

LOCAL GOVERNMENT & COMMUNITY DEVELOPMENT DEPARTMENT



Punjab Cities Program

PC-I Form

For

REHABILITATION OF 1 EXISTING PARK IN JHELUM CITY

ESTIMATED COST: PKR 107.46 MILLION

(Based on MRS 1st Biannual 2023)

March 2023

MUNICIPAL COMMITTEE, JHELUM

**Punjab Cities Program
PC-I Form**

Rehabilitation of 1 Existing Park in Jhelum City

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PC-I FORM
FOR
REHABILITATION OF 1 EXISTING PARK IN JHELUM CITY, DISTRICT JHELUM

Project Serial Number:

Sector: Social Sector
Sub Sector: Parks

1. Name of the project	Punjab Cities Program Rehabilitation of 1 Existing Park and Construction of 1 New Park in Jhelum City										
2. Location	<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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Sr. No.</th> <th style="width: 50%;">Name of Park</th> <th colspan="2" style="width: 40%;">Location</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Altaf park</td> <td style="text-align: center;">73.72644"E</td> <td style="text-align: center;">32.92175"N</td> </tr> </tbody> </table> <p>The location map of 2 parks is attached at Annexure-A.</p>			Sr. No.	Name of Park	Location		1	Altaf park	73.72644"E	32.92175"N
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1	Altaf park	73.72644"E	32.92175"N								
3. Authorities responsible for											
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										

4a. Plan Provision											
<p>i. If the project is included in medium term/five-year plan, specify actual allocation</p> <p>ii- If not included in the current plan, what warrants its inclusion and how it is now proposed to be accommodated</p> <p>iii If the project is proposed to be financed out of block provision indicate.</p>	<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" data-bbox="491 416 1441 813"> <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>Total Program cost</td> <td>236.00 million USD</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> <p>Not applicable</p> <p>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.</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	Total Program cost	236.00 million USD
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Total Program cost	236.00 million USD										
4b- Provision in the current year PSDP/ADP	Rs.398.29 million under ADP 2022-23.										

<p>5. Project objectives and its relationship with sector objectives</p>	<p><u>Sector Objectives</u></p> <p>The sector objectives include:</p> <ol style="list-style-type: none"> 1. Community development through improving basic infrastructure. 2. Clean and green environment for better living standards. 3. Effective use of land through master planning of urban areas. 4. Social uplifting and cohesion through rehabilitation of public open spaces and playgrounds. 5. Capacity building of Local Governments MCs in municipal service delivery.
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6. Description, justification, technical parameters, and technology transfer aspects

<p>i. Present Condition</p>	<p>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.</p> <table border="1" data-bbox="486 851 1441 967"> <thead> <tr> <th>Sr. No.</th> <th>Name</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Altaf Park</td> <td>9 Acre</td> </tr> </tbody> </table>	Sr. No.	Name	Area	1	Altaf Park	9 Acre
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1	Altaf Park	9 Acre					

<p>ii. Description of the sub-project</p>	<p>The project comprises rehabilitation of 1 existing parks with the addition/replacement of damaged item/facilities.</p>
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<p>iii. Detail of civil works, equipment & machinery, and other physical facilities</p>	<p>The detail of items / works to be construct in the new parks, is given below;</p> <table border="1" data-bbox="486 1507 1406 2056"> <thead> <tr> <th>Sr No</th> <th>Project</th> <th>Scope</th> <th>Detail Scope of Work</th> <th>Area of Park</th> </tr> </thead> <tbody> <tr> <td rowspan="8">1</td> <td rowspan="8">Altaf Park</td> <td rowspan="8">Rehabilitation of Park</td> <td>Construction of Walkway</td> <td rowspan="8">9 Acre</td> </tr> <tr> <td>Rehabilitation of Boundary wall</td> </tr> <tr> <td>Rehabilitation of Main Gate</td> </tr> <tr> <td>Construction of Toilet Block</td> </tr> <tr> <td>Construction of Cafeteria</td> </tr> <tr> <td>Construction of Gazebos</td> </tr> <tr> <td>Installation of New Benches</td> </tr> <tr> <td>Rehabilitation of Existing Benches</td> </tr> <tr> <td>Installation of New Swings</td> </tr> </tbody> </table>	Sr No	Project	Scope	Detail Scope of Work	Area of Park	1	Altaf Park	Rehabilitation of Park	Construction of Walkway	9 Acre	Rehabilitation of Boundary wall	Rehabilitation of Main Gate	Construction of Toilet Block	Construction of Cafeteria	Construction of Gazebos	Installation of New Benches	Rehabilitation of Existing Benches	Installation of New Swings
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				Construction of Rain Water Storage Tank																																		
				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"> The smooth sailing of the Punjab Cities Program can only be assured when the required staff for maintenance is available with MC Jhelum. 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. 																																					
7- Capital Cost of Project	<p>The summary of the works included in the project is given below; Altaf Park:</p> <table border="1"> <thead> <tr> <th>. No.</th> <th>Description</th> <th>Cost (PKR)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>CIVIL WORKS</td> <td>68,843,939</td> </tr> <tr> <td>B</td> <td>ELECTRICAL WORKS</td> <td>9,839,836</td> </tr> <tr> <td>C</td> <td>WATER SUPPLY AND SEWERAGE WORKS</td> <td>16,586,046</td> </tr> <tr> <td></td> <td style="text-align: right;">Sub-Total (A+B+C)</td> <td>95,269,821</td> </tr> <tr> <td></td> <td style="text-align: right;">Contingencies @2%</td> <td>1,905,396</td> </tr> <tr> <td></td> <td style="text-align: right;">PST @5%</td> <td>4,763,491</td> </tr> <tr> <td></td> <td>Environmental & Social Mitigation Cost</td> <td>753,000</td> </tr> <tr> <td></td> <td style="text-align: right;">Escalation @ 5%</td> <td>4,763,491.06</td> </tr> <tr> <td></td> <td style="text-align: right;">Total Cost</td> <td>107,455,200</td> </tr> <tr> <td></td> <td style="text-align: right;">Total Cost in (Million)</td> <td>107.46</td> </tr> </tbody> </table>					. No.	Description	Cost (PKR)	A	CIVIL WORKS	68,843,939	B	ELECTRICAL WORKS	9,839,836	C	WATER SUPPLY AND SEWERAGE WORKS	16,586,046		Sub-Total (A+B+C)	95,269,821		Contingencies @2%	1,905,396		PST @5%	4,763,491		Environmental & Social Mitigation Cost	753,000		Escalation @ 5%	4,763,491.06		Total Cost	107,455,200		Total Cost in (Million)	107.46
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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	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																																					

estimates be provided.	<p>(MRS) issued by the Government of Punjab (Jhelum 1st biannual 01-01-2023 to 30-06-2023).</p> <p>For items not available in the MRS, the same have been analyzed as per prevailing market rates on the basis of quotations attached.</p>																																	
iii- Provide year wise estimation of physical activities	<p>The physical and financial requirements, year-wise are included in the following table:</p> <table border="1" data-bbox="488 510 1441 846"> <thead> <tr> <th data-bbox="488 510 616 589">Sr. No.</th> <th data-bbox="616 510 1203 589">Description</th> <th data-bbox="1203 510 1441 589">Year 2023-24</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 589 616 651">1</td> <td data-bbox="616 589 1203 651">CIVIL WORKS</td> <td data-bbox="1203 589 1441 651">100 %</td> </tr> <tr> <td data-bbox="488 651 616 707">2</td> <td data-bbox="616 651 1203 707">ELECTRICAL WORKS</td> <td data-bbox="1203 651 1441 707">100 %</td> </tr> <tr> <td data-bbox="488 707 616 786">3</td> <td data-bbox="616 707 1203 786">WATER SUPPLY AND SEWERAGE WORKS</td> <td data-bbox="1203 707 1441 786">100 %</td> </tr> <tr> <td data-bbox="488 786 616 846">4</td> <td data-bbox="616 786 1203 846">TAXES</td> <td data-bbox="1203 786 1441 846">100 %</td> </tr> </tbody> </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 %																		
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iv- Phasing of capital cost on the basis of each item of work.	<p>The phasing of capital cost of the project is included in the following table:</p> <table border="1" data-bbox="488 987 1441 1715"> <thead> <tr> <th data-bbox="488 987 636 1066">Sr. No.</th> <th data-bbox="636 987 1211 1066">Description / Items</th> <th data-bbox="1211 987 1441 1066">Year 2023-24</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 1066 636 1144">1</td> <td data-bbox="636 1066 1211 1144">CIVIL WORKS</td> <td data-bbox="1211 1066 1441 1144">68,843,939</td> </tr> <tr> <td data-bbox="488 1144 636 1200">2</td> <td data-bbox="636 1144 1211 1200">ELECTRICAL WORKS</td> <td data-bbox="1211 1144 1441 1200">9,839,836</td> </tr> <tr> <td data-bbox="488 1200 636 1279">3</td> <td data-bbox="636 1200 1211 1279">WATER SUPPLY AND SEWERAGE WORKS</td> <td data-bbox="1211 1200 1441 1279">16,586,046</td> </tr> <tr> <td data-bbox="488 1279 636 1346"></td> <td data-bbox="636 1279 1211 1346" style="text-align: right;">Cost A+B+C</td> <td data-bbox="1211 1279 1441 1346">95,269,821</td> </tr> <tr> <td data-bbox="488 1346 636 1402"></td> <td data-bbox="636 1346 1211 1402" style="text-align: right;">Contingencies @2%</td> <td data-bbox="1211 1346 1441 1402">1,905,396</td> </tr> <tr> <td data-bbox="488 1402 636 1458"></td> <td data-bbox="636 1402 1211 1458" style="text-align: right;">PRA@ 5%</td> <td data-bbox="1211 1402 1441 1458">4,763,491</td> </tr> <tr> <td data-bbox="488 1458 636 1536"></td> <td data-bbox="636 1458 1211 1536" style="text-align: center;">Environmental & Social Mitigation Cost</td> <td data-bbox="1211 1458 1441 1536">753,000</td> </tr> <tr> <td data-bbox="488 1536 636 1592"></td> <td data-bbox="636 1536 1211 1592" style="text-align: right;">Escalation @ 5%</td> <td data-bbox="1211 1536 1441 1592">4,763,491.06</td> </tr> <tr> <td data-bbox="488 1592 636 1648"></td> <td data-bbox="636 1592 1211 1648" style="text-align: right;">Grand Total</td> <td data-bbox="1211 1592 1441 1648">107,455,200</td> </tr> <tr> <td data-bbox="488 1648 636 1715"></td> <td data-bbox="636 1648 1211 1715" style="text-align: right;">Total in Million</td> <td data-bbox="1211 1648 1441 1715">107.46</td> </tr> </tbody> </table>	Sr. No.	Description / Items	Year 2023-24	1	CIVIL WORKS	68,843,939	2	ELECTRICAL WORKS	9,839,836	3	WATER SUPPLY AND SEWERAGE WORKS	16,586,046		Cost A+B+C	95,269,821		Contingencies @2%	1,905,396		PRA@ 5%	4,763,491		Environmental & Social Mitigation Cost	753,000		Escalation @ 5%	4,763,491.06		Grand Total	107,455,200		Total in Million	107.46
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8-Annual recurrent cost after completion of the project and source of financing	<p>The annual O&M cost is 4.675 million of the Parks maintenance and replacement / rehabilitation and also has been attached in Annexure B.</p>																																	

<p>9- Demand & Supply Analysis</p> <p>i- Existing Capacity of services</p>	<p>Existing supply level</p> <p>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.</p> <p>Therefore, rehabilitation of existing parks is inevitable to provide healthy environment to the community in Jhelum city.</p>
<p>ii- Projected Demand for 10 years</p>	<p>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.</p>
<p>iii- Capacity of other similar projects being implemented in public/private sector</p>	<p>No other project of this nature is being implemented in the public as well as private sector because of funding constraints in the MC.</p>
<p>iv- Supply and Demand gaps</p>	<p>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.</p>
<p>v-Designed capacity and output of the project</p>	<p>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.</p>

<p>10. Financial Plan Sources of financing</p> <p><u>Debt</u></p> <p>a) Indicate the local and foreign debt Loan</p>	<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" data-bbox="491 304 1441 741"> <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 & 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> </table> <p>This project will be funded under this financing.</p>	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
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20% share of Municipalities is equivalent to	36 million USD										
Total funds available for Infrastructure Development	216 million USD										
<p>b) Equity</p>	<p>A. Loan / Grant to MC</p> <p>The amount of loan converted to grant to MC Jhelum will be PKR 107.46 million the financing of the project will be as given below:</p> <table border="1" data-bbox="539 1003 1441 1335"> <tr> <td>Grant to Unit for the year 2023-24 (80% of Cost of PC-I)</td> <td>PKR 85.96 million</td> </tr> <tr> <td>20% Co-finance by MC (20% of the Cost of PC-I)</td> <td>PKR 21.49 million</td> </tr> <tr> <td>Total available funds (Total Cost of PC-I)</td> <td>PKR 107.46 million</td> </tr> </table> <p>B. Project Cost: PKR 107.46 million</p> <p>*The loan is from World Bank to Government of Pakistan/Punjab, which will trickle down to MC Jhelum as grant.</p>	Grant to Unit for the year 2023-24 (80% of Cost of PC-I)	PKR 85.96 million	20% Co-finance by MC (20% of the Cost of PC-I)	PKR 21.49 million	Total available funds (Total Cost of PC-I)	PKR 107.46 million				
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Total available funds (Total Cost of PC-I)	PKR 107.46 million										
<p>c) Grants</p>	<p>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.</p>										
<p>d) Weighted cost of capital</p>	<p>Nil</p>										
<p>11-Project benefits and analysis</p>											
<p>i. Financial (including cost-benefit ratio):</p>	<p>Annexure-C.</p>										

Income to the project with assumption							
ii.Social benefits to the target group							
iii.Environmental Impact negative / positive	Annexure-E.						
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 Annexure-C						
v.Unit cost analysis	The unit cost analysis is produced below; <table border="1" data-bbox="491 936 1410 1155"> <tr> <td>Project Capital Cost</td> <td>PKR 107.46 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 539.00 Rs</td> </tr> </table>	Project Capital Cost	PKR 107.46 million	Population of the city in year 2022	199,211persons	Unit capital cost per capita	PKR 539.00 Rs
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Population of the city in year 2022	199,211persons						
Unit capital cost per capita	PKR 539.00 Rs						
vi.Employment generation (Direct and indirect)	<u>Employment Analysis</u> Direct Employment a) Planning and Design of Projects 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. b) Execution of the Project a) PMDFC 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: <ul style="list-style-type: none"> • Civil Engineers / architects • Accounts, administration and audit personnel • Urban planners • GIS experts 						

	<ul style="list-style-type: none"> • Support staff like computer operators, vehicle drivers, office boys and guards. • Procurement experts • Communication experts • Environmental and social experts • Contract management experts <p>b) Consultants 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>c) Municipality Jhelum MC has regular staff like engineers, sub engineers and other administrative & 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>d) Contractor The contractor responsible for execution of the sub project will employ technical staff, technicians and skilled / unskilled labor on this work.</p> <p>Indirect Employment 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 project cost and viability	Delays in the project will cause the total cost of the project to go up. The sensitivity analysis table shows (Attached as Annexure-C) the net present value of the project if the delay causes the total cost of the project to rise by 10 percent.
12-Implementation Schedule	
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 06 months .
b) Item wise/year wise schedule in line chart	The Gant chart has been attached as Annexure-D .
13- Management Structure and manpower requirements	
i. Administrative arrangements for the	<p>Execution of the project</p> <ul style="list-style-type: none"> • The project will be executed by MC Jhelum and will be supervised by the Consultants appointed by PMDFC in resident supervision mode.

<p>implementation of the project</p>	<p>The technical staff & 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 & CDD & World bank and troubleshooting will also be responsibility of PMDFC.</p> <ul style="list-style-type: none"> • MO (I&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. • The Procurement Committee of MC Jhelum will do the procurement of works and goods as per PPRA Rules. 																
<p>ii- The manpower requirements by skills during execution and operation of the project and;</p> <p>The job description, qualification, experience, age and salary of each post</p>	<p>a) PMDFC experts and staff</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) Resident Supervision Consultants</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> <table border="1" data-bbox="520 1137 1414 2007"> <thead> <tr> <th data-bbox="520 1137 580 1249">Sr. No.</th> <th data-bbox="580 1137 842 1249">Personnel</th> <th data-bbox="842 1137 906 1249">No.</th> <th data-bbox="906 1137 1414 1249">Qualification</th> </tr> </thead> <tbody> <tr> <td data-bbox="520 1249 580 1615">1</td> <td data-bbox="580 1249 842 1615">Chief Resident Engineer/Team Leader</td> <td data-bbox="842 1249 906 1615">01</td> <td data-bbox="906 1249 1414 1615">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</td> </tr> <tr> <td data-bbox="520 1615 580 1839">2</td> <td data-bbox="580 1615 842 1839">Senior Engineer</td> <td data-bbox="842 1615 906 1839">01</td> <td data-bbox="906 1615 1414 1839">BSc/BE Civil engineering with minimum 08 years' relevant design experience or MSc engineering, with 5 years on similar assignments in both cases</td> </tr> <tr> <td data-bbox="520 1839 580 2007">3</td> <td data-bbox="580 1839 842 2007">Resident Engineer</td> <td data-bbox="842 1839 906 2007">01</td> <td data-bbox="906 1839 1414 2007">BSc/BE Civil engineering with minimum 10 years' experience in site supervision and execution for projects of similar nature.</td> </tr> </tbody> </table>	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.
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
	4	Assistant Resident Engineer	01	Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature
	5	Site Inspectors	01	DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature
	6	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.
	7	AutoCAD Operator	01	DAE in Civil Technology with minimum 5 years' experience in preparation of drawings for projects of similar nature. (Situating at Lahore office)
	<p>c) Contractor's Technical Staff, Skilled & Un Skilled Labour</p> <p>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 for engineers and skilled and un-skilled will depend upon the type and quantity of work and its period of completion.</p> <p>d) Repair & Maintenance of the Project</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"> • Fill up the presently vacant slots • Recruit additional staff as per need of the infrastructure after obtaining the sanctions from the competent authorities. 			
14-Additional projects /decisions required to optimize the	<p>Shortage & Frequent Transfers of Provincially Appointed Staff</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</p>			

investment being undertaken	immediately for optimizing the investments and capacity building in MC.
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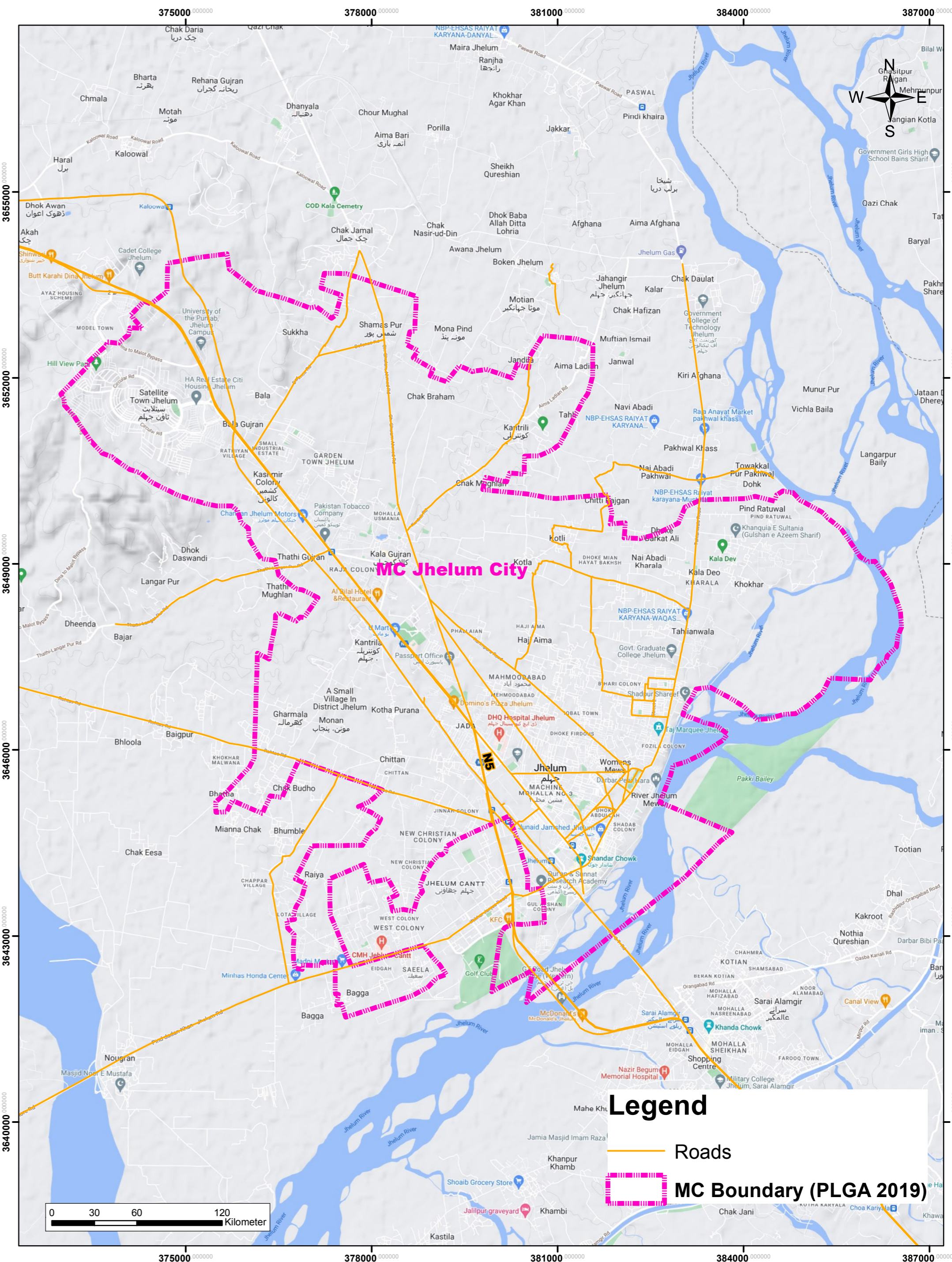
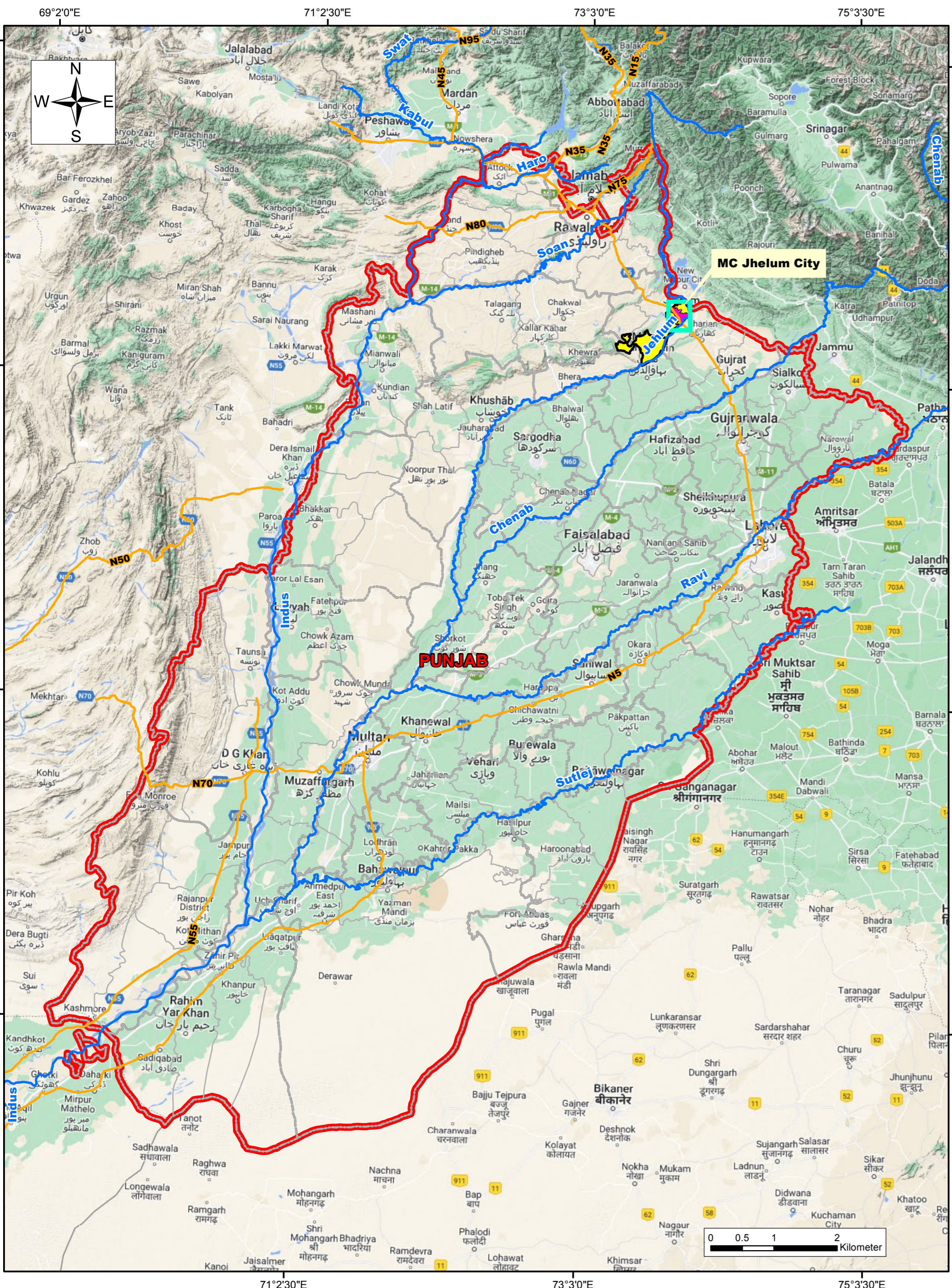
15-Certificate	Certified that the project proposal has been prepared on the basis of guidelines provided by the Planning Commission for the preparation of PC-I for social sectors projects.
----------------	---

Prepared by	M/s MM Pakistan (Pvt) Ltd	Stamp & Signatures	
Checked by	Municipal Officer (Infrastructure) Municipal Committee Jhelum	Stamp & Signatures	
	Chief Officer Municipal Committee Jhelum	Stamp & Signatures	
Forwarded by	Administrator Municipal Committee Jhelum	Stamp & Signatures	

ANNEXURES

ANNEXURE – A

Location Map



PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY

PROJECT:
PUNJAB CITIES PROGRAM (PCP)

Map Code
Map Version
1

DISCLAIMER:
SOURCES OF INFORMATION PRESENTED IN THIS MAP IS BASED ON DATA PROVIDED BY PAKISTAN BUREAU OF STATISTICS 2017.

**STRATEGIC LOCATION MAP
JHELUM**

Date
June 2022

ANNEXURE – B

Cost Estimates

DETAILED DESIGN OF INFRASTRUCTURE SUB - PROJECTS SECTOR
CONSTRUCTION OF ALTAF PARK IN JHELUM CITY
SUB PROJECT - SECTOR PARK
GENERAL ABSTRACT OF COST

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

Sr. No	Item Description	Amount (Rs)
A	CIVIL WORKS	
1	Altaf Park	
	Jogging Track	3,121,671
	Pathways	14,935,060
	Grass, Tree Plantation	42,189,907
	Public toilet (2 Places)	2,984,600
	Cafeteria	5,067,000
	Guard Room	545,700
Sub Total of (A) Cost (Rs) - Civil Works		68,843,939
B	ELECTRICAL WORKS	
3	Altaf Park	9,839,836
Sub Total of (B) Cost (Rs) - Electrical Works		9,839,836
C	WATER SUPPLY AND SEWERAGE WORKS	
5	Altaf Park	16,586,046
Sub Total of (C) Cost (Rs) - Water Supply and Sewerage Works		16,586,046
Total Cost (Rs) A + B + C		95,269,821
	Add 2% Contingency	1,905,396
	Add 5% PST	4,763,491
	Enviornmental Management & Mittigation Cost	753,000.00
	Escalation @ 5%	4,763,491.06
	Total Cost in (Rs)	107,455,200
Total Cost in (Million)		107.46

COST ESTIMATE FOR JOGGING TRACK

CONSTRUCTION OF ALTAF PARK IN JHELUM CITY

Sr. #	Chp 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 JHELUM											
1			<i>Jogging Track (Area calculate by autocad)</i>	1	16284.00			16,284.00	Sft	31.60	514,602.90
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	2714.00			5428.00	Rft	480.3	2607068.40
S.Total										PKR 3,121,671.30	
Cost in Million's										3.12	

ROUGH COST ESTIMATE FOR JOGGING TRACK

CONSTRUCTION OF ALTAF PARK IN JHELMUM CITY

For 100 Sft

BACK UP CALCULATIONS OF QUANTITIES

Sr. #	Chp Ref	Item No.	Description	No	Measurement			Quantity	Unit	Rate	Amount in PKR		
					L	B	D/H						
I													
MRS, 1st BI-ANNUAL - 2023 (01-01-2023 to 30-06-2023) DISTRICT JHELMUM													
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	Earthwork 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	12	36.85	442.2							
								6046.8	50.00	0.05	1000 cft	6046.8	302.34
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 ALTAF PARK IN JHELMUM CITY
MEHMOOD PARK

Rate Analysis for providing and laying Pea Gravel

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

Description	Unit Rate (British System) per 100 Cft		
	Qty	Rate per Unit	Amount (Rs)
Material			
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	-
		Total	6,100.00
Labour			
Coolies un-skilled	3 - Nos.	1050	3,150.00
		Total	3,150.00
Total labour + material			9,250.00
20% Contractor's O.H. & Profit	Rs.	0.20	1,850.00
Total for 100 Cft			11,100.00
Composite rate per 100 Cft			11,100.00
Composite rate per Cft	Rs.	111.00	111.00

COST ESTIMATE FOR PATHWAY
CONSTRUCTION OF ALTAF PARK 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 JHELUM											
1			Pathway (Area calculate by autocad) +Electric Swing Area	1		57755		57755	Sft	204	11,765,080.46
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	3300.00			6600.00	Rft	480.3	3,169,980.00
										S.Total	PKR 14,935,060.46
										Cost in Million's	14.94

ROUGH COST ESTIMATE FOR PATHWAYS
CONSTRUCTION OF ALTAF PARK IN JHELUM 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				
MRS, 1st BI-ANNUAL - 2023 (01-01-2023 to 30-06-2023) DISTRICT JHELUM												
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									PKR 20,370.67
			Cost pr Sft									PKR 203.71

CONSTRUCTION OF ALTAF PARK IN JHELUM CITY

Sr.No	1st.2023		Description of Item	Unit	Rate	Amount	Remarks
	Chp	Item					
District Jhelum City Jhelum Quarry Margalla Hills Lead 135 Km							
Rate Analysis for Bajri							
1	1	1	A) Extra for Carriage 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 135 Km : 135 - 10 = 125 x 52.20	100 Cft	6,525.00	6,525.00	
			Sub - Total (A)			7,585.75	
			B) Extra Carriage for 22 Cft Material				
			= 7,585.75 x 0.22	100 Cft	1,668.87	1,668.87	
			Sub - Total (B)			1,668.87	
			50 Cft				
			Total (A+B)			9,254.62	
			For 100 Cft			9,254.62	
			For Per Cum			3,268.24	
							3) The quantity of crushed stone aggregate for payment of carriage shall betaken as per actual loose volume.

COST ESTIMATE FOR REHABILITATION OF PARK MAIN ENTRANCE GATE & BOUNDARY WALL

CONSTRUCTION OF ALTAF PARK IN JHELUM CITY

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

S.No	MRS.Ref		Description	Quantity	Quantity	Unit	Rate	Amount in PKR
	Ch	Item						
			<u>Supply & Installation of Plants and Trees.</u>					
			<u>Soil Preparaion</u>					
1	3	6	Regular excavation dressed and disposal of unsuitable material upto 3 km. (Rate analysis attached)		255,215.00	Cft	11.77	3,004,761.04
2	Input	7.003	Supply & laying of good earth (sweet soil) at site. (Rate analysis attached)		255,215.00	Cft	14.10	3,599,475.80
			Fertilizer					
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		9.00	Each	2,200.00	19,800.00
9	Non MRS		Phoenix Palm		61.00	Each	2,200.00	134,200.00
27	Non MRS		Alstonia Tree		8.00	Each	2,200.00	17,600.00
16	Non MRS		Gulmahar Tree		8.00	Each	3,500.00	28,000.00
22	Non MRS		Jacaranda tree		8.00	Each	3,000.00	24,000.00
10	Non MRS		Yucca		10.00	Each	2,800.00	28,000.00
11	Non MRS		Rain Tree		34.00	Each	4,500.00	153,000.00
12	Non MRS		Plumbogo		86.00	Each	150.00	12,900.00
13	Non MRS		Bismarkia		10.00	Each	2,000.00	20,000.00
14	Non MRS		Conocapus		53.00	Each	180.00	9,540.00
15	Non MRS		Cone Topiary		5.00	Each	5,500.00	27,500.00
17	Non MRS		Bird of Paradise		20.00	Each	4,000.00	80,000.00
18	Non MRS		Foxtail Palm		19.00	Each	3,800.00	72,200.00
19	Non MRS		Star Jasmine		82.00	Each	250.00	20,500.00
20	Non MRS		Jatropha		85.00	Each	250.00	21,250.00
21	Non MRS		Kaner		72.00	Each	250.00	18,000.00
23	Non MRS		Lagerstroemia		87.00	Each	2,500.00	217,500.00
24	Non MRS		Alternanthera		191.00	Each	60.00	11,460.00
25	Non MRS		Flowers		387.00	Each	20.00	7,740.00

COST ESTIMATE FOR REHABILITATION OF PARK MAIN ENTRANCE GATE & BOUNDARY WALL

CONSTRUCTION OF ALTAF PARK IN JHELUM CITY

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

S.No	MRS.Ref		Description	Quantity	Quantity	Unit	Rate	Amount in PKR
	Ch	Item						
			Prices are Ex-Nursery. Add 20% Overheads and fixing for item 3 to 25					804,838.00
26	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).		255,215.00	Sft	1,848.00	4,716,373.20
27	Non MRS		Concrete Bench - 1		3.00	Each	14,000.00	42,000.00
28	Non MRS		Concrete Bench - 2		13.00	Each	14,000.00	182,000.00
29	Non MRS		Wrought Iron Bench		21.00	Each	35,000.00	735,000.00
30	Non MRS		Gazebo (Quotation attached)		5.00	Each	1,300,000.00	6,500,000.00
31		Analysis attached	Net Cricketing		1.00	Each	4,469,800.00	4,469,800.00
32		Analysis attached	UG Water Storage Tank		1.00	Each	8,348,685.00	8,348,685.00
33	Non MRS		Dismantling existing structures		3,385.04	Sft	250.00	846,260.00
34	MRS		Thick Harrow Sand (MRS 06.006)		350.00	Cft	78.00	27,300.00
35	Non MRS		Tunnels		3.00	No	25,000.00	75,000.00
36	Non MRS		Dust Bin		10.00	Rft	5,000.00	50,000.00
37	Non MRS		Artificial Grass					
MRS	6	5i	PCC 1:4:8, 3" th. @ Rs. 28513.9/%cft		9,000.00	Sft	71.28	641,562.75
MRS	6	5f	PCC 1:2:4, 6" th. @ Rs. 37614.7/%cft		9,000.00	Sft	188.07	1,692,661.50
	Non MRS	iii)	Artificial Grass		9,000.00	Sft	270.00	2,430,000.00
								42,189,907.29
			Sub.Total					42,189,907.29

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.)
	A	SCHEDULE ITEMS					
		EXCAVATION UGWT					
1	3/42 Page - 32	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
							1,929.83 Cft
			1,929.83	1,000.00	Cft	18,457.30	35,619.41
		BRICK OR STONE BALLAST					
2	6/2 Page - 41	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
		PLAIN CEMENT CONCRETE					
3	6/5 Page - 41	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
							19.98 Cft
			19.98	100.00	Cft	37,614.70	7,515.42
		REINFORCED CEMENT CONCRETE					
4	6/6/a/(ii)2 Page - 42	(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	6.00 Cft
			2	0.50	18.00	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),					
		UGWT					
		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 6-9 (c) Page - 44	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	
		CRUSH CARRIAGE							
		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	
		Ratio (1:4:8)		391.51	0.95		371.03	Cft	
		Ratio (1:1-1/2:3)		2,147.06	0.84		1,803.53	Cft	
							2,192.15	Cft	
					1,074.06	1.00	Cft	621.65	667,686.88
7	11/8 (b) Page - 74	FABRICATION OF REINFORCING STEEL							
		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
		WALL PLASTER							
		Cement plaster 1:3 upto 20' (6.00 m) height, 1/2" (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	
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		
8	11/10 (b) Page - 74	SLAB PLASTER							
		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	MILED STEEL RUNGS							
		Providing and fixing 1 1/4"x1 1/4"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.			
					14.00	No.			
					14.00	No.			
			14.00	1.00	No.	610.75	8,550.50		
10	19-40 (iii) Page - 121	CAST IRON MANHOLE COVER							
		Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia							
					2.00	No.			
					2.00	No.			
					2,426.30	No.			
			2.00	1.00	No.	2,426.30	4,852.60		
11	9-46	BITUMEN COATING							
		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.)
		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 2 6.67 6.42 85.64 Sft					
		1,874.93 Sft	1,874.93	1.00	Sft	119.75	224,522.94
		POLYTHEEN SHEET					
12	26/37/ii Page - 176	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
		MOSAIC FLOORING					
13	10/22/a Page - 70	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
		DADO SKIRTING					
14	10/37/a/ii Page - 72	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					
		2 9.00 5.00 90.00 Sft					
		794.28 Sft	794.28	100.00	No.	23,264.50	184,785.27
		WATER STOPPER					
15	6/31 Page - 47	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 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
		BRICK WORK IN FOUNDATION					
16	7/4/i Page - 53	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					
		2 6.67 0.75 2.00 20.01 Cft					
		176.01 Cft	176.01	100.00	Cft	32,454.60	57,123.34
		SAND FILLING					
17	7/30 Page 58	Supplying and filling sand under floor; or plugging in wells.					
		2 29.00 3.00 0.33 57.42 Cft					
		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
		TUFF PAVERS					
18	10/41/b Page 72	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					
		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	
		FABRICATION OF HEAVY STEEL WORK						
		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 3.44						
		@ 490.00 / 2.20 765.67 Kg						
		Opening 2 Nos						
		1.5" x 1.5" x .375" Angle 2 2 4.00 8.00						
		2 2 3.00 6.00						
Total Rft 14.00								
14 0.02 0.22								
@ 490.00 / 2.20 48.62 Kg								
814.29 Kg	814.29	100.00	Kgs.	34,808.35	283,440.26			
20	23 / 31	SLUICE (GATE) VALVE						
		Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge.						
21	23 / 54b-9	(b) Flange Ended Ductile Iron Valve						
		ii) 4 Inch dia	2.00	1.00	Each	19,931.30	39,862.60	
22	23-62	NON RETURN / CHECK VALVE						
		Providing and fixing heavy duty Check valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge.						
23	23-21	(b) Flange Ended Ductile Iron Valve						
		i) 4 Inch dia	2.00	1.00	Each	33,697.30	67,394.60	
22	23-62	CHAIN PULLY						
		Providing and fixing Chain Pulley Block of 5 ton capacity with 5 meter length of chain, as per required specifications complete in all respect and as approved by the Engineer Incharge	1.00	1.00	Each	32,586.00	32,586.00	
23	23-21	CAST IRON PIPE						
		Providing, laying, cutting, jointing, testing and disinfecting cast iron ditto pipe line (BS-2035) in trenches, with flanged and flanged joints, complete in all respects:						
		i) 4 Inch dia pipe	17.00	1.00	Rft	1,611.90	27,402.30	
Total Schedule Items (Rs.) = "A"							5,945,589.00	
	B	NON-SCHEDULE ITEMS						
		SUBMERSIBLE PUMP						
24	N-S	Supply, testing, commissioning and Installation of submersible pump 0.25 Cusec pump, Head 150 feet, V.F.D based imported stainless steel (SS-304) Submersible Pump one running and one standby with following technical data and accessories, MS Nipple, bracket for pump installation, supporting Brackets for Pipe, Pipe Increase / Expander, Tee Bend Elbow, riser Pipes, etc. completion in all respects as per drawings and specifications.	2.00	1.00	Each	1,201,548.00	2,403,096.00	
Total Non-Schedule Items (Rs.) = "B"							2,403,096.00	
Total Amount (Rs.) = "A + B"							8,348,685.00	

CONSTRUCTION OF ALTAF PARK IN JHELMUM CITY
Estimate for Male and Female Toilet

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.a.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. 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 x 1.25 x 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 x 1.25 x 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 1 x 2.00 x 2.08 x 1.50 x 0.50 = 3.12 Cft 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	443.87	Cft	100.00	32,454.60	144,054.63
5	6	36-a -ii	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					
				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	69.62	Cft	100.00	10,203.55	7,103.92
6	7	5	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)																	

			Out side below exhaust fans	4	1.00	2.00		4.00	32.00	Sft					
			Total outside						45.50	Sft					
							Total =	638.50	Sft		638.50	Sft	1.00	360.40	230,115.40
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 mortar 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					
			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 mortar 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					
					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					
					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					
							Total =	34.15	Rft		34.15	Rft	1.00	27.90	952.79
			SURFACE RENDERING												
17	11	8.b	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		
				1	x	2.00		0.75	x	11.00	=	16.50	Sft		
				4	x	2.00		0.38		11.00	=	33.00	Sft		
			Female 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		
			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
18	11	10b	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
19	11	32	Providing grooved cement sand plaster 1:3 over existing plastered and roughened surface upto 20' (6.00 m) height.												
			ii) 1/2" (13 mm) thick												
				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
20	11	23	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						
			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											Net Total	=	264.95	Sft	264.95	Sft	100.00	1,446.35	3,832.10
21	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:																			
			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 1 1/4" 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							
														121.00	Sft	121.00	Sft	1.00	402.05	48,648.05		
23	12	52	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																			
			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	795.70	96,279.70		
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"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																			
						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	ROOF 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
														Total		PKR 1,492,250
														Say		PKR 1,492,300

CONSTRUCTION OF ALTAf PARK IN JHElUM CITY
Estimate for Cafeteria

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

Sr No	MRS		DESCRIPTION	Qty	Unit	Rate	Amount	
	1st.2023	Item					Rs.	
1	3	21.a.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. 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	13,046.90	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	37,614.70	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 1 x 1.00 x 7.83 x 1.50 x 0.33 3.88 Cft 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							
											Total	=	289.76	Cft	289.76	Cft	100	28,513.19	82,621.00
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	103.42	x	0.75	x	6.00	=	465.39	Cft				
			Service counter	1	x	1.00	x	10.75	x	0.75	x	6.00	=	48.38	Cft				
			Entrance	1	x	2.00	x	18.01	x	0.75	x	6.00	=	162.09	Cft				
			D-2	1	x	1.00	x	3.50	x	0.75	x	6.00	=	15.75	Cft				
			D-3	1	x	3.00	x	3.00	x	0.75	x	6.00	=	40.50	Cft				
			D-4	1	x	2.00	x	2.25	x	0.75	x	6.00	=	20.25	Cft				
			D-2	1	x	1.00	x	3.50	x	0.75	x	6.00	=	15.75	Cft				
			13.5" walls	1	x	1.00	x	8.00	x	1.13	x	6.00	=	54.00	Cft				
			4-1/2" walls	1	x	1.00	x	6.00	x	0.75	x	5.00	=	22.50	Cft				
				1	x	1.00	x	7.83	x	0.75	x	5.00	=	29.36	Cft				
			Toe wall	1	x	1.00	x	7.17		0.75		2.00	=						
			Toe wall	1	x	1.00	x	6.00		0.75		2.00	=	9.00	Cft				
											Net Total	=	882.97	Cft	882.97	Cft	100	32,454.60	286,563.57
5	6	36-a -ii	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	103.42	x	0.75		=	77.57	Sft					
			Service counter	1	x	1.00	x	10.75	x	0.75		=	8.06	Sft					
			Entrance	1	x	2.00	x	18.01	x	0.75		=	27.02	Sft					
			D-2	1	x	1.00	x	3.50	x	0.75		=	2.63	Sft					
			D-3	1	x	3.00	x	3.00	x	0.75		=	6.75	Sft					
			D-4	1	x	2.00	x	2.25	x	0.75		=	3.38	Sft					
			13.5" walls	1	x	1.00	x	8.00	x	1.13		=	9.00	Sft					
			4-1/2" walls	1	x	1.00	x	6.00	x	0.75		=	4.50	Sft					
				1	x	1.00	x	7.83	x	0.75		=	5.87	Sft					
			Toe wall	1	x	1.00	x	7.17		0.75		=	5.38	Sft					
			Toe wall	1	x	1.00	x	6.00		0.75		=	4.50	Sft					
											Net Total	=	154.64	Sft	154.64	Cft	100	10,203.55	15,779.02
6	7	5	Pacca brick work in ground floor:- Ratio 1:4)																
			9" walls	1	x	1.00	x	103.42	x	0.75	x	10.00	=	775.65	Cft				
			Service counter	1	x	1.00	x	10.75	x	0.75	x	10.00	=	80.63	Cft				
			Entrance	1	x	2.00	x	18.01	x	0.75	x	10.00	=	270.15	Cft				
			D-2	1	x	1.00	x	3.50	x	0.75	x	10.00	=	26.25	Cft				
			D-3	1	x	3.00	x	3.00	x	0.75	x	10.00	=	67.50	Cft				
			D-4	1	x	2.00	x	2.25	x	0.75	x	10.00	=	33.75	Cft				
			13.5" walls	1	x	1.00	x	8.00	x	1.13	x	10.00	=	90.00	Cft				
			4-1/2" walls	1	x	1.00	x	6.00	x	0.38		8.00	=	18.00	Cft				
				1	x	1.00	x	7.83	x	0.38		8.00	=	23.49	Cft				
			Walls above 10'									=	-	Cft					
			9" walls	1	x	1.00	x	6.75	x	0.75		2.50	=	12.66	Cft				
				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

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)

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

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										= - 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
	2		1.00		3.00		0.33		3.00	= 5.94 Cft
	2		1.00		6.75		0.33		3.00	= 13.37 Cft
	2		1.00		3.50		0.33		3.00	= 6.93 Cft
	2		1.00		4.50		0.33		3.00	= 8.91 Cft
Along stair	1		1.00		7.83		0.33		3.00	= 7.75 Cft
	1		1.00		6.50		0.33		3.00	= 6.44 Cft
	1		1.00		3.00		0.33		3.00	= 2.97 Cft
	1		1.00		3.00		0.33		3.00	= 2.97 Cft
	1		1.00		4.00		0.33		3.00	= 3.96 Cft

			Roof toilet area	1	1.00	74.50	area	0.50	=	37.25	Cft					
			Roof Kitchen area	1	1.00	104.58	area	0.50	=	52.29	Cft					
			Roof Storage area	1	1.00	149.96	area	0.50	=	74.98	Cft					
			Roof walls	1	1.00	50.50	0.75	4.21	=	159.45	Cft					
			Less Vents	-1	8.00	5.00	0.75	1.50	=	(45.00)	Cft					
			Lower Roof			830.73	area				Cft					
			Less inner area			(212.08)	area				Cft					
			Add slope factor	1	1.05	618.65	area	0.50	=	324.79	Cft					
			Bottom of lower roof	1	1.00	830.73	area	0.50	=	415.36	Cft					
			Less opening	-1	1.00	588.00	area	0.50	=	(294.00)	Cft					
			Upper Roof	1	1.02	331.71	area	0.33	=	111.65	Cft					
			Bottom of upper roof	1	1.00	331.71	area	0.33	=	109.46	Cft					
			Less opening	-1	x 1.00	212.08	area	0.33	=	(69.99)	Cft					
			Add Lintles							-	Cft					
			Service counter	1	1.00	9.17	0.75	0.75	=	6.88	Cft					
			Entrance	1	2.00	20.01	0.75	0.75	=	30.02	Cft					
			D-2	1	1.00	5.00	0.75	0.75	=	3.75	Cft					
			D-3	1	3.00	4.50	0.75	0.75	=	10.13	Cft					
			D-4	1	2.00	3.75	0.75	0.75	=	5.63	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					
										Total =	1,029.12	Cft	1	566.35	582,842.76	
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	=	583.17	x	6.75	/	2.20	=	1,786.02	Kg			
				7.00	=	1,029.12	x	6.75	/	2.20	=	3,151.80	Kg			
										Total	=	4,937.82	Kg	100	31,945.90	1,577,431.97
10	7	30	FLOOR													
			Supplying and filling sand under floor; or plugging in wells.													
			Court yard	1.00	x	158.13	x	area	x	2.25	=	355.80	Cft			
			Shop	1.00	x	124.46	x	area	x	2.25	=	280.04	Cft			
			Kitchen	1.00	x	76.08	x	area	x	2.25	=	171.18	Cft			
			Storage	1.00	x	56.37	x	area	x	2.25	=	126.83	Cft			
			Toilet	1.00	x	22.42	x	area	x	2.25	=	50.45	Cft			
			Toilet	1.00	x	31.85	x	area	x	2.25	=	71.66	Cft			
										Total	=	807.01	Cft	100	2,862.00	23,096.68
11		MRS INPUT	Good earth/soil for planters													
			In planters	1.00		91.08	area	3.00	=	273.24	Cft					
				1.00		31.65	area	3.00	=	94.95	Cft					
				1.00		31.65	area	3.00	=	94.95	Cft					
										Total	=	463.14	Cft	100	1,016.40	4,707.35
			Analysis	Cost	100.00	Cft	@ Rs. %cft =	770.00	=	770.00						
			Labour					0.10		77.00						
			Contractor's					0.20		169.40						
			O H Profit							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	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
			SURFACE RENDERING											
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											
			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
21	11	32	Providing grooved cement sand plaster 1:3 over existing plastered and roughened surface upto 20' (6.00 m) height.											
			ii) 1/2" (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				
			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				

22	11	23	Distemping:- a) new surface:- Same as interior plaster				Net Total = 652.90 Sft	652.90	Sft	100	4,004.65	26,146.36	
			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	34,554.39
23	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: 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	1,060.91	Sft	100	2,101.80	22,298.16
			3rd coat					1,060.91 Sft	1,060.91	Sft	100	2,101.80	22,298.16
24	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										
			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					
								129.50 Sft	129.50	Sft	1	402.05	52,065.48
25	12	52	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.										
			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					
								129.50 Sft	129.50	Sft	1	795.70	103,043.15
26	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										
			W-1	2.00		7.20	7.00 =	100.80 Sft					
			W-3	1.00		4.00	3.50 =	14.00 Sft					
			W-4	2.00		2.00	2.00 =	8.00 Sft					
				8.00		5.13	1.50 =	61.50 Sft					
			Total					184.30 Sft	184.30	Sft	1.00	1,336.55	246,326.17

27	9	50	ROOF 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.												
			Upper roof												
			1	1.00	331.17	1.02	Slope	=	337.79	Sft					
			Lower Roof						-						
			1	1.00	830.73	1.05	Slope	=	872.26	Sft					
			Less structure	-1	1.00	588.01			(588.01)						
							Total	=	622.05	Sft	622.05	Sft	1	133.15	82,825.66
28	12	16	Providing and fixing moulded cornice as per drawing												
			Cornice at upper roof	1	8.00	8.28			66.25	Rft					
			Cornice at lower roof	1	8.00	13.11			104.92	Rft					
										Rft					
									171.17	Rft	171.17	Rft	1	500.00	85,583.33
29	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	=	289.76	x	0.95	=	274.61	Cft			
			Pcc 1.2.4 :as per item No.		2.00	=	362.55	x	0.88	=	319.05	Cft			
			R.c.c 1.2.4 :as per item No.		7.00	=	583.17	x	0.88	=	513.19	Cft			
			R.c.c 1.2.4 :as per item No.		8.00	=	1,029.12	x	0.88	=	905.63	Cft			
							Total	=	2,012.47	Cft	2,012.47	Cft	100	7,585.75	152,660.99
													Total	PKR 5,067,039	
													Say	PKR 5,067,000	

CONSTRUCTION OF ALTAF PARK IN JHELUM CITY
Estimate for Ladies Lounge

MRS, 1st BI-ANNUAL - 2023 (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.a.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.					
			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					
				1	x	1.00	x	4.00	x	1.50	x	0.50	=	3.00	Cft					
				1	x	1.00	x	24.67	x	1.50	x	0.50	=	18.50	Cft					
				1	x	1.00	x	12.50	x	1.50	x	0.50	=	9.38	Cft					
				1	x	1.00	x	10.00	x	1.50	x	0.50	=	7.50	Cft					
				1	x	1.00	x	8.00	x	1.50	x	0.50	=	6.00	Cft					
													=	-	Cft					
			4-1/2" walls	1	x	1.00	x	5.00	x	0.75	x	2.00	=	7.50	Cft					
				1	x	2.00	x	5.75	x	0.75	x	2.00	=	17.25	Cft					
				1	x	2.00	x	5.00	x	0.75	x	2.00	=	15.00	Cft					
				1	x	2.00	x	1.58	x	0.75	x	2.00	=	4.74	Cft					
				1	x	1.00	x	16.17	x	0.75	x	2.00	=	24.26	Cft					
				0.5	x	3.14	x	11.69	x	0.75	x	2.00	=	27.54	Cft					
				1	x	2.00	x	8.00	x	0.75	x	2.00	=	24.00	Cft					
			2nd Step																	
			9" walls	1	x	1.00	x	46.33	x	1.13	x	0.50	=	26.06	Cft					
				1	x	2.00	x	10.13	x	1.13	x	0.50	=	11.39	Cft					
				1	x	1.00	x	5.00	x	1.13	x	0.50	=	2.81	Cft					
				1	x	1.00	x	4.00	x	1.13	x	0.50	=	2.25	Cft					
				1	x	1.00	x	24.67	x	1.13	x	0.50	=	13.88	Cft					
				1	x	1.00	x	12.50	x	1.13	x	0.50	=	7.03	Cft					
				1	x	1.00	x	10.00	x	1.13	x	0.50	=	5.63	Cft					
				1	x	1.00	x	8.00	x	1.13	x	0.50	=	4.50	Cft					
			3rd Step																	
			9" walls	1	x	1.00	x	46.33	x	0.75	x	2.50	=	86.87	Cft					
				1	x	2.00	x	10.13	x	0.75	x	2.50	=	37.97	Cft					
				1	x	1.00	x	5.00	x	0.75	x	2.50	=	9.38	Cft					
				1	x	1.00	x	4.00	x	0.75	x	2.50	=	7.50	Cft					
				1	x	1.00	x	24.67	x	0.75	x	2.50	=	46.26	Cft					
				1	x	1.00	x	12.50	x	0.75	x	2.50	=	23.44	Cft					
				1	x	1.00	x	10.00	x	0.75	x	2.50	=	18.75	Cft					
				1	x	1.00	x	8.00	x	0.75	x	3.00	=	18.00	Cft					
			Net Total	=	540.05	Cft										540.05	Cft	100	32,454.60	175,272.56
		5	6	36-a -ii	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	46.33	x	0.75	=	34.75	Sft						
					1	x	2.00	x	10.13	x	0.75	=	15.19	Sft						
					1	x	1.00	x	5.00	x	0.75	=	3.75	Sft						
					1	x	1.00	x	4.00	x	0.75	=	3.00	Sft						
					1	x	1.00	x	24.67	x	0.75	=	18.50	Sft						
					1	x	1.00	x	12.50	x	0.75	=	9.38	Sft						
					1	x	1.00	x	10.00	x	0.75	=	7.50	Sft						
					1	x	1.00	x	8.00	x	0.75	=	6.00	Sft						
			4-1/2" walls	1	x	1.00	x	5.00	x	0.75	=	3.75	Sft							
				1	x	2.00	x	5.75	x	0.75	=	8.63	Sft							
				1	x	2.00	x	5.00	x	0.75	=	7.50	Sft							
				1	x	2.00	x	1.58	x	0.75	=	2.37	Sft							
				1	x	1.00	x	16.17	x	0.75	=	12.13	Sft							
				0.5	x	3.14	x	11.69	x	0.75	=	13.77	Sft							
				1	x	2.00	x	8.00	x	0.75	=	12.00	Sft							
			Net Total	=	158.21	Sft										158.21	Cft	100	10,203.55	16,142.73
		6	7	5	Pacca brick work in ground floor:- Ratio 1:4)															
				9" walls	1	x	1.00	x	46.33	x	0.75	x	9.00	=	312.73	Cft				
					1	x	2.00	x	10.13	x	0.75	x	9.00	=	136.69	Cft				
					1	x	1.00	x	5.00	x	0.75	x	9.00	=	33.75	Cft				
					1	x	1.00	x	4.00	x	0.75	x	9.00	=	27.00	Cft				

			1	x	1.00	x	24.67	x	0.75	x	9.00	=	166.52	Cft							
			1	x	1.00	x	12.50	x	0.75	x	9.00	=	84.38	Cft							
			1	x	1.00	x	10.00	x	0.75	x	9.00	=	67.50	Cft							
			1	x	1.00	x	8.00	x	0.75	x	9.00	=	54.00	Cft							
			4-1/2" walls																		
			1		1.00		5.00		0.38		1.00	=	1.88	Cft							
			1		2.00		5.75		0.38		1.00	=	4.31	Cft							
			1		2.00		5.00		0.38		1.00	=	3.75	Cft							
			1		2.00		1.58		0.38		1.00	=	1.19	Cft							
			1		1.00		16.17		0.38		1.00	=	6.06	Cft							
			0.5		3.14		11.69		0.38		1.00	=	6.89	Cft							
			1		2.00		8.00		0.38		1.00	=	6.00	Cft							
												=	-	Cft							
			Parapet Walls																		
			1		1.00		52.29		0.38		2.75	=	53.92	Cft							
			1		1.00		46.07		0.38		2.75	=	47.50	Cft							
			0.5		3.14		13.69		0.38		2.75	=	22.18	Cft							
			1		1.00		11.75		0.38		2.75	=	12.12	Cft							
			Deductions																		
			D-1		-1		2.00		4.00		0.75		7.00	=	(42.00)	Cft					
			D-2		-1		1.00		3.50		0.75		7.00	=	(18.38)	Cft					
			D-3		-1		2.00		2.50		0.75		7.00	=	(26.25)	Cft					
			Vent		-1		1.00		2.00		0.75		2.00	=	(3.00)	Cft					
			Lintles																		
			D-1		-1		2.00		5.50		0.75		0.75	=	(6.19)	Cft					
			D-2		-1		1.00		5.00		0.75		0.75	=	(2.81)	Cft					
			D-3		-1		2.00		4.00		0.75		0.75	=	(4.50)	Cft					
			Vent		-1		1.00		3.50		0.75		0.75	=	(1.97)	Cft					
													Net Total	=	943.26	Cft	943.26	Cft	100	34,857.00	328,793.20
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)																		
			Columns Base		1		6.00		4.00		4.00		1.00	=	96.00	Cft					
													Total	=	96.00	Cft	96.00	Cft	1	456.95	43,867.20
8			(a) (i) Reinforced cement concrete in roof slab, beams, columns lintles, 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)																		
			Columns		6		0.79		1.00		1.00		11.00	=	51.84	Cft					
			Slab		1	x	1.00	x	1,098.62	x	area	x	0.50	=	549.31	Cft					
			Lintles																		
			D-1		1		2.00		5.50		0.75		0.75	=	6.19	Cft					
			D-2		1		1.00		5.00		0.75		0.75	=	2.81	Cft					
			D-3		1		2.00		4.00		0.75		0.75	=	4.50	Cft					
			Vent		1		1.00		3.50		0.75		0.75	=	1.97	Cft					
													Total	=	616.62	Cft	616.62	Cft	1	566.35	349,219.99
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	=	96.00	x	6.75	/	2.20	=	294.01	Kg							
					8.00	=	616.62	x	6.75	/	2.20	=	1,888.45	Kg							
													Total	=	2,182.46	Kg	2,182.46	Kg.	100	31,945.90	697,208.00

Item No	Quantity	Description	Unit	Rate	Amount	Subtotal	Total	Unit	Rate	Amount			
10	7	30	FLOOR										
			Supplying and filling sand under floor; or plugging in wells.										
			1	1.00	5.00	6.00	2.50	75.00	Cft				
			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	1,057.50	Cft	100	2,862.00	30,265.65
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	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 mortar 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	
											-	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 mortar bed , complete in all respect as approved and directed by the Engineer Incharge										

			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:								
			a) new surface:								
			Out side				1,451.35 Sft				
			Ceiling soffit				263.22 Sft				
			Less tiles out side				Sft				
							Net Total = 1,714.57 Sft	1,714.57 Sft	100	3,651.00	62,598.93
			2nd coat				1,714.57 Sft	1,714.57 Sft	100	2,101.80	36,036.82
			2nd coat				1,714.57 Sft	1,714.57 Sft	100	2,101.80	36,036.82
21	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 1 1/4" 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	2	1.00	4.00	7.00	56.00 Sft			
			D-2	1	1.00	3.50	7.00	24.50 Sft			
			D-3	1	1.00	2.50	2.00	5.00 Sft			
							85.50 Sft	85.50 Sft	1	402.05	34,375.28
22	12	52	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								
			D-1	2	1.00	4.00	7.00	56.00 Sft			
			D-2	1	1.00	3.50	7.00	24.50 Sft			
			D-3	1	1.00	2.50	2.00	5.00 Sft			
							85.50 Sft	85.50 Sft	1	795.70	68,032.35
23	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"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								
			W-1		2.00	8.00	4.00 =	64.00 Sft			
			W-2		1.00	4.00	4.00 =	16.00 Sft			
			W-3		1.00	2.00	2.00 =	4.00 Sft			
			W-4		2.00	2.00	2.00 =	8.00 Sft			
					8.00	5.13	1.50 =	61.50 Sft			
							Total = 153.50 Sft	153.50 Sft	1.00	1,336.55	205,160.43
			ROOF								
24	9	50	First class tile roofing, consisting of 4" (100 mm) earth and 1" (25 mm) mud plaster with Gobri leeping over 1/2" mm) thick cement plaster 1:6 with 34 lbs. per %Sft or 1.72 Kg/sq.m hot bitumen coating sand blinded, provided over 2 layers of tiles 12"x6"x1 1/4" (300x150x30 mm) laid in 1:6 cement mortar with 1/2" (13 mm) thick sand wiched layer of 1:6 cement mortar, including 1:2 cement pointing underside of tiles, complete, including curing, etc.								
					1.00	1,098.63 area	=	1,098.63 Sft			
					0.25	3.14	13.69	13.69	0.50 =	73.60 Sft	
			Less P. Wall		-1	138.00	0.33	=	(45.54) Sft		
					-0.5	3.15	13.69	0.33	=	(7.11) Sft	
			Add back					=	- Sft		
								=	- Sft		
							Total = 1,119.58 Sft	1,119.58 Sft	100	25,797.80	288,827.51
	9	15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)								
					1		=	1.00 No.			
							Total = 1.00 No.	1.00 Sft	1	889.80	889.80
25	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	= 259.58	x 0.95 =	246.00 Cft			
			Pcc 1.2.4 :as per item No.		2.00	= 9.00	x 0.88 =	7.92 Cft			

		R.c.c 1.2.4 :as per item No.	7.00 = 616.62 x 0.88 =	542.62 Cft					
			Total =	796.55 Cft	796.55 Cft	100	7,585.75	60,423.93	
						Total		PKR 3,041,167	
						Say		PKR 3,041,200	

CONSTRUCTION OF ALTAF PARK IN JHELM CITY
Estimate for Guard Room

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 2.00 x 8.50 x 2.50 x 3.50 = 148.75 Cft 1 x 2.00 x 5.00 x 2.50 x 3.50 = 87.50 Cft 1 x 1.00 x 2.25 x 0.75 x 3.50 = 5.91 Cft Total = 242.16 Cft	242.16	Cft	1000	13,046.90	3,159.00
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 - Cft - Cft Total = - Cft	-	Cft	100	37,614.70	-
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 2.00 x 8.50 x 2.50 x 0.50 = 21.25 Cft 1 x 2.00 x 5.00 x 2.50 x 0.50 = 12.50 Cft 1 x 1.00 x 2.25 x 0.75 x 0.50 = 0.84 Cft Total = 33.75 Cft	33.75	Cft	100	28,513.19	9,623.00
4	7	4	Pacca brick work in foundation and plinth in:-i) Cement, sand mortar:- Ratio 1:4) 1st step 9" walls 1 x 2.00 x 8.50 x 1.50 x 0.50 = 12.75 Cft 1 x 2.00 x 5.00 x 1.50 x 0.50 = 7.50 Cft 1 x 1.00 x 2.25 x 0.75 x 0.50 = 0.84 Cft 2nd Step 9" walls 1 x 2.00 x 8.50 x 1.13 x 0.50 = 9.56 Cft 1 x 2.00 x 5.00 x 1.13 x 0.50 = 5.63 Cft 1 x 1.00 x 2.25 x 0.75 x 0.50 = 0.84 Cft 3rd Step 9" walls 1 x 2.00 x 8.50 x 0.75 x 2.50 = 31.88 Cft 1 x 2.00 x 5.00 x 0.75 x 2.50 = 18.75 Cft 1 x 1.00 x 2.25 x 0.75 x 0.50 = 0.84 Cft Net Total = 88.59 Cft	88.59	Cft	100	32,454.60	28,752.75
5	6	36-a-ii	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 2.00 x 8.50 x 0.75 = 12.75 Sft 1 x 2.00 x 5.00 x 0.75 = 7.50 Sft 1 x 1.00 x 2.25 x 0.75 = 1.69 Sft Net Total = 21.94 Sft	21.94	Cft	100	10,203.55	2,238.40
6	7	5	Pacca brick work in ground floor:- Ratio 1:4) 9" walls 1 x 2.00 x 8.50 x 0.75 x 7.25 = 92.44 Cft 1 x 2.00 x 5.00 x 0.75 x 7.25 = 54.38 Cft 1 x 1.00 x 2.25 x 0.75 x 7.25 = 12.23 Cft Parapet Walls 1 2.00 8.50 0.75 0.38 = 4.78 Cft 1 2.00 5.00 0.75 0.38 = 2.81 Cft 1 2.00 0.75 0.75 0.38 = 0.42 Cft 1 2.00 8.50 1.13 0.13 = 2.39 Cft 1 2.00 5.00 1.13 0.13 = 1.41 Cft					

			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		
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)												
			Columns Base	1	1.00	2.00	2.00	0.75	=	3.00	Cft				
					Total	=	3.00	Cft	3.00	Cft	1	456.95	1,370.85		
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	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		
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	=	3.00	x	6.75	/	2.20	=	9.19	Kg		
				8.00	=	39.44	x	6.75	/	2.20	=	120.78	Kg		
					Total	=	129.97	Kg	129.97	Kg	100	31,945.90	41,519.98		
			FLOOR												
10	7	30	Supplying and filling sand under floor; or plugging in wells.												
			1	1.00	7.00	5.00	0.50	17.50	Cft						
					Total	=	17.50	Cft	17.50	Cft	100	2,862.00	500.85		
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						
					Total	=	11.55	Cft	11.55	Cft	100	10,256.50	1,184.63		
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 ¾" 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							
					Total	=	35.00	Sft	35.00	Sft	1	360.40	12,614.00		

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 Skirting 2 1.00 x 7.00 + 5.00 x 0.50 12.00 Sft D-1 -1 1.00 2.25 0.50 (1.13) Sft Total = 10.88 Sft	10.88	Sft	1	360.40	3,919.35
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 mortar bed , complete in all respect as approved and directed by the Engineer Incharge ii) 3/4" thick (12"x24"/12"x36") Door cill 1.00 2.25 1.00 2.25 Sft - Sft Total = 2.25 Sft	2.25	Sft	1	1,508.45	3,394.01
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 mortar bed , complete in all respect as approved and directed by the Engineer Incharge (ii) 1/2" thick Steps - Sft Total = - Sft	-	Sft	1	1,193.45	-
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 Door cill 1.00 2.25 2.25 Rft Total = 2.25 Rft	2.25	Rft	1	27.90	62.78
17	11	8.b	SURFACE RENDERING Cement Plaster 1;3 upto 20' height 1/2" Thick (in side) Inside 1 2.00 7.00 + 5.00 7.33 = 175.92 Sft Less - Sft D-1 -1 1.00 2.25 7.00 (15.75) Sft Parapet - Sft Parapet Walls 1 2.00 7.00 + 5.00 0.75 = 18.00 Sft Net Total = 178.17 Sft	178.17	Sft	100	3,635.05	6,476.57
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 7.00 5.00 35.00 Sft Net Total = 35.00 Sft	35.00	Sft	100	3,960.25	1,386.09
19	7	32i	First class brick tiles clad by laying tiles in stretcher course in cement sand mortar reinforced with 18 SWG hoop iron strips bonding placed at 2.0' (600 mm) apart horizontally, and at 1.0' (300 mm) interval vertically. i) 1:3 1 1.00 8.50 + 6.50 0.25 3.75 Sft 1 1.00 8.50 + 6.50 0.13 1.88 Sft 1 1.00 8.50 + 6.50 8.25 123.75 Sft Net Total = 125.63 Sft	125.63	Sft	100	18,167.65	22,823.11
20	11	23	Distempering:- a) new surface:- Inside Same as inside plaster = 160.17 Sft Ceiling = 35.00 Sft 3 Coats Net Total = 195.17 Sft	195.17	Sft	100	1,446.35	2,822.84
21	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: a) new surface: Out side 18.00 Sft - Sft Net Total = 18.00 Sft 2nd coat 18.00 Sft	18.00	Sft	100	3,651.00	657.18
				18.00	Sft	100	2,101.80	378.32

22	12	16	2nd coat 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 1 1/4" 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	2.25	7.00	15.75 Sft	18.00 Sft	100	2,101.80	378.32	
23	12	52	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 lacquer polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the D-1	1	1.00	2.25	7.00	15.75 Sft	15.75 Sft	1	402.05	6,332.29	
24	25	52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using deluxe 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 W-1	1.00	3.00	3.00	=	9.00 Sft	15.75 Sft	1	795.70	12,532.28	
			Total				=	9.00 Sft	9.00 Sft	1.00	1,336.55	12,028.95	
25	9	50	ROOF First class tile roofing, consisting of 4" (100 mm) earth and 1" (25 mm) mud plaster with Gobri leaping over 1/2" thick cement plaster 1:6 with 34 lbs. per %Sft or 1.72 Kg/sq.m hot bitumen coating sand blinded, provided over 2 layers of tiles 12"x6"x1 1/4" (300x150x30 mm) laid in 1:6 cement mortar with 1/2" (13 mm) thick sand wiche layer of 1:6 cement mortar, including 1:2 cement pointing underside of tiles, complete, including curing, etc.	1.00	1,098.63 area		=	1,098.63 Sft					
			0.25	3.14	13.69	13.69	0.50	=	73.60 Sft				
			Less P. Wall	-1	138.00	0.33		=	(45.54) Sft				
				-0.5	3.15	13.69	0.33	=	(7.11) Sft				
			Add back					=	- Sft				
								=	- Sft				
			Total				=	1,119.58 Sft	1,119.58 Sft	100	25,797.80	288,827.51	
	9	15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	1			=	1.00 No.					
			Total				=	1.00 No.	1.00 Sft	1	889.80	889.80	
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 Pcc 1.4.8 :as per item No. Pcc 1.2.4 :as per item No. R.c.c 1.2.4 :as per item No.	135.00	from Margalla Hills quarry								
				3.00	=	33.75	x	0.95	=	31.98 Cft			
				2.00	=	-	x	0.88	=	- Cft			
				7.00	=	39.44	x	0.88	=	34.71 Cft			
			Total		=	66.69			=	66.69 Cft	100	7,585.75	5,058.91
										Total		PKR 545,677	
										Say		PKR 545,700	

CONSTRUCTION OF ALTAF PARK IN JHELM CITY
Estimate for Net Cricketing

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	18	27	Providing, fabrication and fixing Vertical Post comprising of medium quality G.I Pipe of specified diameter, including the cost of clamping arrangements, top cover, hold fasts, PCC 1:2:4 footing of specified depth and excavation etc complete in all respect, as approved and directed by the engineer incharge					
			(c) 4 inch diameter (footing 1.5'x1.5'x6')					
			Quantity Vertical 2.00 x 16.00 x 22.00 ft 704.00 Rft					
			Horizontal 1.00 x 2.00 x 110.00 ft 220.00 Rft					
			Horizontal 1.00 x 2.00 x 55.00 ft 110.00 Rft					
			Gate 1.00 x 1.00 x 10.00 ft 10.00 Rft					
			1.00 x 1.00 x 3.00 ft 3.00 Rft					
			1,047.00 Rft	1,047.00	Rft	1	2,043.80	2,139,858.60
			Toe Wall					
2	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.					
			9" walls 1 x 2.00 x 110.00 x 2.50 x 2.25 = 1,237.50 Cft					
			1 x 2.00 x 55.00 x 2.50 x 2.25 = 618.75 Cft					
			Total = 1,856.25 Cft	1,856.25	Cft	1000	13,046.90	24,218.00
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)					
			9" walls 1 x 2.00 x 110.00 x 2.50 x 0.25 = 137.50 Cft					
			1 x 2.00 x 55.00 x 2.50 x 0.25 = 68.75 Cft					
			Total = 206.25 Cft	206.25	Cft	100	28,513.19	58,808.00
4	7	4	Pacca brick work in foundation and plinth in:-i) Cement, sand mortar:-					
			Ratio 1:4)					
			1st step					
			Toe Wall 1 2.00 110.00 x 0.75 x 3.00 = 495.00 Cft					
			1 2.00 55.00 x 0.75 x 3.00 = 247.50 Cft					
			Net Total = 742.50 Cft	742.50	Cft	100	32,454.60	240,975.41
5	7	30	FLOOR Supplying and filling sand under floor; or plugging in wells.					
			1 1.00 110.00 55.00 0.50 3,025.00 Cft					
			Total = 3,025.00 Cft	3,025.00	Cft	100	2,862.00	86,575.50
6	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 1.00 110.00 55.00 0.33 1,996.50 Cft					
			Total = 1,996.50 Cft	1,996.50	Cft	100	10,256.50	204,771.02

7	6	5f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2:4																	
				1	1.00	110.00	55.00	0.33	1,996.50	Cft										
				1					-	Cft										
								Total =	1,996.50	Cft	1,996.50	Cft	100	37,614.70	750,977.49					
8	N/S		Wire netting including posts and gate as per drawings																	
			Lon side	2.00	110.00			20.00	4,400.00											
			Short side	2.00	55.00			20.00	2,200.00											
			Top	1.00	110.00			55.00	6,050.00											
							Total	=	12,650.00	Sft	12,650.00	Sft	1	75.00	948,750.00					
9	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	=	206.25	x	0.95	=	195.46	Cft									
							Total	=	195.46	Cft	195.46	Cft	100	7,585.75	14,827.22					
															Total		PKR 4,469,761			
															Say		PKR 4,469,800			

CONSTRUCTION OF ALTAF PARK IN JHELUM CITY
Estimate for Rain Water Discharge

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

Sr No	MRS		DESCRIPTION	Qty	Unit	Rate	Amount	
	1st.2023						Rs.	
	Ch.	Item						
23	1	1	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe, complete:- i) 18" (450 mm) i/d Total = 100.00 Rft	100.00	Rft	1	2,826.70	282,670.00
23	2	2	Boring for tubewell in all types of soil except shingle, gravel & rock, from a depth of 100.1 ft. to 200 ft. (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete:- g) 18" (450 mm) i/d Total = 30.00 Rft	30.00	Rft	1	3,290.65	98,720.00
	9	9	Providing and installing, brass strainer in tubewell bore hole, including sockets, special sockets, studs, etc. complete: g) 8" i/d, 3/16" (200 mm i/d 5 mm) thick Total = 60.00 Rft	60.00	Rft	1	10,600.45	636,027.00
	15	15	Providing and installing M.S. blind pipe socketed/welded joint, M.S. reducer (where necessary), in tubewell bore hole, including jointing/welding with strainer, etc. complete:- g) 8" i/d, 3/16" (200 mm i/d 5 mm) thick Total = 72.00 Rft	72.00	Rft	1	3,039.15	218,819.00
			Pea Gravel 0.25 3.14 1.50 1.50 130.00 229.73 Less blind pipe -0.25 3.14 0.67 0.67 130.00 (45.42) Total = 184.31 Rft	184.31	Rft	1	111.00	20,458.00
			Providing and fixing cast iron special of B.S.S. Class 'B' 9.1 (such as bend, tee cross collar, reducer, tail piece, flanged spigot, cap, flanged socket, taper, angle branch, plug etc.) for cast iron pipe line , complete:- a) C.I.S.S. Specials, with spigot. And socket joint:- ii) 8" to 12" (200 to 300 mm) i/d Total = 10.00 Kg	10.00	Kg	1	136.60	1,366.00
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. Recharge well 0.25 x 3.14 x 20.00 x 20.00 x 8.67 = 2,723.77 Cft Sedimentation tank 1 2.00 16.75 11.00 4.83 = 1,779.86 Cft Total = 4,503.62 Cft	4,503.62	Cft	1000	13,046.90	58,758.00
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 Recharge well 0.25 x 3.14 x 20.00 x 20.00 x 0.33 = 103.67 Cft Sedimentation tank 1 2.00 16.75 11.00 0.33 = 121.61 Cft					

CONSTRUCTION OF ALTAF PARK IN JHELUM CITY
Estimate for Rain Water Discharge

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

Sr No	MRS		DESCRIPTION	Qty	Unit	Rate	Amount	
	1st.2023						Rs.	
	Ch.	Item						
3	6	5.i	Caps 1 x 3.14 x 15.75 x 0.75 x 0.17 = 6.31 Cft					
			1 x 2.00 x 12.50 x 0.75 x 0.17 = 3.19 Cft					
			1 x 2.00 x 6.75 x 0.75 x 0.17 = 1.72 Cft					
			1 x 1.00 x 3.00 x 3.00 x 2.50 = 22.50 Cft					
			-1 x 1.00 x 1.50 x 1.50 x 2.00 = (4.50) Cft					
			Drain 1 x 2.00 x 15.00 x 0.33 x 1.00 = 9.90 Cft					
			Bed 1 x 15.00 x 3.00 x 3.00 x 2.50 = 337.50 Cft					
			Total = 601.90 Cft	601.90	Cft	100	37,614.70	226,401.10
4	7	4	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1:4:8					
			Recharge well 0.25 x 3.14 x 20.00 x 20.00 x 0.58 = 182.21 Cft					
			Sedimentation tank 1 x 2.00 x 16.75 x 11.00 x 0.58 = 213.73 Cft					
			= - Cft					
			Total = 395.94 Cft	395.94	Cft	100	28,513.19	112,896.00
			Pacca brick work in foundation and plinth in:-i) Cement, sand mortar:- Ratio 1:4)					
			1st step 1 x 3.14 x 18.00 x 2.00 x 1.00 = 113.10 Cft					
1 x 2.00 x 15.75 x 2.00 x 0.33 = 20.79 Cft								
1 x 2.00 x 10.00 x 2.00 x 0.33 = 13.20 Cft								
1st step 1 x 3.14 x 17.25 x 1.13 x 1.00 = 60.97 Cft								
1 x 2.00 x 15.75 x 1.50 x 0.33 = 15.59 Cft								
1 x 2.00 x 9.00 x 1.50 x 0.33 = 8.91 Cft								
1st step 1 x 3.14 x 16.50 x 0.75 x 6.17 = 239.87 Cft								
1 x 2.00 x 15.75 x 0.75 x 5.00 = 118.13 Cft								
1 x 2.00 x 7.50 x 0.75 x 5.67 = 63.79 Cft								
Baffale wall 1 x 2.00 x 6.00 x 0.75 x 2.75 = 24.75 Cft								
			Net Total = 679.09 Cft	679.09	Cft	100	32,454.60	220,396.66
5	16	11	Supply within 5 chains (150 m):- c) Mixed graded shingle					
			0.25 x 3.14 x 15.00 x 15.00 x 3.75 = 662.68 Cft					
			Net Total = 662.68 Cft	662.68	Cft	100	3,182.25	21,088.17
6	N/S		Harrow coarse c) Mixed graded shingle					
			0.25 x 3.14 x 15.00 x 15.00 x 2.50 = 441.79 Cft					
			Net Total = 441.79 Cft	441.79	Cft	1	150.12	66,321.14
7	9	15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)					
			1 = 2.00 No.					
			Total = 2.00 No.	2.00	Sft	1	889.80	1,779.60
8	1	1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), suitable for 150 Cft. (4.25 cu.m) of timber by truck or by any other means					

CONSTRUCTION OF ALTAF PARK IN JHELUM CITY
Estimate for Rain Water Discharge

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

Sr No	MRS		DESCRIPTION	Qty	Unit	Rate	Amount
	1st.2023						Rs.
	Ch.	Item					
			(unstacked), surkhi, etc. of 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 = 395.94 x 0.95 = 375.23 Cft				
			Pcc 1.2.4 :as per item No. 2.00 = 601.90 x 0.88 = 529.67 Cft				
			P.c.c 1.2.4 :as per item No. #REF! = x 0.88 = - Cft				
			Total = 904.90 Cft	904.90	Cft	100	7,585.75
						Total	PKR 776,284
						Say	PKR 776,300

DETAILED DESIGN OF INFRASTRUCTURE SUB - PROJECTS SECTOR

CONSTRUCTION OF ALTAF PARK 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)
Material			
Harrow sand @ Rs. 7800/100 cft	100	78.00	7,800.00
20% bulking margin		0.20	1,560.00
Total			9,360.00
Labour			
Coolies un-skilled	3 - Nos.	1050	3,150.00
Total			3,150.00
Total labour + material			12,510.00
20% Contractor's O.H. & Profit	Rs.	0.20	2,502.00
Total for 100 Cft			15,012.00
Composite rate per 100 Cft			PKR 15,012.00
Composite rate per Cft	Rs.	150.12	150.12

**DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECT
CONSTRUCTION OF NEW PARKS IN JHELUM CITY
ABSTRACT OF COST - ELECTRICAL NETWORK
ALTAF PARK JHELUM**

Sr. No.	Description	Amount
1	Altaf Park Park Electrical Works	9,839,836
2	Altaf Park External Lighting Civil Works	-
TOTAL		9,839,836

ENGINEERING COST ESTIMATE (ELECTRICAL WORKS)
RATE ANALYSIS OF NON- SCHEDULE ITEMS OF ELECTRICAL WORKS
ALTAF PARK JHELUM
EXTERNAL LIGHTING

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
1	12meter Ring Type Pole	3	No.	140,000	420,000	20%	28,000.00	168,000	504,000
2	10meter 4-Arm pole	12	No.	73,000	876,000	20%	14,600.00	87,600	1,051,200
5	200 watt Flood Light	12	No.	90,200	1,082,400	20%	18,040.00	108,240	1,298,880
16	Photoelectric Switch	1	No.	11,000	11,000	20%	2,200.00	13,200	13,200

**ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS
ALTAF PARK JHELUM
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 4 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 10-meter 4-arm 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	12	87,600.00	1,051,200
3	24/86/a/ii	Supply, installation, testing, and commissioning of MCB for Pole connection plate for luminaire for switching. 6 Amp (6 KA)	Each	60	1,184.45	71,067.00
SUB HEAD 2: LUMINAIRES						
4	NS	Supply & Installation of LED Luminaires 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 luminaires 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.				
		200 Watts	Each	12	108,240.00	1,298,880
5	24/69/a/v	Supplying, installation and commissioning of LED Cobra-head Luminaires 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 /Ligtech 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	48	60,061.10	2,882,933
SUB HEAD 3: POWER CABLES & CONDUITS						
6	24/13/c/vi	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I . wire/trenches, etc. (rate forcable only):- c)PVC insulated, PVC sheathed 4 core, 600/1000 volt non armoured cable:- vi) 10 mm (7/0.052")	Rft	4242	525.75	2,230,021
7	24/13/a/iii	Supply and erection of copper conductor cables for service connection, in pre-laid pipe/G.I wire/trenches, etc. (rate for cable only):- a) PVC insulated, PVC sheathed twin-core, 250/440 volts. iii) 7/0.74 mm (7/0.029")	Rft	2584	93.90	242,642
8	24/13/c/viii	Supply and erection of copper conductor cables for service connecti on, in pre-laid 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	100	1,301.65	130,165.00
9	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	4,182	285.05	1,191,965
SUB HEAD 4: LIGHTING CONTROL PANEL						
10	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 a) 6" Deep i) 20~60A	P.Cft	3.75	19,686.70	73,825
Incomming						

**ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS
ALTAF PARK JHELUM
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)						
11	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. a) Tripple Pole (i) 63 Amp (7.5 KA)	Each	1	12,036.95	12,037
12	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. (xv) Magnetic Contactor (b) 40 A (AC 3)	Each	1	21,756.95	21,757
13	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 (viii) Control MCB S/P 6A (Make: Schneider/ Terasaki/ABB)	Each	1	1,266.95	1,267
14	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 (x) Auto/Manual Switch 3-Steps (Make: GGT/Camsco)	Each	1	1,956.95	1,957
15	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 (vi) Push Button ON/OFF (Make: Schneider/Himal/Eqv.)	Each	1	480.80	481
16	NS	Photo Electric Switch Type (10 Amp)	Each	1	13,200.00	13,200
Outgoing						
17	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			
17a	24/86/c/ii	Tripple Pole 20 Amp (6 KA) [4+2(spare)]	Each	6	7,236.95	43,422
SUB HEAD 5: MAIN DB-ALTAF PARK						
18	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 a) 6" Deep (ii) 75~100A	P.Cft	5	14,499.95	72,500
Incomming						
19	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. Tripple Pole 125 Amp (18 KA)	Each	1	25,356.95	25,357
Outgoing						
20	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.				
20a	a/ii	Tripple Pole (Lighting Control Panel) 100 Amp (10 KA)	Each	1	12,276.95	12,277
20b	a/ii	Tripple Pole (Cafeteria) 63 Amp (10 KA)	Each	1	12,276.95	12,277
20c	a/ii	Tripple Pole (Bathroom) 20 Amp (10 KA)	Each	1	12,276.95	12,277
20e	a/i	Tripple Pole (Open Museum+Spare) 40 Amp (7.5 KA)	Each	2	12,036.95	24,074
SUB HEAD 6: EARTHING						
21	24/70	Earthing of iron-clad/aluminum switches, etc. with G.I. wire No.8 SWG in G.I. pipe 15 mm (1/2") 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	17	10,198.95	173,382
TOTAL (Rs.)						8,476,695
TOTAL (Rs.) Million PKR						8.477

**ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS
ALTAf PARK JHELUM
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
 ALTAF PARK JHELUM
 BATHROOM**

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
6	10 W LED Downlight	8	No.	9,950	79,600	20%	1,990.00	11,940	95,520
7	5 W LED Downlight	16	No.	9,300	148,800	20%	1,860.00	11,160	178,560
8	Vanity Light	2	No.	2,000	4,000	20%	400.00	2,400	4,800

**ENGINEERING COST ESTIMATE FOR ELECTRICAL WORKS
ALTAF PARK
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)						
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 prelaid 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 prelaid 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)	Incoming 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 prelaid 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
ALTAF PARK
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)	Outgoing 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 screwes,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
ALTAF PARK
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
15	Bracket Fan	1	No.	6,000	6,000	20%	1,200.00	7,200	7,200
16	10 W LED Downlight	27	No.	9,950	268,650	20%	1,990.00	11,940	322,380
17	5 W LED Downlight	19	No.	9,300	176,700	20%	1,860.00	11,160	212,040
18	Vanity Light	2	No.	2,000	4,000	20%	400.00	2,400	4,800

**DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECT
CONSTRUCTION OF NEW PARKS
IN JHELUM CITY
ABSTRACT OF COST
PLUMBING WORK
ALTAF PARK JHELUM**

Sr. No.	Description	Amount
ABSTRACT OF COST WATER SUPPLY & PLUMBING NETWORK ALTAF PARK JHELUM		
Sr. No.	Description	Amount
1	Altaf Park Sewerage Works	4,100,447
2	Altaf Park Water Supply works	12,485,599
TOTAL		Rs 16,586,046

PUNJAB CITIES PROGRAM (PCP)

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

PARK AT JHELM CITY

Altaf Park

Engineer's Cost Estimate for Sewerage Works

Item No.	MRS 01-2023	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)	
	Ch	Item	Sewerage Network (Cafeteria, male & female Toilet, female lounge)				
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	30,352.00	12,836.55	389,614.97
2	3	13	Rehandling of earthwork: b) Upto a lead of 50 ft. (15 m).				
			Cft	1000	24,281.60	3,880.80	94,232.03
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	3769.00	768.85	2,897,795.65
		b) 4" i/d (100 mm)	Rft	1		402.70	-
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. iii) 225 mm (9:) i/d				
			Rft	1	25.00	553.85	13,846.25
5			Septic tank 12x4x4				
			Each		2.00	191,648.87	383,297.75
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.				
		(ii) Lever Type Basin Mixer	Each		6.00	6,563.40	39,380.40
		(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

Item No.	MRS 01-2023		Description	Unit		Qty	Rate (Rs.)	Amount (Rs.)
7	19	4	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest. i) white	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. a) P-Trap (i) 4" dia	Each		2.00	1,082.40	2,164.80
9	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
10	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. iii) white, without pedestal	Each		6.00	6,793.90	40,763.40
11	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
			TOTAL					4,100,447.05

PUNJAB CITIES PROGRAM (PCP)

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

Parks at Jhelum City

Altaf Park

Engineer's Cost Estimate for Water Supply Works

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	203,384.00	8,321.30	1,692,419.28
2	7	30	Supplying and filling sand under floor; or plugging in wells.(in trenches under pipes)	Cft	100	134233.44	2,862.00	3,841,761.05
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	8,069.30
			(iii)(1") 32 mm	Rft		45.00	94.40	4,248.00
			(ii)(3/4") 25 mm	Rft		175.00	58.60	10,255.00
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					
			c) 2½" i/d (65 mm)	Rft		1,188.00	1,000.00	1,188,000.00
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				

Item No.	MRS		Description	Unit		Qty	Rate (Rs.)	Amount (Rs.)
			b) PN-8 (SDR-21) 7) 90 mm	Rft		14,188.00	197.30	2,799,292.40
			b) PN-8 (SDR-21) 5) 63 mm	Rft		10,047.00	98.60	990,634.20
6	23	31	Providing and installing sluice (gate) valve of B.S 3464 quality as per drawing (including cost of jointing					
			a) 3" i/d (75 mm)	Each		33.00	18,204.95	600,763.35
7	Rate Analysis Attached		Providing and construction of inspection chambers for gate valves as per drawing complete in all respects.	Each		4.00	22,216.92	88,867.69
8	Rate Analysis Attached		Providing and construction of Valve chambers for gate valves as per drawing complete in all respects.	Each		33.00	31,222.38	1,030,338.56
9			Pump Water Fountain	Each		1.00	55,000.00	55,000.00
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	175,950.00
TOTAL								12,485,598.83

Altaf Park of Jhelum City										
RATE ANALYSIS FOR 4' Dia MAN HOLE										
MRS-1/2023			Description	Rate	Qty	Unit	Amount			
Sr. #	Chap	Item					Rs.			
4' Dia 4.88' Depth										
1	3	42-i	Earth work excavation for sewer and manholes chamber etc: in O/soil. 0-7' Depth Ch-3 item-42i	3.142 x 7.50 x 7.50 x	x 0.25 x 6.80 =	300.45 Cft.				
							Rs.		3,856.79	
2	3	42-ii	7'-15 Depth Ch-3 item-42i	3.142 x 7.50 x 7.50 x	x 0.25 x 0.67 =	0.00 Cft.				
							Rs.		-	
3	6	2	Dry rammed brick or stone ballast 1 1/2" to 2" in F/P.	3.142 x 7.50 x 7.50 x	x 0.25 x 1.00 =	44.18 Cft.				
							Rs.		4,374.25	
4	6	3	Cement concrete brick or stone ballast 1 1/2" to 2" (40 mm to 50 mm) gauge, in foundation and plinth:- (d) Ratio 1: 6:12	3.142 x 6.50 x 6.50 x	x 0.25 x 0.67 =	22.24 Cft.				
							Rs.		4,932.55	
5	6	5f	P.C.C. i/c placing compacting finishing & curing complete etc: ratio 1:2:4 Bed	3.142 x 4.00 x 4.00 x	x 0.25 x 0.25 =	3.14 Cft.				
							Cft.		3.14	
							Cft.		3.14	
			D/d pipe portion	3.142 x 0.00 x 0.00 x	x 0.25 x 4.00 =	0.00 Cft.				
							Cft.		3.14	
							Rs.		1,181.85	
6	6	6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded a-i (a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or 3 (3) Type C (nominal mix 1: 2: 4)							
			Top slab	3.142 x 4.00 x 4.00 x	x 0.25 x 0.50 =	6.28 Cft.				
			Deduct Cover	3.142 x 2.00 x 2.00 x	x 0.25 x 0.50 =	1.57 Cft.				
							Cft.		4.71	
							Rs.		2,669.21	
7	6	12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and (b) Deformed bars (Grade-40)							
			Item 6	4.71 Cft @	6 / 2.205 =	12.82681666 Kg				
							Rs.		4,047.64	
8	7	7i+10	Pacca brick work other than building (1:3) ratio with extra for circular masonry. 1st Step 2nd Step	1 x 3.142 x 4.75 x	x 0.75 x 1.63 =	18.25 Cft.				
				3.142 x 4.75 x 3.00 x	x 0.75 x 3.50 =	31.96 Cft.				
							Cft.		50.21	
			Ch-7 item-7i + 10				Rs.		17,602.41	
			10 Extra for pacca brick work in steining of wells or any other circular masonry.				Rs.		-	
							Rs.		2,150.31	
9	11	7b	Cement and plaster (1:2) ratio. 1/2" thick (out side) 1st Step 4th Step	1 x 3.142 x 5.50 x	x 5.50 x 1.63 =	28.17 Sft				
				3.142 x 5.50 x 3.75 x	x 3.50 =	50.86 Sft				
							Sft		79.03	
			Ch-11 item-7b				Rs.		3,216.05	
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" (500 mm) Ch-21 item-15A				Rs.		12,467.05	
11	21	9	Extra for making benching etc: complete. Ch-21 item-9	3.142 x 4.00 x	x 4.00 x 0.25 =	12.57 Sft				
							Rs.		391.91	
12	21	13	P/F angle iron steps 1 1/4"x1 1/4" x 3/16" size. Ch-21 item-13				Rs.		3,053.75	
13	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. Item 5 6	1:2:4 = 3.14 Cft 1:2:4 4.71 Cft	0.88 = 2.76 0.88 = 4.15	6.91 Cft				
							Rs.		639.72	
Total:-									PKR 59,943.78	
Say:-									59,944.00	

Jhelum Parks									
Rate Analysis for Inspection Chamber size 2'x2' For sluice valves									
						Size	2.0 x	2.00	3.50
MRS, 1st BI-ANNUAL (01-01-2023 to 30-06-2023) DISTRICT JHELUM									
Sr No	MRS 1st.2023		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	<u>Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge</u> 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.):-						

Jhelum Parks							
Rate Analysis for Inspection Chamber size 2'x2' For sluice valves							
				Size	2.0 x	2.00	3.50
MRS, 1st BI-ANNUAL (01-01-2023 to 30-06-2023) DISTRICT JHELUM							
Sr No	MRS 1st.2023		DESCRIPTION	Qty	Unit	Rate	Amount
	Ch.	Item					Rs.
			(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:-				

Jhelum Parks									
Rate Analysis for Inspection Chamber size 2'x2' For sluice valves									
						Size	2.0 x	2.00	3.50
MRS, 1st BI-ANNUAL (01-01-2023 to 30-06-2023) DISTRICT JHELUM									
Sr No	MRS 1st.2023		DESCRIPTION	Qty		Unit	Rate	Amount	
	Ch.	Item						Rs.	
8	6	12.b	(3) Type C (nominal mix 1: 2: 4)						
			Slab 1 x 3.50 x 3.50 x 0.50 = 6.13 Cft						
			D/d M.H Cover 1 x 0.786 x 2.00 x 2.000 x 0.50 = 1.57 Cft						
			Total = 4.55 Cft	4.55	Cft	1	566.35		2,578.92
			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. 7 = 4.55 x 6.750 / 2.204 = 13.95 Kg						
			Total = 13.95 Kg	13.95	Kg.	100	31,556.10		4,400.76
9		MRS PRICE	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 Price 7000						
			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
			<u>Ch. 01 Item No.1</u>						
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 ##### from Margalla quarry						
			Pcc 1.4.8 :as per item No. 3 = 8.000 x 0.948 = 7.58 Cft						
			Pcc 1.2.4 :as per item No. 5 = 0.000 x 0.880 = 0.00 Cft						
			R.c.c 1.2.4 :as per item No. 7 = 4.554 x 0.880 = 4.01 Cft						
			Total = 11.59 Cft	11.59	Cft	100	9,254.62		1,072.49
						Total			PKR 22,216.92
						Say			22,200.00

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	Item					Rs.		
Ch.									
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 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						

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								
			Total = 42.00 Cft	42.00	Cft	1	456.95	19,191.90	
			(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 13.5 x 5.50 x 0.500 = 37.13 Cft						
			Openings 2 x 0.786 x 2.000 x 2.00 x 0.500 = -3.142 Cft						
			Total = 37.13 Cft	37.13	Cft	1	566.35	21,025.74	
6	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):-						
			('c) Deformed bars (Grade-60						
			Qty: as per item No. 5 = 42.00 x 6.750 / 2.204 = 128.63 Kg						
			5 = 37.13 x 6.750 / 2.204 = 113.70 Kg						
			Total = 242.33 Kg	242.33	Kg.	100	31,556.10	76,469.67	
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 Price 7,000.00						
			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						
			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	108.61	Sft	100	4,602.00	4,998.11	
9	21	13	Providing and fixing 1/4"x1/4"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						
			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						

<p style="text-align: center;">Jhelum Parks Rate Analysis for Septic Tank 12' x 4' x 4'</p>										
						Size	12.0 x	4.00	4.00	
<p style="text-align: center;">MRS, 1st BI-ANNUAL (01-01-2023 to 30-06-2023) DISTRICT JHELUM</p>										
Sr No	MRS		DESCRIPTION	Qty		Unit	Rate	Amount		
	1st.2023							Rs.		
Ch.	Item									
			Total = 99.11 Cft	99.11	Cft	100	9,254.62	9,171.84		
						Total		PKR 191,648.87		
						Say		191,600.00		

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	<p>A) Extra for Carriage 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.</p> <p>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</p> <p style="text-align: right;">Sub - Total (A) 7,585.75</p> <p>B) Extra Carriage for 22 Cft Material = 7,585.75 x 0.22 100 Cft 1,668.87 1,668.87</p> <p style="text-align: right;">Sub - Total (B) 1,668.87</p> <p style="text-align: right;">Total (A+B) 9,254.62</p> <p style="text-align: right;">For 100 Cft 9,254.62 For Per Cum 3,268.24</p>				
			50 Cft				3) The quantity of crushed stone aggregate for payment of carriage shall betaken as per actual loose volume but not more than 122 Cft.

PUNJAB CITIES PROGRAM OPERATION & MAINTENANCE COST ALTAH 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
8.64	12	103.64	3,005.68	37,830.06	1,097,071.74	98,398.36	1,800,000.00	720,000.00	960,000	4,675,470

O & M COST BREAKDOWN

<i>Total Park Lights Load in KWh</i>									<i>Total Park Lights Load in Kw</i>	8.64 Killo watt
<i>Daily Operation Time</i>	=	12 hrs	<i>Killo watt hours / day</i>	=	8.64 X 12				=	103.64 Killo watt - hour
<i>Electricity Cost per day @ 29/- unit rate</i>	=	103.64 x 29		=	3,005.68 PKR					
<i>Kwh per year</i>	=	103.64X 365		=	37,830.06 Kwh					
<i>Electricity Cost per Anum @ 29/- unit rate</i>	=	37830.06 X 29		=	1,097,071.74 PKR					
<i>Repair & Maintenance Cost @ 1% of Total Cost</i>	=	1%		=	98,398.36 PKR					
<i>Salaries per year</i>	=	<i>Electrician + Inspector</i> 35,000 x 12	45,000 x 12	=	960,000				PKR	
		<i>Electricity Cost per Anum</i>			37830.06					
<i>Total O & M cost/ Anum</i>	=	<i>Repair & Maintenance Cost</i>		=	98398.36					
		<i>Salaries per year</i>			960,000					
										4,675,470 PKR
										4.675 Millions

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INTERNATIONALLY APPROVED



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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	
	Total Amount				1,300,000.00	

Best regards
 Al-Hozaiyah 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"

Pr. #	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 Topehri 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	Bamboos 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 Jeh-lam

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 sods 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	10,000	Bag	200	2000,000
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: number 1, 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

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

Date: 21-03-23

Ref #: _____

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:

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: _____

Quotation of
Kala Gujran Parks in Jehlem
"Just Supply"

Pr. #	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 Topehri 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	Bamboos 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



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.	Four Arm 10 Meter High Octagonal Pole Hot Dip Galvanized Specification: 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	Rs: 73,000/-
2.	Top Ring	Rs: 140,000/-
3.	12 Meter High Octagonal Pole Hot Dip Galvanized Specification: 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 x3.0 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 griding 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

CEO

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

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

Panasonic

ideas for life

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/-
		TOTAL	PKR 79,960/-

THANK YOU FOR YOUR BUSINESS!

ANNEXURE – C

Economic Analysis, Sensitivity Analysis & Cost Benefit Ratio

Punjab Cities Program (PCP)

Rehab of Altaf 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:-

- Construction of New Cafeteria for the Visitors.
- Construction of public toilets
- Construction of Pathways / Walkways
- Grass, Tree Plantation
- Provision of Guard Rooms (Security measures for the public)

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.101.45 million.

In Economic term, these costs are calculated out as Rs. 89.276 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) Fees charged on toilet use (if any)

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, 2019
- 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. An acre of trees can absorb up to 2.6 tons of carbon dioxide each year.

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)

CONSTRUCTION OF NEW PARKS IN JHELUM CITY

Project Implementation Period Chart

Sr. No.	Activity	Apr	May	Jun	Jul	Aug
		2023	2023	2023	2023	2023
1	ALTAF PARK					

ANNEXURE – E

Environment & Social Mitigation Cost

Environmental and Social Screening Checklists of the Sub-Project.

Rehabilitation of Altaf Park Jhelum Environmental & Social Screening Checklist

Instructions:	
<p>Environmental and Social Focal Persons (ESFPs)¹ 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.</p> <p>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</p> <p>It is to be attached with the main document² of sub-projects at planning stage and will be duly signed by the relevant ESFP and endorsed by the respective DPO-ESM</p> <p>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</p> <p>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.</p>	
Name of ESFP:	Muhammad Ahmad MOI&S/ Muhammad Dawood MOP
Name of MC:	Jhelum
Sub-Project Sector:	parks
Sub-Project Title:	Rehabilitation of Existing Altaf Park in Jhelum City 9 Acre
Sub- Project Categorization:	E-2 & S-2
Date of Screening:	10-09-2022
Sub- Project Categorization:	
E-1 <input type="checkbox"/>	S-1 <input type="checkbox"/>
E-2 <input checked="" type="checkbox"/>	S-2 <input checked="" type="checkbox"/>
E-3 <input type="checkbox"/>	S-3 <input type="checkbox"/>
Anticipated Activities:	
<ul style="list-style-type: none"> • Construction of Walkway • Rehabilitation of Boundary wall • Rehabilitation of Main Gate • Construction of Toilet Block • Construction of Cafeteria • Construction of Gazebos • Installation of New Benches • Rehabilitation of Existing Benches • Installation of New Swings 	

¹In 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.

² It is

<ul style="list-style-type: none"> • Construction of Rain Water Storage Tank • Construction of Jogging 	
Estimated Cost of Subprojects	107.46 Million PKR
Tentative Completion Time/Duration	6 months
Estimated Labor for Subproject	20

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
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
Socially sensitive /important areas/communities/ people?			
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 mosque and shrine observed
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meter of the proposed sub project ³	✓		One 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 ⁴ of the society and women or children)?		✓	Not applicable
Already existing infrastructure ⁵ (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		✓	Not applicable
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?	107	✓	Not applicable

Screening Questions	Yes	No	Remarks
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.
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(like Fountains, old benches) 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

³Ibid.

⁴due to caste, creed, religion or gender e.g. transgender

⁵Sewerage /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
			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?	✓		<p>The noise pollution during construction phase because of project vehicles and construction machinery is expected.</p> <p>The mitigation includes use of tuned vehicles and machinery will be ensured.</p> <p>Vibration abating devices will be used.</p> <p>Use PPEs by labor will be ensured.</p> <p>The working hours will be scheduled and restricted in school, colleges and prayers timings in daytime only.</p>
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?	✓		<p>The stagnant water in construction areas may create temporary breeding habitat for mosquitoes and resulting in dengue issue. Proper housekeeping and tidy conditions will avoid the creation of breeding habitats.</p> <p>Use of anti-mosquito spray will be ensured</p>
15. Use of chemicals during construction?		✓	Not applicable
C: Potential Social Impacts			
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

Screening Questions	Yes	No	Remarks
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 ESMP, 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 result in injury to the community throughout project construction, operation and decommissioning?	✓		Contractor staff to be trained w.r.t H&S issues. Liaison with local emergency services and hospitals.
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

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: Rehabilitaion of Altaf Park Jhlum 9 Acre

Sub- Project Categorization: E-1 & S-2

Date of Screening: 10-9-2022

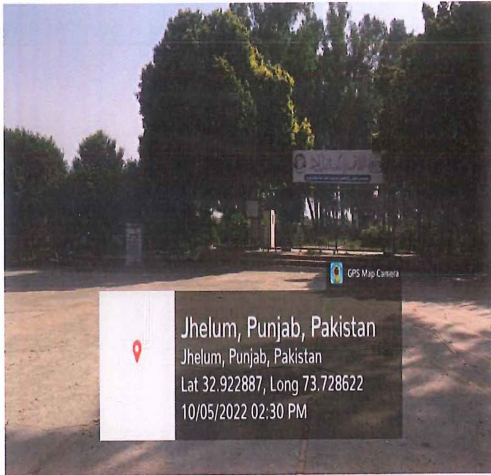
SECTION 1	Yes	No	Expect ed	Remarks
Does the project require land acquisition? Yes/No				Already Park exist and land owned by govt so no land acquired for this sub project
If yes, then describe the type of land being acquired from thecategories below:				No Land acquired for this sub project
Has any AED been conducted at the proposed location by thegovernment ¹ ? Yes/No				Not observed in sub project area and confirm by MC Staff also
Land (Quantify and describe types of land being acquired in“remarks column”).				No Land acquired for this sub project
Government and LG owned land free of occupation (agriculture or settlement)				Already Park exist and land is owned by govt
Government or state-owned land (other than LG) free of occupation (agriculture or settlement)				No Land acquired for this sub project
Private land				No Land acquired for this sub project
Residential				No Land acquired for this sub project
Commercial				No Land acquired for this sub project
Agricultural				No Land acquired for this sub project
Communal				No Land acquired for this sub project
Others (specify in “remarks”).				Already park exist and land is owned by govt
Name of owner/owners and type of ownership document ifavailable.				Already park exist and land is owned by govt
If land is being acquired, describe any structures constructed on it				No Land acquired for this sub project

Land-based assets:				No Land acquired for this sub project
Residential structures				No Land acquired for this sub project
Commercial structures (specify in “remarks”)				No Land acquired for this sub project
Community structures (specify in “remarks”)				No Land acquired for this sub project
Agriculture structures (specify in “remarks”)				
Public utilities (specify in “remarks”)				Already park exist and land is owned by govt.ramps are away from ROW.
Others (specify in “remarks”)				No Land acquired for this sub project
If agricultural land is being acquired, specify the following:				No Land acquired for this sub project
Agriculture related impacts				No Land acquired for this sub project
Crops and vegetables (specify types and cropping area in “remarks”).				No Land acquired for this sub project
Trees (specify number and types in “remarks”).				No Land acquired for this sub project
Others (specify in “remarks”).				No Land acquired for this sub project
Affected Persons (APs)				No Persons Affected during this Project
Will any people be displaced from the land when acquired? Yes/No				No Land acquired for this sub project
Number of APs				No Persons Affected during this Project
Males				No Persons Affected during this Project
Females				No Persons Affected during this Project
Titled landowners				No Land acquired for this sub project

Tenants and sharecroppers				No Land acquired for this sub project
Leaseholders				No Land acquired for this sub project
Agriculture wage laborers				Not involved in this project
Encroachers and squatters (specify in remarks column)				No Land acquired for this sub project
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”.				No Land acquired for this sub project no one effected during this this intervention
Others (specify in “remarks”)				Not involved in this project

Prepared By: Name: Nasir Altaf Designation: Social Safeguards Specialist Signature	Reviewed By: Name: Tehmina Kiran Designation: PO ESM-PMDFC Signature	Endorsed By: Name: Muhmmad Dawood Designation: MOP Signature
---	---	---

Pictures of Altaf park Jhelum Field Visit



Estimated ESMP Implementation Cost Rehabilitation of Altaf Park Jehlum			
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

Altaf Park

Jehlum (Package I)



Consultants

MMP

MMP Park Development

CENTRAL DESIGN CELL
2nd Floor, CTI Building,
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Government of Punjab



Punjab Municipal Development
Fund Company
Development (PMDFC)

Financing Agency

WORLD BANK

Project

Punjab Cities Program (PCP)

Zeeshan Colony Park
for male

Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale at A3	As Shown

Rev	Status
0	Draft

PUNJAB CITIES PROGRAM - (PCP) REHABILITATION OF ALTAF PARK AT JHELUM




01. ALTAF PARK AT JHELUM

1.	MMP-1074P01-JHE-PARK-RH-ATF-AR- 01	SURVEY LAYOUT PLAN OF ALTAF PARK.
2.	MMP-1074P01-JHE-PARK-RH-ATF-AR- 26	PARK LAYOUT PLAN OF ALTAF PARK.
3.	MMP-1074P01-JHE-PARK-RH-ATF-AR- 551	LIGHT POLES LAYOUT PLAN
4.	MMP-1074P01-JHE-PARK-RH-ATF-AR- 552	LIGHT CONDUIT LAYOUT PLAN
5.	MMP-1074P01-JHE-PARK-RH-ATF-AR- 126	3D VIEW-01
6.	MMP-1074P01-JHE-PARK-RH-ATF-AR- 127	3D VIEW-02
7.	MMP-1074P01-JHE-PARK-RH-ATF-AR- 128	3D VIEW-03
8.	MMP-1074P01-JHE-PARK-RH-ATF-AR- 129	3D VIEW-04
9.	MMP-1074P01-JHE-PARK-RH-ATF-AR- 130	3D VIEW-05

02. TYPICAL DRAWINGS OF ALTAF PARK AT JHELUM

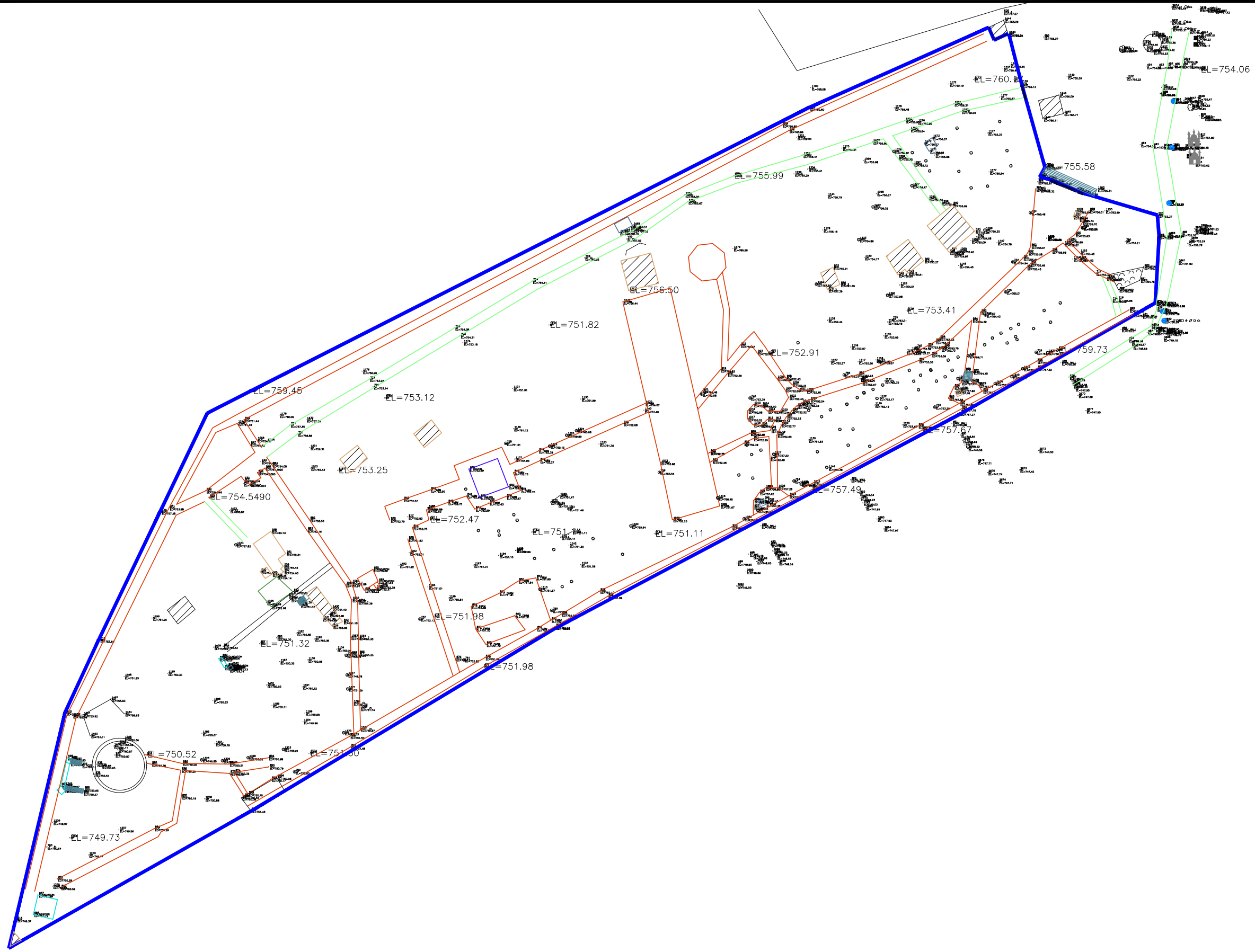
1.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-501	CAFETERIA DETAIL-01.
2.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-502	CAFETERIA DETAIL-02.
3.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-503	CAFETERIA DETAIL-03.
4.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-504	CAFETERIA DETAIL-04.
5.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-505	CAFETERIA DETAIL-05.
6.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-506	CAFETERIA DETAIL-06.
7.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-507	CAFETERIA DETAIL-07.
11.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-551	ELECTRICAL LIGHTING & POWER LAYOUT PLAN.
12.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-601	SEWERAGE LAYOUT PLAN.
13.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-651	WATER SUPPLY LAYOUT PLAN.
14.	MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-751	CAFETERIA 3D VIEW.
15.	MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-501	MALE & FEMALE TOILET DETAIL-01.
16.	MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-502	MALE & FEMALE TOILET DETAIL-02.
17.	MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-551	ELECTRICAL LIGHTING LAYOUT PLAN.
18.	MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-601	SEWERAGE LAYOUT PLAN.
19.	MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-651	WATER SUPPLY LAYOUT PLAN.

20.	MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-751	TOILET 3D VIEW.
21.	MMP-1074P01-JHE-PARK-RH-TYP-GB-AR-501	GAZEBO DETAIL.
22.	MMP-1074P01-JHE-PARK-RH-TYP-GB-AR-551	ELECTRICAL LIGHTING LAYOUT PLAN.
23.	MMP-1074P01-JHE-PARK-RH-TYP-GB-AR-751	GAZEBO 3D VIEW.
24.	MMP-1074P01-JHE-PARK-RH-TYP-FN-AR-501	FOUNTAIN DETAIL
25.	MMP-1074P01-JHE-PARK-RH-TYP-CB-AR-501	CONCRETE BENCH (TYPEA).
26.	MMP-1074P01-JHE-PARK-RH-TYP-CB-AR-751	CONCRETE BENCH 3D VIEW.
27.	MMP-1074P01-JHE-PARK-RH-TYP-WIB-AR-501	WROUGHT IRON BENCH (TYPE-B) DETAIL-01.
28.	MMP-1074P01-JHE-PARK-RH-TYP-WIB-AR-502	WROUGHT IRON BENCH (TYPE-B) DETAIL-02.
29.	MMP-1074P01-JHE-PARK-RH-TYP-MB-AR-751	WROUGHT IRON BENCH 3D VIEW.
30.	MMP-1074P01-JHE-PARK-RH-TYP-CM-AR-501	CONCRETE BENCH WITH M.S.TABLE (TYPE-C).
31.	MMP-1074P01-JHE-PARK-RH-TYP-GR-AR-751	3D VIEW.
32.	MMP-1074P01-JHE-PARK-RH-TYP-JG-AR-501	JOGGING TRACK & PATHWAY DETAIL.
33.	MMP-1074P01-JHE-PARK-RH-TYP-NCK-AR-501	NET CRICKET DEATAIL-01
34.	MMP-1074P01-JHE-PARK-RH-TYP-NCK-AR-502	NET CRICKET DEATAIL-02
35.	MMP-1074P01-JHE-PARK-RH-TYP-WT-AR-501	UNDER GROUND WATER TANK DEATAIL-1
36.	MMP-1074P01-JHE-PARK-RH-TYP-WT-AR-502	UNDER GROUND WATER TANK DEATAIL-2
37.	MMP-1074P01-JHE-PARK-RH-TYP-WT-AR-503	UNDER GROUND WATER TANK DEATAIL-3
38.	MMP-1074P01-JHE-PARK-RH-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-RH-TYP-LG-AR-501	LEGEND.




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ALTAF PARK AT JHELUM

ARCHITECTURE DRAWINGS



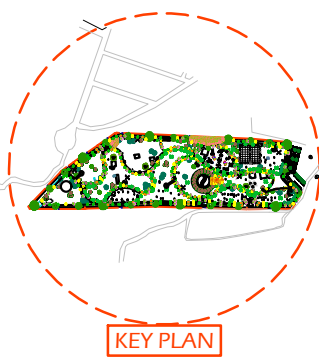
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Consultants  CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292528 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	Client  GOVERNMENT OF PUNJAB  Punjab Municipal Development Fund Company Department (PMDFC)	Financing Agency WORLD BANK Project Punjab Cities Program (PCP)	Rev.	Date	Description	Checked	Approved	Title SURVEY LAYOUT PLAN OF ALTAf PARK Drawing No. MMP-1074P01-JHE-PARK-RH-ATF-AR-01	Designed	MMP
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0



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
23	Jogging Track
24	Lawn Light Pole
25	High Luminance / Mast Pole
26	Three Phase Pole For Electric Swings
27	Existing Light Poles
28	Concrete Bench-1
29	Concrete Bench-2
30	Wrought Iron Bench
31	Gazebo
32	Public Toilets
33	Cafeteria
34	Storage Tank for Rain Water
35	Dust Bins
36	Demolish Existing Area

A PARK LAYOUT PLAN
A-101
Scale: 1" = 100'-0"



Consultants
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Rev.	Date	Description	Checked	Approved	Title

LAYOUT PLAN OF ALTAF PARK
 Drawing No.
 MMP-1074P01-JHE-PARK-RH-ATF-AR-26

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

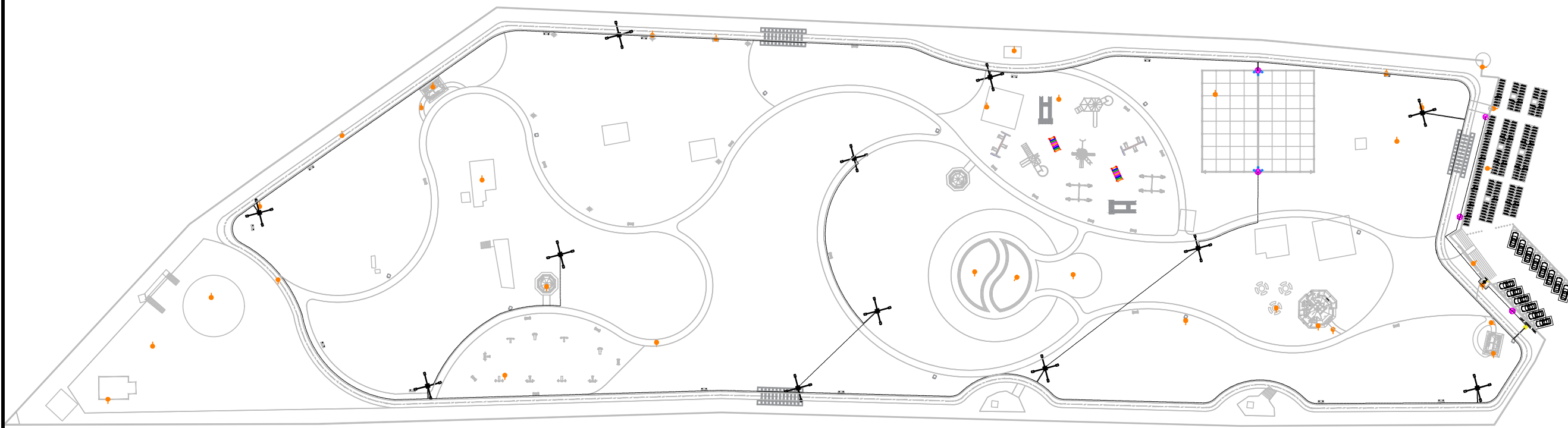
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ELECTRICAL DRAWINGS



LEGEND
EXTERNAL LIGHTING

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



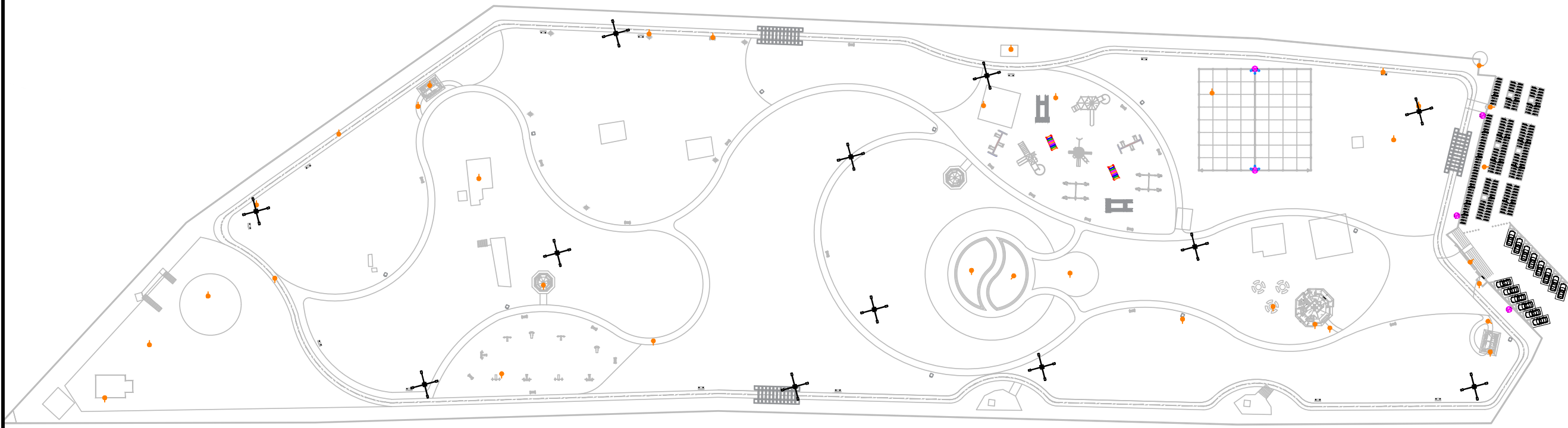
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									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0



LEGEND
EXTERNAL LIGHTING

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






Drawing file path & name: \\1. sheeraz-014-clies-purpab\03. Jhelum\UPDATED 24.01.2023\2. Altaf Park\ALTAF PARK ELECTRICAL WORKS\Altaf Park_ELECTRICAL-22-02-23

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									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0



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		Project Punjab Cities Program (PCP)	128						
								Checked MMP	Approved PMDFC
								Scale As Shown	Rev No: 0



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GOVERNMENT OF PUNJAB



Punjab Municipal Development Fund Company Department (PMDFC)

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WORLD BANK

Project

Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved

Title




3D VIEW-02 OF ALTAF PARK

Drawing No.
MMP-1074P01-JHE-PARK-ATF-AR-127

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






Drawing file path & name: \\1. sheeraz\0-14-clients\pmp\03\Jhelum\UPDATED 24.01.2023\2. Altaf Park\001 TITLE SHEET OF Altaf Park\List Of Drawings Parks of Jhelum\ALAF-23.2.23

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		Project Punjab Cities Program (PCP)	Drawing No. MMP-1074P01-JHE-PARK-ATF-AR-128	Rev No: 0		



Drawing file path & name: \\1. sheeraz\014-clients\pmp\03\jhelum\UPDATED 24.01.2023\2. Altaf Park\001 TITLE SHEET OF Altaf Park\List Of Drawings Parks of Jhelum\ALAF-23.2.23

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		Project Punjab Cities Program (PCP)	131			



Drawing file path & name: \\1. sheeraz\0-14-clies\puppb\03\jhelum\UPDATED 24.01.2023\2. Altaf Park\001 TITLE SHEET OF Altaf Park\List Of Drawings Parks of Jhelum\ALAF-23.2.23

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042-36292528
cdc.mmp@mmpakistan.com
http://www.mmpakistan.com

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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

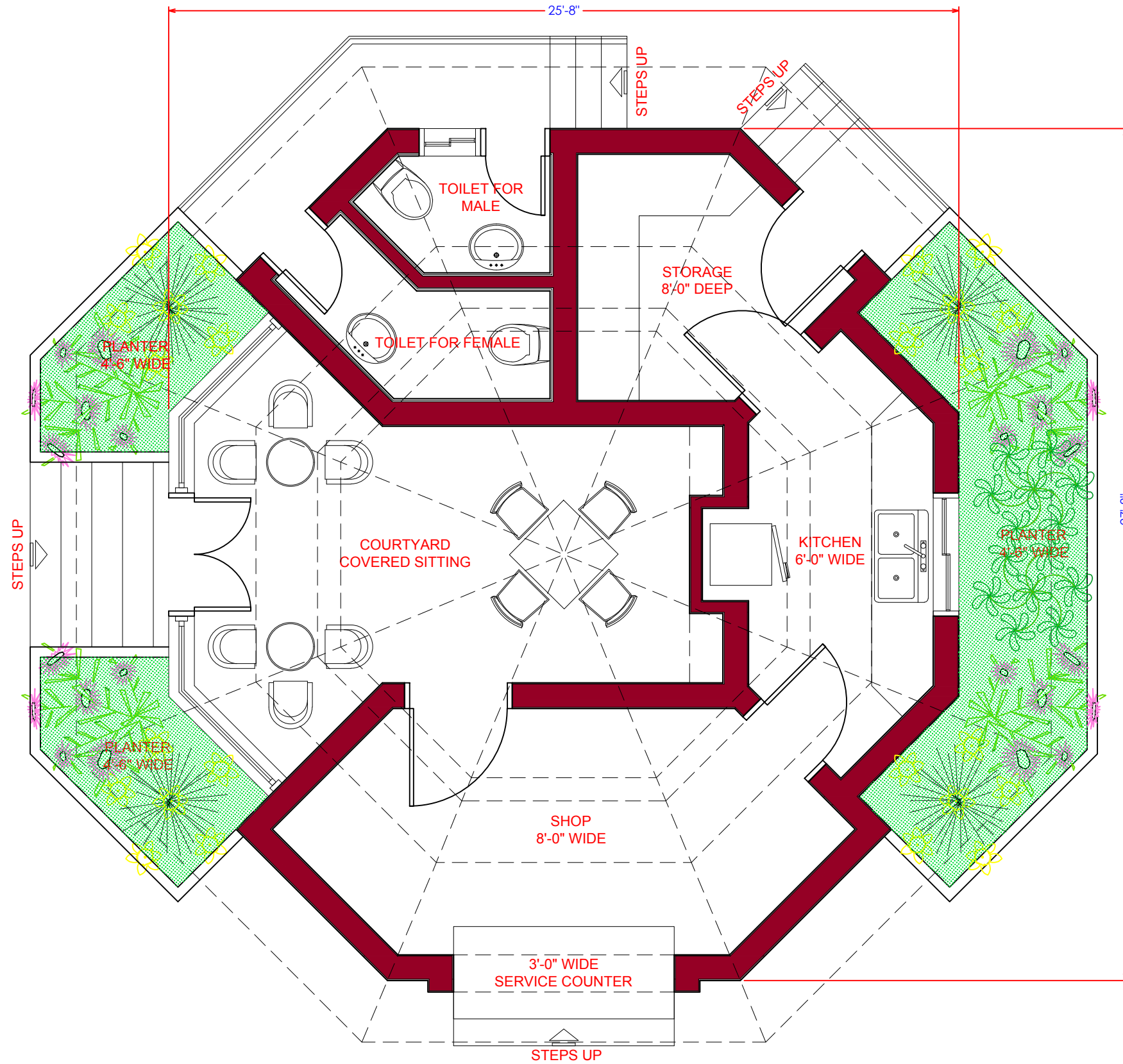
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3D VIEW-05 OF ALTAF PARK

Drawing No.
MMP-1074P01-JHE-PARK-ATF-AR-130

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

TYPICAL DRAWINGS



A CAFETERIA SECTIONAL PLAN AT A-A
 A-501 Scale: 1"=4'-0"

Consultants



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Client



GOVERNMENT OF PUNJAB



HEALTHY CITIES
 HELP BUILD
 PMDFC

Punjab Municipal Development
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 Department (PMDFC)

Financing Agency

WORLD BANK

Project

Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved

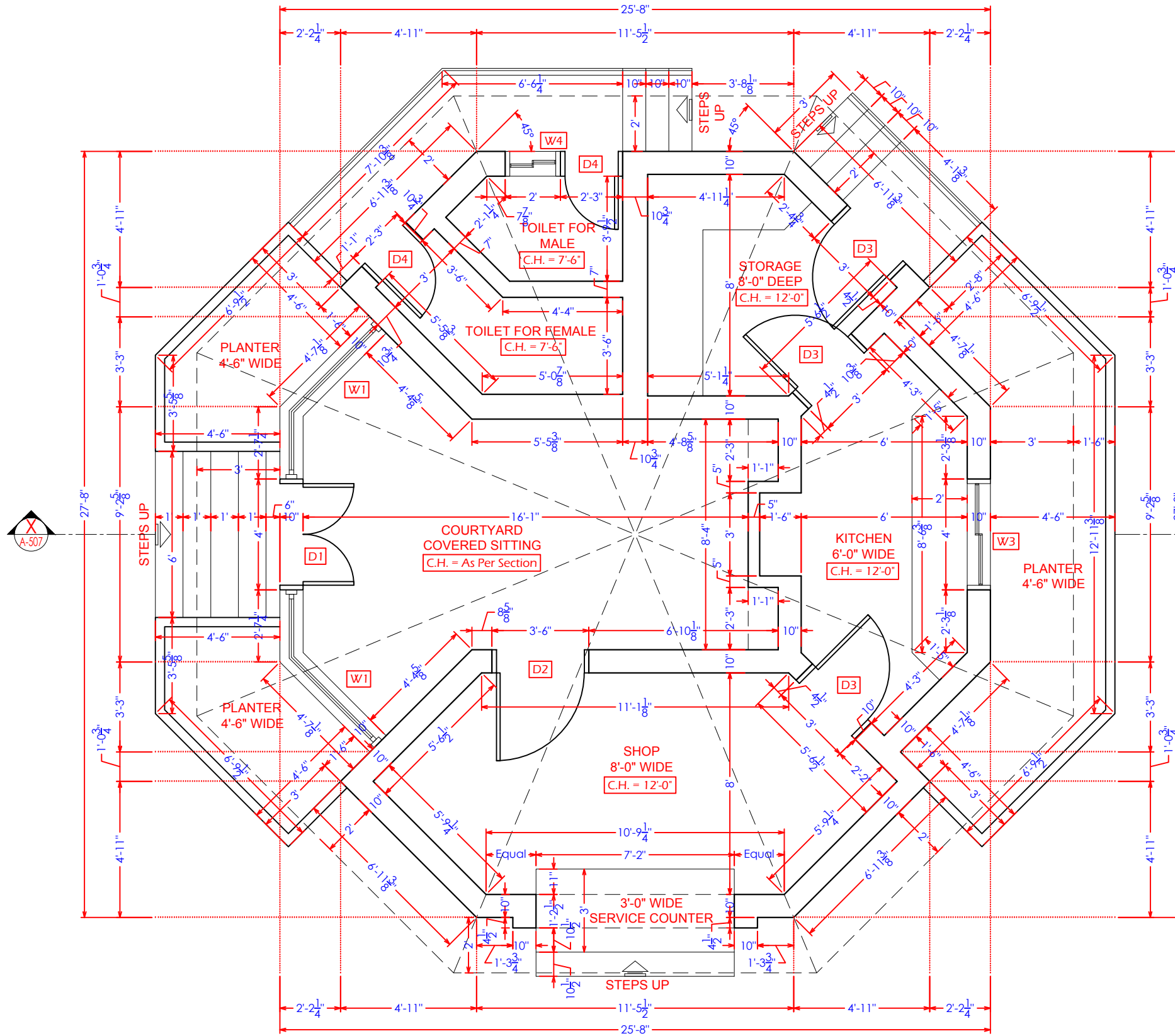
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CAFETERIA DETAIL-01

Drawing No.
 MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-501

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

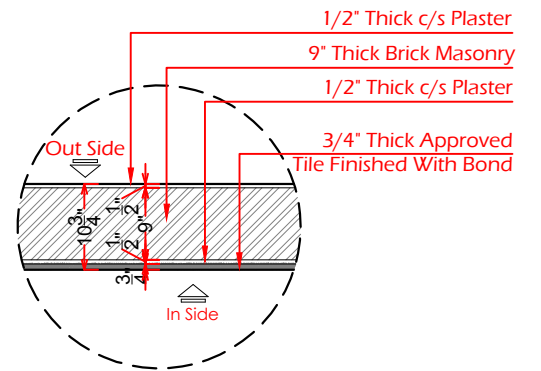
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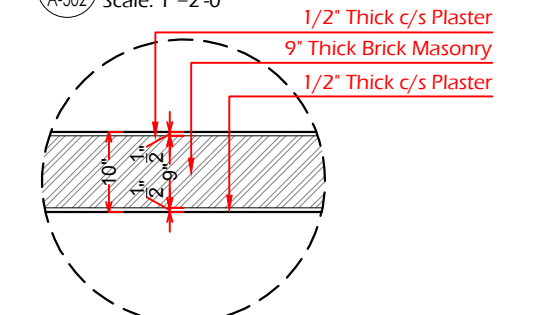
A CAFETERIA SECTIONAL PLAN AT A-A
 A-502 Covered Area Of 1st Canopy : 619 SFT.

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 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

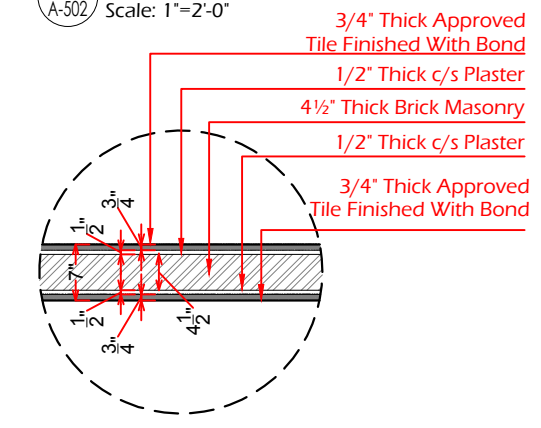
LEGEND	
09	C.H. CLEAR HEIGHT (Finished Floor To Bottom Of Slab)
10	G.L. GROUND LEVEL
11	F.F.L. FINISHED FLOOR LEVEL



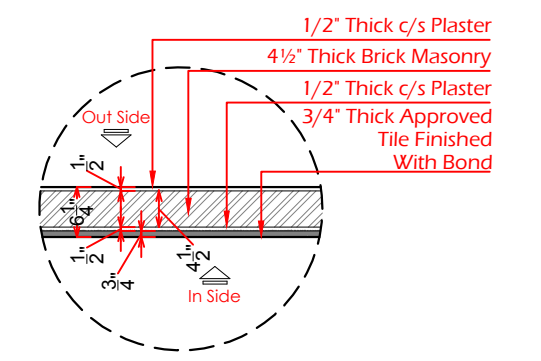
A 10 3/4" THICK WALL DETAIL
 A-502 Scale: 1"=2'-0"



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



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



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

Consultants
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 27-Emress Road, Lahore
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 042-36292528
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Client
GOVERNMENT OF PUNJAB
 Punjab Municipal Development
 Fund Company
 Department (PMDFC)

Financing Agency
WORLD BANK
 Project
 Punjab Cities Program (PCP)

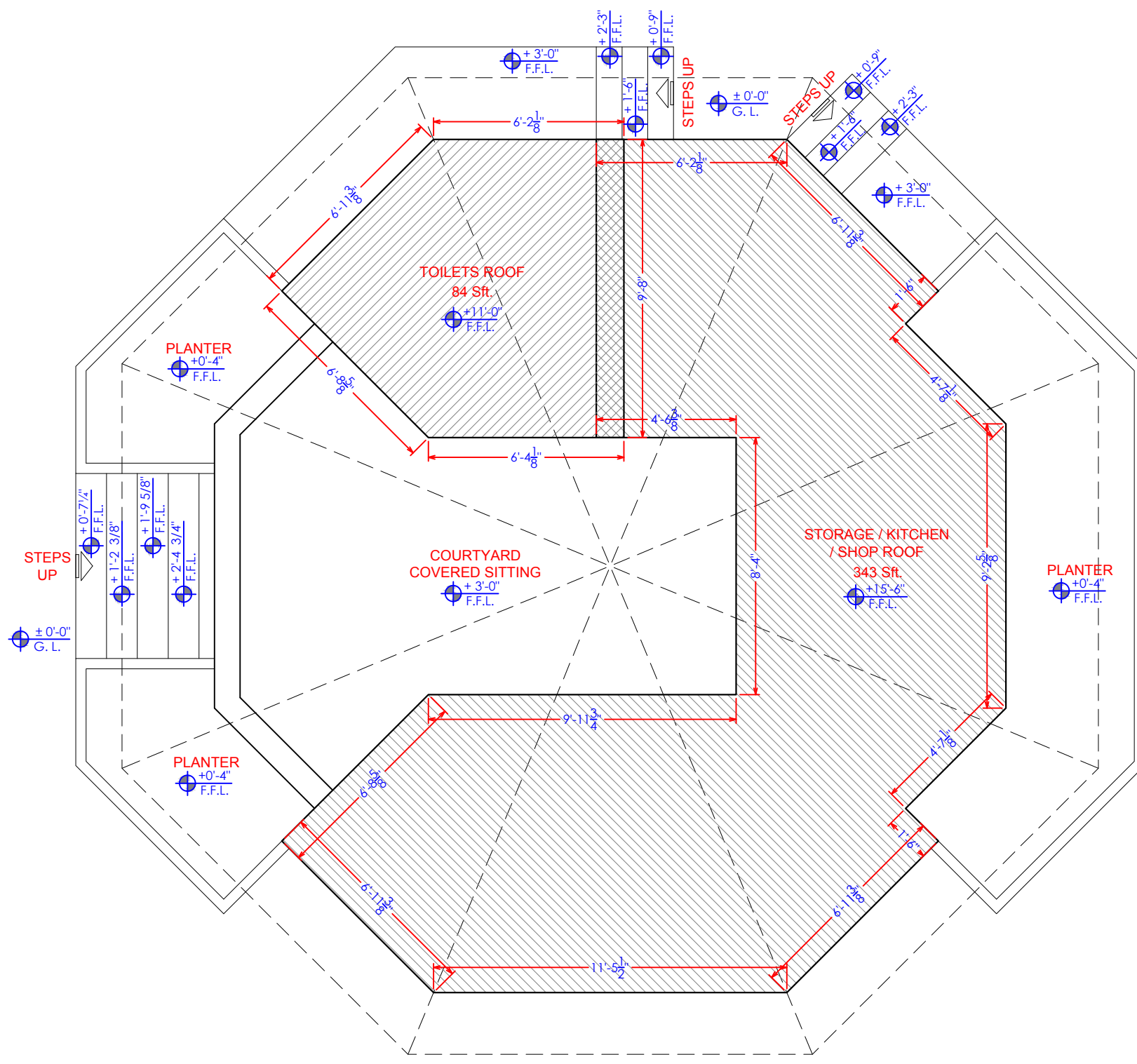
Rev.	Date	Description	Checked	Approved	Title

CAFETERIA DETAIL-02
 Drawing No.
 MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-502

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

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 ¹ / ₈ "X2'-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



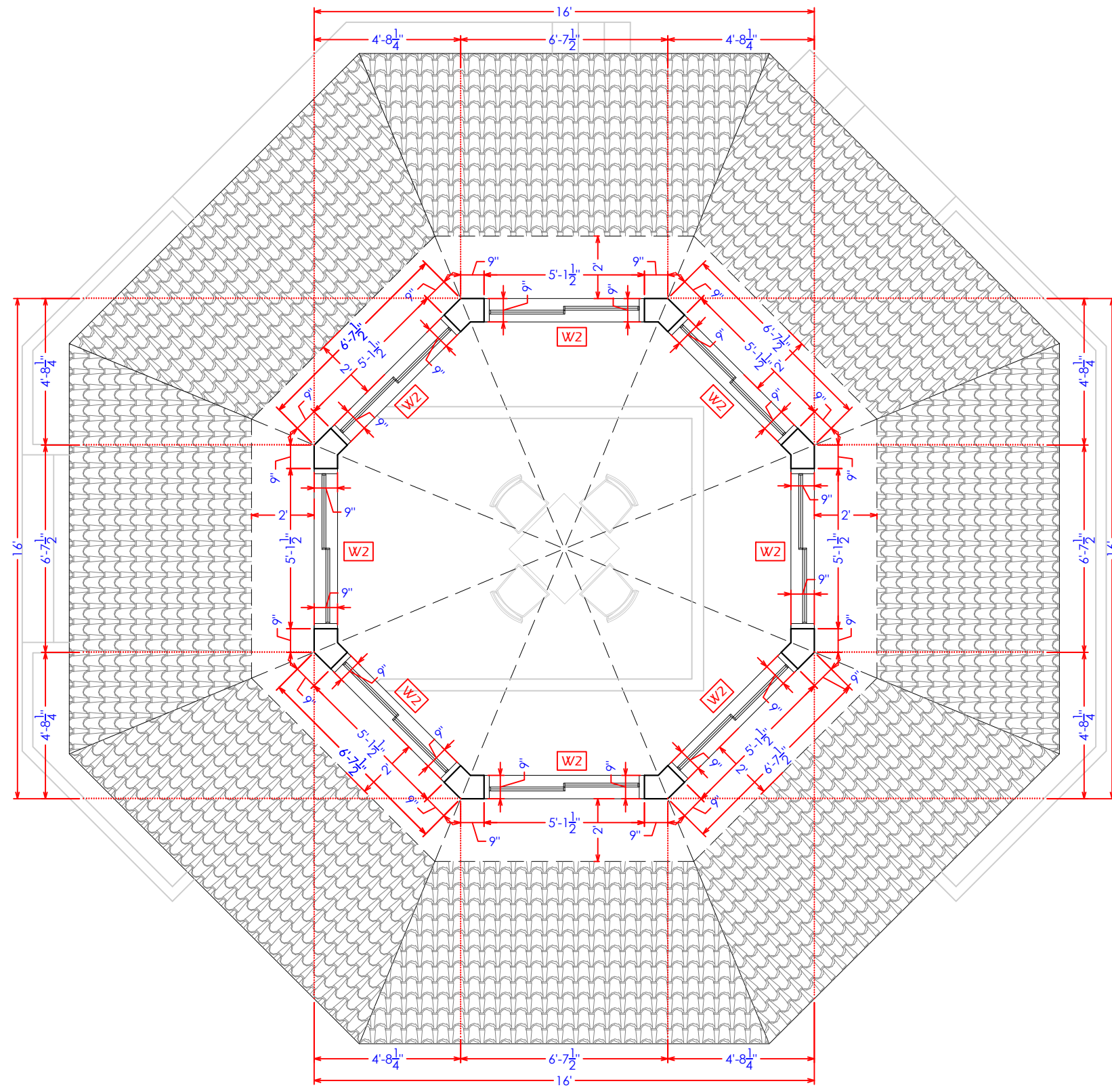
A CAFETERIA LEVELS PLAN
 A-503 Covered Area Of Flat Slab: 427 SFT.

Drawing file path & name: \\server\Public\Noorain Nadeem\14 Client\03_Heilmum\2 Allaf Park\Typical Drawings for Heilmum\03Typ_Cf-AR-503 To A-507 Cafeteria Detail

Consultants 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 CAFETERIA DETAIL-03 Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-503	Designed	MMP
										Drawn Checked Approved Scale
									Rev No:	0

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 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

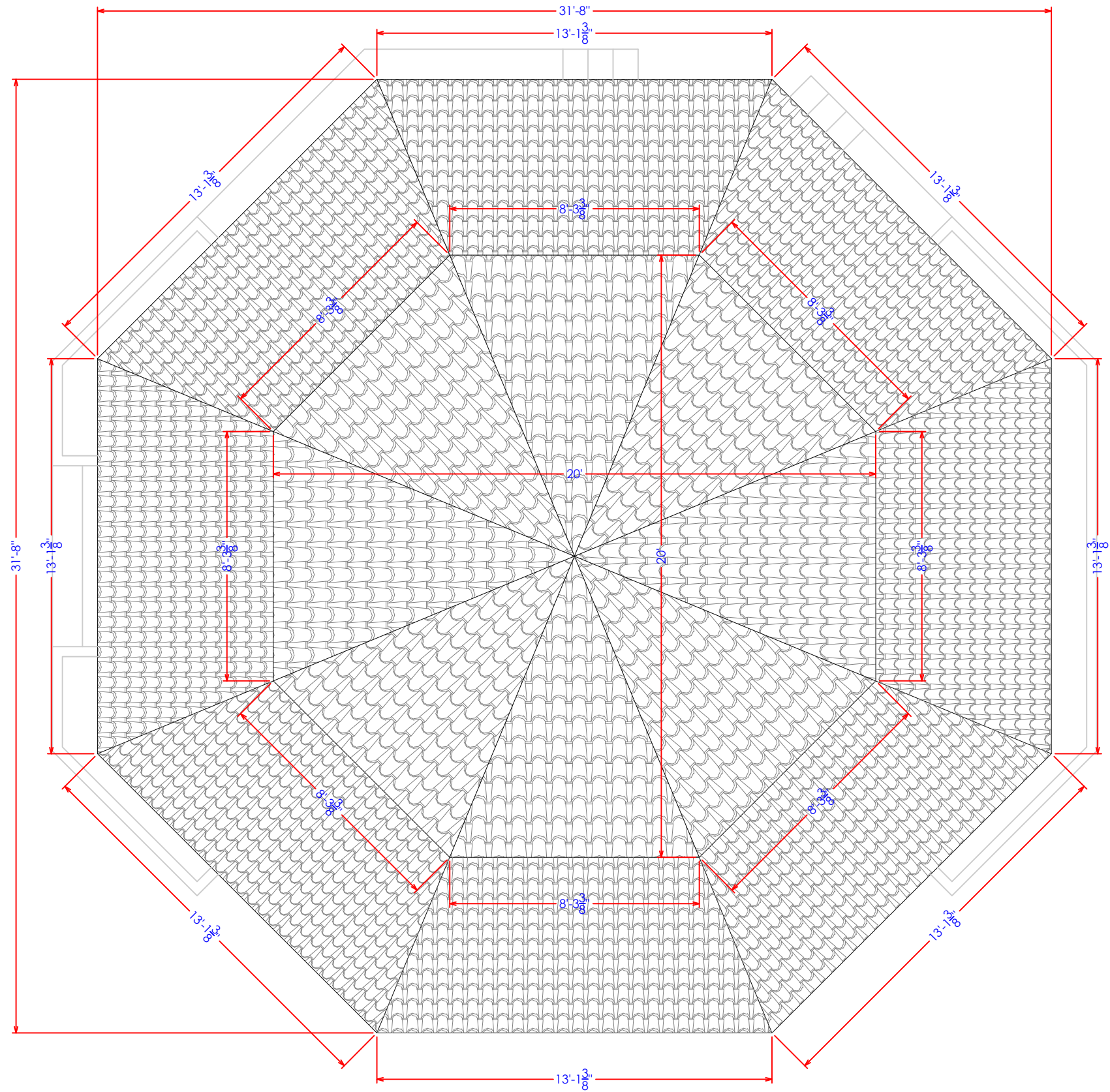
LEGEND		
09	C.H.	CLEAR HEIGHT (Finished Floor To Bottom Of Slab)
10	G.L.	GROUND LEVEL
11	F.F.L.	FINISHED FLOOR LEVEL



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




Drawing file path & name: \\server\Public\Noor\Nadk\1\4_Cheh\03_Initial\2_Altad Park\Typical Drawings for Jhelum\03Typ_Cf-AR-501 To A-507_Cafeteria Detail

Consultants CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292528 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 CAFETERIA DETAIL-04 Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-504	Designed	MMP
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0

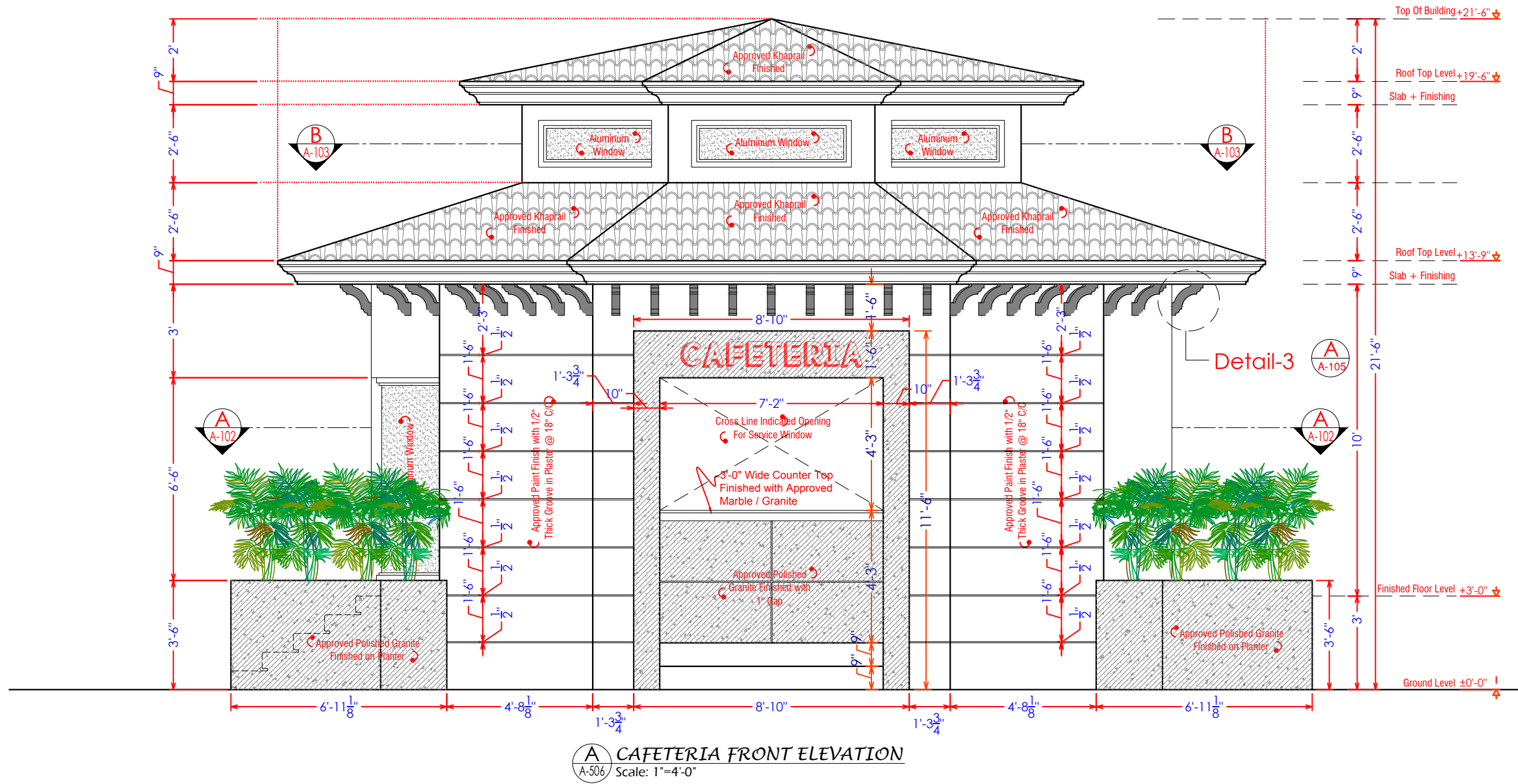


A CAFETERIA ROOF TOP PLAN
 A-505 Covered Area Of 1st & 2nd Canopy : 950 SFT.

Drawing file path & name: \\server\Public\Noorain Nadeem\14_Cities\03_Initial\2_Altad Park\Typical Drawings for Jhelum\03Typ_CF-AR-501 To A-507 Cafeteria Detail

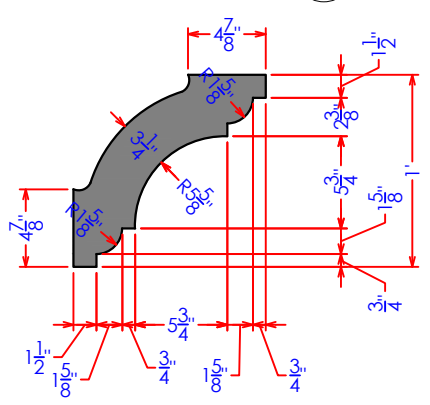
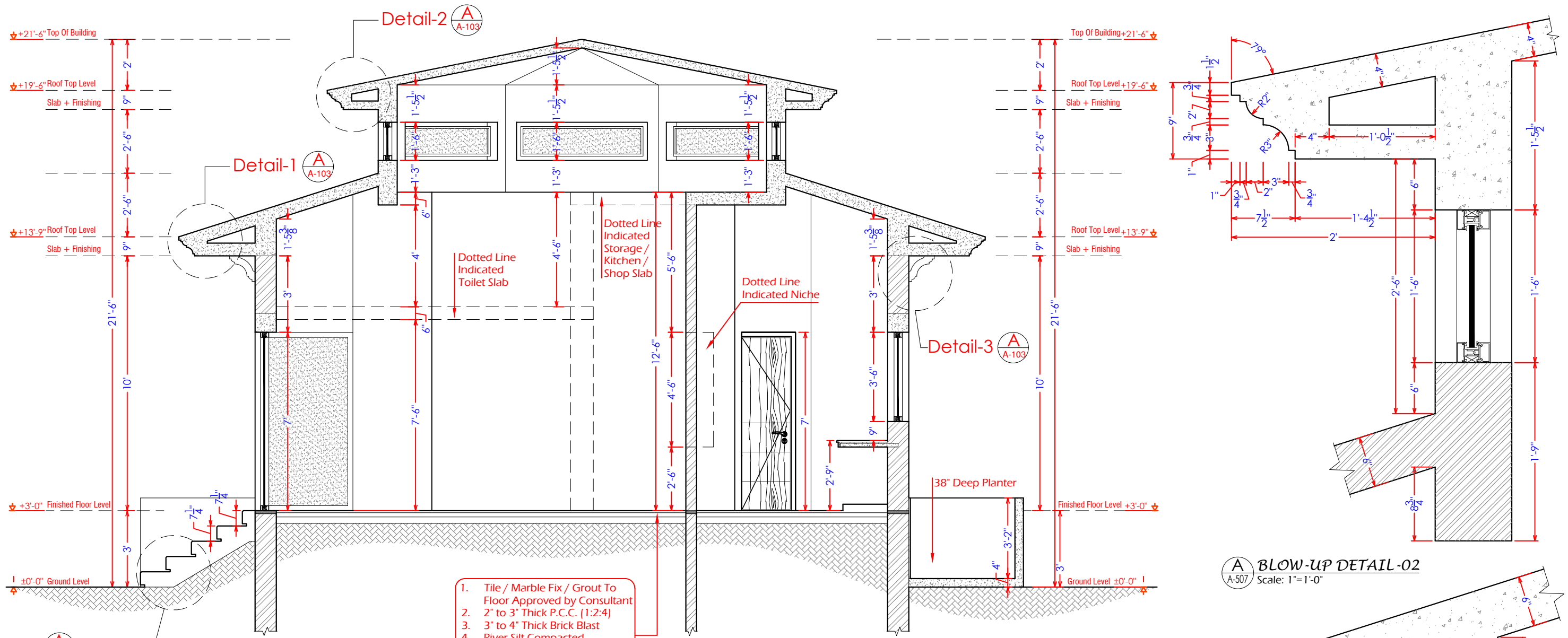
Consultants  CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	Client  GOVERNMENT OF PUNJAB  Punjab Municipal Development Fund Company Department (PMDFC)	Financing Agency WORLD BANK	Rev. 	Date 	Description 	Checked 	Approved 	Title CAFETERIA DETAIL-05 Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-505	Designed MMP
		Project Punjab Cities Program (PCP)							
								Checked MMP	Approved PMDFC
								Scale As Shown	Rev No: 0

Drawing file path & name: \\server\Public\Noorain Nadeem\14_CHEX\03_Initial\2_Altad Park\Typical Drawings for Jhelum\03Typ_Cf-AR-501 To A-507 Cafeteria Detail

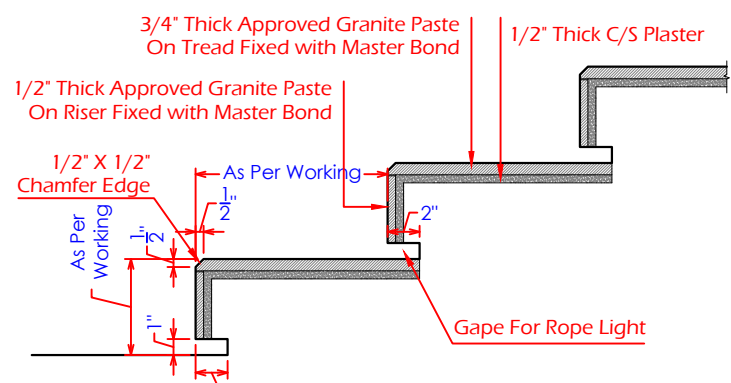


A CAFETERIA FRONT ELEVATION
A-506 Scale: 1"=4'-0"

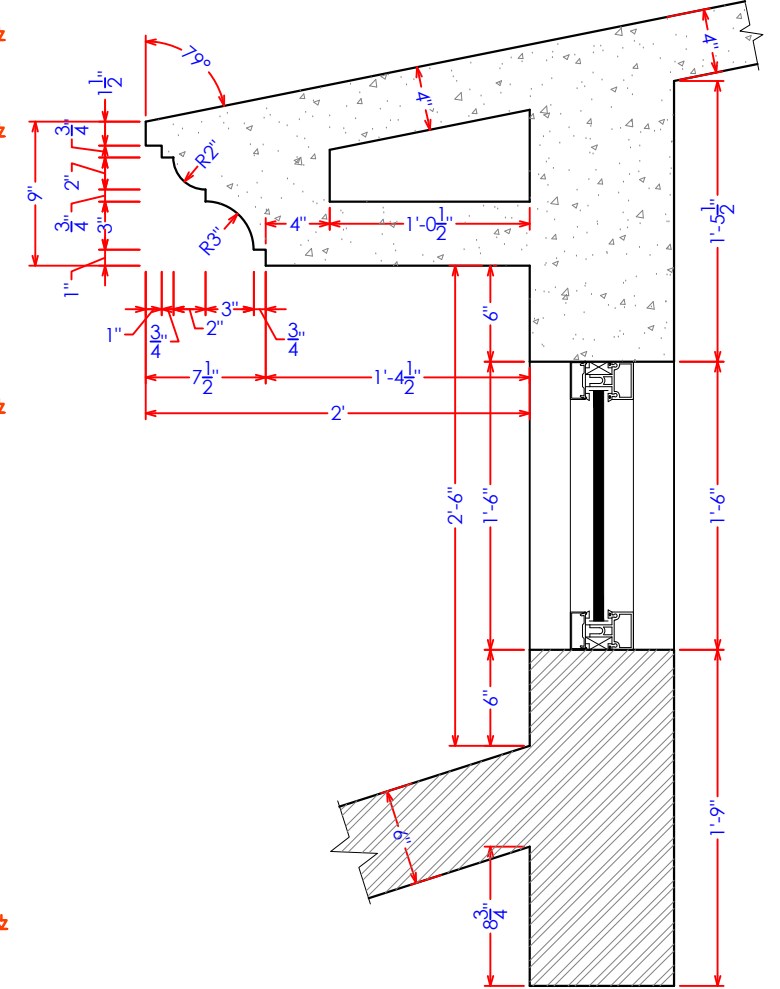
Consultants CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	Client GOVERNMENT OF PUNJAB Punjab Municipal Development Fund Company Department (PMDFC)	Financing Agency WORLD BANK Project Punjab Cities Program (PCP)	Rev.	Date	Description	Checked	Approved	Title CAFETERIA DETAIL-06 Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-506	Designed	MMP
										Drawn Checked Approved Scale As Shown



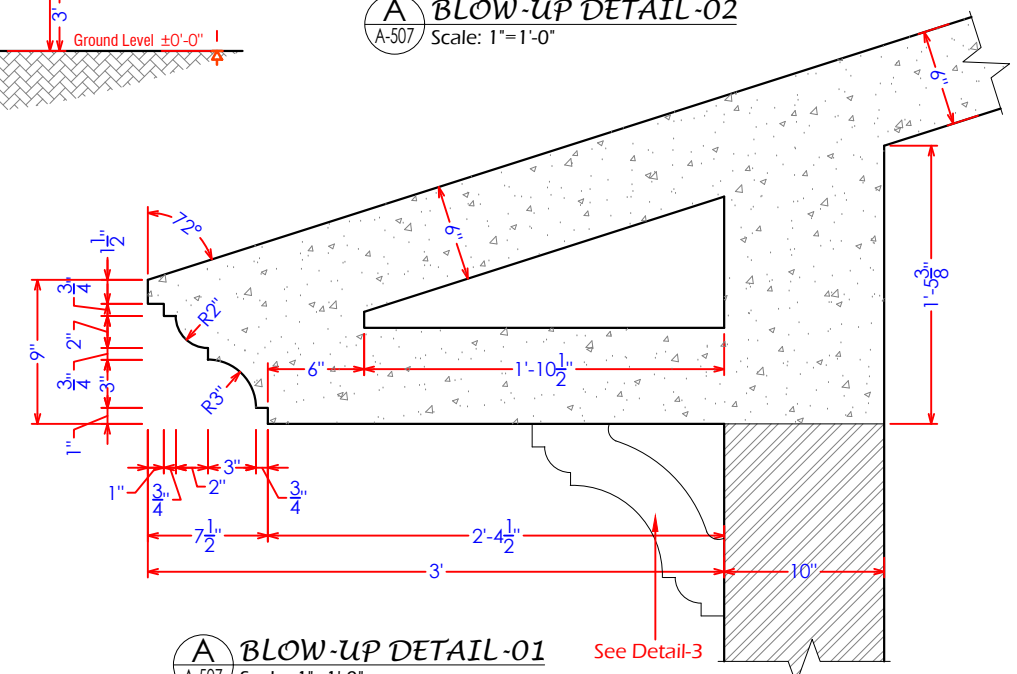
A BLOW-UP DETAIL-03
A-507 Scale: 1"=1'-0"



A BLOW-UP DETAIL-04
A-507 Scale: 1"=1'-0"



A BLOW-UP DETAIL-02
A-507 Scale: 1"=1'-0"



A BLOW-UP DETAIL-01
A-507 Scale: 1"=1'-0"

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

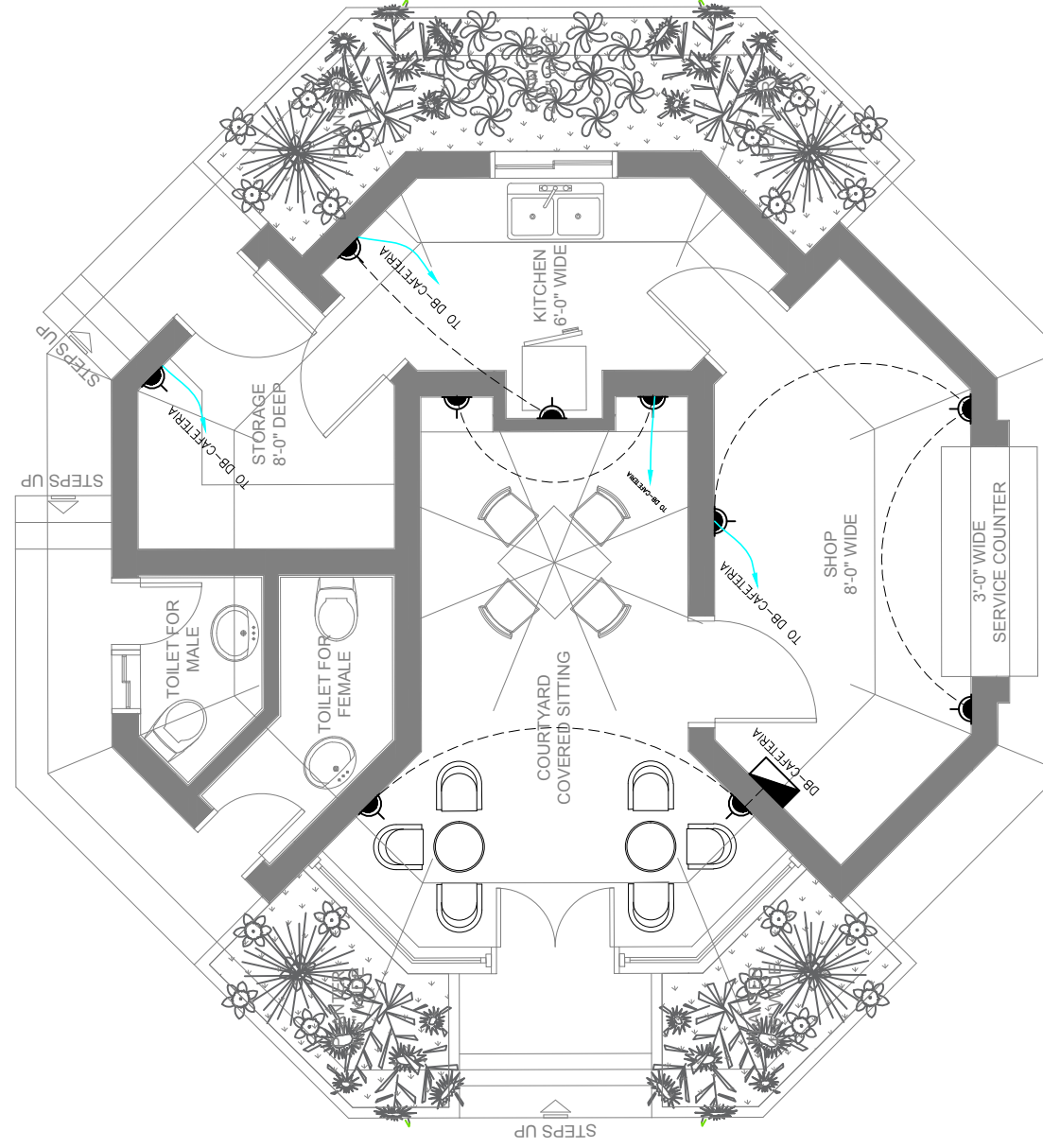
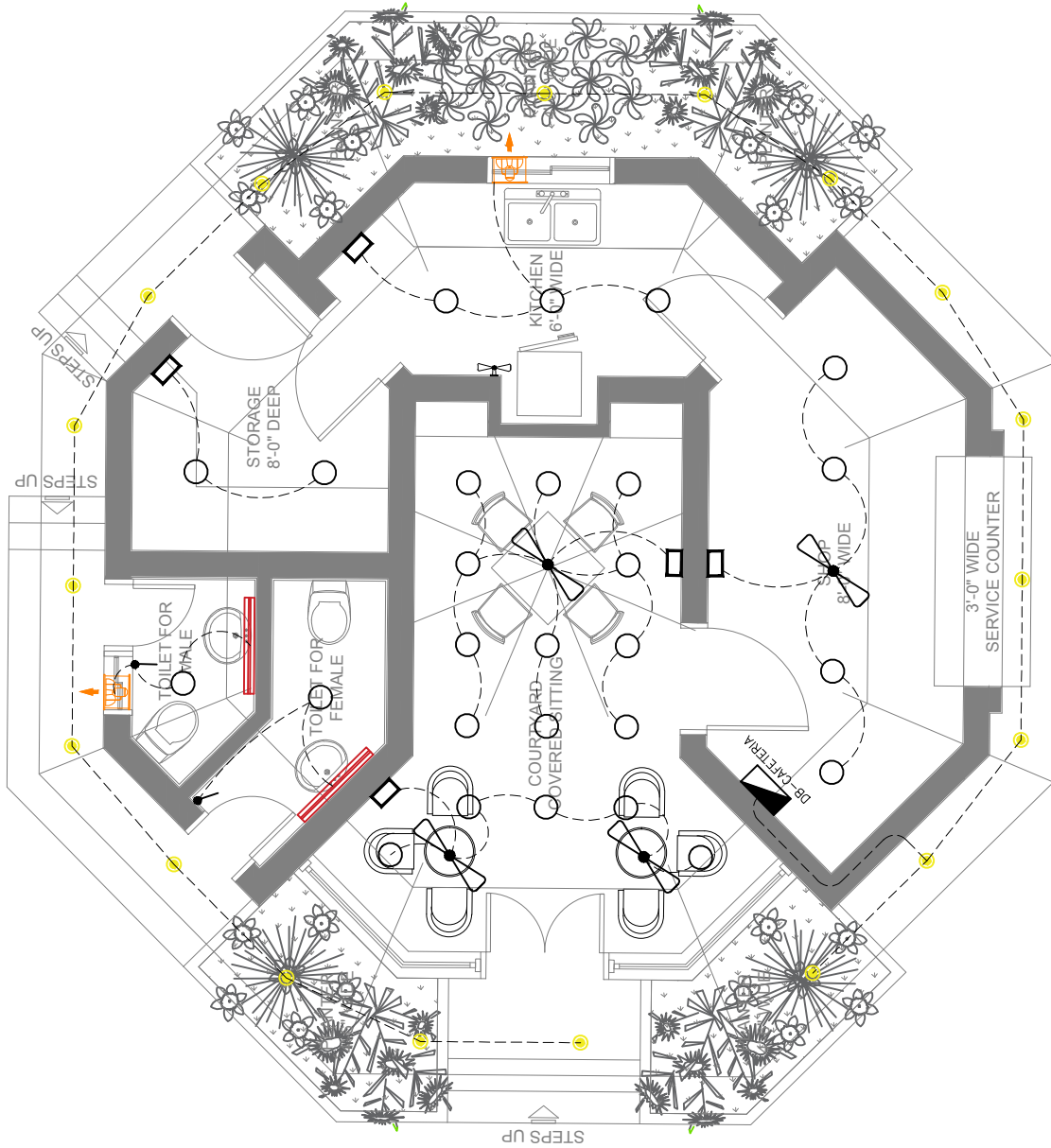
Drawing file path & name: \\server\Public\Noorain Nadeem\16_Cities\03_Initial\2_Altair Park\Typical Drawings for Jhelum\03Typ_Cf-AR-507 To A-507_Cafeteria Detail

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)	▬



Consultants
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Client

 GOVERNMENT OF PUNJAB

 Punjab Municipal Development
 Fund Company
 Department (PMDFC)

Financing Agency
 WORLD BANK
 Project
 Punjab Cities Program (PCP)

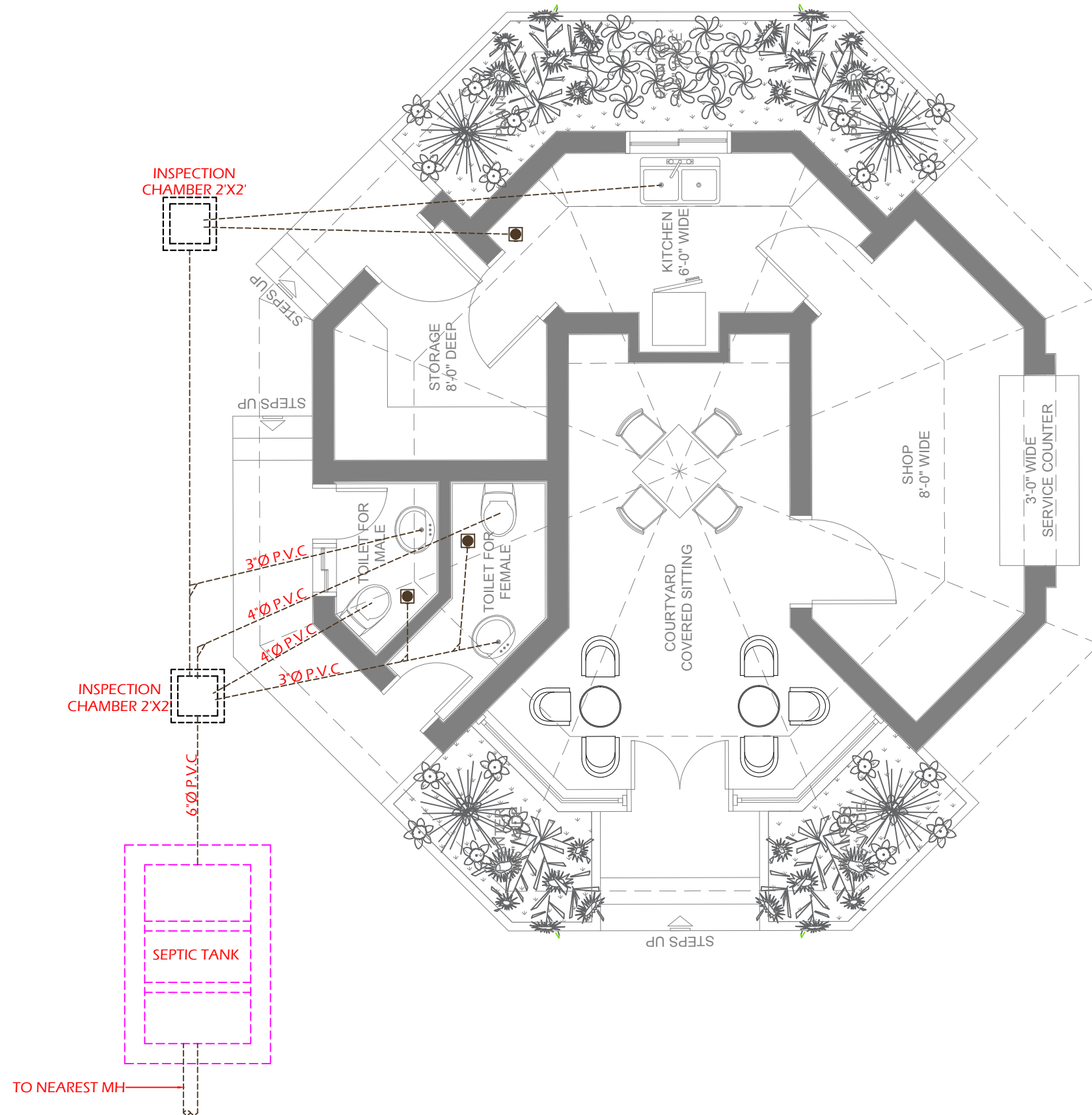
Rev.	Date	Description	Checked	Approved

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

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

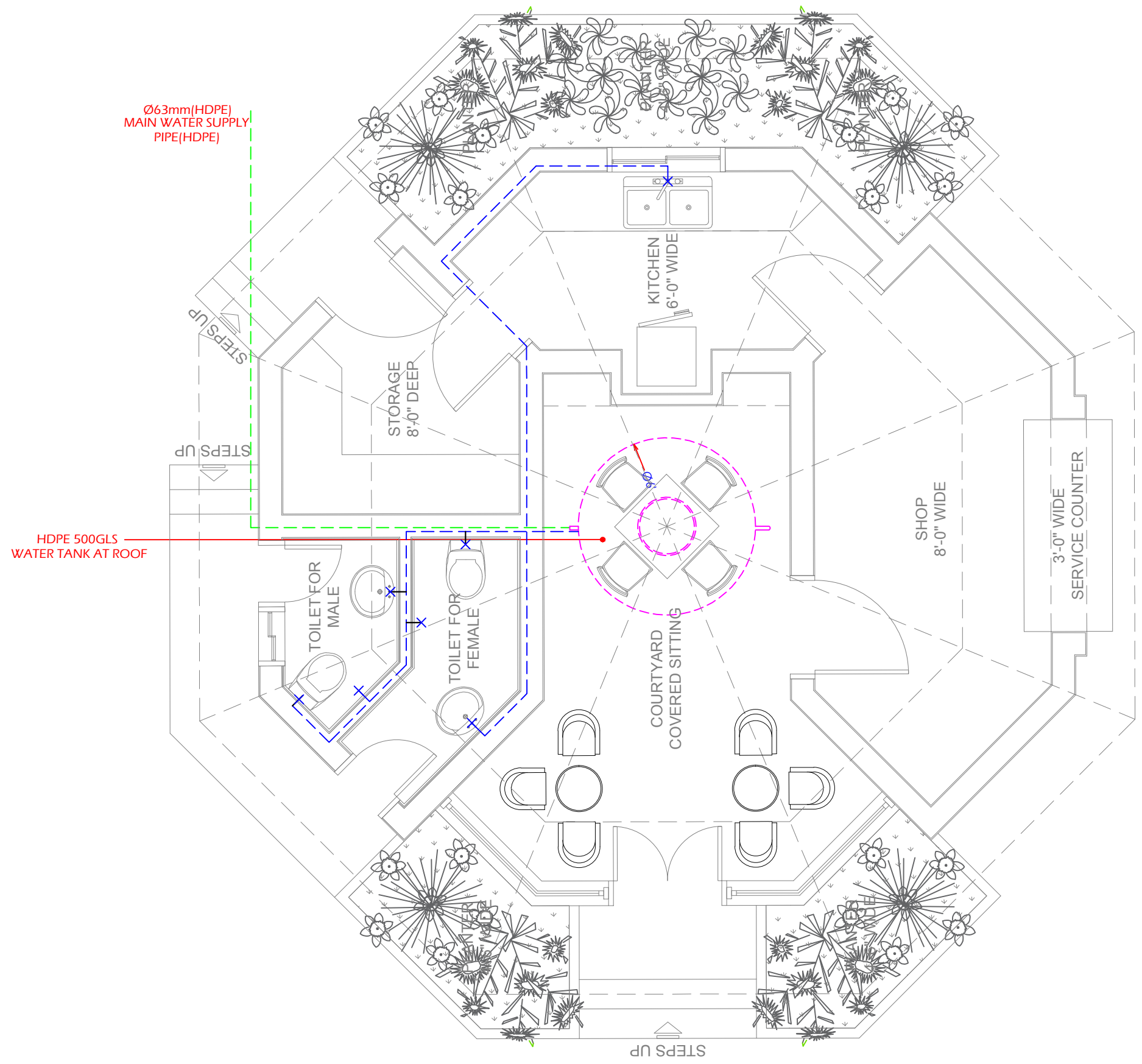
Drawing file path & name: \\server\Public\Noeem Malik\14_Cities\03_Theum\2_Altaj Park\Typical Electrical dwgs at Theum\WMP-1074P01-JHE-PARK-RH-TYP-CF-AR-551

LEGEND	
TYPE	DESCRIPTION
	SEWER PIPE (PVC)



Consultants 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 SEWERAGE LAYOUT PLAN. Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-601	Designed	MMP
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0

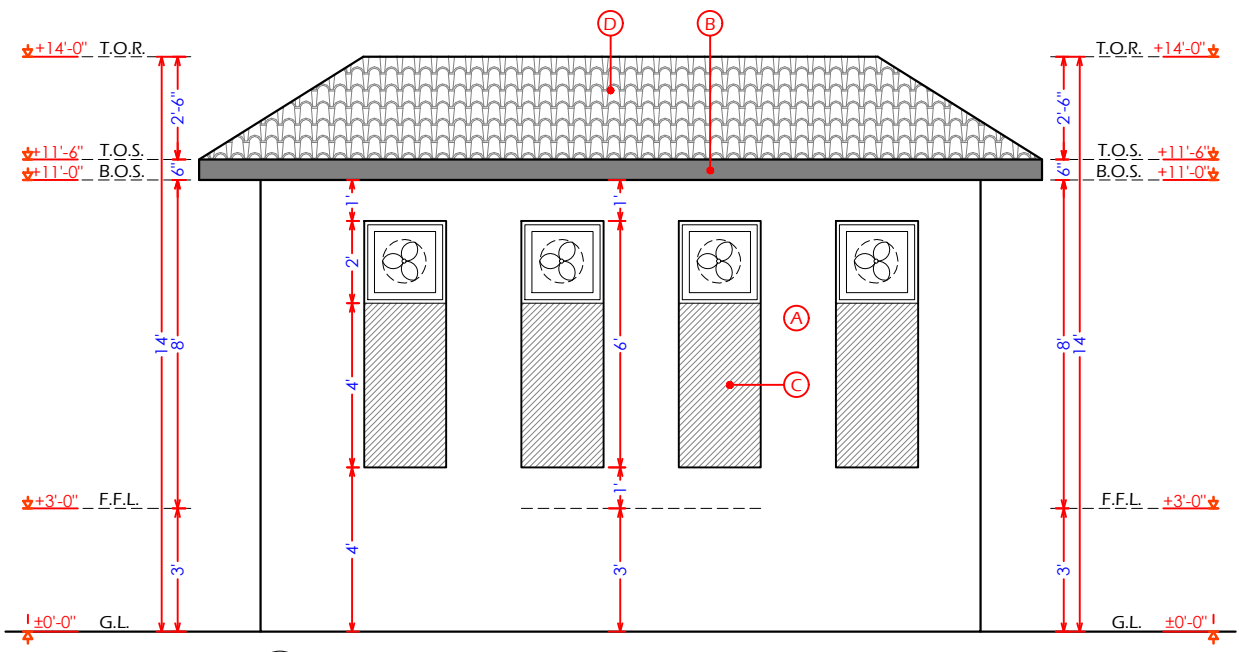
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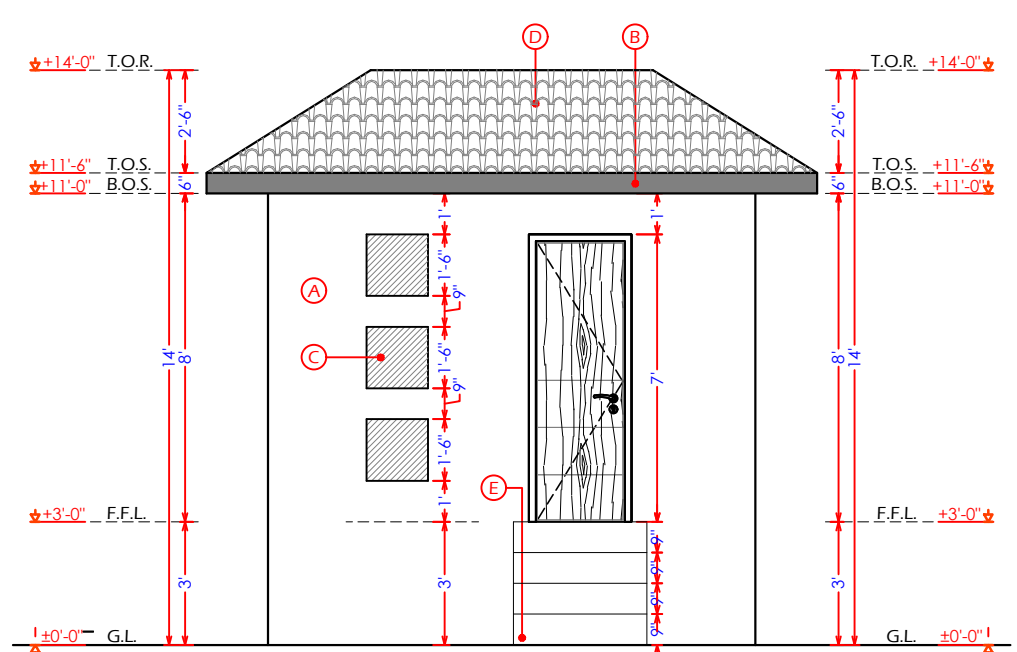
LEGEND	
TYPE	DESCRIPTION
	MAIN WATER SUPPLY PIPE (HDPE)
	WATER PIPE (HDPE)

Drawing file path & name: \\server\Public\Noeem Nadeem\14\Ches\03_Helem\2_Altad Park\Typical Electrical dwgs at Helem\WMP-1074P01-JHE-PARK-RH-TYP-CF-AR-651

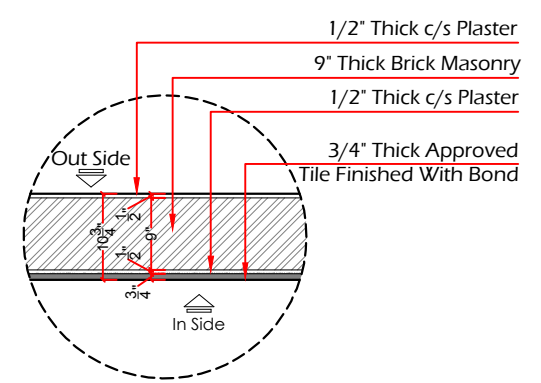
Consultants CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	Client GOVERNMENT OF PUNJAB Punjab Municipal Development Fund Company Department (PMDFC)	Financing Agency WORLD BANK Project Punjab Cities Program (PCP)	Rev.	Date	Description	Checked	Approved	Title WATER SUPPLY LAYOUT PLAN. Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-CF-AR-651	Designed	MMP
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0



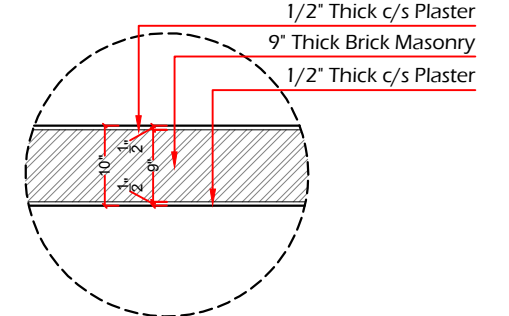
A ELEVATION E-1
A-501 Scale: 1"=4'-0"



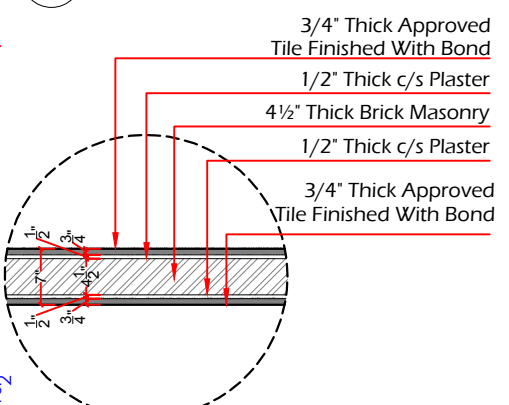
A ELEVATION E-2
A-501 Scale: 1"=4'-0"



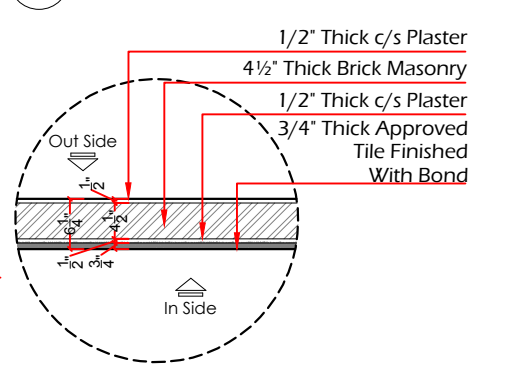
A 10 3/4" THICK WALL DETAIL
A-501 Scale: 1"=2'-0"



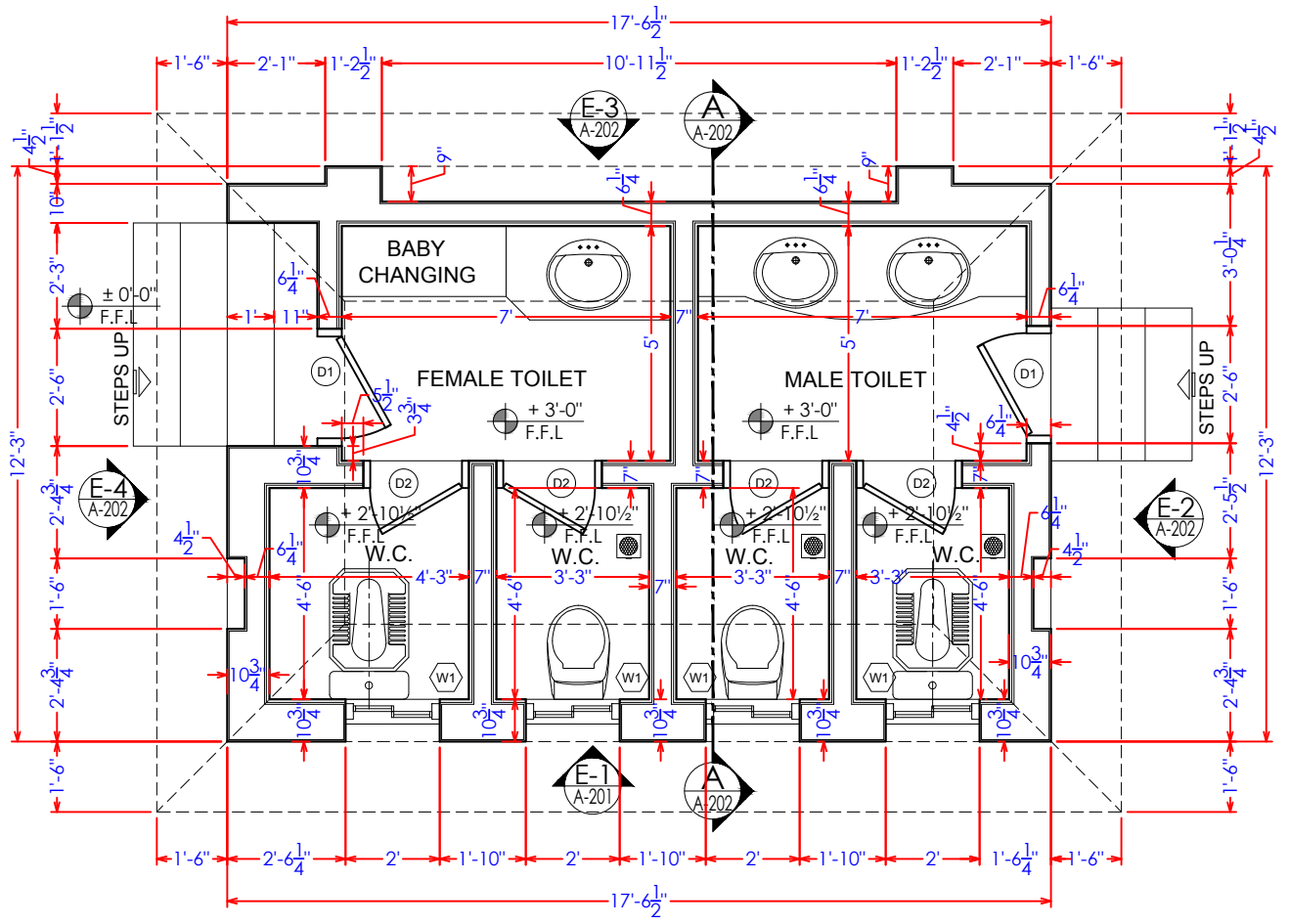
A 10" THICK WALL DETAIL
A-501 Scale: 1"=2'-0"



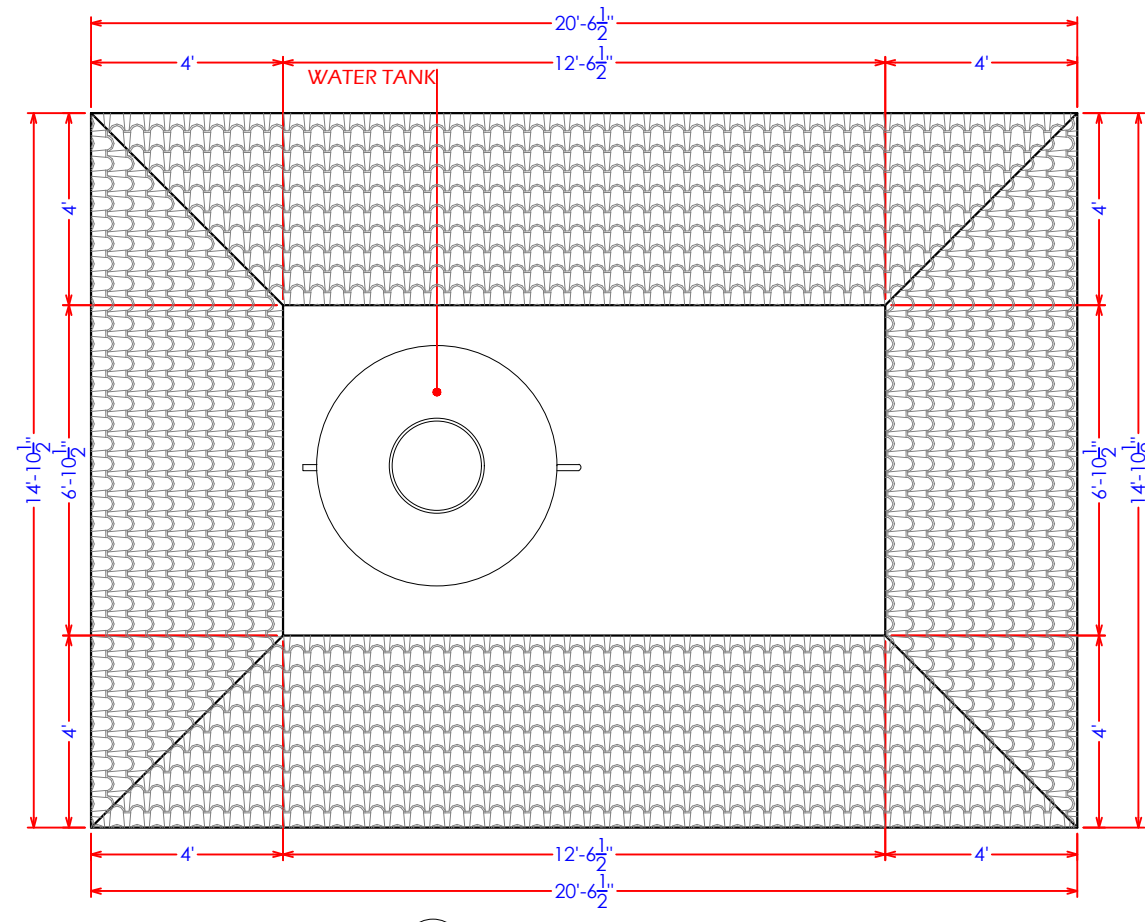
A 7" THICK WALL DETAIL
A-501 Scale: 1"=2'-0"



A 6 1/4" THICK WALL DETAIL
A-501 Scale: 1"=2'-0"



A PUBLIC TOILET PLAN
A-501 Scale: 1"=4'-0"



A PUBLIC TOILET TOP PLAN
A-501 Scale: 1"=4'-0"

Consultants

MMP

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2nd Floor, CTI Building,
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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

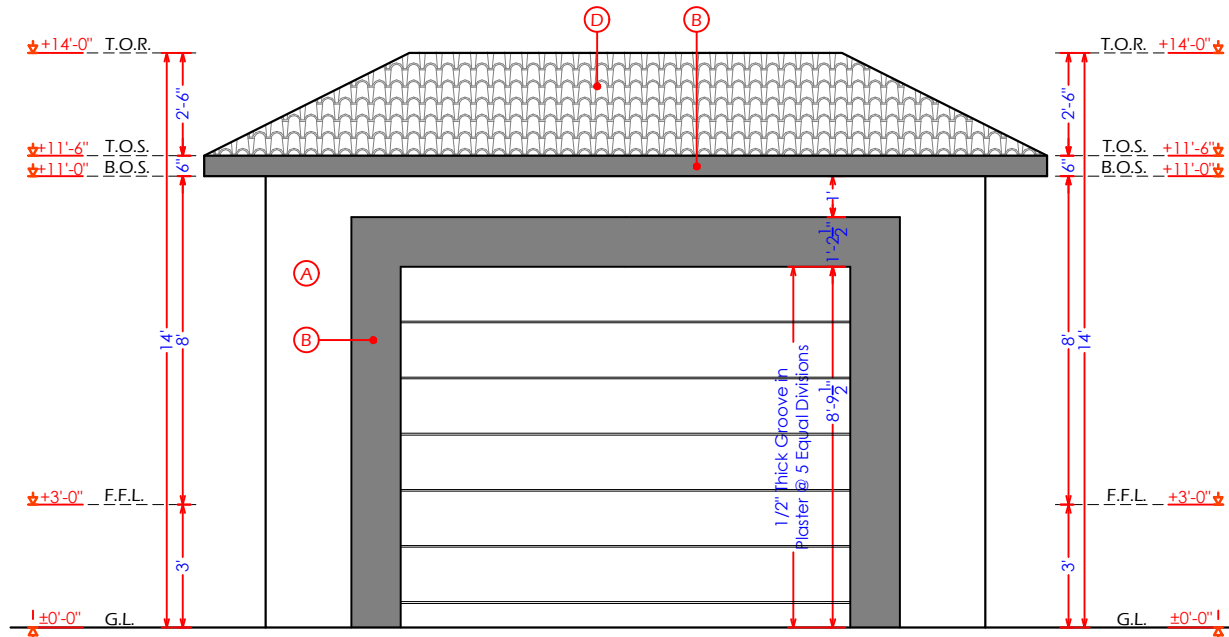
Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved	Title

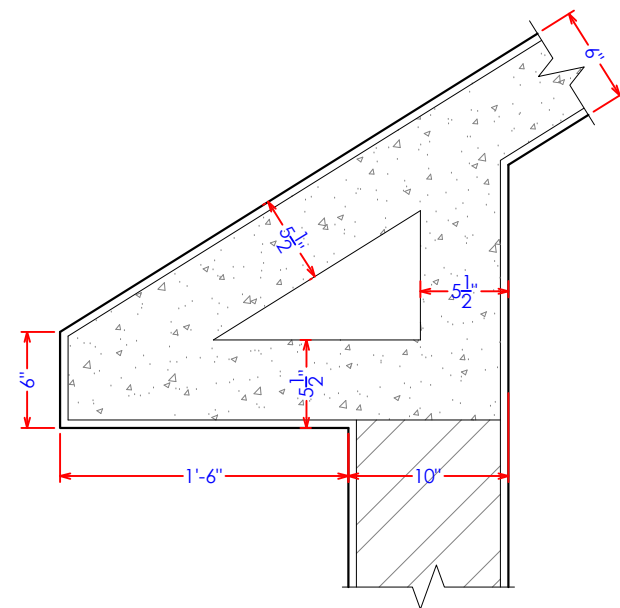
**MALE & FEMALE TOILET
DETAIL-01**

Drawing No.
MMP-1074P01-JEH-PARK-RH-TYP-MFT-AR-501

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

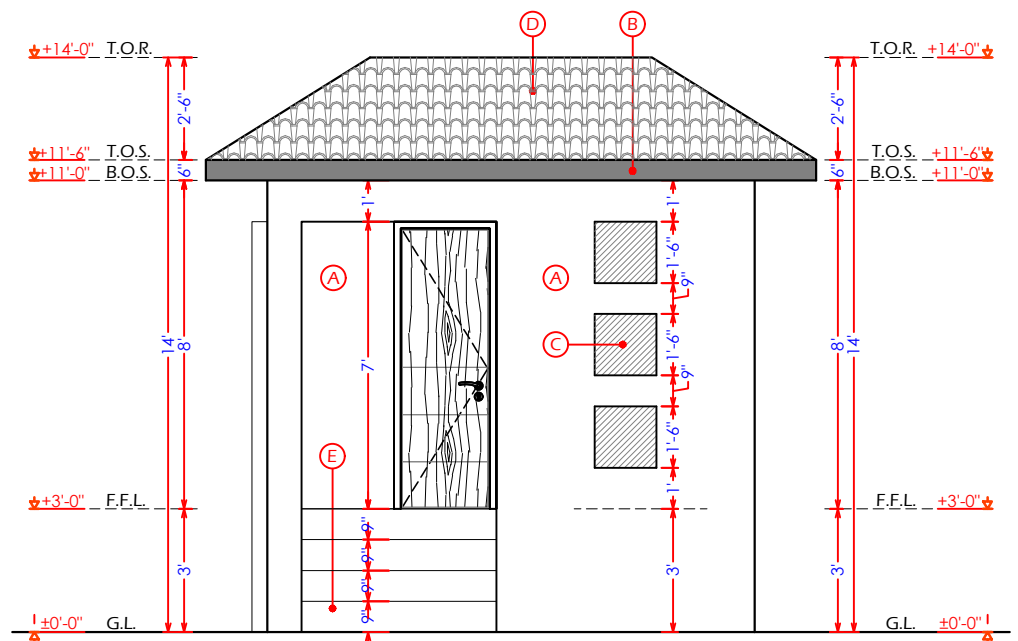


A ELEVATION E-3
A-502 Scale: 1"=4'-0"

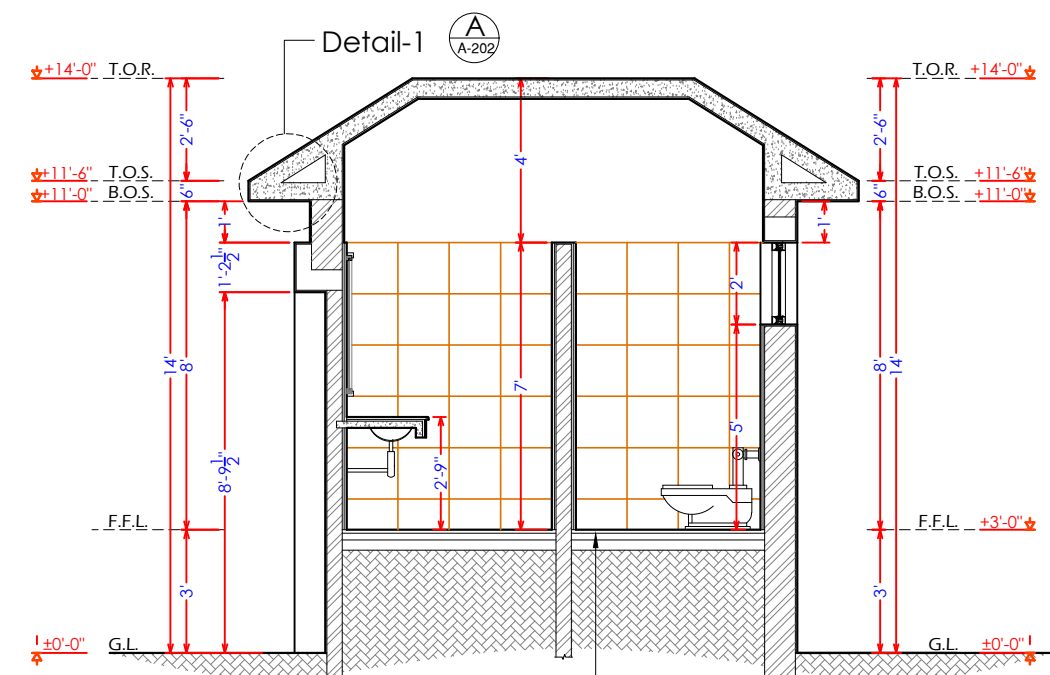


A BLOW-UP DETAIL-01
A-502 Scale: 1"=1'-0"

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"

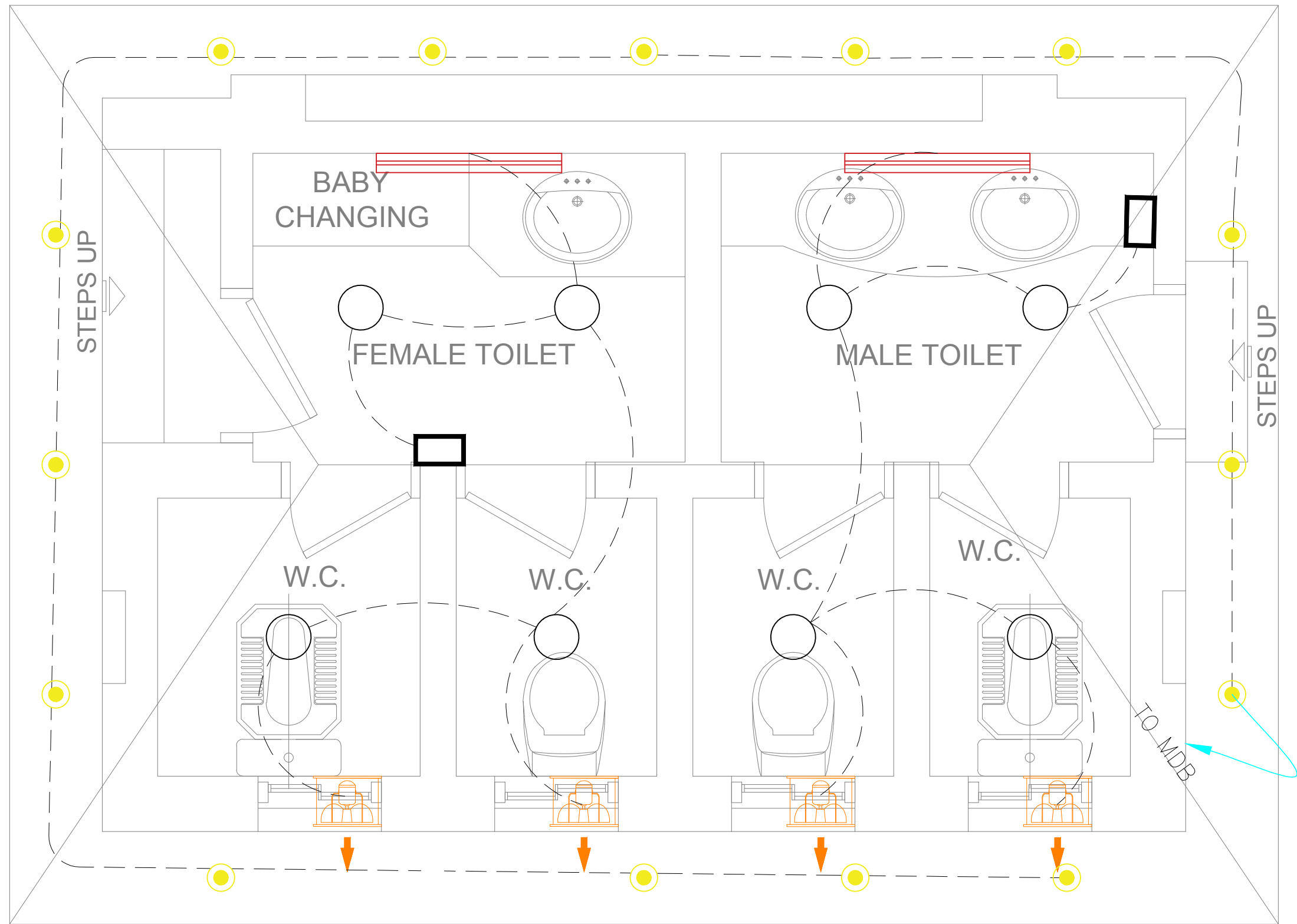


A SECTION AT A-A
A-502 Scale: 1"=4'-0"

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\Noorain Nadeem\14_Cities\03_Typical Drawings for Jhelum\03Typ_MFT-AR-501 To A-502 Toilet Detail For Male & Female

Consultants 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 MALE & FEMALE TOILET DETAIL-02 Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-502	Designed	MMP
										Drawn
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0



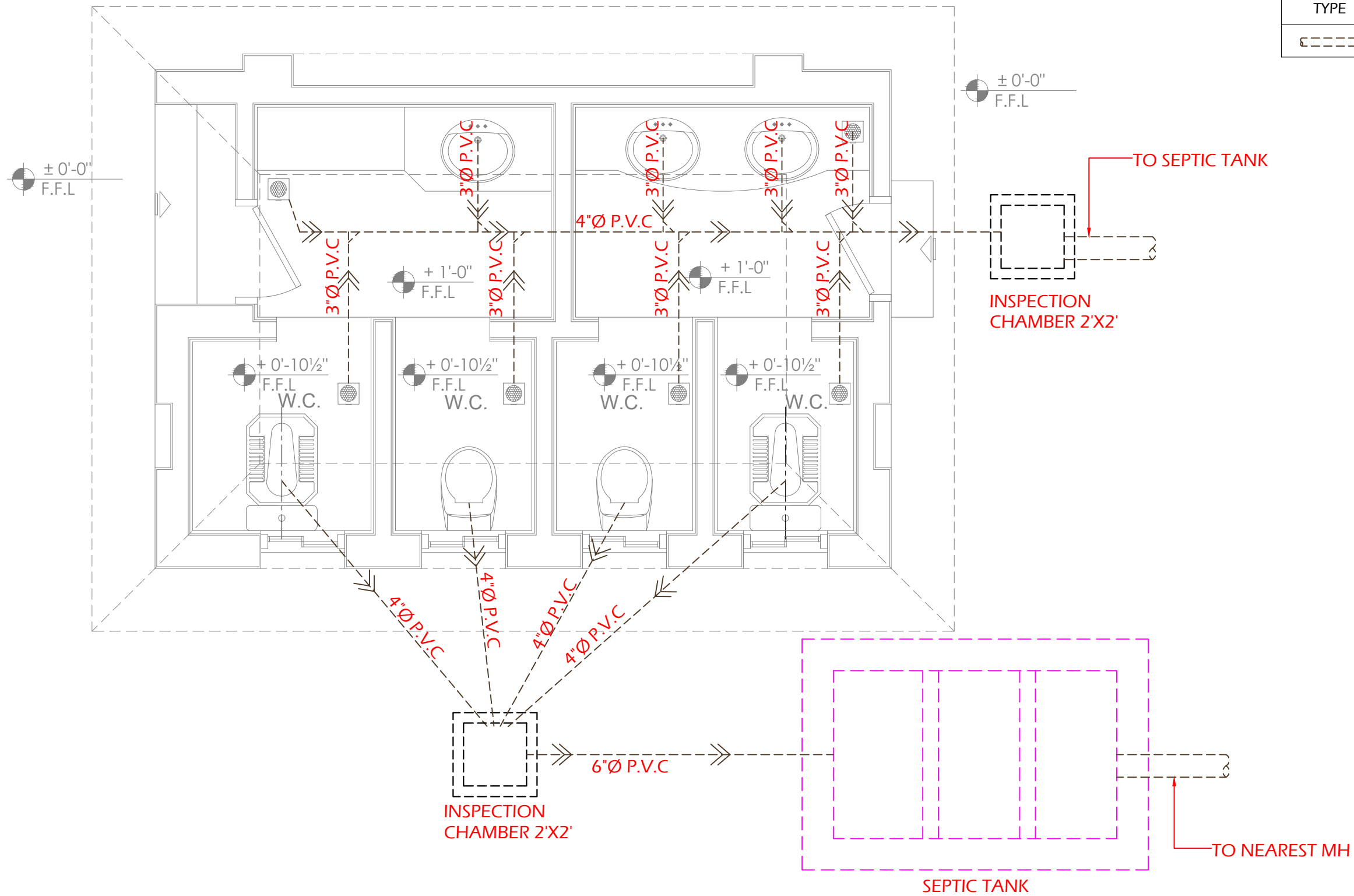
LEGEND
BATHROOM LIGHTING

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	□

Drawing file path & name: \\server\Public\Noeem Malik\14 Cileva\03_inlum\2_Altaj Park\Typical Electrical dwgs at Jhelum\MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-551



Consultants 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	146 ELECTRICAL LIGHTING LAYOUT PLAN Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-551	Designed	MMP
									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0

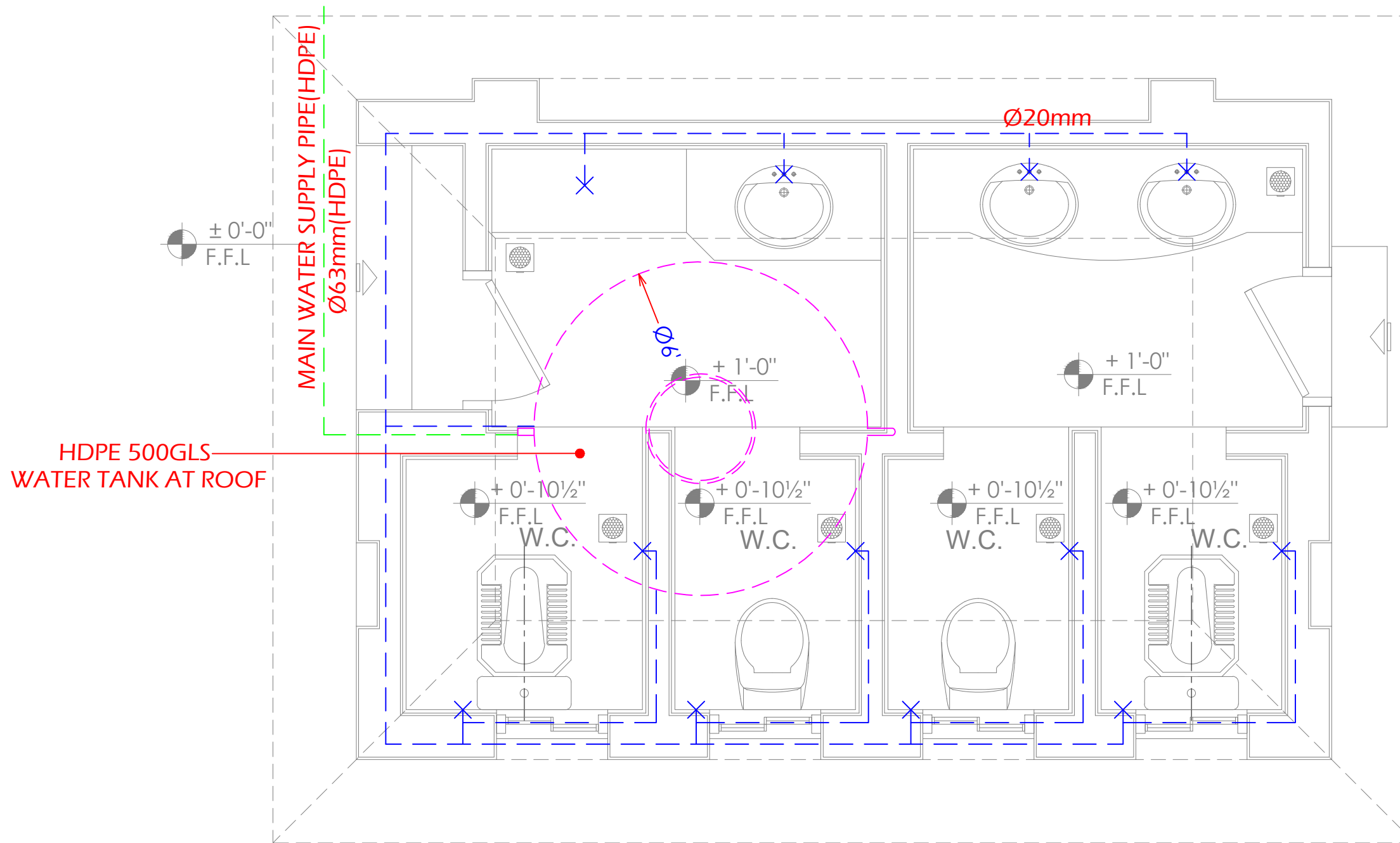
LEGEND	
TYPE	DESCRIPTION
	SEWER PIPE (PVC)



Drawing file path & name: \\server\Public\Noorim Nadeem\14_Cheh\03_Heh\m\2_Altad Park\Typical Electrical dwgs at theum\WMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-601

Consultants CENTRAL DESIGN CELL 2nd Floor, CT1 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 SEWERAGE LAYOUT PLAN. Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-MFT-AR-601	Designed	MMP
								Checked	MMP	
								Approved	PMDFC	
								Scale	As Shown	
								Rev No:	0	

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



± 0'-0"
F.F.L.

± 0'-0"
F.F.L.

HDPE 500GLS
WATER TANK AT ROOF

MAIN WATER SUPPLY PIPE (HDPE)
Ø63mm (HDPE)

Ø20mm




9'6"

+ 0'-10 1/2"
F.F.L.
W.C.

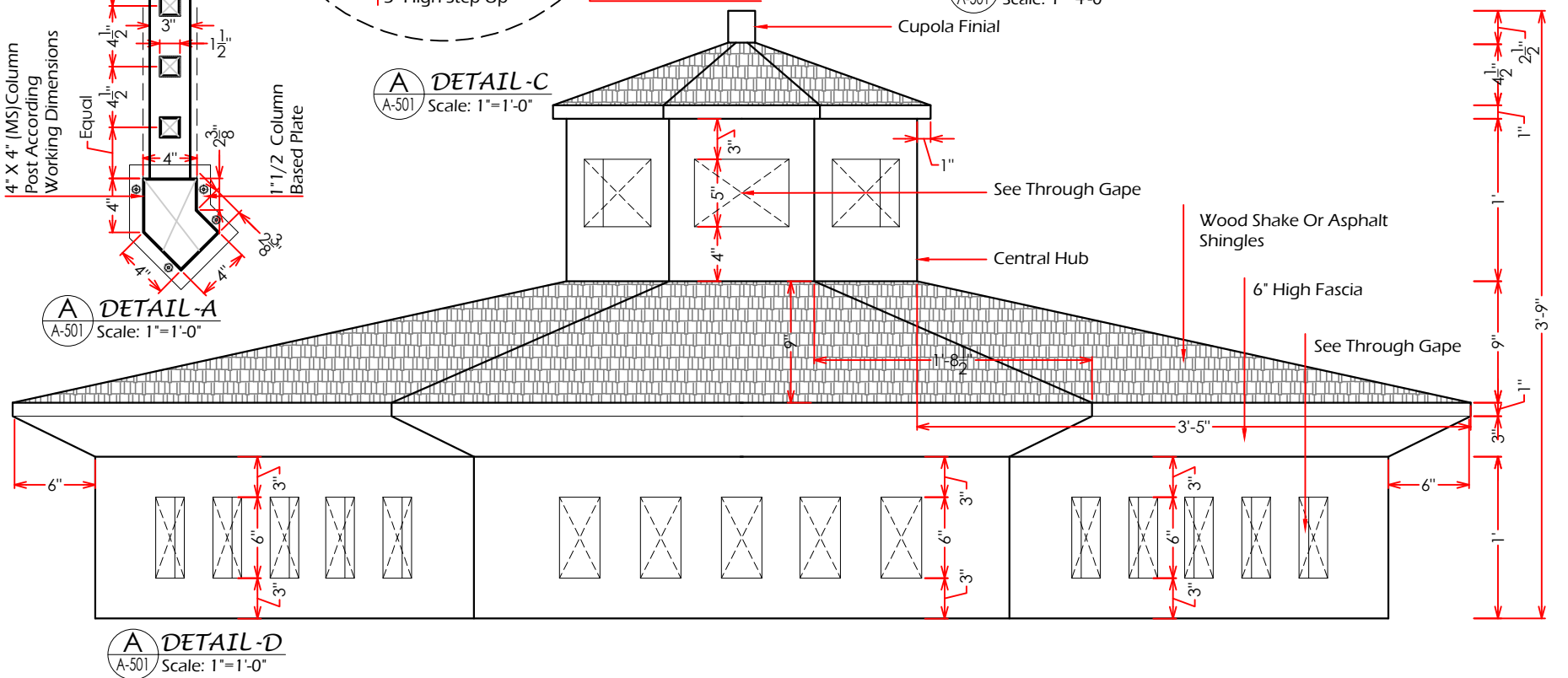
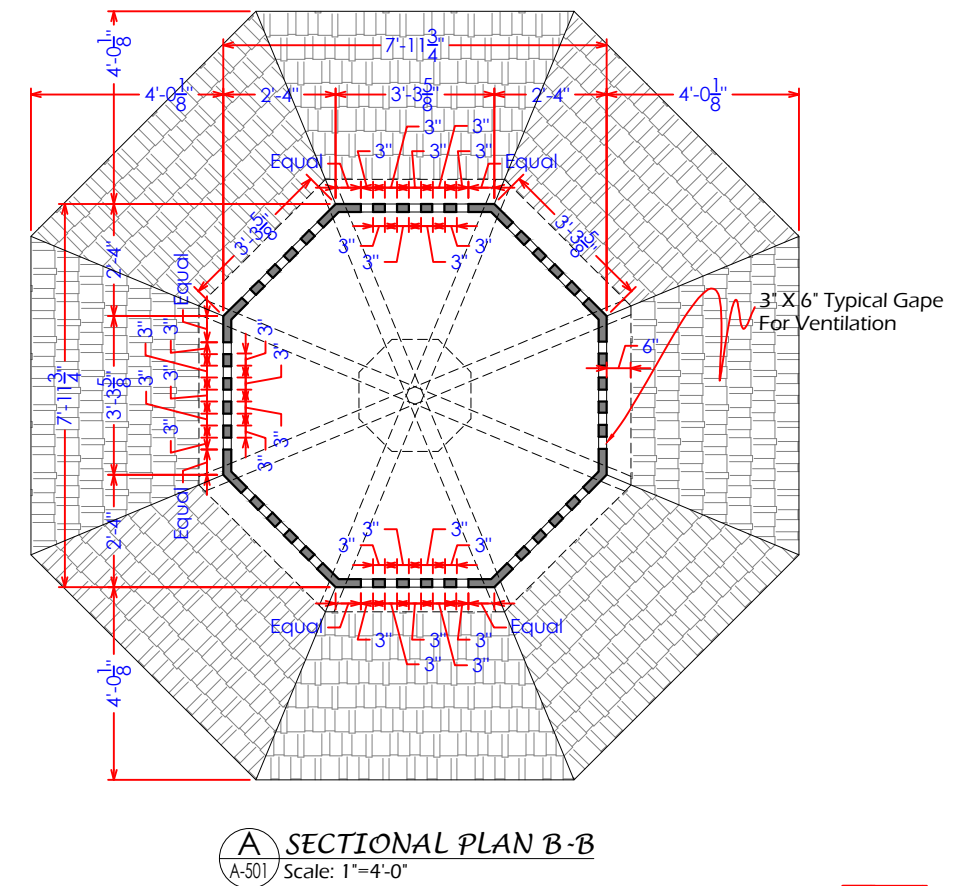
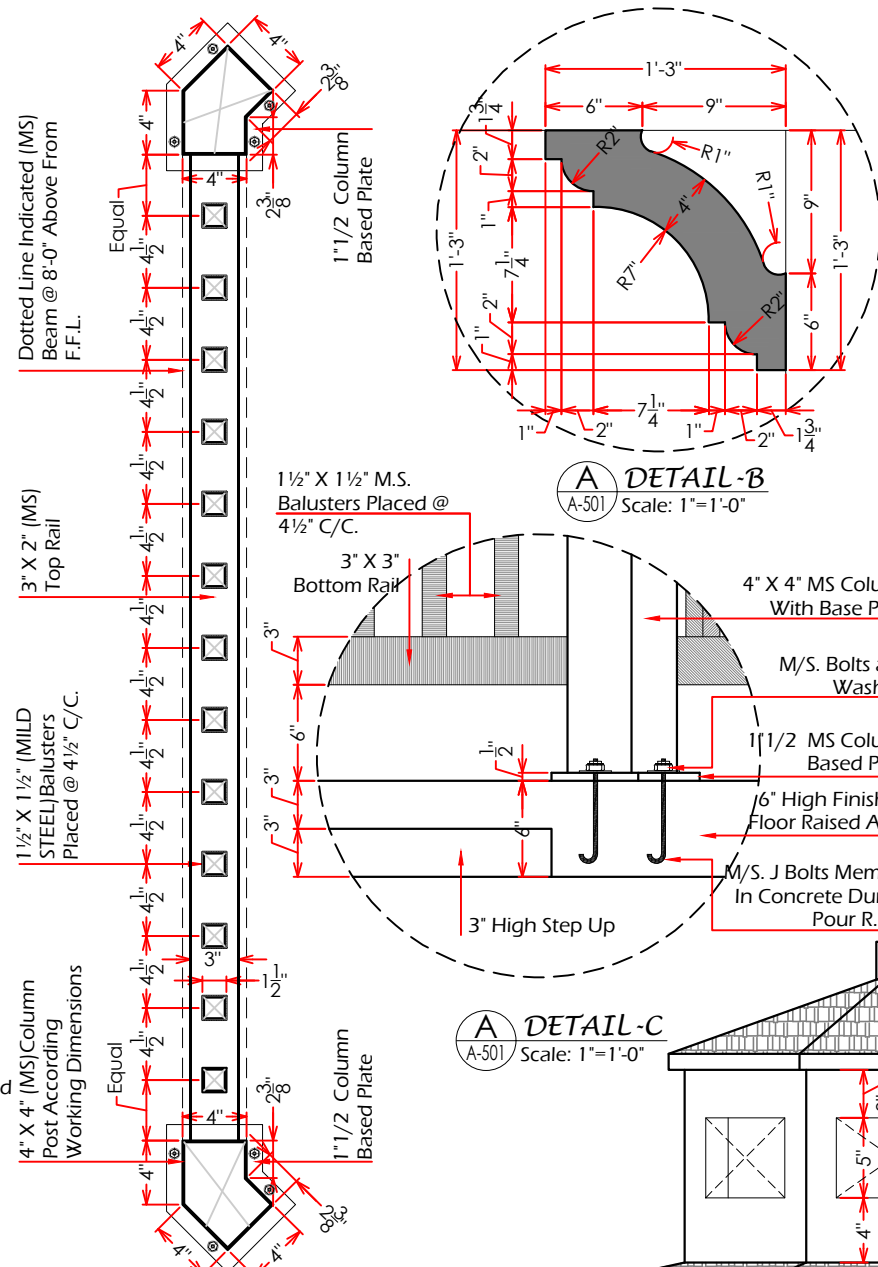
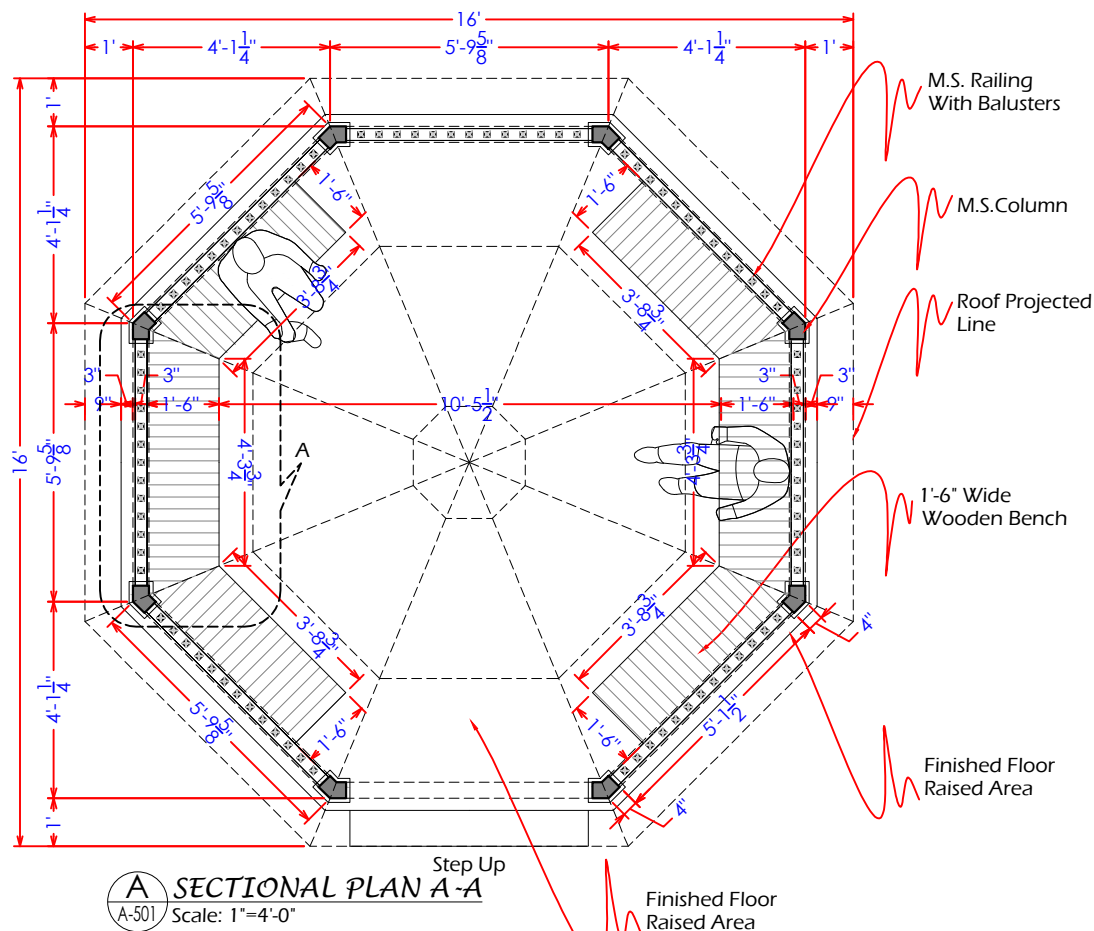
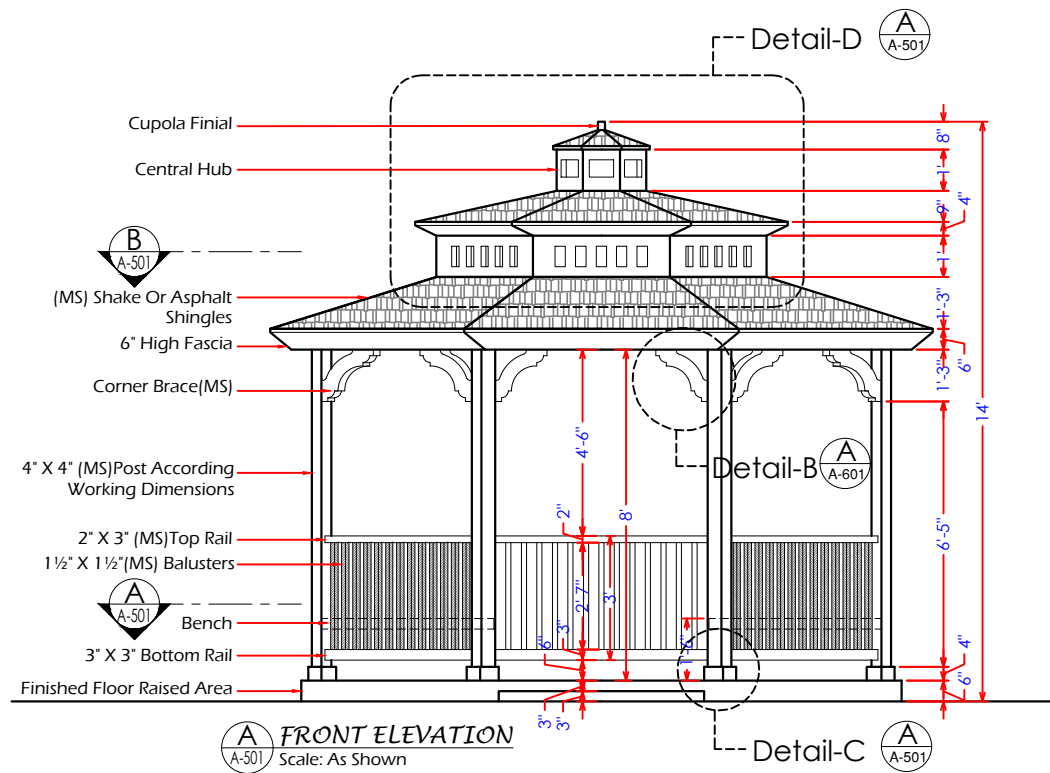
+ 0'-10 1/2"
F.F.L.
W.C.

+ 0'-10 1/2"
F.F.L.
W.C.

+ 0'-10 1/2"
F.F.L.
W.C.

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									Checked	MMP
									Approved	PMDFC
									Scale	As Shown
									Rev No:	0

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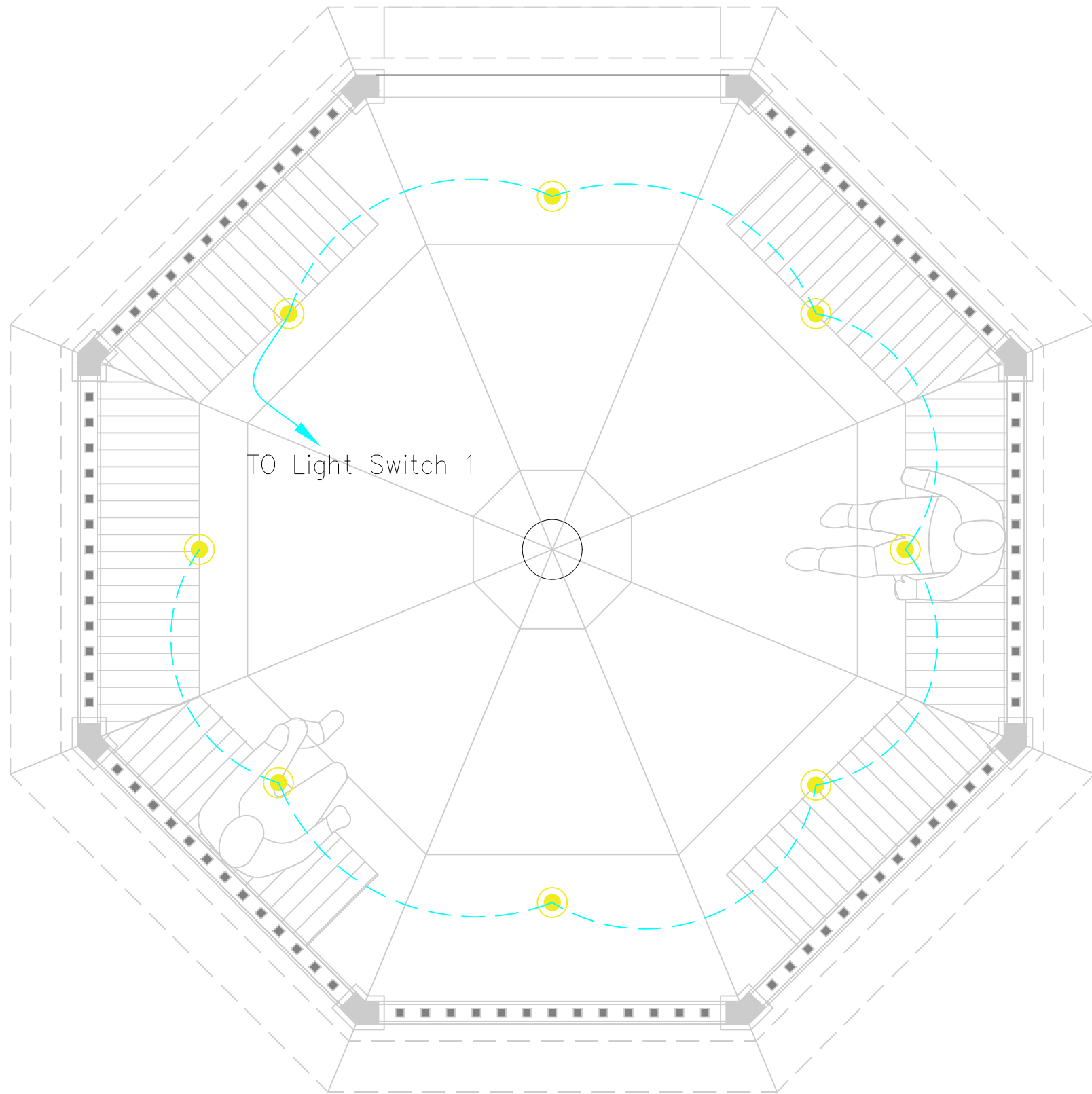
Financing Agency
WORLD BANK
Project
Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved	Title

GAZEBO DETAIL
Drawing No.
MMP-1074P01-JEH-PARK-RH-TYP-GB-AR-501



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

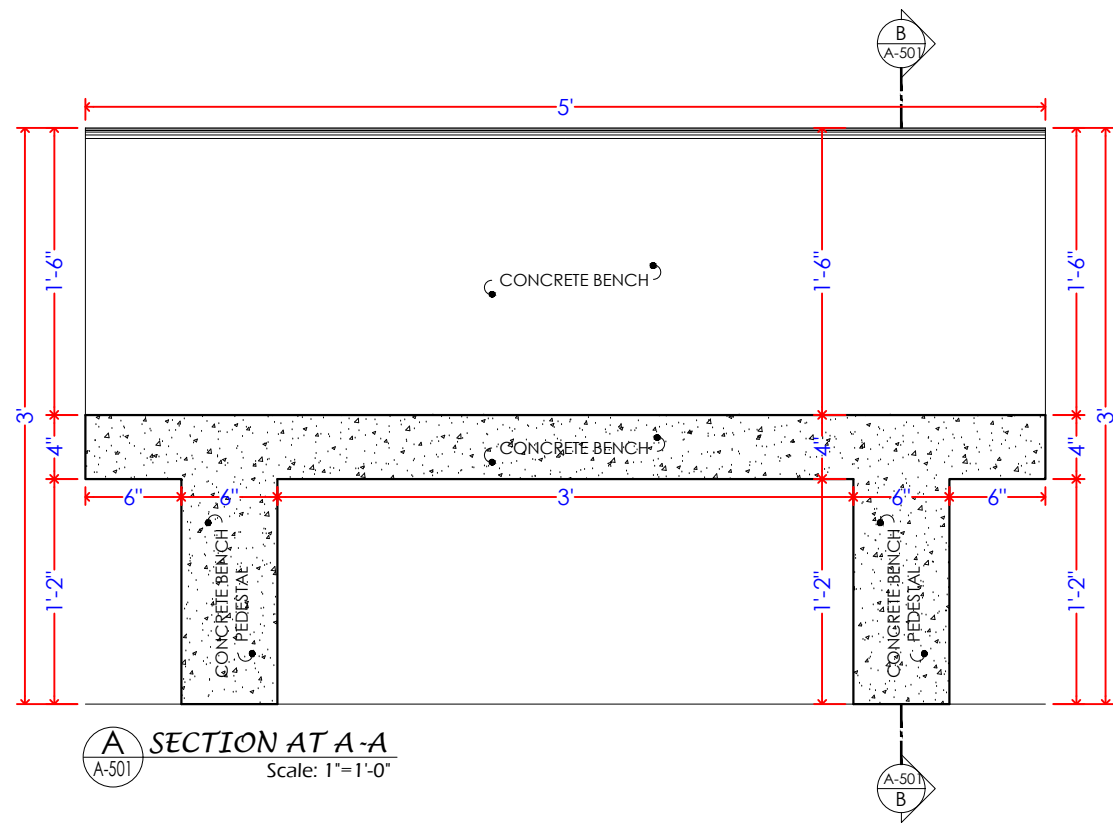
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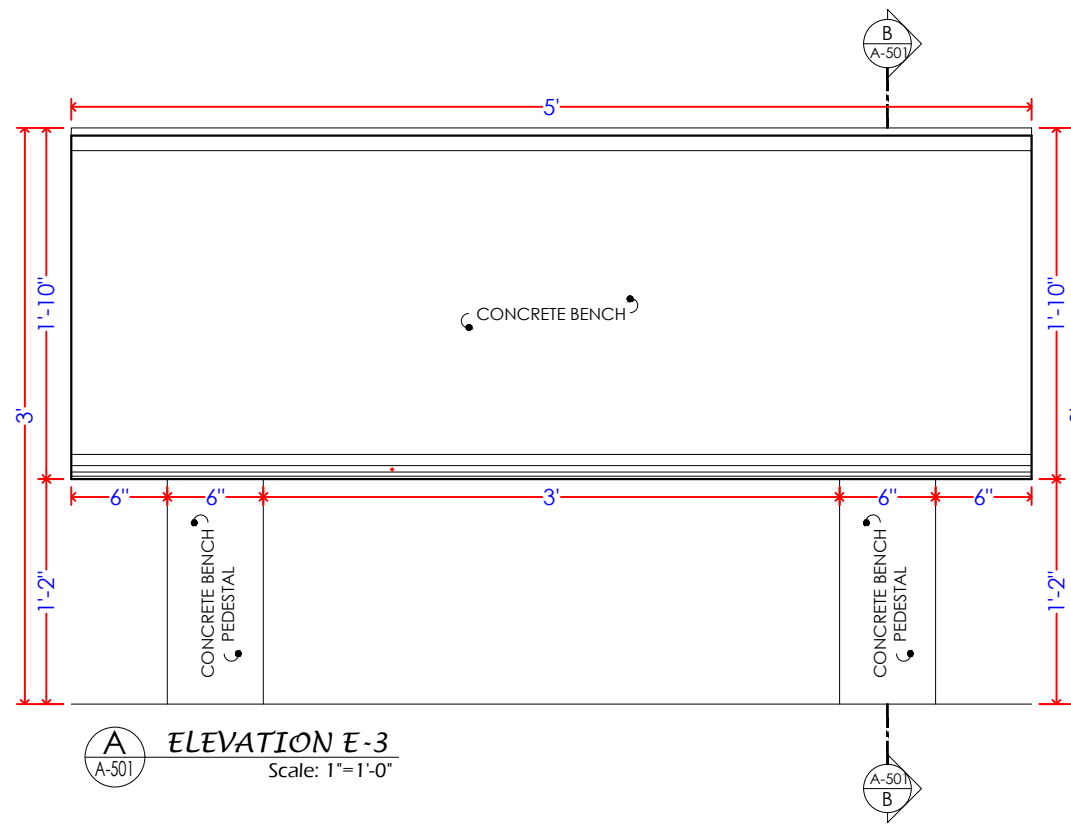
Sr/No	NAME	SYMBOL
01	10 w led DL (Recessed Type)	○
02	5 w led DL (Recessed Type)	●

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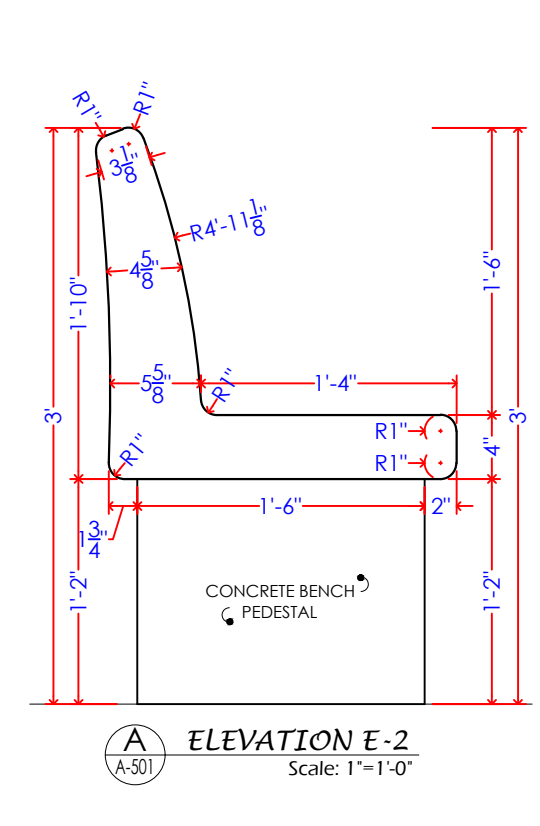
Consultants  CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292525-7 042-36292528 cdc.mmp@mmpakistan.com http://www.mmpakistan.com	Client GOVERNMENT OF PUNJAB  Punjab Municipal Development Fund Company Department (PMDFC)	Financing Agency WORLD BANK Project Punjab Cities Program (PCP)	Rev.	Date	Description	Checked	Approved	Title ELECTRICAL LIGHTING LAYOUT PLAN Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-GB-AR-551	Designed	MMP
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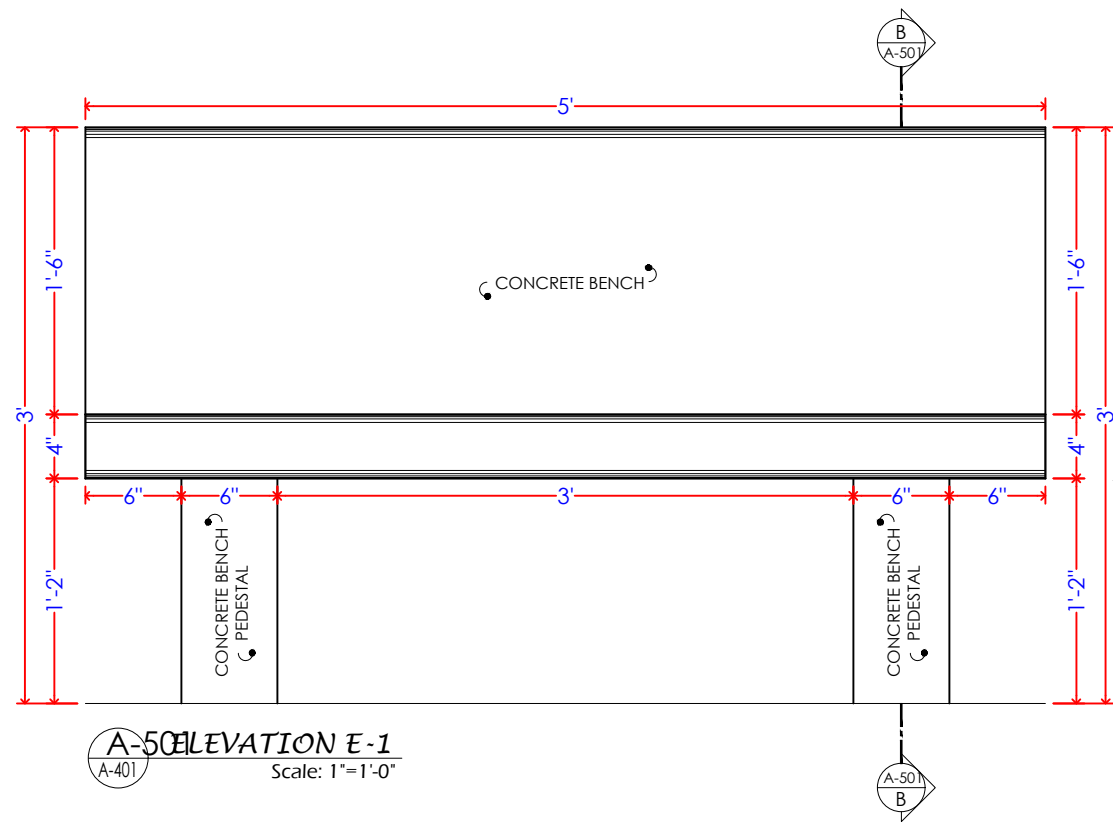
A-501 SECTION AT A-A
Scale: 1"=1'-0"



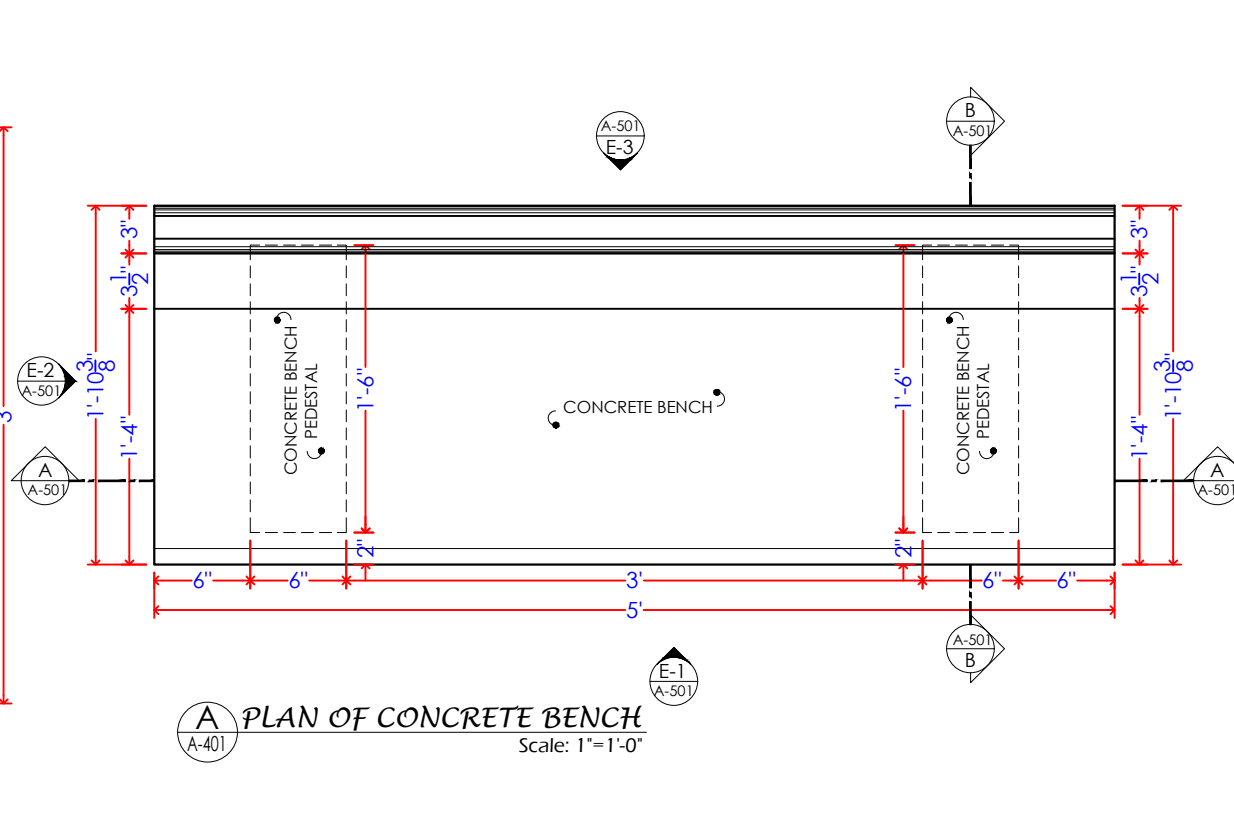
A-501 ELEVATION E-3
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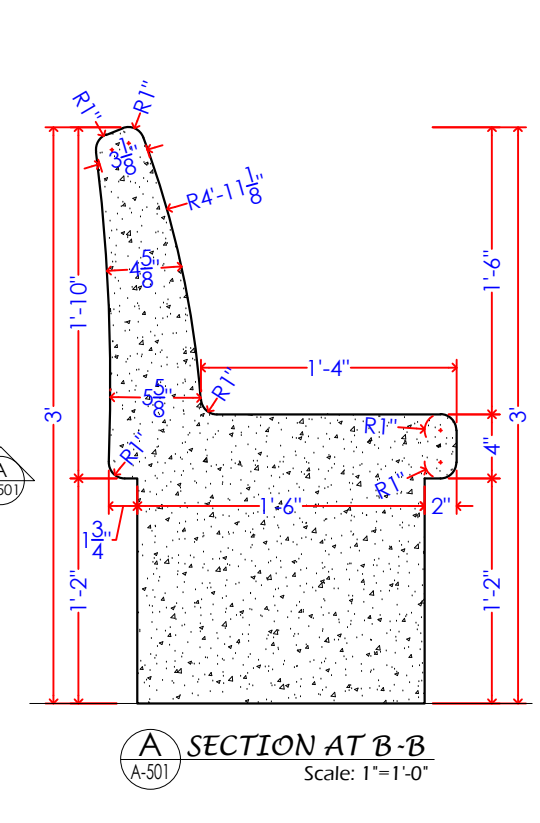
A-501 ELEVATION E-2
Scale: 1"=1'-0"



A-501 ELEVATION E-1
Scale: 1"=1'-0"



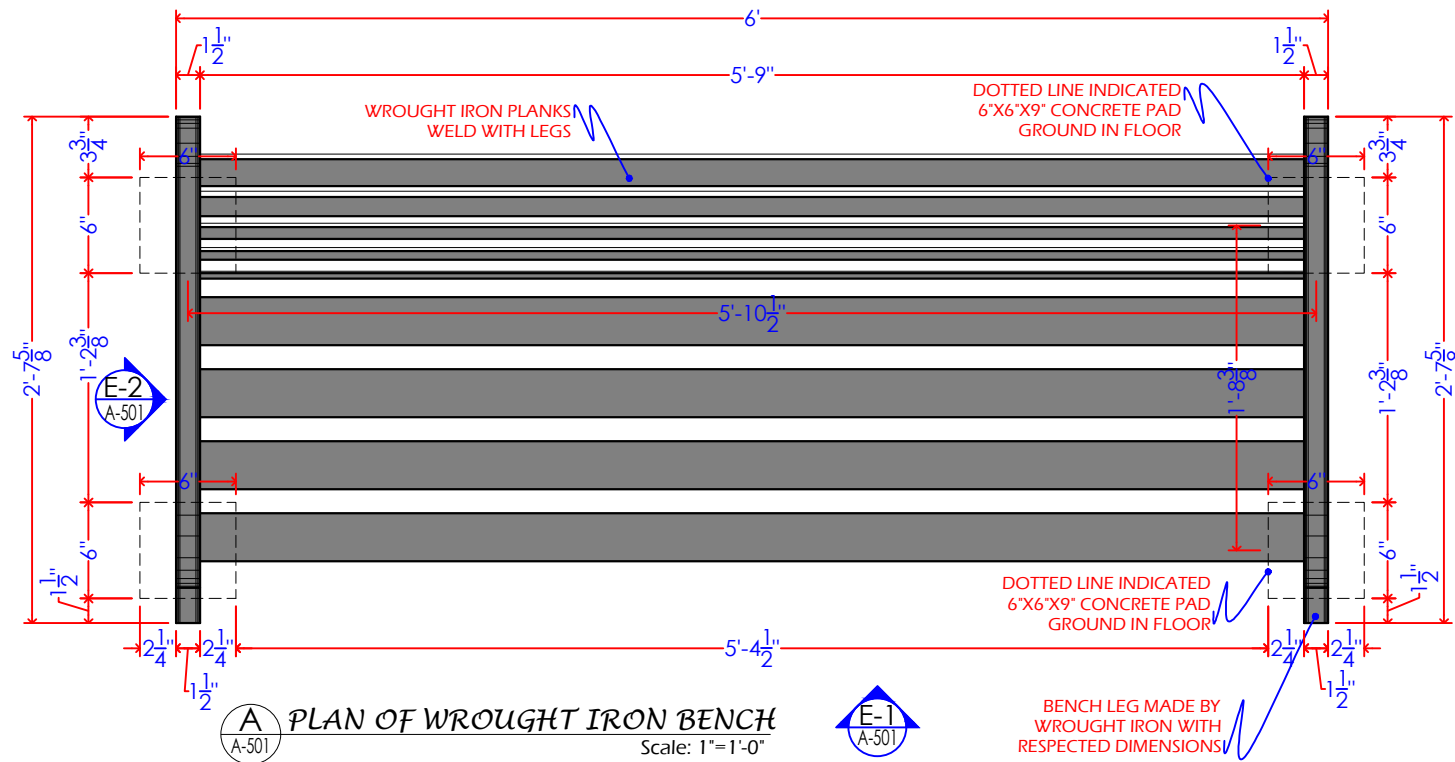
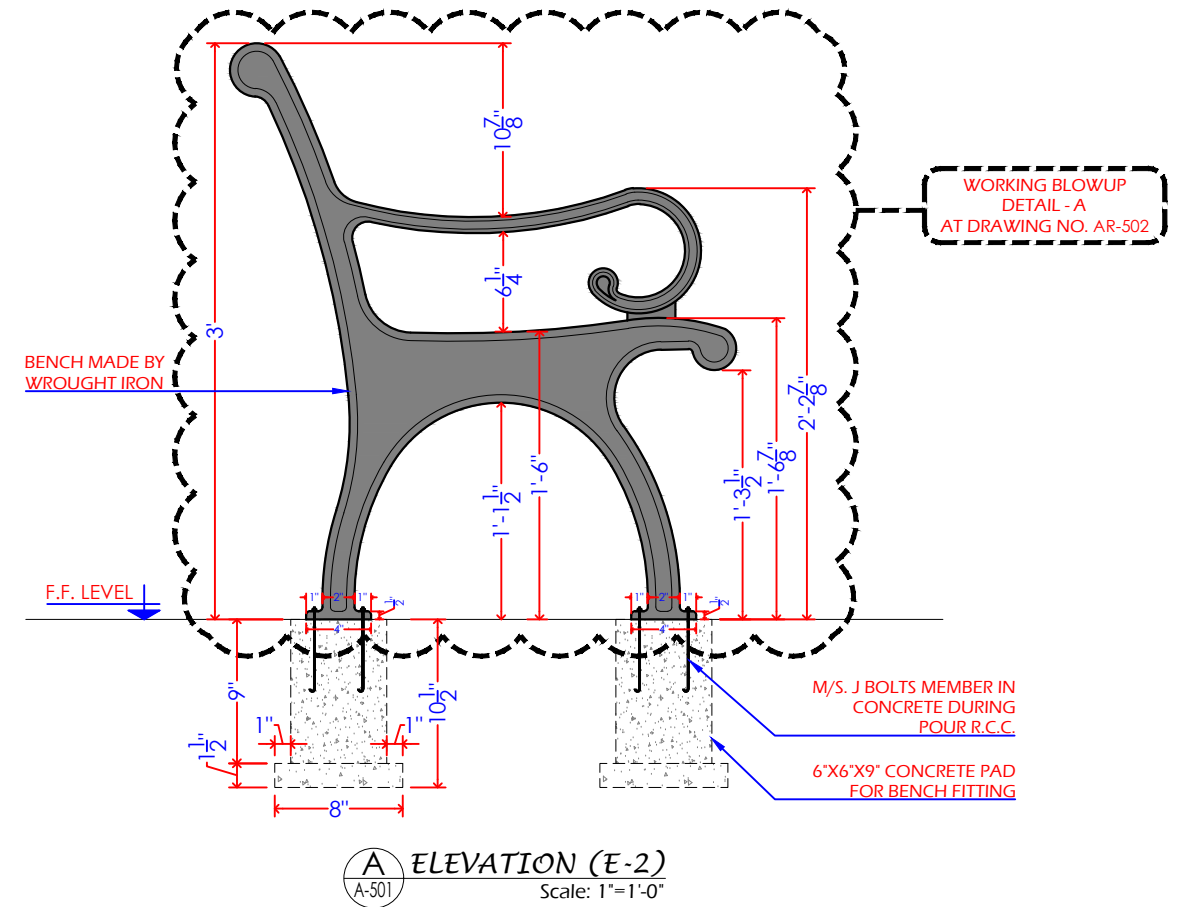
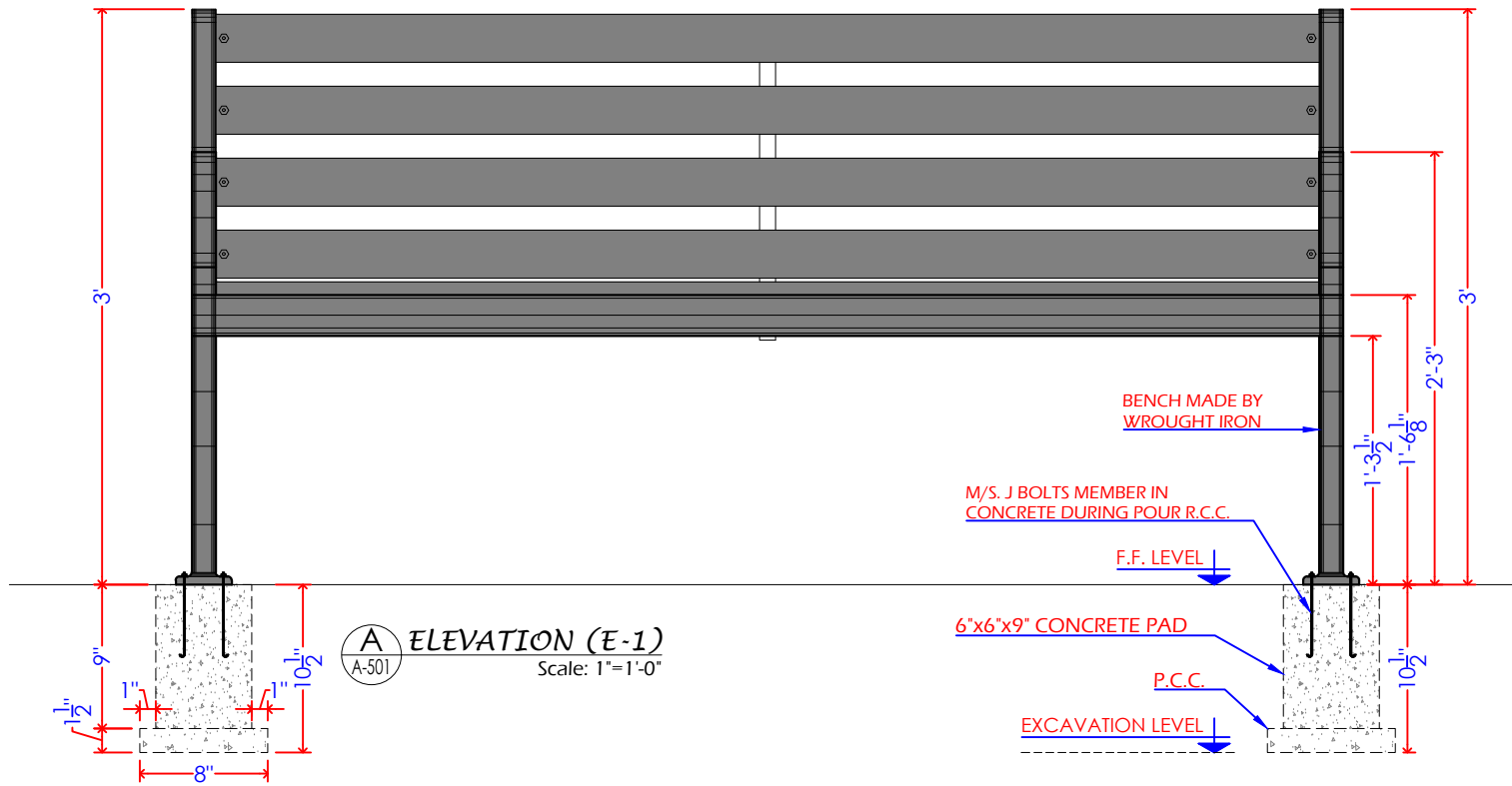
A-401 PLAN OF CONCRETE BENCH
Scale: 1"=1'-0"



A-501 SECTION AT B-B
Scale: 1"=1'-0"

Drawing file path & name: \\server\Public\Noseem Nadeem\2. Allard Park\Typical Drawings for Jhelum\VTyp_CB-AR-501 Concrete Bench (Type-A)

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									Checked	MMP
									Approved	PMDFC
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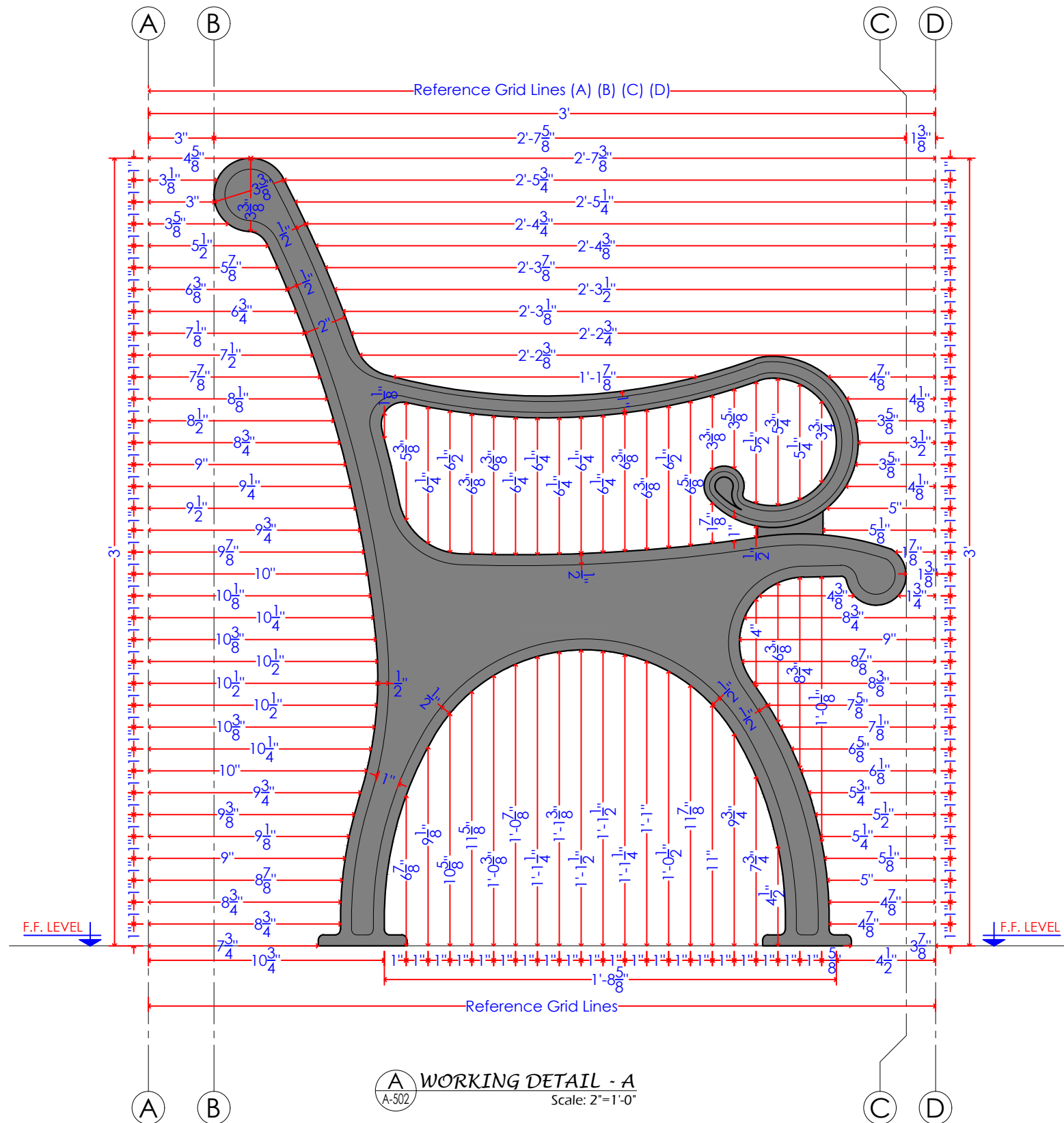
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**WROUGHT IRON BENCH (TYPE-B)
DETAIL-01**

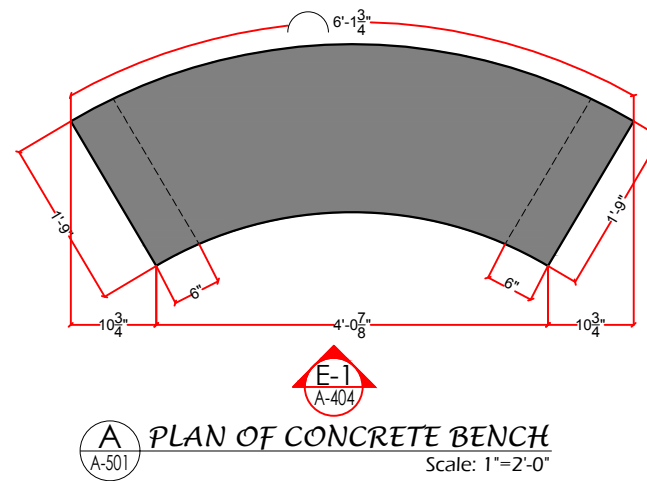
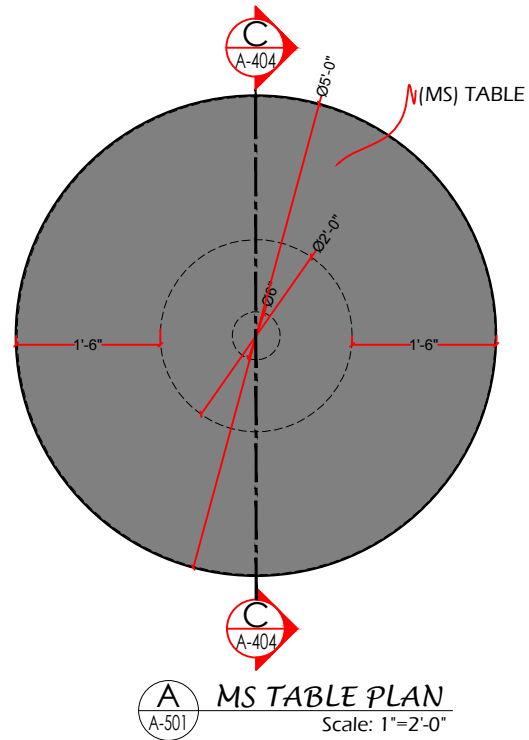
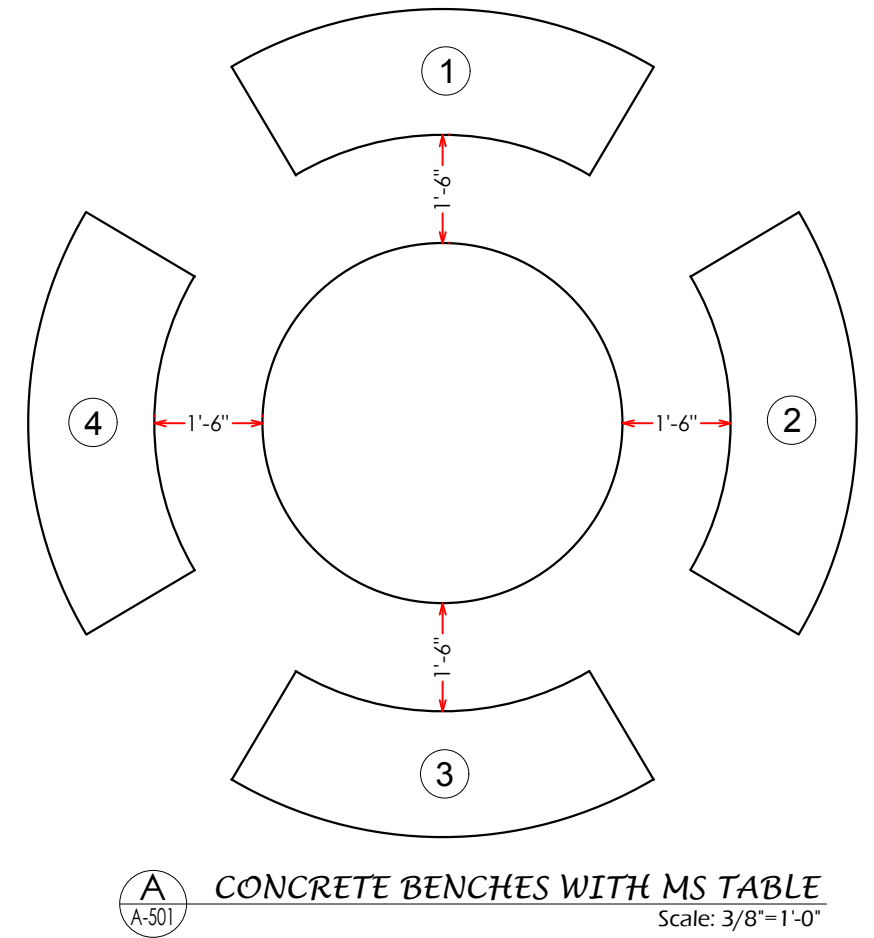
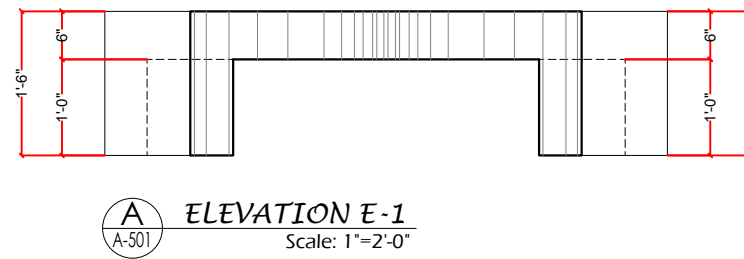
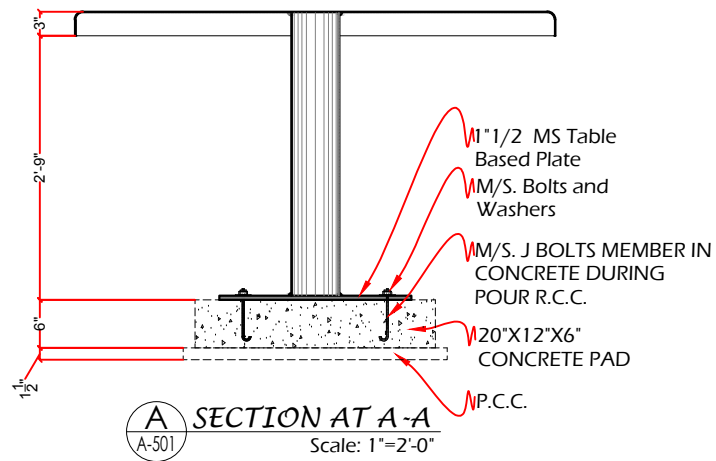
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MMP-1074P01-JHE-PARK-TYP-RH-WIB-AR-501

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



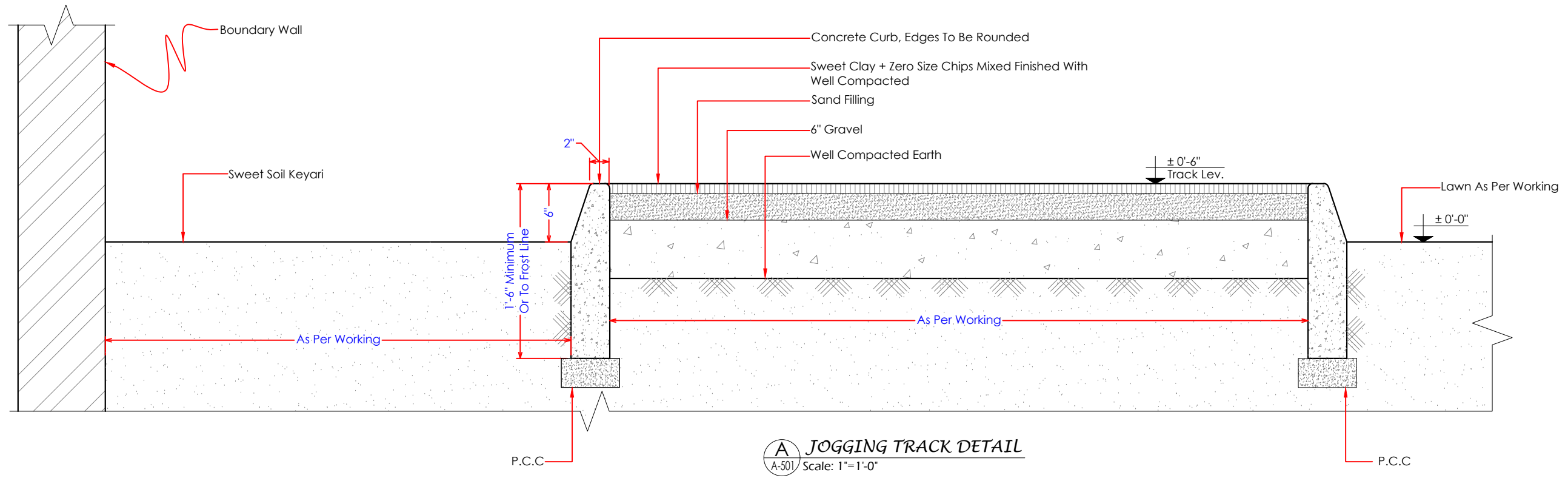
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		Project Punjab Cities Program (PCP)	Checked MMP	Approved PMDFC	Scale As Shown	Rev No: 0			

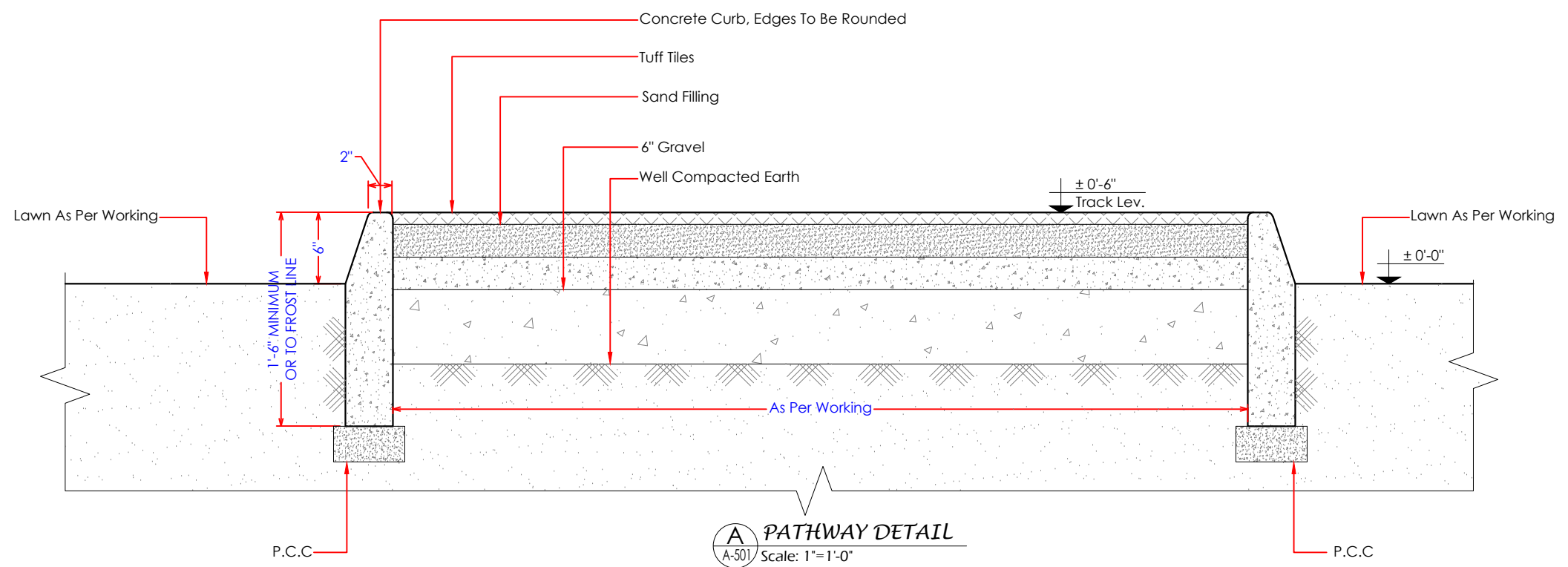


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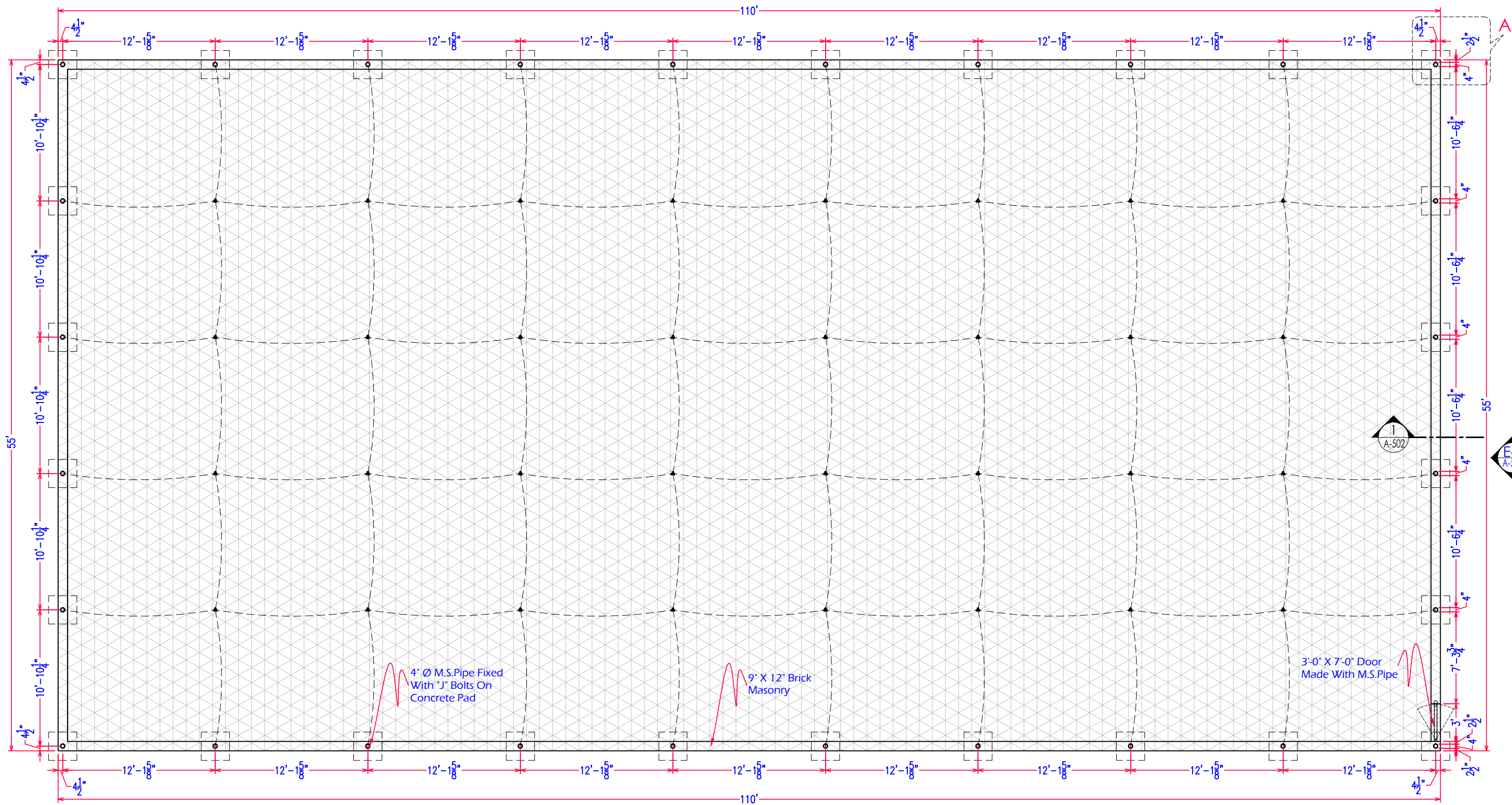
A JOGGING TRACK DETAIL
A-501 Scale: 1"=1'-0"



A PATHWAY DETAIL
A-501 Scale: 1"=1'-0"

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										Drawn Checked Approved Scale
								Rev No:	0	



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



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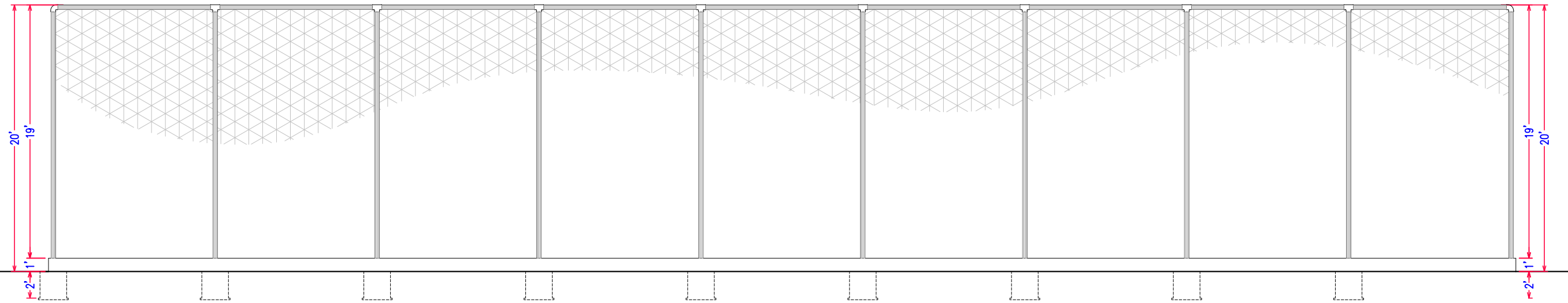
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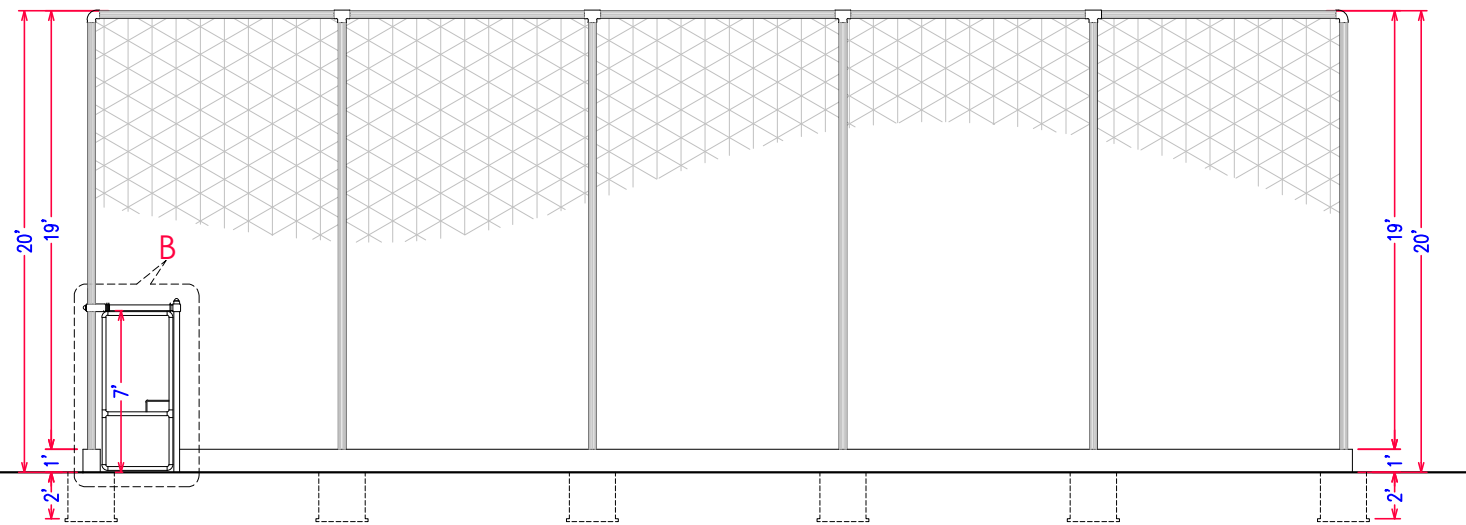
Rev.	Date	Description	Checked	Approved

Title
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Drawing No.
MMP-1074P01-JHE-PARK-TYP-NCK-AR-501

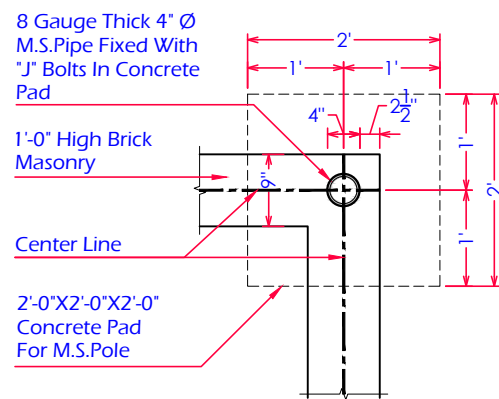
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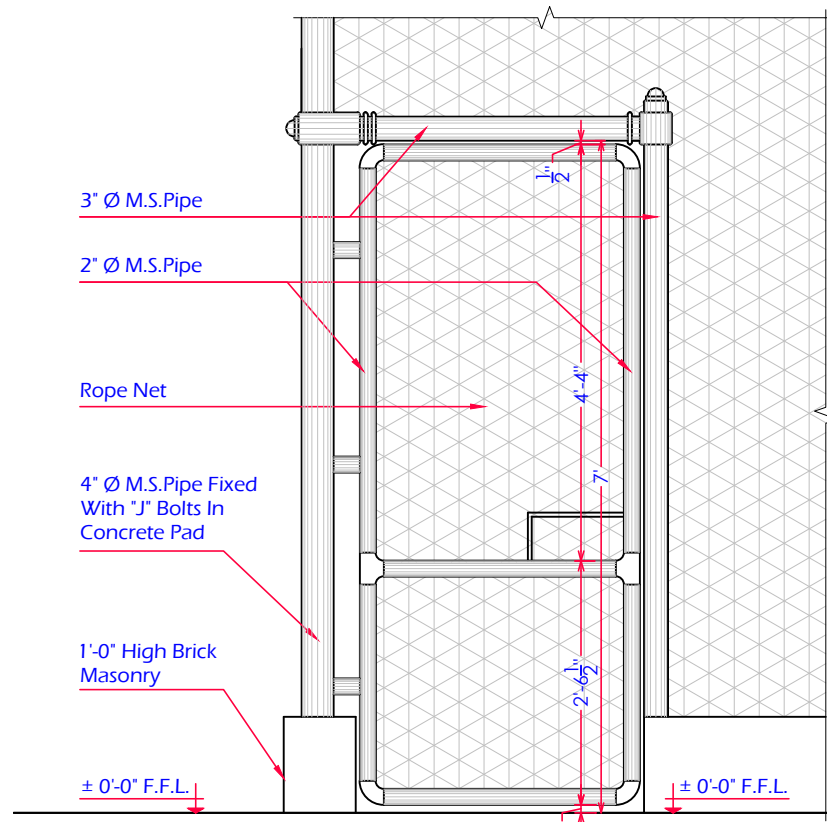
A FRONT ELEVATION (E-1)
A-502 Scale: 1"=8'-0"



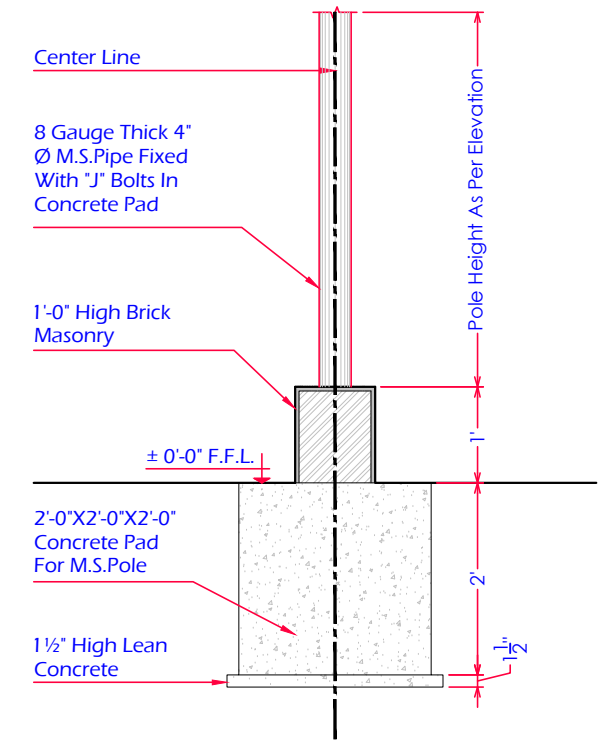
A SIDE ELEVATION (E-2)
A-502 Scale: 1"=8'-0"



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



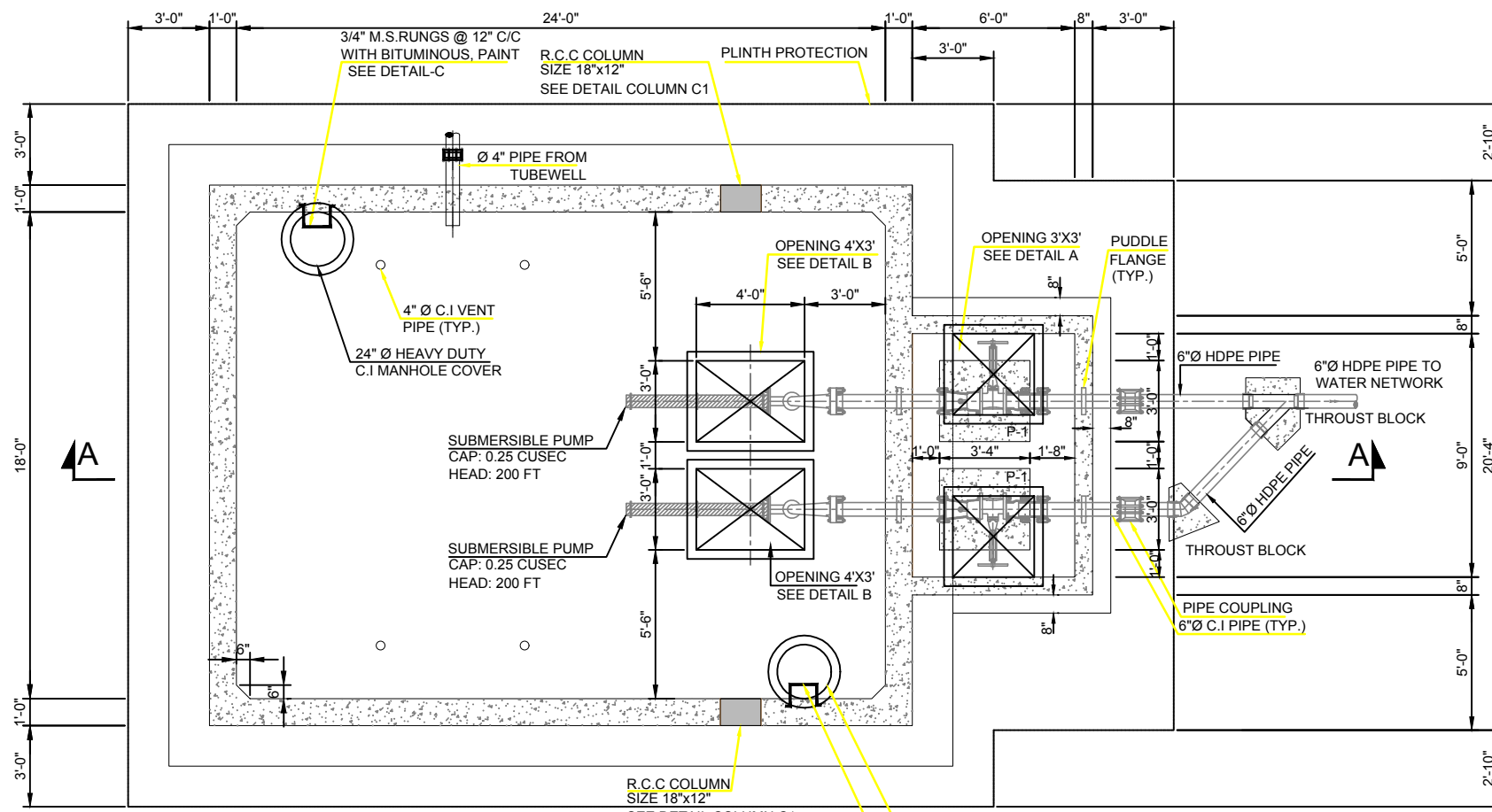
A DETAIL - B
A-502 Scale: 1"=2'-0"



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

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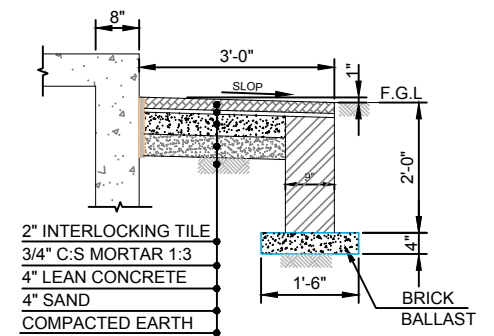
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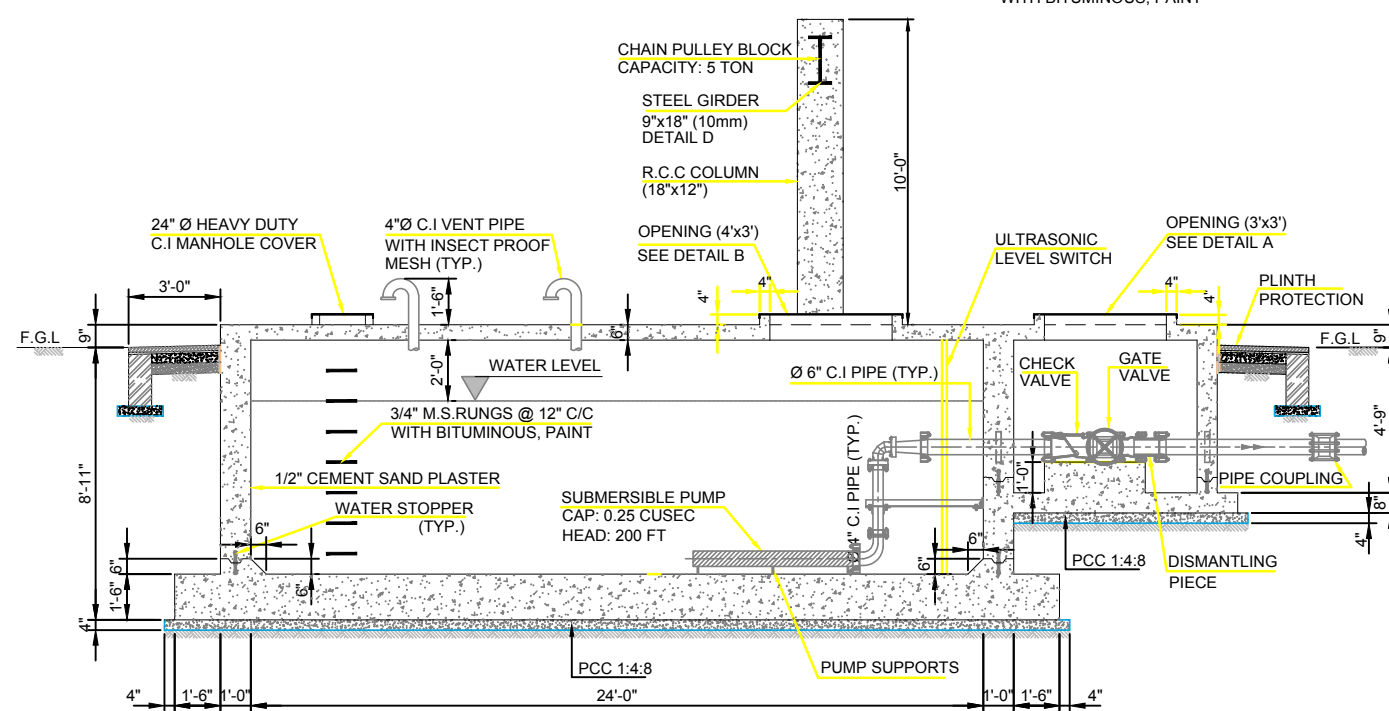
FOUNDATION PLAN

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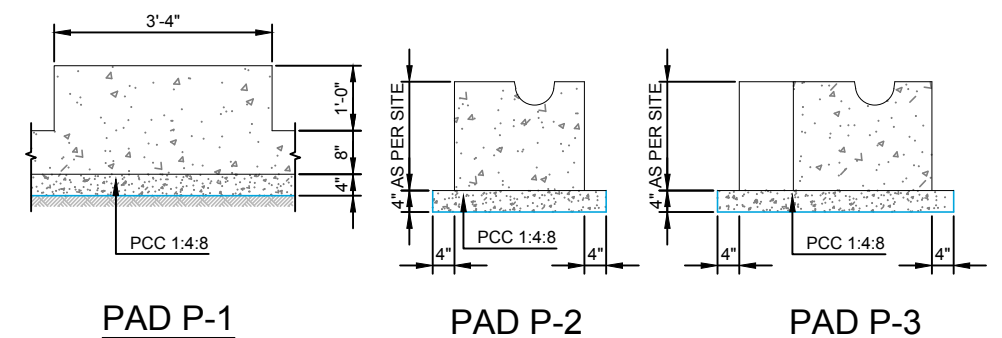
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TYP. PLINTH PROTECTION



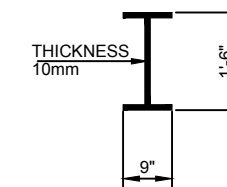
SECTION A-A



PAD P-1

PAD P-2

PAD P-3

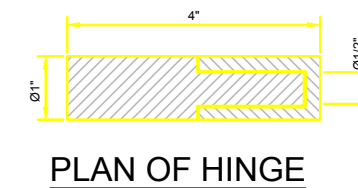
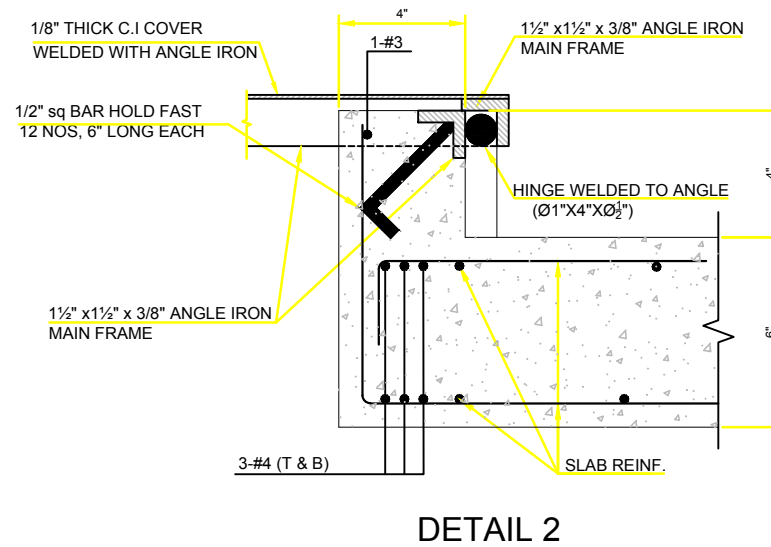
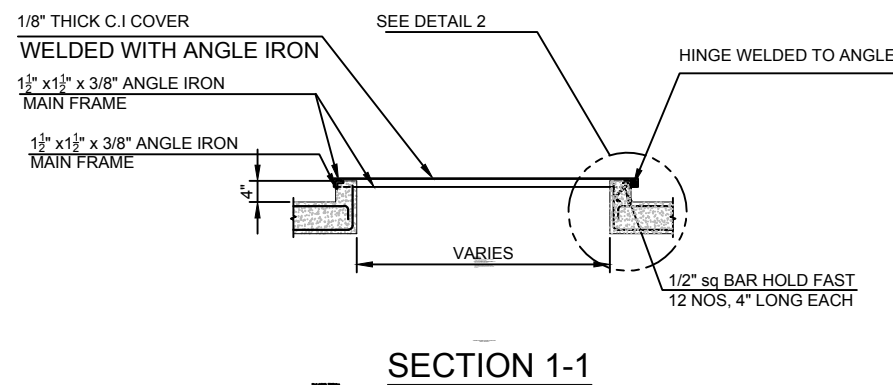
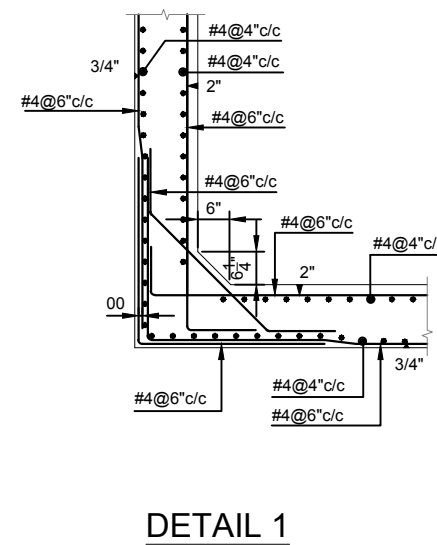
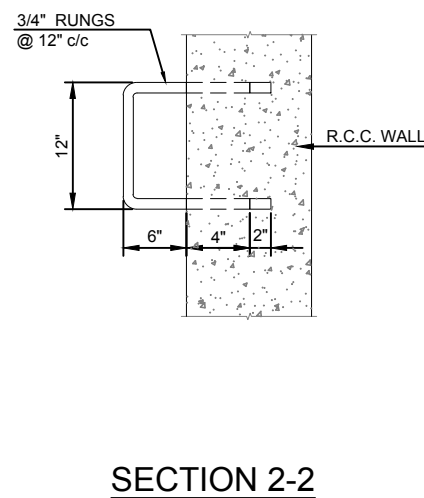
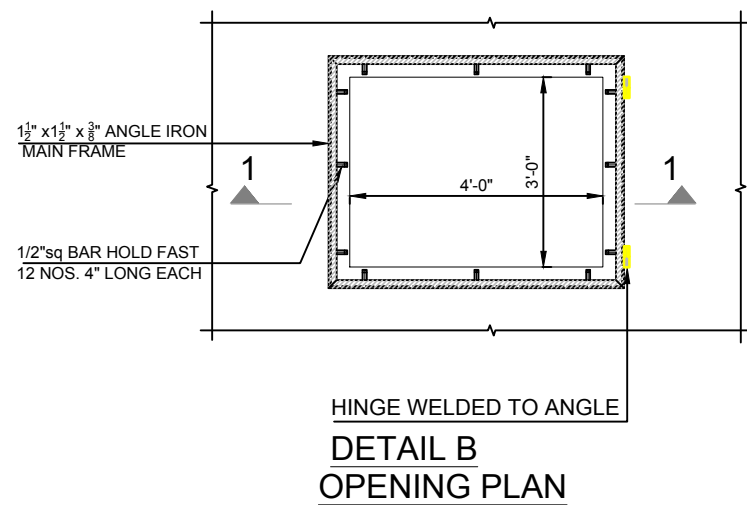
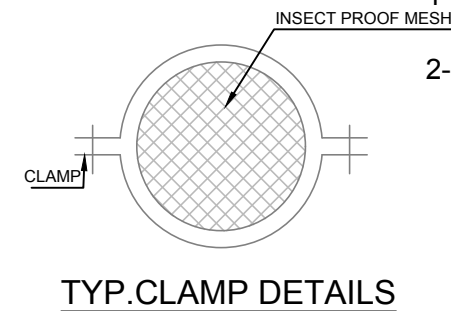
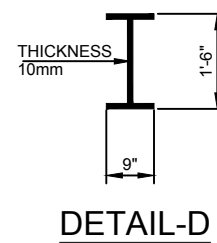
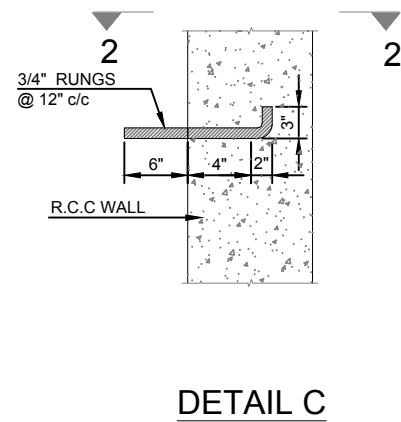
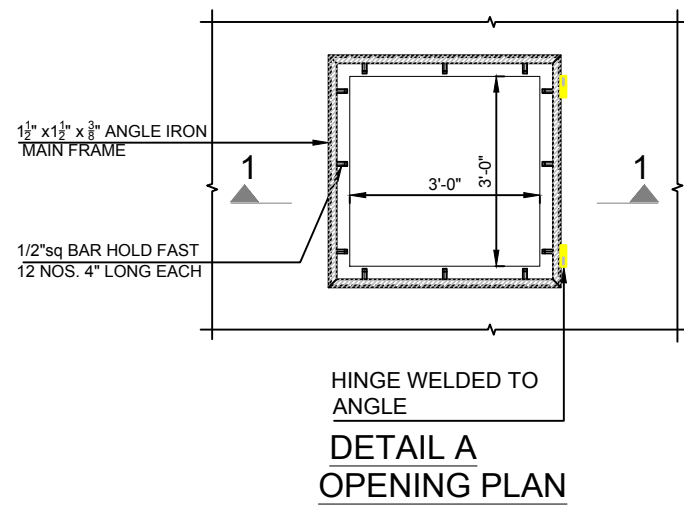


DETAIL-D

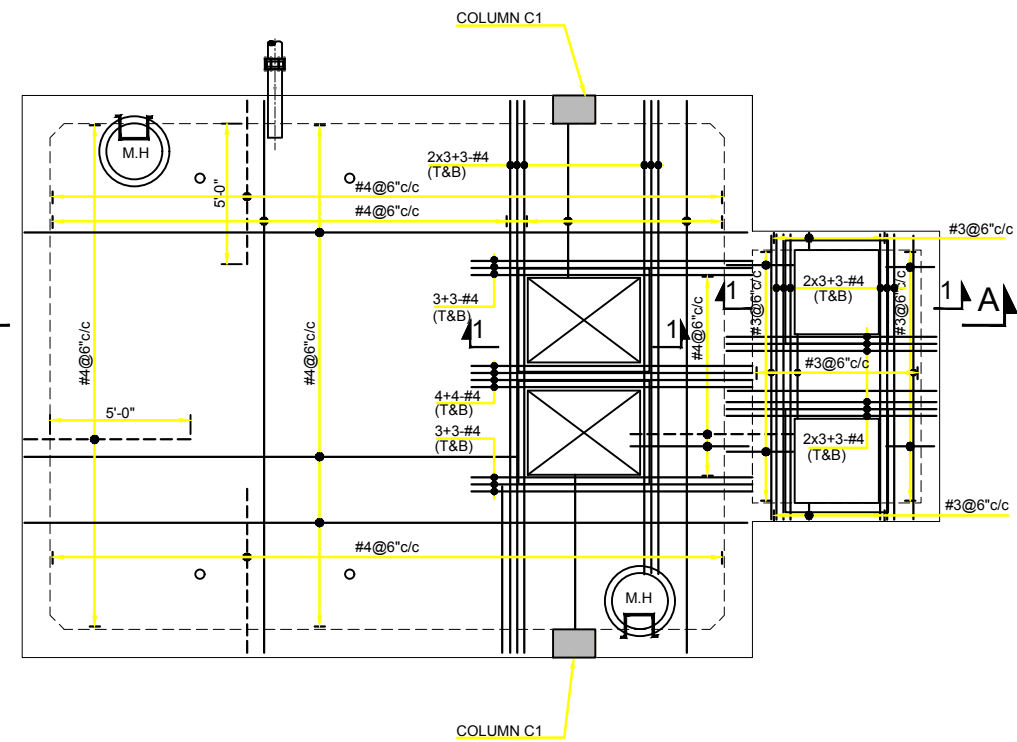
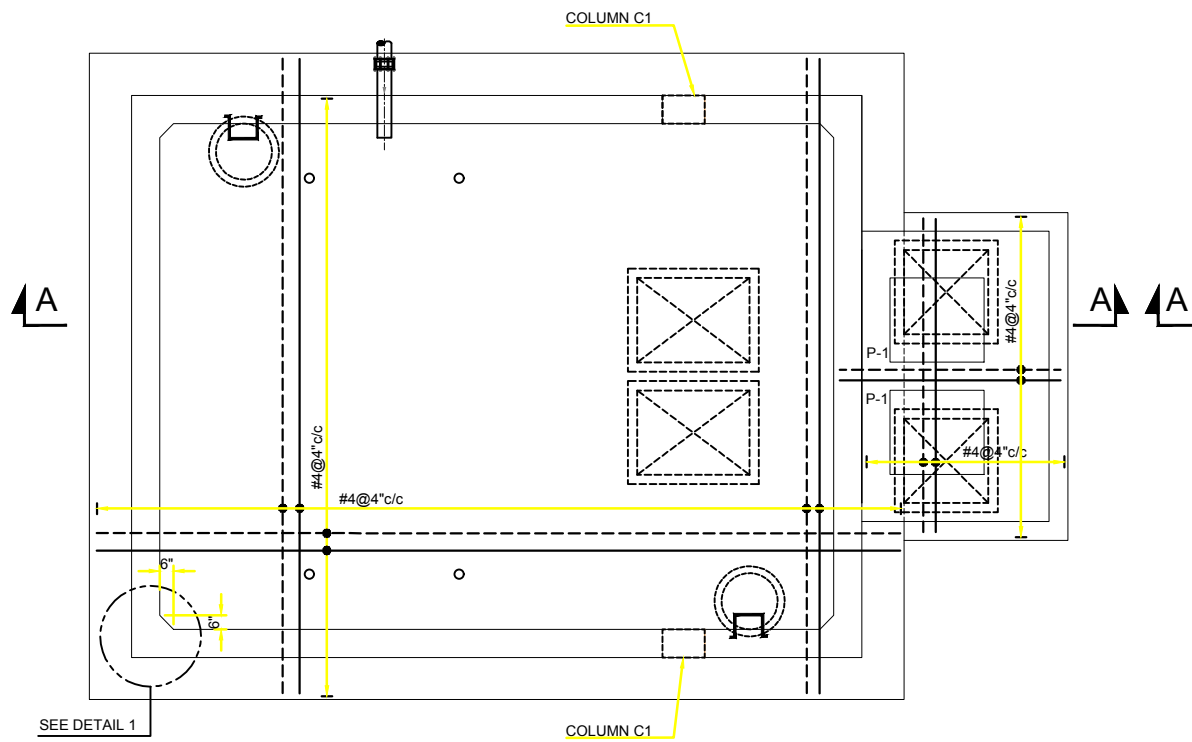
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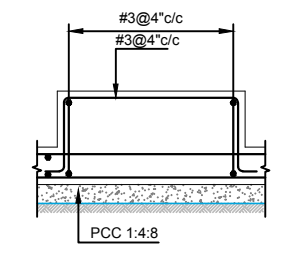
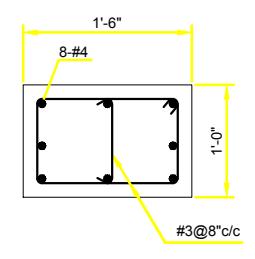
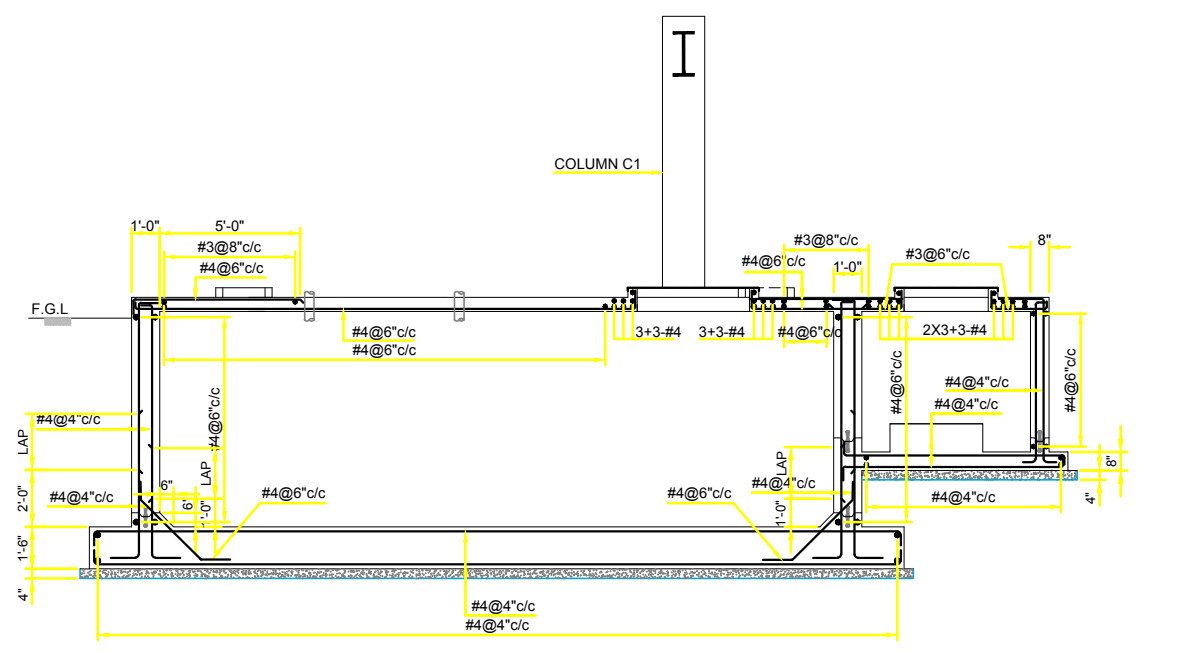


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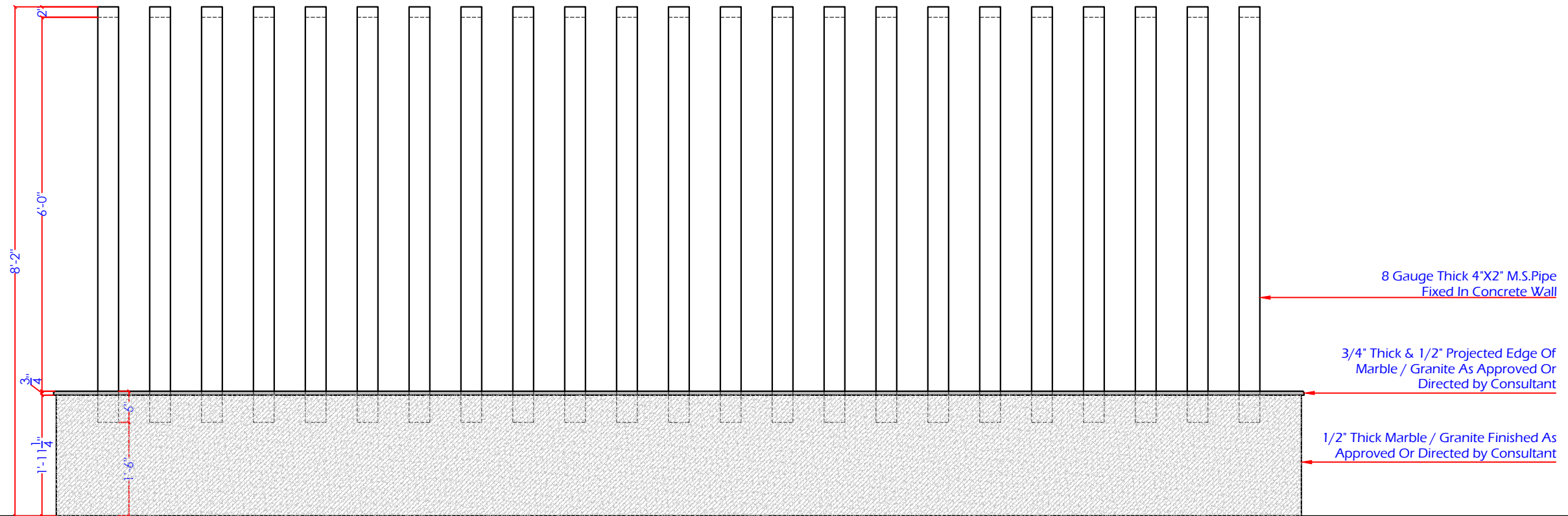
WORLD BANK

Project

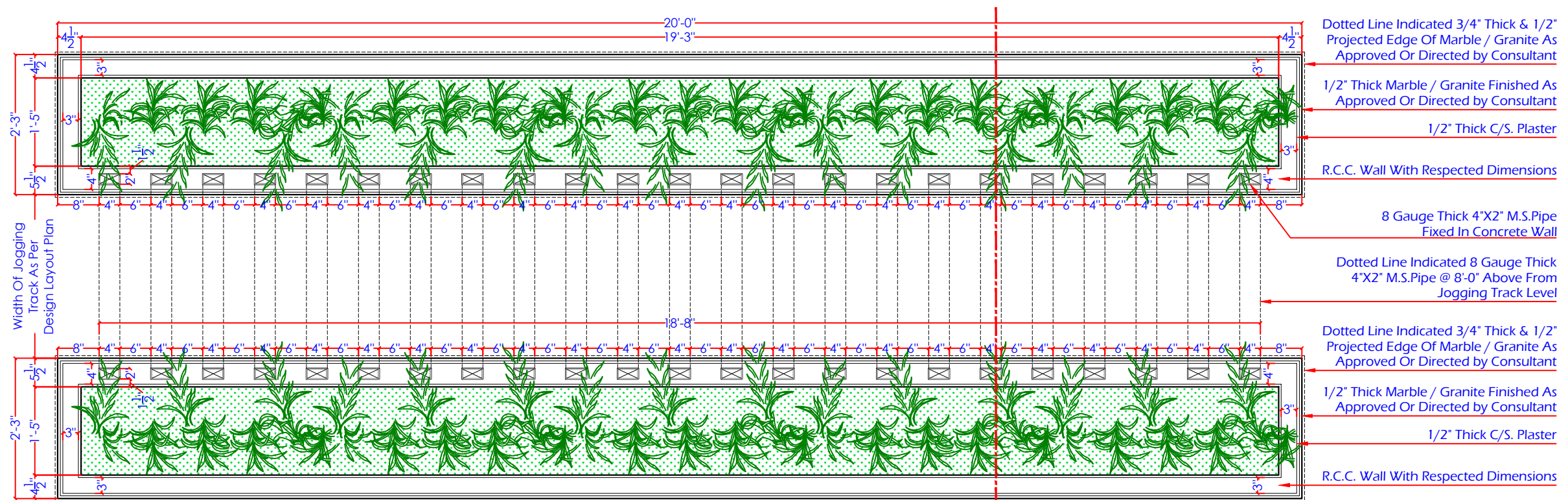
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Rev.	Date	Description	Checked	Approved	Title
					UNDER GROUND WATER TANK DETAIL-3
					Drawing No. MMP-1074P01-JHE-PARK-RH-TYP-WT-AR-503

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



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



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



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

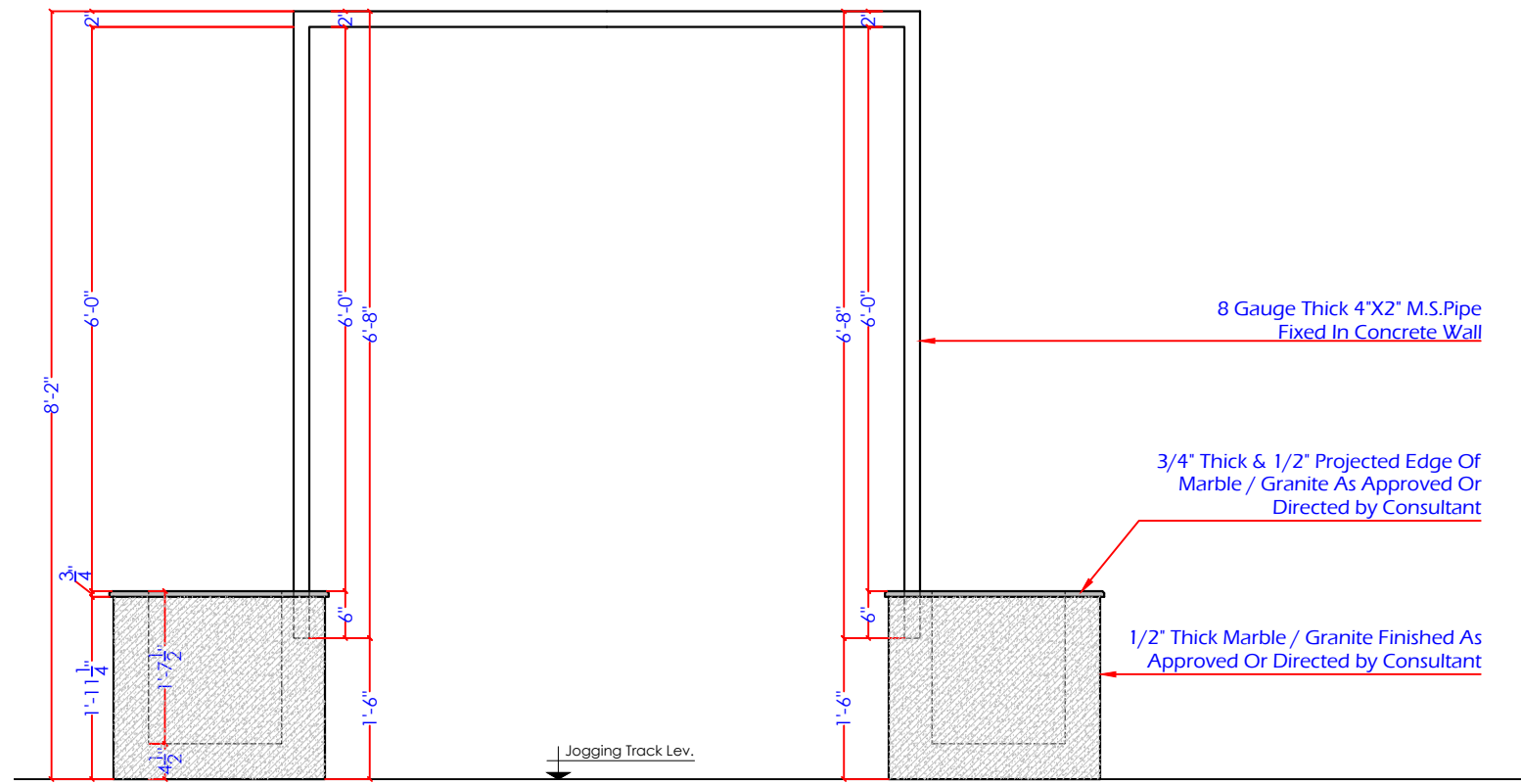
Financing Agency
WORLD BANK
Project
Punjab Cities Program (PCP)

Rev.	Date	Description	Checked	Approved

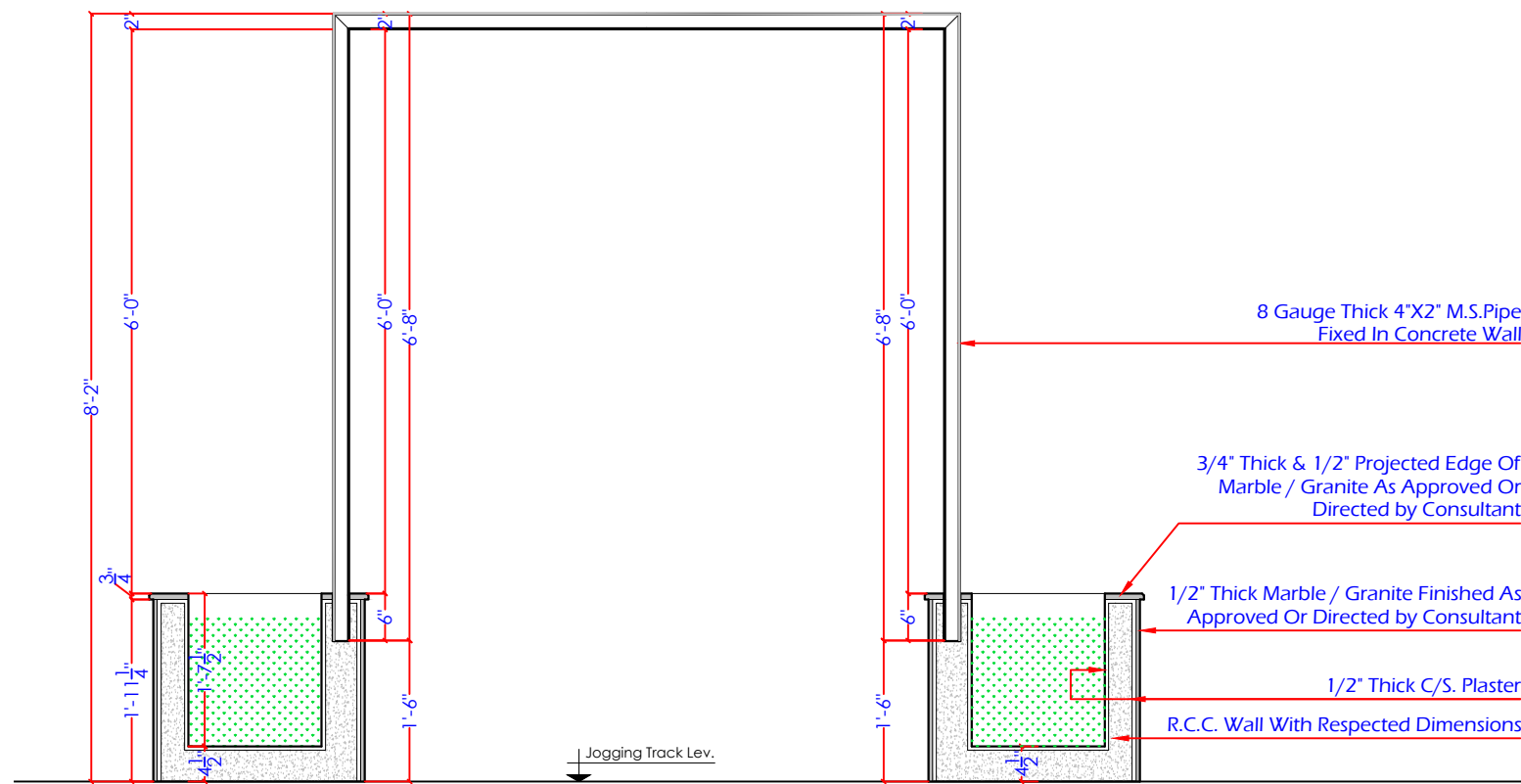
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VINE TUNNEL DETAIL-01
TYPE-B
Drawing No.
MMP-1074P01-JHE-PARK-TYP-VT1-AR-501

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




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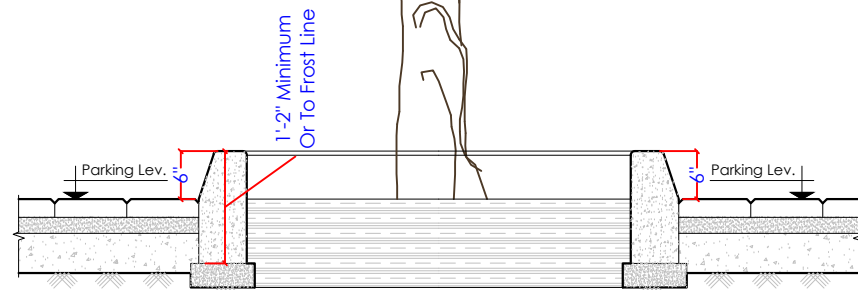
A SIDE ELEVATION
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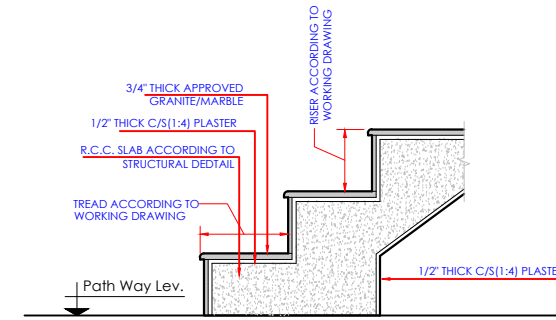
A SECTION AT A
A-501 Scale: 1"=2'-0"

Consultants  CENTRAL DESIGN CELL 2nd Floor, CT1 Building, 27-Empress Road, Lahore 042-36292528 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. 00 Date 18-09-2022 Description Checked Jahanzaib Approved Ashfaq	Title VINE TUNNEL DETAIL-02 TYPE-B Drawing No. MMP-1074P01-JHE-PARK-TYP-VT1-AR-502	Designed MMP Drawn MMP Checked MMP Approved PMDFC Scale As Shown
			162		Rev No: 0

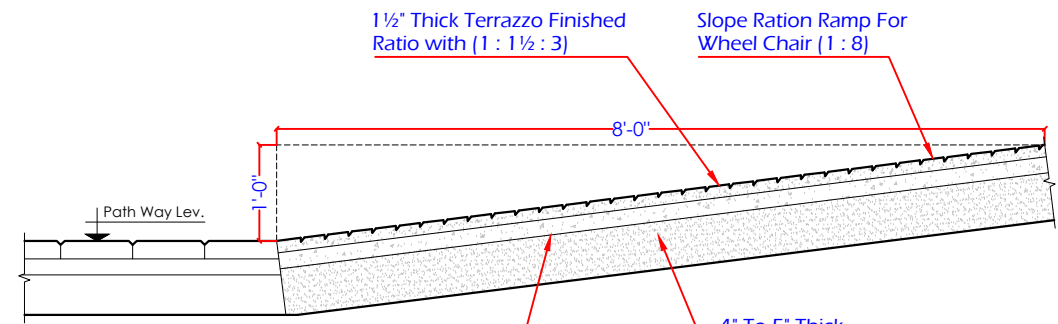
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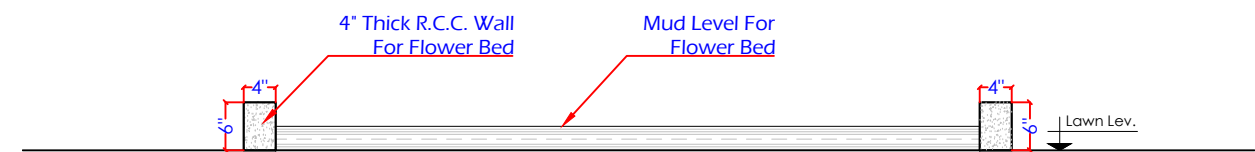
(A) PLANTER FOR PARKING
A-501 Scale: 1"=2'-0"



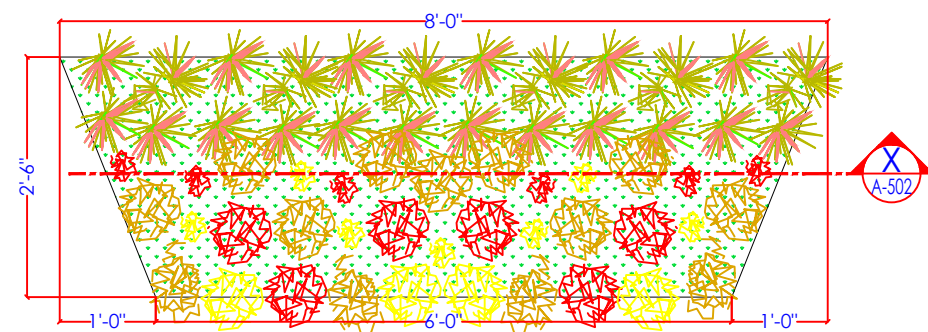
(A) STEPS DETAIL
A-501 Scale: 1"=2'-0"



(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























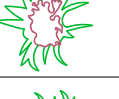
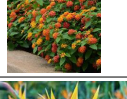




Punjab Cities Program (PCP)







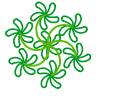





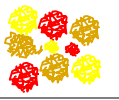

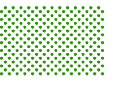

Rev.	Date	Description	Checked	Approved
00	18-09-2022		Jahanzaib	Ashfaq

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

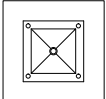
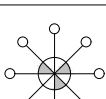
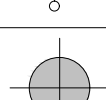
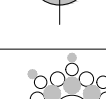
Designed	MMP
Drawn	MMP
Checked	MMP
Approved	PMDFC
Scale	As Shown
Rev No:	0

LEGEND

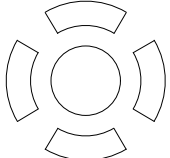

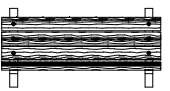
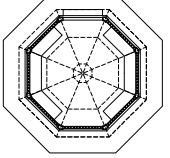
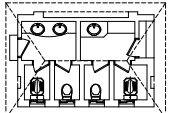
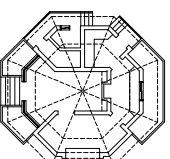

1	Terminalia Tree		
2	Phoenix Palm		
3	Alstonia tree		
4	GulMohar Tree		
5	Jacaranda Tree		
6	Yucca		
7	Rain Tree		
8	Plumbago		
9	Bismarkia		
10	Conocapus		
11	Cone Topiary		
12	Lantana		
13	Bird Of Paradise		
14	Foxtail Palm		




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	

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								Checked	MMP	
								Approved	PMDFC	
								Scale	As Shown	
								Rev No:	0	