

INDUSTRY QUESTIONS

1. Specification 31 23 00.00 20 Section 3.4.1 Proof Rolling states, "Rutting or pumping of material shall be undercut as directed by the Contracting Officer and replaced with fill and backfill material. Bids shall be based on replacing approximately 10 square yards, with an average depth of 12" at various locations". Please confirm unstable soil (over the base bid pricing) directed by the contracting officer for removal will be viewed as an unforeseen site conditions and subtracted out of optional unit quantities accordingly.

NASA RESPONSE: NASA will ascertain cases of differing site conditions and will address as warranted per contract. Refer to Federal Acquisition Regulation Clause 52.236-2 Differing Site Conditions. Predisposed blanket determinations cannot be made. Further, Contractor is required to provide sufficient evidence and proper notification of unsuitable soil. Subgrade that has been left exposed, saturated, damaged, or deteriorated due to Contractor failure to protect the subgrade or Contractor negligence, per contract will not be deemed as unsuitable soil or a differing site condition.
2. Specification 31 23 00.00 20 Section 3.9.1 Airfield Pavements states, "Compact top 24 inches below finished pavement or top 12 inches of subgrades, whichever is greater, to 100 percent ASTM D1557, compact and backfill to 100 percent ASTM D 1557." Please confirm WFF intent to compact the top 12" of subgrade is to remove 12" of material, scarify, place 6" of previously excavated material, compact to 100 ASTM D1557, and place remaining 6" of excavated material, and compact to 100 percent of ASTM D1557.

NASA RESPONSE: Yes. Build in accordance with plans and specifications. Also refer to last sentence of Section 31 23 00.00 20 paragraph 3.9. The proper compaction/density of the top 12" of subgrade is required as specified.
3. Specification 31 23 00.00 20 Section 3.9 Compaction states, "Determine in-place density of existing subgrade, if required density exists, no compaction of existing subgrade will be required." If required density exists will the top 12" of the subgrade be required to be removed and re-compacted?

NASA RESPONSE: No. If required density exists (100% ASTM D1557 and passing proof roll) then additional compactive effort is not required. However, due to likelihood that in-situ soils many not meet the 100% ASTM D1557 requirement, bids shall include cost to properly compact the 12" of subgrade. This is a contract requirement.
4. Specification 32 13 11 Section 1.5.6.1 Pilot Lane states, "The test section shall consist of one paving lane at least 400 feet long and shall be constructed to the same thickness as the thickest portion of pavement shown on the drawings." Please confirm the PCC test section will be allowed to be completed as part of the production paving.

NASA RESPONSE: Yes, however, if the test lane fails then it shall be removed and replaced since it will be in the location of production pavement. Multiple test lanes may be required prior to acceptance and the Contractor allowed to move on to production pavement. Refer to Section 32 13 11 paragraph 1.5.6. Build in accordance with plans and specifications.

INDUSTRY QUESTIONS

5. Specification 32 13 11 Section 2.10.5 e. states, "Clary screeds, other rotating tube floats, or bridge deck finishers are not allowed on mainline paving." Please provide clarification of mainline paving. Is the current area scheduled for PCC pavement considered to be mainline paving?
NASA RESPONSE: Yes. The current area scheduled for PCC Pavement is considered to be mainline paving.
6. Please confirm if the Site Superintendent and Site Safety Health Officer can dual hat responsibilities.
NASA RESPONSE: No, the Site Superintendent and Site Safety Health Officer cannot dual hat responsibilities. Refer to Section 01 35 26 Paragraph 1.5.1.1.
7. Will radio contact with the tower be required for the duration of the project?
NASA RESPONSE: Yes, refer to Section 01 35 13 Paragraph 3.1.7.
8. If radios are required for constant contact with the tower will these radios be provided to the awarded contractor?
NASA RESPONSE: Yes, as defined in Section 01 35 13 Paragraph 3.1.7.
9. Specification 01 11 00 Section 1.6 Work Scheduling states, "Normal duty hours for work shall be from 8:00am to 4:30pm, Monday through Friday." Day and night time operations will be required for the project. Will WFF approve 24 hour access during high production periods?
NASA RESPONSE: Extended work hours may be approved on a case by case basis when properly requested by the Contractor, refer to the contract section H.10.4.
10. Please provide location, type, and service size for nearest water line hook up to service the batch plant.
NASA RESPONSE: Fire Hydrants on 8" water lines exist within 800' of the only acceptable Batch Plant location which is on RW17. The 8" line also runs beside the batch plant location, if a batch plant is needed.
11. Please provide location, type, and services size for nearest electric hook up to service the batch plant. Are there any power constraints due to NASA launches?
NASA RESPONSE: 480v is available at the batch plant site (RW17), however there may not be sufficient ampacity to power the plant. Contractor will need a transformer to step down voltage for trailers or labs. Capacity of 480v service will not support batch plant. NASA launches will not affect power constraints.
12. How was perched groundwater at 2' and groundwater elevation at 21 Ft below ground surface determined?
NASA RESPONSE: Conditions as described in Section 31 23 00.00 20 Paragraph 1.5.d are typical of the site.

INDUSTRY QUESTIONS

13. Were Soil Borings performed to determine groundwater elevations? If so please provide.
NASA RESPONSE: Soil borings were not performed for this specific project, however general site conditions have been provided in Section 31 23 00.00 20 Paragraph 1.5.d based on historical data in the area.
14. Drawing B-601 and B-602 states “cores” were taken, however, please provides depth of clay and other materials to determine method of execution.
NASA RESPONSE: The core summaries provided in B-601 and B-602 are a collection of core reports that span over a nine year period. If subgrade materials are noted, samples were retrieved via a hand auger and classified accordingly.
15. Please provide Design values for Pavement section specified.
NASA RESPONSE: The design value is a portion of the basis of design, which is not a required item of the construction package. This will not be provided.
16. Specification 31 23 00.00 20 section 2.1.7 Backfill and Fill Material states, “ ASTM D2487, classification GW, GP, GM, SW, SP, SM” Please confirm satisfactory material CL and ML will be allowed as backfill and fill materials.
NASA RESPONSE: Build in accordance with plans and specifications. If CL and ML soils are discovered on site and are suitable then they can be utilized onsite as subgrade, backfill, and fill materials. Imported fill and backfill cannot be CL or ML soils.
17. Specification 31 23 00.00 20 section 3.9.1 Airfield Pavements states, “Compact top 24 inches below finished pavement or top 12 inches of subgrades, whichever is greater, to 100% of ASTM D1557; compact fill and backfill material to 100% of ASTM D1557.” In order to compact the top 24” or 12” of the subgrade, material will be required to be removed and backfilled. If CL and ML materials are apparent throughout the whole project and do not meet the Backfill and Fill Material specifications shall contractors assume if CL or ML is encountered, material shall be brought in meeting Specification 31 23 00.00 20 section 2.1.7 Backfill and Fill Materials?
NASA RESPONSE: Build in accordance with plans and specifications. Refer to Section 31 23 00.00 20 Paragraph 2.1.1. In-situ CL and ML soils are satisfactory per contract. Imported fill and backfill cannot be CL or ML soils.
18. Drawing B-601 and B-602 list CBR values based on core data. Please confirm ASTM guidelines and procedures listed in ASTM D4429-09a were used to determine calculated CBR values.
NASA RESPONSE: CBR are correlations of in-situ testing by a Dynamic Cone Penetrometer.
19. If CBR values differ significantly from what is provided in drawing B-601 and B-602 will this be viewed as a differing site condition.
NASA RESPONSE: NASA will ascertain cases of differing site conditions and will address as warranted per contract. Refer to Federal Acquisition Regulation Clause

INDUSTRY QUESTIONS

52.236-2 Differing Site Conditions. Pre-disposed blanket determinations cannot be made. Further, Contractor is required to provide sufficient evidence and proper notification of differing site conditions. Subgrade that has been left exposed, saturated, damaged, or deteriorated due to Contractor failure to protect the subgrade or Contractor negligence, per contract will not be deemed as a differing site condition. The project shall be bid for PCC pavement with the requirement to properly compact the top 12" of subgrade per 31 23 00.00 20 3.9.1.

20. Has consolidation due to cohesive soils in sub-base been factored into the Design values?
NASA RESPONSE: Appropriate Geotechnical considerations have been made in the design.
21. Specification 32 13 11 Section 2.10.7 Texturing Equipment is apparently missing 2.10.7 b. Assuming section b. are the requirements for Burlap Drag, will WFF be able to provide?
NASA RESPONSE: Burlap drag has been intentionally removed and is disallowed. Broom finish is the only acceptable finish for this project and must be performed with a finishing, curing, and texturing machine. Refer to the contract.
22. Power for Batch plants—where is it coming from?
NASA RESPONSE: Refer to response for question #11.
23. Expansion joint sealant depth is shown on Details "Sawed Joint E" and "Expansion Joint F" "Drawings at 3/8", Specs say 1/4", we are presuming the depth to sealant will be 1/4", please clarify.
NASA RESPONSE: Specifications take precedence over drawings. Required maximum sealant depth is 1/4".
24. Please provide NAVFAC Basis of Design for the project.
NASA RESPONSE: Basis of design is not part of the solicitation package and will not be provided.
25. Specification 01 32 17.00 20 section 1.4 Software states Primavera P3, Primavera SureTrak, or Primavera P6 are the only allowed scheduling software to be used. Please confirm.
NASA RESPONSE: Only Primavera P3, Primavera SureTrak or Primavera P6 are allowed as stated in specification 01 32 17.00 20 1.4.
26. Specification 01 32 17.00 20 section 1.5 Qualifications states, "The designated Scheduler for the project shall have prepared and maintained at least 3 previous schedules of similar size and complexity of this contract using Primavera P3, Primavera SureTrak, or Primavera P6." Please provide clarification to the requirements of similar size and complexity.

INDUSTRY QUESTIONS

NASA RESPONSE: Similar dollar value, similar phasing of multiple concurrent phases of work, experience with Federal Scheduling requirements.

27. Specification 01 32 17.00 20 section 1.6.2.4 Anticipated Weather Delays states, “The contractor shall use the National Oceanic and Atmospheric Administrations (NOAA) historical monthly averages for the NOAA location closest to the project site as the basis for establishing a “Weather Calendar” showing the number of anticipated non-workdays for each month due to adverse weather.” It is requested that WFF provide the contractor established “Weather Calendar” based off of NOAA historical monthly averages. This way all bidding contractors will anticipate the same weather days for given months during the bidding process.

NASA RESPONSE: The NOAA average weather data is available online for all to use for consistency at the following address: <http://www.ncdc.noaa.gov/>.

28. Specification 01 32 17.00 20 section 1.6.2.4 states, “A lost workday due to weather conditions is defined as a day in which the Contractor cannot work at least 50 percent of the day on the impacted activity.” Please confirm that impacted activities are defined as critical path activities unable to be completed due to weather.

NASA RESPONSE: Yes. Impacted activities are defined as critical path activities unable to be completed due to weather that exceeds the NOAA average and falls on scheduled work days that are impacted by at least 50 percent of the day of the impacted activity.

29. Specification 01 33 00 Section 1.5.1 states to submit six copies of submittals. Will WFF entertain using an online submittal tracking system to eliminate the requirement for hard copies?

NASA RESPONSE: No, an online tracking system can be utilized but hard copies are still required and the receipt and review times are counted from the date the Government receives the hard copy.

30. Specification 01 33 00 section 1.9.1 Review Notation states, “Contracting Officer review will be completed within 30 calendar days after date of submission.” 30 calendar days is a significant review period. Please provide clarification if 30 calendar days will be taken to review all submittals.

NASA RESPONSE: Refer to specification 01 33 00 1.9.1. The Contractor shall factor a 30 day review period for the Government into the schedule for all submittal reviews, the 30 day also applies for any required re-reviews for disapproved submittals and will not be considered as a cause for contract extension. NASA may not take the entire 30 days to review the submittals, however, contractually this the time period that the Contractor shall build into the schedule.

31. Specification 01 14 00 Section 1.2 a. states, “The Contractor must conduct his operations so as to cause the least possible interference with normal operations of the activity. Either Runway 10-28 or Runway 4-22 must be operational at all times.” Specification 01 35 13 Section 1.2.2 a. states, “The “approach-departure clearance surface” is an extension of the

INDUSTRY QUESTIONS

primary surface and the clear zone at each end of the runway, for a distance of 50,000 feet.” Will bidding contractors be required to be out of approach-departure clearance surfaces during exercises?

NASA RESPONSE: Yes, however, just during the actual approach or departure of the aircraft, refer to the requirement for Contractor to maintain radio contact with the Tower.

32. Please provide clarification on operational requirements to keep either Runway 10-28 or Runway 4-22 open.

NASA RESPONSE: As stated in the specification, either RW 10-28 or RW 4-22 must remain operational at all times, no construction work can impact the RW that is operational for any reason.

33. If contractors are required to be outside approach –departure clearance surfaces please provide estimated per day and duration of potential delays.

NASA RESPONSE: This is based on Airfield Operations and will vary. Refer to response to question #31.

34. Specification 01 45 00.00 40 Section 1.3.2.1 Management and Organization states, “The approved QC Manager shall be onsite daily, full time, no work can be performed unless the QC manager is onsite.” Please confirm alternate QC managers will be acceptable to perform inspections for the project QC manager periodically as work commences. This project will have multiple definable feature of work (DFOW)’s being completed simultaneously. One QC manager will have difficulty being in all places at once.

NASA RESPONSE: An approved Alternate QC, that meets all the requirements of the full time CQC, is allowed to operate as the QC for isolated periods or to work under the CQC. It is understood that multiple QC managers or Alternate QC managers will be necessary for this project that all report to the primary CQC Manager.

35. Specification 01 45 35 Section 1.3.5 Special Inspector (SI) states, “A qualified person retained by the contractor and approved by the Contracting Officer as having competence necessary to inspect a particular type of construction requiring Special Inspections. The SI must be an independent third party hired directly by the Prime Contractor.” Can the Quality Control Manager perform the tasks required for the Special Inspector? Or is the Special Inspector required to be a third party inspector hired by the prime contractor?

NASA RESPONSE: No, CQC cannot be the Special Inspector. The Special Inspector must be an independent third party hired directly by the Prime Contractor.

36. Specification 01 45 35 Section 3.1.2 Special Inspector states, “Inspect all elements of the project for which the special inspector is qualified to inspect and are identified in the Schedule of Special Inspections.” Are the special inspections confined to just earthwork activities or all work elements?

NASA RESPONSE: Yes, pertains to earthwork activities.

INDUSTRY QUESTIONS

37. Please provide Special Inspectors Schedule of Special Inspections for review.
NASA RESPONSE: Refer to the response to question #36, this is for earthwork activities, including but not limited to proof roll, compaction, protection, etc.
38. Specification 01 45 35 Section 3.1.2 Special Inspector states, "Inspect all elements of the project for which the special inspector is qualified to inspect and are identified in the Schedule of Special Inspections." The special inspector is required to be a registered engineer. As such one could argue the special inspector is qualified to inspect all work elements completed within this project. Please confirm the special inspector will be required to inspect all definable features of work. If all definable features of work are not required to be inspected by the special inspector please delineate what definable features of work will be required to be inspected.
NASA RESPONSE: Refer to the response to question #36.
39. Will contractors with WFF badges be allowed to go through Gate 6 during construction?
NASA RESPONSE: No, Gate 6 will not be in use. The only batch plant location allowed will be on RW17 and this will be accessed via the NASA main gate for all Contractor vehicles except for loaded dump trucks which will access via the NOAA gate onto TW Echo as shown on the plans.
40. Specification 01 50 00 section 3.4.3 Storage Area states, "Construct a temporary 6 foot high chain link fence around trailers and materials." Please confirm material stockpile areas will need 6 foot high chain link fence installed around the entire perimeter of the staging area.
NASA RESPONSE: Stockpiles other than the materials needed for batching will not be required to be protected by 6' high chain link fence. The batch plant, office area, staging, etc. will be required to be protected by 6' chain link fence. Plastic strips will not be required, and if properly installed to protect against wind loading metal skid plates will be acceptable.
41. Specification 01 50 00 section 3.4.3 Storage Area requires plastic strip inserts for all temporary fence. The plastic inserts pose a potential FOD hazard. Will the plastic inserts be required?
NASA RESPONSE: Please refer to the response to question #40.
42. Please provide location of Supplemental Storage Area.
NASA RESPONSE: Staging will be allowed on half of RW17, additional areas may be considered however numerous Airfield and satellite masking restrictions makes locations for staging and storage other than on RW17 difficult.
43. Specification 01 50 00 section 3.4.6 Maintenance of Storage Area states, "Mow and maintain grass located within the boundaries of the construction site for the duration of the project. Grass and vegetation along fences, buildings, under trailers, and in areas not accessible to mowers will be edged or trimmed neatly." Please define what the required

INDUSTRY QUESTIONS

lawn mowing frequency (1/month?) is?

NASA RESPONSE: Once per month can be assumed to be sufficient.

44. Would maintaining and cutting of the grass fall under WFF's current base maintenance guidelines? If so please provide for bidding purposes.
NASA RESPONSE: No. Contractor is responsible per contract. This is for mowing of grass that falls within the Contractor's staging area, batch plant area, laydown area, etc., not for the entire Airfield.
45. Specification 01 50 00 section 3.8 Restoration of Storage Area states, "Restore to the original or better condition, areas used by the contractor for the storage of equipment or material, or other used. Gravel used to traverse grassed areas must be removed and area restored to its original conditions, including top soil and seeding." Batch Plant locations are located on drawings G-003 and G-004. Please confirm the Batch Plant locations will be the same locations for Staging areas. If not please provide drawings with locations.
NASA RESPONSE: Staging area will be allowed at the batch plant location, the only acceptable batch plant location will be on RW17. All storage and stock pile areas will also be on half of RW17. The western half of RW17 must be left open and FOD free for aircraft access to the hot pad.
46. How long do badge requests take to process?
NASA RESPONSE: Varies per demand at security office, this is up to the Contractor to schedule. There will be approximately 60 days from award to Notice to Proceed which will allow sufficient time for badging. All required Contractor personnel shall be badged prior to any scheduled activity for construction.
47. When personnel go to appointments at the Badging Office to pick up individual badges, how much time should be estimated for duration of appointment?
NASA RESPONSE: Please refer to the response to question #46. This depends on the demand at the office at the time. It is safe to assume however that badging (once an appropriate appointment has been made and all required information has been provided) can take anywhere from 1 hour to 5 hours to complete the process. Further, if the badging office is unduly busy, the personnel may be turned away and asked to return another day for badging. Supplying the proper documentation, properly scheduling appointments, and ensuring that personnel are badged prior to work occurring on the construction schedule is the responsibility of the Contractor. Sufficient time will exist between award and the start of work for badging to occur. Delays to work due to badging concerns is not a reason for a contract extension.
48. Specification 02 41 00 Section 3.1.2 Paving and Slabs states, "Remove concrete and asphalt concrete paving as indicated. Provide neat sawcuts at limits of pavement removal as indicated." Note 12 on C-001 states, "Provide straight sawcut (Maximum of 2 inch depth) at new to existing AC interface." Please confirm the only HMA needing to be sawcut at the interface of new to existing AC are labeled by Note 12.

INDUSTRY QUESTIONS

NASA RESPONSE: Refer to Details CD501 Detail D (demolition note 12), and CS502 Detail F (new work notes 11 and 12) for clarification. ALL limits of pavement removal from existing pavement to remain to the limits of pavement to be removed shall be sawcut.

49. Specification 31 23 00.00 20 section 3.1.1.1 Drainage states, "So that construction operations progress successfully, completely drain construction site during periods of construction to keep soil materials sufficiently dry." Please provide clarification how significant rain events leading to unsuitable work platforms will be addressed in light of unforeseen weather site conditions.

NASA RESPONSE: Plans and specifications do not provide means and methods for contractor to accomplish the required work. During periods of construction the construction site shall be completely drained and maintained to be sufficiently dry. If the subgrade is maintained properly to drain at all times during construction then the frequency of rain events is immaterial to a differing site condition. The Contractor is also directed to be diligent in scheduling the exposure of the subgrade. It is not advised to open the subgrade for a period when heavy rain events are forecasted. Any potential impacts for weather related events will be considered for time extension only as also described in the response to question #28.

50. Specification 31 23 00.00 20 section 3.1.1.1 Drainage states, "It is the responsibility of the Contractor to assess the soil and ground water conditions presented by the plans and specifications and to employ necessary measures to permit construction to proceed." Please confirm that if the Contractor finds soil and ground water condition differences between the plans and specifications and what is found in the field that this will constitute a differing site conditions.

NASA RESPONSE: NASA will ascertain cases of differing site conditions and will address as warranted per contract. Refer to Federal Acquisition Regulation Clause 52.236-2 Differing Site Conditions. Pre-disposed blanket determinations cannot be made. Further, Contractor is required to provide sufficient evidence and proper notification of differing site conditions. Sites that have been left exposed, saturated, damaged, or deteriorated due to Contractor failure to protect the site or due to Contractor negligence, per contract will not be deemed as a differing site condition.

51. Specification 31 23 00.00 section 3.1.1.1 Drainage states, "the area affecting operations at the site shall be continually and effectively drained." Please confirm contractor will be required to continually and effectively drain the site for typical NOAA monthly weather days to be accounted for. In the event weather days are outside NOAA monthly averages required drainage will be viewed as an unforeseen site condition.

NASA RESPONSE: The contract requires the subgrade to be maintained, drained and protected by the Contractor continually, therefore the number of weather days is immaterial. NASA will ascertain cases of differing site conditions and will address as warranted per contract. Refer to Federal Acquisition Regulation Clause 52.236-2 Differing Site Conditions. Predisposed blanket determinations cannot be made. Further,

INDUSTRY QUESTIONS

Contractor is required to provide sufficient evidence and proper notification of differing site conditions. Sites that have been left exposed, saturated, damaged, or deteriorated due to Contractor failure to protect the site or due to Contractor negligence, per contract will not be deemed as a differing site condition. Since the Contractor is required to only demolish and expose subgrade no more than can quickly be recovered, then large expanses of unprotected subgrade should never become an occurrence.

52. Specification 31 23 00.00 Section 3.3 Excavation states, "Excavate to contours, elevation, and dimensions indicated." How shall contractors achieve compaction requirements stated in section 3.9.1 if specifications only allow excavating to stated contours and elevations?

NASA RESPONSE: Build in accordance with plans and specifications. Contractor is to construct per both 31 23 00.00 3.3 and 3.9.1. Section 3.9.1 directs the Contractor to the required work in those areas.

53. Specification 31 23 00.00 Section 3.3 Excavation states, "Reuse excavated materials that meet the specified requirements for the material type required at the intended location." Please confirm CL and ML materials will be acceptable to use as backfill and fill materials.

NASA RESPONSE: Build in accordance with plans and specifications. If in-situ material meets satisfactory material specifications and can be conditioned to meet required density the in-situ material may be reused in-place however it must satisfy performance requirements of Specification 31 23 00.00 20 including Paragraph 3.4.1. Under no circumstance will imported CL and ML material be used on site from an off-site location.

54. Specification 31 23 00.00 Section 3.3 Excavation states, "Excavation below indicated depths will not be permitted except to remove unsatisfactory material." Please confirm that excavation will be allowed below indicated depths to meet compaction requirements listed in section 3.9.1.

NASA RESPONSE: Excavation per 3.9.1 is not only allowed, it is required. Build in accordance with plans and specifications.

55. Specification 01 50 00 Section 3.4.6 Storage Area states, "Construct a temporary 6 foot high chain link fence around trailers and materials. Include plastic strip inserts, colored green, so that visibility through the fence is obstructed. Fence posts may be driven, in lieu of concrete bases, where soil conditions permit." Will temporary fencing with a metal skid base plate be acceptable?

NASA RESPONSE: Please refer to the response to question #40.

56. Specification 31 23 00.00 Section 3.3.3 Final Grade of Surfaces to Support Concrete states, "Excavation to final grade shall not be made until just before concrete is to be placed." Please provide clarification on sequencing of demolition and excavation to final grades. Significant price increase will be added if contractors are only allowed to remove

INDUSTRY QUESTIONS

small sections of concrete (ie. One lane of PCC removed one lane of PCC placed).

NASA RESPONSE: Build in accordance with plans and specifications. Both protection of subgrade and proper phasing of work is the responsibility of the Contractor.

Contractor cannot expose more subgrade than what can be replaced. If the Contractor chooses to expose more subgrade than they can cover or protect, then the Contractor has assumed that risk and will be required to correct any deterioration of that subgrade at no cost to the Government.

57. Specification 31 23 00.00 Section 3.4 Subgrade Preparation states, “When subgrades are less than the specified density, the ground surfaces shall be broken up to a minimum depth of 6 inches, pulverized, and compacted to the specified density.” To meet the compaction requirements of section 3.9.1 please confirm the intent is to remove 12 inches of subgrade (or compact 24” inches below finished pavement), scarify to a depth of 12”, place 6” of removed material, Compact to 100% of ASTM D1557, place remaining 6” of removed material, and Compact to 100% of ASTM D1557.
NASA RESPONSE: Build in accordance with plans and specifications. Requirements of 3.9.1 are clear as stated to remove 12 inches of subgrade (or compact 24” inches below finished pavement), scarify to a depth of 12”, place 6” of removed material, Compact to 100% of ASTM D1557, place remaining 6” of removed material, and Compact to 100% of ASTM D1557.
58. Specification 31 23 00.00 Section 3.5.1 Common Fill Placement states, “Use satisfactory materials.” Please confirm CL and ML materials can be used for fill placement.
NASA RESPONSE: Build in accordance with plans and specifications. Refer to Section 31 23 00.00 20 Paragraph 2.1.1 for acceptable material. Please refer to the response to question #53.
59. Specification 31 23 00.00 Section 3.5.2 Backfill and Fill Material Placement states, “Provide for paved areas and under concrete slabs, except where select material is provided.” Please confirm CL and ML materials can be used for backfill placement.
NASA RESPONSE: Build in accordance with plans and specifications. Please refer to the response to question #53.
60. Specification 31 23 00.00 Section 3.5.4 Backfill and Fill Material Placement over Pipes and Walls states, “Backfill shall be brought to indicated finish grade.” Please confirm CL and ML materials can be used for backfill placement over pipes and walls.
NASA RESPONSE: Build in accordance with plans and specifications. Please refer to the response to question #53.
61. Specification 31 23 00.00 Section 3.5.5 Trench Backfilling states, “Backfill as rapidly as construction, testing, and acceptance of work permits.” Please confirm CL and ML materials can be used for trench backfilling.
NASA RESPONSE: Build in accordance with plans and specifications. Please refer to the response to question #53.

INDUSTRY QUESTIONS

62. Specification 31 23 00.00 Section 3.4.1 Proof Rolling states, "Proof roll the existing subgrade of the apron with six passes of a dump truck loaded with 212 cubic feet of soil. Operate the truck in a systematic manner to ensure the number of passes over all areas, and at speeds between 2.5 to 3.5 miles per hour. Notify the Contracting Officer a minimum of 3 days prior to proof rolling. Proof rolling shall be performed in the presence of the Contracting Officer. Rutting or pumping of material shall be undercut as directed by the Contracting Officer and replaced with fill and backfill material." Please provide rutting and pumping limits that will require removal and replacement (ie. Ruts greater than 1inch of deformation will require removal and replacement.).
NASA RESPONSE: This will require a special inspection per Section 01 45 35.
63. Specification 31 23 00.00 Section 3.4.1 Proof Rolling states, "Proof roll the existing subgrade of the apron with six passes of a dump truck loaded with 212 cubic feet of soil. Operate the truck in a systematic manner to ensure the number of passes over all areas, and at speeds between 2.5 to 3.5 miles per hour. Notify the Contracting Officer a minimum of 3 days prior to proof rolling. Proof rolling shall be performed in the presence of the Contracting Officer. Rutting or pumping of material shall be undercut as directed by the Contracting Officer and replaced with fill and backfill material." Please confirm if required compaction is achieved prior to proof rolling rutting and pumping requiring removal and replacement will constitute a differing site condition.
NASA RESPONSE: NASA will ascertain cases of differing site conditions and will address as warranted per contract. Refer to Federal Acquisition Regulation Clause 52.236-2 Differing Site Conditions. Pre-disposed blanket determinations cannot be made.
64. Specification 32 11 23 section 3.5.7 states, "Proof rolling of the areas indicated shall be in addition to the compaction specified and shall consist of the application of 4 coverages with a heavy pneumatic-tired roller having four or more tires, each loaded to a minimum of 30,000 pounds and inflated to a minimum of 125 psi. Any base course materials or any underlying materials that produce unsatisfactory results by proof rolling shall be removed and replaced with satisfactory materials and recompacted and proof rolled to meet these specifications." Please provide clear direction of what the definition of unsatisfactory results are (ie. Deformation greater than 1inch). Bidding contractors need to know exact limits they will be held to in order to estimate how much rework potentially will be needed.
NASA RESPONSE: This will require a special inspection per Section 01 45 35.
65. Specification 32 11 23 section 3.5.7 states, "Proof rolling of the areas indicated shall be in addition to the compaction specified and shall consist of the application of 4 coverages with a heavy pneumatic-tired roller having four or more tires, each loaded to a minimum of 30,000 pounds and inflated to a minimum of 125 psi. Any base course materials or any underlying materials that produce unsatisfactory results by proof rolling shall be removed and replaced with satisfactory materials and recompacted and proof rolled to meet these

INDUSTRY QUESTIONS

specifications.” Please confirm that if compaction is achieved on underlying material unsatisfactory results from the proof roll requiring removal and replacement will be viewed as a unforeseen site condition.

NASA RESPONSE: NASA will ascertain cases of differing site conditions and will address as warranted per contract. Refer to Federal Acquisition Regulation Clause 52.236-2 Differing Site Conditions. Pre-disposed blanket determinations cannot be made.

66. Specification 32 11 23 section 3.6 Traffic states, “Do not allow traffic on completed base course.” Traffic will be required on completed base course. Please confirm intent is to minimize construction traffic as much as possible.

NASA RESPONSE: Build in accordance with plans and specifications. For more information, refer to Section 32 13 11 Paragraph 3.2.2.

67. Are there any wetlands located inside the limits of disturbance?

NASA RESPONSE: No. There are no wetlands located inside the limits of disturbance.

68. Are there any environmental resources outside the limits of permanent work that will need to be protected for the duration of this contract?

NASA RESPONSE: Only as reflected on plans. Outfalls of storm systems shall be protected while construction is in the area of the area of the receiving pipes of said system.

69. Will bidding subcontractors be compensated for asphalt escalation?

NASA RESPONSE: No. This is a firm fixed price contract.

70. Will Prime Coat be required if surfacing can occur at least 7 days after final acceptance of underlying base course?

NASA RESPONSE: Build in accordance with plans and specifications. Refer to Section 32 12 15.13 Paragraph 3.5 and Section 32 12 15.16 Paragraph 3.5.

71. Specification 32 13 11 Section 2.2.2.3 Size and Grading states, “The nominal maximum size of the coarse aggregate shall be 1.5 inch. Grade and furnish the individual aggregates in two size groups meeting the individual grading requirements of ASTM C33/C33M, size No. 4 and Size No. 67 to meet the coarseness and workability factor criteria for the contractor combined gradations.” If bidding subcontractors can meet the workability criteria with Size No. 8 and Size No. 57 aggregates will this be acceptable?

NASA RESPONSE: No. Build in accordance with plans and specifications.

72. Can the Government provide the site walk attendance list?

NASA RESPONSE: The site visit attendance list was posted to FedBizOpps on December 2, 2015.

WALLOPS AIRFIELD REPAIR PROJECT, COF PHASE 1, IFB NNG16568624R

INDUSTRY QUESTIONS

73. Since this is a federal facility, can bidding contractors file a "Tax Exemption Certificate"?
- NASA RESPONSE:** No, bidding contractors cannot file a "Tax Exemption Certificate" Bidding contractors are not purchasing agents on behalf of the Federal Government.
74. Will Wallops Flight Facility personnel provide marking of existing utilities? What will the response time be if an unmarked line is encountered?
- NASA RESPONSE:** WFF will mark all known utilities once. The Contractor is then responsible for maintaining the marks for the duration of the project.
75. Is the existing ground water contaminated? If so will any special dewatering procedures be required?
- NASA RESPONSE:** No. The existing ground water is not contaminated.
76. Can WFF provide the most current Utility Maps of the region in which the construction project is to be constructed?
- NASA RESPONSE:** Known utilities are shown on the construction plans. Utility maps can be provided at the time the utilities are marked.
77. Will construction water be furnished by the Government? Please provide nearest location to project site.
- NASA RESPONSE:** Yes. Please refer to the response to question #10.
78. Is there an onsite borrow area available for use on this project?
- NASA RESPONSE:** No. There is no onsite borrow area available for use.
79. Are there any endangered migratory species habitats located within the work limits where the contractor will be not permitted to work?
- NASA RESPONSE:** No. There are no endangered migratory species habitats located within the work limits.
80. Please specify if there are any historical, archaeological, cultural, or biological resources which special protection will be required.
- NASA RESPONSE:** There are none known.
81. Please confirm New Work Note 8 on drawing C-001 corresponds to specification 32 01 13.00 21 Gilsonite Modified Asphalt Emulsion Seal Coat.
- NASA RESPONSE:** Yes.
82. Specification 32 01 16.17 Section 3.4 Removal of Milled Material states, "Material that is removed must be transported to central plant for hot-mix or warm-mix recycling per approved JMF. The remaining material must be stockpiled. Stockpile location must be as directed by Contracting Officer. Base bids on location being on Wallops Island (not Wallops Island Flight Facility), approximately 12 miles from project site." Please provide

INDUSTRY QUESTIONS

clarification is all demoed material the property of WFF?

NASA RESPONSE: Yes. All demolished asphalt shall be milled, and demolished concrete shall be crushed to a 21 gradation. The milled HMA and crushed PCC can be reused on the project as allowed in the specification. Any excess milled asphalt and crushed PCC will be hauled to an approved stockpile location on Wallops Island and pushed up within the limits provided by the Government and this material will become the property of NASA. All other demolished material will become the property of the Contractor and shall be removed from the base at the conclusion of the project to an approved waste site and will become the property of the Contactor.

83. Please confirm all AC Crack Sealing will be paid on a unit cost basis under estimated quantities Bid Item-0001G AC Crack Sealing.
NASA RESPONSE: No. Refer to New Work Schedule Sheets CS601 through CS604.
84. Specification 32 01 17.16 section 3.1.1 Cracks give sealing requirement for Hairline Cracks, Small Cracks, Medium Cracks, and Large Cracks. Since Bid Item-0001G AC Crack Sealing requests bidding contractors to bid average cracks at 3/8 of inch, if cracks larger than 2inches become apparent how will milling and patch repair work be paid?
NASA RESPONSE: If cracks larger than 2” are apparent beyond what is directed to be repaired already in the base bid portion of the contract, then this would be covered under Bid 0001H, Partial Depth Repair. Any work outside of the base bid of the contract must be verified by the Contracting Officer before this work can commence.
85. Specification 32 01 17.16 section 3.1.1 Cracks give sealing requirement for Hairline Cracks, Small Cracks, Medium Cracks, and Large Cracks. Bid Item-0001G AC Crack Sealing requests bidding contractors to bid average cracks at 3/8 of inch but does not provide an average for length. To effectively provide bid item unit pricing contractor requests an average length be provided for crack sealing as well.
NASA RESPONSE: Price per foot for the estimated total as directed.
86. In a HMA mill and overlay scenario if the milled surface is determined to visually be pumping, how will bidding contractors be directed to proceed in light of Specification 32 12 15.13 Section 1.1 Full Payment?
NASA RESPONSE: Build in accordance with plans and specifications. Mill depths will not expose base material.
87. Specification 32 12 15.13 section 3.6 Test Section states, “The test section shall be the same depth as the course it represents, “Please confirm multiple test section will be required.
NASA RESPONSE: Build in accordance with plans and specifications. Yes, multiple test section will be required.
88. Specification 32 12 15.13 section 3.10.2 Longitudinal Joints states, “Longitudinal joints which are irregular, damaged, uncompacted, cold (less than 175 degrees F at the time of

INDUSTRY QUESTIONS

placing adjacent lane, or otherwise defective, shall be cut back a maximum of 3 inches from the top edge of the lift with a cutting wheel to expose a clean, sound, near vertical surface for the full depth of the course.” Please confirm that joints less than 175 degrees F at time of placing adjacent lane will be required to be cutback.

NASA RESPONSE: Build in accordance with plans and specifications. Yes, joints less than 175 degrees F at time of placing adjacent lane will be required to be cutback or the asphalt lane will be rejected regardless of test results.

89. Specification 32 13 11 Section 3.8.6 Contraction Joints states, “The top of the joint opening and the joint groove at exposed edges shall be tightly sealed with cord backer rod before the concrete in the region of the joint is resprayed with curing compound, and shall be maintained until removed immediately before sawing the joint sealant reservoir.” Please confirm specification intent is after the PCC is green saw cut, cord backer rod shall be installed, and joints resprayed with curing compound.

NASA RESPONSE: Build in accordance with plans and specifications. Yes, the specification intent is after the PCC is green saw cut, cord backer rod shall be installed, and joints resprayed with curing compound.

90. Specification 33 40 00 section 1.1.4 Backfill Replacing Unstable Material states, “Payment will be made for the number of cubic yards of select granular material required to replace unstable material for foundations under pipes or drainage structures, which will constitute full compensation for this backfill material, including removal and disposal of unstable material and all excavating, hauling, placing, compacting, and incidental necessary to complete the construction of the foundation satisfactorily.” Will CL and ML soils be classified as Unstable Materials?

NASA RESPONSE: No. Refer to Section 31 23 00.00 20 Paragraph 2.1.1 on definition of satisfactory material. Please refer to the response to question #53.

91. Will a hydrostatic testing be required on RCP as stated in specification 33 40 00 section 2.6 Hydrostatic Test on Watertight Joints?

NASA RESPONSE: Build in accordance with plans and specifications. Yes, hydrostatic testing will be required as stated in the specifications.

92. If the Contractor can demonstrate that an alternate plant site would provide for more efficient construction and/ or less disruption to airfield activities, will an alternate batch plant site be acceptable?

NASA RESPONSE: No, only RW17 can be used for the batch plant site.

93. Specification 02 41 00 3.1.3 Indicates that demolished concrete is to be recycled to meet a 21A specification and to be stockpile on Wallops Island. Please clarify if the intent is for this material to be reused for this project or if it is intended for other uses by the owner.

NASA RESPONSE: Yes. The material could be reused for this project as

INDUSTRY QUESTIONS

specified in the contract, any excess will be turned over to WFF for other uses as directed in the contract.

94. Specification 02 81 00 Transportation and Handling of Hazardous Waste appears to be missing section 1.1.2 Payment. Please confirm method of payment for these activities.
NASA RESPONSE: It is unlikely that the transportation of hazardous waste will occur. Method of payment will be determined if hazardous wastes are transported or handled.
95. Various sections of the Specifications refer to Section 01 33 29, which appears to be missing from the documents. Please provide a copy of this Section.
NASA RESPONSE: Sustainably reporting is not required in this contract.
96. Specification 01 45 35 Special Inspections details the requirements for a Special Inspector whose functions are specified in the ICC IBC code. These codes are typically applied to construction of buildings. Is it the intent of the owner to apply structure related criteria to the construction of airfield pavements?
NASA RESPONSE: The intent in including this specification is to require a special inspection for earthwork activities such as, but not limited to, proof rolling.
97. Specification 32 13 11 Section 2.10.7 & 3.6.5.1 require the use of broom finishing for the pavement. This is an outdated specification. While broom finishing is a standard for paving pedestrian walkways, it is not used in the paving of highways, runways, taxiways or aprons. The standard UFGS & FAA requirement and practice for texturing these pavements is a burlap drag finish. Please advise if the broom finish requirement is in error or if this is truly the engineer's intent.
NASA RESPONSE: Build in accordance with plans and specifications. Yes, broom finish via a texturing, curing, and finish machine is the only allowable method per contract.
98. Please confirm that Option 2,3 and 4 do not include any spall repair – spall repair only occurs as indicated as ‘Option One’ with the remainder of the spalls in the base bid. Confirm that this is the condition for the remaining work on the “new work schedule sheets”
NASA RESPONSE: All work required to complete the specified scope is required. This is a firm fixed price contract.
99. Sheet CD 123, confirm that note #13 should indicate the area with the horizontal lines and not the clear area.
NASA RESPONSE: Note 13 refers to milling which is represented by the diagonally hatched lines as properly shown on Taxiway Golf.
100. Markings. Are all pavement markings new? i.e. Centerlines, edges etc. or just where we are milling, replacing etc.
NASA RESPONSE: Yes, all markings are new as shown on Plans.

WALLOPS AIRFIELD REPAIR PROJECT, COF PHASE 1, IFB NNG16568624R

INDUSTRY QUESTIONS

101. Please provide average length and depth for Bid Item 0001B.
NASA RESPONSE: Price is to be per cubic yard, utilize the estimated quantity as listed. Payment for this work if encountered will be per cubic yard only, price accordingly.
102. Bid Item 0001D Concrete Full Depth Repair states, "13" Thick Plus Stone". Please confirm thickness of stone.
NASA RESPONSE: Refer to Heavy Duty PCC Section, Sheet CS501. Minimum depth of stone is 6".
103. Please confirm thickness of stone for Bid Item 0001E as well.
NASA RESPONSE: Please refer to the response to question #102
104. Please provide minimum and maximum length for units associated with Bid Item 0001F Concrete Joint Sealant Replacement.
NASA RESPONSE: Price per linear foot, utilize the estimated quantity listed. Payment for this work if encountered will be per linear foot only, price accordingly.
105. Solicitation H.11 1852.243-72 Equitable Adjustments provides ceilings for overhead, profit, and commission. Please provide clarification in light of the Equitable Adjustments how ceilings will be analyzed if maximum percentages are submitted for price adjustments.
NASA RESPONSE: If an Equitable Adjustment is warranted then the requirements of H.11 will be utilized.