

Chapter 4 – Submission Phase Guidelines

4.4.1 80% CONSTRUCTABILITY REVIEW

A. GENERAL INFORMATION

1. The 80% Constructability Review is an optional on-board review/submission that can be used on any project. Best Practice: Use for projects over a \$ 1 million in construction value.
2. The 80% Constructability Review is intended to improve the quality of the 100% Submission documents. The objective is to minimize potential change orders and schedule delays during construction by ensuring that the construction documents are fully coordinated, complete, biddable and buildable. This milestone provides an opportunity for our client, field staff and consultant to review a mature set of documents and discuss outstanding issues (20% gap). This review ensures that the 100% Submission is a thorough and complete submission.
3. The Constructability Review should take place at the project site during the design phase prior to the 100% Submission. It is recommended to occur when the project reaches the 80% contract document completion stage. At this stage there should be enough detailed information to conduct a thorough review while allocating adequate time for the project team to modify their documents. This project milestone is **NOT intended to be a formal submission that needs to be approved by the client**. It does not include a formal estimate. The design team should continue to progress the work for the 100% Submission.
4. The Constructability Review Checklist is a recommended tool to assist the project team on many of the items that should be examined to improve the quality of the review. However, no checklist can be all inclusive and covers all specific project content, characteristics and requirements. Therefore, the **checklist included in this chapter shall be tailored to the project by the Consultant with PM input**.
5. The Consultant shall conduct the Constructability Review with the OGS PM and EIC, client representatives and appropriate sub-consultants at the project site. The Consultant shall **use the checklist as a guide** to document the discussion items and **supplement the guide with meeting minutes** to be distributed the project team.
6. The Constructability Review should address any remaining scope gaps and all outstanding issues to proceed to the 100% Submission. This includes the all discussed items and the **development and finalization of Division 01 specifications. The goal is to have a true 100% complete set of submission documents.**
7. Project team roles and responsibilities are defined in the following sections noted below.

B. OGS PM ROLES AND RESPONSIBILITIES

1. Instruct member of project team of their roles and responsibilities prior to the meeting.
2. Coordinate meeting date at the project site with project team.
 - a. Ensure RS / AS / EIC will have proper representation.
 - b. Ensure client's representatives will be present and prepared for meeting.
3. Evaluate level of document completion. Are they near 80% completion?
4. Input DCNet Interim submission date as the 80% Constructability Review in project remarks.
5. Distribute Constructability Checklist to Consultant in advance of meeting. Instruct Consultant to review, edit and customize the checklist applicable to the project.
6. Instruct Consultant to distribute hard copies of documents in advance of the meeting to the team.
7. Instruct Consultant to continue with project design since this meeting is considered an on-board review.
8. Request gate clearances for team members when necessary.
9. Be prepared to discuss items on checklist. Include additional items not indicated that are relevant to this project / meeting.
10. Take supplemental meeting minutes and back check Consultants minutes prior to publication / distribution of the final minutes to team.
11. Notify the Quality Manager that the meeting took place and responses to meeting comments have been provided in meeting minutes.
12. Have OPC enter the date of this review after the meeting is held.

C. OGS TL PM ROLES AND RESPONSIBILITIES

1. Evaluate level of document completion. Are they near 80% completion? Is everyone prepared for the meeting to be successful?
2. Ensure all parties will be present at the meeting.
3. Attend the meeting to assist the PM and team.

D. CONSULTANT ROLES AND RESPONSIBILITIES

1. Ensure that documents are at 80% completion (including all subs work).
2. Distribute project documents (hard copies) 2-3 weeks prior to the scheduled meeting to field staff, facility staff, planner and PM to review.
3. Review constructability checklist and prefill items that are NA.
4. Be prepared in advance to discuss all items on checklist.
5. Tailor checklist to include additional items not indicated that are relevant to this project.
6. Distribute copies of the checklist at the meeting.
7. Bring appropriate sub-consultants to the meeting.
8. Marked up checklist to be included as backup to the meeting minutes.
9. Take detailed meeting minutes and distribute draft minutes to the PM for review.
10. After PM approval of the draft minutes, distribute final meeting minutes to the project team.
11. Continue to advance / progress project during this review period.

E. FIELD STAFF ROLES AND RERSPONSIBILITIES

1. Review documents and come prepared for discussion.
2. Perform a field check on the project.
3. Ensure facility staff are reviewing documents prior to the meeting.
4. Provide gate clearances when necessary.
5. Be prepared to discuss all checklist items including Division 01 specifications. Include additional items not indicated that are relevant to this project / meeting.

F. PLANNER ROLES AND RESPONSIBILITIES

1. Review documents and come prepared for discussion.
2. Attend the meeting.
3. Facility requests for out of scope items need to be evaluated and approved or disapproved.



4. Be prepared to discuss all items on checklist. Include additional items not indicated that are relevant to this project / meeting.
5. No formal approval for this on-board review is required unless out of scope items are requested.

G. FACILITY RESPONSIBILITIES

1. Review documents and come prepared to the meeting.
2. Ensure that all key staff have reviewed documents and participate in the meeting.
3. Be prepared to discuss all items on checklist. Include additional items not indicated that are relevant to this project / meeting.

H. CHECKLIST (Consultant shall customize list per project and prefill prior to meeting)

ID #	Description	
1.0	Geotechnical	
1.1	Has a geotechnical investigation been done?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
1.2	Has the geotechnical report been completed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
1.3	If subsurface water is present is it properly addressed in documents (dewatering plan, well points, under drains, etc.?)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
1.4	If poor soils are present is it properly addressed in documents?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
1.5	If rock is present is it properly addressed in documents? Is rock clearly defined? Are removal methods defined? Is an assumed volume included in the bid documents?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
1.6	Do documents incorporate geotechnical report recommendations for foundations (deep and shallow), waterproofing, damp proofing, underdrains, subgrade and/or bearing grade preparation, underpinning, sheeting and shoring?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
1.7	Is select fill being imported for this project? Has excess material indicated to be properly disposed either on-site or off-site?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
1.8		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
1.9		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
2.0	Subsurface Utility Investigation	
2.1	Has sufficient field investigation been done to ascertain that contract work can be performed as shown on the plans?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
2.2	Has a subsurface utility investigation been conducted to avoid and resolve conflicts?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
2.3	Have appropriate survey methods been used to identify conflicts?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA



		<input type="checkbox"/> More Info Needed
2.4	Has the appropriate utility documentation quality level been specified for this project - Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data' ASCE Standard CI 38-02 – Quality levels A, B, C or D?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
2.5	Have utility profiles been prepared to identify conflict areas between existing and proposed utilities?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
2.6	Have existing utility capacities for gas, water, sanitary, storm, power, steam, chilled water been analyzed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
2.7	Are as-builts available and if so were they used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
2.8	Do documents include requirements for contractor to locate underground utilities?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
2.9		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
2.10		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
3.0	Topographic Survey	
3.1	Has a site survey been completed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
3.2	Have property boundaries, ROW, easements been identified?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
3.3	Have benchmarks (horizontal and vertical controls) been established?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
3.4		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
3.5		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.0	Site Logistics	
4.1	Identify point of entrance locations and traffic routes for movement of the contractor's equipment, materials and workers to the work locations.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.2	If using existing roads for access is repair work included in documents?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.3	Are provisions and plans for worker parking and routes to and from the work site provided?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.4	Do the drawings indicate where staging/laydown areas for construction equipment, trash/debris receptacles, and material storage and protection will occur?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.5	Locate temporary contractor facilities including trailers, dumpsters, and sanitary facilities	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.6	Identify locations and related work zones for worker/material handling equipment such as cranes, and lifts.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.7	Are there areas with restricted access?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.8	Have permits been secured (ex. DOT, DEC, ACOE, Railroad, etc.)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.9	Are temporary barriers such as fences required?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA



		<input type="checkbox"/> More Info Needed
4.10	Are temporary access roads, parking or sidewalks needed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.11	Are contract limit lines indicated on the site plan?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.12	Identify means of dust/dirt/debris mitigation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.13	Show routing of temporary utilities, lines, and points of tie-in	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.14	Identify means of construction noise mitigation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.15	Are truck wash down areas provided? Is roadway cleaning and storm drain cleaning needed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.16	Show protection of utility poles, existing structures, vegetation, etc.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.17	Are maintenance protection of traffic requirements realistic for site conditions?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.18	Are signing and traffic controls adequate?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.19	Is drainage clearly indicated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.20	Are grading limit lines clearly defined?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.21	Does the project include a field office and/or equipment / furniture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.22	Is advance notice and duration provided for utility shut-down or cutover?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.23	Is an erosion and pollution control plan identified? If one acre or more is disturbed has a SWPPP been completed? Has an NOI been processed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.24	Does the submission describe where silt fence needs to be installed to protect streams, watercourses, or other bodies of water? Are other Erosion and Sediment control features included on the drawings?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.25	Do the specifications and / or drawings describe specific procedures when pipes or other infrastructure need to cross facility perimeter security systems?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.26	Pavement areas and snow removal logistics. Plan accommodates snow removal for roads, walks, building exits and parking lots.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.27		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
4.28		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
5.0	Temporary Facilities	
5.1	Is temporary heat provided? Who pays for heat? Is the building envelope containment defined if owner is paying for heat?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
5.2	Is temporary cooling provided? Who pays for cooling? Is the building envelope containment defined if owner is paying for	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed



	cooling?	
5.3	Is temporary water available for contractor use?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
5.4	Are facility toilets available for contractor use?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
5.5	Is temporary light provided?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
5.6	Is construction heat clearly identified and defined?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
5.7	Is temporary power available for contractor use? Who pays for power use?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
5.8		
5.9		
6.0	Schedule	
6.1	Is the preliminary construction duration assessment adequate for the work to be performed? Is the project team prepared for the Construction Duration Meeting to be held after 100% Submission?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.2	Are milestones / phasing included in the Summary of Work? Is a phasing plan provided?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.3	Is phasing acceptable to the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.4	Will Critical Path Method (CPM) be considered for the project schedule?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.5	Have long lead items been identified with maximum allowable approvable submission deadlines such that if these submissions are not made or cannot be approved liquidated damages can be assessed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.6	Have critical submittals identified with maximum allowable approvable submission deadlines such that if these submissions are not made or cannot be approved liquidated damages can be assessed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.7	Are work hours clearly defined in the documents? Is the facility in agreement with these hours? Is there any premium time needed by the contractor? Can facility accommodate other than normal work hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.8	Does the specifications account for cold and hot weather construction (concrete, masonry, roofing, sub-base, pavement, etc.)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.9	Are restricted work periods for construction defined (roofing work, etc.)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> More Info Needed
6.10	Does an accelerated construction schedule account for proper techniques for example - concrete slab curing and flooring installation specifications?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.14	Does the construction schedule account for landscape planting and limitations for seasonal time of year?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.15		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
6.16		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed



7.0	Architectural / Building	
7.1	Has sufficient field investigation been done to ascertain that contract work can be performed as shown on the plans?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
7.2	Can the contractor use the existing elevator?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
7.3	Are code plans provided to clearly identify code requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
7.4	If existing furnishings or equipment are to be relocated from work area in the facility have they agreed to complete work when required?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
7.5	Will the work area be occupied?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
7.6	Are the work area (s) defined?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
7.7		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
7.8		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.0	Demolition	
8.1	Are there any items to be removed by the owner?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.2	Are there any items to be removed by the contractor and turned over to the owner?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.3	Are there existing items identified by the owner to be turned over as salvaged materials?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.4	If a building is being demolished, has it been declared a surplus building? See 9.13 of the DPM	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.5	Has a hazardous materials survey been completed? Has destructive testing been done to properly determine the extent of hazardous materials to be removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.6	Some facilities have special requirements with regard to hazardous waste disposal. Does the facility have special requirements? Are those identified and included on the drawings and in the specifications?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.7	Has there been a determination on depth of structural foundation removal?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.8	Is air monitoring required for this project? Who will perform this task?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.9		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
8.10		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
9.0	Structural	
9.1	Have all relevant equipment loads and supports been structurally accommodated and detailed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
9.2	Are shaft and chase penetrations through floors coordinated with other trade disciplines?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed



9.3	Are all primary utilities coordinated with all below grade foundations and wall conditions?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
9.4		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
9.5		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
10.0	HVAC System	
10.1	Is heating and/or cooling required? Have the requirements of building equipment been accounted for in the design?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
10.2	Is there commissioning services needed for the project?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
10.3		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
10.4		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
11.0	Plumbing System	
11.1	Is water pressure and flow rate serving the project been verified for acceptability?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
11.2	Has natural gas pressure serving the project been verified for suitability for connected loads?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
11.3	Have connection points to existing plumbing systems been shown and have their shut-off or isolation valves been identified and tested?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
11.4		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
11.5		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
12.0	Electrical System	
12.1	Has the work phasing been detailed showing when power outages will be required and their estimated durations?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
12.2	Is there commissioning services needed for the project?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
12.3	Will a coordination and Arc Flash study be required by the consultant?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
12.4		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
12.5		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.0	Quality	
13.1	Are mock ups going to be identified as part of the project? If yes, does the specifications and drawings clearly describe what is required?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.2	Are installation benchmarks required as part of this project? If yes, are they clearly identified?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.3	Are CADD Coordination drawings (013350) required?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.4	Is the contractor supervision requirements described in the General Conditions sufficient?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA



		<input type="checkbox"/> More Info Needed
13.5	Is exploratory demolition needed to discover subsurface conditions that could not be ascertained during design? If yes, then documents need to describe work to be done.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.6	Is client training required on any systems/components? Is video training recommended to accommodate client staff turnover?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.7	Are Special Inspections required per the BDC 406? Is a BDC 406.1 needed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.8	Determine appropriate level of Consultant construction site visits commensurate with the quality requirements of the project. Determine key site visit milestones.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.9	Identify additional project risks not discussed and mitigation strategies.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.10	Has agency specific standards been addressed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.11		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
13.12		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
14.0	Bidding	
14.1	Is project eligible for WICK's exemption (single prime contract)? See chapter 9.3 of the DPM.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
14.2	Are there alternates for this project? Have they been approved by the BUL?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
14.3	Are there project specific allowances?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
14.4		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
14.5		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.0	Construction Safeguards / Safety	
15.1	Any job site security concerns?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.2	Are there any Hot Works Permit activities? Coordinate with facility procedures. Are instructions to the contractor identified in the bid documents? (Reference: 2010 FCNYS 1404.6)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.3	Any requirements for fire watch? (Reference: 2010 FCNYS 1404.5)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.4	Is protection of pedestrians required? Are code related items such as barriers identified in the documents? (References: 2010 BCNYS 3303 and 3306 or 2010 EBCNYS 1401)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.5	Are means of egress maintained? (Reference: 2010 EBCNYS 1405 and FCNYS 1411)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.6	Is protection of adjoining property properly addressed? (Reference 2010 BCNYS 3307 and EBCNYS 1402)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.7	Is facility confined space identified on the documents?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.8	Maintenance of standpipes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA



	(References: 2010 BCNYS 3311, EBCNYS 1406 and FCNYS 1413)	<input type="checkbox"/> More Info Needed
15.9	Trash Chutes: (Reference NFPA 241 Chapter 5)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.10	Fire Fighting Access: Roads available and vehicles within 100 feet of fire department connections. (Reference 2010 FCNYS 1401)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.11	Owner's Responsibility for Fire Protection: (Reference 2010 FCNYS 1408)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.12	Precautions Against Fire: (Reference 2010 FCNYS 1404)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.13		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
15.14		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
16.0	Miscellaneous	
16.1		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
16.2		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
16.3		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed
16.4		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> More Info Needed

Revision History:

Rev	Date	Description	Reviewed by:	Approved by:
0	08/02/15	New chapter	Parnett	Parnett
1	12/17/15	Minor revisions to chapter and checklist	Parnett	Parnett
2	01/04/2016	Added Safeguards During Construction / Safety	Parnett	Parnett
3	4/23/16	Deleted evaluations	Parnett	Parnett