

SCOPE OF WORK

CATEGORY: BC10 Roofing, Waterproofing and Sheet Metal

PART 1 – GENERAL

1.01 Related Documents

Division 00 – General Conditions and Supplementary Conditions

Division 01 – General Requirements

Exhibit A – Baseline Schedule

Exhibit B – Logistics Plan

Exhibit C – Soils Report: RMA Group dated August 8, 2024

Exhibit C.1 – Hydrology Report by KPFF Consulting Engineers dated 4/12/24

Exhibit D – Hazmat reports by Charles Taylor Environmental Technical Services

Exhibit E – Final Environmental Impact Report State Clearinghouse No.2023110328 dated June 2024

Exhibit E.1 – Mitigation Monitoring and Reporting Program State Clearinghouse No.2023110328 dated

Exhibit F – Reference Plans: The Construction of Ontario Regional Sports Complex (offsite utility and street plans)

Exhibit F.1 – Reference Plans: Mass Grading Package Phase 1

Exhibit F.2 – Reference Plans: Mass Grading Package Phase 2

Exhibit G – Site Concrete Limits

1.02 Relevant Technical Specifications Sections:

07 19 00 – Water Repellents

07 41 10 – Metal Roof Panels

07 54 19 – Thermoplastic Membrane Roofing

07 60 00 – Flashing and Sheet Metal

07 62 23 – Fabricated Gutters and Downspouts

07 90 00 – Joint Protection (Building & Site)

07 92 00 – Joint Sealants (Building & Site)

PART 2 – GENERAL INCLUSIONS:

1. The work includes but is not necessarily limited to furnishing all: labor, materials and the installation of same, appliances, tools, equipment, facilities, transportation, receiving and unloading, hoisting, task lighting, applicable taxes and services necessary for, and incidental to, performing all operations in connection with this scope of work.
2. The breakdown of the scope of work by specifications is for organizational purposes only. The scope noted herein provides additional clarity only. It is not necessarily all inclusive. Where there is a reference to a detail, plan sheet or a note, this is to bring awareness only. Unless specifically “excluded”, this Contractor has the entire scope of work.
3. The scope noted herein; regardless, if duplicated in another’s scope of work and other contract documents, shall be included in this Category Contractor’s base bid. In the event a scope item is duplicated in another Contractor’s scope of work and/or and other contract documents, this does not relieve this Contractor from the responsibility of the scope. It shall be the Construction Manager’s discretion as to which Contractor will perform the scope of work and who shall provide a credit for the value of the scope not provided.
4. Any reference in this scope to “Contractor”, “Category Contractor”, “Bid Category Contractor”, “Bid Package”, “Trade Contractor”, “Contractor”, “Subcontractor” or any version of these are all synonymous / one-in-the same.
5. Contractor shall provide at the job site a Superintendent fluent in written and spoken English at all times during the performance of this Contractor’s scope of work. It is the Contractor’s responsibility to supervise their on-site crews and subcontractors at all times work is being performed under Contractor’s scope of work.

6. Contractor is responsible to know the latest SCAQMD requirements:
 - A. Includes implementing those means necessary to ensure any and/or all related work materials, fluids, equipment, etc. are stored or covered in a manner acceptable to the requirements.
 - B. Contractor shall provide and maintain adequate dust control throughout the duration of their operation, including, but not limited to: washing/sweeping of existing sidewalks, public streets and concrete and asphalt access roads on a daily basis. Mitigation of dust shall be to the satisfaction of the Owner, City/County, and/or SCAQMD.
 - C. Any penalties the owner receives due to this Contractor's negligence will be forwarded to this Contractor for reimbursement.
7. Contractor shall take reasonable care to maintain Storm Water Pollution (SWPPP) related erosion control facilities and temporary storm water diversion means during all work.
 - A. If inclement weather is foreseeable during operations of this trade, this Contractor shall use its best effort to leave the site in a condition that minimizes the effects of erosion caused by such weather.
 - B. Contractor to protect all work from effects of inclement weather at its own cost. Protection of this Contractor's work area is the responsibility of same.
 - C. Any corrections and or repairs required due to damage inflicted by the work of this Contractor shall be the responsibility of same.
 - D. Any penalties the owner receives due to this Contractor's negligence will be forwarded to this Contractor for reimbursement.
 - E. Contractors requiring wash out shall have their washout container(s) clearly marked. NO direct dumping onsite and/or into sewer and/or draining systems.
 - F. Contractor to review 01 64 00 for additional relevant information.
8. Contractor shall comply with all CAL OSHA requirements.
9. Written survey requests are to be provided to Construction Manager's Superintendent a minimum of three (3) working days prior to the start of work requiring surveying and are to be submitted in a manner that does not require excessive surveyor move-ins.
10. Contractor shall properly install and maintain all barricades, traffic control, warning lights, flagmen, for deliveries, hauling and/or disposal, including permits & fees as required by local and/or governing Agencies / municipalities for Contractor's scope of work whether expressly mentioned or not.
11. Contractor shall provide additional fencing, barricades, and/or other protection, which is in addition to site perimeter temporary fencing provided by others to protect open excavations or other hazards resulting from this Contractor's work. Contractor shall cover all open trenches with Cal OSHA compliant covering or soil each day. Temporary trench covering is to be installed in a manner so as to eliminate tripping hazard. It is the Contractor's responsibility to security material and equipment. Any theft of material/equipment is the Contractor's responsibility to replace.
12. Contractor is responsible to turn in Inspection Requests (IRs) and/or testing requests to Construction Manager's Superintendent no less than 48 hours prior to desired IOR inspection and no less than 72 hours for testing laboratory (LOR) inspection. Work must be complete and in compliance with the contract documents prior to IOR inspection. Contractor shall provide the necessary resources to make up time and bear all related cost associated with any late inspection requests and/or rejected inspections.
 - A. Contractor foreman shall walk with the IOR during all inspections for this subcontractor's scope of work.
13. Any F.O.B. material and/or coordination required for the installation by this Contractor and/or other Contractors, shall be forwarded by the supplying Contractor with a letter of transmittal and detailed shop drawings showing dimensions, locations, and individual piece count to the installing Contractor via Tilden-

Coil. ALL F.O.B. deliveries shall be coordinated with Construction Manager and the receiving Contractor at least 48 hours in advance. The receiving Contractor shall unload, inventory, and inspect materials. All shortages and damaged material must be noted on said transmittal. Receiving Contractor shall sign and date transmittal. Once the transmittal has been signed, it shall be the receiving Contractor's responsibility to protect and secure the material. Supplying Contractor shall forward a copy of signed transmittal to the Construction Manager's site office for their review and records. Supplying Contractor shall forward all F.O.B. material within the time limits as noted in the construction schedule so as to not delay receiving Contractor's work. If work is delayed due to the untimely forwarding of required material and/or information, the applicable Contractor shall be responsible for any and all costs incurred due to delays and/or corrective work.

14. A representative from this Contractor is to be on site to receive all material deliveries, whether they are performing work on site at the time or not. Construction Manager will not receive or sign for any deliveries of this Contractor's material. Contractor is to provide traffic control, including but not limited to flagmen, signage, delineators, etc. for any delivery vehicles that are unable to be unloaded on the project site, in accordance with all local traffic laws.
15. Contractor understands that housekeeping is critical to both safety and efficiency. Therefore, daily cleanup is an obligation of the contract. Contractor is responsible to legally remove their debris offsite on a daily basis or as necessary as not to be an impact to safety and dependent trades / progress of the project schedule. If daily housekeeping falls below acceptable standards, the Owner shall consider one of the three options to mitigate:
 - A. Require a composite cleanup crew, as needed, until standard is restored. Contractor's manpower contribution size will be based on manpower size as follows:
 - i. 1 to 5 workers = 1, 6 to 10 workers = 2, 11-15 workers = 3, 16 to 20 workers = 4, 20+ workers = 5.
 - B. Hire a separate cleanup crew as needed until standard is restored. Hired crew will be funded via a deductive change order to the offending Contractor(s).
 - C. Require an "all hands" cleanup session as needed until standard is restored.
16. Contractor shall protect all existing on and/or offsite conditions. Any damage sustained by the work of this Contractor, shall be repaired or replaced by the next shift or as directed by Construction Manager or Owner at the expense of this Contractor.
17. For known trade causing damage, it is required to be repaired by the next shift.
18. Contractor has been allotted a number of days for construction activities that relates to this trade. Contractor must manage to complete all work in allotted time frame without excuse. Contractor agrees to assign the appropriate manpower to complete the activities. Therefore, all clarification and approvals must be obtained prior to start of work and in such time as to allow response, procurement, and preparation without compromising the schedule activity time and scheduled start date and finish date. Late coordination and RFI's requested during work progress will not be an excuse for delay.
19. Contractor shall provide their own storage and safety measures.
20. Mobilizations and move-ins as necessary to achieve the progression of the project schedule.
21. Contractor understands and is responsible for all layout for their respective work.
22. Any new substrate provided by others for this Contractor's use and/or any existing substrate (existing conditions) is found to be unacceptable at the time of installation, Contractor shall advise Construction Manager before commencing. Any repairs and/or replacement required to the substrate once Contractor has commenced their work on the substrate, all costs associated with the removal and replacement of finished product shall be at the expense of this Contractor.

PART 3 - TRADE SPECIFIC INCLUSIONS:

Roofing:

New Installation:

1. Provide the specified roofing system, including rigid insulation, crickets, built up insulation, PVC flashings, weather barriers, and underlayment. All necessary roofing accessories, whether shown or not.
2. All nailers, cant strips, tapered edge strips, insulation transitions, and wooden equipment/piping supports.
3. All appurtenances for a complete weather tight installation and to meet required warranties.
4. Turn roofing up parapets and equipment curbs as required. Terminate roof membrane under counter flashing and provide nailer as required for the termination of the roofing.
5. All PVC, sheet metal or lead flashing and clamps in accordance with the manufacture's recommendation at steel post, mechanical, electrical and plumbing pipe related penetrations.
6. Sheet metal or lead flashing at primary and secondary roof drain sumps and roof scuppers as required by the contract documents and/or roofing manufacturer. Remove and re-install roof drain dome and ring assemblies as needed for this installation.
7. Sarnatred-V Walk pads as shown on the drawings shall be installed 'square' to adjacent mechanical equipment and "square" to adjoining pads.
8. Coordinate with Structural Steel, Carpentry, Plumbing, Mechanical, and Electrical Contractors for required roofing penetrations; regardless, if penetrations are shown or not. There shall be NO additional costs to install roofing crickets or shaped insulation around any required penetration flashings, curbs or equipment which are in-place prior to the start of roofing for proper drainage.
9. Roofing Contractor shall schedule a pre-installation conference with roofing manufacturer in attendance, inspect roof substrate and submit a report (14) calendar days prior to the scheduled start of the roofing, listing items of concern that require corrections. Additional time will not be granted for roofing for failure to inspect substrate and notify the Construction Manager of concerns or corrections required. Start of work constitutes acceptance of substrate. Contractor shall be responsible for any roof removal required for revision to or repairs of substrate, and the repairs to the roofing necessary for repairs.
10. Surfaces, equipment, and finishes shall be free from bitumen spills and boot prints.
11. Roofing Contractor will perform flood testing on roof. Any "Ponding" or non-positive drainage shall be addressed / remediated at no additional expense.
12. Comply with OSHA regulations. Any controlled access zone or other means of compliance shall be provided by the Roofing Contractor.
13. Clean roof prior to and after installation.
14. Metal extender flashing as noted per 6 & 11/A-9.1.
15. Equipment Support Metal Cap Flashing as noted on 8/A-9.1.
16. Metal Roof panel assembly.
17. Roofing felt as noted.

18. Waterproofing and/or vapor barrier system behind metal roof configurations, as required for a complete weather-tight system.
19. Provide (10) roof patches in (10) separate mobilizations.
20. **Densdeck Board as noted in the plans.**

Sheet Metal:

General Sheet Metal:

21. All architectural and roofing related sheet metal and trim 12 gauge and lighter.
22. Sheet metal gutters, collectors and downspouts.
23. Drip flashing, jamb flashing, umbrella flashing, and metal splash blocks.
24. All necessary accessories, clips, fasteners with neoprene washers for the proper weather tight assembly.
25. Prefinished flashing as noted.
26. Any sheet metal not sized in the Contract Documents shall be a minimum of 20 gauge, or as required for the application.
27. Sawcut concrete, masonry, plaster conditions (where noted) for flashing installation.
28. Pre-finished exterior wall louvers, bird screen, related accessories, attachments, and appurtenances.

Miscellaneous Scope of Work and Coordination:

29. All related soldering and/or welding for sheet metal where shown or where necessary.
30. Shim and wood blocking to plumb, slope, or level as necessary for installation.
31. Joint sealant/caulking where shown or noted for materials installed by this Contractor including where material abuts an adjacent finished material. Application to be in accordance with the joint sealant specifications.
32. All roof accessories, unless noted otherwise.
33. Roof hatches **& Ladder up safety posts.**

Waterproofing:

33. All sheet and liquid waterproofing, drainage board, and protection board systems including accessories and appurtenances for a water-tight assembly at vertical and horizontal conditions.
34. All traffic coating including accessories and appurtenances for a water-tight assembly. Elasto-Deck/Dex-o-Tex System as noted on 10 & 11/A-9.5.
35. Prepare surface per manufacturer's recommendations.
36. Beginning of waterproofing means Contractor accepts the condition of the substrate. If any rework and/or repairs are required to the substrate, all costs associated to repair surface(s) shall be at the expense of this Contractor.

37. Contractor to inspect surface scheduled to receive waterproofing no later than two (2) weeks in advance of commencement to ensure surface meets the manufacturer's recommendation. Contractor to provide letter of acceptance and/or identify issues that need to be addressed.
38. Coordinate any exposed waterproofing with final grades and assure a clean and even termination line. All exposed termination to be sealed or flashed for weather tightness.
39. Provide Carlisle MIRADRI 860 & MiraDRAIN 6200 Drainage composite as noted in the plans.
40. Provide waterproofing at elevator pit walls from top of footing to just below finish grade.
41. **Water & ICE W.P Membrane as noted on 21/A-9.2.**

PART 4 – ALLOWANCES:

1. Bid Contractor shall include in their base bid the Trade Specific Bid Category Allowance identified in Division 01 (Specification Section 01 21 00 – Allowance). This allowance shall be used at the discretion of the Construction Manager and/or Owner. The allowance shall not be used for this Contractors' poor workmanship, missed scope, delays imposed due to this Contractor, or corrective work. All labor rates and material cost shall be determined in accordance with the General Conditions. All mark-up, general conditions, bonds, fee, overhead & profit, insurance, and supervision for this allowance shall be in addition to the allowance amount identified in Division 01 and is to be included in this Contractor's Base Bid. This allowance shall be specifically itemized on this Bid Category Contractors Schedule of Values.

PART 5 – EXCLUSIONS:

1. Aluminum perforated panels for Graphic Walls shown on the W sheets (By Signage Contractor)