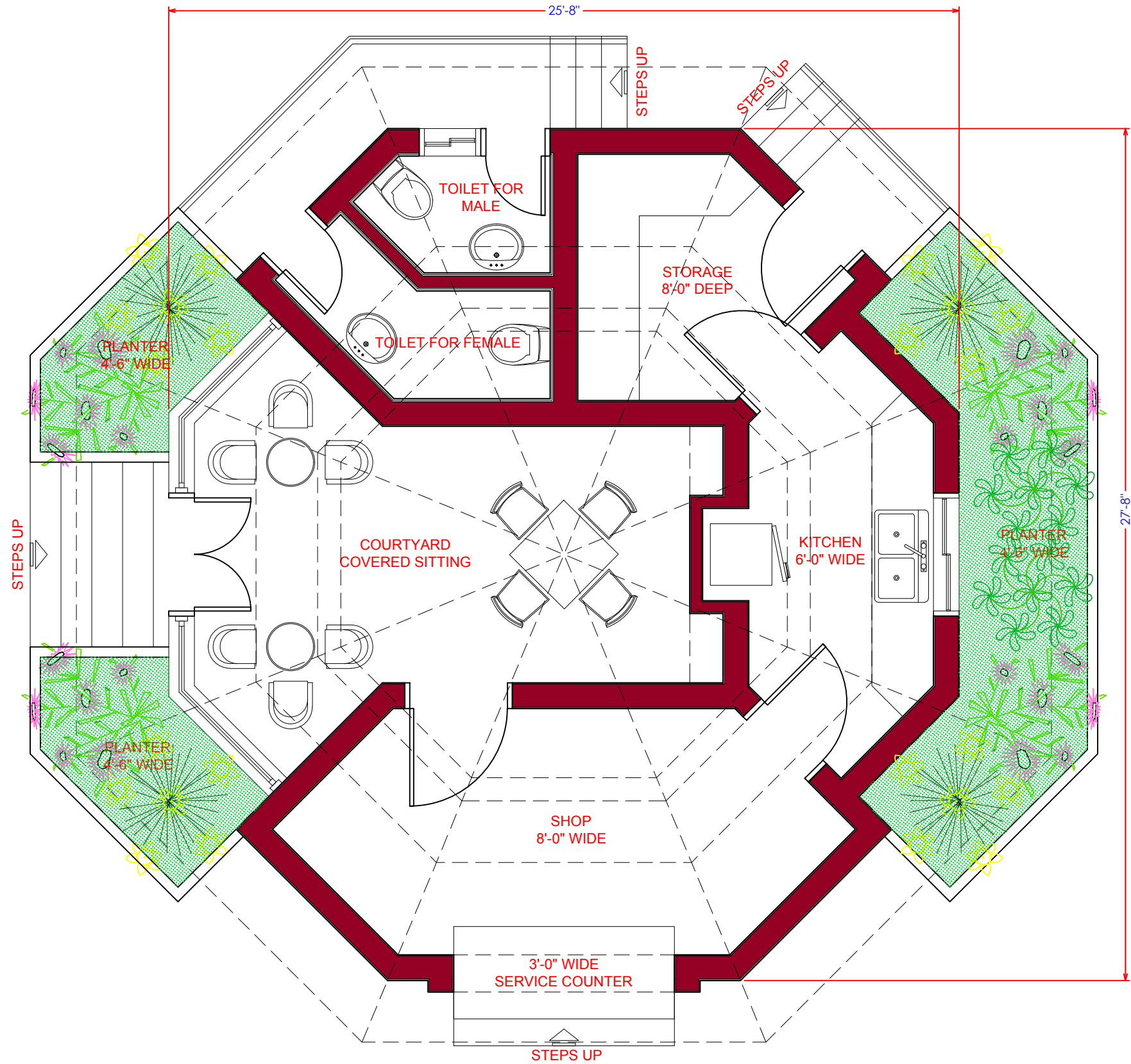


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									Drawn	MMP
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0




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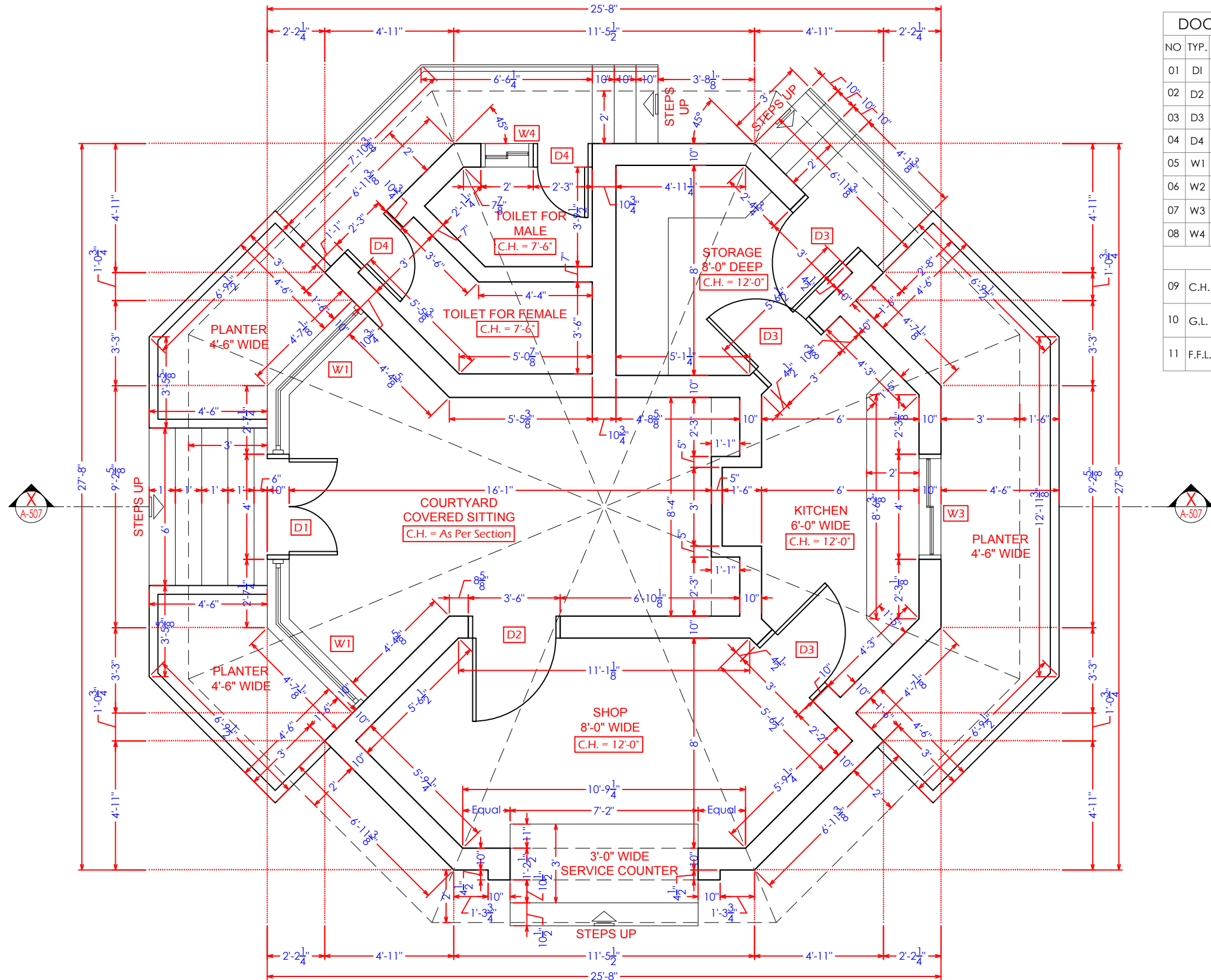




**A CAFETERIA SECTIONAL PLAN AT A-A**  
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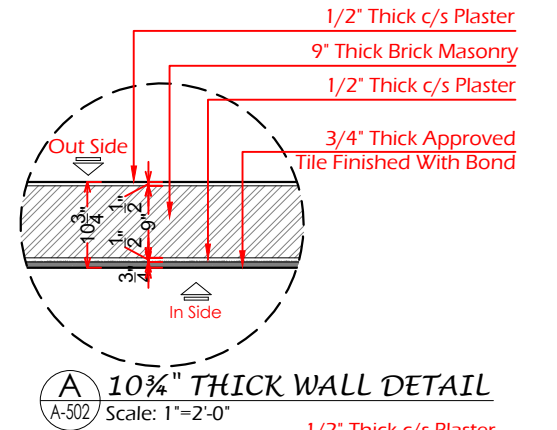
<div>Consultants</div> <div></div> <div><div>CENTRAL DESIGN CELL</div><div>2nd Floor, CT1 Building,</div><div>27-Empress Road, Lahore</div><div>042-36292525-7</div><div>042-36292528</div><div>cdc.mmp@mmpakistan.com</div><div>http://www.mmpakistan.com</div></div>	<div>Client</div> <div></div> <div>GOVERNMENT OF PUNJAB</div> <div></div> <div>HELP BUILD PMDFC HEALTHY CITIES</div> <div>Punjab Municipal Development Fund Company Department (PMDFC)</div>	<div>Financing Agency</div> <div>WORLD BANK</div> <div>Project</div> <div>Punjab Cities Program (PCP)</div>	Rev.	Date	Description	Checked	Approved	<div>Title</div> <div>CAFETERIA DETAIL-01</div> <div>Drawing No.</div> <div>MMP-1074P01-JHE-PARK-TYP-CF-AR-501</div>	Designed	MMP	
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										Checked	MMP
										Approved	PMDFC
										Scale	As Shown
										Rev No:	0

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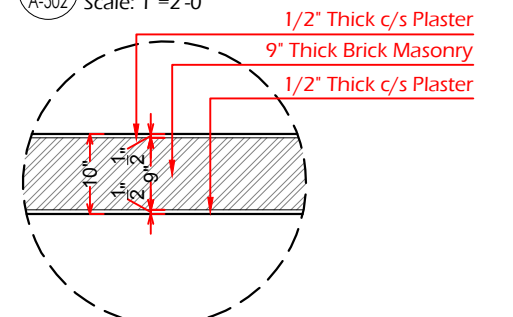


**A CAFETERIA SECTIONAL PLAN AT A-A**  
A-502 Covered Area Of 1st Canopy : 619 SFT.

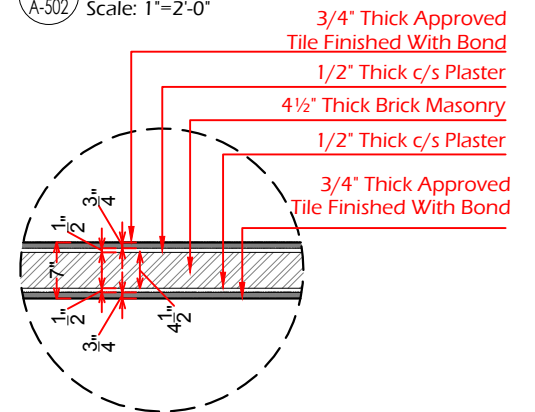
DOORS & WINDOWS SCHEDULE				
NO	TYP.	SIZE	SILL	DESCRIPTION
01	D1	4'-0"X7'-0"	0'-0"	WOODEN DOOR
02	D2	3'-6"X7'-0"	0'-0"	WOODEN DOOR
03	D3	3'-0"X7'-0"	0'-0"	WOODEN DOOR
04	D4	2'-3"X7'-0"	0'-0"	PVC DOOR
05	W1	4'-7 <sup>1</sup> / <sub>8</sub> "X2'-7 <sup>1</sup> / <sub>4</sub> " X 7'-0"	0'-0"	GLASS WINDOW
06	W2	5'-1 <sup>1</sup> / <sub>2</sub> " X 1'-6"	-	GLASS WINDOW
07	W3	4'-0"X3'-6"	3'-6"	GLASS WINDOW
08	W4	2'-0"X2'-0"	5'-0"	GLASS WINDOW
LEGEND				
09	C.H.	CLEAR HEIGHT (Finished Floor To Bottom Of Slab)		
10	G.L.	GROUND LEVEL		
11	F.F.L.	FINISHED FLOOR LEVEL		



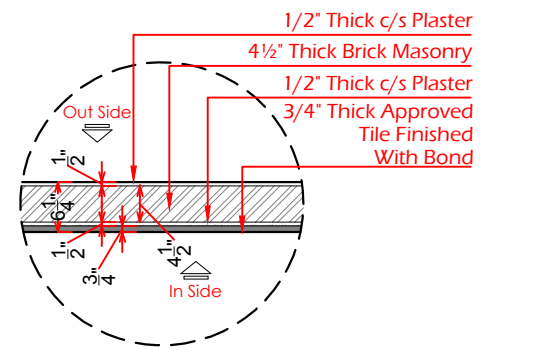
**10 3/4" THICK WALL DETAIL**  
A-502 Scale: 1"=2'-0"



**10" THICK WALL DETAIL**  
A-502 Scale: 1"=2'-0"



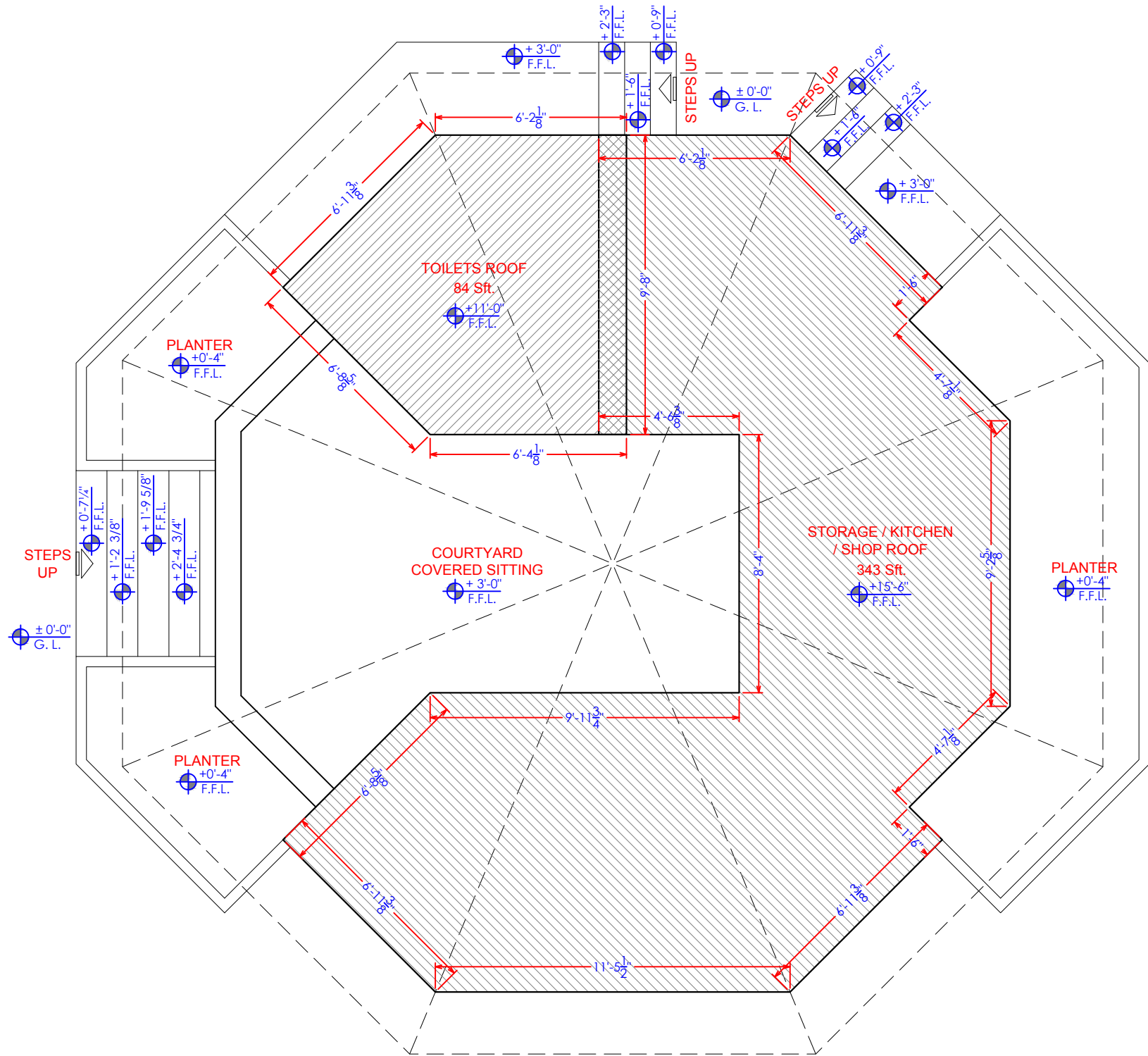
**7" THICK WALL DETAIL**  
A-502 Scale: 1"=2'-0"



**6 1/4" THICK WALL DETAIL**  
A-502 Scale: 1"=2'-0"

Consultants		Client	Financing Agency	Rev.	Date	Description	Checked	Approved	Title	Designed	MMP
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										Approved	PMDFC
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Drawing file path & name: \\server\\Public\\Noor\\Malk\\14\\Client\\03\\Jhelum\\1. Kola Gujran Park\\Typical Drawings for Jhelum\\03Typ. CF-AR-501 To A-507 Cafeteria Detail

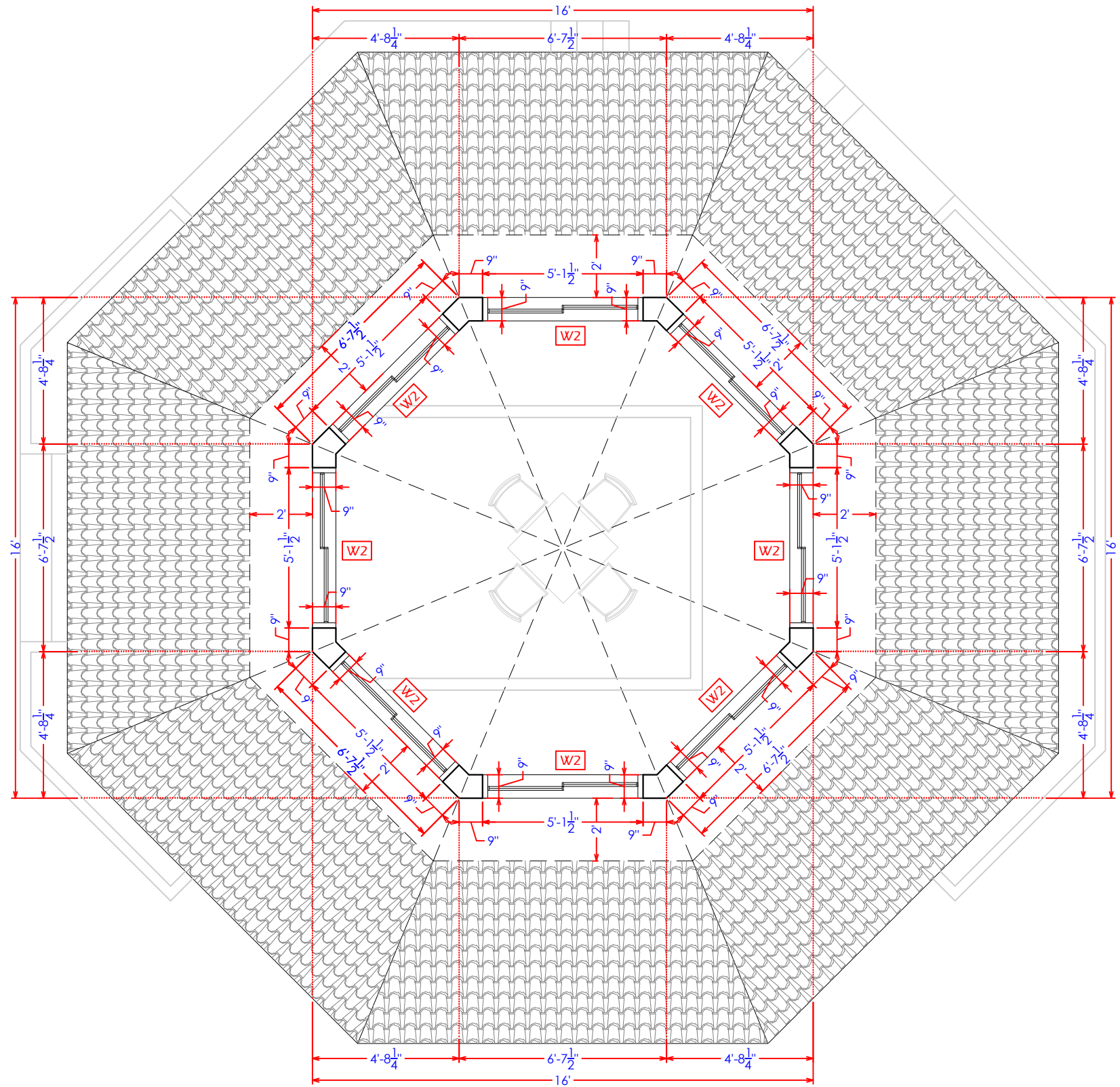


DOORS & WINDOWS SCHEDULE				
NO	TYP.	SIZE	SILL	DESCRIPTION
01	DI	4'-0"X7'-0"	0'-0"	WOODEN DOOR
02	D2	3'-6"X7'-0"	0'-0"	WOODEN DOOR
03	D3	3'-0"X7'-0"	0'-0"	WOODEN DOOR
04	D4	2'-3"X7'-0"	0'-0"	PVC DOOR
05	W1	4'-7 <sup>1</sup> / <sub>8</sub> "X2'-7 <sup>1</sup> / <sub>4</sub> " X 7'-0"	0'-0"	GLASS WINDOW
06	W2	5'-1 <sup>1</sup> / <sub>2</sub> " X 1'-6"	-	GLASS WINDOW
07	W3	4'-0"X3'-6"	3'-6"	GLASS WINDOW
08	W4	2'-0"X2'-0"	5'-0"	GLASS WINDOW
LEGEND				
09	C.H.	CLEAR HEIGHT (Finished Floor To Bottom Of Slab)		
10	G.L.	GROUND LEVEL		
11	F.F.L.	FINISHED FLOOR LEVEL		

**A CAFETERIA LEVELS PLAN**  
A-503 Covered Area Of Flat Slab: 427 SFT.

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		WORLD BANK								Drawn	MMP
										Checked	MMP
										Approved	PMDFC
										Scale	As Shown
			Project						Drawing No.	Rev No:	0
			Punjab Cities Program (PCP)						MMP-1074P01-JHE-PARK-TYP-CF-AR-503		





**A CAFETERIA SECTIONAL PLAN AT B-B**  
A-504 Covered Area Of 2nd Canopy : 331 SFT.

DOORS & WINDOWS SCHEDULE				
NO	TYP.	SIZE	SILL	DESCRIPTION
01	DI	4'-0"X7'-0"	0'-0"	WOODEN DOOR
02	D2	3'-6"X7'-0"	0'-0"	WOODEN DOOR
03	D3	3'-0"X7'-0"	0'-0"	WOODEN DOOR
04	D4	2'-3"X7'-0"	0'-0"	PVC DOOR
05	W1	4'-7 1/8"+2'-7 1/4" X 7'-0"	0'-0"	GLASS WINDOW
06	W2	5'-1 1/2" X 1'-6"	-	GLASS WINDOW
07	W3	4'-0"X3'-6"	3'-6"	GLASS WINDOW
08	W4	2'-0"X2'-0"	5'-0"	GLASS WINDOW
LEGEND				
09	C.H.	CLEAR HEIGHT (Finished Floor To Bottom Of Slab)		
10	G.L.	GROUND LEVEL		
11	F.F.L.	FINISHED FLOOR LEVEL		

Drawing file path & name: \\server\Public\Noor\Nakla\1\Kola Gufon Park\Typical Drawings for Jhelum\03Typ\_Cf-AR-501 To A-507 Cafeteria Detail

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042-36292525-7  
042-36292528  
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GOVERNMENT OF PUNJAB  
Punjab Municipal Development  
Fund Company  
Department (PMDFC)

**Client**  
  
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Punjab Municipal Development  
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Department (PMDFC)

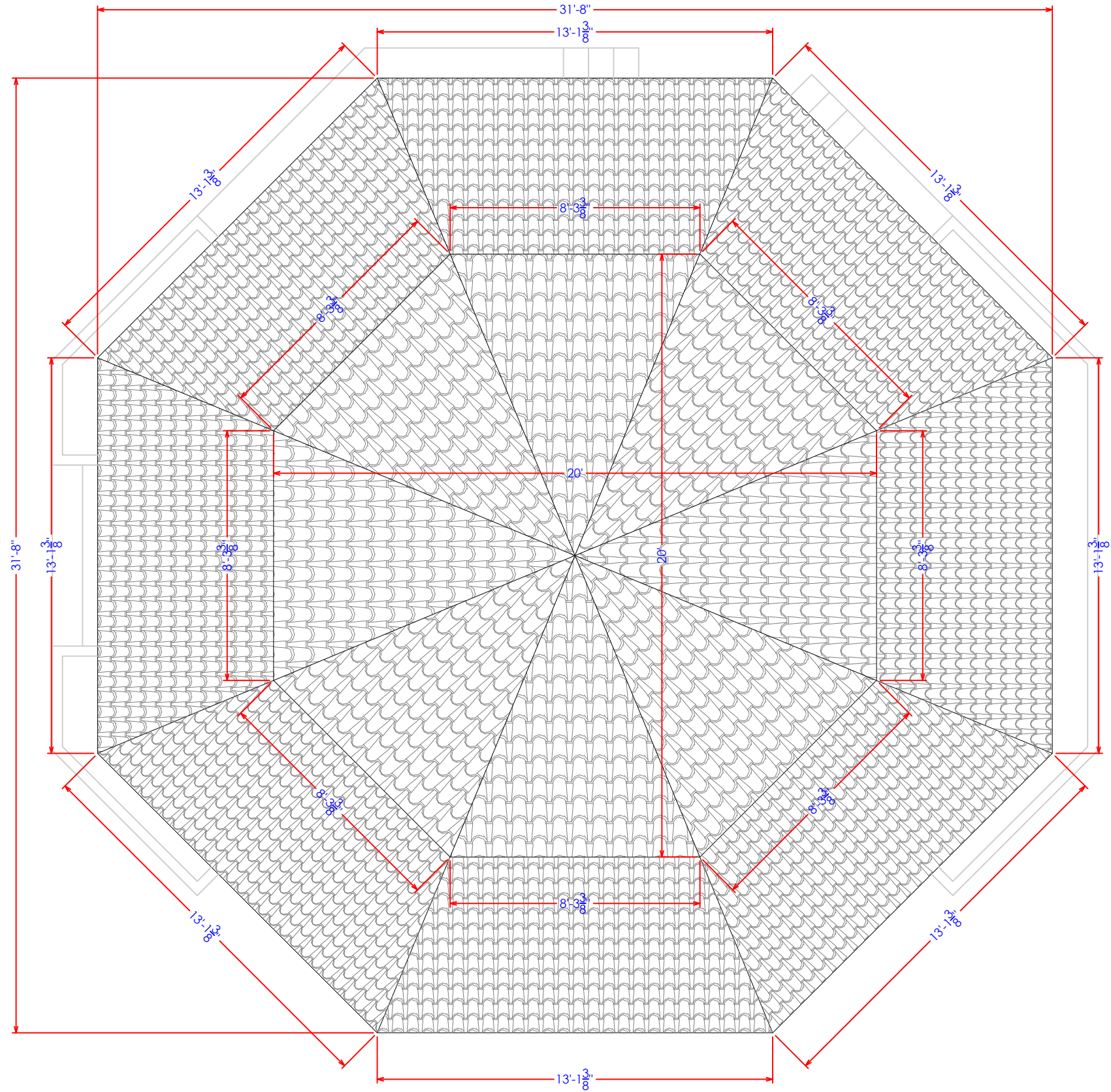
**Financing Agency**  
WORLD BANK  
**Project**  
Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved	Title

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		Drawn	MMP
		Checked	MMP
		Approved	PMDFC
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Drawing No. MMP-1074P01-JHE-PARK-TYP-CF-AR-504		Rev No:	0



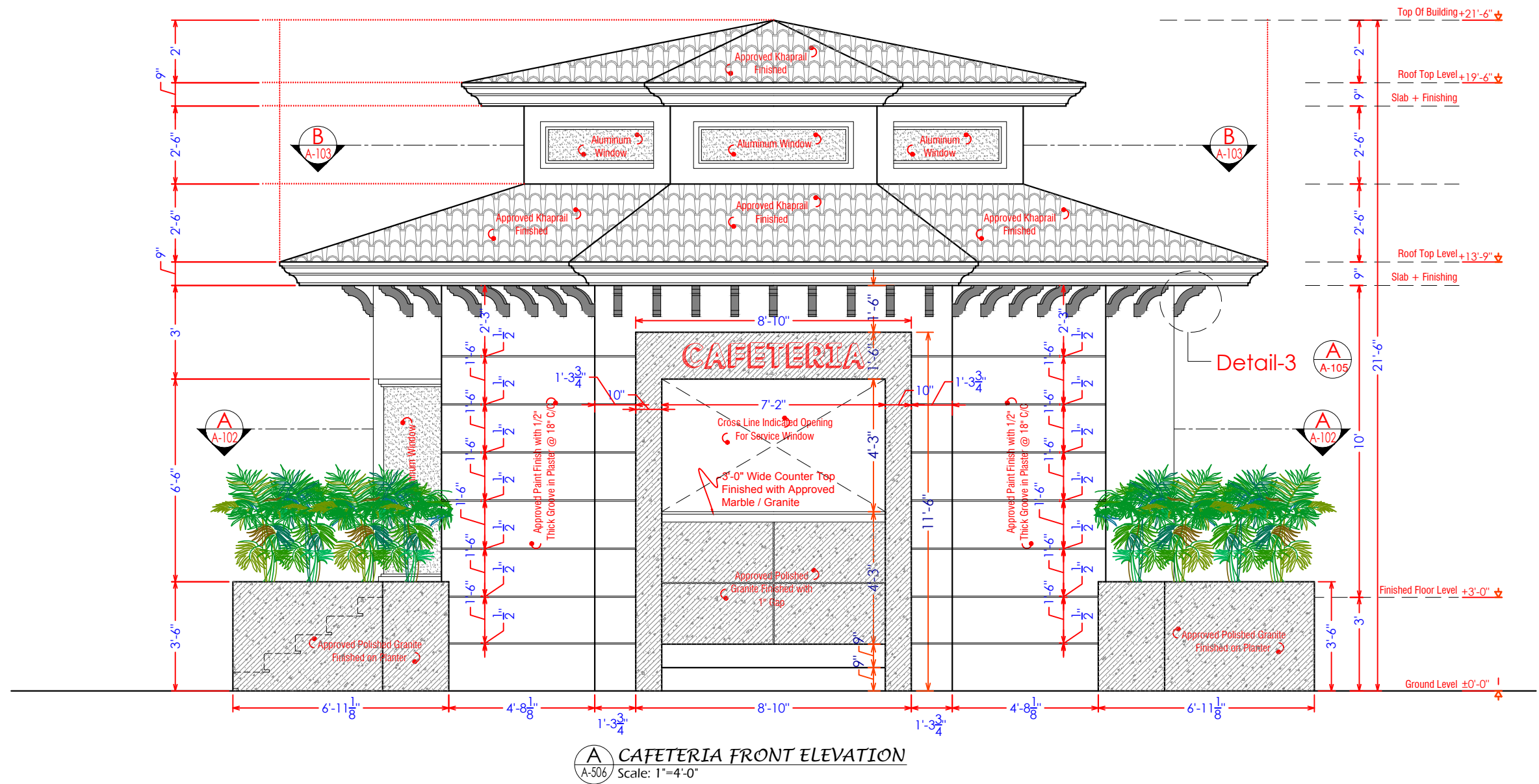
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**A CAFETERIA ROOF TOP PLAN**  
Covered Area Of 1st & 2nd Canopy : 950 SFT.

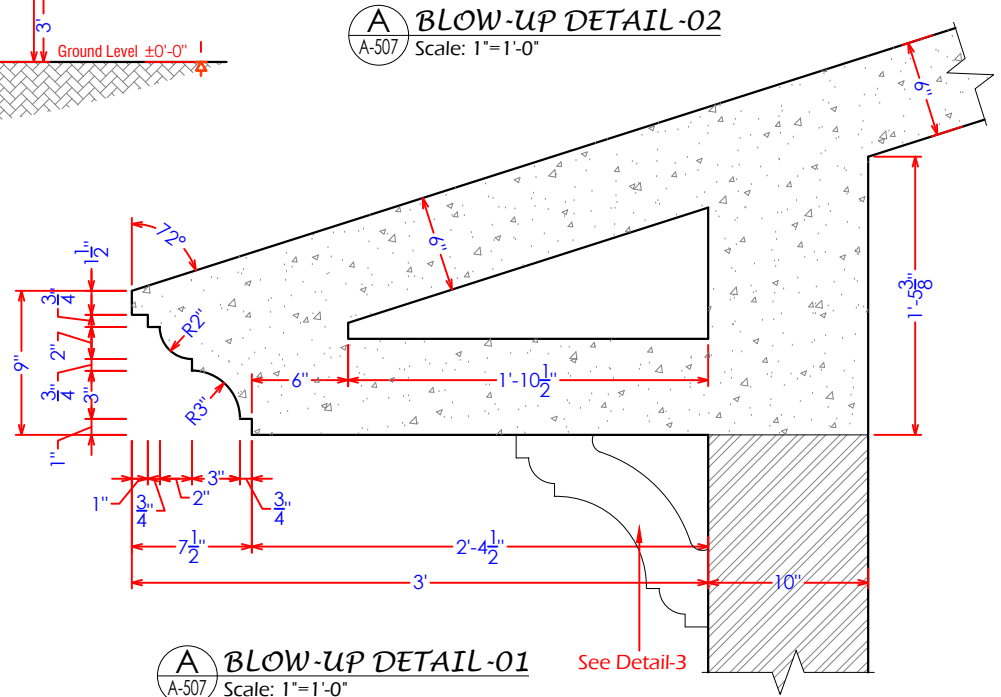
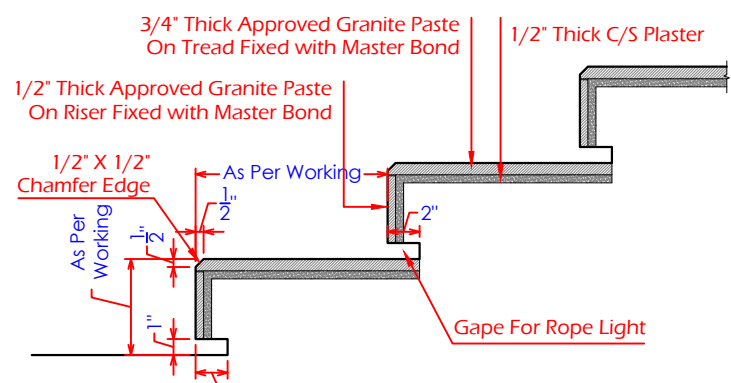
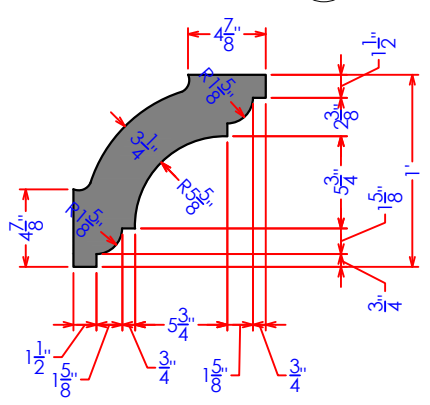
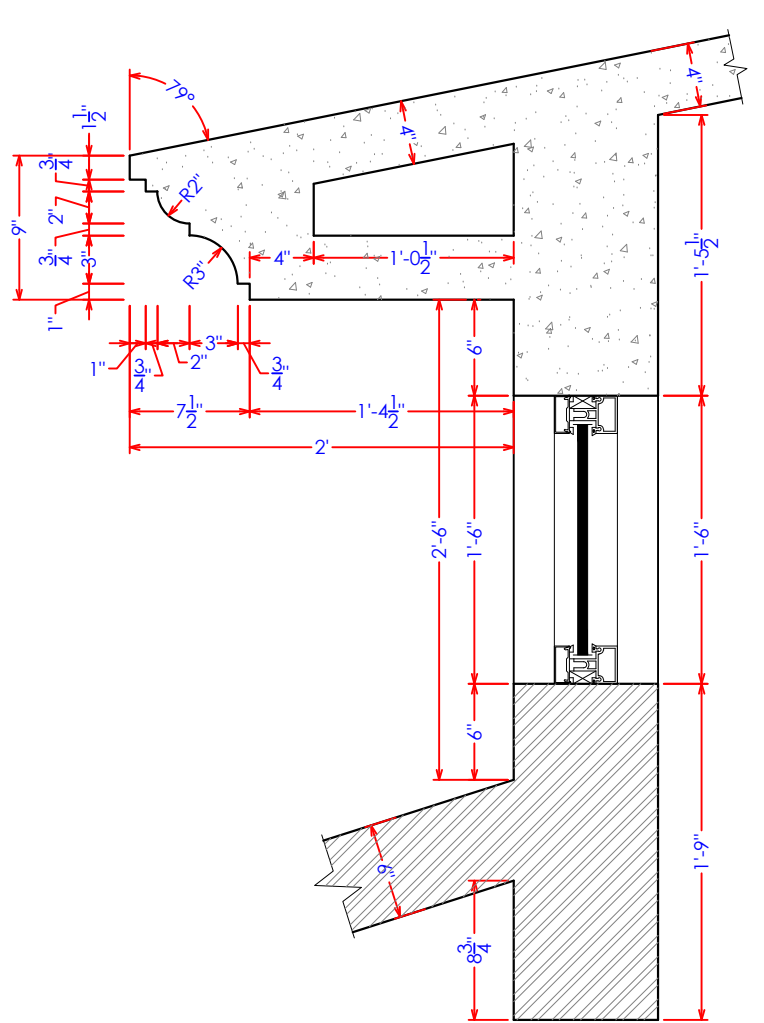
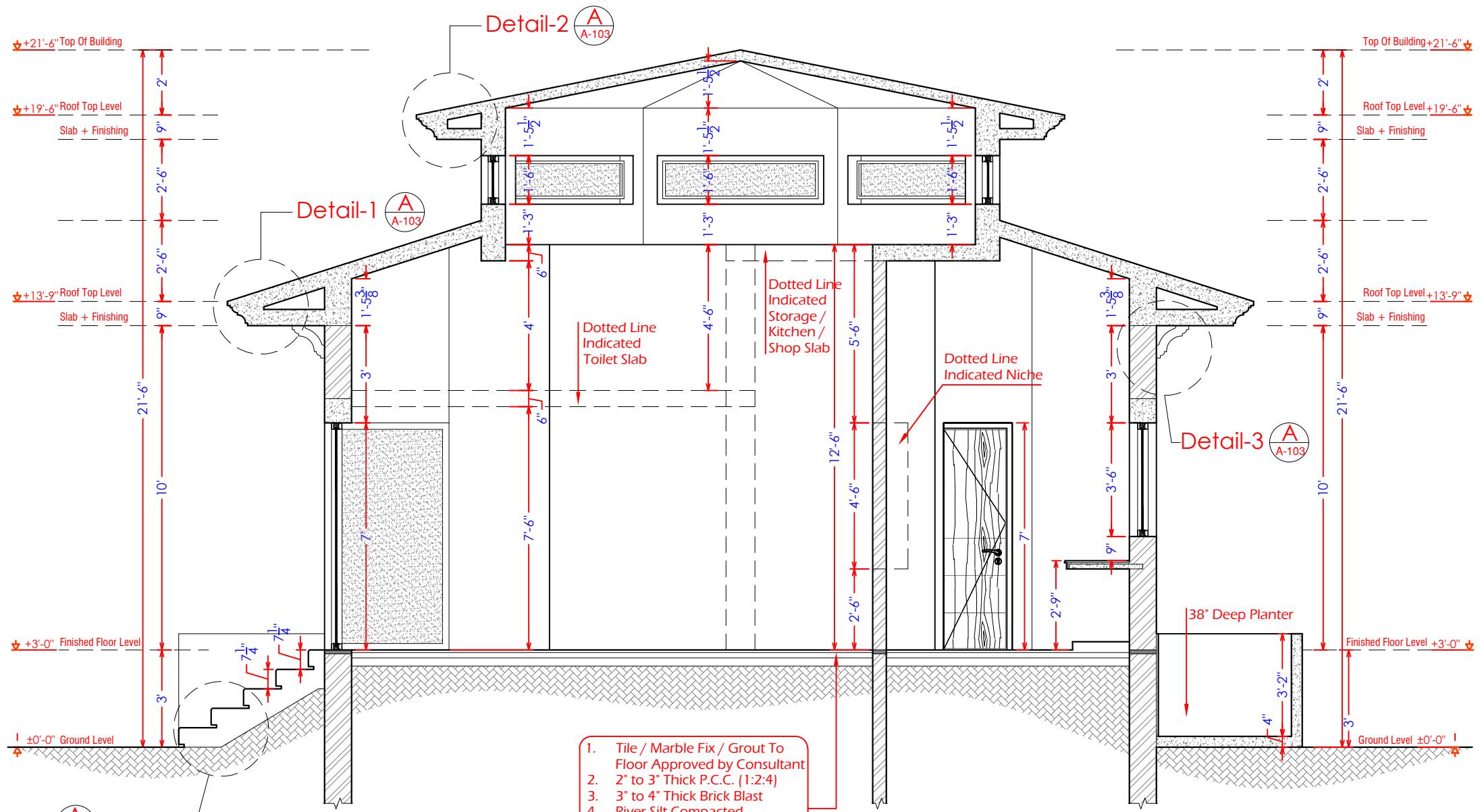
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									Approved	PMDFC
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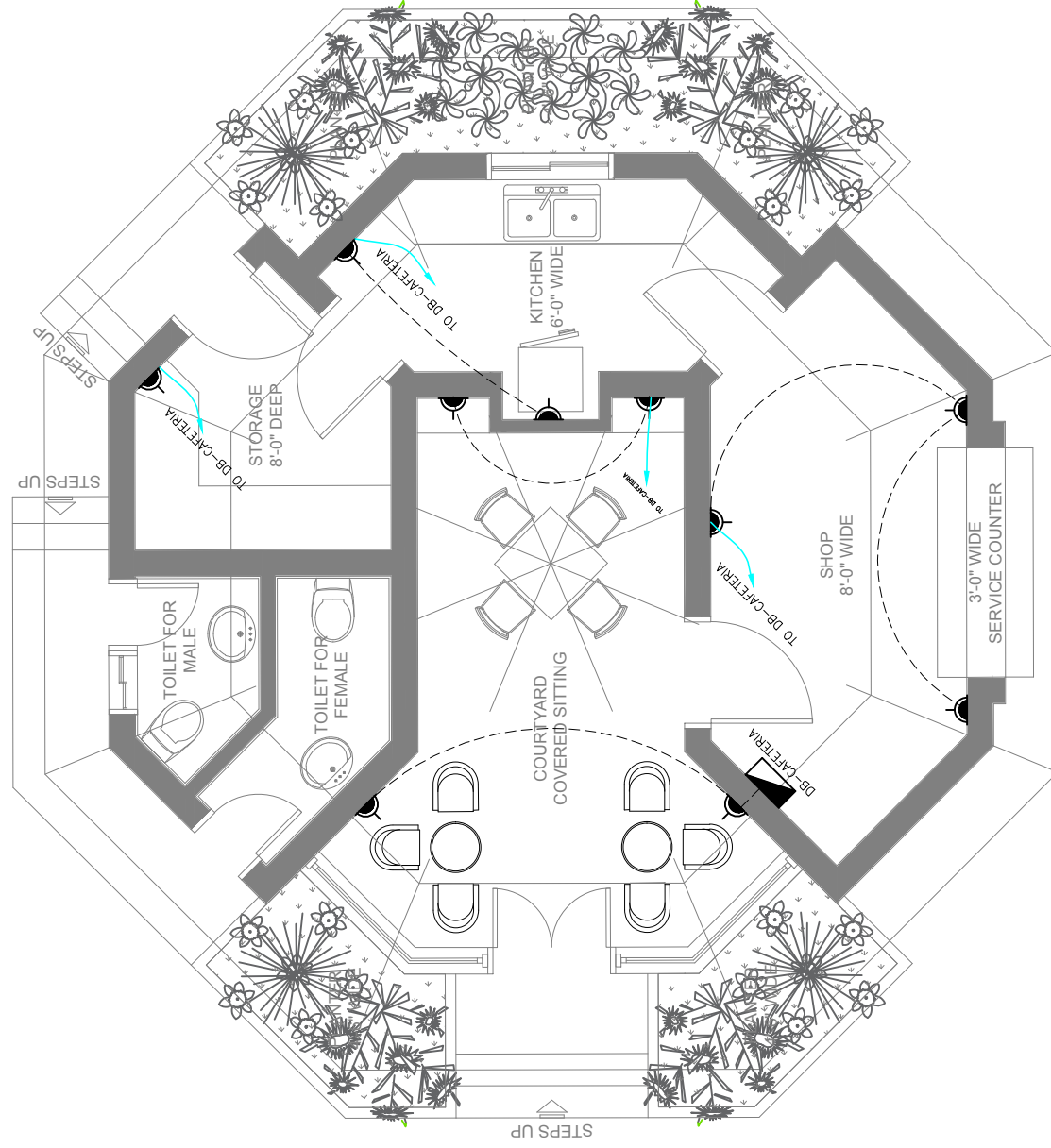
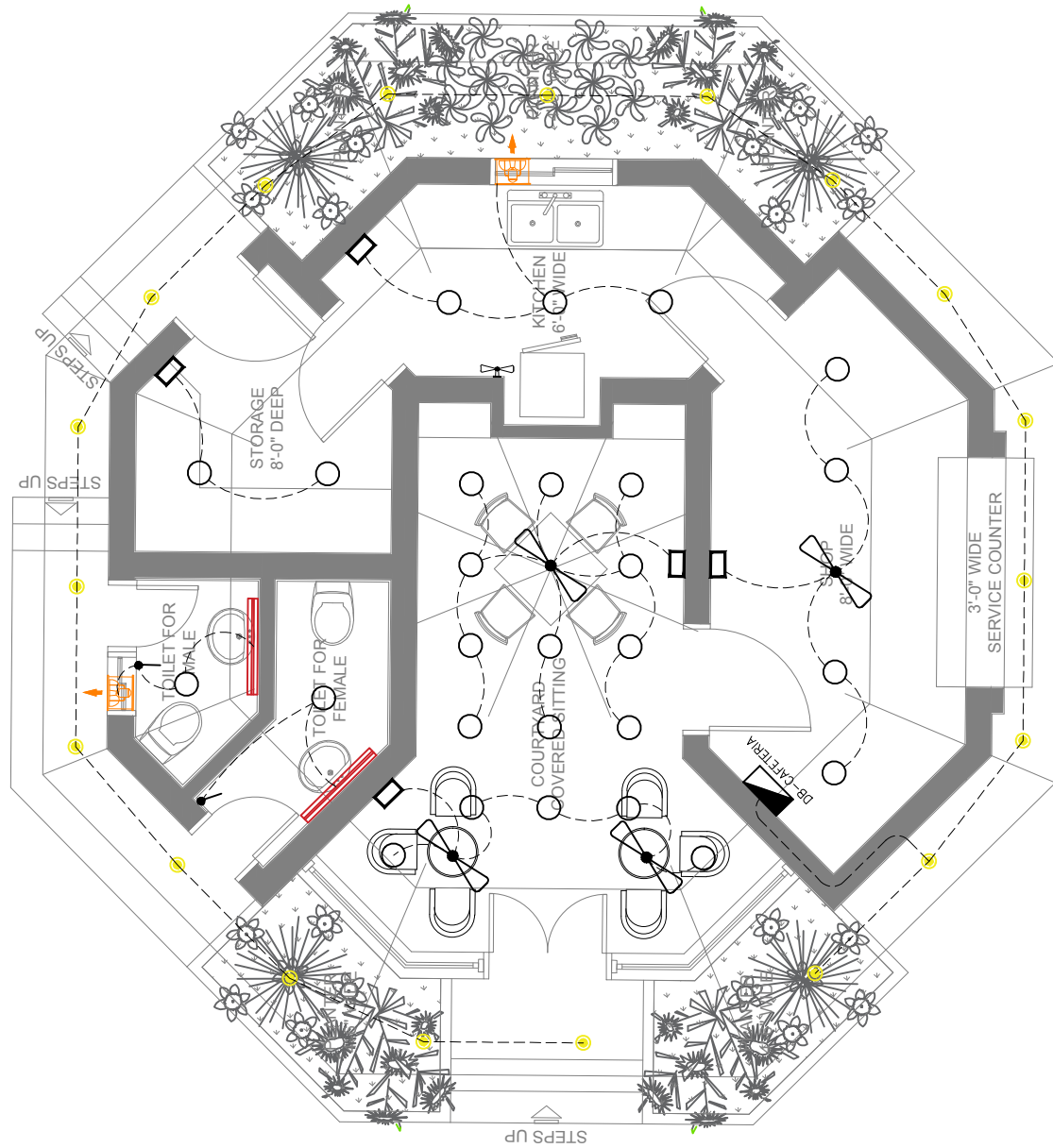




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									Checked	MMP
									Approved	PMDFC
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Drawing file path & name: \\server\Public\Noreem Malik\1. Koto Gufon Park\Typical Electrical dwgs at Jhelum\MMP-1074P01-JHE-PARK-TYP-CF-AR-551



#### LEGEND CAFETERIA LIGHTING

Sr/No	NAME	SYMBOL
01	10 w led DL (Recessed Type)	
02	5 w led DL (Recessed Type)	
03	8 w Led Vanity Light	
04	Exhaust Fan	
05	5 Gang one-way Switch	
06	2 Gang one-way Switch	
07	8 w Led Vanity Light	
08	8 w Led Vanity Light	

#### LEGEND CAFETERIA POWER

Sr/No	NAME	SYMBOL
01	15 AMP Switch Socket	
02	Cafeteria distribution box (Recessed Type)	

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**MMP**  
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Department (PMDFC)

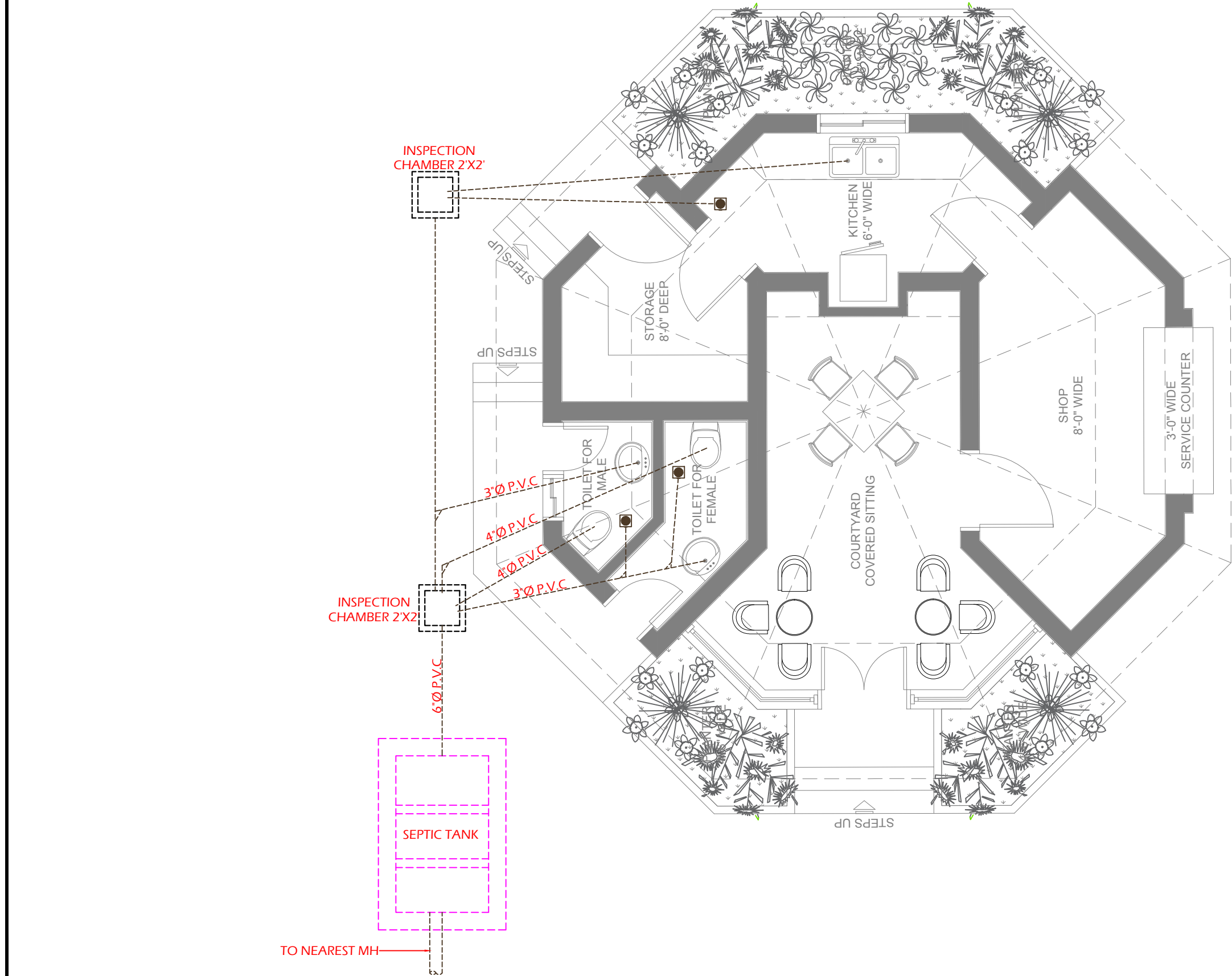
**Financing Agency**  
WORLD BANK  
**Project**  
Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved




**Title**  
**ELECTRICAL LIGHTING & POWER  
LAYOUT PLAN**  
Drawing No.  
MMP-1074P01-JHE-PARK-TYP-CF-AR-551

Designed	MMP
Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale	As Shown
Rev No:	0

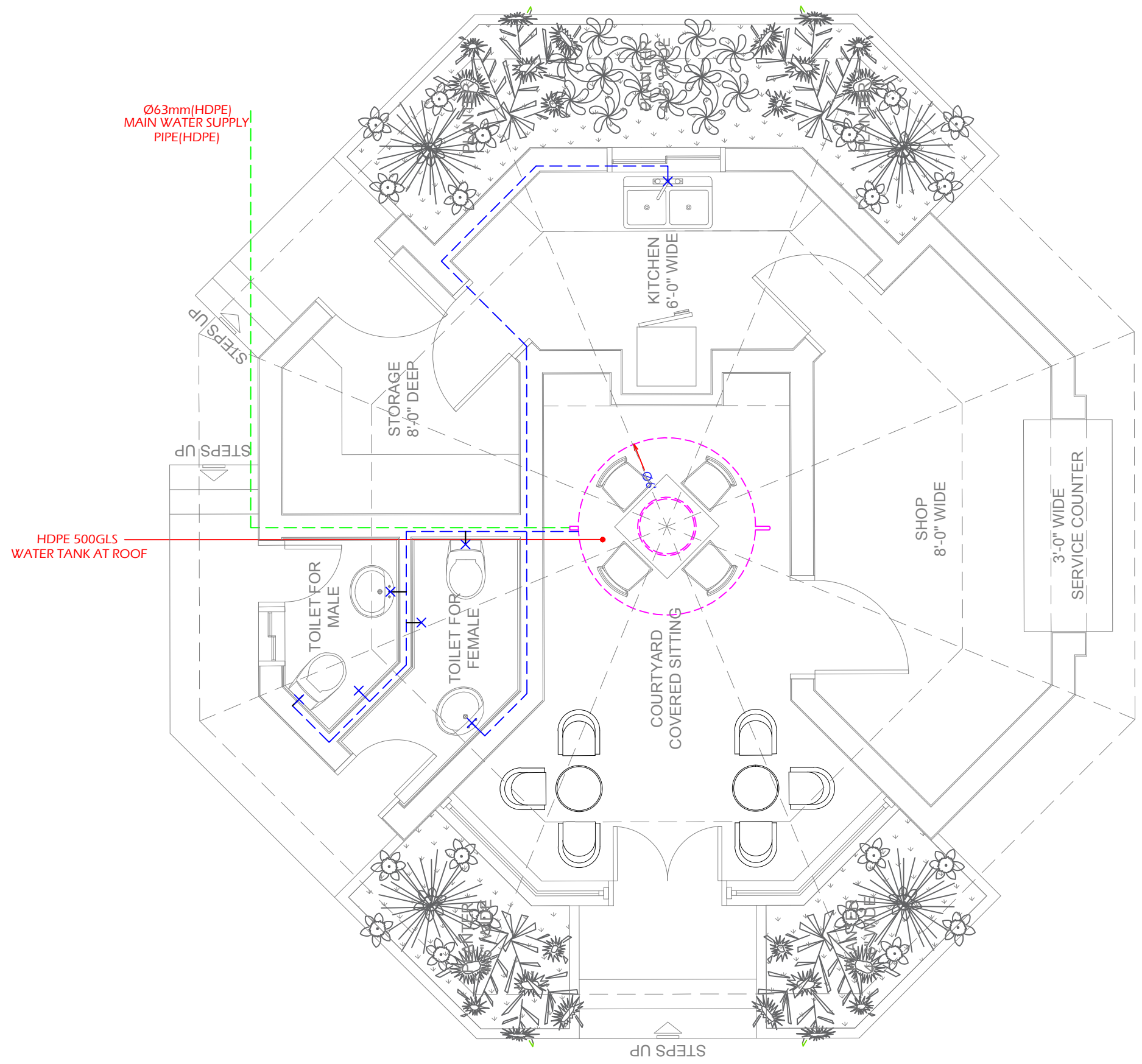
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LEGEND	
TYPE	DESCRIPTION
	SEWER PIPE (PVC)

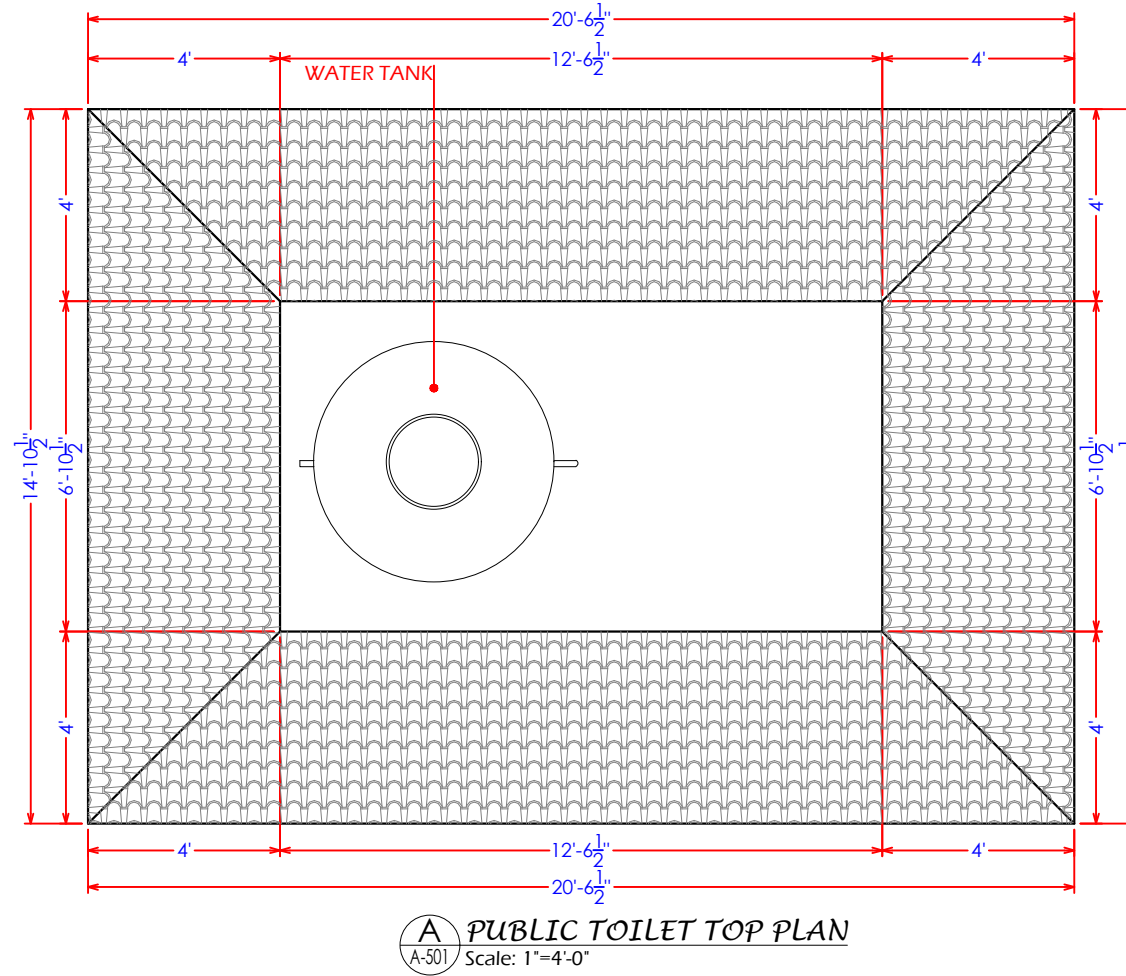
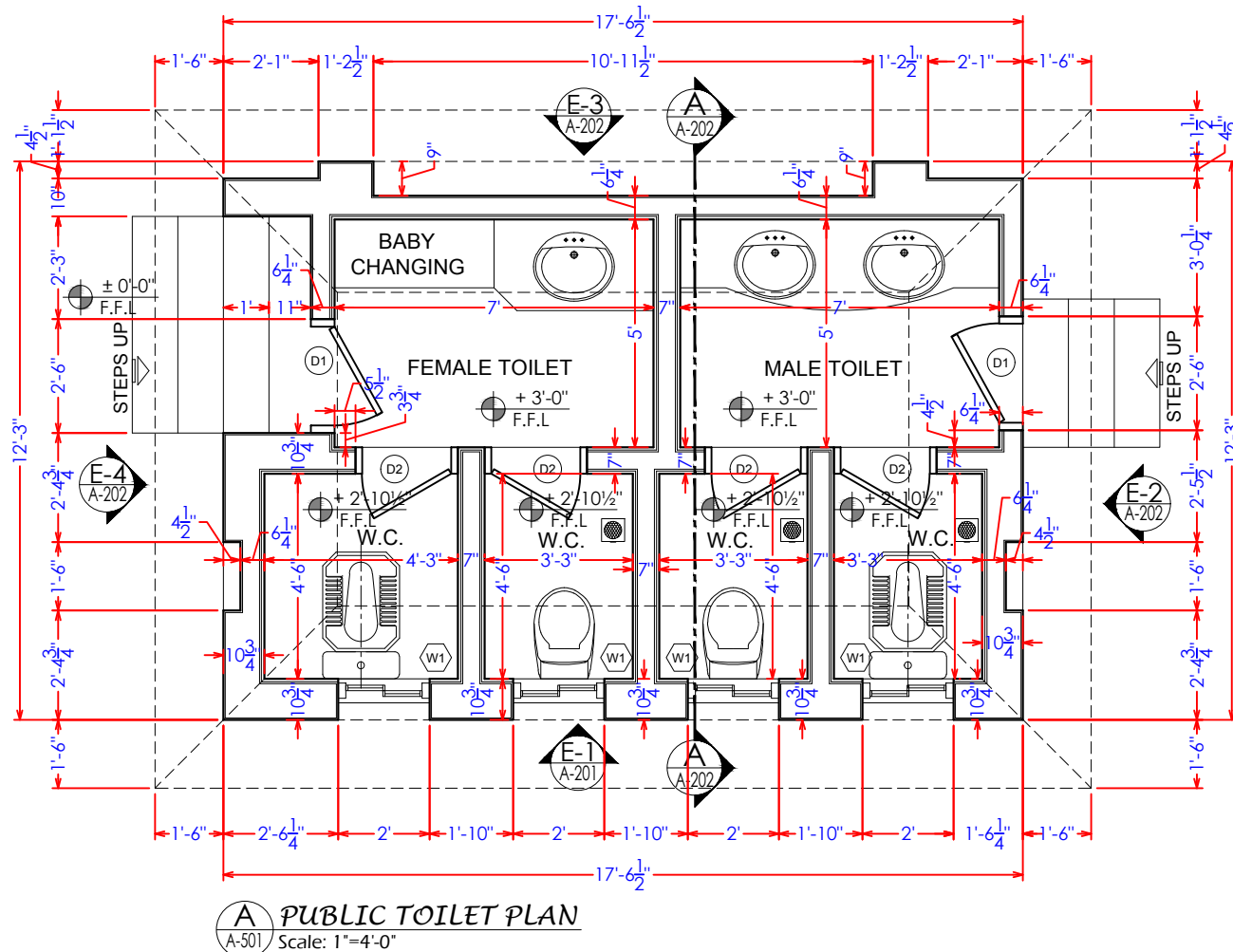
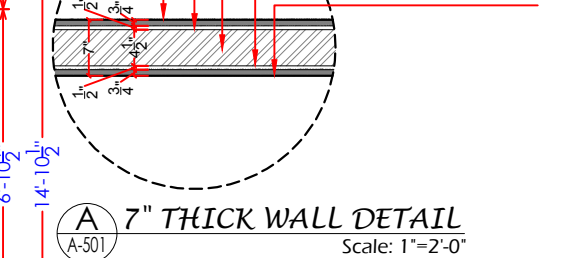
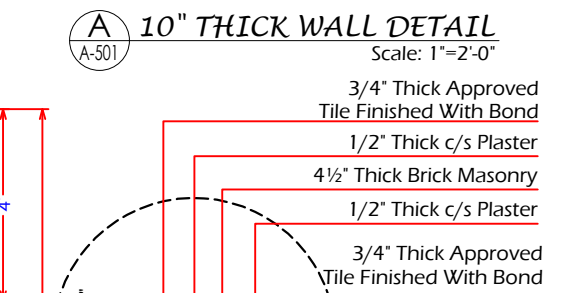
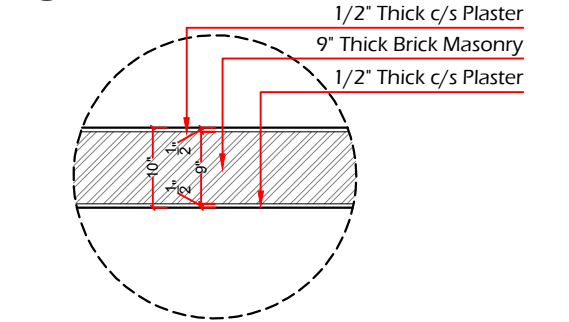
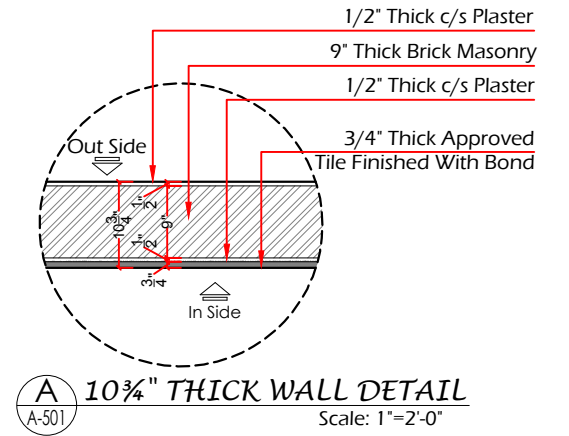
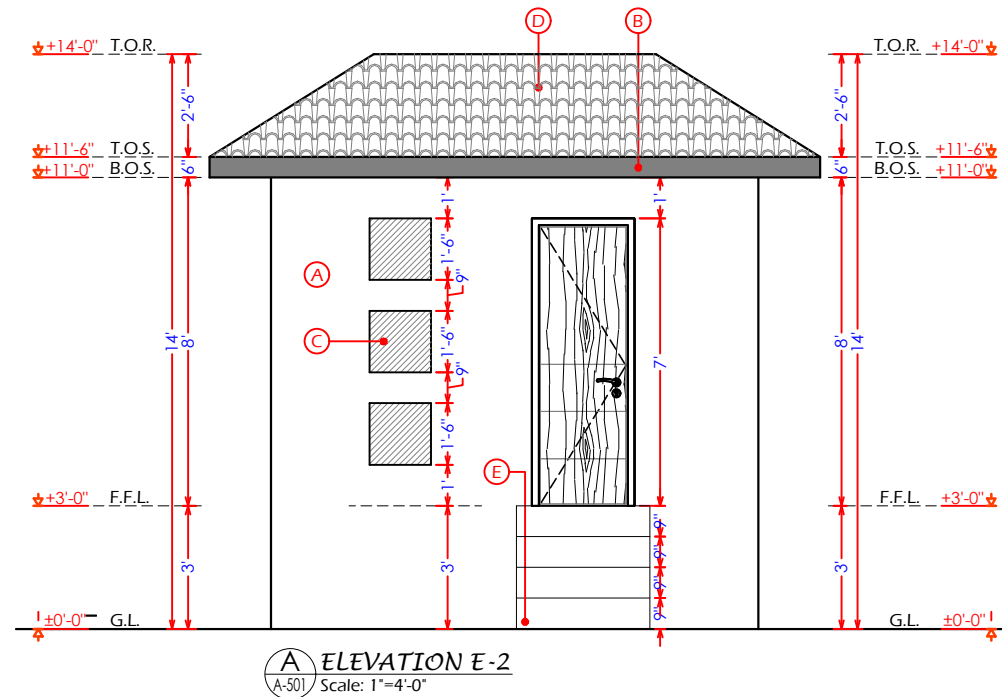
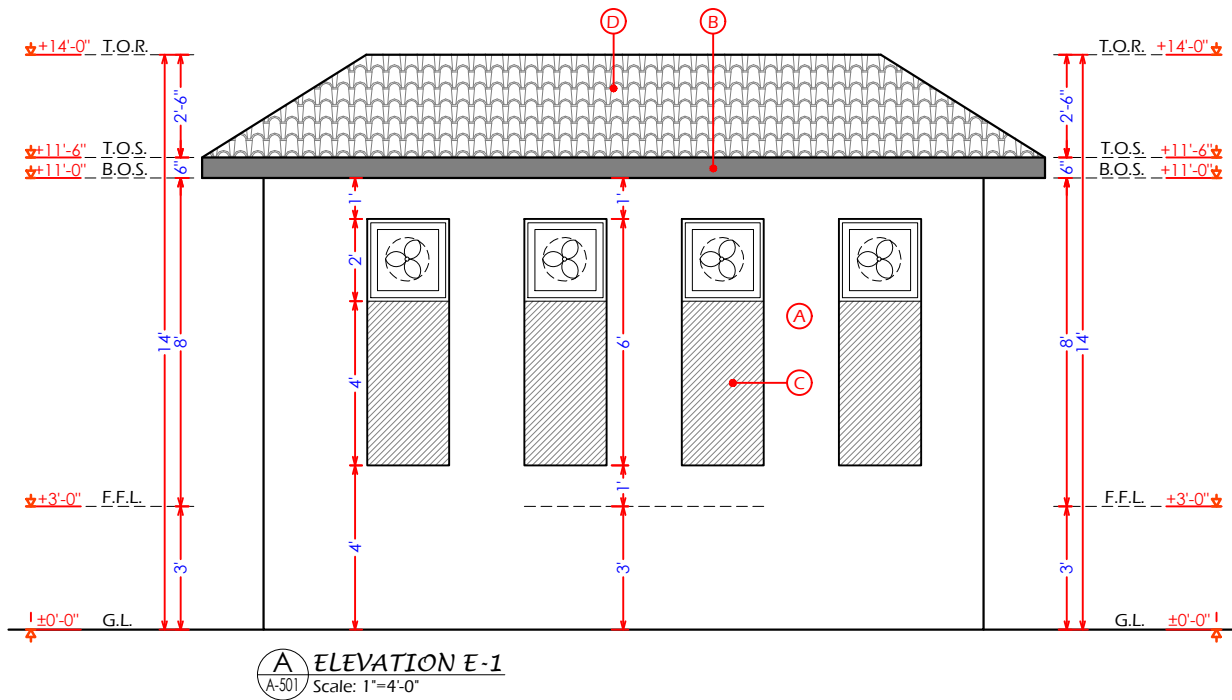
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									Drawn	MMP	
									Checked	MMP	
									Approved	PMDFC	
									Scale	As Shown	
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143											






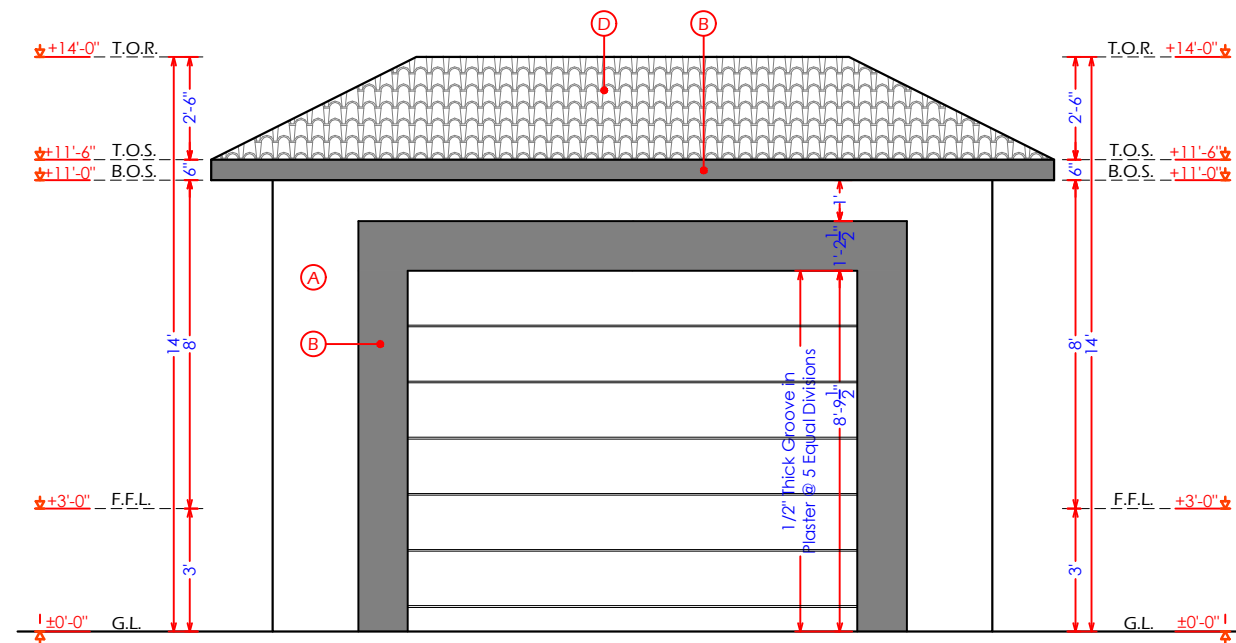


LEGEND	
TYPE	DESCRIPTION
	MAIN WATER SUPPLY PIPE (HDPE)
	WATER PIPE (HDPE)

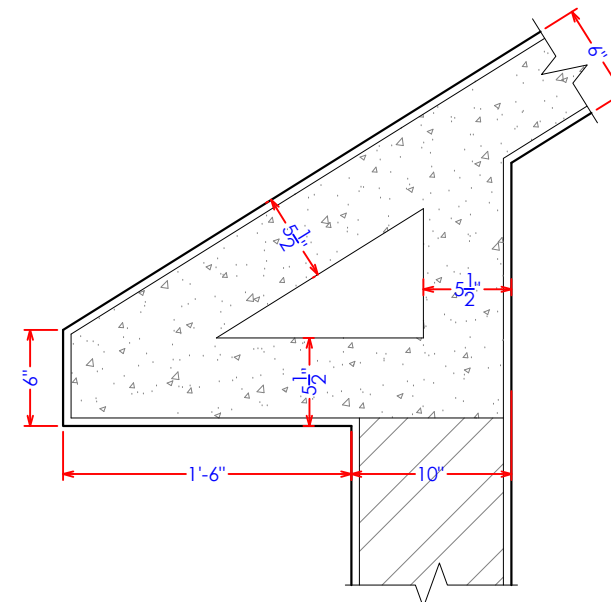
<div>Consultants</div> <div><div>CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292525-7 cdc.mmp@mmpakistan.com http://www.mmpakistan.com</div></div>	<div>Client</div> <div><div>GOVERNMENT OF PUNJAB</div><div><div>HELP BUILD PMDFC HEALTHY CITIES</div></div><div>Punjab Municipal Development Fund Company Department (PMDFC)</div></div>	Financing Agency	Rev.	Date	Description	Checked	Approved	<div>Title</div> <div>WATER SUPPLY LAYOUT PLAN.</div> <div>Drawing No.</div> <div>MMP-1074P01-JHE-PARK-TYP-CF-AR-651</div>	Designed	MMP	
		Project	WORLD BANK							Drawn	MMP
			Punjab Cities Program (PCP)							Checked	MMP
										Approved	PMDFC
										Scale	As Shown







<div>Consultants</div> <div></div> <div><div>CENTRAL DESIGN CELL</div><div>2nd Floor, CTI Building,</div><div>27-Empress Road, Lahore</div><div>042-36292525-7</div><div>042-36292528</div><div>cdc.mmp@mmpakistan.com</div><div>http://www.mmpakistan.com</div></div>	<div>Client</div> <div></div> <div>GOVERNMENT OF PUNJAB</div> <div></div> <div>Punjab Municipal Development Fund Company</div> <div>Department (PMDFC)</div>	<div>Financing Agency</div> <div>WORLD BANK</div>	Rev.	Date	Description	Checked	Approved	<div>Title</div> <div>MALE &amp; FEMALE TOILET DETAIL-01</div>	Designed	MMP
									Drawn	MMP
									Checked	MMP
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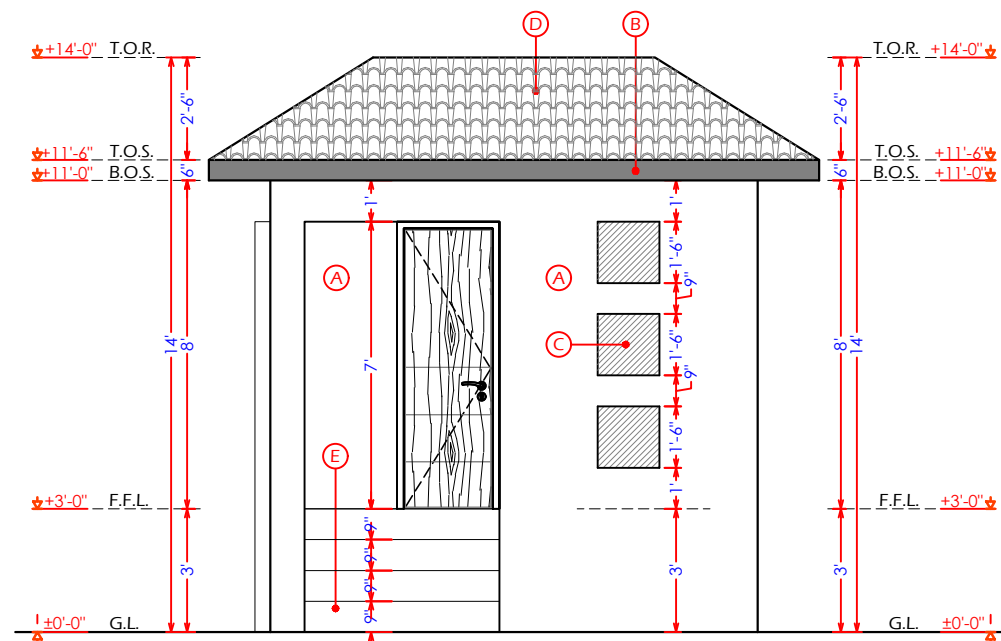


**A** ELEVATION E-3  
A-502 Scale: 1"=4'-0"

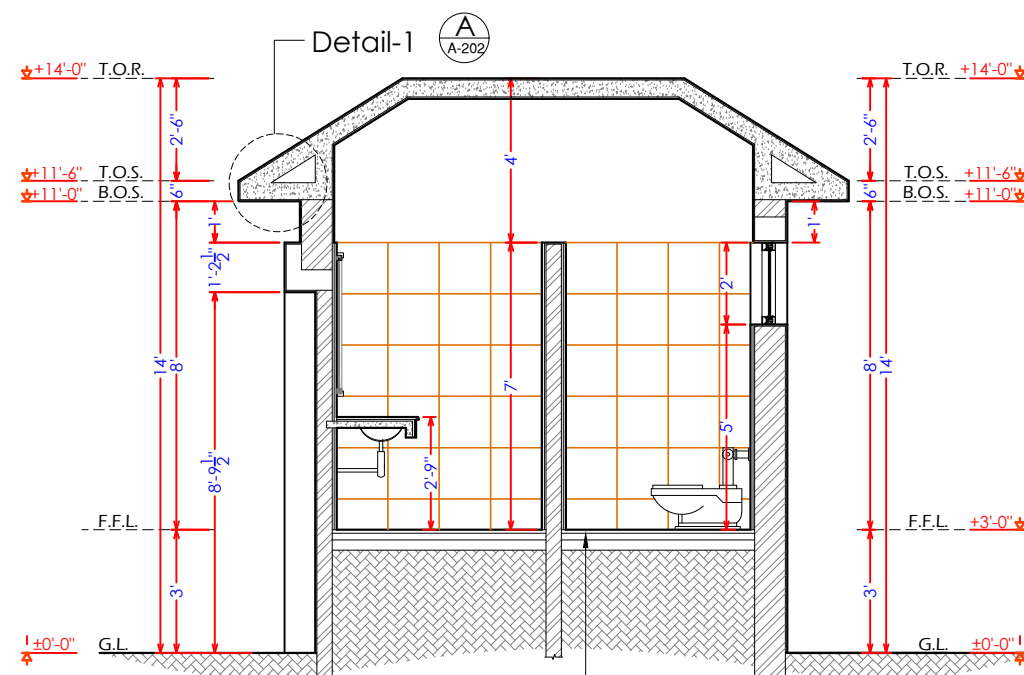


**A BLOW-UP DETAIL-01**  
A-502 Scale: 1"=1'-0"

LEGEND	
TYPE	DESCRIPTION
G.L.	GROUND LEVEL
F.F.L.	FINISHED FLOOR LEVEL
B.O.S.	BOTTOM OF SLAB
T.O.S.	TOP OF SLAB
T.O.R.	TOP OF ROOF
C.H.	CLEAR HEIGHT
	ELEVATION MARK IN PLAN
	SECTION LINE MARK IN PLAN
	LEVEL MARK IN ELEVATION
	LEVEL MARK IN PLAN
(A)	APPROVED PAINT FINISHED
(B)	APPROVED GREY PAINT FINISHED
(C)	APPROVED TILE FINISHED
(D)	APPROVED KHAPRAIL FINISHED
(E)	APPROVED GRANITE FINISHED



**A** ELEVATION E-4  
A-502 Scale: 1"=4'-0"

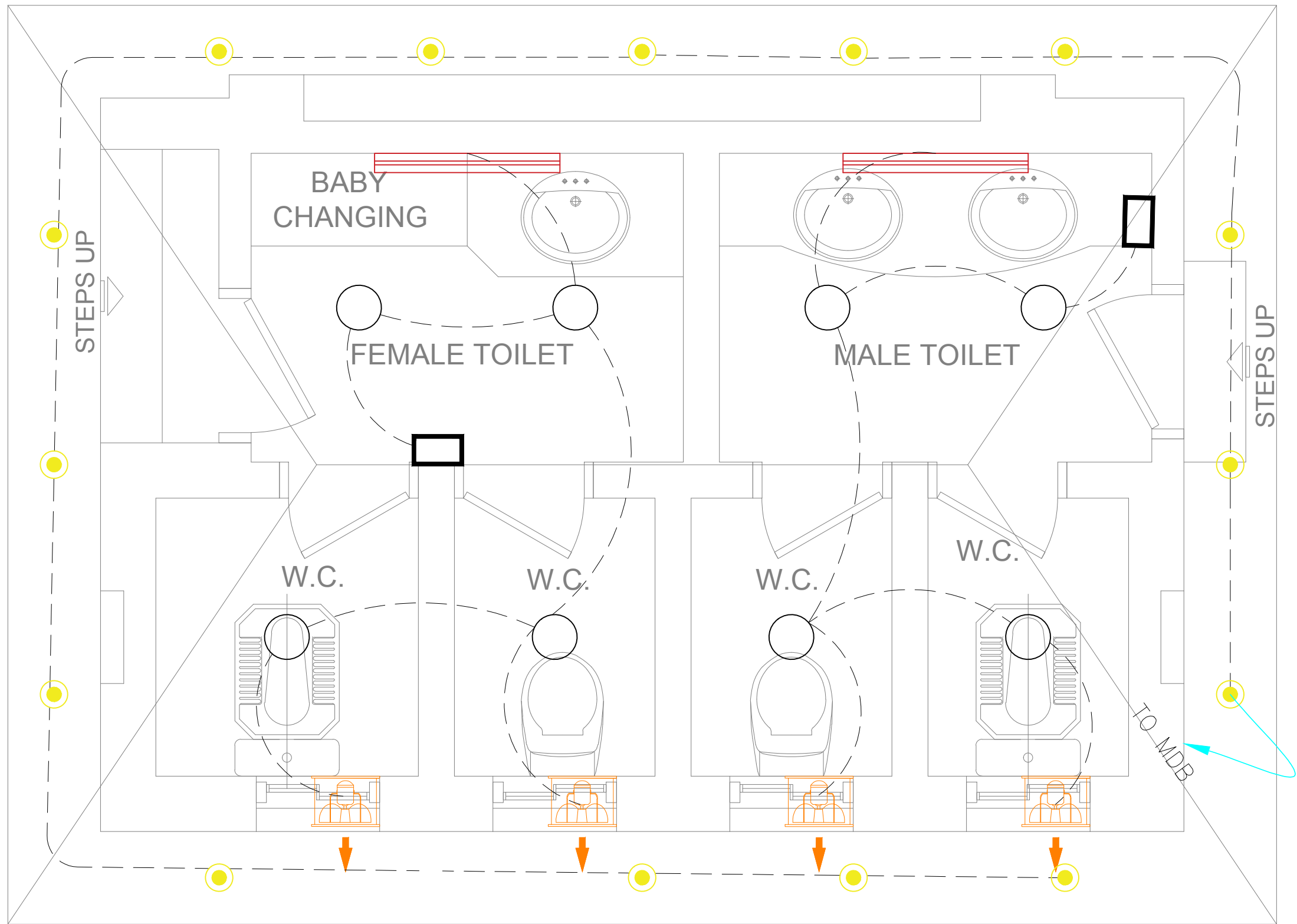


**A** SECTION AT A-A  
A-502 Scale: 1"=4'-0"

1. Tile / Marble Fix / Grout To Floor Approved by Consultant
2. 2" to 3" Thick P.C.C. (1:2:4)
3. 3" to 4" Thick Brick Blast
4. River Silt Compacted
5. Well Compacted Earth



Drawing file path & name: \\server\Public\Noreem Malik\1. Koto Gujran Park\Typical Electrical dwgs at Jhelum\MMP-1074P01-JHE-PARK-TYP-MFT-AR-551



LEGEND  
BATHROOM LIGHTING

Sr/No	NAME	SYMBOL
01	10 w led DL (Recessed Type)	○
02	5 w led DL (Recessed Type)	●
03	8 w Led Vanity Light	▬▬▬
04	Exhaust Fan	↯
05	5 Gang one-way Switch	□

Consultants

**MMP**

CENTRAL DESIGN CELL  
2nd Floor, CT1 Building,  
27-Empress Road, Lahore  
042-36292525-7  
042-36292528  
cdc.mmp@mmpakistan.com  
http://www.mmpakistan.com

Client

 **GOVERNMENT OF PUNJAB**

 Punjab Municipal Development  
Fund Company  
Department (PMDFC)

Financing Agency

WORLD BANK

Project

Punjab Cities Program (PCP)

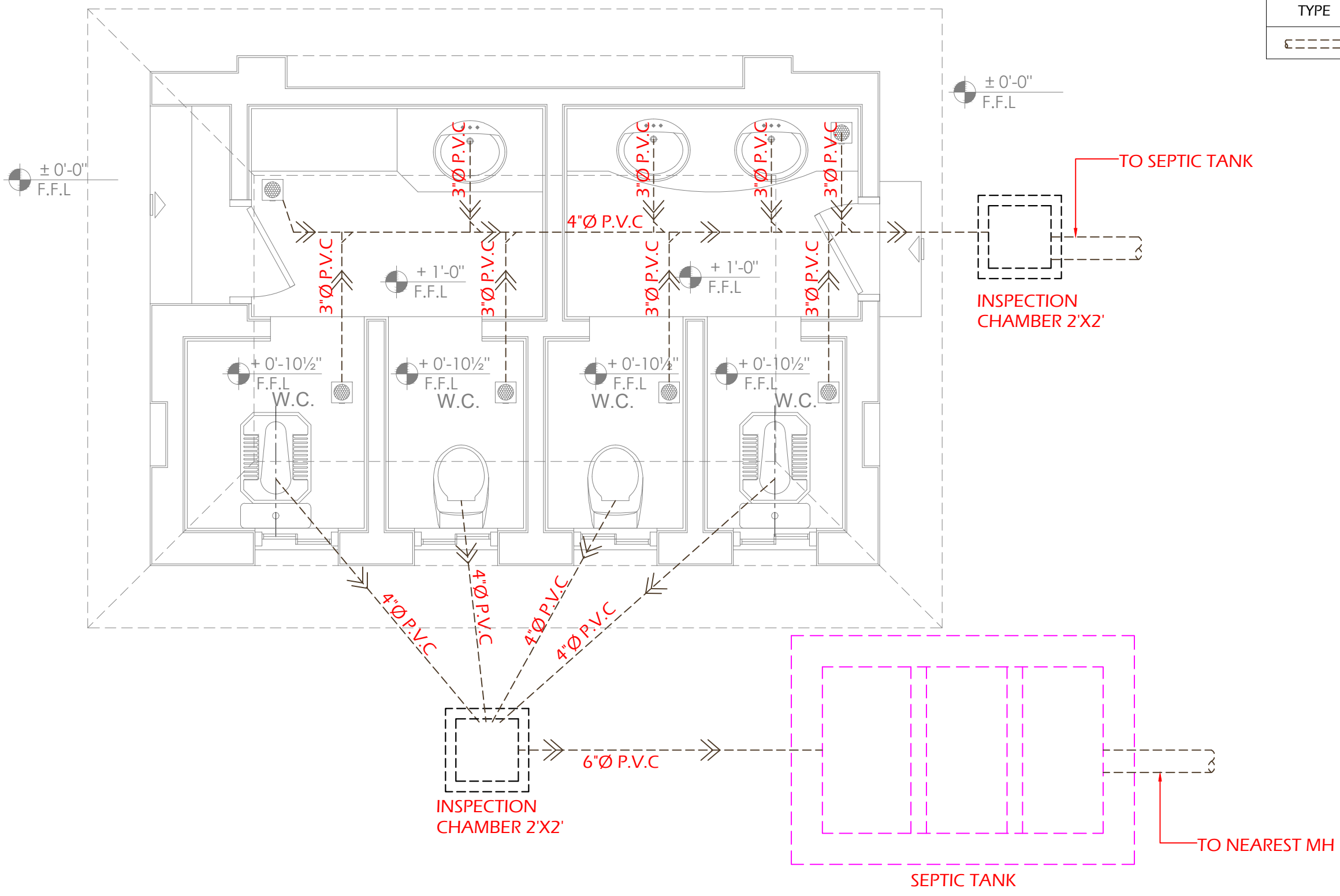
Rev.	Date	Description	Checked	Approved

Title


**ELECTRICAL LIGHTING  
LAYOUT PLAN**

Drawing No.  
MMP-1074P01-JHE-PARK-TYP-MFT-AR-551

Designed	MMP
Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale	As Shown
Rev No:	0



LEGEND	
TYPE	DESCRIPTION
	SEWER PIPE (PVC)

<div>Consultants</div> <div></div> <div>CENTRAL DESIGN CELL 2nd Floor, CTI Building, 27-Empress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com</div>	<div>Client</div> <div><div>GOVERNMENT OF PUNJAB</div><div>Punjab Municipal Development Fund Company Department (PMDFC)</div></div>	<div>Financing Agency</div> <div>WORLD BANK</div>	Rev.	Date	Description	Checked	Approved	<div>Title</div> <div>SEWERAGE LAYOUT PLAN.</div>	Designed	MMP	
										Drawn	MMP
										Checked	MMP
										Approved	PMDFC
				Project						Scale	As Shown
		Punjab Cities Program (PCP)						Drawing No. MMP-1074P01-JHE-PARK-TYP-MFT-AR-601	Rev No:	0	
				148							

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042-36292525-7  
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GOVERNMENT OF PUNJAB



Punjab Municipal Development  
Fund Company  
Department (PMDFC)

Financing Agency

WORLD BANK

Project

Punjab Cities Program (PCP)

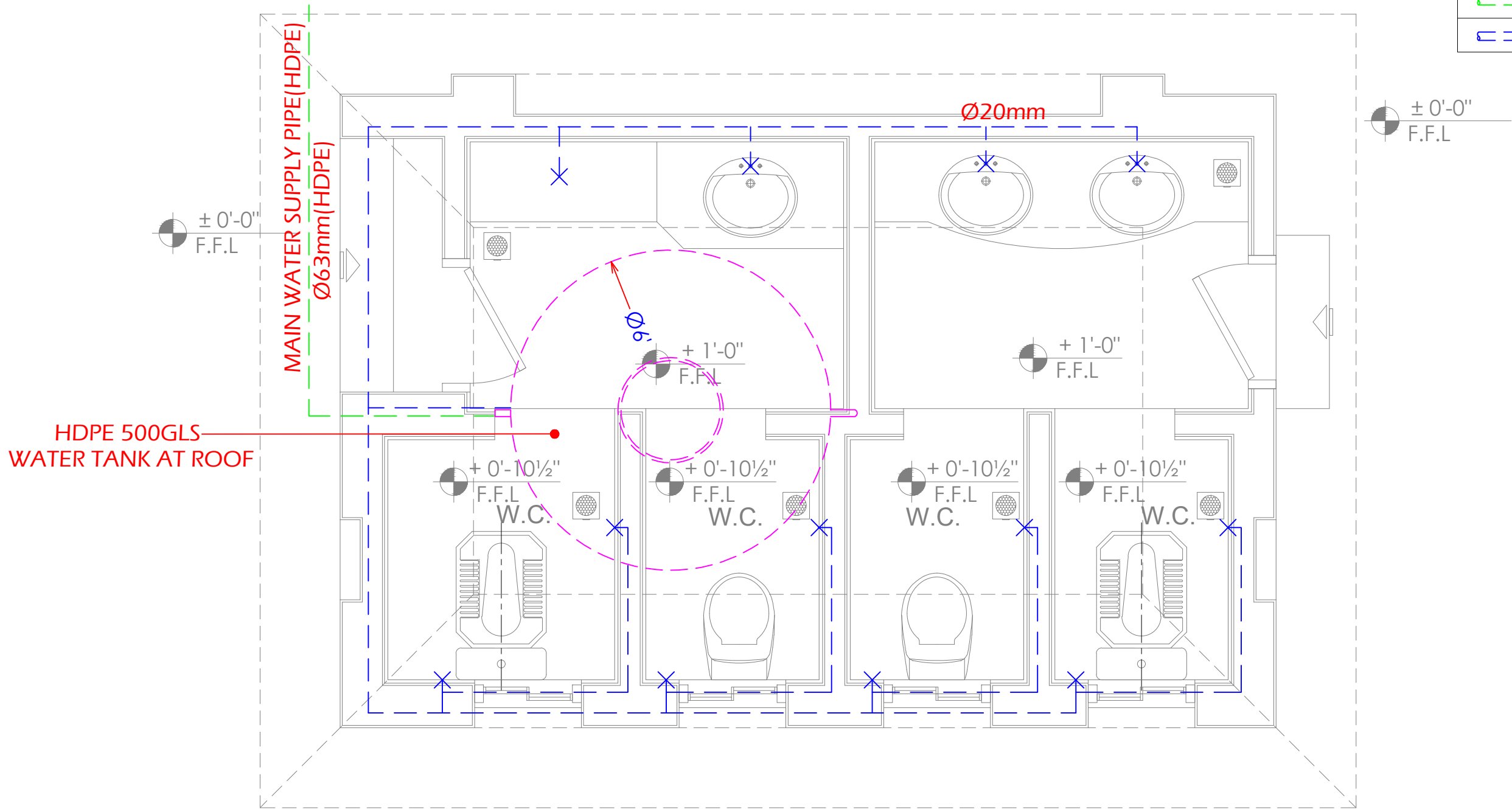
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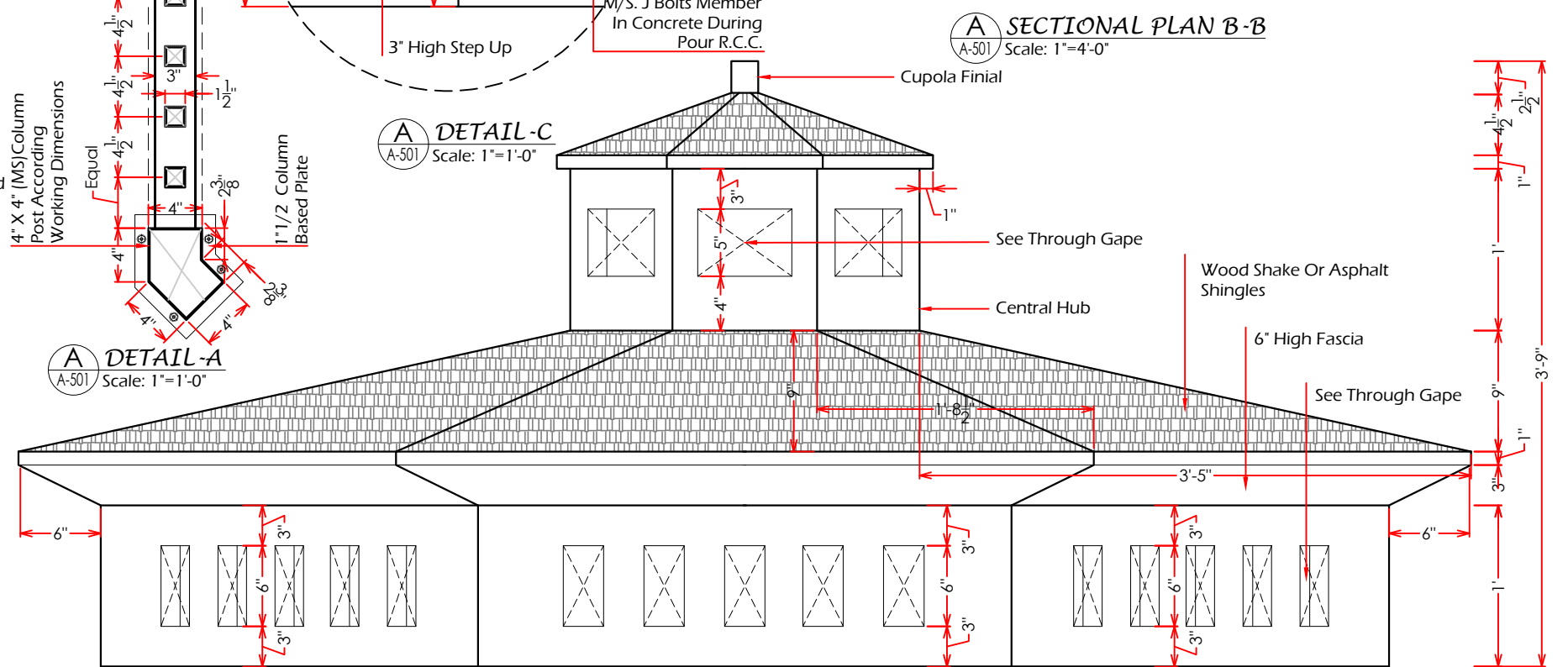
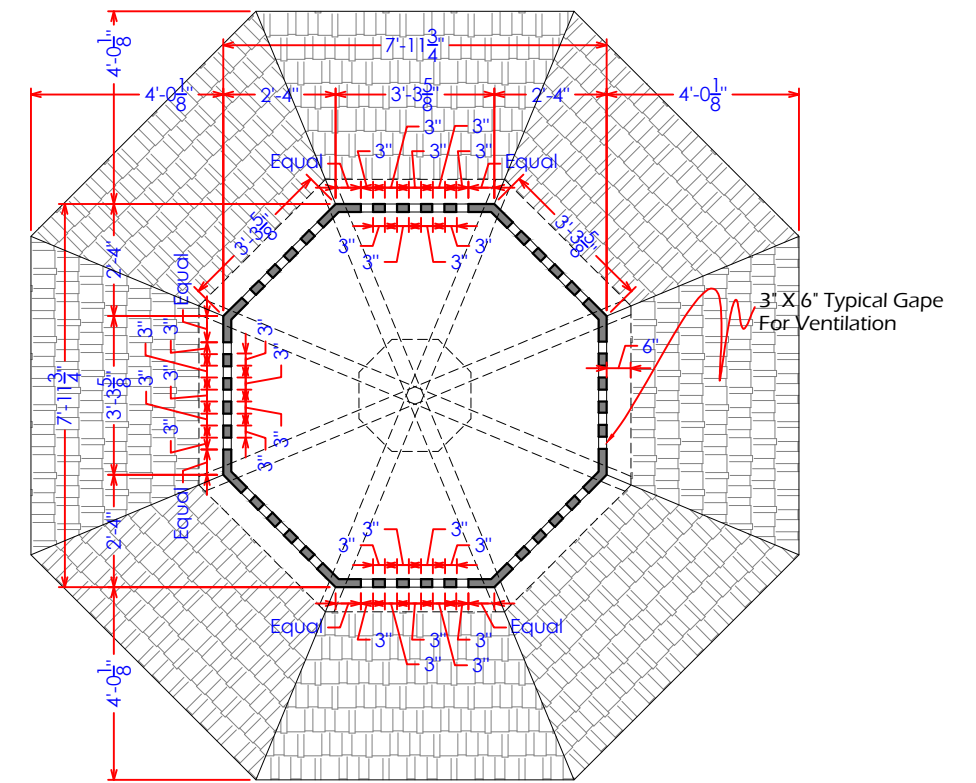
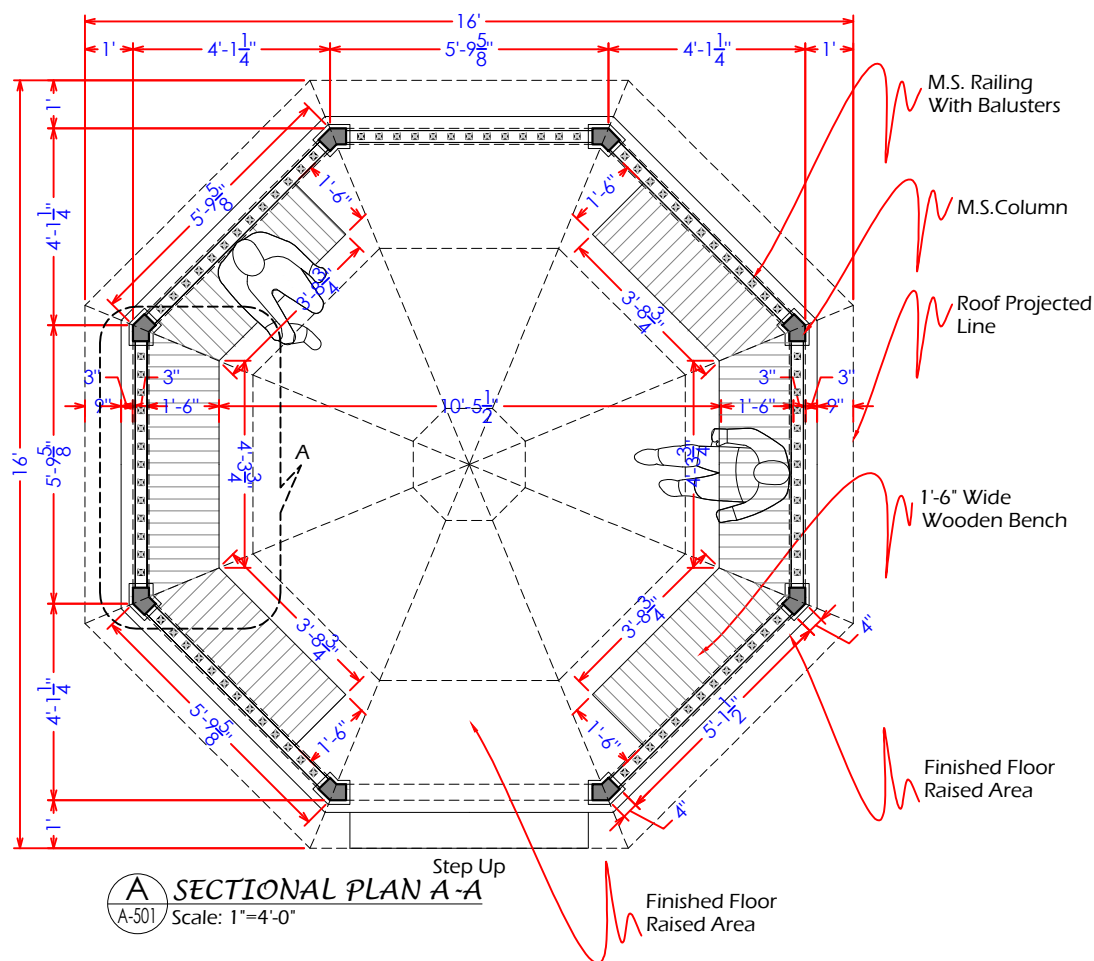
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<b>WATER SUPPLY LAYOUT PLAN.</b>
Drawing No. MMP-1074P01-JHE-PARK-TYP-MFT-AR-651

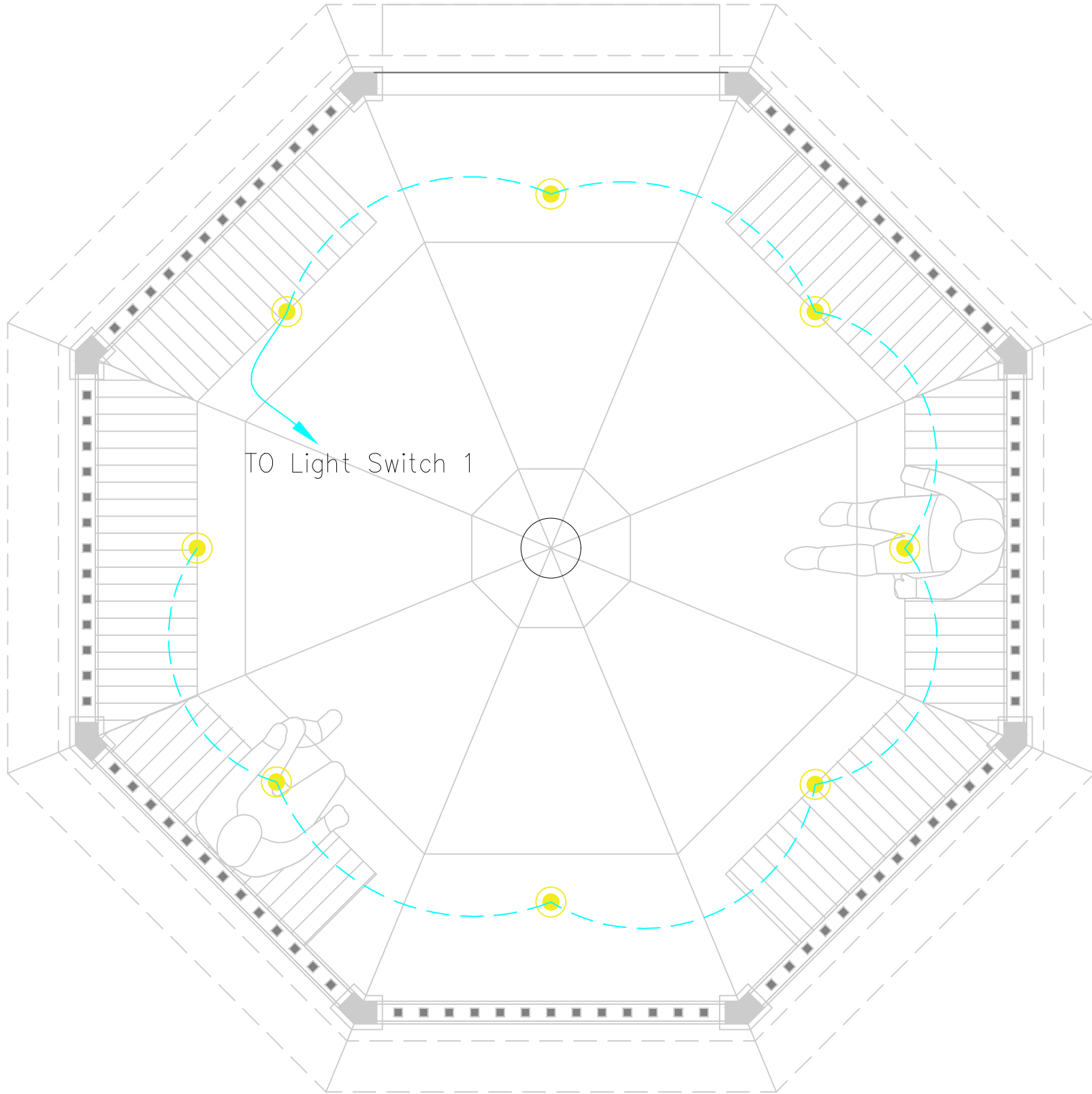
Designed	MMP
Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale	As Shown
Rev No:	0

## LEGEND

TYPE	DESCRIPTION
	MAIN WATER SUPPLY PIPE (HDPE)
	WATER PIPE (HDPE)








Sr/No	NAME	SYMBOL
01	10 w led DL (Recessed Type)	○
02	5 w led DL (Recessed Type)	●

Consultants



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042-36292528  
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GOVERNMENT OF PUNJAB



Punjab Municipal Development  
Fund Company  
Department (PMDFC)

Financing Agency

WORLD BANK

Project

Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved

Title

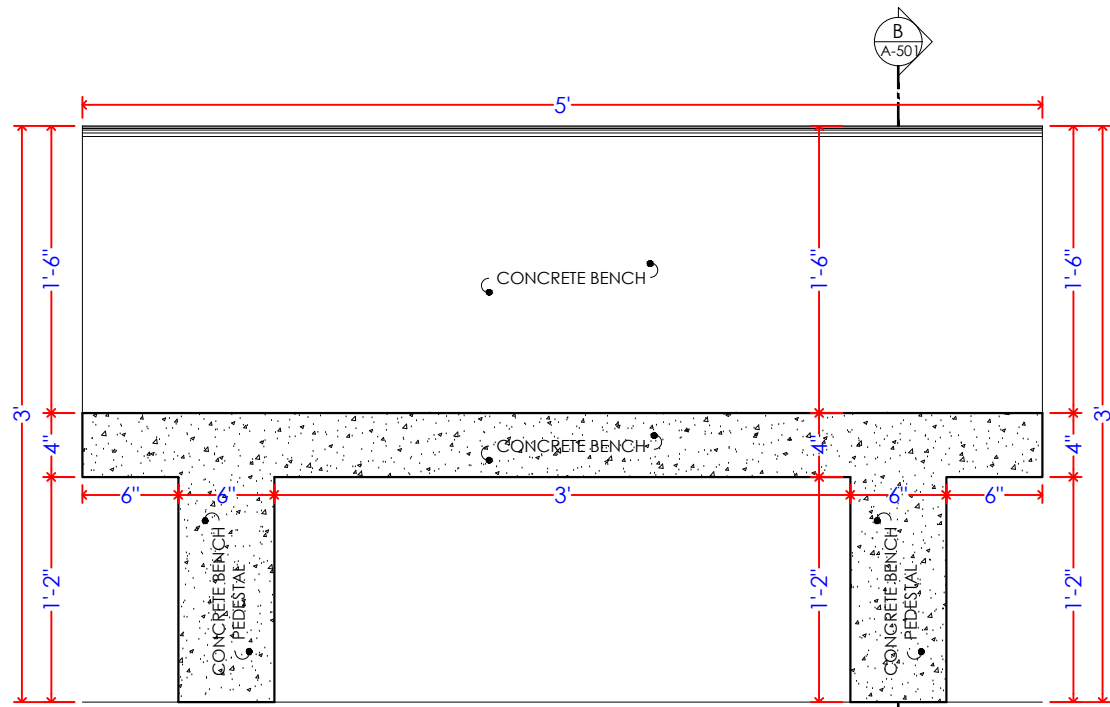
**ELECTRICAL LIGHTING  
LAYOUT PLAN**

Drawing No.  
MMP-1074P01-JHE-PARK-TYP-GB-AR-551

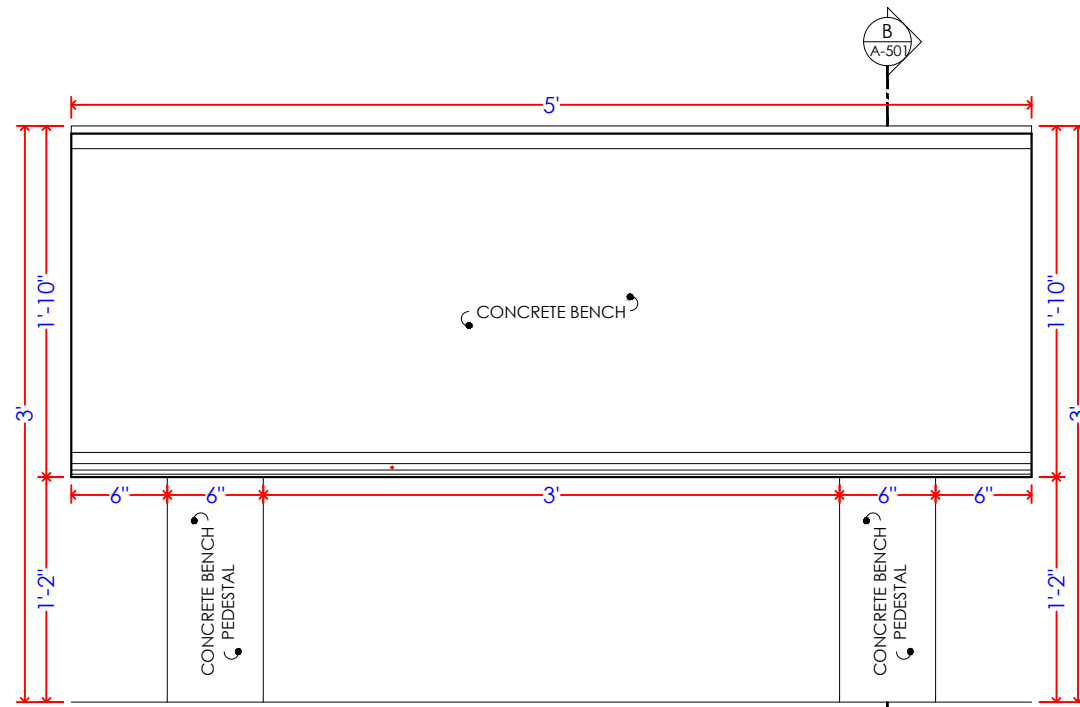
Designed	MMP
Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale	As Shown
Rev No:	0



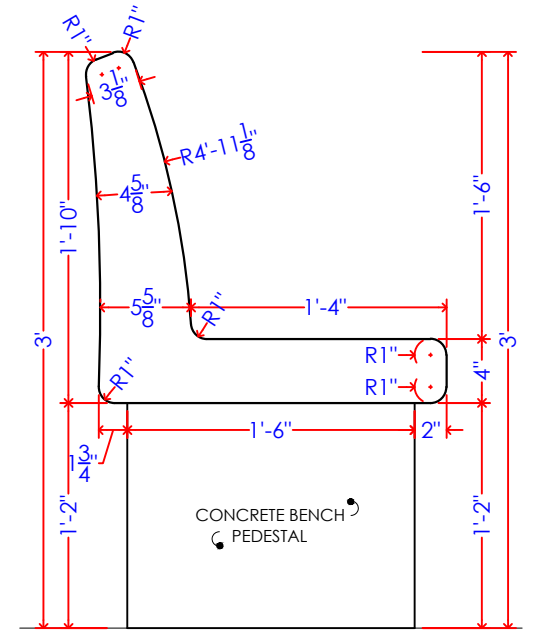
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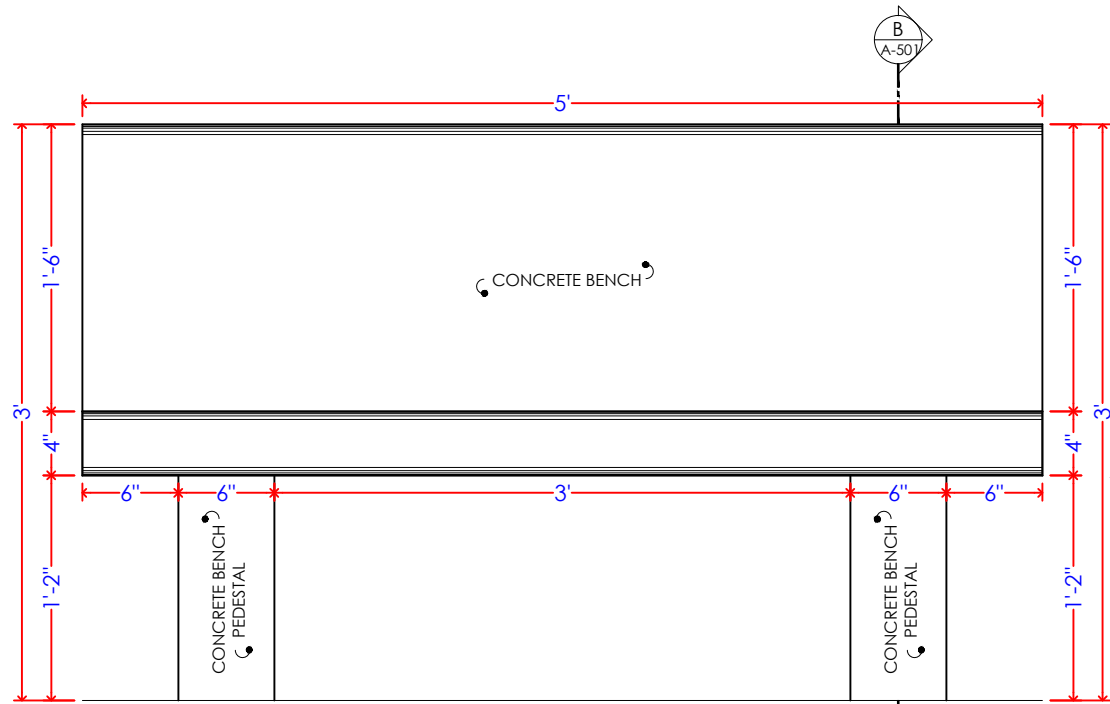
**SECTION AT A-A**  
Scale: 1"=1'-0"



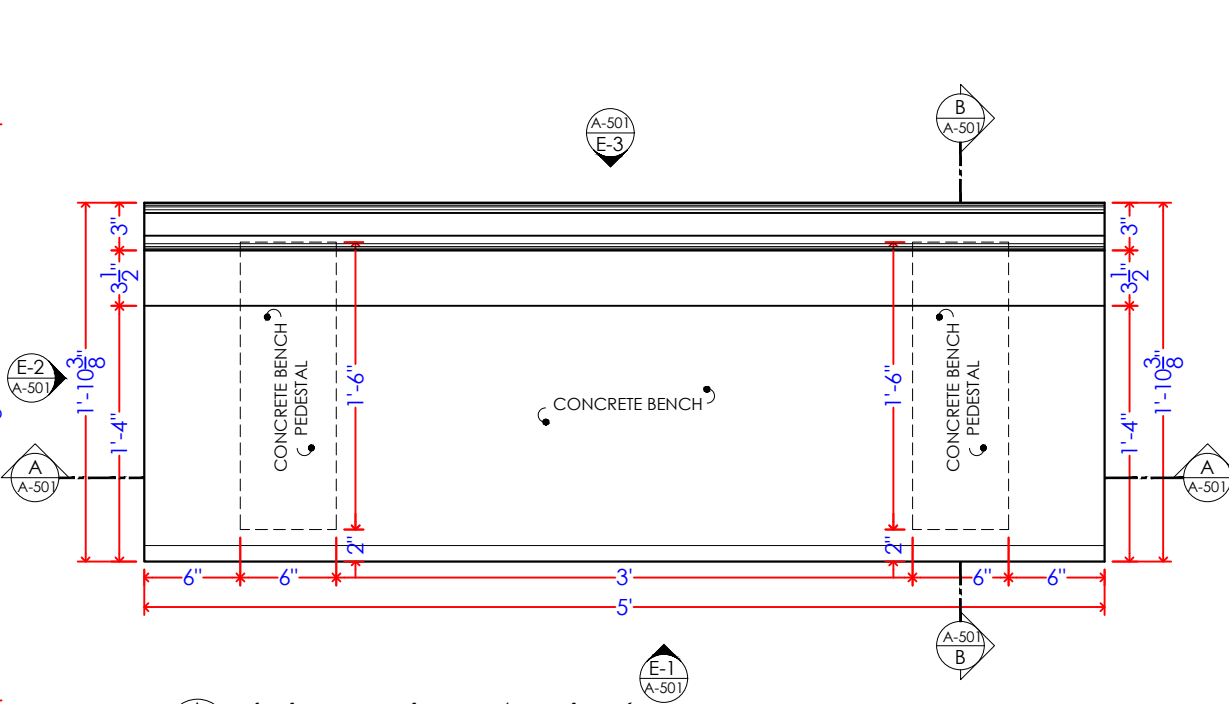
**ELEVATION E-3**  
Scale: 1"=1'-0"



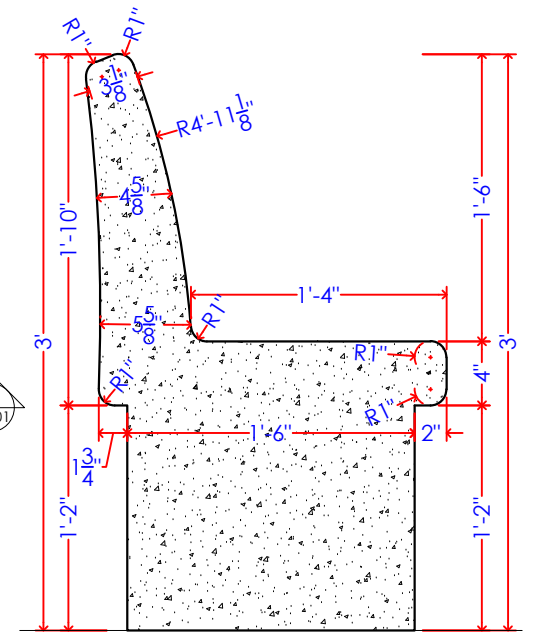
**ELEVATION E-2**  
Scale: 1"=1'-0"





**ELEVATION E-1**  
Scale: 1"=1'-0"



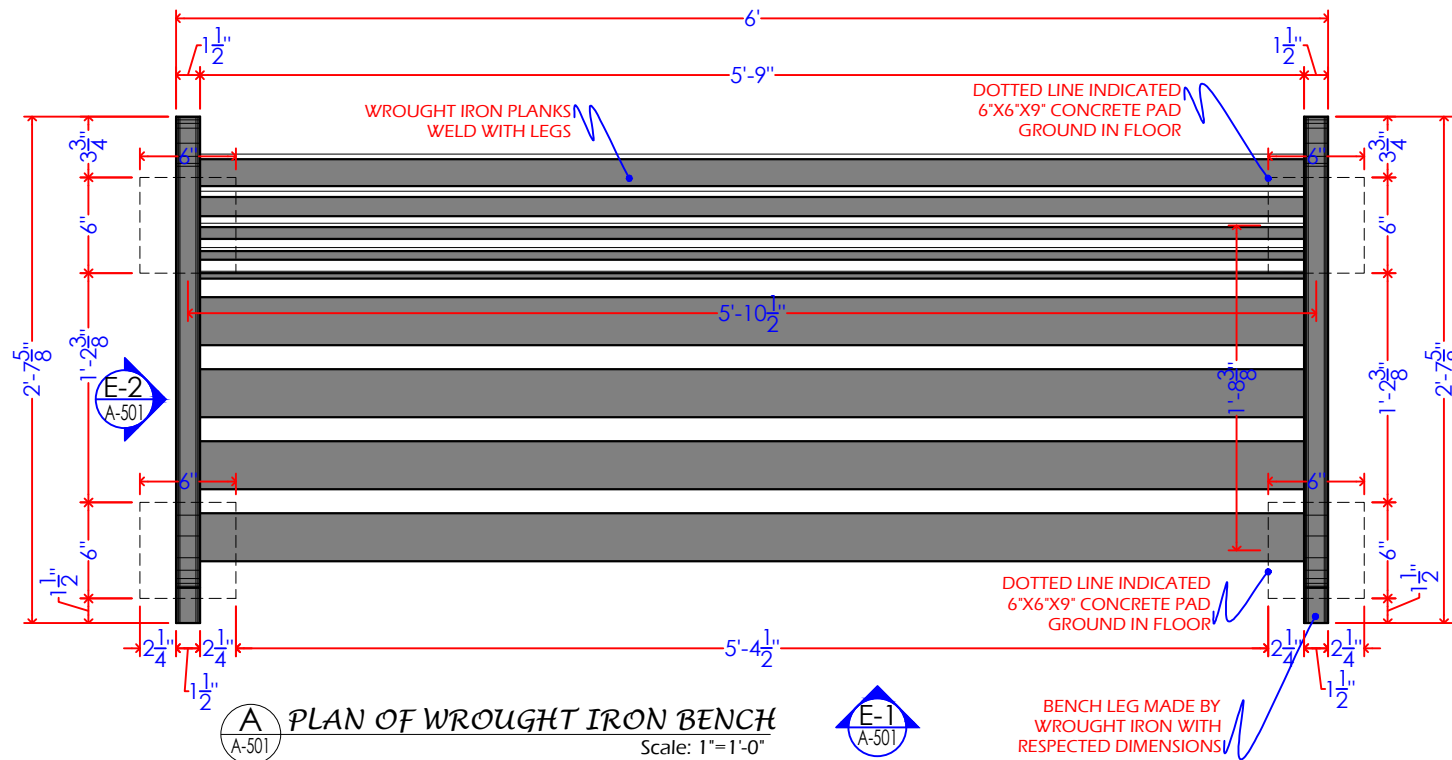
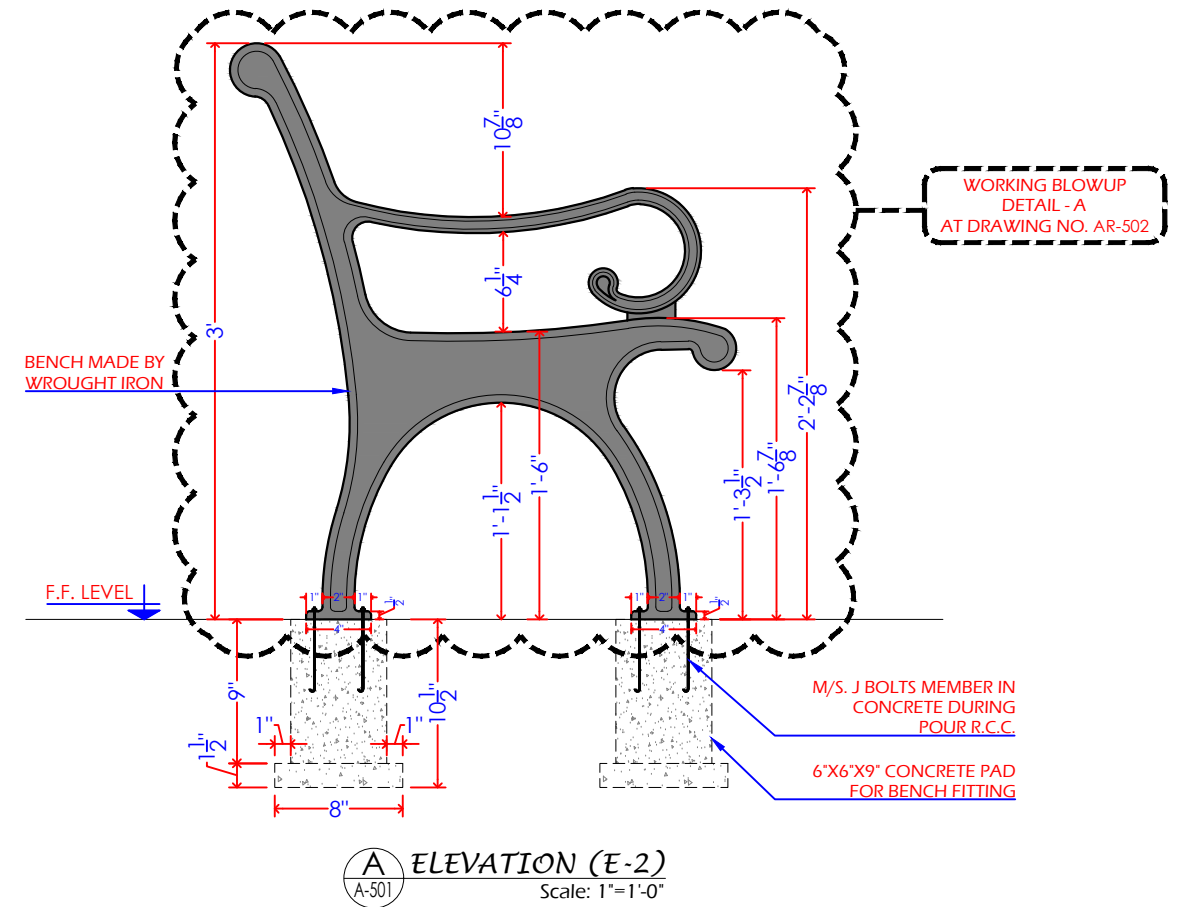
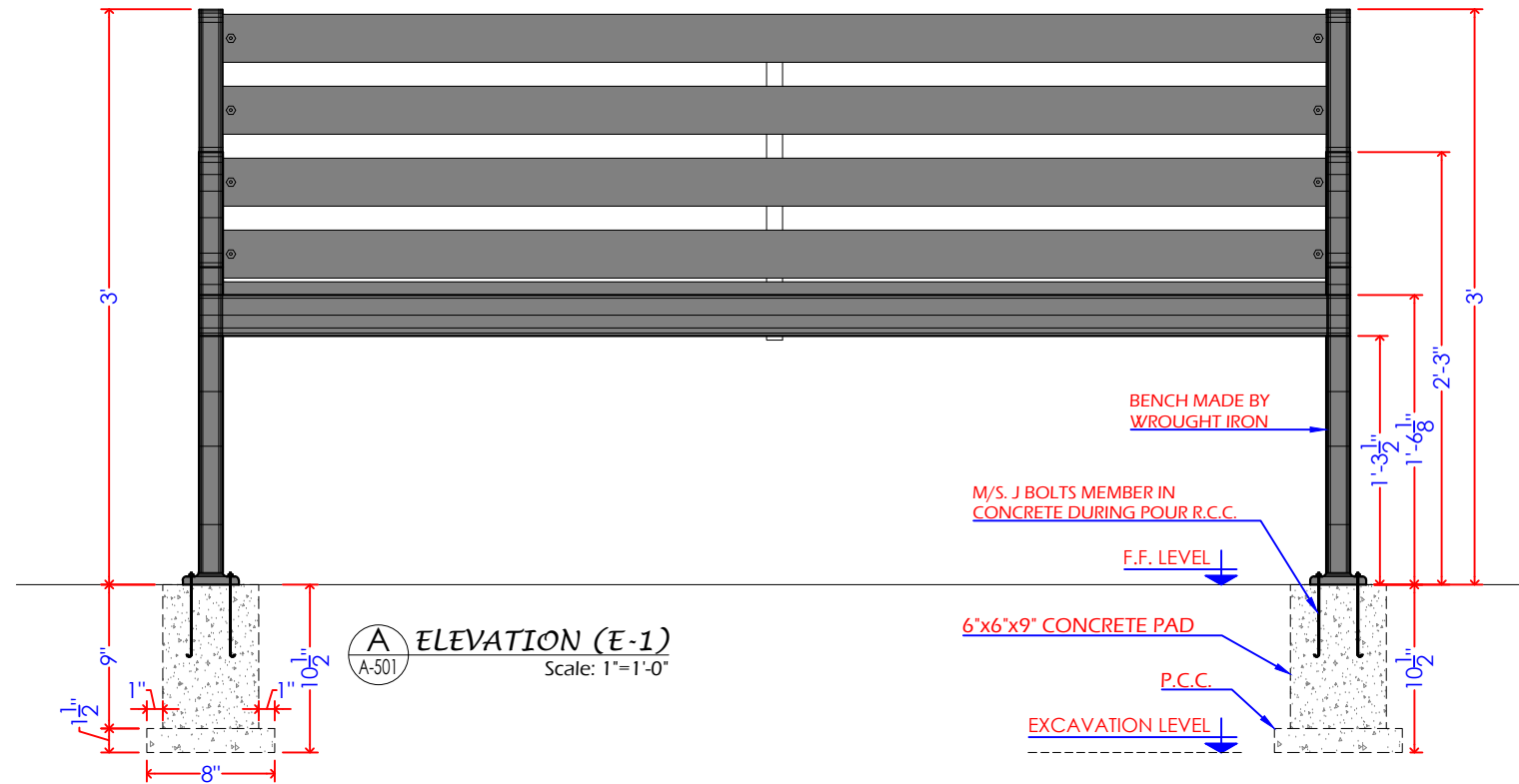
**PLAN OF CONCRETE BENCH**  
Scale: 1"=1'-0"





**SECTION AT B-B**  
Scale: 1"=1'-0"

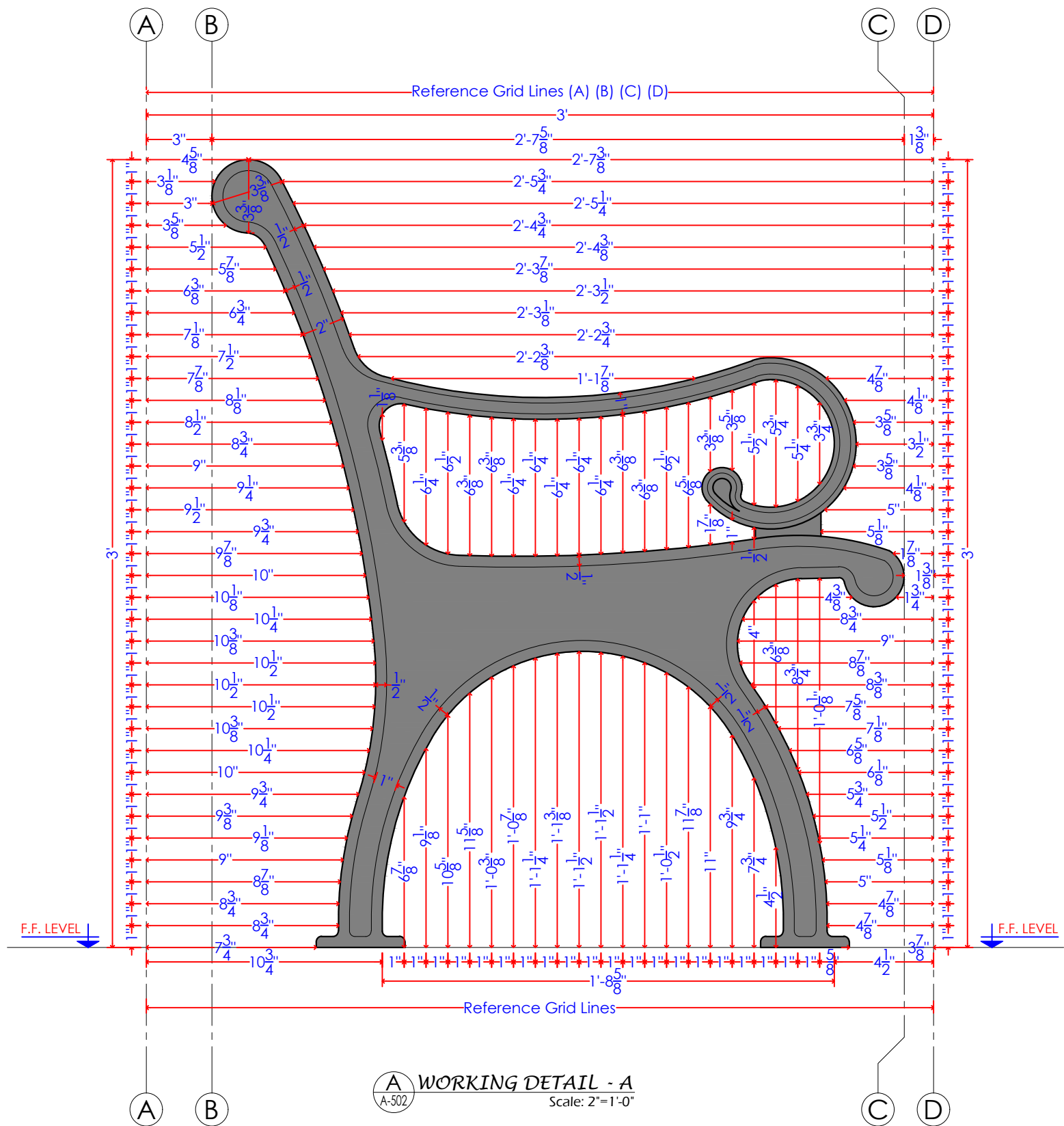
<b>Consultants</b> <b>MMP</b> CENTRAL DESIGN CELL 2nd Floor, CTI Building, 27-Empress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	<b>Client</b>  GOVERNMENT OF PUNJAB  Punjab Municipal Development Fund Company Department (PMDFC)	<b>Financing Agency</b>  WORLD BANK  <b>Project</b> Punjab Cities Program (PCP)	Rev.	Date	Description	Checked	Approved	<b>Title</b>  <b>CONCRETE BENCH (TYPE-A)</b>  Drawing No. MMP-1074P01-JHEL-PARK-TYP-CB-AR-501	Designed	MMP
									Drawn	MMP
									Checked	MMP
									Approved	PMDFC
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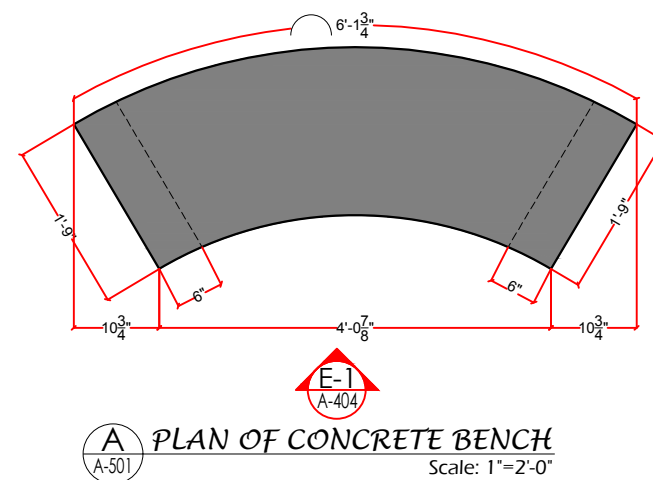
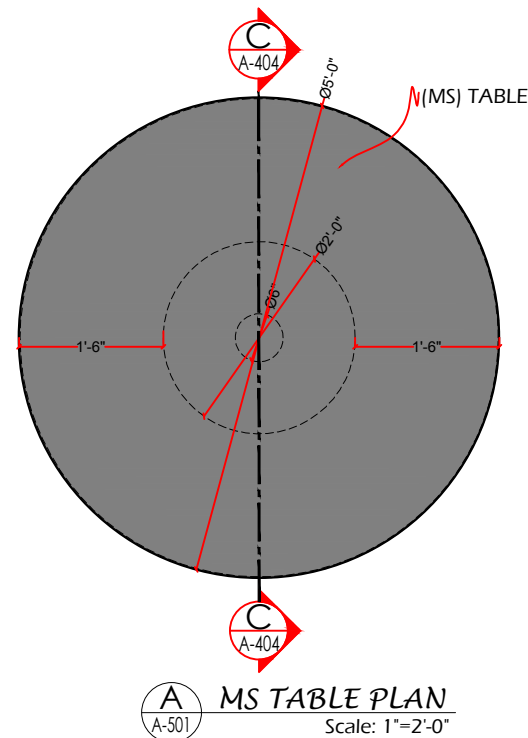
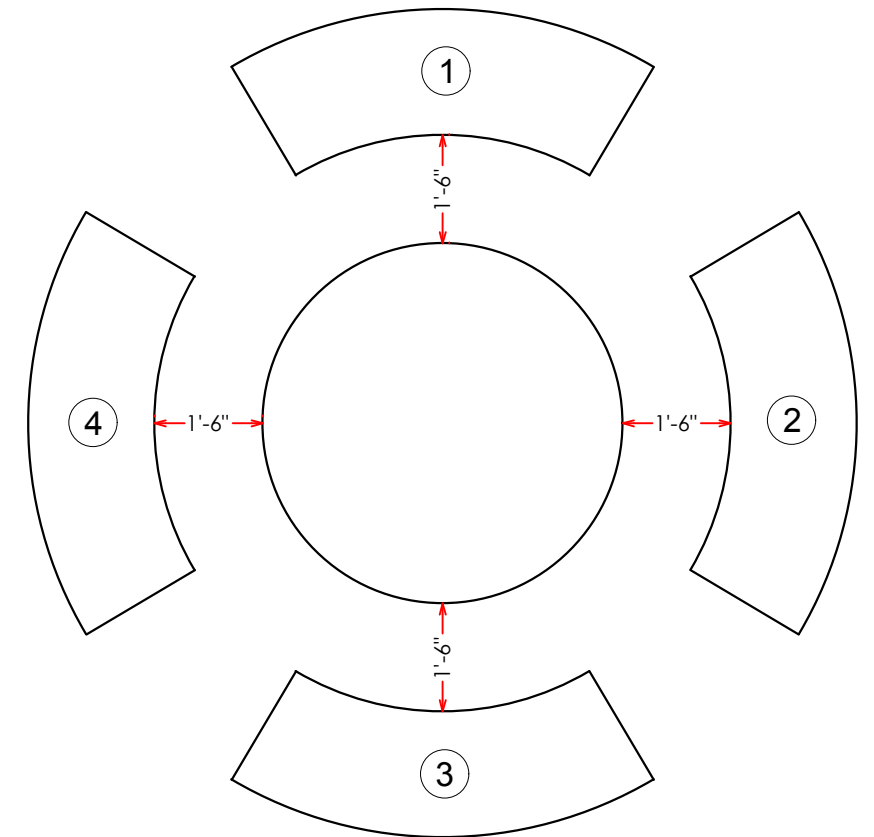
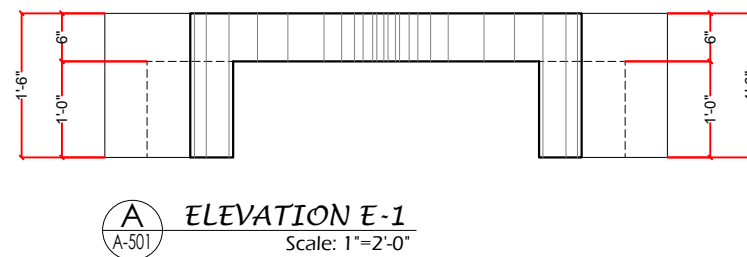
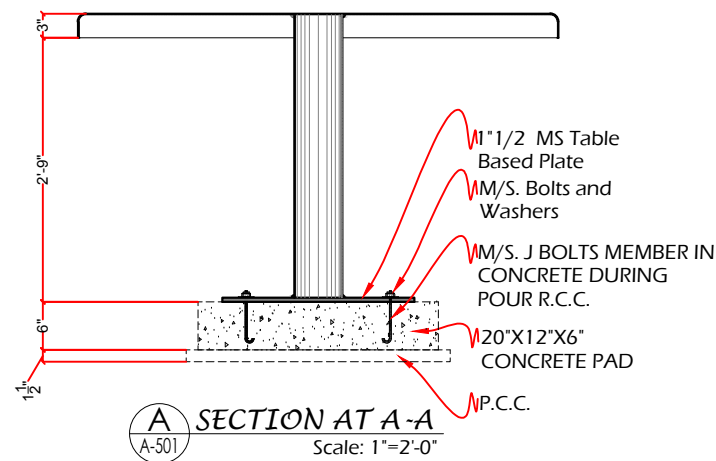


3D VIEW OF WROUGHT IRON BENCH  
Scale: 1"=1'-0"

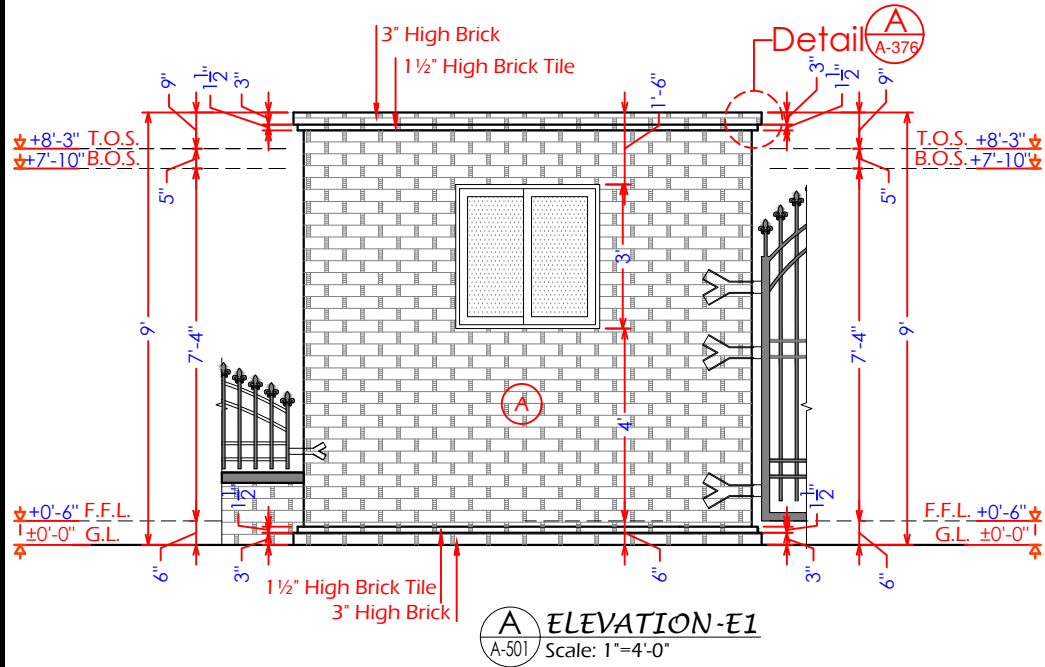
Consultants <b>MMP</b> CENTRAL DESIGN CELL 2nd Floor, CTI Building, 27-Empress Road, Lahore 042-36292525-7 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	Client  GOVERNMENT OF PUNJAB  Punjab Municipal Development Fund Company Department (PMDFC)	Financing Agency  WORLD BANK  Project Punjab Cities Program (PCP)	Rev.	Date	Description	Checked	Approved	Title  <b>WROUGHT IRON BENCH (TYPE-B) DETAIL-01</b>  Drawing No. MMP-1074P01-JHE-PARK-TYP-WIB-AR-501	Designed	MMP
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									Approved	PMDFC
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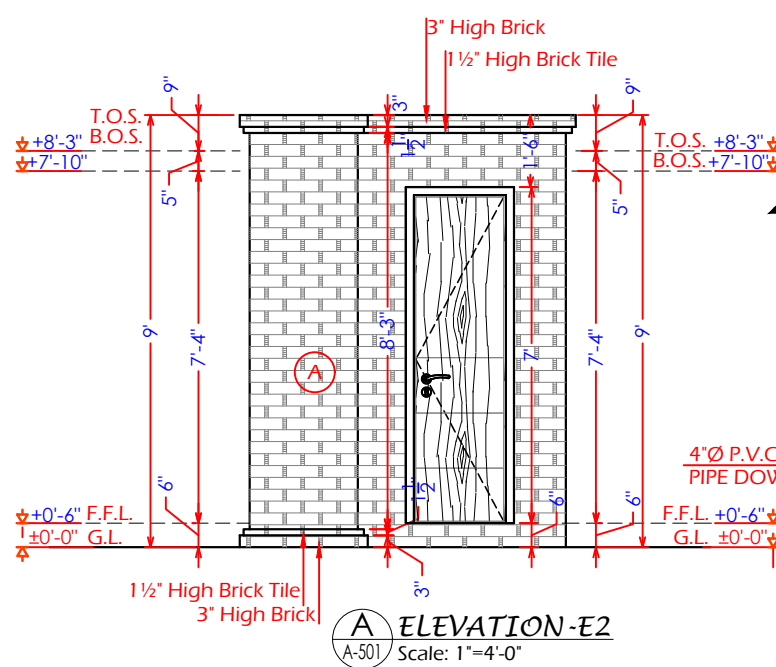
<div>Consultants</div> <div></div> <div>CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com</div>	<div>Client</div> <div></div> <div>GOVERNMENT OF PUNJAB</div> <div></div> <div>Punjab Municipal Development Fund Company Department (PMDFC)</div>	<div>Financing Agency</div> <div>WORLD BANK</div> <div>Project</div> <div>Punjab Cities Program (PCP)</div>	Rev.	Date	Description	Checked	Approved	<div>Title</div> <div>WROUGHT IRON BENCH (TYPE-B) DETAIL-02</div> <div>Drawing No.</div> <div>MMP-1074P01-JHE-PARK-TYP-WIB-AR-502</div>	Designed	MMP
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									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0



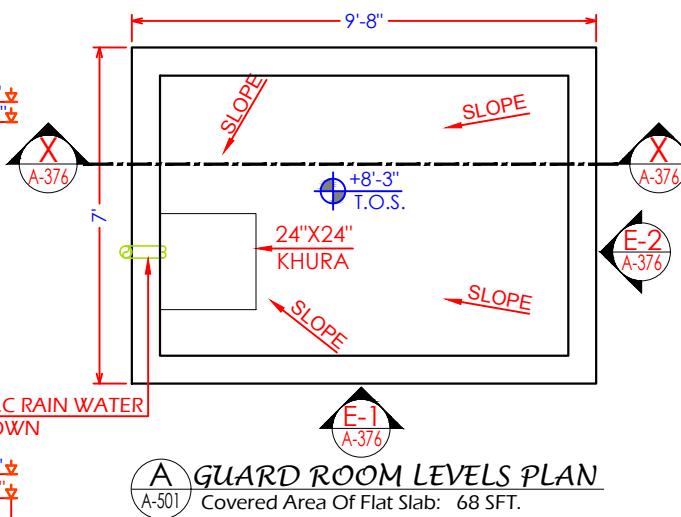
<b>Consultants</b> <b>MMP</b> CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	<b>Client</b>  GOVERNMENT OF PUNJAB  Punjab Municipal Development Fund Company Department (PMDFC)	<b>Financing Agency</b> WORLD BANK <b>Project</b> Punjab Cities Program (PCP)	Rev.	Date	Description	Checked	Approved	<b>Title</b> CONCRETE BENCHES WITH M.S. TABLE (TYPE-C) Drawing No. MMP-1074P01-JHE-PARK-TYP-CM-AR-501	Designed	MMP
									Drawn	MMP
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0



**ELEVATION-E1**  
A-501 Scale: 1"=4'-0"



**ELEVATION-E2**  
A-501 Scale: 1"=4'-0"



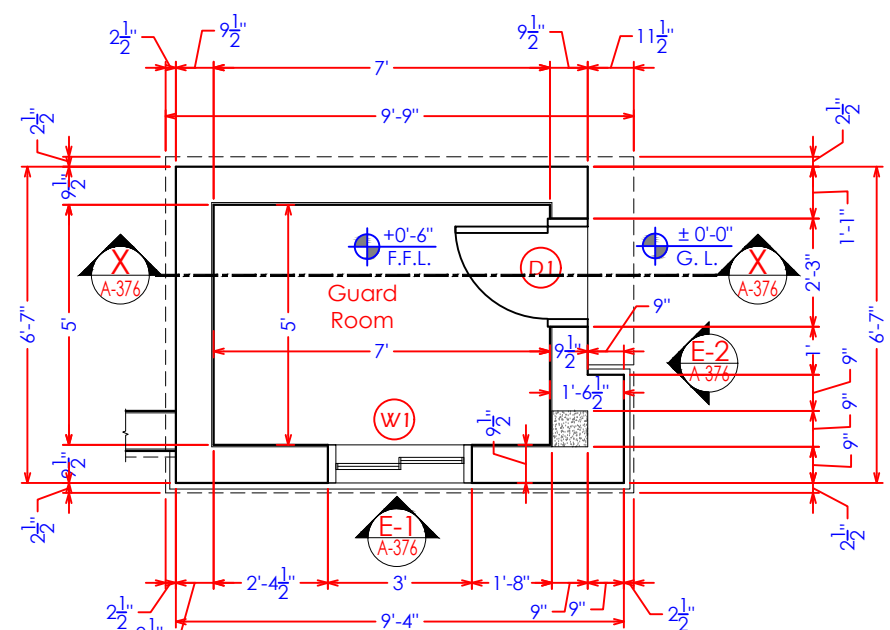
**GUARD ROOM LEVELS PLAN**  
A-501 Covered Area Of Flat Slab: 68 SFT.

DOORS & WINDOWS SCHEDULE				
NO	TYP.	SIZE	SILL	DESCRIPTION
01	DI	2'-3\"X7'-0"	0'-0"	WOODEN DOOR
02	W1	3'-0\"X3'-0"	4'-0"	GLASS WINDOW

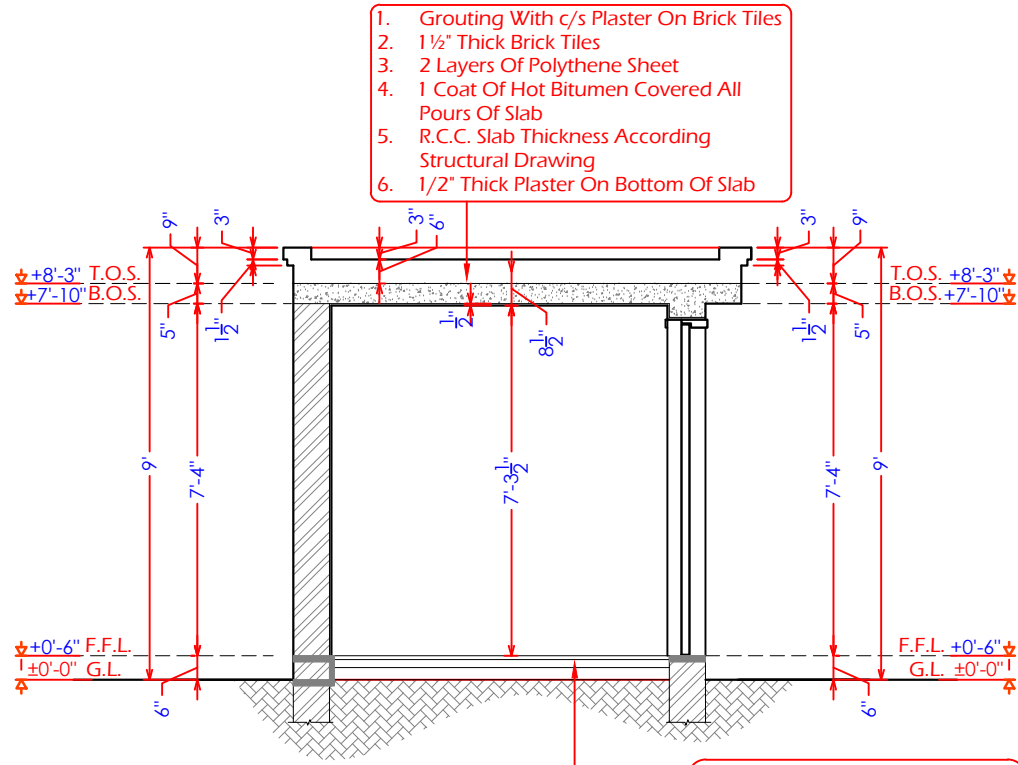
LEGEND	
03	C.H. CLEAR HEIGHT (Finished Floor To Bottom Of Slab)
04	G.L. GROUND LEVEL
05	F.F.L. FINISHED FLOOR LEVEL

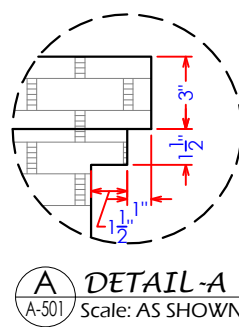
LEGEND	
TYPE	DESCRIPTION
G.L.	GROUND LEVEL
F.F.L.	FINISHED FLOOR LEVEL
B.O.S.	BOTTOM OF SLAB
T.O.S.	TOP OF SLAB
T.O.R.	TOP OF ROOF
C.H.	CLEAR HEIGHT
	ELEVATION MARK IN PLAN
	SECTION LINE MARK IN PLAN
	LEVEL MARK IN ELEVATION
	LEVEL MARK IN PLAN
	APPROVED BRICK FINISHED



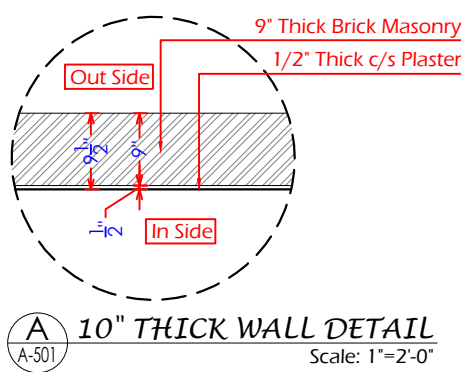
**GUARD ROOM PLAN**  
A-501 Scale: 1"=4'-0"



**SECTION AT XX**  
A-501 Scale: 1"=4'-0"



**DETAIL-A**  
A-501 Scale: AS SHOWN



**10" THICK WALL DETAIL**  
A-501 Scale: 1"=2'-0"

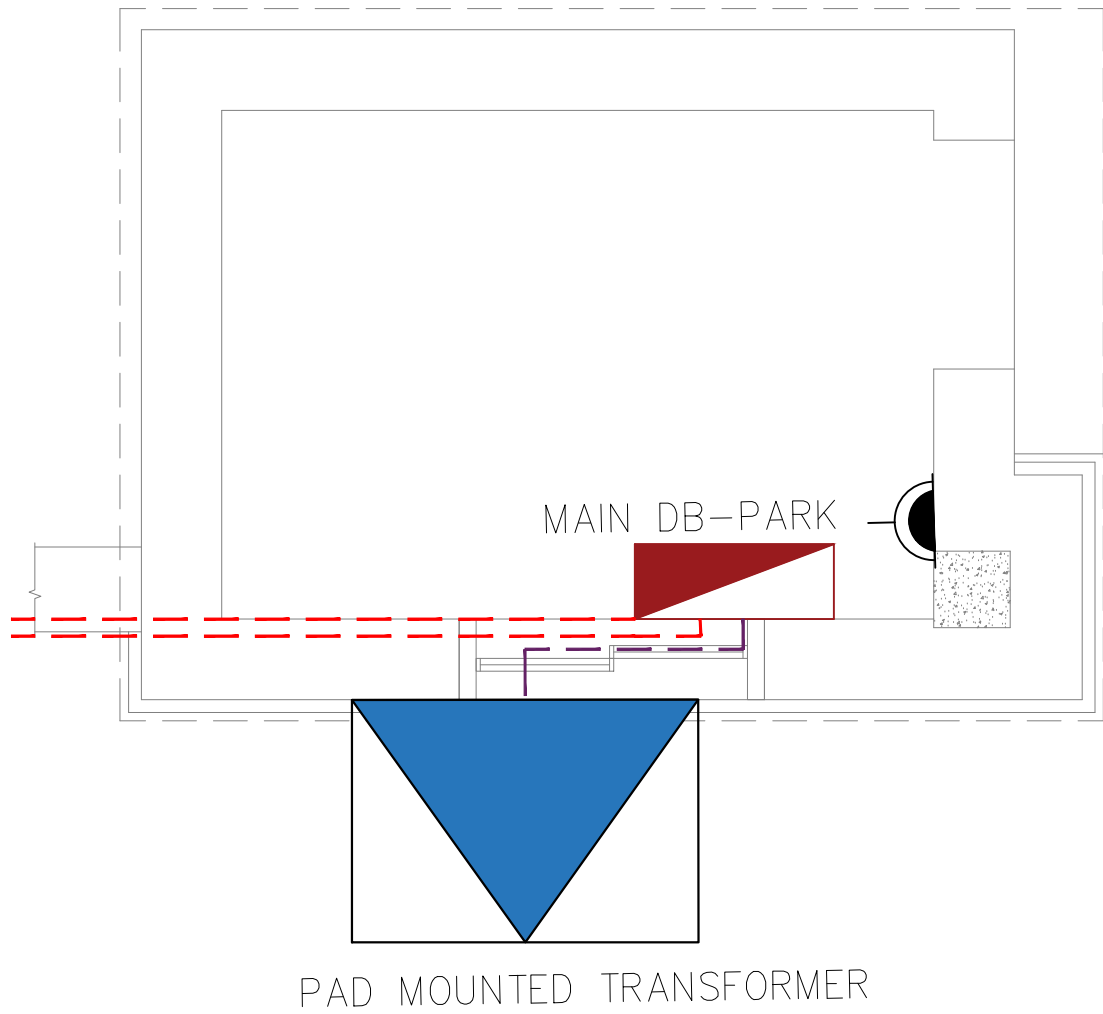
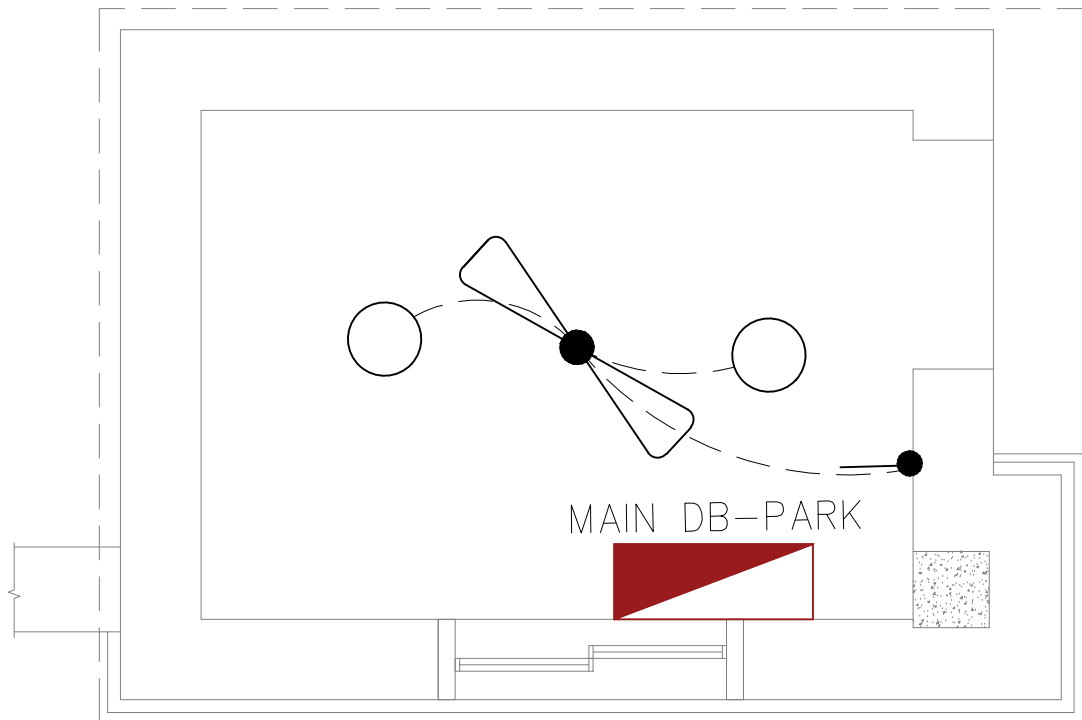
- Grouting With c/s Plaster On Brick Tiles
- 1 1/2" Thick Brick Tiles
- 2 Layers Of Polythene Sheet
- 1 Coat Of Hot Bitumen Covered All Pours Of Slab
- R.C.C. Slab Thickness According Structural Drawing
- 1/2" Thick Plaster On Bottom Of Slab

- Tile / Marble Fix / Grout To Floor Approved by Consultant
- 2" to 3" Thick P.C.C. (1:2:4)
- 3" to 4" Thick Brick Blast
- River Silt Compacted
- Well Compacted Earth

<b>Consultants</b>  <b>CENTRAL DESIGN CELL</b> 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	<b>Client</b>  <b>GOVERNMENT OF PUNJAB</b>   <b>Punjab Municipal Development Fund Company Department (PMDFC)</b>	<b>Financing Agency</b>  <b>WORLD BANK</b>	<b>Project</b>  <b>Punjab Cities Program (PCP)</b>	Rev.	Date	Description	Checked	Approved	<b>GUARD ROOM DETAIL</b>  Drawing No. MMP-1074P01-JHE-PARK-TYP-GR-AR-501	Designed	MMP
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										Checked	MMP
										Approved	PMDFC
										Scale	As Shown
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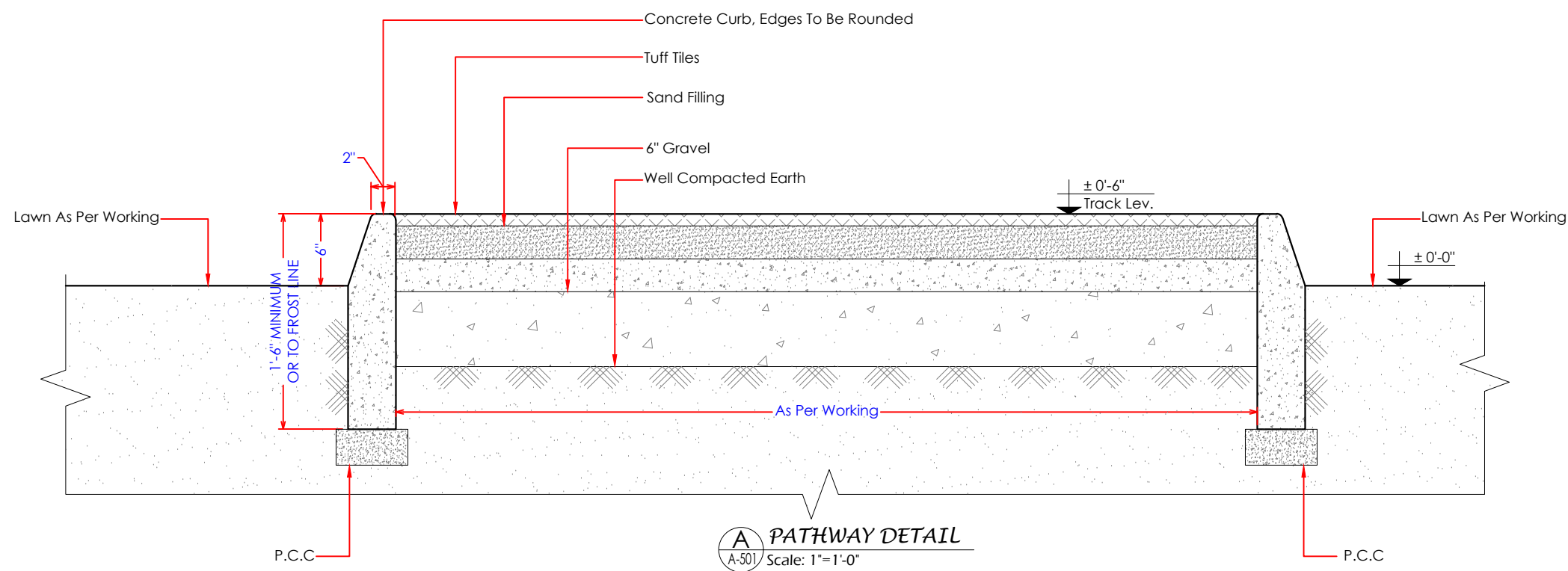
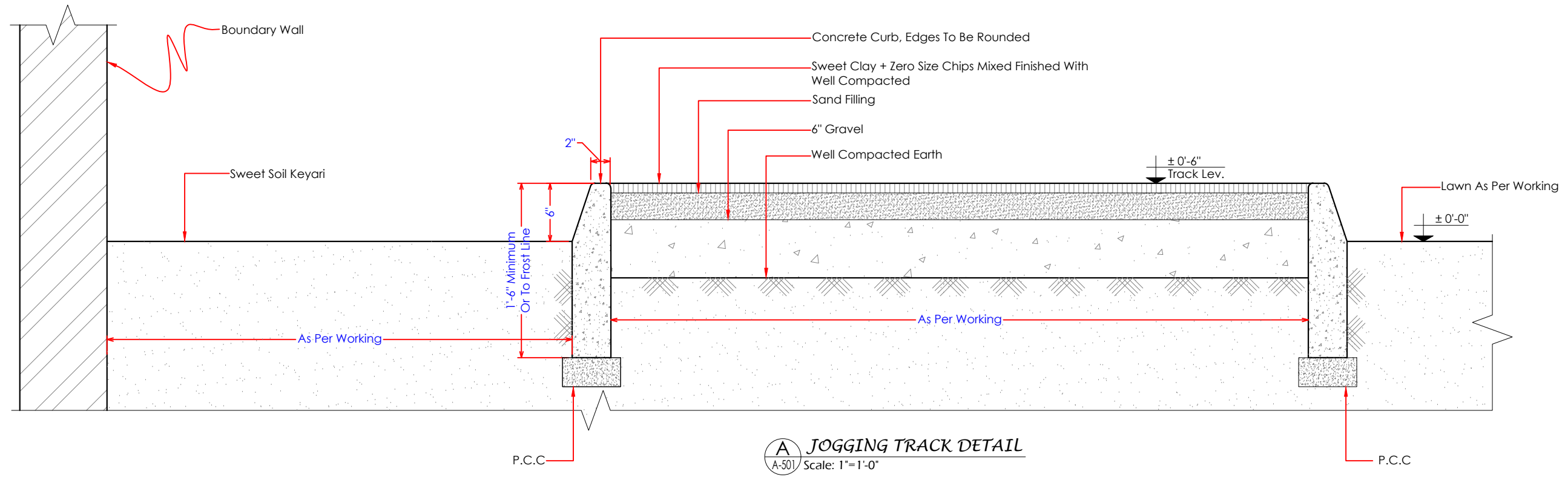
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Sr/No	NAME	SYMBOL
01	15 AMP Switch Socket	
02	Wall Mounted Main Distribution Panel	
03	Transformer	

Sr/No	NAME	SYMBOL
01	8 w Led Vanity Light	
02	10 w led DL (Recessed Type)	
03	2 Gang one-way Switch	

<b>Consultants</b>  CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	<b>Client</b>  GOVERNMENT OF PUNJAB   Punjab Municipal Development Fund Company Department (PMDFC)	<b>Financing Agency</b>  WORLD BANK  <b>Project</b> Punjab Cities Program (PCP)	Rev.	Date	Description	Checked	Approved	<b>ELECTRICAL LIGHTING &amp; POWER LAYOUT PLAN</b>  Drawing No. MMP-1074P01-JHE-PARK-TYP-GR-AR-551	Designed	MMP
									Drawn	MMP
									Checked	MMP
									Approved	PMDFC
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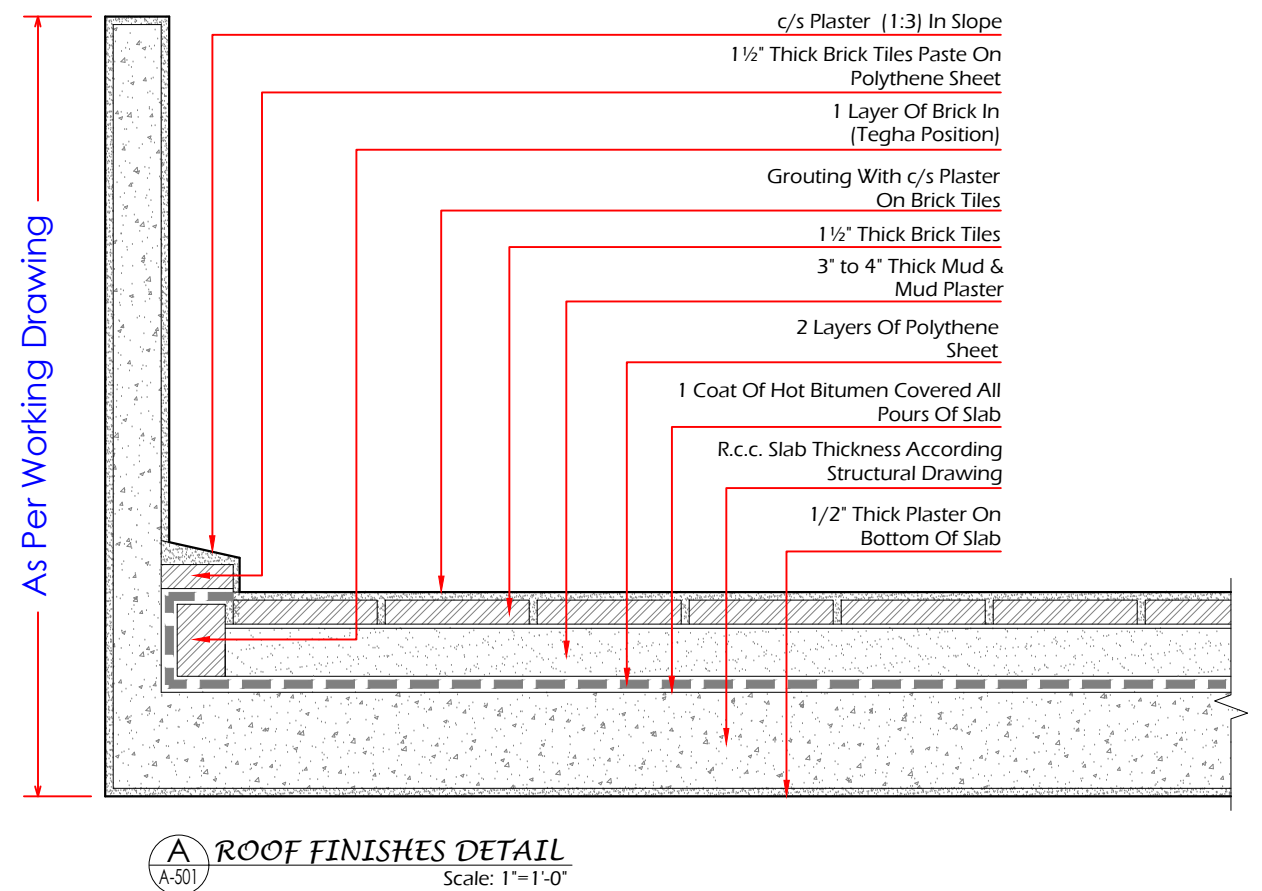
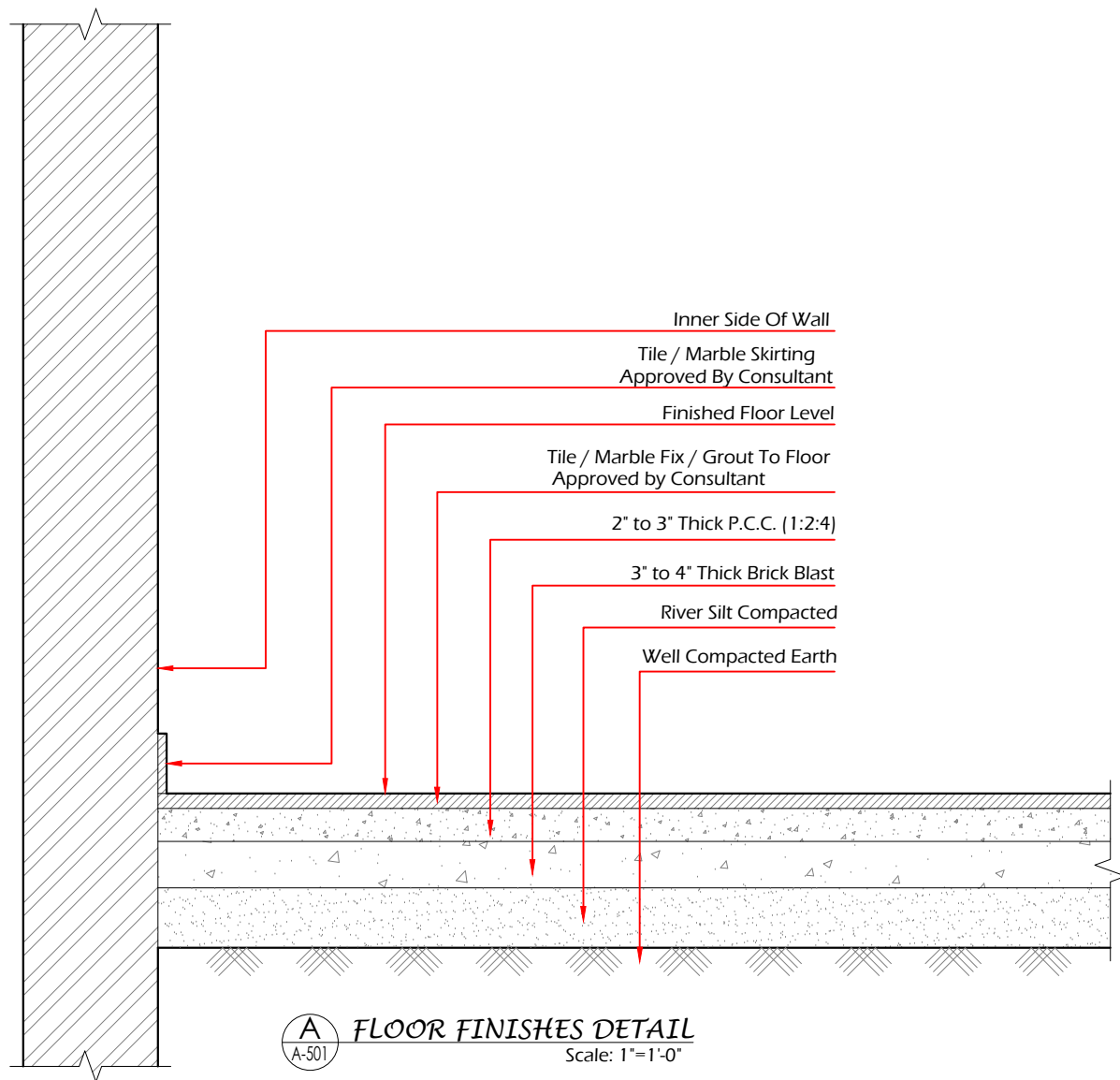


<b>Consultants</b>  CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292525-7 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	<b>Client</b>  GOVERNMENT OF PUNJAB   Punjab Municipal Development Fund Company Department (PMDFC)	<b>Financing Agency</b>  WORLD BANK  <b>Project</b> Punjab Cities Program (PCP)	Rev.	Date	Description	Checked	Approved	<b>JOGGING TRACK &amp; PATH WAY DETAIL</b>  Drawing No. MMP-1074P01-JHE-PARK-TYP-JG-AR-501	Designed	MMP
									Drawn	MMP
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0

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Drawing file path & name: \\server\Public\Noeem Malik\1. Kala Gujran Park\Typical Drawings for Jhelum\12Typ. FDAR-501 Finishes Detail



Consultants

**MMP**

CENTRAL DESIGN CELL  
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27-Emress Road, Lahore  
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 GOVERNMENT OF PUNJAB

 Punjab Municipal Development  
Fund Company  
Department (PMDFC)

Financing Agency

WORLD BANK

Project

Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved

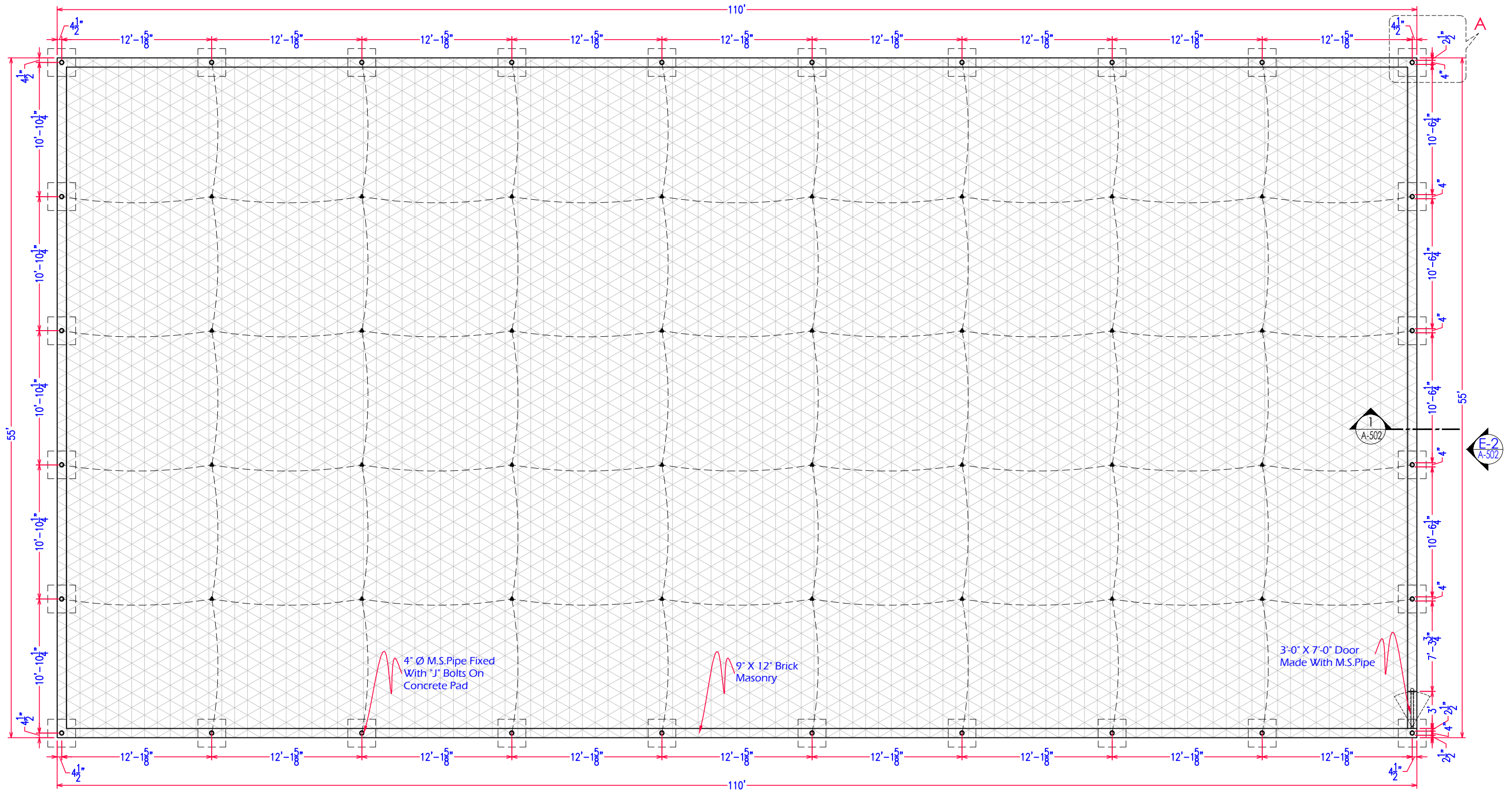
Title

**FINISHES DETAIL OF KALA  
GUJRAN PARK**

Drawing No.  
MMP-1074P01-JHE-PARK-FD-AR-501

Designed	MMP
Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale	As Shown
Rev No:	0

Drawing file path & name: \\1. sheraaz\014-clies\pupab\03 Jhelum\Jhelum UPDATED 24.01.2023\1. Kora Gajon Park\Typical Drawings for Jhelum\Net Cricketing Revised



**A WORKING LAYOUT PLAN (NET CRICKETING)**  
A-501 Scale: 1"=8'-0"



**Consultants**  
**MMP**  
CENTRAL DESIGN CELL  
2nd Floor, CTI Building,  
27-Emress Road, Lahore  
042-36292525-7  
042-36292528  
cdc.mmp@mmpakistan.com  
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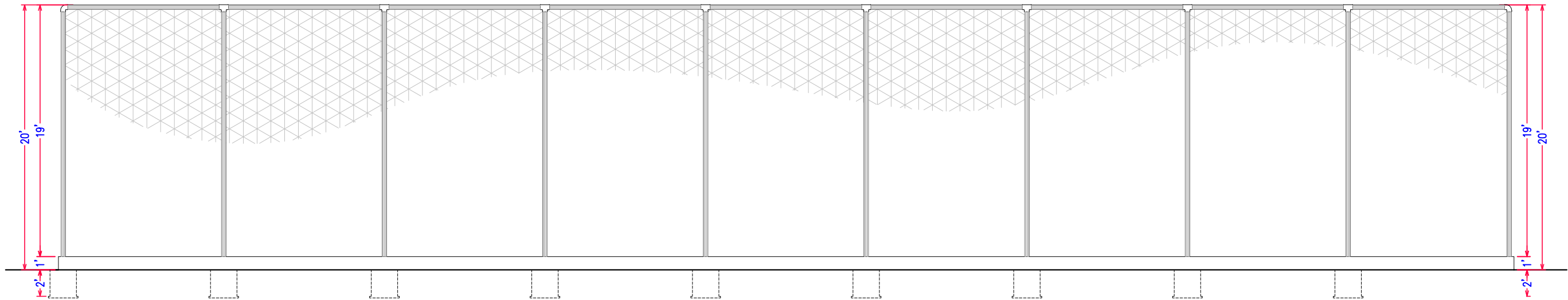
**Client**  
  
**GOVERNMENT OF PUNJAB**  
  
Punjab Municipal Development  
Fund Company  
Department (PMDFC)

**Financing Agency**  
WORLD BANK  
**Project**  
Punjab Cities Program (PCP)

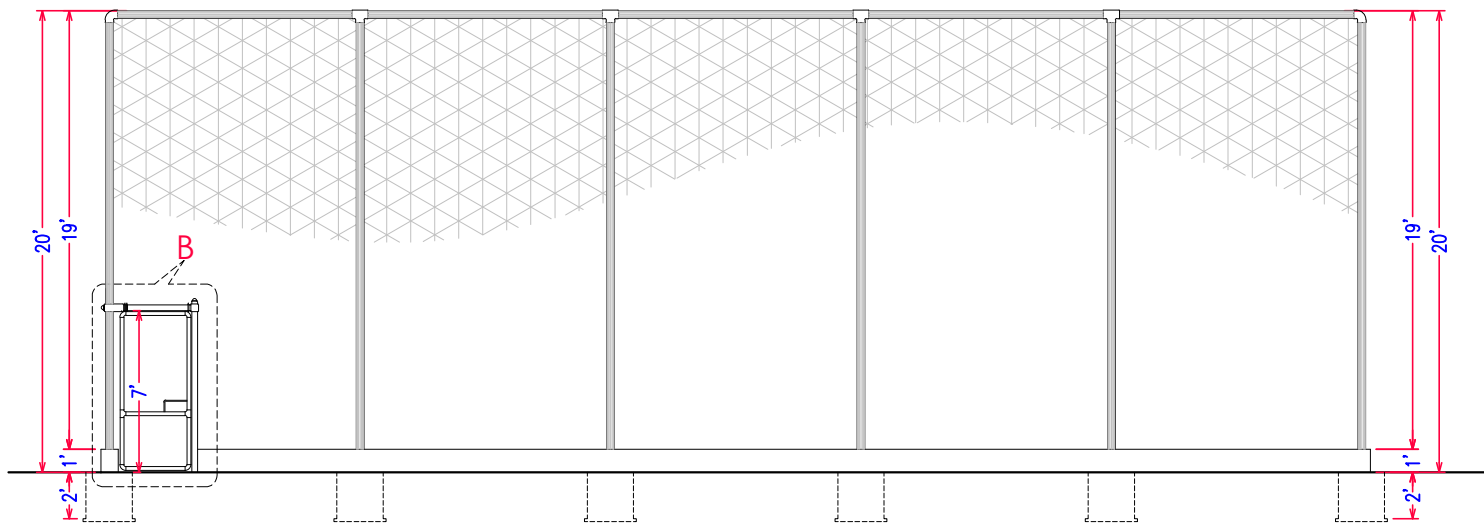
Rev.	Date	Description	Checked	Approved

**NET CRICKETING  
DETAIL-01**  
Drawing No.  
MMP-1074P01-JHE-PARK-TYP-NCK-AR-501

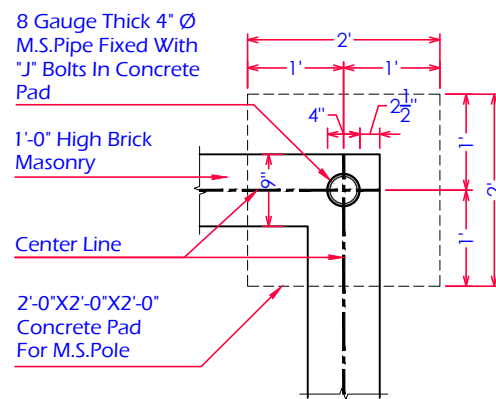
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Drawn	MMP
Checked	MMP
Approved	PMDFC
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Rev No:	0



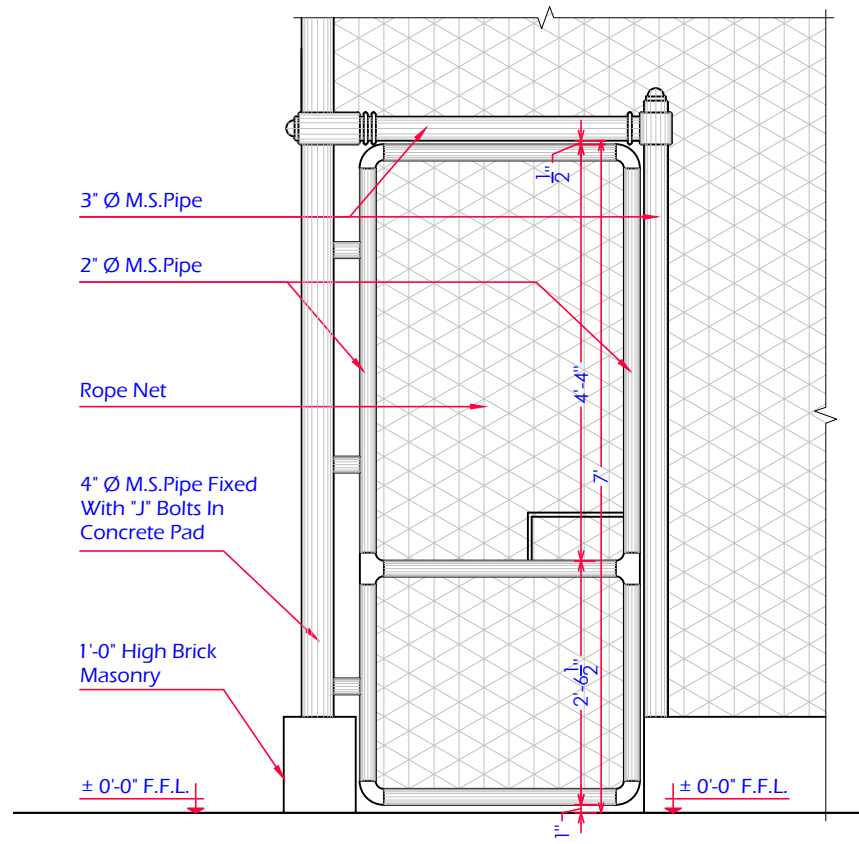
**A FRONT ELEVATION (E-1)**  
A-502 Scale: 1"=8'-0"



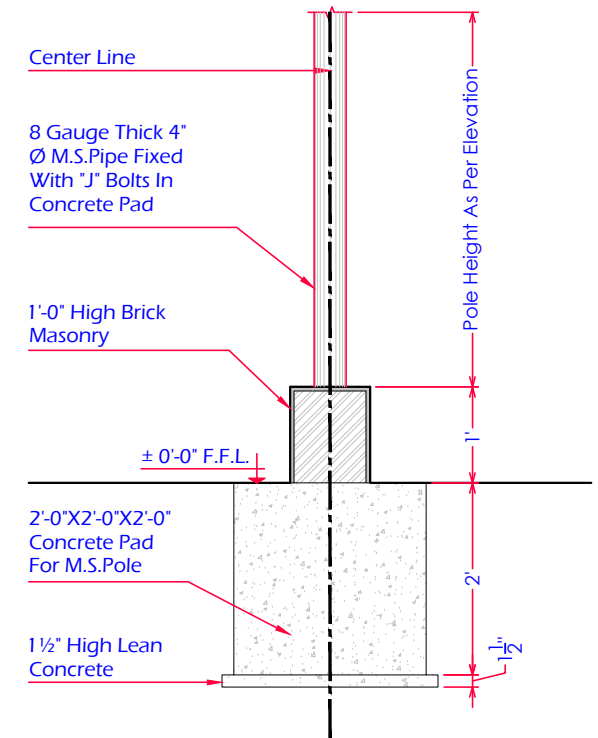
**A SIDE ELEVATION (E-2)**  
A-502 Scale: 1"=8'-0"






**A DETAIL - A**  
A-502 Scale: 1"=2'-0"

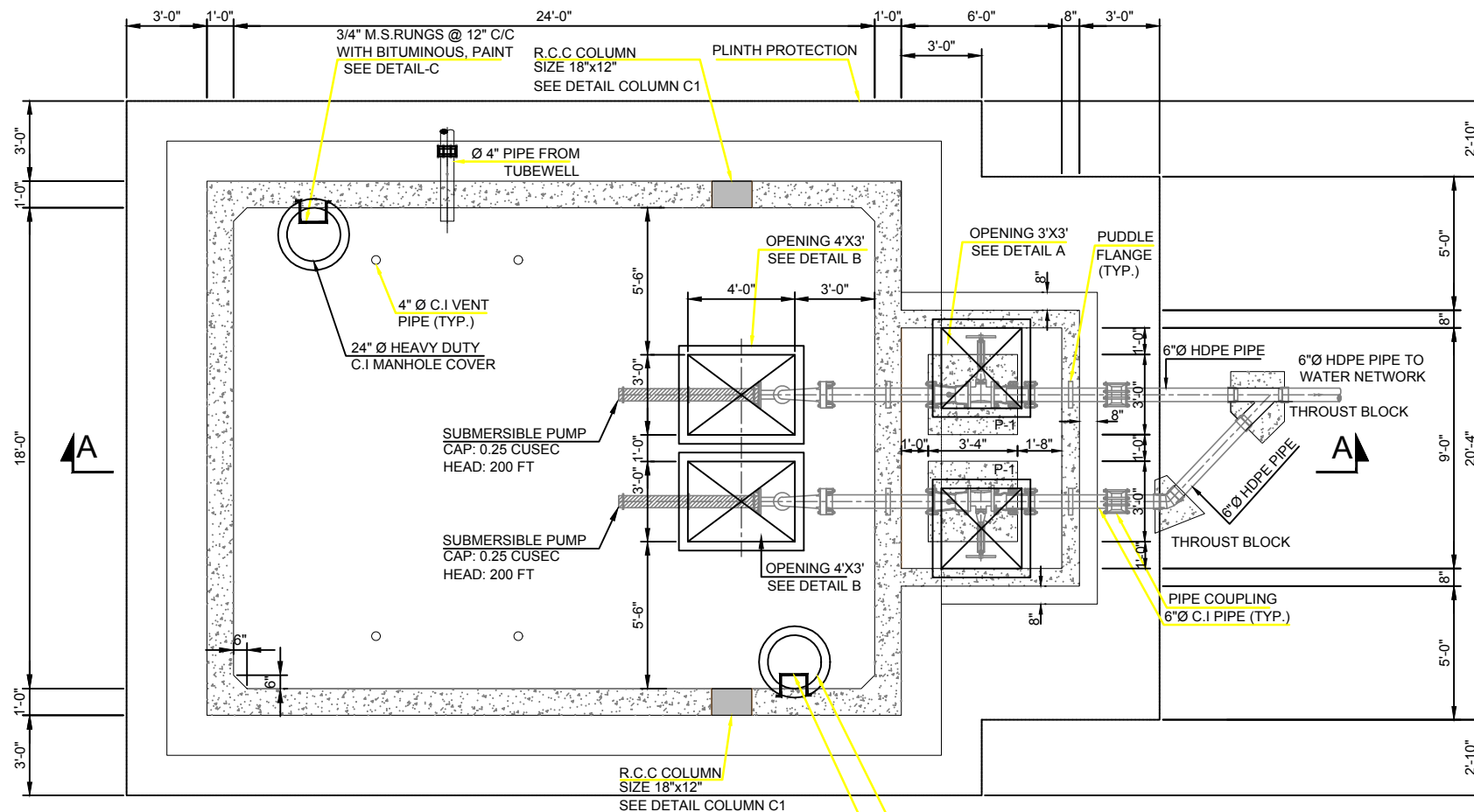


**A DETAIL - B**  
A-502 Scale: 1"=2'-0"

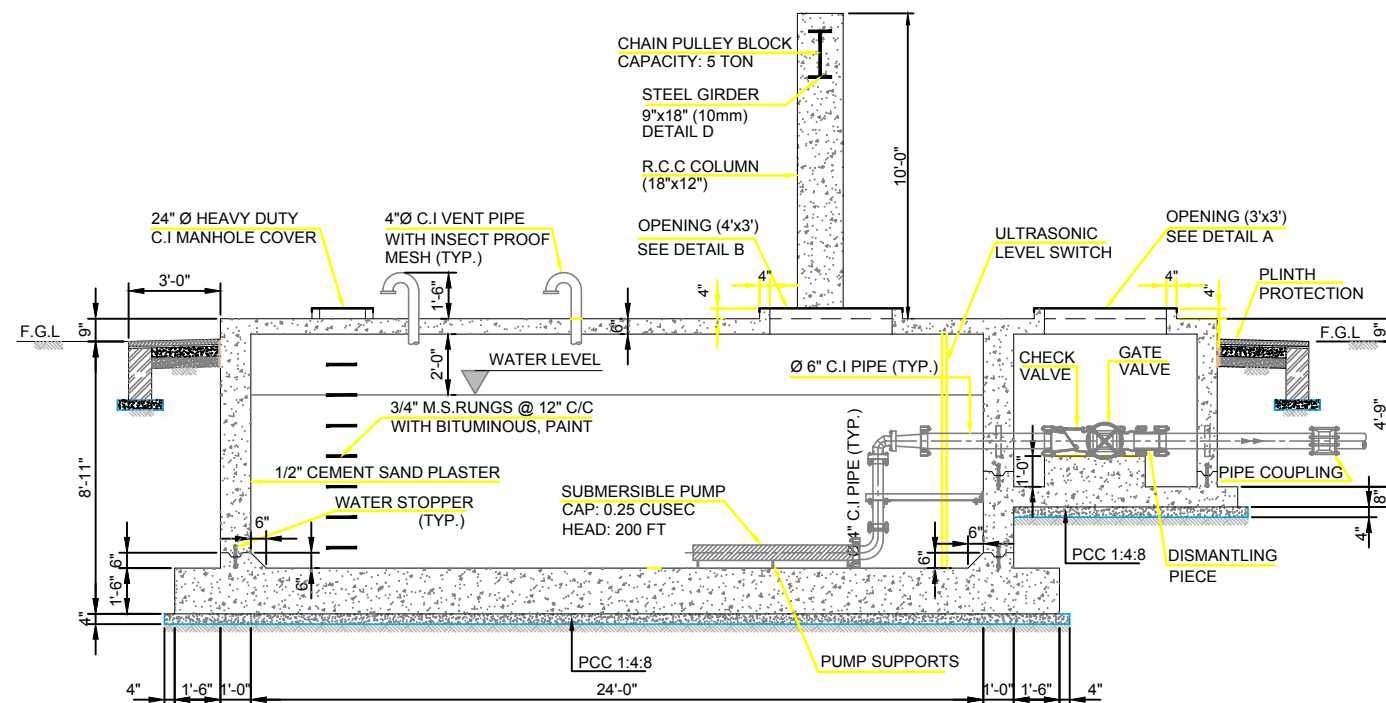


**A SECTION AT 1-1**  
A-502 Scale: 1"=2'-0"

<div>Consultants</div> <div></div> <div><div>CENTRAL DESIGN CELL</div><div>2nd Floor, CTI Building,</div><div>27-Empress Road, Lahore</div><div>042-36292525-7</div><div>042-36292528</div><div>cdc.mmp@mmpakistan.com</div><div>http://www.mmpakistan.com</div></div>	<div>Client</div> <div></div> <div>GOVERNMENT OF PUNJAB</div> <div></div> <div>Punjab Municipal Development Fund Company Department (PMDFC)</div>	<div>Financing Agency</div> <div>WORLD BANK</div>	<div>Project</div> <div>Punjab Cities Program (PCP)</div>	Rev.	Date	Description	Checked	Approved	<div>Title</div> <div>NET CRICKETING DETAIL-02</div> <div>Drawing No. MMP-1074P01-JHE-PARK-TYP-NCK-AR-502</div>	Designed	MMP
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										Checked	MMP
										Approved	PMDFC
										Scale	As Shown
										Rev No:	0
			161								



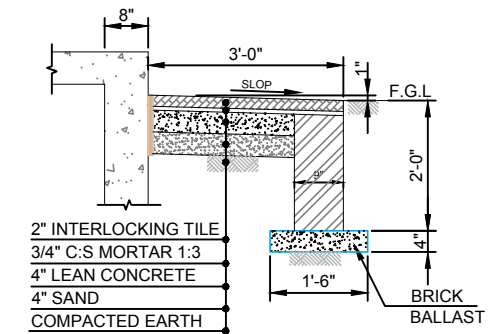
FOUNDATION PLAN



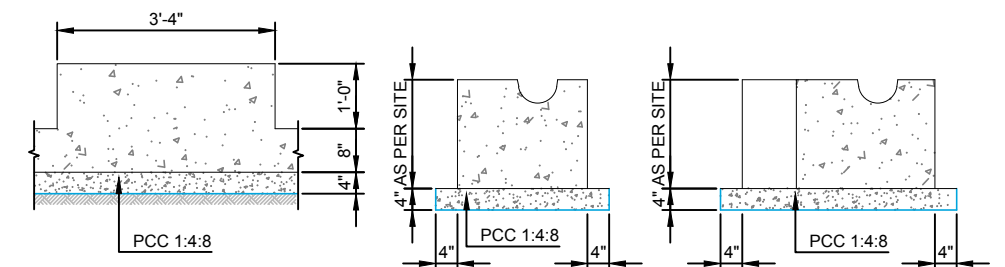
SECTION A-A

## NOTES:

- 1- READ THIS DRAWING IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- 2- THE LOCATION OF COLUMN SHALL BE ADJUSTED W.R.T THE LOCATION OF THE PUMPS IN UGWT.



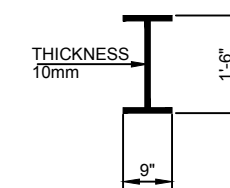
TYP. PLINTH PROTECTION






PAD P-1

PAD P-2

PAD P-3



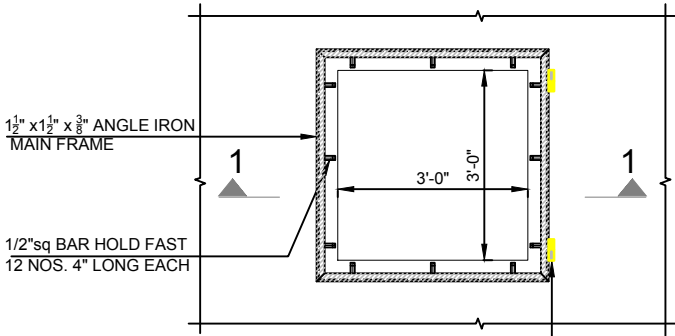
DETAIL-D

<div>Consultants</div> <div><div><div>CENTRAL DESIGN CELL</div><div>2nd Floor, CTI Building, 27-Emress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com</div></div></div>	<div>Client</div> <div><div>GOVERNMENT OF PUNJAB</div></div> <div><div>Punjab Municipal Development Fund Company Department (PMDFC)</div></div>	Financing Agency	Rev.	Date	Description	Checked	Approved	Title	Designed	MMP	
		WORLD BANK								Drawn	MMP
										Checked	MMP
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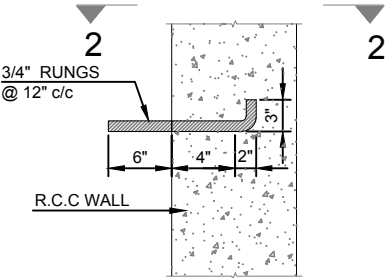


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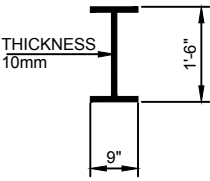
- 1- READ THIS DRAWING IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.  
2- THE LOCATION OF COLUMN SHALL BE ADJUSTED W.R.T THE LOCATION OF THE PUMPS IN UGWT.



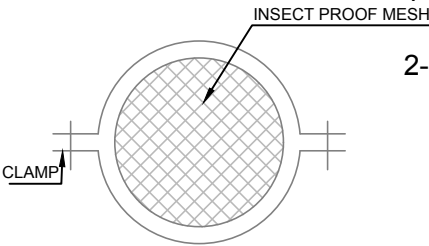
HINGE WELDED TO ANGLE  
DETAIL A  
OPENING PLAN



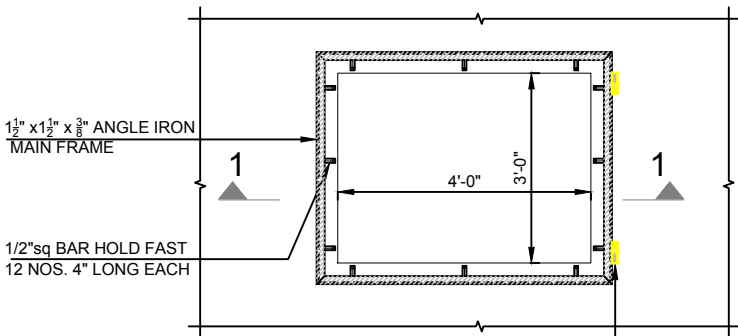
DETAIL C



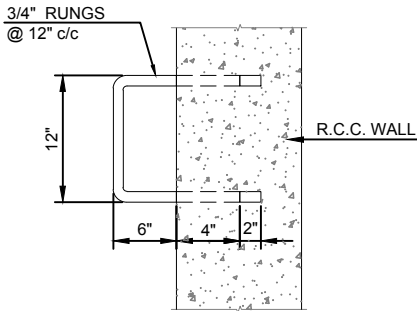
DETAIL-D



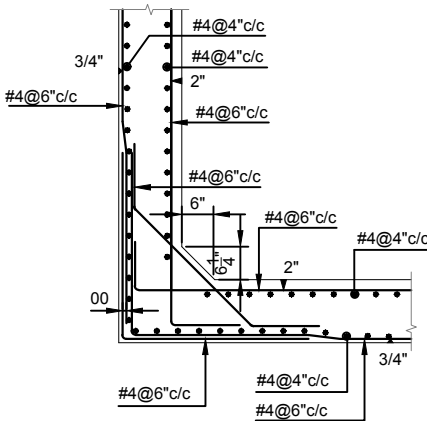
TYP. CLAMP DETAILS



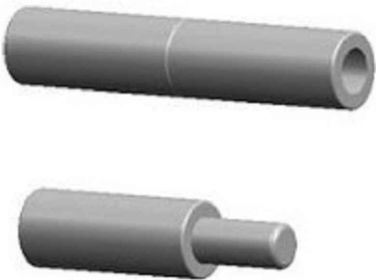
HINGE WELDED TO ANGLE  
DETAIL B  
OPENING PLAN



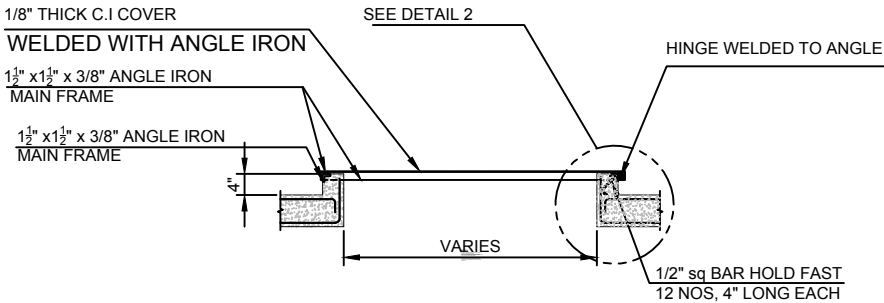
SECTION 2-2



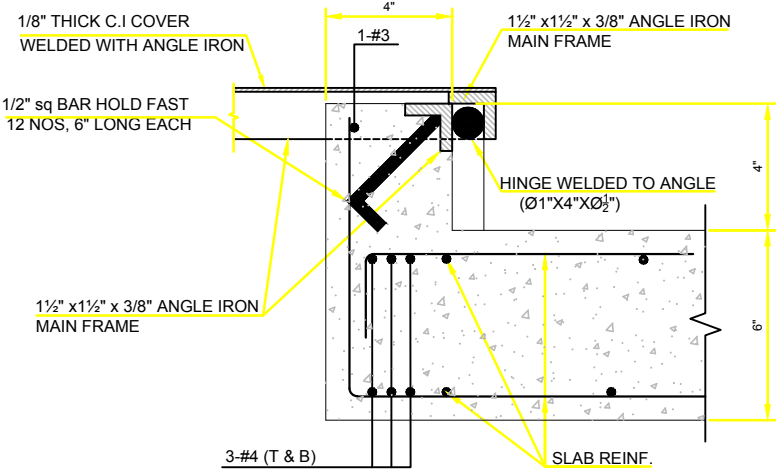
DETAIL 1



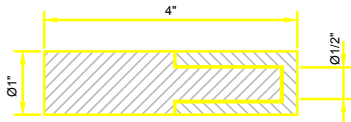
VIEW OF HINGE






SECTION 1-1

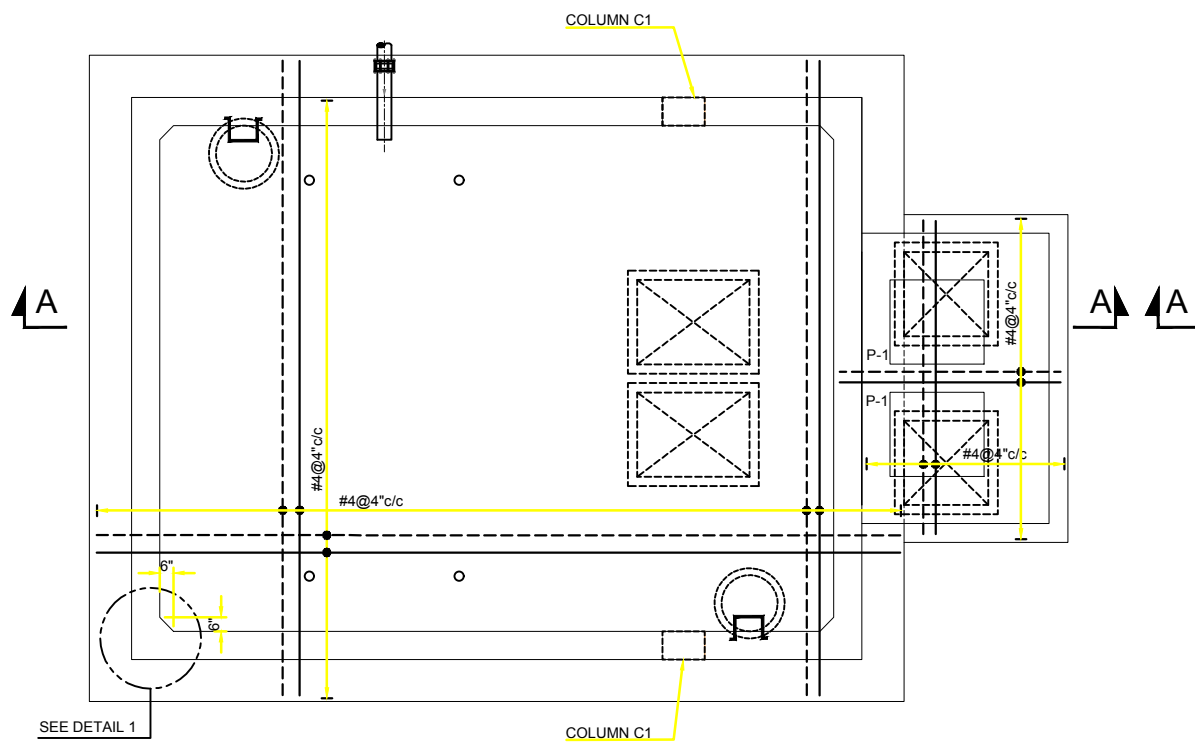


DETAIL 2

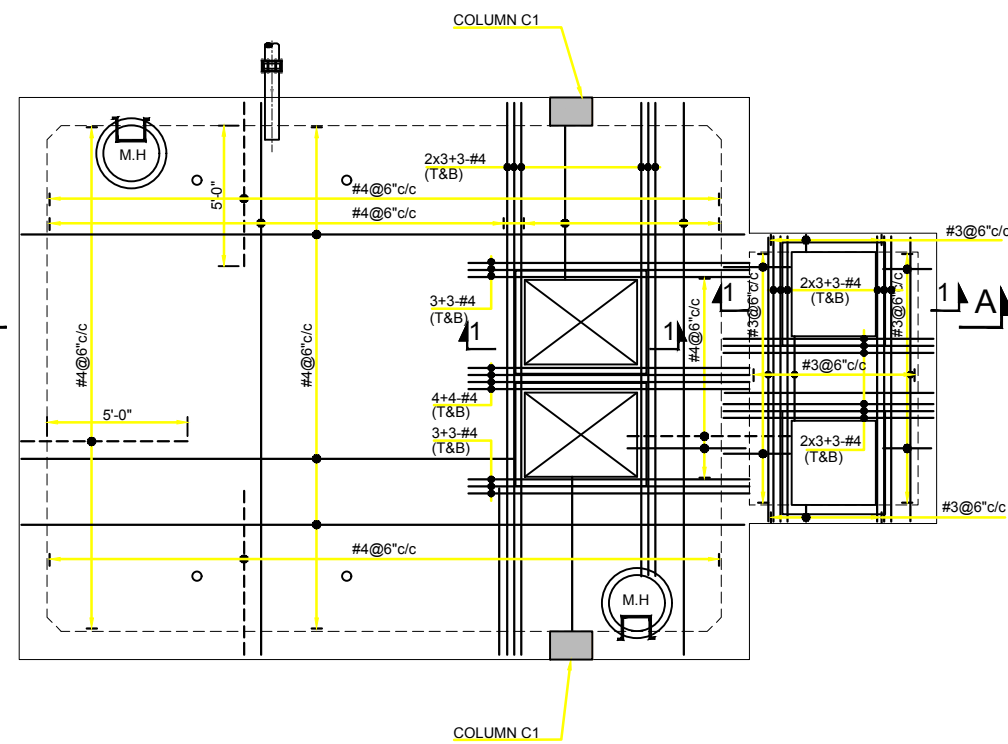


PLAN OF HINGE

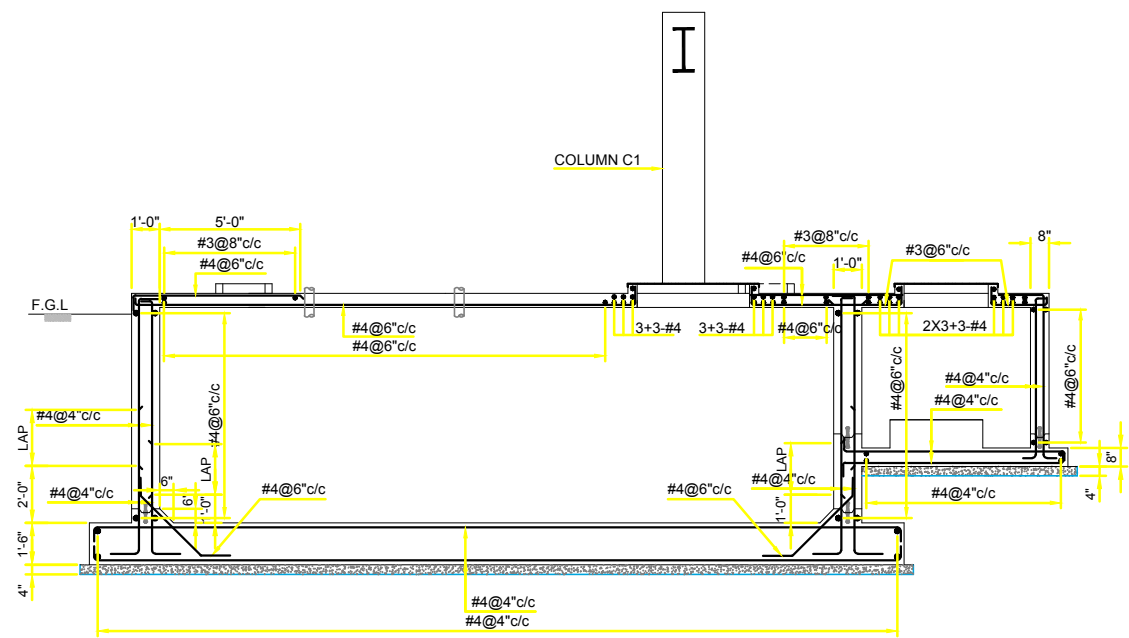
<div>Consultants</div> <div></div> <div>CENTRAL DESIGN CELL 2nd Floor, CTI Building, 27-Empress Road, Lahore 042-36292525-7 cdc.mmp@mmpakistan.com http://www.mmpakistan.com</div>	<div>Client</div> <div></div> <div>GOVERNMENT OF PUNJAB</div> <div></div> <div>Punjab Municipal Development Fund Company Department (PMDFC)</div>	Financing Agency	WORLD BANK	Rev.	Date	Description	Checked	Approved	Title	UNDER GROUND WATER TANK DETAIL-2	Designed	MMP
											Drawn	MMP
											Checked	MMP
											Approved	PMDFC
											Scale	
											Drawing No. MMP-1074P01-JHE-PARK-TYP-WT-AR-502	Rev No:
						163						



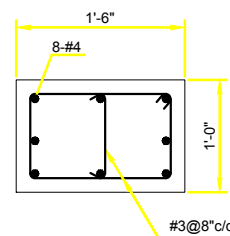
FOUNDATION PLAN



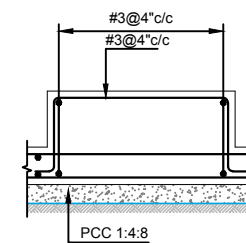
TOP PLAN



SECTION A-A



COLUMN C1

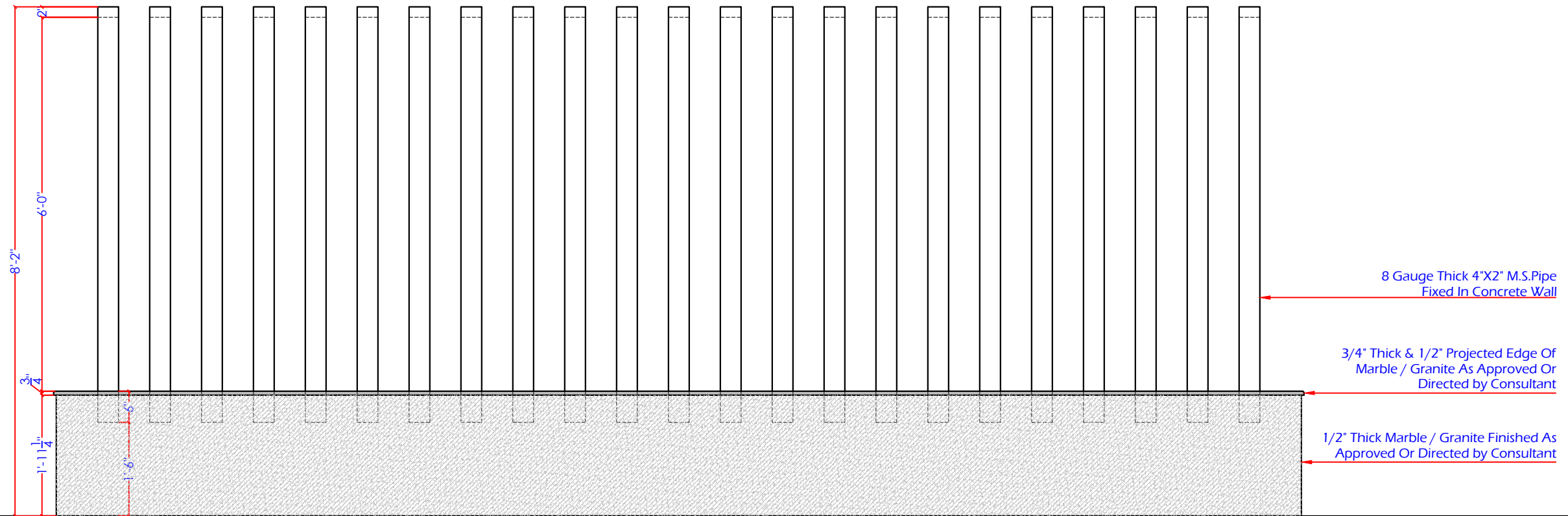


PAD P-1

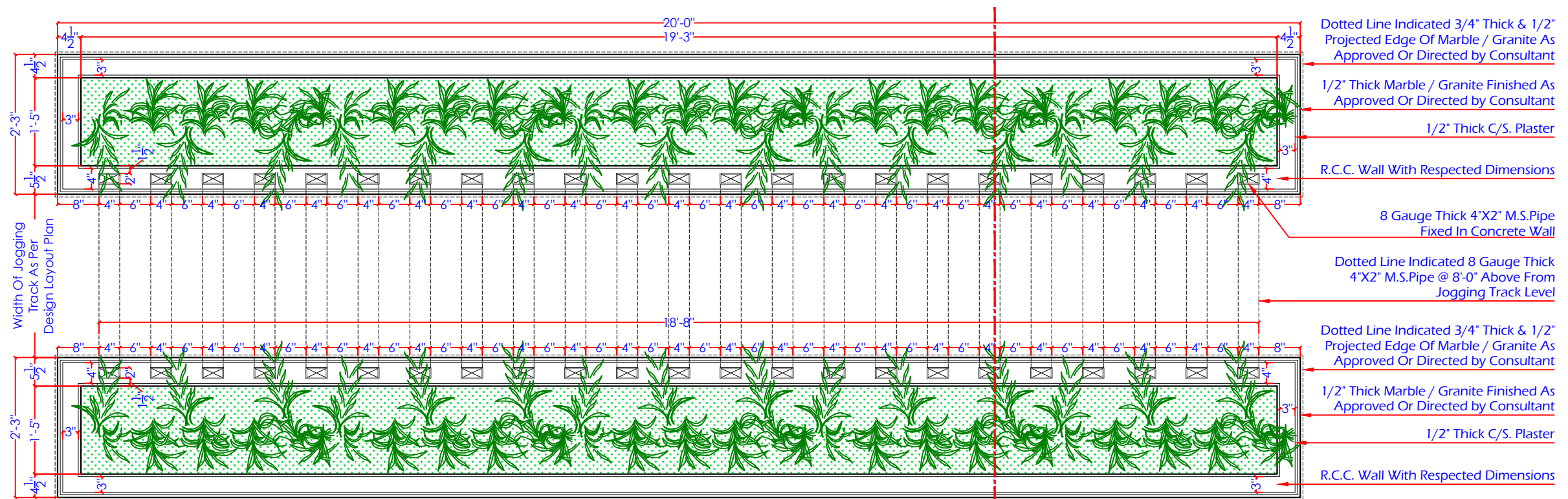
## NOTES:

- 1- READ THIS DRAWING IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
- 2- THE LOCATION OF COLUMN SHALL BE ADJUSTED W.R.T THE LOCATION OF THE PUMPS IN UGWT.





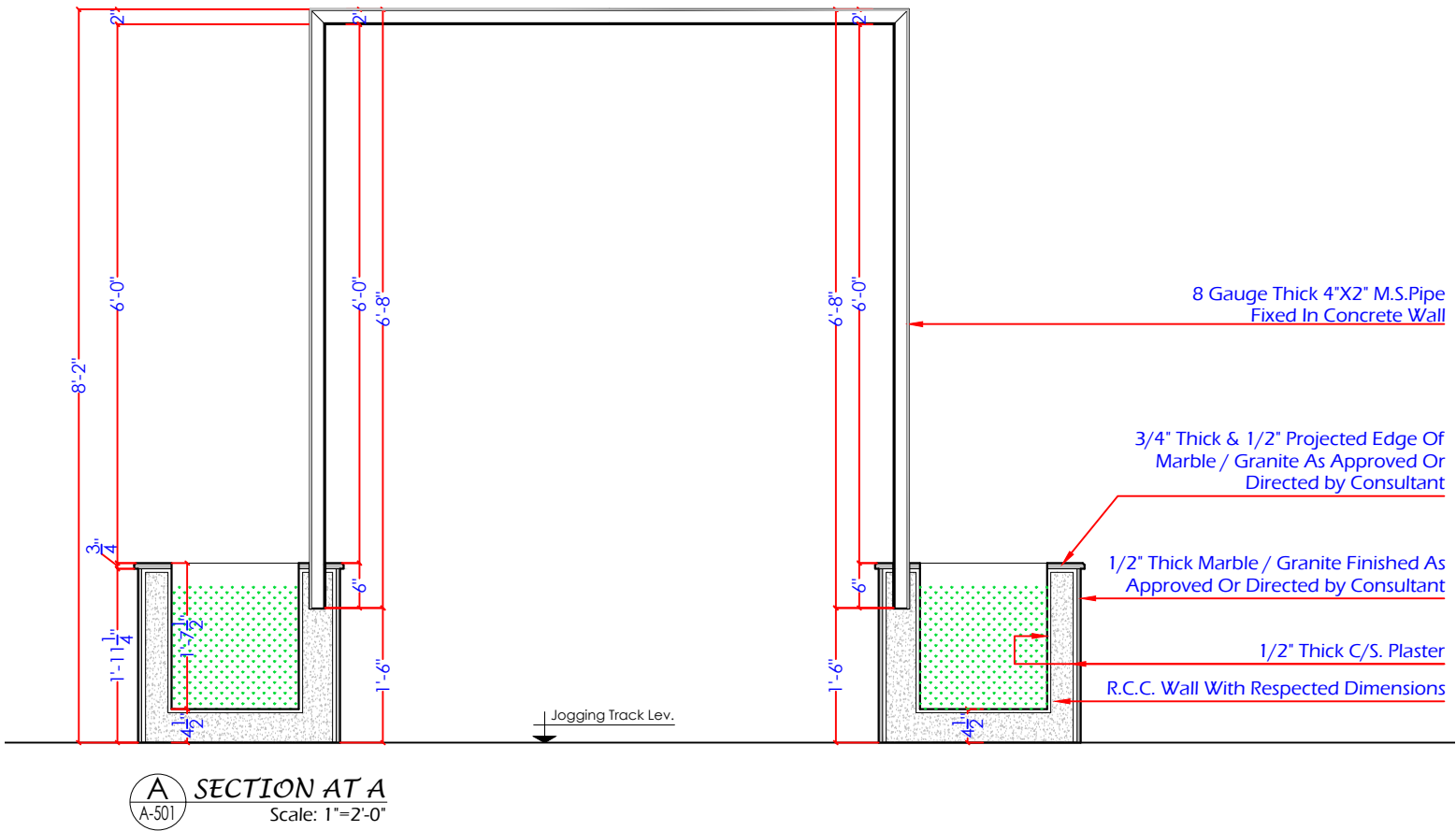
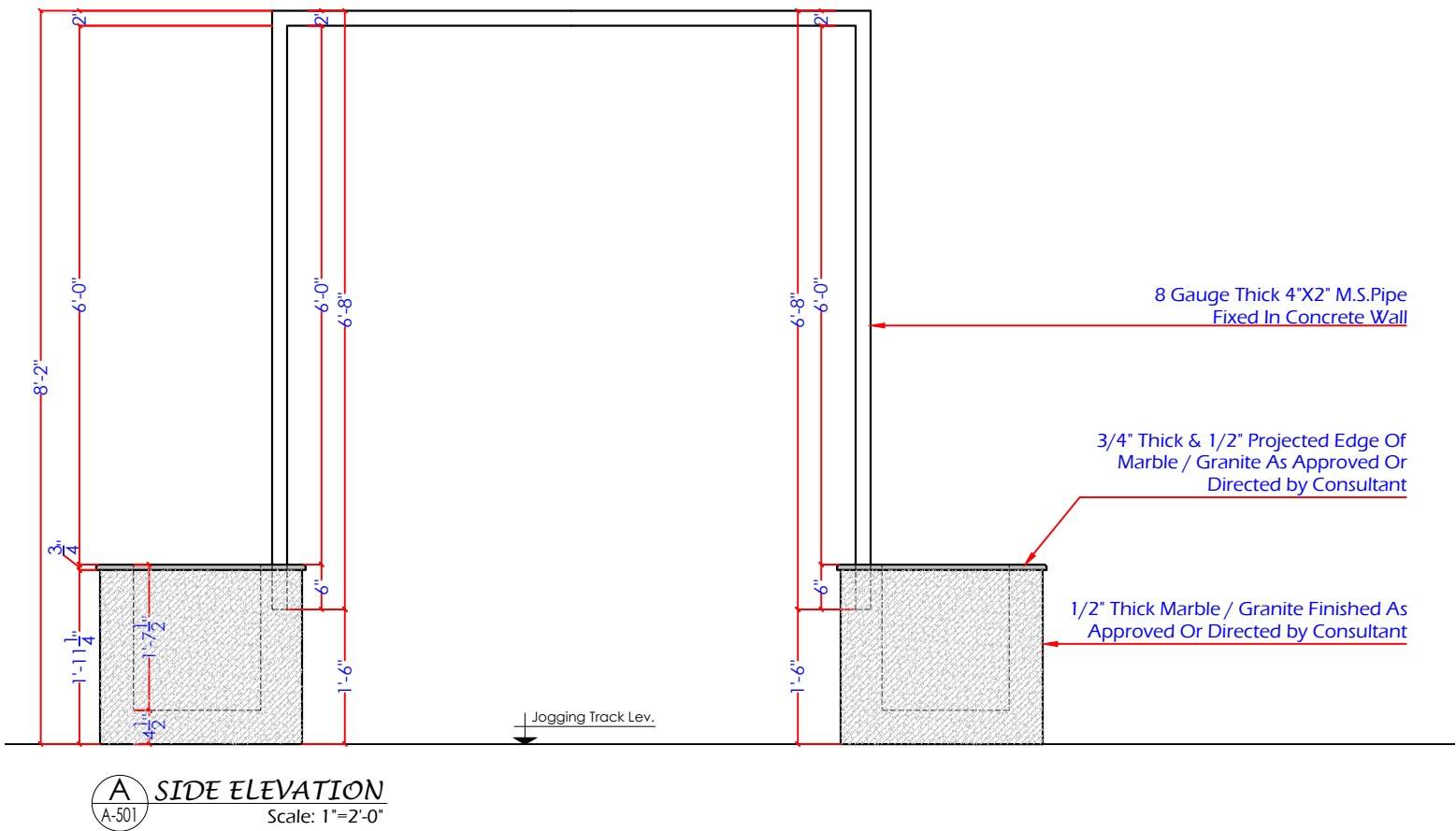
**A FRONT ELEVATION**  
A-501  
Scale: 1"=2'-0"



**A WORKING LAYOUT PLAN**  
A-501  
Scale: 1"=2'-0"



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							Drawn		MMP	
							Checked		MMP	
							Approved		PMDFC	
							Scale		As Shown	
		<div>Project</div> <div>Punjab Cities Program (PCP)</div>								Rev No:
		165						<div>Drawing No.</div> <div>MMP-1074P01-JHE-PARK-TYP-VT1-AR-501</div>		



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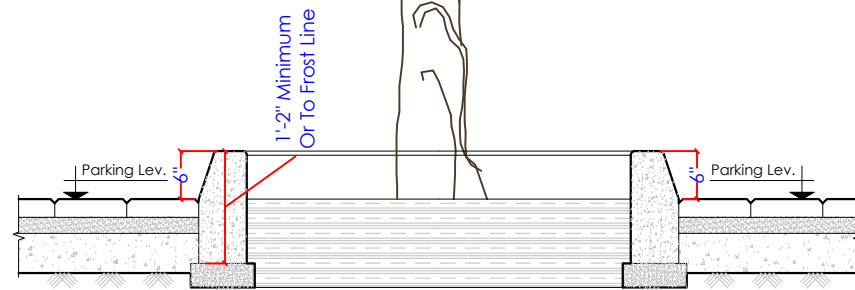
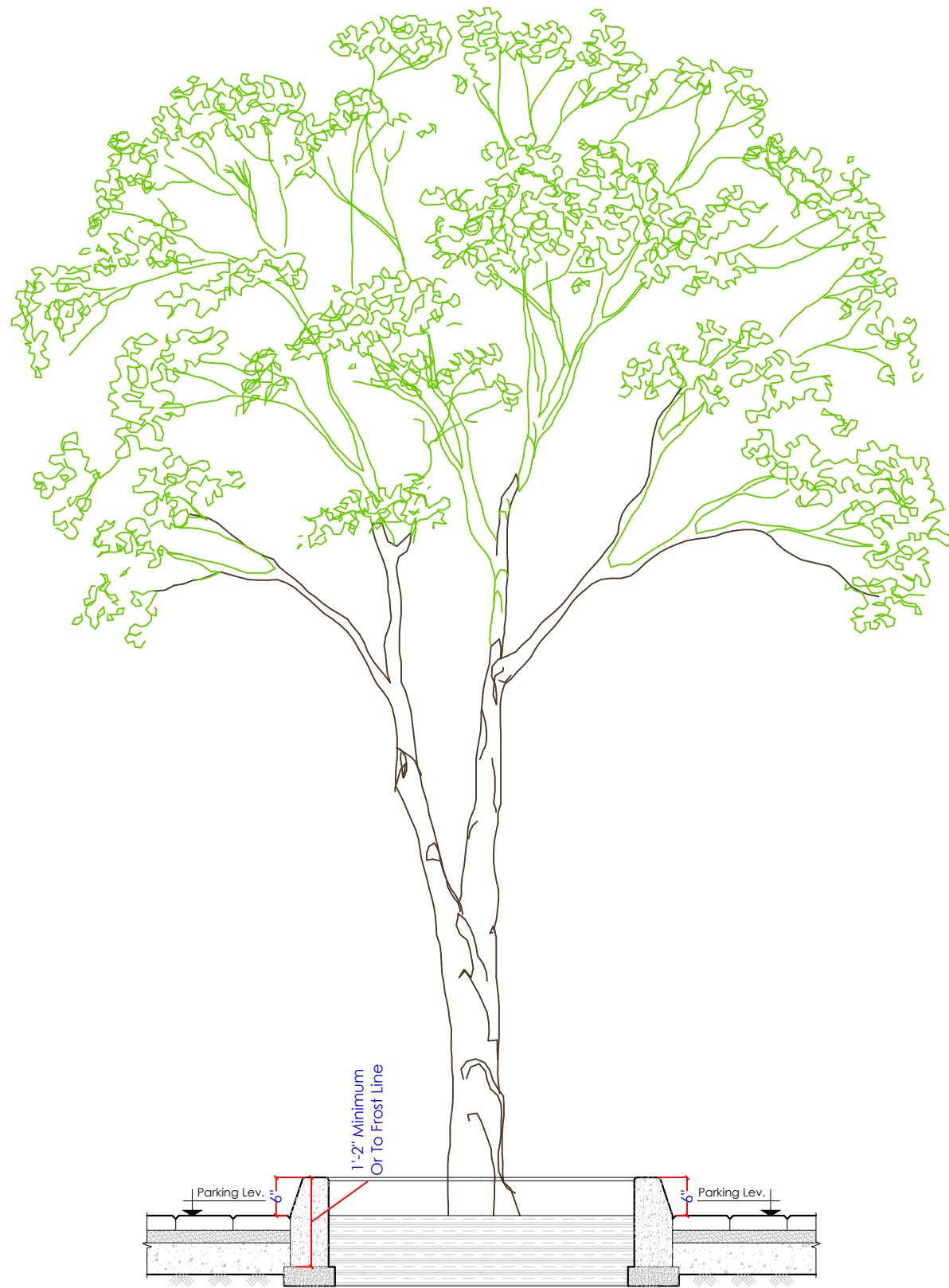
Client  
**GOVERNMENT OF PUNJAB**  
Punjab Municipal Development  
Fund Company  
Department (PMDFC)

Financing Agency  
**WORLD BANK**  
Project  
Punjab Cities Program (PCP)

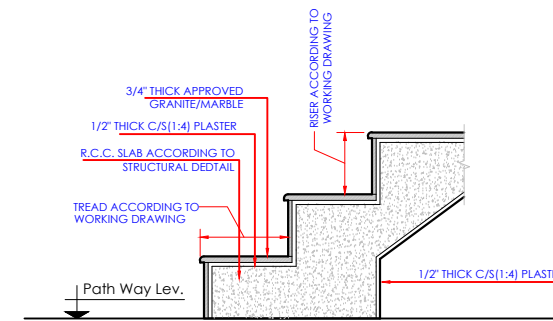
Rev.	Date	Description	Checked	Approved
00	18-09-2022		Jahanzaib	Ashfaq

Title  
**VINE TUNNEL DETAIL-02  
TYPE-B**  
Drawing No.  
MMP-1074P01-JHE-PARK-TYP-VT1-AR-502

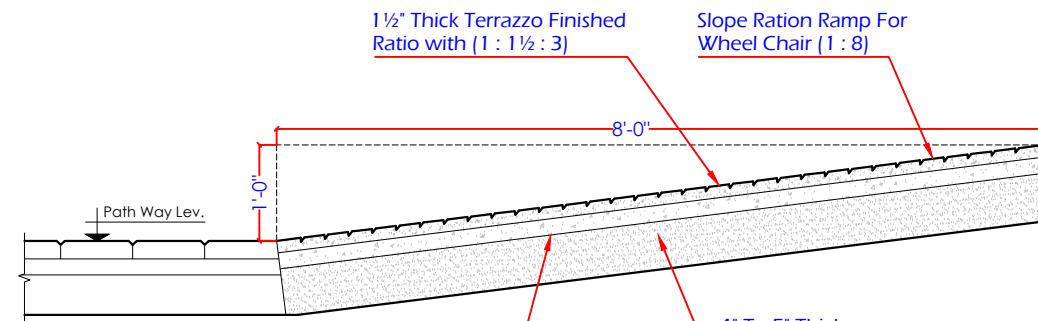
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Checked	MMP
Approved	PMDFC
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Rev No:	0



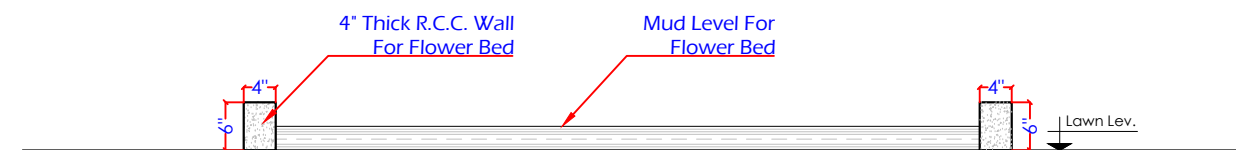
**A PLANTER FOR PARKING**  
A-501  
Scale: 1"=2'-0"



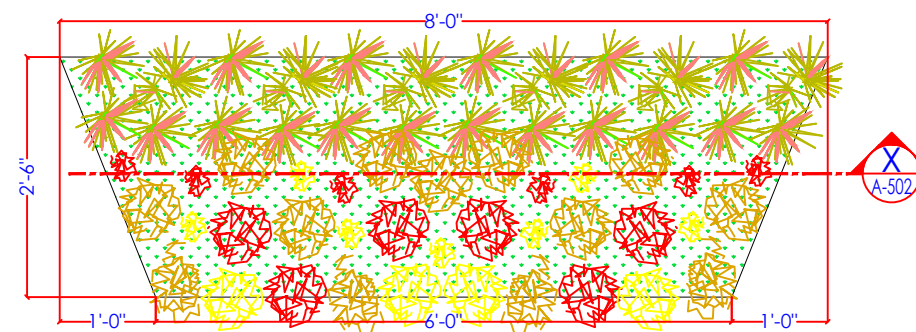
**A STEPS DETAIL**  
A-501  
Scale: 1"=2'-0"



**A RAMP DETAIL**  
A-501  
Scale: 1"=2'-0"



**A SECTION AT X**  
A-501  
Scale: 1"=2'-0"



**A WORKING LAYOUT PLAN**  
A-501  
Scale: 1"=2'-0"

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**GOVERNMENT OF PUNJAB**  
Punjab Municipal Development  
Fund Company  
Department (PMDFC)

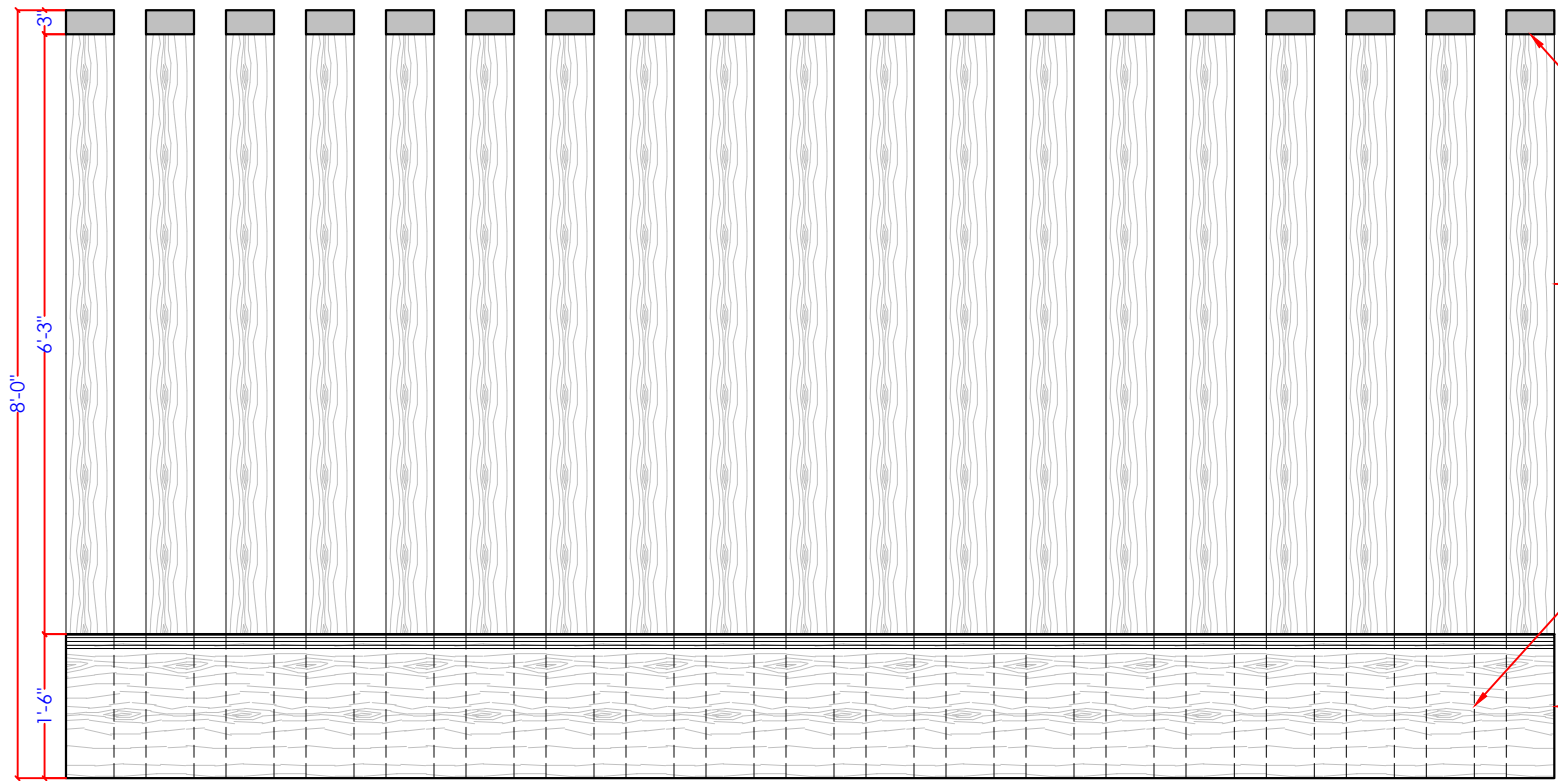
Financing Agency  
**WORLD BANK**  
Project  
Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved
00	18-09-2022		Jahanzaib	Ashfaq

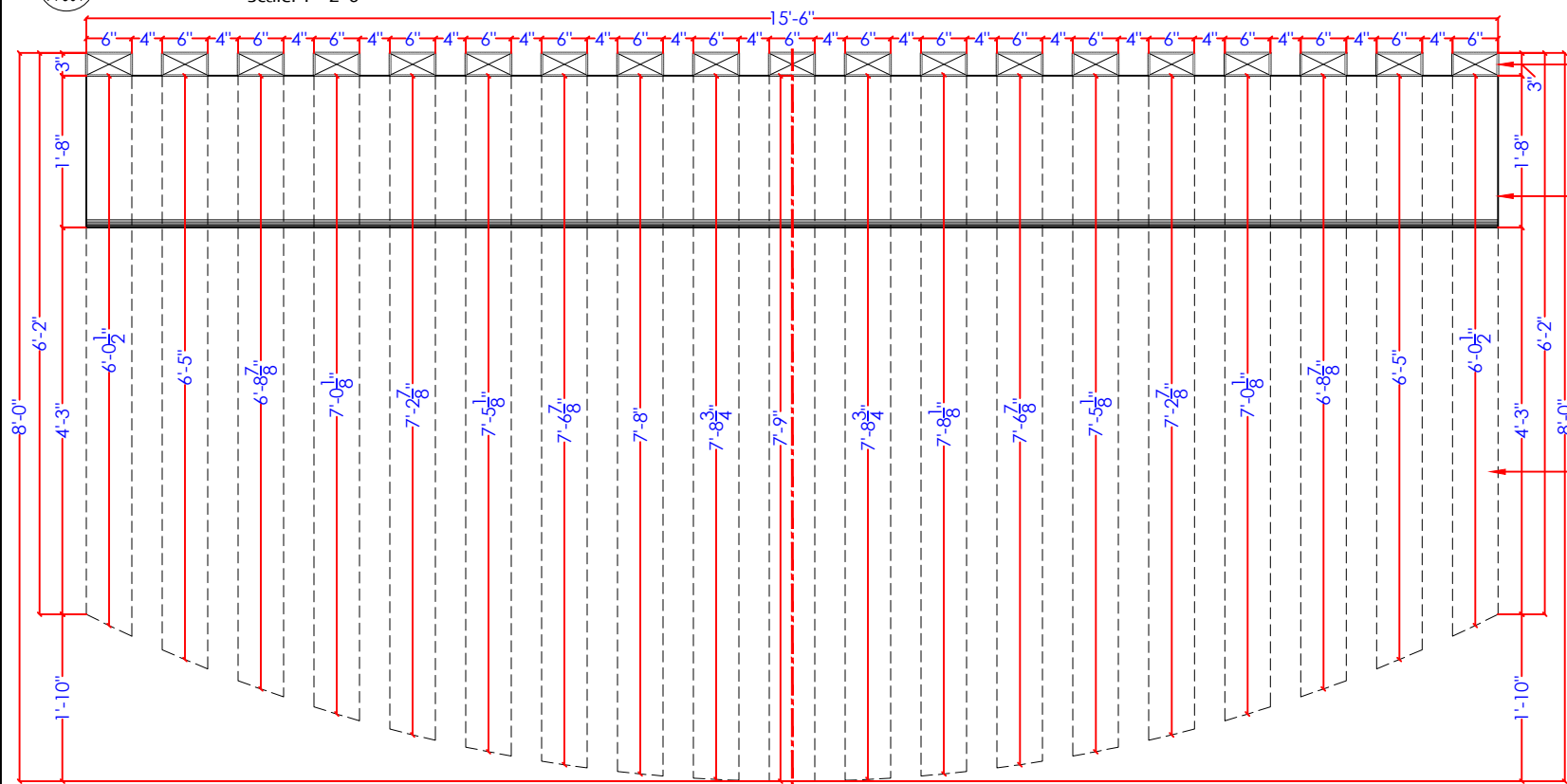
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**STEPS / RAMP / KEYARI /  
PLANTER DETAIL**  
Drawing No.  
MMP-1074P01-JHE-PARK-TYP-VT1-AR-501

Designed	MMP
Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale	As Shown
Rev No:	0





**A FRONT ELEVATION**  
A-501  
Scale: 1"=2'-0"



**A WORKING LAYOUT PLAN (P-4)**  
A-501  
Scale: 1"=2'-0"



(Horizontal Members) 8 Gauge Thick 6"x3"  
M.S.Pipe Connected with Vertical Members  
According Respected Dimensions

(Vertical Members) 8 Gauge Thick 6"x3"  
M.S.Pipe Fixed In Concrete Pad With  
M.S.Plate, Bolt & Washers

Dotted Line Indicated (Vertical Members) 8  
Gauge Thick 6"x3" M.S.Pipe Fixed In Concrete  
Pad With M.S.Plate, Bolt & Washers

Cold Rolled M.S. Sheet Fixed on  
Sub-Frame & Finished With Wooden  
Texture On Bench

8 Gauge Thick 6"x3"  
M.S.Pipe Fixed In Concrete  
Pad With M.S.Plate, Bolt &  
Washers

Cold Rolled M.S. Sheet Fixed  
on Sub-Frame & Finished  
With Wooden Texture

Dotted Line Indicated 8  
Gauge Thick 6"x3"  
M.S.Pipe Connected with  
Vertical Members  
According Respected  
Dimensions

(Horizontal Members) 8 Gauge Thick 3"x6"  
M.S.Pipe Connected with Vertical Members  
According Respected Dimensions

(Vertical Members) 8 Gauge Thick 6"x3"  
M.S.Pipe Fixed In Concrete Pad With  
M.S.Plate, Bolt & Washers

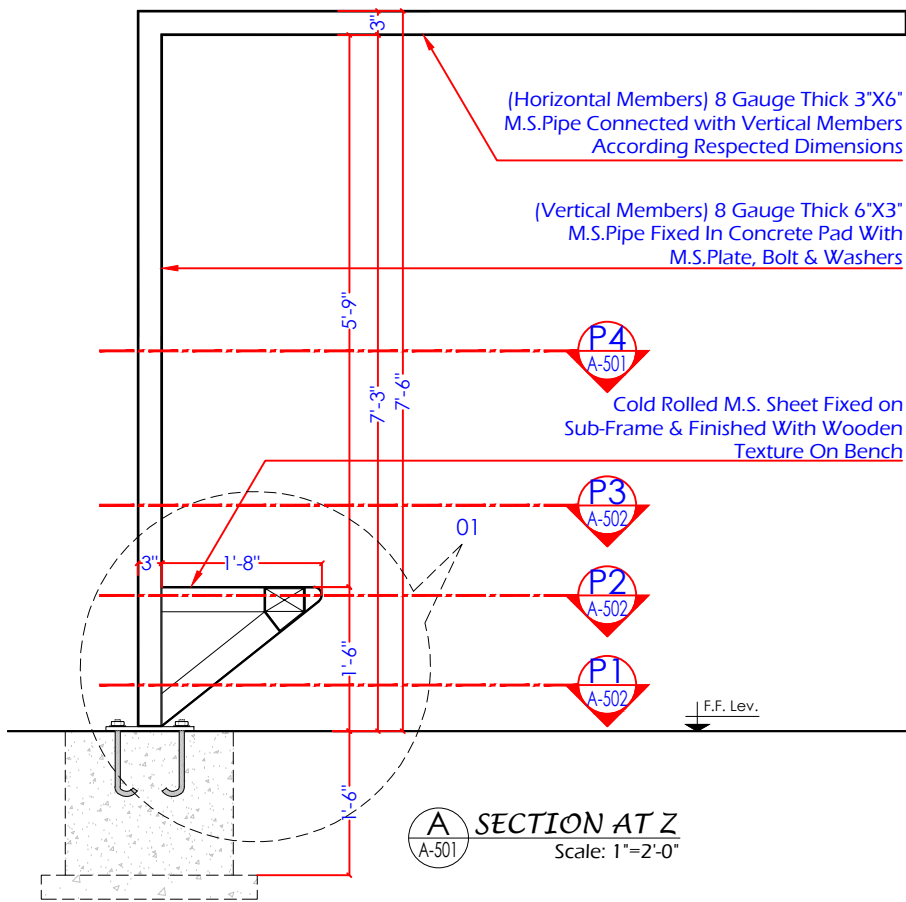
**P4**  
A-501  
Cold Rolled M.S. Sheet Fixed on  
Sub-Frame & Finished With Wooden  
Texture On Bench

**P3**  
A-502

**P2**  
A-502

**P1**  
A-502

**A SECTION AT Z**  
A-501  
Scale: 1"=2'-0"



(Vertical Members) 8 Gauge Thick 6"x3"  
M.S.Pipe Fixed In Concrete Pad With  
M.S.Plate, Bolt & Washers

Weld Pipes With Each Others

(Sub-Frame) 10 Gauge Thick 5"x3" M.S.Pipe  
Connected With Horizontal Members

Cold Rolled M.S. Sheet Fixed  
Round Edge With 1" Radius

Cold Rolled M.S. Sheet Fixed on  
Sub-Frame & Finished With Wooden  
Texture On Bench

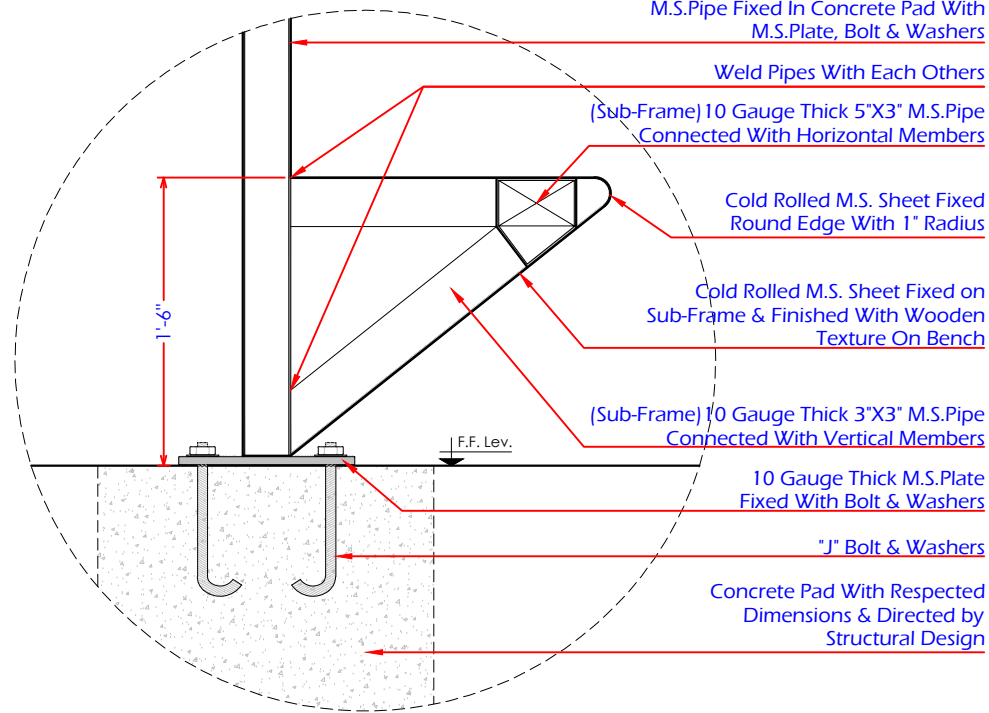
(Sub-Frame) 10 Gauge Thick 3"x3" M.S.Pipe  
Connected With Vertical Members




10 Gauge Thick M.S.Plate  
Fixed With Bolt & Washers

"J" Bolt & Washers

Concrete Pad With Respected  
Dimensions & Directed by  
Structural Design

**A DETAIL-01**  
A-501  
Scale: 1"=1'-0"















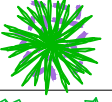



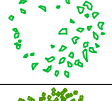











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		WORLD BANK								Drawn	MMP
										Checked	MMP
										Approved	PMDFC
										Scale	As Shown
										Rev No:	0
Project											



Drawing file path & name: \\1. sheeraz\014-clies\pnp\03. Jhelum\Jhelum UPDATED 24.01.2023\2. Alt of Park\Typical Drawings for Jhelum\1.dwg LG-AR-501 Legend

## LEGEND

1	Terminalia Tree		
2	Phoenix Palm		
3	Alstonia tree		
4	GulMohar Tree		
5	Jacaranda Tree		
6	Yucca		
7	Rain Tree		
8	Plumbago		
9	Bismarkia		
10	Conocapus		
11	Cone Topiary		
12	Lantana		
13	Bird Of Paradise		
14	Foxtail Palm		

15 Star Jasmine



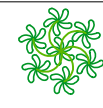
16 Jatropha



17 Kaner



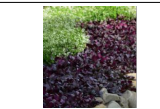
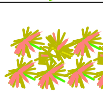
18 Bougain Plant



19 Lagerstroemia



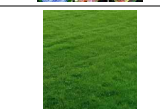
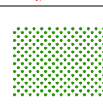
20 Alternanthera



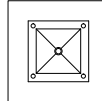
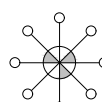
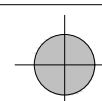
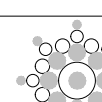
21 Flowers



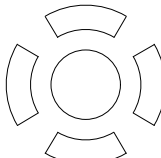


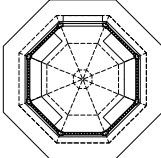
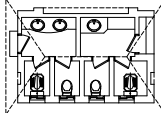
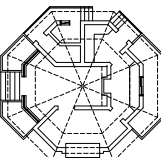
22 Fine Dhaka Grass



## LEGEND

01	Lawn Light Pole	
02	High Luminance / Mast Pole	
03	Three Phase Pole For Electric Swings	
04	35' High Light Pole	

## LEGEND

01	Concrete Bench with M.S.Table	
02	Concrete Bench	
03	Wrought Iron Bench	
04	Gazebo	
05	Public Toilets	
06	Cafeteria	
07	Storage Tank	