**PART 1-GENERAL**

**1.01 SECTION INCLUDES**

A.Requirements for phasing of Work include logistics, phasing, and completion of designated phases prior to commencement of subsequent phases.

**1.02 RELATED SECTIONS**

A**.** Section 01 11 00: Summary of Work

 C.Section 01 31 13: Project Coordination

 D**.** Section 01 33 00: Submittals

 E.Section 01 32 13: Construction Project Schedule

 F.Section 01 50 00: Construction Facilities and Temporary Controls

 G.Section 01 77 00: Contract Closeout

**PART 2-PRODUCTS (Not used)**

**PART 3-EXECUTION**

**3.01 SUBMITTALS**

A.CONTRACTOR shall submit a Project site logistics plans in accordance with and as required by this Section.

**3.02 LOGISTICS**

A. Prior to commencement of Work, CONTRACTOR shall prepare and submit to OAR and FUSD a detailed Project site logistic plan, in same size and scale of Drawings, setting forth CONTRACTOR plan of Work relative to following, but not limited to, items:

 1. Hauling route shall be in accordance with local ordinances for truck access route to and from the Project site.

 2. The identification of any overhead wire restrictions for power, street lighting, signal or cable.

 3. Local sidewalk access and street closure requirements.

 4. Protection of sidewalk pedestrians and vehicular traffic.

 5. Project site fencing and access gate locations.

 6. Construction parking.

 7. Material staging or delivery areas.

 8. Material storage areas.

 9. Temporary trailer locations.

 10. Temporary service location and proposed routing of all temporary utilities.

 11. Location of temporary or accessible fire protection.

 12. Trash removal and location of dumpsters.

 13. Concrete pumping locations.

 14. Crane locations.

 15. Location of portable sanitary facilities.

 16. Mixer truck wash out locations.

 17. Traffic control signage.

 18. Perimeter and site lighting.

 19. Storm Water Pollution Prevention Plan-SWPPP

 20. Stockpile or lay down areas.

 21.Security lighting.

 B. Revised Project site logistic plan may be required by OAR and FUSD for separately identified phases of Work as set forth in this Section.

 C. CONTRACTOR is responsible for securing and/or obtaining all approvals and permits from authorities having jurisdiction, relative to any activities set forth in Section 3.02.

**3.03 PHASING OF THE WORK**

A. Project will be constructed in separate Milestone increments, as identified or as described in this Section or Contract Documents. Phasing will also delineate Work to be completed in each designated phase. Unless otherwise approved or directed by OWNER, each phase shall be completed according to approved Baseline Schedule prior to commencement of next subsequent phase. CONTRACTOR shall incorporate and coordinate Work of Separate Work Contracts relative to this Project into the Phasing and Construction Schedule.

 B. CONTRACTOR shall install all necessary Work for, but not limited to, power, lighting, signal, HVAC, drainage, and plumbing systems in phased Work before completion of designated phase. All valves, pull boxes, stub outs, temporary capping, and other Work necessary for phased completion and operation of all necessary systems shall be provided whether or not such Work is specifically identified in Contract Documents.

**3.04 PHASING OF THE WORK-GENERAL**

A. CONTRACTOR shall prepare Construction Schedule in order to complete Work and related activities in accordance with phasing plan. CONTRACTOR shall include all costs to complete all Work within Milestones or Contract Time.

 B.OWNER will be seriously damaged by not having all Work completed within Milestones or Contract Time. It is mandatory Work be complete within Milestones or Contract Time.

**3.05 PHASING OF THE WORK- SPECIFIC**

A. CONTRACTOR shall prepare Construction Schedule, and shall complete following, but not limited to Milestones, as shown in Section 01010 and within designated phases in accordance with the following:

 1. Phase 1 Mobilization-(# of days) calendar days: Milestones 1 & 3

 2. Phase 2 Construction-(#days) calendar days: Milestone 2, 4-28

 3. Phase 3 Administrative Closeout- (# of days) calendar days: Milestone 29

 B**.** The Contract Time shall be a total of (**# days**) calendar days from date of commencement of Contract Time.

**END OF SECTION**

**APPENDIX A – MILESTONES**

CONTRACTOR shall commence performance of the Contract upon the date specified in the Notice to Proceed and shall furnish sufficient forces, facilities and materials, work such hours, including extra shifts and overtime operations, so as to fully perform the Work in accordance with the following Milestones:

|  |  |  |  |
| --- | --- | --- | --- |
| **Milestone** | **Description** | **Schedule** | **Liquidated****Damages****Amount Per****Calendar Day** |
| No. 1 | Notice to Proceed: Is established in accordance with Articles 1.34 and 2.2 of the General Conditions | As determined in the NTP |  |
| No. 2 | Critical Shop Drawings & Submittals Complete: Is defined as CONTRACTOR prepared Shop Drawings and Submittals that are either critical or near critical to the overall Substantial Completion of the Project. Milestones may include, but not be limited to, DSA deferred Approvals steel Shop Drawings, excavation support drawings, seismic calculations, shoring system drawings, or any long lead fabrication/procurement item requiring Shop Drawings. | \*\*\*\*\* CalendarDays after the effective date of the NTP. | $ AmountsAs indicated in the Supplementary Conditions |
| No. 3 | Completion of Mobilization activities: Is defined as CONTRACTOR mobilization completed, logistics plan submittal and approval (access, gates, parking, trailer locations, signage), site fencing complete, temporary offices complete (trailers-fully functional with furniture, office equipment, network connection and office supplies., storage bins, dumpsters), temporary Utilities and complete (water, electric, phone, sanitation, fire protection), Project signage complete, obtain all required permits, implementation Storm water Pollution Prevention Measures, submission of Contractor Safety Plan as per OCIP, submission Of CONTRACTOR Hazard Communication Plan as per OCIP. | 30 calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 4 | Baseline Schedule Complete: Is defined as an OAR approved baseline schedule that meets all the requirements outlined in Division 01 Section 01360 and 01010. | 120 calendar days after the effective date of the NTP. | $ Amounts as indicated in the Supplementary Conditions. |
| No. 5 | Building Pad Certification: Shall be a separately listed for each building and is defined as building areas excavated, graded, and surveyed in accordance with Division 01 Section 01130, 3.03 J. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 6 | Site Underground Utilities Complete: Shall be separately listed for each building and is defined as all underground utilities (mechanical, electrical, and plumbing) installed from the point of supply to five feet outside the building line, inspected by the PI. | \*\*\*\*calendar days after the effective date of the NTP. | $ Amounts as indicated in the Supplementary Conditions. |
| No. 7 | Foundations Complete: Shall be a separately listed for each building and is defined as all rebar, formwork, and concrete in place, inspected by the PI. | \*\*\*\*calendar days after the effective date of the NTP. | $ Amounts as indicated in the Supplementary Conditions. |

\*Milestone date to be determined by CONTRACTOR during development of the Construction Schedule and submitted to the OAR for approval.

**APPENDIX A-MILESTONES**

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| **Milestone** | **Description** | **Schedule** | **Liquidated Damages Amount Per Calendar Day** |
| No. 8 | Structural Steel Complete: Shall be separately listed for each building and is defined as steel completely erected, bolted, welded, tested, and inspected by the PI and Specialty Inspector. | \*\*\*\* calendar days after the effective date of the NTP. | $ Amounts as indicated in the Supplementary Conditions. |
| No. 9 | Roofing System Complete: Shall be separately listed for each building and is defined as roofing system completely installed and inspected by the PI. | \*\*\*\* calendar days after the effective date of the NTP. | $ Amounts as indicated in the Supplementary Conditions. |
| No. 10 | Exterior Painting Complete: Shall be separately listed for each building and is defined as exterior finish coat completed and inspected by PI. | \*\*\*\* calendar days after the effective date of the NTP. | $ Amounts as indicated in the Supplementary Conditions. |
| No. 11 | Utility Provider Access: Shall be separately listed for each utility and for each building and is defined as complete access to all areas and rooms for electrical, water, gas, sewer, cable and telephone incoming and distribution services. | \*\*\*\* calendar days after the effective date of the NTP. | $ Amounts as indicated in the Supplementary Conditions. |
| No. 12 | Permanent Lighting Functional: Shall be separately listed for each building and is defined as all lighting fixtures installed and wires leading to light sources, dimmers, control panels, and transformer to be completely pulled, terminated, tested, and operational with permanent and/or temporary power and inspected by the PI. | \*\*\*\* calendar days after the effective date of the NTP. | $ Amounts as indicated in the Supplementary Conditions. |
| No. 13 | Electrical Equipment Energized (Permanent Power): Shall be separately listed for each building and is defined as all major electrical equipment (transformers, MCC’s, CIC’s, control panels, switch boards) installed with points of contact terminated, tested, inspected by the PI and energized with permanent power. | \*\*\*\* calendar days after the effective date of the NTP. | $ Amounts as indicated in the Supplementary Conditions. |
| No. 14 | HVAC Equipment complete: Shall be separately listed for each building and is defined as all HVAC ducting installed, system fans and units operational, controls installed and operational, inspected by the PI | \*\*\*\*calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 15 | HVAC Test & Balance: Shall be separately listed for each building and is defined as HVAC equipment fully tested and balanced with verified test and balance reports submitted to ARCHITECT. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 16 | Electrical UPS complete: Shall be separately listed for each building and is defined as Uninterrupted Power Supply system installed, operational, tested, and inspected by PI. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |

\*Milestone date to be determined by CONTRACTOR during development of the Construction Schedule and submitted to the OAR for approval.

**APPENDIX A-MILESTONES**

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| No. 17 | Mechanical Room complete: Shall be separately listed for each building and is defined as all mechanical equipment inside the mechanical room to be installed, operational, tested, and inspected by the PI. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 18 | Plumbing Complete: Shall be separately listed for each building and is defined as all the plumbing systems installed, operational, tested, and inspected by the PI. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 19 | Interior Painting Complete: Shall be separately listed for each building and is defined as interior finish painting complete and inspected by the PI. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 20 | Computer Networking Systems: Shall be separately listed for each building and is defined as all racks and cabinets(MDF/IDF/LDF), hardware components (switches, panels, UPS, routers, etc.) pathways, cables and termination hardware. System shall be installed in accordance with contract documents and shall be 200% tested for defects in installation and to verify system operation and required performances. All system “close-out” documentation and material shall be submitted and approved. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 21 | Intrusion Alarm System: Shall be separately listed for each building and is defined as all pathways, cabling, motion detectors, main security key switch or key pad and alarm controller installed in accordance with contract documents and shall be 100% tested for proper operation and lack of defects in installation. All system “close-out” documentation and material shall be submitted and approved. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 22 | Public Address System: Shall be separately listed for each building and is defined as all intercom/program distribution control panel, switch bank, amplifiers and speakers installed in accordance with the contract documents and shall be 100% tested for proper operation and lack of defects in installation. All system “close-out” documentation and material shall be submitted and approved. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 23 | Fire Sprinklers Complete: Shall be separately listed for each building and is defined as all fire sprinkler piping complete, including sprinkler heads, joints, valves, tested, and inspected by the PI, State Fire Marshall and the City or County Fire Authority having jurisdiction. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |

\*Milestone date to be determined by CONTRACTOR during development of the Construction Schedule to the OAR for approval.

**APPENDIX A-MILESTONES**

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| **Milestone** | **Description** | **Schedule** | **Liquidated Damages Amount Per Calendar Day** |
| No. 24 | Fire Alarm Complete: Shall be separately listed for each building and is defined as fire annunciator control panel installed and completely tested, fire suppression equipment installed, egress plans submitted and alarm system inspected by the PI, State Fire Marshall and the City or County Fire Authority having jurisdiction. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 25 | Elevators Complete: Shall be separate listed for each building and is defined as elevator cab installed, systems complete, operational, tested and inspected by the PI, and licensed for operation by Cal-OSHA Elevator Unit in compliance with Specification Section 14420. | \*\*\*\* calendar days after the effective date of the NTP | $Amounts as indicated in the Supplementary Conditions. |
| No. 26 | Kitchen Complete: Shall be separately listed for each building and is defined as all kitchen equipment installed, operational (inclusive of natural gas and permanent power), tested, and inspected by the PI and approved for operation by the Department of Health & Safety. | \*\*\*\*calendar days after the effective date of the NTP | $Amounts as indicated in the Supplementary Conditions. |
| No. 27 | Hardscape Complete: Is defined as all asphalt/concrete or outdoor hard surface complete in accordance with Drawings and Specifications and inspected by the PI. | \*\*\*\*calendar days after the effective date of the NTP | $Amounts as indicated in the SupplementaryConditions. |
| No. 28 | Landscape / Irrigation Complete: Is defined as all horticultural items such as trees, bushes, or grass planted in accordance with Drawings and Specifications, and complete, tested, and inspected by the PI. | \*\*\*\*calendar days after the effective date of the NTP | $Amounts as indicated in the Supplementary Conditions. |
| No. 29 | Owner Furnished Contractor Installed (OFCI) materials: Coordination and access shall be provided to a Separate Work Contractor and/or OWNER for delivery of OFCI materials. | \*\*\*\*calendar days after the effective date of the NTP | $Amounts as indicated in the Supplementary Conditions. |
| No. 30 | Substantial Completion: Shall be established per the general conditions. | \*\*\*\* calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |
| No. 31 | Contract Completion: Shall be established per the general conditions | \*\*\*\*calendar days after the effective date of the NTP. | $Amounts as indicated in the Supplementary Conditions. |

\*Milestone date to be determined by CONTRACTOR during development of the Construction Schedule and submitted to the OAR for approval.