



CITY OF FARMINGTON

800 Municipal Drive
Farmington, NM 87401-2663
(505) 599-1373
Fax (505) 599-1377
<http://www.fmtn.org>

IMMEDIATE ATTENTION

SNOW REMOVAL EQUIPMENT BUILDING FOR THE FOUR CORNERS REGIONAL AIRPORT PROJECT # FAA11 CONTRACT CONTROL #12-89025

ADDENDUM ONE

AUGUST 29, 2011

Notice to Bidders: The above referenced bid is hereby amended/clarified as follows:

The changes made are as follows:

Change Bid Opening Date from September 1, 2011 to **September 6, 2011 at 2:00 P.M.**

1. "Airport Rules and Regulations" flyer attached. This flyer was handed out at the pre-bid conference.
2. Add specifications sections under Division 01 as attached, which includes the revised Table of Contents.
3. Should the seismic performance be in accordance with: IBC 2006 or 2009 – Specs state '06, drawings state '09. Please verify the requirements.
ANSWER: All drawings and specifications shall meet the requirements of the 2009 International Building Codes and all applicable state codes.
4. Is the 10lbs (dead load?) needed since there are no sprinklers required?
Standard weights for similar buildings are 3lbs.
ANSWER: Provide 10lbs as indicated in the drawings and specifications.
5. Request to delete the AISC certification requirement (p131250-2, item 1.3 D 10 and p 131250-3, Item 1.4 B. 1.) Suggest stating "...must comply with AISC requirements..." Another comment "If this specification is waived, you open your-self up to metal building manufactures' that are the junk of the metal building industry. End result is a general contractor that gets stuck with a low bid fly-by night, cheap building with no warrantee and inferior materials. Certainly it is your right to build a less expensive building. If this spec goes away and no prier bid approvals are mandatory, then you will probably not receive bids from your listed manufactures.
ANSWER: Revise Section 131250 1.4.B.1 to add "or Certified under the International Accreditation Service (IAS) AC472 Accreditation Criteria".

PURCHASING



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6. Please verify what the purpose of the “Bituminous coatings” per Page 131250-7, Item 2.6.
ANSWER: Remove Item 2.6 of specification section 131250 in its entirety. No bituminous coating needed.
7. Can the soffit panels be trimmed out rather than actual soffit panels since they are only a 1'-0” overhang? Refer to Section 131250-10, item 2.12, Soffit panels.
ANSWER: Contractor may substitute the soffit panels of the roof overhang with metal trim products provided by the metal wall panel or roof panel manufacturer to create a water-tight assembly, to be approved by the architect during the submittal phase.
8. Does the metal building have to use tension washers? This is not typical for metal buildings and increases cost. Refer to Section 131250-5, item J.2. Tension Washers.
ANSWER: Per manufacturers design if required.
9. Are Prior approvals needed for all submittals of alternate products?
ANSWER: Prior approvals are not required unless specifically restricted by the specifications.
10. No information is provided on the type of plywood required for the interior.
ANSWER: Plywood wainscot shall be Georgia Pacific “Plytanium” plywood sheathing 19/32” thickness, southern yellow pine, exterior classification, and Flame spread rating 75-200 or equal (see attached cut sheet).
11. What type of paint is required for the plywood?
ANSWER: Paint with epoxy paint “Super Spec HP” by Benjamin Moore (see attached cut sheet) or equal.
12. Where does the building drain, is there retention or detention required? Is there sewer drainage?
ANSWER: The building site drains to the West. There are no retention or detention ponds. No sewer drainage is needed or provided. Drainage is as indicated on the drawings.
13. Quality control plan clarification Page SC-2, Item 4
Since the building is being constructed on City property, it will be the responsibility of the contractor to schedule the required inspections (permits) thru the State Building Inspection office. According to State law, the City of Farmington cannot inspect its own facilities during construction. Further, it is recommended the facility manufacturer perform inspections during construction, specifically the final inspection to ensure proper construction and quality control.
14. Concrete specification requires a mock up. Is this really needed and what are the requirements?
ANSWER: No mock up required. Contractor shall ensure that proper testing and inspections occur.



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15. **One paper copy of the full size drawings and 1 cd of the specs and drawings will be provided to the awarded contractor**
16. There might be a need to increase the timeframe for construction considering cooling temperatures and the asphalt requirement. Currently the contract has 120 days, could this be increased or allow for April paving time.
ANSWER The City will consider a request for extension by change order (form AF-15) at that time.
17. Page GP-41, Item 08-08, **Change** liquidated damages amount from \$1,000/calendar day to **\$500/calendar day**
18. Page CC-8, Section 6 – does a superintendent need to be onsite every day?
ANSWER: No. However, we would request an individual(s) be available, by phone, for “emergency” call-out 24-hours a day during the project. Reason for this is the fact that the airport is open to the public 24-hours a day.
19. Concrete sealant – What is required for this if cut joints are used rather than pour joints?
ANSWER: Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8inch wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks. See detail #3/S-001 for reinforcement requirements and use of sealant ASTM D1190.
20. There are existing asphalt millings on the site. Who is responsible for the millings?
ANSWER: The loose piles of asphalt millings shall be removed by the Owner prior to start of construction. NOTE TO CONTRACTORS: The existing site has asphalt millings semi-compacted over the site ranging from 6” to 12” in thickness. Contractor is responsible for preparing the site sub grade as indicated in the project documents including over excavation and infill. Contractor has option to use semi-compacted millings at their discretion. All sub grade and in-fill must meet the requirements of the project documents.
21. Is a fence required around the site?
City of Farmington response: If the project commences during a windy portion of the year, ie: spring, it is strongly recommended that a wind fence be put up in order to prevent construction debris and trash from being blown onto the airport grounds, runways and taxiways. Aircraft are very susceptible to damage caused by foreign object debris (FOD). A security fence is not required since the construction site is located in the secure portion of the airport. See also airfield safety plan and SWPP plan for other requirements.



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22. Question: "Plans and spec's do not give anchor bolt size or length. One note on plans suggests that anchor bolts have a minimum leg length of 4'. Foundation is not that deep. Another note tells us to have a minimum of 1' imbed depth." Perimeter foundation insulation requires a sheet metal cover, or install in a different way.
ANSWER: The 4'-0" length refers to the "U-bars" in foundation, not the anchor bolts. Required embed depth is per Manufactures design 1312.50, 1.2F. 1'-0" minimum per detail #3/S-101.
23. Spec's are calling out for parking bollard sleeves, plans show no sleeves. This seems like you want them removable? Are you sure you need these sleeves?
ANSWER: Removable sleeves are not required for bollards.
24. Who is responsible for the line extension and other fee's from FEUS?
ANSWER: Contractor is responsible for coordinating line extension and payment of fees as required for building construction.
25. Question: Who is responsible for Payment of the CID Building Permit?
ANSWER Please see specification section 01 1000 part 1.3.C
26. How much Earthwork under the building is required? - How much over ex, size, shape, quantity?
ANSWER: Please refer to structural drawings S-001 and soils report for project requirements.
27. Who receives DBE reporting and Certified Payrolls?
ANSWER: All DBE reporting will be sent to WHPacific, Inc. Certified payrolls will be sent to both WHPacific and the City of Farmington Purchasing. This will also be discussed at the pre-construction conference with the awarded contractor.
28. Buy American clarification:
ANSWER: All materials must comply with the Buy American requirement under the Program Guidance Letter 10-02 Page FAA-2 through FAA-7

A pre-bid conference was held at the Executive Conference Room, City of Farmington, at 1:30 P.M. on August 24, 2011. The purpose of this pre-bid was to answer any questions, as might arise, with respect to the requirements and execution of the proposal. Questions resolved at this meeting are included in the "Minutes" and will be kept in the bid file. Bidders interested in receiving the "minutes" can obtain a copy from the City's website at www.fmtn.org.

Receipt of this addendum shall be noted on the Invitation to Bid Form in Tab I – Bidding Forms and Requirements for the above referenced bid.

If your bid has already been submitted to this office, and this addendum will affect your bid quote, please contact this office and we will return your bid. Any bids that have been received, and are not requested to be returned will remain in this office unopened until **September 6, 2011 at 2:00 p.m.**

/s/ Jennifer Rowland

Jennifer Rowland

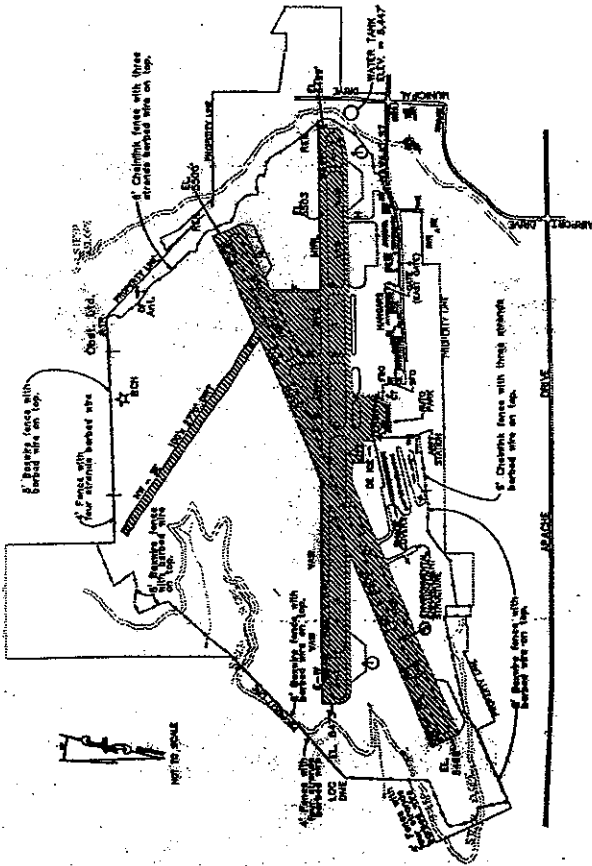
Buyer II

Phone: (505) 599-1386

Fax : (505) 599-1377

Email: jlrowland@fmtn.org

Restricted Areas Movement Area and Air Carrier Ramp



The Airport Restricted Areas (shaded area) include the Movement Area (all runways and taxiways) and the Air Carrier Ramp adjacent to and north of the terminal building as posted with signs and

FARMINGTON CITY CODE CHAPTER 3 ARTICLE 1. IN GENERAL

Sec. 3-1-1. Purpose of airport.

The Four Corners Regional Airport-Farmington (FMN) shall be conducted as a terminal facility for the promotion and accommodation of air commerce and shall be operated as a public air terminal without discrimination against any person because of race, color, creed, age, sex, religious or political affiliation or national origin. (Code 1969, § 20-1)

State law reference(s)-Authority to purchase, establish, construct, maintain and operate an airport, NMSA 1978, § 3-39-4.

Sec. 3-1-2. Appointment and authority of airport manager.

(a) The operation of the airport shall be under the direction of the airport manager who shall be appointed by the city manager and who shall be a person professionally competent by experience and training to manage the airport.

(b) The airport manager is delegated authority to take reasonable steps for handling, policing and protecting the public while present at the airport, subject to review by the city manager. (Code 1969, § 20-4)

Cross reference(s)-Officers and employees, § 2-3-1 et seq.

Sec. 3-1-3. Penalty for violation.

It shall be unlawful for any person to violate this chapter. Any person convicted of violating this chapter shall be punished in the manner specified in section 1-1-10. (Code 1969, § 20-16)

Sec. 3-1-4. Hours of use.

The airport shall be open for public use at all hours of the day, subject to reasonable restrictions for security, inclement weather, conditions of the landing area and other reasonable restraints. (Code 1969, § 20-2)

Sec. 3-1-5. Obedience to regulations.

The use or occupancy of the airport or any of its facilities in any manner creates an obligation on the part of the user to obey all lawful regulations promulgated with reference thereto. (Code 1969, § 20-3)

Sec. 3-1-6. Airport rules generally.

At the airport, no person shall:

- (1) Solicit funds, aims or fares at the airport for any purpose unless a permit has been issued by the city manager.
- (2) Post, distribute or display signs, advertising circulars, printed or written matter on the airport unless a permit has been received from the city manager.
- (3) Take any still, motion or sound pictures on the airport for commercial purposes unless a permit has been received from the city manager.
- (4) Commence any construction, improvement or remodeling activity at or upon the airport without prior approval of the city manager.
- (5) Fail to report as soon as possible any damage, injury or destruction caused by any such person to any property on the airport, including real property, personal property, improvements, fixtures or equipment owned or controlled by the city or owned or controlled by any other person or governmental agency and used in connection with the landing, takeoff, control or safety of aircraft. (Code 1969, § 20-12)

Sec. 3-1-7. Sanitation.

At the airport, no person shall:

- (1) Release, deposit, blow or spread any bodily discharge on the floor, wall, partition, furniture or any part of a public toilet, comfort station, terminal building, hangar or other building or place on the airport,

other than directly into a fixture provided for that purpose.

(2) Place any foreign object in any plumbing fixture of a public toilet, comfort station, terminal building, hangar or other building on the airport.

(3) Dispose of any sewage, garbage, refuse, paper or other material at the airport, except in a container provided for such purpose. (Code 1969, § 20-13)

Cross reference(s)-Solid waste management, ch. 23; utilities, ch. 28.

Sec. 3-1-8. Unauthorized use of property.

No person shall take or use any aircraft or any part or accessory thereof or any tools or other equipment owned or controlled by any other person or stored or otherwise left at the airport without the consent of the owner or operator thereof or other satisfactory evidence of his right to do so. (Code 1969, § 20-14)

Sec. 3-1-9. Unauthorized entrance into restricted areas.

No person shall enter upon the field area, the control tower area, the airline service area, the airport utilities service area, the fire department control area or any other area of the airport which has been designated and posted as restricted to the public unless such person has been duly authorized to enter such area or place. (Code 1969, § 20-15)

ARTICLE 3. AIRCRAFT

Sec. 3-3-1. Operator's conduct when tower in operation.

No person shall, while the federal aviation tower located at the Four Corners Regional Airport is in operation:

- (1) Navigate any aircraft over, land upon, take off from or service, repair or maintain any aircraft other than in conformity with the rules and regulations of the Federal Aviation Administration of the United States.
- (2) Fail to taxi while under full control and at reasonable speeds while the aircraft is being operated. Following a landing or prior to takeoff and while taxiing, every pilot shall ensure that there is no danger of collision with other aircraft.
- (3) Taxi any aircraft not equipped with adequate brakes on any ramp or apron at any speed unless an attendant is at all times beside one wing.
- (4) Taxi any aircraft on any apron or ramp so as to endanger any passengers entering or leaving any aircraft.
- (5) Taxi any aircraft upon a runway, except:
 - a. As a necessary part of taking off or landing;
 - b. When given permission by the tower; and
 - c. When crossing a runway or runway intersection.
- (6) Taxi any aircraft at night or after sunset unless the navigation lights and at least one landing light, if the aircraft is equipped with landing lights, are turned on and burning.
- (7) Leave any aircraft standing or parked outside of an area designated for parking of aircraft at night or after sunset unless the navigation lights and at least one landing light, if the aircraft is equipped with landing lights, are turned on and burning. If such aircraft lighting is not possible, proper warning lights must immediately be lit and placed near the aircraft.
- (8) Take off or land any aircraft, except in an emergency or accident when directed by the tower, on any apron, ramp, taxiway or any other place other than a runway. This subsection shall not apply to the takeoff and landing of a helicopter or other aircraft that takes off or lands vertically.
- (9) Take off or land any helicopter or other aircraft that takes off or lands vertically except at places designated for such takeoffs or landings by the airport manager or the tower.
- (10) Leave any disabled or wrecked aircraft on any taxiway, runway or other place, other than a designated parking area, overnight or for any unreasonable period of time, unless specific prior authority has been granted by the airport manager and the aircraft is guarded and warning

lights are placed around it.

- (11) Park any aircraft or vehicle within 25 feet of any fire hydrant.
- (12) Leave any aircraft unattended on any ramp, apron, taxiway, runway or area other than a designated aircraft parking area.
- (13) Fail to securely tie down any unattended aircraft.
- (14) Run up or operate at high revolutions per minute (rpm)'s aircraft engine near any passenger terminal building, hangar or other building, other than in areas designated by the airport manager and with appropriate brakes, chocks or safety devices in use.
- (15) Park any aircraft on any apron or part thereof which is designated for the parking of aircraft.
- (16) Park any aircraft in any fire lane where fire lanes have been designated.
- (17) Take off or land any aircraft at the airport when such aircraft is not equipped with two-way radio equipment consisting of a function radio transmitter and receiver capable of conducting two-way communications with the airport within a five-mile radius of the tower and radio frequencies used by the control tower with such equipment in use and appropriately monitored, unless permission to do so has been obtained by the airport tower when such tower is in operation or from the airport manager if the tower is not in operation.
- (18) Take off or land any aircraft at the airport having a gross weight exceeding that as follows:

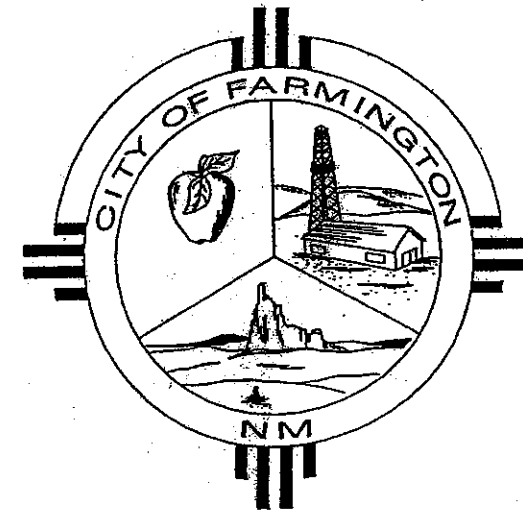
Runway	Single Wheel (pounds)	Dual Wheels (pounds)	Twin Tandem (pounds)
7/25	57,000	80,000	125,000
5/23	40,000	60,000	100,000

- (19) Fail to follow directions or procedures given or required by tower or the airport manager in an aircraft emergency or accident, a bomb threat, a fire or other calamity or emergency.
- (20) Act as a crew member of any aircraft while:
 - a. Under the influence of intoxicating liquor or beverage.
 - b. Using any drug that affects such person's faculties in a way contrary to safety.
- (21) Allow any person, who is obviously under the influence of intoxicating beverages or drugs, to board or be carried onto any aircraft except in an emergency or when such person is a medical patient under proper care.
- (22) Move or operate any aircraft in a careless or reckless manner.
- (23) Run the engine of a parked aircraft in a manner that damages any other property or aircraft or that blows paper, dirt or other material across taxiways or runways so as to endanger the safety of persons or property.
- (24) Take off over any hangar or other building.
- (25) Start or taxi any aircraft in any place where the exhaust engine blast is likely to cause injury to persons or property. If the aircraft cannot be started or taxied without violating this subsection, the operator shall have it towed to a location where such operations can be done safely.
- (26) Operate an aircraft so as to use any passenger gate other than that assigned by the airport manager.
- (27) Park any aircraft in such a manner or place as to block or prevent any other parked aircraft from free and unobstructed movement if it becomes necessary to move any one parked aircraft due to an emergency. The intent of this subsection is to ensure that only one parked aircraft may be easily moved away from its position without first moving other parked aircraft. This subsection shall not apply to the parking of aircraft in an aircraft hangar building. (Code 1969, § 20-7)

Sec. 3-3-2. Operator's conduct when tower not in operation.

(a) All aircraft operated from or upon the Four Corners Regional Airport when the tower is not in operation at the airport shall be operated

Four Corners Regional Airport



AIRPORT RULES AND REGULATIONS

City of Farmington

- (2) Refueling vehicles and towing tugs must cross aircraft areas for loading purposes only. Prior to crossing, the operator must obtain clearance from the control tower. Operational, agricultural and maintenance equipment operators not engaged in working on runway property will keep the control tower informed of the general area in which the equipment is working.
- (3) Any vehicle crossing any taxiway or runway and not equipped with a two-way radio and in direct contact with the control tower shall not be operated within the landing area until prior permission is received from the tower, and then the operator must observe all light signals from the tower.

(f) The installation of two-way radios does not permit the operation of vehicles on the airport without prior permission from the airport manager and the control tower.

(g) Any vehicle that has been permitted to operate on the airport will not proceed closer than 200 feet from the edge of the runways or across any of the runways prior to being cleared by the tower. It is the responsibility of all vehicle operators to be familiar with the standard airport light signals, regardless of whether or not the vehicle is radio equipped.

(Code 1969, § 20-10)

Sec. 3-4-3. Limitations of article.

No action taken under the authority of this article shall be interpreted as dedicating land at the airport as a public street, road or highway.

(Code 1969, § 20-11)

FARMINGTON CITY CODE CHAPTER 12. ARTICLE 5

Sec. 12-5-14. Airport and aircraft operations.

(a) The intent and purpose of this section is to regulate the noise levels produced in the testing, run-up, maintenance and repairing of aircraft engines and aircraft in the nighttime hours and to abate the nuisance to the residents of the city created by such noise.

(b) It is unlawful for any person to operate, run-up, test, maintain or repair any vehicle, aircraft, engine or aircraft engine that generates noise which may be heard beyond the confines of the Four Corners Regional Airport between the hours of 10:00 p.m. and 6:00 a.m., local time, except that:

- (1) Vehicles, aircraft, engines, or aircraft engines may be tested, run-up, maintained or repaired in the environmental enhancement structure at the Four Corners Regional Airport according to rules promulgated and established by the city manager which have been approved by the city council.
- (2) Aircraft may be operated pursuant to applicable Federal Aviation Administration regulations for the purpose of normal takeoff and landing which may include temporary run-up of aircraft engines in areas designated by the city as part of the normal safety check prior to aircraft takeoff.

(c) Each violation of this section that exceeds two minutes shall be deemed to be a separate violation of this section.

(Code 1969, § 20A-12)

Cross reference(s)—Airport, ch. 3.

AIRCRAFT FUELING

(Please refer to Section F 2. of Airport Certification Manual. Copies available from Airport Administration.)

AIRPORT BUSINESSES

(Please refer to Article 2 of Chapter 3 of the Farmington City Code and Resolution 78-30, as amended thru 7/97. Copies available from Airport Administration.)

at all times by two-way radio to determine the location of other airport traffic. Aircraft operators shall announce, on the tower frequency or appropriate frequency designated by the airport manager, aircraft position at takeoff, position downwind and position of final approach to landing, even though the tower is not in operation to alert other aircraft to traffic.

- (2) Aircraft awaiting takeoff shall park so as to have a direct view of aircraft approaching for landing and shall park at least 100 feet from the runway in use or short of markings placed upon the runway to indicate the area to be used for awaiting takeoff.

(b) Taxiing shall conform to taxi charts that are on file in the office of the airport manager and the city clerk.

(c) All aircraft takeoffs and landings by the pilot shall be in the direction indicated by the airport wind direction indicator.

(d) No turns shall be made after takeoff until the airport boundary has been reached and the aircraft has attained an altitude of at least 400 feet and it has been ascertained that there will be no danger of collision with other aircraft.

(e) Aircraft intending to remain in the traffic pattern shall continue to climb to traffic pattern altitude after the first 90-degree turn. The direction of aerial traffic, when the tower is not operating, around the outside of the Four Corners Regional Airport shall be counterclockwise at or below 1,500 feet above the surface of the airport and within three-mile radius of the airport.

(f) The pilot of any transport category aircraft and other aircraft of similar size shall enter the traffic pattern, when the airport tower is not operating, at 1,500 feet above the surface of the airport or at such higher altitude appropriate for high speed aircraft and shall maintain that altitude until in position to begin descent for landing.

(g) Any pilot of smaller aircraft, when the tower is not operating, shall enter the traffic pattern at an altitude of 1,000 feet above the surface when at least three miles from the airport and shall maintain that altitude until in position to begin descent for landing.

(Code 1969, § 20-8)

ARTICLE 4. MOTOR VEHICLES*

*Cross reference(s)—Traffic and vehicles, ch. 25.

3-4-1. Operation generally.

At the airport, no person shall:

- (1) Operate any motor vehicle or mobile equipment, other than aircraft, on any airport apron, ramp, taxiway, runway or any other part of the landing field:
 - a. Except upon authority of the airport manager; and
 - b. Unless the operator of such vehicle or equipment has airport business thereon or, for a city employee, has been assigned to duty by his employer in such areas with approval of the airport manager;
 - c. Unless the vehicle or equipment is covered by insurance in an amount equal to that specified for city vehicles.
- (2) Operate any motor vehicle or mobile equipment on the landing area unless the required two-way radio equipment is turned on and monitored, is in good working order and is capable of communicating with the airport control tower at all times unless specific permission of the airport manager or of the tower to operate on the landing area without such equipment has been obtained.
- (3) Fail to yield the right-of-way to any aircraft or pedestrian when operating any motor vehicle or mobile equipment on, including entering or leaving, any ramp, apron, taxiway or landing area or other place on the airport. Aircraft moving or being moved on an apron, ramp, taxiway or the landing area shall always have right-of-way over all motor vehicles or mobile equipment.

unless such vehicle or equipment has lights turned on which are clearly visible from the front and rear.

- (5) Drive or operate any motor vehicle or mobile equipment in such a manner that it is not under complete and safe control at all times.
- (6) Drive any vehicle or walk or be carried to or be present on any apron, taxiway, runway or any part of the landing field for the purpose of being a spectator, sightseer or for the purpose of taking pictures unless specific permission has been obtained from the airport manager. Permission shall not be granted unless such activities can be conducted in a manner which will not lessen or impair the safety of aircraft or the operator or occupants thereof.
- (7) Park any motor vehicle for any purpose in any place on the airport which has not been specifically established for motor vehicle parking and which has not been marked or posted by signs, lines or other means identified for parking.
- (8) Abandon any motor vehicle on the airport; fail to pay any lawfully established motor vehicle parking fee; or park any motor vehicle so as to obstruct any airport driveway, roadway, parking area, pedestrian way or grassed area.
- (9) Fail to effectively brake any motor vehicle or motorized or nonmotorized equipment when such vehicle or equipment is unattended or an operator is not at the controls, if any.

(Code 1969, § 20-9)

Sec. 3-4-2. Traffic and parking.

(a) The airport manager shall designate airport areas generally open to motor vehicle traffic and shall designate areas for vehicular parking. Unless otherwise posted, the traffic rules and regulations set forth in Chapter 25 pertaining to motor vehicles shall apply to areas designated for motor vehicular traffic and parking by the airport manager and, if not in conflict with this chapter, shall also apply to operation of motor vehicles on the airport.

(b) All authorized vehicles traversing traffic movement areas, other than service areas (i.e. ramps, fueling areas, passenger loading areas, etc.) of the air operations area proper without two-way radio shall display and fly on the rear of the vehicle a checkered flag of a size not less than three feet square. Two-way radio communications between the tower and all ground vehicles operating on usable runways and taxiways will be maintained at all times. Escort vehicles with two-way communications capability with the tower are to accompany maintenance or service vehicles without two-way radio communications capability, when operating on traffic movement areas. Before crossing any runway, all vehicles will first obtain permission to cross such runway from the control tower by radio. Upon receiving clearance, the driver will ensure by personal observation that no aircraft is approaching his position. Vehicles that do not obtain proper clearance will be reported to the airport manager by the control tower.

(c) During the hours of darkness, no vehicle shall cross a lighted runway unless specific clearance is obtained from the control tower, either by radio communications or light-gun signal. The operator of a vehicle without a radio will first call the control tower by phone. To obtain recognition by the tower while at a taxiway holding line, the driver will flash the vehicle headlights toward the tower and proceed across only upon a light signal from the tower.

(d) Emergency conditions existing at any time on the airport will not mitigate or cancel the regulations of this section. During such conditions, the driver of any vehicle will make certain that he does not move his vehicle in any direction unless specifically cleared by the control tower to do so.

(e) All vehicles operating in the airport operations area must be equipped with two-way radios and be in continuous communication with the control tower, with the exception of the following equipment, which will be accompanied by an escort vehicle when operating or working on

unless such vehicle or equipment has lights turned on which are clearly visible from the front and rear.

**FOUR CORNERS REGIONAL AIRPORT
SNOW REMOVAL EQUIPMENT BUILDING**

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SECTION 233300 – AIR DUCT ACCESSORIES

SECTION 233423 – HVAC POWER VENTILATORS

SECTION 233700 – AIR OUTLETS AND INLETS

SECTION 238323 – INFRARED RADIANT-HEATING ELECTRIC

DIVISION 26 – ELECTRICAL

SECTION 260519 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

SECTION 260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

SECTION 260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

SECTION 260533 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

SECTION 260544 - SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING

SECTION 260553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

SECTION 262416 - PANELBOARDS

SECTION 262726 - WIRING DEVICES

SECTION 265100 - INTERIOR LIGHTING

SECTION 265600 - EXTERIOR LIGHTING

DIVISION 27 – COMMUNICATIONS – NOT USED

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY – NOT USED

SECTION 31 – EARTHWORK

SECTION 311000 - SITE CLEARING

SECTION 312000 - EARTH MOVING

SECTION 32 – EXTERIOR IMPROVEMENTS

SECTION 321216 - ASPHALT PAVING

SECTION 321313 - CONCRETE PAVING

SECTION 321373 - CONCRETE PAVING JOINT SEALANTS

SECTION 33 – UTILITIES

SECTION 334100 - STORM UTILITY DRAINAGE PIPING

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SECTION 011000 -SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. General description of Work and Contractor's duties.
2. Work by others.
3. Work sequence.
4. Contractor use of site.
5. Definitions.
6. Abbreviations.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

A. General Overview and Scope of Work

- a. Complete and all-inclusive site work including; site grading, utilities, building pad over-excavation, and construction of a vehicle drive pad.
- b. A 4,723 square foot single story pre-engineered metal building consisting of concrete footings and concrete slab on-grade. The building will be an open warehouse. The building envelope shall consist of steel metal panels with insulation blankets. The roofing system consists of steel standing seam metal panels with insulation blankets.
- c. The interior will consist of the manufacturers pre-engineered metal building exposed with painted plywood finish up to 8' A.F.F. No additional finishes will be required.

1.3 CONTRACTOR'S DUTIES

- A. Except as noted, provide and pay for all labor, materials, and equipment.
- B. Pay required sales, gross receipts, and other taxes. Owner will pay Contractor applicable New Mexico gross receipts tax including local option tax and any increase in tax becoming effective after Contract date.
- C. Secure and pay for permits (including plan checking fees), fees, and licenses necessary for execution of Work as applicable at time of receipt of bids or as otherwise required in other sections of the Specifications.
- D. Give required notices.
- E. Comply with codes, ordinances, regulations, and other legal requirements of public authorities which bear on performance of Work.

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- F. Request required inspections from public authorities, correct any noted deficiencies, and obtain certifications of satisfactory inspection. Deliver certificates to Owner in accordance with Section 017800 - Closeout Submittals.
- G. Contractor's responsibilities:
 - 1. Participate in coordination of work with other installers, including Owner's own forces and separate contractors.
 - 2. Inform Owner of required delivery dates for Owner supplied products and installation dates for work by others.
 - 3. Review shop drawings, product data, and installation instructions; coordinate installation with other work; and provide blocking and other preparation required for Owner supplied products.
 - 4. Unload Owner-supplied products required to be installed by Contractor at site and inspect for completeness and damage. Assemble, finish and install products as indicated by Contract Documents.
 - 5. Repair or replace items damaged after receipt.

1.4 CONTRACTOR USE OF SITE

- A. Limit use of premises to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Limits: Confine constructions operations to the general area surrounding the new construction as indicated on the drawings.
 - 2. Owner Occupancy: Allow for Owner occupancy of Project site and use by the public.
 - 3. Driveways and Entrances: Keep driveways and loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- B. Contractor will have restricted use of site to allow Owner to conduct normal operations.
 - 1. Access to site by trucks, equipment, and automobiles: Limited to route and entrances designated in Section 015000 - Temporary Facilities and Controls and the Airfield Safety Drawings. Schedule construction traffic and material deliveries to site during time periods coordinated in advance with Owner.
 - 2. On-site construction vehicle and equipment traffic shall be limited to pathways, areas and time periods approved in advance by Owner to ensure safe site conditions.
 - 3. Parking: Contractor and work force may use designated portions of existing parking

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- lots. Do not interfere with Owner's parking requirements.
4. Unless otherwise agreed to in advance by Owner, construction shall be performed only during these time periods:
 - a. Normal weekday work hours.
 5. Construction activities shall be limited to areas of actual construction. Unless otherwise agreed to in advance by Owner, restrict workmen from entering adjacent restricted areas.
- C. Contractor shall make arrangements with Owner to secure any keys necessary for access to existing building and site areas so that the work can be performed. The Contractor assumes sole responsibility for the security and use of keys obtained from the Owner and shall not reproduce them nor lend them out during the progress of the work.
- D. Comply with Owner's procedures for individual visual identification of Contractor's workforce on site and in occupied areas. If identification badges are required make sure that they are worn at all times on site during the work.
- E. Do not allow dust and debris to blow onto adjacent or restricted areas.
- F. Provide 72 hours notice to Owner for any work that may interrupt or otherwise impact the facility's normal operations including noisy and dust or odor producing activities.
- G. Emergency exits shall be maintained during construction in a manner satisfactory to the Architect, Owner and local officials having jurisdiction over emergency procedures and fire safety at the site. Notify Architect and Owner of any proposed modifications to emergency exits in advance of making changes due to construction.
- H. Utility outages and shutdowns:
1. Maximum allowable duration: 4 hours or as approved in advance by Owner.
 2. Coordinate all utility shutdowns which affect the operation of the site and neighbors with the Architect, Owner and any entity having jurisdiction over or ownership of impacted public or private utility infrastructure.
 3. Protect facilities and equipment from damage due to shutdown and startup of utility.
 4. Schedule outages during off hours to facilitate Owner's operations.
 5. Submit written request for outage to Architect 72 hours before anticipated outage. Outage must be approved in writing by Design Professional.
- I. Owner reserves right to place and install equipment and furnishings in completed areas of building prior to Substantial Completion, provided such occupancy does not interfere with construction. Placing of equipment and furnishings does not constitute Substantial Completion of any portion of the Work. An inspection by Contractor, Owner and Architect shall be made prior to such limited occupancy solely for the purpose of establishing the condition of finishes

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and other items that might be damaged or obscured by placement and installation of Owner's items.

1.5 IDENTIFICATION OF ENTITIES

A. Where the term "Design Professional" is used in the Contract Documents it is defined as the authorized representative designated by Owner and acting within the scope of the particular duties entrusted to such representative.

6. Design Professional: Wayne Frank, WHPacific Inc.

7. Address:
6501 Americas Parkway, NE
Albuquerque, NM 87110

8. Telephone number: 505-247-0294, 505-348-5181

9. FAX number: 505-242-4845

B. Where the term "Owner" is used in the Contract Documents, it is defined as the Four Corners Municipal Airport Manager.

1. Address: 800 Municipal Drive

2. Telephone number: 505-599-1462

3. FAX number: 505-599-1397

1.6 DEFINITIONS

A. Refer to Document 007000 - General Conditions, Article 1.1 for definitions of terms used within Contract Documents.

B. Additional terms used within Specifications but not defined by Document 007000 - General Conditions shall have the following definitions:

1. Products: Materials, manufactured items, components, fixtures, machinery, equipment, or systems forming the Work but not including machinery, equipment, and other aids used for preparing, fabricating, conveying, and installing the Work.

2. Supply: Furnish, deliver, and unload at Project site. Same meaning as furnish.

3. Furnish: Supply, deliver, and unload at Project site. Same meaning as supply.

4. Install: Operations at Project site to incorporate products into the Work such as unpacking, assembling, anchoring, erecting, applying, placing, curing, finishing, and preparing for use.

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5. Provide: To supply or furnish a product and to also install it.
6. Execution: Operations at Project site including preparatory actions, installing, and post-installation adjusting, testing, cleaning, and demonstrating.

1.7 ABBREVIATIONS

- A. Abbreviations used within the Specifications are defined as follows. For abbreviations not listed, contact Architect for definitions.

ASTM	- American Society for Testing and Materials.
ANSI	- American National Standards Institute.
CF	- Cubic feet.
CFM	- Cubic feet per minute.
F	- Fahrenheit.
LF	- Linear feet.
LB	- Pound.
MPH	- Miles per hour.
SF	- Square feet.
SY	- Square yards.
PSI	- pounds per square inch.
PSF	- Pounds per square foot.
RPM	- Revolutions per minute.
IBC	- International Building Code as published by International Code Council.
UL	- Underwriters Laboratory .

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not used.

END OF SECTION

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SECTION 012900 - PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes procedures for:

1. Schedule of Values.
2. Applications for Payment.
3. Contract modifications.
4. Unit prices, if any.

1.2 SCHEDULE OF VALUES

A. Procedures:

1. Submit for review by Design Professional 3 copies of preliminary Schedule of Values within 7 days after date of Agreement Between Owner and Contractor.
2. Revise to address review comments and resubmit.
3. Final Schedule of Values: Revise Schedule to incorporate review comments and submit 3 copies at least 7 days before submittal of initial Application for Payment.
4. During construction, revise and resubmit 3 copies of Schedule of Values to incorporate approved Change Orders.

B. Format: Typed schedule on standard form or electronic media printout approved by Design Professional. Sum of all values shall equal total Contract Sum.

C. Content: Use Project Manual Table of Contents as basis for line items. Cross reference line items with number and title of corresponding specification section. Provide sufficient detail to allow computation of values for progress payments during construction.

1. Include within each line item a directly proportional amount of Contractor's overhead and profit.
2. Provide separate line items for materials and for installation when materials will be stored on site prior to installation such that cost of stored materials will be included separately on an Application for Payment.
3. Provide separate line items for:
 - a. Each allowance included in Contract Sum.

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- b. Each additive alternate selected by Owner.
- c. Each Contract modification.
- d. For bonds.
- e. Insurance.
- f. Documentation and Closeout
- g. New Mexico gross receipts tax.

1.3 APPLICATIONS FOR PAYMENT

- A. Format: AIA Form G702 - Application and Certificate for Payment and AIA G703 or alternative form approved by Design Professional - Continuation Sheet or Contractor's electronic media driven form as approved by Design Professional.
- B. Payment period: Monthly.
- C. Preparation:
 - 1. Use Schedule of Values for listing items in Applications for Payment.
 - 2. Complete each entry on Application of Payment form. Incomplete forms will be returned without action.
 - 3. List each authorized Change Order as a separate line item and in same format as other line items.
 - 4. Provide subtotals and total.
 - 5. Indicate total percentage of all work completed as of the date of the Application.
 - 6. Applications shall be signed and dated by authorized officer of Contractor. Signature shall be notarized.
- D. Include with Application for Payment appropriate invoices for materials stored on site.
- E. At request of Design Professional, provide substantiating data justifying dollar amounts in question.
- F. Submittal: Submit 3 executed copies of each Application for Payment.
 - 1. Initial Application for Payment: Submit after the following have been submitted and accepted by Design Professional and Owner.
 - a. Certificates of insurance required by the Contract.

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- b. Copy of building permit.
 - c. Schedule of Values as required by Paragraph 1.2.A.
 - d. Progress schedule as required by Section 013100 - Project Management and Coordination.
 - e. Submittal schedule as required by Section 013300 - Submittal Procedures.
2. Subsequent Applications for Payment:
- a. Submit with Application of Payment:
 - (1) Include the Updated Progress Schedule specified in Section 013100 - Project Management and Coordination.
 - (2) Updated Submittal Schedule specified in Section 013300 - Submittal Procedures.
 - b. Prior to acceptance of each Application for Payment, Design Professional will review Project Record Drawings specified in Section 017800 - Closeout Submittals to ensure that recorded data is current.
3. Application of Payment at Substantial Completion: Submit after issuance of Certificate of Substantial Completion and in accordance with Section 017700 - Closeout Procedures.
4. Final Application for Payment: Submit after completion of final cleaning, final inspection, final submittals, and other final completion procedures specified in Section 017700 - Closeout Procedures.

1.4 CONTRACT MODIFICATION PROCEDURES

- A. Changes in the Work shall be determined and Change Orders executed in accordance with the Contract.
- 1. Minor changes: Design Professional will advise of minor changes in Work not involving adjustment to Contract Sum or Time by issuing supplemental instructions on AIA Form G710.
 - 2. Design Professional requested Change Order: Design Professional may issue a Modification/Change Request (MCR) with detailed description of proposed change and supplementary drawings and specifications as required.
 - 3. Design Professional will prepare Change Orders to adjust Contract Sum for:
 - a. Differences in costs between products purchased and cash allowances stated in Section 012100 – Allowances, if applicable.

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- d. Invoices for products, equipment, and subcontracts.
- D. Revision of documents: After authorization of Change Order revise:
- a. Schedule of Values and Application for Payment forms to record each Change Order as a separate line item and adjust Contract Sum and Time.
 - b. Progress Schedules to reflect changes in Contract Time and to adjust times for other work items affected by changes. Resubmit revised schedule.
 - c. Record changes in Project Record Documents.

PART 2 - PRODUCTS

Not used.

PART 3 – EXECUTION

Not used.

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SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. General requirements for coordination of Work.
2. Field engineering.
3. Construction Coordination
4. Requirements for participation in and administration of:
 - a. Pre-construction conference.
 - b. Progress meetings.
 - c. Pre-installation conferences.
5. Progress schedule.
6. Construction photographs.

B. Related documents and sections:

1. Section 011000 – Summary.

1.2 SUBMITTALS

A. Provide in accordance with Section 013300 - Submittal Procedures:

1. Coordination drawings:
 - a. Provide where coordination is critical for installation of components fabricated off site and where space is limited and maximum utilization of space is required.
 - b. Show relationship and integration of components and construction entities, required installation sequence, dimensions, and tolerances.

B. Staff assignment list:

1. Prior to Pre-Construction Conference, provide to Design Professional a list of Contractor's principal staff assignments for Project. Indicate names, duties and responsibilities, addresses, emergency contact information and telephone numbers. Include resume of proposed Project Superintendent showing prior experience as superintendent on projects of similar size and scope. Naming more than one Project Superintendent to be in charge depending which is present at the site will not be acceptable. Design Professional shall be informed in writing prior to any proposed change in Project Superintendent during the progress of the Work.
2. Distribute contact information and post in field office coordination.

1.3 GENERAL COORDINATION REQUIREMENTS

- A. Scheduling: Coordinate scheduling, submittals and work of various specification sections to ensure efficient and orderly sequence of installation of interdependent construction elements. Ensure that work of one specification section is not installed in such a manner as to limit,

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preclude, or restrict work of another section.

- B. Coordinate completion and clean up of work of separate specification sections in preparation for final inspection specified in Section 017700 - Closeout Procedures.
- C. After acceptance of Work, coordinate access to facility for required maintenance, monitoring, adjusting, and correcting deficiencies to manner to minimize disruption of Owner's activities.
- D. Coordinate with Owner regarding work of Owner's forces and separate contractors. Ensure coordination of such work with Project Schedule.

1.4 FIELD ENGINEERING

- A. Existing control datum for field engineering is indicated on Drawings.
- B. Locate or establish survey control and reference points prior to starting site construction. Protect points during construction and record locations with horizontal and vertical data on Project Record Documents in accordance with Section 017800 - Closeout Submittals.
- C. Prior to start of construction, verify location of control points and layout information on Drawings relative to property, setback, and easement lines.
- D. Provide competent field engineering services. Establish elevations, lines, and levels utilizing recognized engineering survey practices. Periodically verify layouts.
- E. Promptly replace dislocated control and reference points based on original survey control.

1.5 CONSTRUCTION COORDINATION

- A. Contractor shall at all times be present at the Work in person, or represented by a competent superintendent who shall supervise and direct the Work, and shall be authorized by the Contractor to receive and fulfill instructions from the Design Professional and/or Owner.
- B. Contractor shall, at all times during working hours, be represented in all matters pertaining to the project by one, and only one, fully competent and experienced general superintendent. Instructions and information given by the Design Professional and/or Owner to the Contractor's superintendent shall be considered as having been given to the Contractor.
- C. Before any Work is done at the job site, Contractor shall give written notice to the Design Professional and Owner stating who the Contractor's superintendent will be, giving his home address and telephone number. The Design Professional and Owner shall be informed in writing prior to any change of general superintendent. A statement naming more than one representative at a time to be in charge and depending upon which is present at the time will not be acceptable.
- D. Verify that characteristics of elements of interrelated operating equipment are compatible and coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

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- E. With regards to pre-existing improvements or work in place which is not part of the Work under the Agreement, Contractor shall make proper connections with existing services, utilities, pavements and grades as indicated and provide all necessary materials, equipment, anchors, fastenings, etc. required for connections

1.6 PRE-CONSTRUCTION CONFERENCE

- A. Conference will be held after execution of the Agreement and prior to issuance of Notice To Proceed. Time and location will be coordinated with Owner and Design Professional. Meet at the site or other location convenient to all parties.
- B. Attendance: Owner or designated representative, Design Professional, consultants, Contractor, and major subcontractors and suppliers.
- C. Agenda Topics:
 - 1. Airfield Safety Requirements
 - 2. Distribution of Contract Documents.
 - 3. Designation and description of roles of responsible personnel representing Owner, Contractor, and Design Professional.
 - 4. Status of permits and Notice to Proceed.
 - 5. Use of premises by Contractor and Owner, Owner's occupancy requirements, work hours.
 - 6. Construction schedule, work sequence, and delivery priorities.
 - 7. Weekly job meeting schedule.
 - 8. Owner's right to salvage.
 - 9. Presentation and discussion of site mobilization plan specified in Section 015000 - Temporary Facilities and Controls.
 - 10. Construction facilities, controls, and temporary utilities.
 - 11. Procedures for processing submittals, applications for payment, substitution requests, field decisions and communications, and contract modifications.
 - 12. Testing and Inspections.
 - 13. Wage rates.
 - 14. Security, Contractor's use of keys, safety, first aid, and housekeeping.
 - 15. Procedures for spotting of utility lines.
 - 16. Procedures for maintaining project record documents.
 - 17. Requirements for start up of equipment.
 - 18. Testing and inspection procedures.
 - 19. Inspection and acceptance of equipment put into service during construction.
 - 20. Contract closeout procedures.
 - 21. Other pertinent items.
 - 22. Other FAA required Items

1.7 PROGRESS MEETINGS

- A. Schedule and administer construction progress meetings throughout progress of Work. Meetings shall be held bi-weekly or more frequently as required. Location of meetings to be on site or other location approved by Design Professional.

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- B. Make arrangements for meetings, prepare agenda, and distribute notice of meetings to participants, Design Professional, and Owner 3 days in advance of meeting.
- C. Preside at meetings. Record minutes and distribute copies within 3 days after meeting to participants, entities affected by meeting decisions, Design Professional, and Owner.
- D. Attendance: Contractor, job superintendent, and subcontractors and suppliers as appropriate to agenda. Owner representative, Design Professional, and consultants may attend as appropriate.
- E. Prepare agenda to cover topics pertinent to continued progress and successful completion of Work. Suggested topics:
 - 1. Review previous meeting minutes.
 - 2. Review schedules and progress, identify impediments, and determine measures to maintain schedules.
 - 3. Review field observations, problems, and decisions.
 - 4. Review status of submittals.
 - 5. Review off-site fabrication and delivery schedules.
 - 6. Quality control.
 - 7. Review proposed MCRs and pending proposals from Contractor including impact on schedule.

1.8 PRE-INSTALLATION CONFERENCES

- A. When required by an individual specification section, convene a pre-installation conference at site.
- B. Require attendance of entities directly concerned with item of work.
- C. Notify Design Professional 4 days in advance of meeting.
- D. Prepare agenda and preside at conference. Record minutes, and distribute copies within 3 days to participants and Design Professional.
- E. At meeting, review conditions of installation, preparation and installation procedures, and coordination with related work.

1.9 PROGRESS SCHEDULE

- A. Format: Horizontal bar chart:
 - 1. Approximate sheet size: 17 by 28 inches.
 - 2. Provide separate bar for each major item of Work. Arrange in sequence and identify bars with specification section numbers and titles from Project Manual Table of Contents.
 - 3. Horizontal scale: Time with first work day of each month identified. Adjust scale to show entire construction period plus extensions.
 - 4. Vertical spacing: Allow space for notations and revisions.

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B. Show complete sequence of construction by activity. Indicate:

1. Dates for beginning and completion of each construction item.
2. Projected percentage of completion for each item as of first work day of each month.
3. Projected percentage of completion for total Work as of first day of each month.
4. Required dates for return of specific submittals and for selection of finishes.

C. Procedures:

1. Submit for review by Design Professional 3 copies of preliminary Progress Schedule within 20 days of date of Agreement between Owner and Contractor but no later than submission of first payment application.
2. Revise to address review comments and resubmit.
3. Update Progress Schedule and submit 3 copies with each Application for Payment.
 - a. Identify progress of each activity to date of submittal and projected completion date.
 - b. Show activities modified since last submittal and other identifiable changes.
 - c. Provide narrative report as needed to define problem areas, anticipated delays, and impact on Schedule. Report corrective action taken or proposed and its effect.

1.10 NOTAM PROCESS

Provide to Owner at least 96 hours information on the start of construction, the start of building erection, the operation of any piece of equipment greater than 25' tall, so the Owner can issue NOTAMs and coordinate with FAA.

PART 2 - PRODUCTS

2.1 EQUIPMENT

- A. Verify utility requirements and characteristics of equipment are compatible with facility utilities. Coordinate work of various specification sections having interdependent requirements for installing, connecting to, and placing in service such equipment.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Space requirements:

1. Coordinate space requirements and installation of mechanical, electrical, and other work shown diagrammatically on Drawings. Follow routing shown for pipes, ducts, and wireways as closely as practicable. Utilize spaces efficiently to maximize accessibility for other installations, maintenance, and repairs.
2. Where space is limited, coordinate installation of components to ensure maximum access for maintenance. Ensure space provided around equipment and fixtures complies with applicable codes.

- B. Concealment: In finished areas, conceal pipes, ducts, and wireways within construction except

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as otherwise indicated. Where practical, conceal supports, fasteners, and other attachment devices.

C. Arrangement:

1. Unless otherwise indicated, installations shall be aligned vertically and horizontally. Place piping, conduit, wireways, and other linear items parallel with lines of building.
2. Coordinate mounting heights and spacing of components so that finished work is neat and orderly with organized appearance.
3. Repetitive items such as hangers and fasteners shall be equally spaced unless indicated otherwise.

D. Blocking, anchors, and supports: Determine and coordinate requirements for blocking, anchors, and supports needed for proper installation of products. Provide necessary components whether or not indicated on Drawings or specified.

E. Finished surfaces: Coordinate locations of fixtures, boxes, and other recessed or surface mounted items with finish elements and grades to ensure proper installation and neat appearance.

3.2 COORDINATION WITH INSTALLED CONSTRUCTION

- A. Openings made in installed exterior surfaces shall be closed to protect construction from weather and extremes of temperature and humidity.
- B. Cutting and patching of installed construction shall be accomplished in accordance with Section 017000 - Execution Requirements.
- C. Remove, cut, and patch previously installed construction in a manner to minimize damage and to provide a means of restoring finishes to original or better condition.
- D. Where refinishing is required, provide a neat transition to adjacent surfaces.
- E. Patched work shall match existing adjacent work in texture and appearance.

END OF SECTION

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SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes submittal procedures for:
1. Shop drawings.
 2. Product data.
 3. Samples.
 4. Manufacturer's instructions.
 5. Design data and calculations.
 6. Manufacturer's certificates.
 7. Reports for testing, inspecting, and demonstrating.
 8. Refer to individual specification sections for unique submittal requirements related to a specific product.

1.2 SUBMITTAL SCHEDULE

- A. Procedure:
1. Submit for review by Architect 3 copies of Submittal Schedule within 20 days of date of Agreement Between Owner and Contractor but no later than Notice to Proceed.
 2. Revise to address review comments and resubmit.
 3. Update Submittal Schedule to reflect change orders, Progress Schedule revisions, and status of individual submittals. Submit 3 copies with each Application for Payment.
- B. Format: Tabular arrangement indicating:
1. Submittal number and title.
 2. Related specification section number and title.
 3. Proposed submittal date, actual submittal date, and date reviewed submittal is required.

1.3 SUBMITTAL PROCEDURES

- A. Schedule submittals to expedite Work. Unless otherwise noted, submittals shall be

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submitted within 45 days of date of Agreement between Owner and Contractor.

B. Preparation:

1. Provide separate submittal for each specification section requiring submittals. Include all material requested for that section. Provide folders or binders for material.
2. Coordinate submission of related items. Group submittals of related products or a system in a single transmission.
3. Identify variations from requirements of Contract Documents. State product and system limitations which may adversely affect Work.
4. Mark or show dimensions and values in same units as specified.
5. Provide 4 by 6 inches minimum space for Architect and Contractor review stamps.

C. Contractor review:

1. Review submittals prior to transmittal. Verify compatibility with field conditions and dimensions, product selections and designations, and conformance of submittal with requirements of Contract Documents. Return non-conforming submittals to originator for revision rather than submitting to Architect.
2. Coordinate submittals to avoid conflicts between various items of work.
3. Apply Contractor's stamp with signature certifying that review, verification of products required, field dimensions, adjacent construction, and coordination of information is in accordance with the requirements of the Contract Documents.
4. Failure of Contractor to review submittals prior to transmittal to Architect shall be cause for rejection.

D. Transmittal:

1. Transmit each submittal with a separate Submittal Transmittal Form. Copy of Form follows this Section.
2. Sequentially number transmittal forms. Re-submittals shall have original number with an alphabetic suffix.
3. Identify project, Contractor, subcontractor, supplier, pertinent drawing sheet and detail numbers, and associated specification section numbers.
4. Sign Submittal Transmittal Form and deliver submittals to Architect.

E. Review: Architect will review and return submittals with comments.

F. Do not fabricate products or begin work which requires submittals until return of submittal

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with Architect acceptance.

- G. On return promptly distribute reviewed submittals to concerned parties. Instruct parties to promptly report any inability to comply with provisions.
- H. Resubmission:
 - 1. Revise and resubmit submittals as required within 15 days of return from Architect.
 - 2. Make re-submittals under procedures specified for initial submittals.
 - 3. Identify all changes made since previous submittal.

1.4 SHOP DRAWINGS

- A. Submission:
 - 1. Submit one reproducible transparency and 3 copies to be retained by Architect.
 - 2. Fold drawings to fit submittal folders.
- B. Form:
 - 1. Size: 8-1/2 by 11 inches minimum and 36 by 48 inches maximum except for full size details and templates.
 - 2. Present in a clear and thorough manner. Title each drawing with Project name. Identify each element of drawing with reference number.
 - 3. Plans, elevations, sections, and detail shop drawings shall be to scale with scale indicated.
 - 4. Indicate field verified dimensions. Show relationship of products to adjacent work. Note coordination requirements.
 - 5. Schematics and wiring and other diagrams shall be logically arranged and presented in a clear understandable manner with all items labeled.

1.5 PRODUCT DATA

- A. Submission: Submit the number of copies which Contractor requires plus 3 copies to be retained by Architect.
- B. Form:
 - 1. Provide all critical information such as reference standards, performance characteristics, capacities, power requirements, wiring and piping diagrams, controls, component parts, finishes, dimensions, and required clearances.

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2. Submit only data which are pertinent. Mark each copy of manufacturer's standard printed data to identify products, models, options, and other data pertinent to project.
3. Modify manufacturer's standard schematic drawings and diagrams and supplement standard data to provide specific information applicable to project. Delete information not applicable.
4. Colors and patterns: Unless color and pattern is specified for product, submit accurate color and pattern charts or samples illustrating manufacturer's full range for selection by Architect. Submit for Architect's review accurate color and pattern samples as required for specified colors.

1.6 SAMPLES

A. Submission:

1. Submit the number of samples specified in individual specification sections. One sample will be retained by Architect.
2. Label each sample with identification related to Submittal Transmittal Form.
3. Submit samples at least 30 days prior to date Contractor needs approval for ordering or incorporation into Work.

B. Type: Submit samples to illustrate functional and aesthetic characteristics of the products, with all integral parts and attachment devices. Include full range of manufacturer's standard finishes, indicating colors, textures, and patterns for Architect selection.

C. Reviewed product samples may be used in work with approval of Architect.

1.7 MANUFACTURER'S INSTRUCTIONS

A. Submission: Submit the number of copies which Contractor requires plus 3 to be retained by Architect.

B. Form:

1. Manufacturers' printed instructions for activities such as delivery, storage, assembly, installation, wiring, start-up, adjusting, finishing, and maintaining.
2. Indicate pertinent portions and identify conflicts between manufacturers' instructions and Contract Documents.

1.8 DESIGN DATA AND CALCULATIONS

A. Submission: Submit the number of copies which Contractor requires plus 4 to be retained by Architect.

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B. Form:

1. Provide basic calculations, analyses, and data to support design decisions and demonstrate compliance with specified requirements. State assumptions and define parameters. Give general formulas and references. Provide sketches as required to illustrate design method and application.
2. Arrange calculations and data in a logical manner with suitable text to explain procedure.
3. Indicate name, title, and telephone number of individual performing design and include professional seal of designer where applicable or required.

1.9 MANUFACTURERS' CERTIFICATES

A. Submission: Submit the number of copies which Contractor requires plus 3 to be retained by Architect.

B. Form:

1. Certificates shall indicate that products conform to or exceed specified requirements. Submit supporting reference data, affidavits, and certifications as required.
2. Certificates may be based on recent or previous test results if acceptable to Architect.

1.10 REPORTS

A. Submission:

1. Submit the number of copies which Contractor requires plus 3 to be retained by Architect.
2. Submit reports within 15 days after completion of activity.

B. Form:

1. Present complete information in a clear concise manner.
2. Typed or computer printed on 8-1/2 by 11 inch white paper.
3. Bind with titled cover in folder, plastic binder, or three ring binder as appropriate for quantity of material.

C. Reports shall include:

- a. Time, location, conditions, and duration of activity.
- b. Names of persons performing and witnessing activity.

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- c. Equipment used.
- d. Description of activity, data recorded, and results.
- e. Deficiencies found, corrective measures, and results of retesting.
- f. Other pertinent data.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not Used.

END OF SECTION

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SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Installation quality control.
 - 2. Reference standards.
 - 3. Mock-ups.
 - 4. Field samples.
 - 5. Inspection and testing laboratory services.
 - 6. Manufacturer's field services and reports.

1.2 INSTALLATION QUALITY CONTROL

- A. Monitor and maintain quality control over manufacturers, suppliers, subcontractors, work force, site conditions, products, and services to ensure Work is of specified, consistent quality.
- B. Workmanship:
 - 1. Specified requirements represent a minimum acceptable quality for Work. Comply with industry standards except when more stringent specified requirements and tolerances indicate higher standards or more precise workmanship.
 - 2. Perform work with suitable qualified personnel to produce work of specified quality.
 - 3. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, and distortion.
- C. Manufacturer's instructions:
 - 1. Comply fully with manufacturer's instructions. Perform steps in manufacturer's recommended sequence.
 - 2. Should instructions conflict with Contract Documents, request clarification from Architect before proceeding.

1.3 REFERENCE STANDARDS

- A. When specifications require conformance to a reference standard, applicable standard shall be the edition current at date of receiving bids.

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- B. Should specified reference standard conflict with Contract Documents, request clarification from Architect.
- C. Contractual relationship, duties, and responsibilities of the parties to the Contract nor those of Architect shall not be altered from that stated in the Contract Documents by mention or inference to the contrary in a specified reference standard.

1.4 FIELD SAMPLES

- A. When required by an individual specification section, install field samples for review by Architect.
- B. Acceptable installed sample shall remain as part of Work and shall represent quality level for that item of work. Unacceptable sample shall be removed and replaced, repaired, or refinished as directed by Architect.

1.5 INSPECTION AND TESTING LABORATORY SERVICES

- A. Unless required otherwise in the Contract, Owner shall appoint, employ, and pay for services of an independent firm to perform routine inspections and compliance for testing and inspection services as specified and/or as shown, including Special Inspections required by Authority Having Jurisdiction, and other materials, components, and systems where routine testing to determine compliance with Contract Documents is required.
- A. Testing firm shall perform inspections, tests, and other services specified in individual specification sections and as required.
- B. Testing firm shall submit copies of reports indicating observations and results of inspections and tests with indication of compliance or non-compliance with Contract Documents.
- C. Contractor's responsibilities:
 - 1. Cooperate with testing firm and furnish materials and other products to be tested. Provide assistance in accessing and obtaining samples. Provide storage for samples and testing equipment.
 - 2. Notify testing firm 2 days prior to operations requiring testing services.
 - 3. Make arrangements with testing firm and pay for additional samples and tests required for Contractor's use.
- D. Retesting: Retesting required because of non-conformance to specified requirements shall be performed by same testing firm and paid for by Contractor.

1.6 MANUFACTURER'S FIELD SERVICES AND REPORTS

- A. When required by an individual specification section, provide services of manufacturer's field representative to observe site conditions, installation, quality of workmanship, starting of equipment, testing and adjusting equipment, and as applicable, to instruct and supervise

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field operations.

- B. Submit qualifications of manufacturer's field representative to Architect for approval 15 days in advance of required observation.
- C. Manufacturer's field representatives shall report observations, site decisions, and instructions given to installers that are supplemental or contrary to manufacturer's written instructions.
- D. Submit report of field representative within 30 days of observation and in accordance with Section 01 3300 - Submittal Procedures.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not used.

END OF SECTION

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SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Site mobilization plan.
2. Temporary services: Electrical, lighting, heating, ventilating, water, telephone, and facsimile.
3. Fencing, barriers, and other temporary controls.
5. Construction facilities: Temporary buildings, sanitary facilities, access, and parking.
6. Protection of Work and existing facilities.
7. Bulletin board.

B. Related documents and sections:

1.2 REFERENCES

- A. NFPA 10 - Standard for Portable Fire Extinguishers.
- B. NFPA 241 - Safeguarding Building Construction, Alterations, and Demolition Operations.

1.3 SITE MOBILIZATION PLAN

- A. Coordinate locations for temporary facilities with Architect and Owner.
- B. Based upon information indicated on Drawings, prepare site mobilization plan showing:
 1. Field office, if required.
 2. Storage areas, sheds, and fencing.
 3. Access routes.
 4. Temporary utility routes and connections.
 5. Sanitary facilities.
 6. Trash and rubbish receptacles.
 7. Parking arrangements.

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8. Barricade placement.
9. Other requirements of the Airfield Safety Plan.
- C. Present 3 copies of plan at Pre-Construction Conference in accordance with Section 013100 - Project Management and Coordination.
- D. Prior to mobilization, revise and resubmit to Architect site mobilization plan incorporating final revisions made at Pre-Construction Conference and approved by Architect and Owner.

1.4 TEMPORARY ELECTRICITY

- A. Connect to existing power source at site. Do not disrupt Owner's need for continuous service. Provide service disconnect and overcurrent protection. Provide temporary feeder as required. Provide separate metering and reimburse Owner for cost of energy used.
- B. Provide power outlets for construction operations with branch wiring, distribution boxes, and flexible power cords as required.
- C. Permanent convenience receptacles may be utilized during construction.

1.5 TEMPORARY LIGHTING

- A. Provide lighting for construction operations. Lighting levels shall be appropriate for type and difficulty of work. Use these minimums as guidelines:
- B. After dark, provide security lighting for interior and exterior work and storage areas.
- C. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.
- D. Maintain lighting and provide routine repairs.
- E. Permanent building lighting may be utilized during construction.
- F. Lighting shall not impact aircraft operations or violate the night sky protection act.

1.6 TEMPORARY HEATING AND VENTILATING

- A. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, and gases.
- B. Provide temporary fan units to maintain clean air for construction operations.
- C. Maintain minimum ambient temperature of 50 degrees F in interior areas where construction is in progress.

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1.7 TEMPORARY WATER SERVICE

- A. Connect to existing water source at site for construction operations. Owner will pay cost of water used. Exercise measures to conserve water.
- A. Assume responsibility for temporary connections and water lines. Upon completion, remove temporary facilities.

1.8 COMMUNICATIONS

None Required

1.9 FENCING

None Required

1.10 BARRIERS AND PROTECTION

- A. See Airfield Safety Plan for Aviation barricades requirements
- B. Security: Provide to protect Work and existing facilities from unauthorized entry, vandalism, and theft. Coordinate with Owner's security program and personnel.
- C. Emergency exits shall be maintained during construction. Provide separate barriers as appropriate.
- D. Protect existing trees and plants designated to remain. Replace damaged plant material.
- W. Hand-water existing trees, plants and grass as necessary to maintain them viable in the event that existing irrigation system is made temporarily inoperable due to the Work. Replace dead plant material as required in the event of failure to comply with this provision.

1.11 PROTECTION OF INSTALLED WORK

- A. Protect installed Work. Control activity in immediate work area.
- B. Provide temporary and removable protection for installed products.
- C. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, and movement of heavy objects with durable sheet materials.
- D. Prohibit traffic and storage on roof surfaces and landscaped areas.

1.12 TEMPORARY FIRE PROTECTION

- A. Install and maintain temporary fire protection components. Establish and follow procedures to protect against fire losses. Comply with NFPA 241.
- B. Fire extinguishers: Provide hand carried, portable, UL rated fire extinguishers of type and

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size recommended by NFPA 10 for building exposure conditions. Place in accessible, convenient locations in clear view with a minimum of one extinguisher per floor.

- C. Access: Maintain unobstructed access to fire hydrants, water supply, fire extinguishers, stairways, and access routes for fighting fires.
- D. Heating devices: Exercise care and monitor use of temporary heaters to minimize fire risk.
- E. Store combustible materials in fire-safe containers.
- F. Volatile products: Do not store paints, varnishes, paint removers, solvents, adhesives, cleaning rags, and other volatile products in building. Take precautionary measures to prevent fire hazards and spontaneous combustion.
- G. Cutting and welding: Approve in advance use of open flame cutting, welding, and soldering equipment. Ensure that safe conditions exist before granting approval.

1.13 TEMPORARY DUST, EROSION AND SEDIMENT CONTROLS

- A. Prevent temporary collection of sediment on aprons, taxiways, taxiway, sidewalks, parking lots, streets and driveways. Clean such surfaces promptly if such conditions exist due to the Work.
- B. Prevent fugitive dust from originating on and blowing from construction site, in accordance with local ordinances and regulations. Failure to do so will subject Contractor to payment of fines assessed against Owner by local agency having jurisdiction.

1.14 ACCESS

- A. Refer to Drawings for location of acceptable access routes and site entrances. Protect existing curbs and walks traversed by construction vehicles from damage.
- B. Prevent unauthorized personnel from accessing or site through Contractor's work area.

1.15 FIELD FACILITIES

- A. Provide and maintain storage sheds and other facilities as required.
- B. Arrange for parking for work force in manner approved by Owner. Do not limit Owner's requirements for parking.

1.16 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required sanitary facilities for work force.
- B. New and existing toilet facilities shall not be used by work force.

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1.17 DRINKING WATER

- A. Provide independent source of drinking water for work force.

1.18 PROJECT SIGNS

None Required

1.19 BULLETIN BOARD

- A. Furnish and maintain bulletin board adjacent to field office. Display the following throughout construction period:
 - 1. Federal and State wage rates / wage rate poster
 - 2. Safety requirements.
 - 3. Official notices and announcements.

1.20 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary above grade and buried utilities, equipment, facilities, and excess materials prior to final inspection.
- B. Clean and repair damage caused by installation of temporary facilities and the project.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not used.

END OF SECTION

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SECTION 016000 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. General product requirements.
 - 2. Transportation and handling.
 - 3. Storage and protection of products.

1.2 GENERAL PRODUCT REQUIREMENTS

- A. Products shall be new and currently in production.
- B. Do not use products removed from other facilities except where use of salvaged products is required in Contract Documents.
- C. Products of the same category shall be products of a single manufacturer. Where possible, products under a single specification section shall be of the same manufacturer.
- D. Only non-asbestos containing materials shall be used or incorporated in the Work.

1.3 TRANSPORTATION AND HANDLING

- A. Transport and handle products in accordance with manufacturer's instructions.
- B. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- C. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, and damage.
- D. Deliver packaged products in unopened and undamaged cartons and wrappings.

1.4 STORAGE AND PROTECTION

- A. Store and protect products in accordance with manufacturer's instructions, with seals and labels intact and legible. Store sensitive products in weather-tight, climate controlled enclosures.
- B. For exterior storage of fabricated products, place on supports above ground, sloped to drain.
- C. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation.

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- D. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- E. Arrange storage of products to permit access for inspection. Periodically inspect to ensure products are undamaged and are maintained under specified conditions.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

Not used.

END OF SECTION

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SECTION 017000 - EXECUTION REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Basic requirements for examination, preparation and installation.
2. Requirements and limitations for cutting and patching incidental to work, including excavation and backfilling, and as required to make several parts fit together.
3. Progress cleaning.

1.2 SUBMITTALS

A. Cutting request:

1. Submit advance written request to Architect prior to cutting or other alteration which affects;
 - a. Structural integrity of an element.
 - b. Integrity of weather-exposed or moisture-resistant element.
 - c. Operation, efficiency, maintenance, or safety of an element.
 - d. Visual qualities of exposed elements.
 - e. Work of others under separate contract to Owner.
2. Include in request:
 - a. Project and Contractor identification.
 - b. Location and description of proposed work.
 - c. Necessity for cutting or alteration and alternatives to cutting and patching.
 - d. Effect on work of this Contract, existing construction, and work of others under separate contract to Owner.
 - e. Date work will be executed.

1.3 LOCATION OF UNDERGROUND UTILITIES

- A. The Contractor shall arrange for all spotting of lines by New Mexico One Call in advance of any excavation work.

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- B. Additionally, the contract will locate all utilities in the project area indicated on the plans.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Patching and replacement materials: Those used for original installation.
- B. Product substitutions: For any proposed change in patching materials, submit request for substitution in accordance with Section 016300 - Product Substitution Procedures.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to commencing a portion of Work:
 1. Verify that existing site conditions and substrate surfaces are acceptable for subsequent Work.
 2. Verify that existing substrate is capable of structural attachment of new Work being applied or attached and that required blocking is in place.
 3. Verify that existing substrate is compatible with, properly prepared, and otherwise ready to receive subsequent applications and finishes. Ensure that existing conditions conform to requirements of manufacturers of products to be applied.
 4. Verify that utility services are available, of correct characteristics, and in correct location.
- B. Prior to commencing removals and cutting and patching, inspect existing building systems and elements subject to damage or movement during subsequent operations. Document and report existing damage and operational condition of existing systems such as telecommunications, data, security, HVAC controls and fire alarm in the location of the anticipated work and in related or adjacent spaces. Such documentation shall provide the basis for conditions to be maintained or re-established by the Contractor at the end of the work.
- C. Beginning of removals, cutting, patching, and new Work implies acceptance of existing conditions.

3.2 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks and openings in substrate prior to applying next material or substance.

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- C. Apply manufacturer required substrate primer, sealer, and conditioner prior to applying new material or substance to substrate.

3.3 INSTALLATION

- A. Install, construct, erect, assemble, and apply products in accordance with manufacturer's recommendations and instructions and specified requirements. Notify Architect where manufacturer's instructions conflict with specifications. Do not proceed until clarification is received.
- B. Install products secure, rigid, plumb, and level within specified or industry acceptable tolerances.
- C. Remove excess materials such as adhesive, grout, mortar, and sealants, from finished surfaces in a manner which does not stain, corrode, disfigure, or otherwise damage finished surface.
- D. Adjust working parts for smooth, proper operation.
- E. Replace deformed, scratched, cracked, broken, or otherwise damaged products as result of installation.
- F. After installation is complete, protect installed products and finished surfaces from subsequent construction operations in accordance with Section 015000 - Temporary Facilities and Controls. Replace or repair subsequently damaged products and surfaces.
- G. Clean and maintain installed products in accordance with manufacturer's recommendations and specifications until Substantial Completion.

3.4 CUTTING AND PATCHING

- A. Execute cutting, fitting, patching, excavation, and fill as required to:
 - 1. Install new work into existing construction.
 - 2. Fit products together and to integrate them with other work.
 - 3. Uncover work to correct incomplete or deficient work.
 - 4. Remove and replace defective and non-conforming work.
 - 5. Remove samples of installed work for testing.
 - 6. Provide openings for penetrations of mechanical, electrical, and other work.
- B. Provide temporary supports to ensure structural integrity. Provide devices and methods to protect other portions of Project from damage.
- C. Provide protection from elements for areas which may be exposed by cutting operations.

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- D. Method: Execute work by methods to avoid damage to existing building systems and other work and in a manner which will provide appropriate surfaces to receive patching and finishing.
- E. Cutting:
 - 1. Cut rigid materials using masonry saw or core drill. Pneumatic tools are not allowed without prior approval.
 - 2. Size openings to exactly fit penetrating item plus allowance for sealant. Form edges of hole even and smooth.
 - 3. Drill penetrations through concrete for conduit and piping.
 - 4. Drill round holes and saw cut rectangular openings in concrete unit masonry units. Where block is broken or chipped in process, remove complete face of exposed block and replace with partial block.
- F. Patching:
 - 1. Restore work with new products meeting requirements of Contract Documents.
 - 2. Fit work tight to pipes, sleeves, ducts, conduits, and other elements penetrating surfaces.
 - 3. At penetrations of fire rated walls, partitions, ceilings, and floors, completely seal voids with fire-resistant material.
- G. Finishing: Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
- H. Repair: Contractor shall be responsible for repair and/or restoration of existing telecommunications, data, security, HVAC controls and fire alarm systems back to condition documented as existing prior to the commencement of work. Life safety systems and other systems impacting the operations of the school shall be restored immediately and as approved by Architect and Owner.

3.5 ASPHALT PAVEMENT

- A. Where existing or new pavement is damaged from construction operations, cut to install new underground utilities and where existing items are removed from paved areas:
 - 1. Cut pavement with saw or other means to provide neat, straight joints.
 - 2. Where existing pavement is damaged by removals, remove additional pavement to allow clean cuts.
 - 3. Backfill and sufficiently compact removal area prior to placement of pavement.

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4. Place pavement to match existing materials and thickness.
- B. Immediately after placement, protect new pavement from mechanical damage.

3.6 ROOF PENETRATIONS

- A. New roofing:
 1. Coordinate, locate and schedule roof penetrations prior to installation of new roof system.
 2. Coordinate roof penetrations such that installation does not void roof warranty.

3.7 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- B. Remove waste materials, debris, and rubbish from site weekly and legally dispose of off-site.
- C. Remove debris and rubbish from pipe chases, plenums, crawl spaces, above suspended ceilings, and other closed and remote spaces prior to enclosing space.
- D. Prior to surface finishing, broom and vacuum clean interior areas to eliminate dust.
- E. Washing of concrete trucks and dumping of excess cementitious material on site is not allowed. All such materials and contaminated soil shall be removed.
- F. Soils and other site material contaminated by paint residues, oils, fuels, and other construction products shall be removed and replaced with equivalent soil or material.
- G. Existing lawns, landscaped areas, and areas for future landscaping affected by construction operations shall be raked to remove stones, mortars, aggregates, and other construction debris in excess of 3/4 inch diameter.
- H. Clean mud and sediment resulting from Contractor's operations or traffic from all pavements, sidewalks, public streets and parking areas.
- I. See Airfield Safety Plan Note 4e for pavement sweeping information.

END OF SECTION

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SECTION 017500 - STARTING AND ADJUSTING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes: General procedures for starting, monitoring, and adjusting items of equipment and complete systems.

PART 2- PRODUCTS

Not used.

PART 3 - EXECUTION

3.1 SCHEDULING

- A. Coordinate schedule for starting of systems and equipment to ensure proper sequencing.
- B. Notify Architect 7 days prior to startup of each system.

3.2 PREPARATION

- A. Prior to startup, inspect items of equipment and systems to ensure that:
 - 1. Installation is in accordance with manufacturer's instructions.
 - 2. No defective items have been installed and there are no loose connections.
 - 3. Power supplies are correct voltage, phasing, and frequency.
 - 4. Grounding and transient protection systems are properly installed.
 - 5. Items have been properly lubricated, belts tensioned, and control sequence and other conditions which may cause damage have been addressed.
- B. Verify that system wiring has been tested.
- C. Verify that provisions have been made for safety of personnel.

3.3 STARTING OF SYSTEMS

- A. Execute starting under supervision of responsible personnel in accordance with manufacturer's instructions.
- B. When specified in individual sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment and system installation prior to startup and to supervise placing equipment and system in operation.

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- C. Adjustment: Monitor systems and verify performance. Correct deficiencies. Replace defective components and equipment. Adjust equipment and systems for smooth and proper installation.
- D. Submit written report in accordance with Section 013300 - Submittal Procedures that equipment and systems have been properly installed and are functioning correctly.

END OF SECTION

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SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Closeout procedures.
2. HVAC equipment inventory
3. Final cleaning.
4. Final inspection.
5. Inspection held immediately prior to end of one year correction period.

1.2 SUBSTANTIAL COMPLETION PROCEDURES

A. Prior to or in conjunction with submission of Contractor's request for Substantial Completion, submit the following items specified in Section 017800 - Closeout Procedures:

1. Project record documents.
2. Operation and maintenance data and manuals.
3. Warranties.
4. Certificates of inspection and Certificate of Occupancy.
5. Insurance certificates.
6. Extra materials.
7. Keys.

B. When Work is sufficiently complete:

1. Inspect Work and prepare comprehensive list of items to be completed or corrected.
2. Perform final cleaning of portions of Work for which approval of substantial completion is being requested.
3. Submit 3 copies of comprehensive list of items (Contractor's Punch List) to be completed and Final Completion Schedule to Design Professional. Indicate portions of Work suitable for Owner occupancy and for which approval of substantial completion is being requested.
4. Submit Application for Payment in accordance with Section 012000 - Price and

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Payment Procedures.

- C. After inspection by Design Professional and issuance of Certificate of Substantial Completion, Owner will occupy all designated portions of Project building for installation of equipment and furnishings to conduct normal operations under provisions stated in Certificate of Substantial Completion.

1.3 FINAL COMPLETION PROCEDURES

- A. Perform final cleaning as specified in Paragraph 1.4.
- B. Prior to or in conjunction with submission of Notice of Final Completion, submit the following items:
 - 1. Contractor's Affidavit of Payment of Debts and Claims, AIA G706.
 - 2. Consent of Surety Company to Final Payment, AIA G707.
 - 3. Insurance certificates.
 - 4. Final Application for Payment as specified in Section 012900 - Price and Payment Procedures. Identify total adjusted Contract Sum, previous payments, and sum due.
 - 5. Additional items required by the Contract.
- C. Submit Notice of Final Completion certifying that Contract Documents have been reviewed, work has been inspected, and that Work is complete in accordance with Contract Documents and ready for Design Professional's inspection.
- D. Remove temporary utilities, controls, and facilities in accordance with Section 01500 - Temporary Facilities and Controls.
- E. Request Close-Out Meeting and final inspection with Design Professional and Owner.
- F. HVAC Equipment Inventory: Provide a list of the major HVAC equipment and where each major piece of equipment is located, in order to assist APS M&O in a future comprehensive equipment inventory. Major equipment includes items such as air handlers, chillers, cooling towers, VAV or CV terminal units, and location of computer access to HVAC DDC controls (if provided).

1.4 FINAL CLEANING

- A. Execute final cleaning prior to final inspection by methods and with materials and equipment suitable for commercial/institutional building maintenance.
- B. Clean interior and exterior surfaces exposed to view; remove temporary labels, stains and foreign substances; polish transparent and glossy surfaces; and vacuum carpeted and soft surfaces.

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- C. Sanitize equipment and fixtures.
- D. Clean or replace filters of operating equipment.
- E. Clear debris from roof, gutters and drainage systems, ceiling spaces, plenums, storage areas, and interior spaces.
- F. Clean site, sweep paved areas, and rake landscaped areas and other ground surfaces.
- G. Remove waste and surplus materials, rubbish, and construction facilities from the site. Dispose of legally.

1.5 FINAL INSPECTION

- A. Design Professional and Owner's representative will make inspection within 10 days of receipt of written request for Close-Out Meeting.
- B. If Work is incomplete or defective:
 - 1. Design Professional will provide Contractor written list of deficiencies.
 - 2. Contractor shall immediately correct deficiencies and submit certification that Work is complete.
 - 3. Design Professional and Owner's representative will re-inspect Work.
 - 4. Re-inspection fees:
 - a. When status of completion requires re-inspection by Design Professional due to failure of Work to comply as certified by Contractor, Owner will deduct amount of Design Professional's compensation for re-inspection from final payment.
 - b. Re-inspection services will be billed at current rates for Design Professional's personnel.

1.6 CORRECTION PERIOD INSPECTION

- A. 30 days prior to end of one year correction period, schedule and attend a one year correction period inspection. Appropriate subcontractors shall attend.
- B. Coordinate time of inspection with Design Professional.
- C. Representatives of Owner, Design Professional, and appropriate consultants will attend.
- D. Correct deficiencies noted.

PART 2 - PRODUCTS

Not Used.

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PART 3 - EXECUTION

Not Used.

END OF SECTION

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SECTION 017800 - CLOSEOUT SUBMITTALS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes procedures for preparing and submitting closeout submittals:
1. Project Record Documents.
 2. Operation and maintenance manuals and data.
 3. Warranties.
 4. Insurance information.
 5. Certificates of inspection and compliance.
 6. Maintenance tools.
 7. Extra materials.
 8. Keys.

1.2 PROJECT RECORD DOCUMENTS

- A. Maintain on site, one set of the following record documents; record actual revisions to work:
1. Contract Drawings.
 2. Specifications.
 3. Addenda.
 4. Change Orders and other modifications to the Contract.
 5. Reviewed submittals.
- B. Store Record Documents separate from documents used for construction. Label "Project Record Documents".
- C. Record information concurrent with construction progress. Use erasable colored pencil. Date all entries. Call attention to entry by circling area affected.
- D. Specifications: Legibly mark and record in each section description of actual products installed, including the following:
1. Manufacturer's name and product model and number.

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2. Product substitutions or alternates utilized.
 3. Changes made by Addenda and modifications.
- E. Contract Drawings and shop drawings: Legibly mark each item to record actual construction including:
1. Actual items of equipment and system components installed.
 2. Actual locations of components and routing of piping and raceways.
 3. Measured horizontal and vertical locations of underground water, sewer, irrigation, electrical, and other utilities and appurtenances, referenced to permanent surface improvements.
 4. Measured locations of piping, raceways, and other items concealed in construction, referenced to visible and accessible features.
 5. Field changes of dimension and detail.
 6. Details not on original Contract Drawings.
- F. Documents will be reviewed by Architect at each submittal of Application for Payment to ensure that entries are current.
- G. Submit documents to Architect prior to or in conjunction with submission of Contractor's request for Substantial Completion and in accordance with Owner's procedures.

1.3 OPERATION AND MAINTENANCE DATA

- A. Provide operation and maintenance data for:
1. Motorized doors specified in Section 08 3600 - Overhead door Operator.
 2. Electrical equipment, systems, and controls specified in Division 16 - Electrical.
 3. Other equipment and systems for which operation and maintenance data is requested in individual specification sections.
- B. Submission:
1. Submit data to Architect in one or more binders.
 2. Submit for review one draft copy 30 days prior to need date or as otherwise specified. This copy will be returned after review with Architect's comments. Revise content as required.

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3. Once approved, submit 3 copies of final operation and maintenance manuals to Owner. All manuals shall be submitted prior to or in conjunction with Contractor's request for Substantial Completion and prior to demonstration and training session.

C. Contents:

1. Appropriate design criteria.
2. Equipment and parts lists.
3. Operating instructions.
4. Maintenance instruction for equipment and finishes.
5. Shop drawings and product data.
6. Testing, balancing, and other field quality reports.
7. Copies of warranties. Deliver original Roofing Warranties separately to Owner, with copies in the Operations and Maintenance Manuals.
8. Directory listings
9. Other material and information as indicated in individual specification sections and as necessary for operation and maintenance by Owner's personnel.

D. Form:

1. Hard copies of manuals shall be 8-1/2 x 11 inch text pages bound in three ring expansion binders with a hard durable plastic cover. All documents to be originals unless otherwise noted.
2. Prepare binder covers with printed subject title of manual, title of project, date, and volume number when multiple binders are required. Printing shall be on face and spine.
3. Internally subdivide the binder contents with divider sheets with typed tab titles under reinforced plastic tabs. Place dividers at beginning of each chapter, part, section, and appendix.
4. Provide a table of contents for each volume.
5. Provide directory listing as appropriate with names addresses, and telephone numbers of Architect, Contractor, subcontractors, equipment suppliers, and nearest service representatives. Provide emergency 24-hour service contact information for all subcontractors, service contractors and principal vendors.

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1.4 WARRANTIES

- A. Provide duplicate notarized copies of special and extended warranties as required by individual specifications sections.
- B. Submit warranties to Architect prior to or in conjunction with submission of Notice of Substantial Completion.
- C. Execute and assemble warranties from subcontractors, suppliers, and manufacturers.
- D. Provide Table of Contents and assemble in three ring binder with a hard durable plastic cover. Internally subdivide the binder contents with permanent page dividers, with tab titling clearly typed under reinforced laminated plastic tabs.
- E. For items of work delayed beyond date of Substantial Completion, provide updated warranty submittal within ten days after acceptance, listing date of acceptance as start of warranty period.

1.5 CERTIFICATES OF INSPECTION AND COMPLIANCE

- A. For inspections throughout the construction period required by regulatory agencies, obtain and maintain certificates issued to show compliance.
- B. Assemble certificates and any formal written evidence of regulatory compliance in three ring binder with table of contents and submit to Architect prior to or in conjunction with submission of Notice of Substantial Completion.
- C. Certificate of Occupancy: Prior to Substantial Completion, obtain from authorities having jurisdiction Certificate of Occupancy. Submit with Notice for Substantial Completion.

1.6 INSURANCE INFORMATION

- A. Submit prior to or in conjunction with submission of Contractor's request for Substantial Completion information regarding insurance including change over requirements and insurance extensions.

1.7 MAINTENANCE TOOLS

- A. Provide all special tools, instruments, and other implements required for the functional operation and maintenance of equipment, systems, and other components installed as part of this project. Include screw drivers, crescent wrenches, pliers, and allen wrenches as well as more unique and atypical tools.
- B. Tools shall be as provided or recommended by manufacturers of installed equipment and systems. Types and sizes shall be as specifically required for installed products.
- C. Tools shall be available and their use demonstrated during training sessions specified in Section 01 7500 - Starting, Adjusting, and Demonstrating.

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- D. Prior to, or concurrent with, Contractor's request for Substantial Completion, deliver maintenance tools to Owner's representative. Prepare inventory of tools provided and obtain receipt from Owner's representative.

1.8 EXTRA MATERIALS

- A. Provide spare parts and maintenance materials in quantities specified in individual sections.
- B. Extra materials shall be produced by the same manufacturer of and compatible with the installed products.
- C. Prior to or concurrent with submission of Notice of Substantial Completion deliver extra materials in unopened containers to Owner's representative at designated storage area at project site and place in location as directed. Obtain receipt from Owner's representative.
- D. During one year correction period:
 - 1. Extra materials may be used by Contractor to replace expendable and normally worn parts.
 - 2. Extra materials used by Contractor for replacement of defective products shall be replaced at no additional cost to Owner.

1.9 KEYS

- A. Prior to or in conjunction with submission of Contractor's request for Substantial Completion, provide Owner with all keys for:
 - 1. Door hardware locks after rekeying in accordance with Section 087100 - Door Hardware.
 - 2. Access doors and panels.
 - 3. Electrical panelboards and other equipment.
- B. Provide a minimum of three keys for each lock.
- C. Clearly label each key as to function and location of lock.
- D. Obtain receipt from Owner's representative.
- E. Prior to, or in conjunction with Final Completion, return all keys lent out by Owner to Contractor for access to existing spaces, gates, etc. for the Work. Obtain receipt from Owner.

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1.10 MISCELLANEOUS SECURITY-RELATED MATERIALS AND COMPONENTS

A. Prior to or in conjunction with Final Completion and in accordance with General Conditions of the Contract, deliver to Owner and obtain receipt for:

1. All miscellaneous security-related items loaned to Contractor during the progress of the job, including:
 - a. Owner-furnished security badges and passes
 - b. Owner-furnished construction signs
2. All security software and codes, if any.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

Not Used.

END OF SECTION

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SECTION 017900 - DEMONSTRATION AND TRAINING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes: Training of Owner's designated personnel in operation and maintenance of equipment and systems.

1.2 SUBMITTALS

- A. Provide in accordance with Section 013300 - Submittal Procedures:
 1. List of names, resumes, and qualifications of personnel conducting training sessions.
 2. Preliminary schedule listing times, dates, and outline showing organization and proposed contents of training sessions for approval by Architect and Owner.
 3. Copies of training manuals and other materials to be used in training sessions for approval by Architect and Owner.
 4. Provide Owner additional copy of audio visual material on the same media used in training sessions.
 5. 3 copies of training manuals for future use in training by Owner.
 6. Submit report within 1 week after completion of training that sessions have been satisfactorily completed. Give times, dates, list of persons trained, and summary of instructions.

1.2 QUALITY ASSURANCE

- A. Personnel conducting demonstration and training sessions shall be knowledgeable of installation, operation, and maintenance of specific project equipment and systems. Where appropriate manufacturer's representatives shall conduct training.

PART 2- PRODUCTS

2.1 TRAINING MATERIALS

- A. Training manuals: Loose leaf notebook format with agenda and objectives of each lesson.
 1. Manuals shall describe function, operation, and maintenance of various items of equipment and be suitable for personnel with high school education.
 2. Manuals shall be suitable for future training of Owner personnel by Owner staff.
 3. Manuals shall useful reference for staff maintaining facility.

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- B. Visual aids: Provide charts, handouts, overhead projector slides, electronic presentations, and other visual aids required to make effective presentation and facilitate training.
 - 1. Equipment needed for showing visual training aids shall be provided by Contractor.
 - 2. Visual aids shall be suitable for use by Owner's staff to train additional personnel in the future.

PART 3 - EXECUTION

3.1 SCHEDULING

- A. Schedule demonstration and training sessions after equipment and systems have been completely installed, startup completed, and adjustments made. Single demonstration and training session shall be conducted of all items prior to substantial completion. Schedule with Architect to accommodate Owner's representatives.

3.2 DEMONSTRATION AND TRAINING

- A. Provide demonstration and training session to emphasize operation, use, and maintenance of installed items and systems:
 - 1. Motorized doors specified in Section 08 3600 – Overhead Door Operator.
 - 2. Electrical systems specified in Electrical Divisions.
 - 3. Other items and systems as designated by Architect or requested by Owner.
- B. Conduct at project site using actual installed equipment and systems.
- C. Owner shall be responsible for designating and notifying personnel to attend and ensuring attendance at scheduled sessions.
- D. Have copies of operation and maintenance manuals specified in Section 017800 - Closeout Submittals available. Use as training aids.
- E. Owner shall have right to record or video tape demonstration and training sessions.

END OF SECTION



Specifications – Plywood Sheathing

Plytanium® plywood sheathing is ideal for residential and light commercial construction, and provides outstanding performance for walls and roofs. It adds proven performance and durability to new homes, room additions and renovations.

Available Sizes (Sized for 4' x 8')

Length (Minimum) 7'-11⁷/₈" (2.435 m)

Width (Minimum) 3'-11⁷/₈" (1.216 m)

Building Code Performance Categories, Panel Thickness

- 3/8 CAT, 0.354" (8.99 mm)
- 15/32 CAT (3-ply), 0.451" (11.45 mm)
- 15/32 CAT (4-ply), 0.451" (11.45 mm)
- 19/32 CAT, 0.578" (14.68 mm)
- 23/32 CAT, 0.703" (17.85 mm)

Specifications

Length/Width Tolerance +0", -1/16" (+0, -1.6 mm)
based on 4' or 8' value

Straightness Tolerance ±1/16" (±1.6 mm)

Squareness Tolerance ±1/8" (3.2 mm)

Primary Species Southern Yellow Pine

Testing Agency APA-The Engineered Wood Association

Classifications **Exposure 1** – Plywood suitable for uses not permanently exposed to the weather. Panels classified as Exposure 1 are intended to resist the effects of moisture on structural performance as may occur due to construction delays, or other conditions of similar severity.
Exterior – Plywood suitable for repeated wetting and redrying or long-term exposure to weather and other conditions of similar severity.

Code Fire Classification Class III or C

Flame Spread Rating 75-200, smoke-developed index <450

Building Code Compliance PS 1-09; PS 2-04

Other Information

Forestry Certification Plytanium plywood panels are made from Sustainable Forestry Initiative® (SFI®) certified responsible wood sources.



Good for you. Good for our forests.™

Green Building Programs See our Plytanium plywood *Sustainability Fact Sheet* available at www.builditbetter.com for more information on potential point contributions towards specific green building programs.

NAHB Green Approved Plytanium plywood has been "Green Approved" by the NAHB Research Center, which means you can be assured that Plytanium plywood complies with specific green practice criteria in the National Green Building Standard. See our product listing on www.GreenApprovedProducts.com for more information.





Specifications – Plywood Sheathing

International Shipping

To prevent the introduction and spread of plant pests, *ISPM 15: International Standards for Phytosanitary Measures*, requires that internationally shipped solid wood pallets be debarked, treated with heat or fumigated with methyl bromide, and marked with a seal of compliance. **Pallets made with engineered wood, including Plytanium plywood, are exempt from ISPM 15 regulations.** This is because the process of manufacturing engineered wood destroys any live organisms in the wood. (Source: *“Boxes, Crate and Reel Manufacturing,” PerformancePanels.com*)

Formaldehyde Emissions

Plytanium plywood contains no added urea formaldehyde resins. PS 1 and PS 2 structural panels are exempt from testing by the California Air Resources Board (CARB) in the *Composite Wood Air Toxic Control Measure (ATCM)* and phenolic bonded structural panels are exempt from testing or monitoring by HUD in the *Manufactured Home Construction and Safety Standards*.

Manufacturing Locations

Location	Mill Number	Zip Code	Harvest Radius
Camden, TX	515	75934	90 miles
Cleveland, TX	488	77327	55 miles
Corrigan, TX	516	75939	90 miles
Crossett, AR	220	71635	35 miles
Dudley, NC	348	28333	80 miles
Emporia, VA	230	23847	40 miles
Gurdon, AR	517	71743	60 miles
Hawthorne, FL	358	32640	150 miles
Madison, GA	404	30650	100 miles
Prosperity, SC	329	29127	80 miles
Taylorsville, MS	282	39168	50 miles
Warm Springs, GA	324	31830	450 miles



Georgia-Pacific Wood Products LLC
 133 Peachtree St., N.E.
 Atlanta, GA 30303
 800-284-5347 www.builditbetter.com

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SUPER SPEC HP[®]

WATERBORNE POLYAMIDE

EPOXY HIGH GLOSS ENAMEL P42

Features

- Low odor
- Good acid and chemical resistance
- Excellent adhesion
- Resists strong cleaning compounds
- Interior or exterior applications
- Will not lift conventional coatings

General Description

This two-component waterborne epoxy is ideal for use on properly prepared interior & exterior ferrous metal, galvanized metal, wood, plaster, masonry and drywall surfaces. Examples include commercial and institutional walls, ceilings, machinery, piping, and cabinets. It is an excellent floor coating for residential, commercial and institutional use and will withstand strong solvents and cleaning compounds.

Recommended For

Concrete, wood, plaster, drywall, masonry, metal, aluminum. For use on lockers, doors, tanks, equipment, structural or support steel, bar joists, roof decks, catwalks, stairs and piping. For protecting schools, healthcare facilities and food processing plants and concrete floors.

Limitations

- If used as a floor coating, consider the need for an anti-slip aggregate
- Gloss reduction on exterior surfaces
- Slight ambering in the presence of U.V. light and ammonia compounds

Product Information

Mixing Instructions:

This two-component product is mixed as a 4 to 1 ratio by volume of components "A" to "B." First, mix each component separately until uniform, then combine components "A" & "B" and mix thoroughly (5 minutes) or until homogeneous. For best results, use a spiral mixing blade in a variable speed (400-600 rpm) electric drill. Place the spiral mixing blade at the bottom of the container before turning on the mixer. This will help avoid inducting air into the material. Inducted air will cause "bubbles" in the coating when applied. Gently move the mixer head up to the surface while running. Do not remove the head while it is still spinning. Allow the combined components to sit for an induction time of 30 minutes, then lightly stir again to ensure uniformity. This product has a workable pot life of 6-8 hours at 70° F. Applying the material immediately after the 30 minute's induction time will provide best results.

Note: Higher air and mixture temperatures will decrease the pot life and working time.

Colors: —Standard:

Clear(00), Safety White (08), Gray Primer (70), Platinum, Gray (073), Battleship Gray (075) and Safety Black (82)

MUST BE MIXED WITH P42-84 CATALYST

—Tint Bases:

Benjamin Moore[®] Color Preview[®] Bases P42-1B, P42-2B, P42-3B, P42-4B
MUST BE MIXED WITH P42-84 CATALYST

—Special Colors:

Contact your Benjamin Moore & Co., Limited representative

Certification:

VOC Compliant in all regulated areas except the South Coast and areas of California that follow the 2007 Suggested Control Measures.

Master Painter Institute MPI #115



Technical Assistance:

Available through your local authorized independent Benjamin Moore[®] retailer. For the location of the retailer nearest you, call 1-800-826-2623, see www.benjaminmoore.com, or consult your local Yellow Pages.

Technical Data[◇]

	Pastel Base
Vehicle Type	Waterborne Polyamide Epoxy
Pigment Type	Titanium Dioxide, select Inerts
Volume Solids (mixed as recommended)	39% mixed
Coverage per Gallon at Recommended Film Thickness	215 – 320 Sq. Ft.
Recommended	5.0 – 7.5 mils
Film Thickness – Wet	2.0 – 3.0 mils
Film Thickness – Dry	2.0 – 3.0 mils
Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.	
Dry Time @ 77° F – To Touch	½ Hour
– To Recoat*	4 Hours
(25° C) @ 50% RH – Full Cure	7 – 10 Days
*If top coat is not applied within 72 hours abrade the surface to ensure proper inter-coat adhesion. Maximum abrasion and chemical resistance are achieved at full cure; care should be taken to prevent damage to the coating during the curing process. High humidity and cool temperatures will result in longer dry, recoat and cure times.	
Dries By	Chemical Cure
Dry Heat Resistance	250° F
Viscosity (mixed as recommended)	85 ± 5 KU
Flash Point	None
Gloss / Sheen	Gloss(75 – 85 @ 60°)
Surface Temperature – Min. at Application	60° F
– Max	90° F
Surface must be dry and at least 5° above the dew point.	
Thin With	Clean Water
Clean Up Thinner	Clean Water
Mixed Ratio (by volume)	4:1
Induction time @ 77° F	30 minutes
Pot Life @ 77° F	6 – 8 Hours
Weight Per Gallon (mixed as recommended)	10.9 lbs
Storage Temperature – Min.	40° F
– Max	90° F

Volatil Organic Compounds (VOC)

173 Grams / Liter* 1.45 LBS / Gallon* * Catalyzed

[◇]Reported values are for Pastel Base. Contact Benjamin Moore & Co. for values of other bases or colors.

Super Spec HP® Waterborne Polyamide Epoxy High Gloss Enamel P42

Surface Preparation

Surfaces to be coated must be clean, dry, and free of oil, grease, dust, flaky rust, mill scale, salts, loose paint, chalk, mildew, and other foreign matter that could interfere with adhesion. Remove oil, grease, salts and chalk by cleaning with Super Spec HP® Oil and Grease Emulsifier (P83) according to label directions. Glossy existing coatings should be dulled by abrading the surface.

For optimal performance ferrous metal substrates should be cleaned and profiled by Commercial Blast Cleaning to SSPC-SP6 to remove mill scale, rust, and other contaminants and leave a roughened surface. Use of Power Tool Cleaning to Bare Metal SSPC-SP11 to remove mill scale, rust, and other contaminants and leave a roughened surface is an acceptable alternative under normal ambient conditions.

Non-ferrous metal surfaces should be degreased with Super Spec HP® Oil & Grease Emulsifier (P83) and abraded with very fine sandpaper or a synthetic steel wool pad to promote adhesion.

Concrete and masonry substrates should be clean, dry and free of oil, grease, form release agents and curing compounds. New concrete and masonry must be allowed to cure 28 days.

Smooth dense concrete surfaces should be acid etched or mechanically profiled to provide a suitable anchor pattern.

WARNING! If you scrape, sand or remove old paint, you may release lead dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Primer/Finish Systems

New surfaces should be fully primed, and previously painted surfaces may be primed or spot primed as necessary.

Ferrous Metal (Steel and Iron):

Primer: Super Spec HP® Waterborne Polyamide Epoxy Metal Primer (P42-70) or Universal Metal Primer (P07)

Finish: 1 or 2 coats Super Spec HP® Waterborne Polyamide Epoxy High Gloss Enamel (P42)

Non-Ferrous Metal (Galvanized & Aluminum): All new metal surfaces must be thoroughly cleaned with Super Spec HP® Oil & Grease Emulsifier (P83) to remove contaminants. New shiny non-ferrous metal surfaces that will be subject to abrasion should be dulled with very fine sandpaper or a synthetic steel wool pad to promote adhesion

Primer: Super Spec HP® Waterborne Polyamide Epoxy Metal Primer (P42-70)

Finish: 1 or 2 coats Super Spec HP® Waterborne Polyamide Epoxy High Gloss Enamel (P42)

Vertical Smooth Poured or Pre-Cast Masonry Surfaces including Brick:

Primer (Dry Environments): Super Spec® Masonry Interior / Exterior 100% Acrylic Masonry Sealer (N/066)

Primer (Wet or Corrosive Environments): Super Spec HP® Waterborne Polyamide Epoxy Metal Primer (P42-70)

Finish: 1 or 2 coats Super Spec HP® Waterborne Polyamide Epoxy High Gloss Enamel (P42)

Masonry; Rough or Pitted:

Primer (Dry Environments): Super Spec® Latex Block Filler (160) or Super Spec® Masonry Interior/Exterior Hi-Build Block Filler (206)

Primer (Wet or Corrosive Environments): Super Spec HP® Waterborne Epoxy Block Filler (P31)

Finish: 1 or 2 coats Super Spec HP® Waterborne Polyamide Epoxy High Gloss Enamel (P42)

Concrete Floors:

Primer: Super Spec HP® Fast Dry Epoxy Floor Sealer / Finish (P41) or Waterborne Polyamide Epoxy High Gloss Enamel Clear (P42-00)

Finish: 2 coats Super Spec HP® Waterborne Polyamide Epoxy High Gloss Enamel (P42)

Drywall and Plaster:

Primer (Dry Environments): Fresh Start® All-Purpose 100% Acrylic Primer (N023) or Fresh Start® 100% Acrylic Superior Primer (046)

Primer (Wet or Corrosive Environments): Super Spec HP® Waterborne Polyamide Epoxy Metal Primer (P42-70)

Finish: 1 or 2 coats Super Spec HP® Waterborne Polyamide Epoxy High Gloss Enamel (P42)

Wood:

Primer: Super Spec HP® Waterborne Polyamide Epoxy Metal Primer (P42-70), Fresh Start® All-Purpose 100% Acrylic Primer (N023) or Fresh Start® 100% Acrylic Superior Primer (046)

Finish: 1 or 2 coats Super Spec HP® Waterborne Polyamide Epoxy High Gloss Enamel (P42)

Repaint, All Substrates: Prime bare areas with the primer recommended for the substrate above.

Application

Stir thoroughly before and occasionally during use. Apply one or two coats. For best results, use a Benjamin Moore® Professional custom-blended nylon/polyester or china bristle brush, Benjamin Moore® Professional roller, or a similar product. This product can also be sprayed.

Spray, Airless: Fluid Pressure — 1500 - 2500 PSI;
Tip — .013 - .017 Orifice

Thinning/Cleanup

Do not thin.

Clean all equipment immediately after using with soap and water. Spray equipment should be given a final rinse with mineral spirits to prevent corrosion.

USE COMPLETELY OR DISPOSE OF PROPERLY. This product contains components which may cause adverse effects to the environment if handled improperly. Dry, empty containers may be recycled in a can recycling program. **Local disposal requirements vary; consult your sanitation department or state-designated environmental agency for local disposal options.**

Environmental, Health & Safety Information.

Contains: Glycol Ethers, Epoxy Resin, Epoxy Amine Curing Agent

CAUSES IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC SKIN REACTION

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of both components. Before opening packages, read all warning labels. Follow all precautions.

NOTICE: Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

Use only with adequate ventilation. Do not breathe vapors or sanding dust. Avoid contact with eyes, skin and clothing. May cause allergic skin reaction. Wear eye protection, gloves and protective clothing during application and cleanup. Ensure fresh air entry during application. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor levels are above applicable limits, wear an appropriate, NIOSH approved, properly fitted respirator during and after application. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Wash thoroughly after handling. Close container after each use.

WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

FIRST AID: If affected by inhalation of vapors or spray mist, remove to fresh air. In cases of eye contact, flush immediately with water for at least 15 minutes and call a physician immediately; for skin, remove contaminated clothing and wash with soap and water for at least 15 minutes. In case of ingestion, DO NOT INDUCE VOMITING, get medical help immediately.

IN CASE OF: FIRE — Use foam CO2, dry chemical or water fog.
SPILL — Absorb with inert material and dispose of as specified under "Clean Up".

KEEP OUT OF REACH OF CHILDREN

Refer to Material Safety Data Sheet for additional health and safety information.