

KH GENERAL NOTES

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, AUTHORITY HAVING JURISDICTION (AHJ) STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ADDENDA ISSUED, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE AHJ SPECIFICATIONS SHALL BE USED UNLESS OTHER SPECIFICATIONS DO NOT EXIST IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS. THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.
- 2. THE CONTRACTOR SHALL COMPLY WITH AHJ "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE AHJ. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.
- 3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS.
- 4. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO BIDDING CONSTRUCTION ACTIVITIES.
- 5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE PROJECT SURVEYOR AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAID BENCHMARKS.
- 6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- 7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR MUST SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY PREPARED BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE CLIENT/OWNER AND ENGINEER FOR REVIEW.
- 8. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING FOR THE PROJECT.
- 9. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL.
- 10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS AS THEY RELATE TO CONSTRUCTION ACTIVITIES, INCLUDING ALL UTILITY HORIZONTAL AND VERTICAL ENTRANCES/EXITS FROM THE BUILDING, ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS WITHOUT PRIOR APPROVAL.
- 11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MECH, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. CLIENT/OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
- 12. CONTRACTOR SHALL CALL 811 10 DAYS PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION.
- 13. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE MAY CONTAIN VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.
- 14. LOCATIONS, ELEVATIONS, DEPTHS, AND DIMENSIONS OF EXISTING UTILITIES WERE OBTAINED FROM SURVEY, AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY WHEN ANY PROPOSED IMPROVEMENTS OR ADJUSTMENTS CONFLICT WITH AN EXISTING UTILITY.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND LOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES AS NEEDED, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT WILL BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS.
- 16. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.
- 17. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED PROJECT.
- 18. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 19. BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM.
- 20. CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK NEARBY FROM POWER LINES.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.
- 22. THE CONTRACTOR SHALL HAVE THE FOLLOWING AVAILABLE AT THE JOB SITE: A COPY OF THE CONTRACT DOCUMENTS, LATEST SEALED PLANS, GEOTECHNICAL REPORT, ADDENDUM, PROJECT AND SPECIFICATIONS, AND DIMENSIONS OF EXISTING UTILITIES, COPIES OF REQUIRED CONSTRUCTION PERMITS, STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDING THE EROSION CONTROL PLANS, AND INSPECTION REPORTS.
- 23. ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR NO LESS THAN 10 BUSINESS DAYS IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT THERE IS SUFFICIENT TIME FOR REVIEW AND RESPONSE.
- 24. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO THE START OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES.
- 25. CONTRACTOR SHALL ARRANGE FOR REQUIRED AHJ INSPECTIONS.
- 26. CONTRACTORS BID PRICE SHALL INCLUDE ALL INSPECTION FEES, UNLESS OTHERWISE AGREED UPON WITH OWNER.
- 27. ALL SIGNALS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC.) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO BE CALLED. THE CONTRACTOR SHALL REFER TO THE DETAILS AND OTHER AHJ APPROVED DETAILS FOR LOCATIONS. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION.
- 28. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5 FEET FROM THE BUILDING, UNLESS OTHERWISE SHOWN. REFERENCE THE BUILDING PLANS (E.G. ARCHITECTURAL, STRUCTURAL, MECH) FOR AREAS WITHIN 5 FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT.
- 29. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS.
- 30. THE PROPOSED BIDDING THESE PLANS WAS PROVIDED BY THE PROJECT ARCHITECT. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND COORDINATES SHOWN ON THESE PLANS WERE BASED ON THE PROVIDED ARCHITECTURAL FOOTPRINT. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECTS FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY, ETC.) AND TO CONFIRM THIS POSITION ON THE BUILDING.
- 31. THE CONTRACTOR SHALL VERIFY THE ARCHITECTURAL FOOTPRINT (WHICH COULD VARY FROM WHAT IS SHOWN), CIVIL DIMENSION CONTROL PLAN, SURVEY BOUNDARY AND/OR PLAT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- 32. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECTS FINAL GEOTECHNICAL REPORT OR LATEST EDITION, INCLUDING SUBSEQUENT ADDENDA. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEERS RECOMMENDATION SPECIFIC TO PLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
- 33. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION (EARTHWORK, PAVING, ETC.). UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE AHJ INSPECTOR AND COMPLY WITH AHJ STANDARDS AND THE GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING.
- 34. ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER AND ENGINEER DIRECTLY FROM THE TESTING AGENCY. THIS SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND AHJ SPECIFICATIONS.
- 35. ALL CONTRACTORS SHALL CONFINE THEIR ACTIVITIES TO THE WORK AREA, ANY DAMAGE RESULTING FROM ENCROACHMENTS OUTSIDE OF THE WORK AREA SHALL BE CONTRACTORS SOLE RESPONSIBILITY TO REPAIR.
- 36. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, OR OTHER FACILITIES UNLESS SPECIFICALLY NOTED FOR RELOCATION OR REMOVAL. ANY DAMAGES TO PROTECTED ITEMS WILL BE REPAIRED AT NO COST TO THE OWNER.
- 37. ALL AREAS SHALL IMMEDIATELY BE REPAIRED OR REPAIRED ANY PHYSICAL DAMAGE TO PRIVATE OR PUBLIC PROPERTY TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.
- 38. ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER.
- 39. THE CONTRACTOR SHALL SAVE, PROTECT, AND STORE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC., THAT ARE TO BE RELOCATED DURING CONSTRUCTION.
- 40. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, AND ENSURE EXISTING DITCHES AND CULVERTS ARE FREE OF OBSTRUCTIONS AT ALL TIMES.
- 41. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE THE PROJECT IS LOCATED PRIOR TO CONSTRUCTION. IF REQUIRED, THE CONTRACTOR SHALL SUBMIT THE TRENCH SAFETY PLAN TO THE AHJ. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH AHJ, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE AHJ.
- 42. THE CONTRACTOR SHALL KEEP TRENCHES FREE OF WATER.
- 43. SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 44. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEERS SEAL, HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.
- 45. SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS.
- 46. THE LOCATION OF THE CONTRACTORS FIELD OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS ASSOCIATED WITH THE CONSTRUCTION OFFICE, JOB TRAILER, MATERIAL STORAGE, AND STAGING OPERATIONS.
- 47. LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.
- 48. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MUTCD.
- 49. RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED OR ADJUSTED TO BE FLUSH WITH TOP OF PAVEMENT OR FINISHED GRADE.
- 50. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO BE FLUSH WITH FINISHED GRADES AT THE TIME OF PAVING.
- 51. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING/PHASING, AND SHALL CONTACT THE APPROPRIATE AHJ OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS.
- 52. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND AHJ APPROVAL OF A TRAFFIC CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION. ONCE APPROVED, IT IS THE CONTRACTORS RESPONSIBILITY FOR THE IMPLEMENTATION OF THE PLAN.
- 53. THE CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND AHJ, IDENTIFYING ALL DEVIATIONS AND VARIATIONS MADE DURING CONSTRUCTION.

EROSION CONTROL:

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE.
- 2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING ENVIRONMENTAL QUALITY ACT, INCLUDING, BUT NOT LIMITED TO THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) AUTHORIZATION TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT (GENERAL PERMIT PERM10-48R10000).
- 3. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION CONTROL PLAN SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE AND ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS, STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND SPECIFICATIONS.
- 4. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL BEST MANAGEMENT PRACTICES (BMPs) (INSTALLATION, IMPLEMENTATION, MAINTENANCE, REPORTING, AND EFFECTIVENESS OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES), ALSO INCLUDING UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE.
- 5. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT EACH INLET PER APPROVED DETAILS.
- 6. THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED WITH FINAL STABILIZATION.

- 7. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES NEEDED DUE TO PROJECT PHASING.
- 8. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND MAKE FIELD ADJUSTMENTS OR MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY AND PREVENT SEDIMENT FROM WASHING OFF THE SITE, THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- 9. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE, MODIFICATION, AND REMOVAL FOR EACH TEMPORARY EROSION AND SEDIMENT CONTROL MEASURE.
- 10. OFF-SITE SOIL BORROW, SOIL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED PART OF THE PROJECT SITE AND MUST COMPLY WITH THE SWPPP FOR THIS PROJECT. IF THE OFF-SITE AREA IS NOT COVERED UNDER AN APPROVED PERMIT FOR SOIL BORROW, THE CONTRACTOR SHALL OBTAIN SUCH PERMITTING AND ENSURE ADEQUATE BMPs ARE USED TO MANAGE RUNOFF FOR THE AREA. THE CONTRACTOR SHALL ENSURE FINAL STABILIZATION IS ACHIEVED ON ANY OFF-SITE AREA PRIOR TO THE COMPLETION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND NOTIFYING THE ENGINEER. PLANS TO INCLUDE ANY OFF-SITE AREAS THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN.
- 11. ALL STAGING, STOCKPILES, SPILL, AND STORAGE AREAS SHALL BE LOCATED AND BMPs UTILIZED TO ENSURE THERE IS NO ADVERSE EFFECT TO THE STORM WATER QUALITY.
- 12. CONTRACTORS SHALL INSPECT ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS: 1) AT LEAST ONCE EVERY 7 CALENDAR DAYS OR 2) AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.25 INCHES OR GREATER (AS RAIN GAUGE MUST BE MAINTAINED ON-SITE). THE SCHEDULE MUST BE SPECIFIED IN THE SWPPP. THE SCHEDULE MUST ALSO COMPLY WITH ANY OTHER LOCAL REQUIREMENTS.
- 13. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE/EXIT IN ACCORDANCE WITH THESE PLANS AND THE SWPPP. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE/EXIT AT ALL TIMES AND ALL MOTORVEHICLES, VEHICLES, TREE WASHING MAY ALSO BE USED AS A SUBSTITUTE.
- 14. WASHING OF VEHICLES TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS TO AN APPROVED SEDIMENT TRAP.
- 15. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OF SEDIMENT AND FLOWING OF CONTAMINATED RUNOFF OFF OF SITE ROADWAYS. ALL TRUCKS AND DEBRIS FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY.
- 16. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REMOVING ALL SEDIMENT AND DEBRIS FROM THE OFF-SITE ROADWAYS THAT ARE A RESULT OF CONSTRUCTION, AS REQUESTED BY OWNER AND CITY.
- 17. WHEN SEDIMENT OR DEBRIS HAS CLOGGED THE VOID SPACES BETWEEN STONES OF THE CONSTRUCTION ENTRANCE OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE CONSTRUCTION ENTRANCE MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH A BMP TO CONTROL SEDIMENT AND DEBRIS LEAVING THE SITE. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.
- 18. CONTRACTOR SHALL INSTALL TEMPORARY SEDIMENT AND TRAP BASIN FOR ANY ON-SITE DRAINAGE AREA EQUALING TEN ACRES OR MORE, INCLUDING RUN-OFF FROM OTHER AREAS, IF NO ENGINEERING DESIGN HAS BEEN PROVIDED FOR A SEDIMENTATION BASIN, THE CONTRACTOR SHALL ARRANGE FOR AN APPROPRIATE DESIGN TO BE PROVIDED.
- 19. ALL REGULATORY FINES IMPOSED FOR SEDIMENT OR DEBRIS DISCHARGED FROM THE SITE SHALL BE PAID BY THE CONTRACTOR.
- 20. CONTRACTOR SHALL INSTALL TEMPORARY SEDIMENT AND TRAP BASIN FOR ANY ON-SITE DRAINAGE AREA EQUALING TEN ACRES OR MORE, PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- 21. CONTRACTOR SHALL FOLLOW GENERAL GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF LOOSE DIRT, DEBRIS, AND TRASH AS CONSTRUCTION PROGRESSES.
- 22. UPON COMPLETION OF SITE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. FINAL STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR A PERMANENT VEGETATIVE COVER AS OUTLINED IN THE STATE GENERAL PERMIT.
- 23. AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAINPIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 24. THE SWPPP PREPARED FOR THIS PROJECT IS AN INTEGRAL PART OF THE PLANS AND CONTRACT DOCUMENTS. THE CONTRACTOR IS ADVISED TO REVIEW AND STRICTLY FOLLOW THE REQUIREMENTS OUTLINED IN THE SWPPP TO OBTAIN PERMIT COVERAGE FOR STORMWATER DISCHARGE AND UNDERSTAND THE REQUIREMENTS FOR TERMINATING PERMIT COVERAGE AT THE COMPLETION OF WORK.

DEMOLITION:

- 1. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT DEMOLITION SHOWN IN THESE PLANS. THE DEMOLITION PLAN INDICATES THE NATURE OF SUBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE AND FROM ALL EMPHASIS.
- 2. THE DEMOLITION PLAN WAS PREPARED BASED ON FIELD SURVEY DATA AND UTILITY INFORMATION PROVIDED BY OTHERS. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE ASSESSMENT OF THE SCOPE OF DEMOLITION. THE CONTRACTOR IS TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES, THE ABILITY AND PROCESS FOR THE REMOVAL OF SUCH IMPROVEMENTS AND UTILITIES.
- 3. THE DEMOLITION PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED PROJECT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. THE CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN (IF APPLICABLE):
 - a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER.
 - b. ASBESTOS BUILDING INSPECTION REPORT(S) PROVIDED BY THE OWNER.
 - c. GEOTECHNICAL REPORT PROVIDED BY THE OWNER.
 - d. OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE.
- 5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE RECOMMENDATIONS OF SUCH REPORTS PRIOR TO STARTING ANY WORK ON THE SITE.
- 6. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF IMPROVEMENTS, UTILITIES, OR ANY OBJECTS ON THE SITE. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, AND COMPLY WITH THE TERMS OF ANY REQUIRED PERMITS AND AUTHORIZATIONS OBTAINED BY THE CONTRACTOR FROM THE AHJ FOR THE DEMOLITION OF SUCH IMPROVEMENTS AND UTILITIES.
- 7. KH DOES NOT REPRESENT THAT THE REPORTS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND REMOVED.
- 8. EXISTING SURFACE PAVEMENT MAY OVERLAY OTHER HIDDEN STRUCTURES, SUCH AS ADDITIONAL LAYERS OF PAVEMENT, STRUCTURES, FOUNDATIONS OR WALLS, THAT ARE ALSO TO BE REMOVED.

GRADING:

- 1. THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- 2. CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE AHJ.
- 3. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREAS REFLECT TOP OF PAVEMENT (TP), IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE TP GRADE FOR TOP OF CURB (TC) ELEVATION.
- 4. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN OUTSIDE THE PAVEMENT AREAS REFLECT TOP OF FINISHED GRADE.
- 5. THE PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS, HIGH POINTS (HP), LOW POINTS (LP), AND ANNOTATED SLOPES ARE TO BE USED IN CASE OF DISCREPANCY.
- 6. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN.
- 7. WHEN PERFORMING THE GRADING OPERATIONS, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN CONDITIONS, AND PREPARATION OF THE BUILDING PAD AND ANY NOTED OVERBUILD OF THE BUILDING PAD.
- 8. ALL FINISHED GRADES SHALL BE MAINTAINED TO THE TOP OF FINISHED GRADE.
- 9. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATIONS TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY SIGNIFICANT VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 9. UNLESS OTHERWISE AGREED UPON BY THE OWNER, ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED, ALL UNLIEABLE EXCAVATED MATERIAL AND WASTE RESULTING FROM SITE CLEARING, GRUBBING, AND STRIPPING OPERATIONS SHALL BE REMOVED FROM THE SITE AND IMMEDIATELY DISPOSED BY THE CONTRACTOR. ALL EXCAVATION MATERIALS EXPENSED DISPOSAL SHALL BE IN A MANNER THAT ADHERES TO LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
- 10. THE CONTRACTOR SHALL KEEP A RECORD OF ALL DISPOSAL LOCATIONS, ALONG WITH RECEIVING LANDOWNERS WRITTEN APPROVAL TO DO SO.
- 11. BEFORE ANY EARTHWORK OPERATIONS ARE PERFORMED, THE CONTRACTOR SHALL STAKE AND MARK THE LIMITS OF THE PROJECTS PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE (HORIZONTAL) AND GRADE (VERTICAL) CONTROL POINTS RELATED TO EARTHWORK. THE CONTRACTOR SHALL REFER TO THE APPLICABLE SITE PLAN, SURVEY, OR PLAT FOR THE PROJECTS PROPERTY LINE AND PROPOSED IMPROVEMENT HORIZONTAL DIMENSIONS.
- 12. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS DISPOSED, ALONG WITH THE RECEIVING LANDOWNERS APPROVAL TO DO SO.
- 13. THE CONTRACTOR SHALL CLEAR, GRUB, AND STRIP THE SITE AND PLACE, COMPACT, AND CONDITION FILL PER THE GEOTECHNICAL REPORT. FILL MATERIAL TO BE USED SHALL BE APPROVED BY THIS GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- 14. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTURE PLANS FOR SPECIFICATIONS AND REQUIREMENTS FOR TOPSOIL.
- 15. NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY REASON OR ANY LENGTH OF TIME, UNLESS OTHERWISE SHOWN ON THE PLANS AND PROVIDED PROVISIONS FOR ADEQUATE DRAINAGE.
- 16. TEMPORARY CULVERTS MAY BE REQUIRED IN SOME LOCATIONS TO CONVEY RUN-OFF DURING CONSTRUCTION.
- 15. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FOR FILL CONDITIONS, AND PREPARATION OF THE BUILDING PAD AND ANY NOTED OVERBUILD OF THE BUILDING PAD.
- 16. CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER OF THE PROPOSED BUILDING(S) DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- 19. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE AHJ. AT NO ADDITIONAL COST TO THE OWNER.
- 20. EXISTING TREE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL TREE LOCATIONS, INCLUDING THE TOP AND BASE OF EACH TREE. CONTRACTOR SHALL CONTACT THE TREE PRESERVATION PLAN AND PROPOSED GRADING TO COMMENCING THE WORK.
- 21. TREE PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE AHJ STANDARD TREE PROTECTION DETAILS AND THE APPROVED TREE PRESERVATION PLAN.
- 22. CONTRACTOR SHALL REFER TO THE LANDSCAPING LANDSCAPE AND TREE PRESERVATIONS PLANS FOR ALL INFORMATION AND DETAILS REGARDING EXISTING TREES TO BE REMOVED AND PRESERVED.
- 23. NO TREE SHALL BE REMOVED UNLESS A TREE REMOVAL PERMIT HAS BEEN ISSUED BY THE AHJ, OR AHJ HAS OTHERWISE CONFIRMED IN WRITING THAT ONE IS NOT NEEDED.
- 24. IN THE EVENT THAT A TREE PRESERVATION PLAN DOES NOT EXIST OR IS NOT REQUIRED BY THE AHJ, NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER. EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE AND DRAINAGE IMPACT TO THEM HELD TO A MINIMUM.
- 25. AFTER PROPER PLACEMENT OF THE PAVEMENT SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, THE CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF FONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED DRAINAGE STRUCTURE TO CONVEY STORMWATER RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY AREAS OF POOR DRAINAGE ARE DISCOVERED.
- 26. THE CONTRACTOR MAY MAKE FIELD ADJUSTMENTS OF PROPOSED SPOT GRADES, IF THE APPROVED BY THE ENGINEER.

RETAINING WALLS:

- 1. RETAINING WALLS SHOWN ARE FOR SITE GRADING PURPOSES ONLY, AND INCLUDE ONLY LOCATION AND SURFACE SPOT ELEVATIONS AT THE TOP AND BASE OF WALL AT FINISHED GRADE.
- 2. RETAINING WALL TYPE, SYSTEM, AND COLORS SHALL BE SELECTED BY THE OWNER. RETAINING WALL DESIGNS SHALL BE PROCURED BY THE CONTRACTOR, UNLESS OTHERWISE AGREED UPON WITH THE OWNER.

- 3. RETAINING WALLS SHALL FIT IN THE WALL ZONE OR LOCATION SHOWN ON THESE PLANS.
- 4. STRUCTURAL DESIGN AND PERMITTING OF RETAINING WALLS, RAILINGS, AND OTHER WALL SAFETY DEVICES SHALL BE PERFORMED BY A LICENSED ENGINEER AND ARE NOT PART OF THIS PLAN SET. RETAINING WALL DESIGN SHALL MEET THE INTENT OF THE GRADING PLAN AND SHALL ACCOUNT FOR ANY INFLUENCE ON ADJACENT BUILDING FOUNDATIONS, UTILITIES, PROPERTY LINES AND OTHER CONSTRUCTION NOTES.
- 5. RETAINING WALL DESIGN ENGINEER SHALL CONSULT THESE PLANS AND THE GEOTECHNICAL REPORT FOR POTENTIAL CONFLICTS. PAVING:
 - 1. ALL SUBGRADE AND PAVING MATERIALS AND ASSOCIATED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS. AROD TOP SURFACE SHALL BE MARKED AND LINED AS FOLLOWS: THE FINISH GRADE SHALL BE MARKED AND LINED AS FOLLOVED, FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE AROD SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST.
 - 2. ACCESSIBLE PRIVATE CURB RUMPS SHALL BE INSTALLED IN PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE AHJ STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
 - 3. ACCESSIBLE PRIVATE CURB RUMPS ON THE SITE (I.E. OUTSIDE PUBLIC RIGHT-OF-WAY) SHALL CONFORM TO ADA STANDARDS.
 - 4. ALL ACCESSIBLE RAMPS, STAIRING, SIGNAGE, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND AHJ STANDARDS.
 - 5. ANY COMPONENTS OF THE PROJECT SERVING MULTIFAMILY DWELLINGS IN BUILDINGS THAT HAVE 4 OR MORE UNITS PER BUILDING SHALL COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
 - 6. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION.
 - 7. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LINES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PART AND PAVEMENT MARKINGS SHALL ADHERE TO AHJ AND OWNER STANDARDS.
 - 8. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT. IF NONE EXISTS, THE CONTRACTOR SHALL PREPARE A JOINT LAYOUT PLAN FOR REVIEW BY THE GEOTECHNICAL ENGINEER PRIOR TO BEGINNING PAVEMENT WORK.
 - 9. REFER TO AHJ STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT.
 - 10. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, AHJ STANDARDS, AND ASTM A-615, GRADE 60, AND SHALL BE SUPPORTED BY BAR CHAIRS. CONTRACTOR SHALL USE THE MORE STRINGENT OF THE AHJ AND GEOTECHNICAL STANDARDS.
 - 11. ALL JOINTS SHALL EXTEND THROUGH THE CURB.
 - 12. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
 - 13. SAWCUTS SHALL EXTEND FULL DEPTH OF THE EXISTING PAVEMENT SECTION FOR REMOVAL OF PAVEMENT.
 - 14. FIRE LINES SHALL BE MARKED AND LABELED AS A FIRE LINE PER AHJ STANDARDS.
 - 15. ALL PAVEMENT SHALL BE SPECIFICALLY DICTATED TO THE CONTRARY. ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED.
 - 16. CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO COMPLETION OF PAVEMENT. CONSTRUCTION DOCUMENTS (CIVIL, MECH, LANDSCAPE, IRRIGATION, AND ARCHITECTURE) SHALL BE PLACED FOR POTENTIAL PLACEMENT LOCATIONS.
 - 17. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS ASILES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP RUN SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE (INCLUDING RAMPS OR LANDINGS) EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS ASILES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
 - 18. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PLACING PAVEMENT IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.

STORM DRAINAGE:

- 1. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER SYSTEM.
- 2. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING STORM SEWER FACILITIES THAT ARE TO BE CONNECTED TO PRIOR TO START OF CONSTRUCTION OF ANY STORM SEWER. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- 3. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, BOTH HORIZONTAL AND VERTICAL AS THEY RELATE TO UTILITIES CROSSING THE STORM SEWER, TO INCLUDE THE HORIZONTAL AND VERTICAL LOCATION OF ANY DRAINAGE INLET.
- 4. FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADING PLAN AND FIELD CONDITIONS PRIOR TO THEIR INSTALLATION.
- 5. ALL PUBLIC STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO AHJ STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED AHJ INSPECTIONS.
- 6. ALL PRIVATE STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL ARRANGE FOR REQUIRED AHJ INSPECTIONS.
- 7. ALL STORM PIPE CONNECTIONS ENTERING STRUCTURES OR OTHER STORM PIPES SHALL HAVE A CONCRETE COLLAR AND BE GROUDED TO ASSURE THE CONNECTION IS WATERTIGHT.
- 8. ALL PUBLIC OR PRIVATE STORM SEWER PIPE 18-INCHES AND GREATER SHALL BE CLASS III RCP OR OTHER APPROVED MATERIAL. LIDS SHALL OTHERWISE NOTED ON THE PLANS.
- 9. WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP SHALL BE USED.
- 10. IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PRIVATE STORM SEWER, CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO THE OWNER, ENGINEER AND AHJ ENGINEERING INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATERIAL. ANY PROPOSED MATERIALS SHALL BE APPROVED BY THE ENGINEER IMMEDIATELY.
- 11. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL STORM SEWER LINES.
- 12. EMBEDMENT AND BACKFILL FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER AHJ STANDARD DETAILS.
- 13. ALL WYE CONNECTIONS AND PIPE BENDS ARE TO BE PREFABRICATED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.

POND NOTES:

- 1. ANY PONDS THAT ARE INTENDED TO HOLD WATER INDEFINITELY (WET PONDS) SHALL BE CONSTRUCTED AS FOLLOWS:
 - a. WET PONDS SHALL BE WATERTIGHT.
 - b. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR POND LINDER SPECIFICATIONS.
 - c. A GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE ALL POND LINDER MATERIAL, PLACEMENT PROCEDURES, AND PROVIDE TESTING TO ENSURE THE POND LINDER MATERIAL PLACED IS WATERTIGHT.
 - d. STORM SEWER PIPES AND HEADWALLS THAT CONNECT TO A WET POND SHALL BE INSTALLED WITH WATERTIGHT JOINTS TO AT LEAST 1 FOOT ABOVE THE NORMAL POOL WATER SURFACE ELEVATION.
 - e. ANY GRAVEL OR OTHER PERVIOUS EMBEDMENT AROUND PIPES OR OUTFALL STRUCTURES NEAR THE WET POND SHALL BE ELIMINATED FOR AT LEAST 20 FEET FROM THE WET POND SO NO ROUTE FOR WATER TO LEAK THROUGH THE EMBEDMENT MATERIAL IS PROVIDED. BACKFILL IN THESE AREAS SHALL BE PER AHJ STANDARD DETAILS.
 - f. THE WATER LEVEL FOLLOWING COMPLETION AND FILLING OF THE WET POND SHALL BE MONITORED BY THE CONTRACTOR FOR AT LEAST 60 DAYS TO OBSERVE WATER INFLOW, OUTFLOW, AND CALCULATE EVAPORATION TO VERIFY THAT THE POND IS WATERTIGHT.
 - g. THE WET POND WATER LEVEL SHALL ALSO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION SO THAT IT REMAINS FULL TO ITS DESIGN WATER LEVEL, AND IS NOT LOWERED, AS THIS MAY DRY-OUT THE POND LINDER AND RISK ITS WATERTIGHT PROPERTIES.

WATER AND WASTEWATER:

- 1. ALL UTILITIES TO BE INSTALLED PER LOCAL SPECIFICATIONS. NOTES PROVIDED ARE TO BE USED IN THE ABSENCE OF LOCAL SPECIFICATION.
- 2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE WATER AND WASTEWATER SYSTEMS, INCLUDING THE NORMAL POOL WATER SURFACE ELEVATION.
- 3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER AND WASTEWATER FACILITIES THAT ARE TO BE CONNECTED TO PRIOR TO START OF CONSTRUCTION OF ANY WATER OR WASTEWATER. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- 4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY WATER OR WASTEWATER PIPE.
- 5. ALL PUBLIC WATER AND WASTEWATER PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO AHJ STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED AHJ INSPECTIONS.
- 6. ALL PRIVATE FIRE SERVICE MAINS SHALL BE PVC D200-16, DR-18 (RIM D200) OR APPROVED EQUAL. ALL PRIVATE FIRE SERVICE MAINS AND ALL ASSOCIATED FIRE PROTECTION APPURTENANCES SHALL BE INSTALLED, FLUSHED, AND TESTED TO CONFORM WITH NFPA 13 AND 24, INCLUDING ALL AHJ AMENDMENTS.
- 7. ALL PRIVATE WATER SERVICE PIPE SHALL BE TYPE K COPPER TUBING OR SCHEDULE 40 PVC, AND CONFORM TO AND BE INSTALLED PER THE PLUMBING CODE, INCLUDING ANY AHJ AMENDMENTS.
- 8. ALL NON-POTABLE WATER REUSE PIPING SHALL CONFORM TO AND BE INSTALLED PER THE PLUMBING CODE, INCLUDING ANY AHJ AMENDMENTS. THIS INCLUDES ALL SIGNAGE, LABELING, AND MARKING. THE COLOR PURPLE SHALL BE USED, PER CODE, TO IDENTIFY NONPOTABLE WATER SERVICES.
- 9. ALL PRIVATE BUILDING SEWER LINES SHALL BE A MINIMUM OF SCHEDULE 40, ASTM F789/D3212. ALL SANITARY SEWER LINES DEEPER THAN 15 FEET SHALL BE A MINIMUM OF PVC SDR-26. (PIPE SIZES 8 INCHES AND SMALLER SHALL BE PVC SCHEDULE 40, AND PIPE SIZES 8 INCHES OR LARGER MAY BE SDR35). BUILDING SEWER LINES SHALL CONFORM TO AND BE INSTALLED PER THE PLUMBING CODE, INCLUDING ANY AHJ AMENDMENTS.
- 10. FIRE SPRINKLER LINES SHALL BE DESIGNED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR, AND COMPLY TO ALL APPLICABLE CODES REQUIRED. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF THE FIRE SPRINKLER DESIGN. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES IMMEDIATELY.
- 11. EMBEDMENT AND BACKFILL FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER AHJ STANDARD DETAILS AND SPECIFICATIONS.
- 12. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY AHJ, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS.
- 12. ALL WATER AND WASTEWATER SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE.
- 13. CONTRACTOR SHALL SEQUENCE WATER AND WASTEWATER CONSTRUCTION TO AVOID INTERRUPTION OF SERVICE TO SURROUNDING PROPERTIES. IF REQUIRED, CONTRACTOR SHALL COMPLY WITH AHJ REQUIREMENTS FOR WATER AND WASTEWATER SERVICE DISRUPTIONS AND THE AMOUNT OF PRIOR NOTICE THAT IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE AHJ.
- 14. CONTRACTOR SHALL MAINTAIN WATER SERVICE AND WASTEWATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCTION (IF NECESSARY, BY USE OF TEMPORARY METHODS APPROVED BY THE AHJ AND OWNER). THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 15. CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING WATER AND WASTEWATER LINES CROSSING THE PROJECT. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL DAMAGED LINES IMMEDIATELY REPAIR. WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 16. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED GRADE OF THE PROPOSED PAVEMENT.
- 17. THE ENDS OF ALL EXISTING WATER AND WASTEWATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE PER AHJ REQUIREMENTS. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 18. ALL FIRE HYDRANTS, VALVES, TENDS, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND/OR THRUST BLOCKED TO AHJ STANDARDS.
- 19. CONTRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE JOINTS ARE GREATER THAN 10 FEET FROM THE CROSSING.
- 20. ALL CROSSINGS AND LOCATIONS WHERE WATER IS LESS THAN 10 FEET FROM WATER, SHALL BE PROTECTED ACCORDING TO AHJ SPECIFICATIONS.
- 21. ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 10 FEET FROM WASTEWATER, SHALL BE PROTECTED ACCORDING TO AHJ SPECIFICATIONS.
- 22. ALL WATER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE AHJ, AND AWWA STANDARDS AND SPECIFICATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING:
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