ACADIA METHODIST JV BEHAVIORAL HEALTH HOSPITAL

SOUTH 24TH STREET AND RICHARD DOWNING AVENUE, COUNCIL BLUFFS, IOWA 51501

CONSTRUCTION DOCUMENTS

GENERAL INFORMATION

DEVELOPER

Acadia Healthcare

CIVIL ENGINEER

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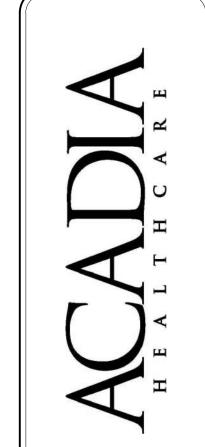


Mechanical/Electrical Engineering



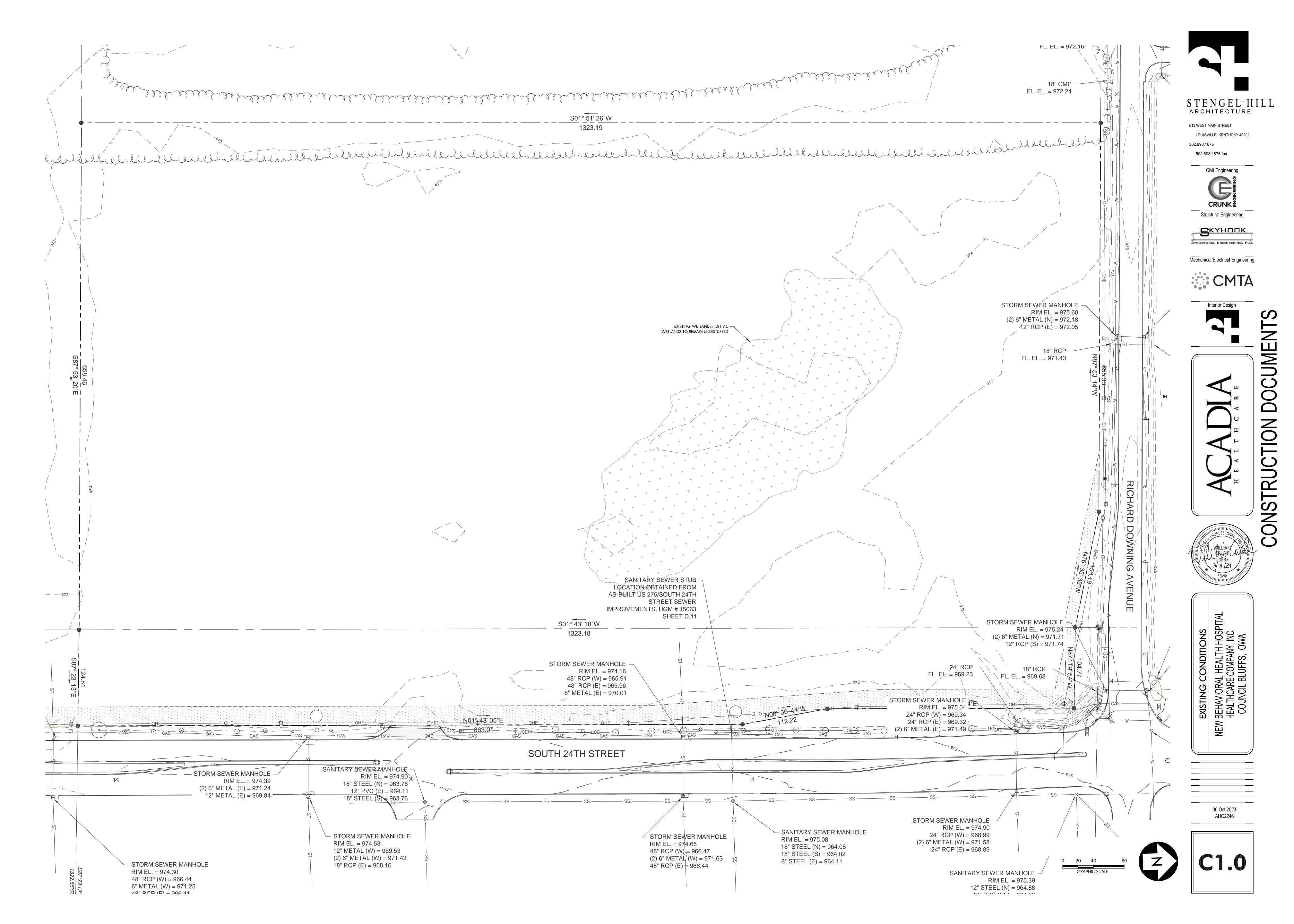








△ 3/29/24 ADDM #4 △ 5/24/24 ADDM #6



GENERAL NOTES:

- 1. BASE INFORMATION WAS TAKEN FROM A BOUNDARY & TOPOGRAPHIC SURVEY PERFORMED BY OLSSON DATED 7/28/23. CRUNK ENGINEERING LLC SHALL NOT BE RESPONSIBLE FOR ERRORS AND OMISSIONS RESULTING FROM THIS INFORMATION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE PROJECT AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL QUANTITIES, TAKE-OFF MEASUREMENTS, MATERIALS, ETC., DURING THE BID PROCESS. ANY QUANTITIES PROVIDED ON PLANS ARE PROVIDED AS A COURTESY. WHEN DISCREPANCIES OCCUR, THE PHYSICAL PLAN TAKES PRECEDENCE.
- 5. A COPY OF THE ELECTRONIC DRAWING FILE MAY BE REQUESTED FROM ENGINEER BY CONTRACTOR TO PROVIDE COORDINATES FOR LOCATION IN FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST ELECTRONIC FILES AFTER ANY REVISIONS TO PLANS, IF ANY OCCUR.
- 6. THE CONTRACTOR SHALL CHECK ALL EXISTING CONDITIONS, UTILITY INVERTS, UTILITY ROUTINGS, UTILITY CROSSINGS, AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION.
- 7. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL CALL NATIONAL ONE CALL (811) 72 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION. THE CONTRACTOR SHALL REPAIR ANY DAMAGED UTILITIES ACCORDING TO LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE.
- 8. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND RECEIVE APPROVAL WHERE NECESSARY BEFORE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS. ALL AS-BUILTS SHALL BE PREPARED IN ACCORDANCE WITH LOCAL AGENCY(S) REQUIREMENTS. IF A CERTIFIED AS-BUILT SURVEY IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A STAMPED SURVEY AND SUBMITTING TO ENGINEER.
- 9. THE CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATIONS TO WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF CONSTRUCTION. CARE SHALL BE TAKEN TO PROTECT ANY UTILITIES, TREES, BUILDINGS ETC. WHICH ARE TO REMAIN AND NOT TO BE DISTURBED BY THE CONSTRUCTION.
- 10. EXISTING PAVEMENT OF PUBLIC ROADWAYS SHALL BE PATCHED IN ACCORDANCE WITH LOCAL AGENCY STANDARDS WHEREVER UTILITY INSTALLATION REQUIRES REMOVAL OF THE EXISTING PAVEMENT. COORDINATE PAVEMENT TRENCHING LOCATIONS WITH SITE CIVIL, PLUMBING AND ELECTRICAL PLANS.
- 11. DIMENSIONS AND COORDINATES PROVIDED ARE TO FACE OF CURB AND/OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- 12. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION AND CONSTRUCTION ISSUED BY AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS OF CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR.
- 13. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WORKS SUCH AS BRACING, SHEETING AND SHORING, BLASTING PROTECTION, WARNING LIGHTS AND BARRICADES, ETC. AS MAY BE NECESSARY FOR THE PROTECTION OF LIFE AND PROPERTY FOR HIS OWN EMPLOYEES AND THE GENERAL PUBLIC.
- 14. PORTIONS OF THE WORK SHOWN ON THESE PLANS MAY REQUIRE TRENCH AND/OR MASS EXCAVATION. IN SOME CASES, THIS WILL REQUIRE THE REMOVAL OF ROCK. IN THE USE OF EXPLOSIVES FOR THE SUBSEQUENT EXCAVATION OF ROCK MATERIAL, ALL APPLICABLE LOCAL AND STATE REQUIREMENTS REGARDING THE USE AND STORAGE OF EXPLOSIVE MATERIAL SHALL BE FOLLOWED. THE PROPER PERMITS MUST BE SECURED AND PRE-BLAST SURVEYS WILL BE CONDUCTED IN AREAS WHERE ADJACENT PROPERTIES OR IMPROVEMENTS OFF OF THE PROJECT PROPERTY COULD BE IMPACTED. IN PORTIONS OF THE PROJECT WHERE TRENCH EXCAVATION IS REQUIRED, THE CONTRACTOR WILL BECOME FAMILIAR WITH ALL APPLICABLE TRENCH SAFETY REQUIREMENTS AND REGULATIONS AND TAKE THE NECESSARY MEASURES TO INSURE THE SAFETY OF HIS EMPLOYEES AND ANY OTHER INDIVIDUALS HAVING A NEED TO BE IN AND AROUND THE
- 15. ANY WORK UNACCEPTABLE TO THE OWNER'S REPRESENTATIVE OR TO THE LOCAL AGENCY(S) SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL VERIFY THE LIMITS OF DEMOLITION WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
- 2. THE CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL. UPON REMOVAL NO ROOT GREATER THAN THREE INCHES IN DIAMETER SHALL REMAIN WITHIN FIVE FEET OF AN UNDERGROUND STRUCTURE OR UTILITY LINE OR UNDER PAVED FOOTINGS OR PAVED AREAS.
- 3. IN AREAS WHERE EXISTING PAVEMENT, WALKS, OR CURBS ARE TO BE REMOVED, SAW CUT TO PROVIDE A CLEAN EDGE. COORDINATE EXTENT OF PAVEMENT DEMOLITION WITH THE LIMIT OF IMPROVEMENTS ON THE SITE LAYOUT PLAN AND UTILITY PLAN.
- 4. THE CONTRACTOR SHALL COORDINATE PHASING OF THE DEMOLITION WITH THE OWNER'S REPRESENTATIVE AND UTILITY PROVIDERS PRIOR TO BEGINNING WORK. DISRUPTION OF EXISTING UTILITY SERVICES AND TRAFFIC PATTERNS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE AND INITIATED ONLY AFTER APPROVAL BY THE LOCAL AGENCY(S) AND UTILITY PROVIDER(S).
- NO UTILITY OR STORM SEWER LINES SHALL BE DEMOLISHED UNTIL THE NEW LINES HAVE BEEN INSTALLED AND ARE PLACED INTO OPERATION.
- 6. THE CONTRACTOR SHALL INCORPORATE INTO HIS WORK ANY ISOLATION VALVES OR TEMPORARY PLUGS REQUIRED TO CONSTRUCT NEW UTILITY LINES AND DEMOLISH EXISTING UTILITY LINES.
- 7. WHERE WATER LINE AND SEWER LINE ABANDONMENT IS PLANNED, THE CONTRACTOR MAY ABANDON WATER LINES AND SEWER LINES IN PLACE WHERE THEY OCCUR AT LEAST 24 INCHES (TO TOP OF PIPE) BELOW FINAL SUBGRADE ELEVATIONS AND OUTSIDE THE BUILDING FOOT PRINT. ALL UTILITY LINES BEING ABANDONED IN PLACE SHALL HAVE ALL ENDS PERMANENTLY CLOSED USING A CONCRETE PLUG.
- 8. CAVITIES AND TRENCHES LEFT BY DEMOLITION WORK SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- 9. ALL MATERIALS BEING REMOVED AND NOT RELOCATED UNDER THE NEW CONSTRUCTION, INCLUDING TREES AND SHRUBS, SIGNS, LIGHT POLES, UTILITY STRUCTURES, ETC., SHALL BE FIRST OFFERED TO THE OWNER'S REPRESENTATIVE AND IF NOT ACCEPTED SHALL THEN BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

SITE GRADING NOTES:

- 1. THE EXISTING AND PROPOSED TOPOGRAPHIC INFORMATION IS BASED OFF THE TOPOGRAPHIC SURVEY PERFORMED BY OLSSON DATED 7/28/23. ELEVATIONS ARE BASED OF NAVD 88. BENCHMARK LOCATION AND ELEVATIONS ARE AS REPRESENTED BY THE SURVEYOR AT THE TIME OF THE SURVEY. THE CONTRACTOR SHALL VERIFY ITS CORRECTNESS PRIOR TO CONSTRUCTION.
- 2. THE DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 11.37 ACRES.
- THE SUBJECT PROPERTY DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD ZONE ACCORDING TO PANEL No. 0560E OF THE F.E.M.A. FLOOD INSURANCE RATE MAPS FOR POTTAWATTAMIE COUNTY, IOWA, DATED FEBRUARY 4, 2005.
- 4. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- 5. THE CONTRACTOR SHALL CHECK EXISTING GRADES AND DIMENSIONS PRIOR TO BEGINNING WORK AND REPORT ANY DISCREPANCIES TO THE ENGINEER. THIS GRADING & DRAINAGE PLAN IS NOT A DETERMINATION OR GUARANTEE OF THE SUITABILITY OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED. A GEOTECHNICAL SOILS REPORT HAS BEEN PREPARED AND IS AVAILABLE FROM THE OWNER. DETERMINATION OF THE SUBSURFACE CONDITIONS FOR THE WORK INDICATED IS THE CONTRACTOR'S SOLE RESPONSIBILITY.
- 6. IF ANY SPRINGS OR UNDERGROUND STREAMS ARE EXPOSED DURING CONSTRUCTION THE OWNER'S REPRESENTATIVE AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
 PERMANENT MEDIATION MAY BE REQUIRED, THE LOCATION AND SPECIFICATION OF WHICH WILL BE DETERMINED BY THE CONDITIONS WHICH ARE ENCOUNTERED.
- 7. THE PROPOSED GRADING AND DRAINAGE PLAN CONTAIN CONTOUR LINES AND SPOT ELEVATIONS RESULTING FROM AN ENGINEERED DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF MATERIALS. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEM WITH THE CONTINUITY OF GRADES, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY.
- 8. ALL CUT AND FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON PLANS. FILL SLOPES OF 3:1 AND GREATER SHALL BE PLACED AND COMPACTED A MINIMUM OF 5 FEET BEYOND THE PROPOSED SLOPE LIMITS AND THEN EXCAVATED BACK TO THE PROPOSED LOCATION.
- 9. THE MAXIMUM SLOPE WITHIN ACCESSIBLE PARKING SPACES SHALL BE 2.0% IN ANY DIRECTION. THE MINIMUM GRADE ON ASPHALT OR CONCRETE PAVING SHALL BE 1.0% UNLESS OTHERWISE INDICATED ON PLANS.
- 10. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. SLIGHT FIELD ADJUSTMENT MAY BE REQUIRED. THE CONTRACTOR WILL BE REQUIRED TO ADJUST GRADES OF INTERSECTING STREETS, ALLEYS, PUBLIC ENTRANCES AND PRIVATE DRIVES AS DIRECTED BY THE ENGINEER.
- 11. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES DURING AND AFTER CONSTRUCTION. SOIL AFFECTED BY PERCHED WATER IN FOUNDATION AND PAVEMENT AREAS MUST BE UNDERCUT AND REPLACED WITH SUITABLE FILL MATERIALS APPROVED BY A GEOTECHNICAL ENGINEER. GROUNDWATER INFILTRATION INTO EXCAVATIONS SHOULD BE EXPECTED, AND THE WATER SHALL BE REMOVED USING GRAVITY DRAINAGE OR PUMPING.
- 12. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO COMPACT FILL SUFFICIENTLY AROUND AND OVER ALL PIPES, STRUCTURES, VALVE STEMS, ETC., INSIDE THE PROPOSED PAVED AREAS TO AVOID SETTLEMENT. ANY SETTLEMENT DURING THE WARRANTY PERIOD SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 13. THE CONTRACTOR SHALL NOT DISTURB VEGETATION OR REMOVE ANY TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
- 14. THE CONTRACTOR SHALL STRIP TOPSOIL FROM ALL CUT AND FILL AREAS AND STOCKPILE UPON COMPLETION OF GENERAL GRADING THE TOPSOIL SHALL BE PLACED OVER ALL DISTURBED AREAS TO A MINIMUM DEPTH OF 6". CONTRACTOR SHALL PROVIDE ADDITIONAL TOPSOIL IF INSUFFICIENT QUANTITIES EXIST ON SITE. THE CONTRACTOR SHALL PROVIDE MEASURES TO PREVENT SEDIMENT FROM STOCKPILED TOPSOIL OR FILL MATERIAL FROM CONTAMINATING SURROUNDING AREAS OR ENTERING NEARBY STREAMS.
- 15. ALL FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. THIS MATERIAL SHALL BE PLACED IN LIFTS AND COMPACTED AS DIRECTED BY THE GEOTECHNICAL ENGINEER (TO 95% STANDARD PROCTOR).
- 16. THE CONTRACTOR IS RESPONSIBLE FOR PERMITTING ANY SITE USED FOR DISPOSAL AND/OR STOCKPILE OF ANY MATERIAL FOR SUCH ACTIVITY. A COPY OF THE APPROVED PERMIT MUST BE PROVIDED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK ON ANY PROPERTY. FAILURE TO DO SO MAY RESULT IN THE CONTRACTOR REMOVING ANY ILLEGALLY PLACED MATERIAL AT HIS OWN EXPENSE.
- 17. ANY EXCESS EARTH MATERIAL AS A RESULT FROM GRADING ACTIVITIES SHALL BE FIRST OFFERED TO THE OWNER. IF NOT ACCEPTED BY THE OWNER, THE CONTRACTOR SHALL DISPOSE OF EARTH MATERIAL OFF SITE AT NO ADDITIONAL COST TO THE OWNER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPORT SUITABLE MATERIAL FOR GRADING ACTIVITIES IF SUFFICIENT AMOUNTS OF EARTH MATERIAL ARE NOT AVAILABLE ON SITE AT NO ADDITIONAL COST TO THE OWNER.
- 18. SEGMENTAL WALLS SHALL BE PROVIDED BY THE CONTRACTOR ON A DESIGN BUILD BASIS. WALL DESIGN PLANS STAMPED BY A REGISTERED ENGINEER IN THE STATE OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER AS A SHOP DRAWING AND INCLUDED IN THE CONSTRUCTION DOCUMENTS.
- 9. TOP OF GRATE ELEVATIONS FOR DRAINAGE STRUCTURES SHALL BE AS SHOWN ON THE DETAIL AND GRADING PLAN, UNLESS NOTED OTHERWISE. THE GRATES SHALL SLOPE WITH THE PAVEMENT AND/OR CURB AND GUTTER GRADES. LOCATION OF DRAINAGE STRUCTURES IS AS SHOWN ON THE GRADING PLAN.
- 20. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF STORM DRAIN CONNECTIONS AT THE BUILDING WITH THE PLUMBING PLANS.
- 21. REINFORCED CONCRETE STORM PIPE SHALL MEET ASTM 76CLASS III, WALL TYPE "B" MESH REINFORCEMENT. HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL MEET ASTM F 2648. POLYVINYLCHLORIDE PIPE (PVC) SHALL MEET ASTM D3034, SDR 35.

EROSION CONTROL NOTES:

- 1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE GRADING ACTIVITIES BEGIN AND MUST BE CONSTRUCTED AND MAINTAINED THROUGH THE DURATION OF THE PROJECT. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
- 2. THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
- 3. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
- 4. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
- 5. EXISTING VEGETATION AND GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
- 6. USE TEMPORARY VEGETATION AND/OR MULCH TO PROTECT BARE AREAS FROM EROSION DURING CONSTRUCTION.
- 7. INPSECTION AND MAINTENANCE OF EROSION CONTROL DEVICES SHALL BE PERFORMED ON A REGULAR BASIS. IF AT ANY TIME DURING CONSTRUCTION, THE EROSION AND SEDIMENT CONTROL MEASURES INSTALLED FAIL TO FUNCTION PROPERLY, NEED MAINTENANCE OR REPAIR, OR NEED NEW REPLACEMENT IN KIND, THE CONTRACTOR WILL EFFECT SUCH ACTIONS AS ARE NEEDED TO CORRECT THE SITUATION AT NO ADDITIONAL COST TO THE OWNER.
- 8. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY CONSTRUCTION ACTIVITY. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST CONTROL ARE PROHIBITED.
- 9. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- 10. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED. DISTURBED AREAS WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED.
- 11. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT AND EROSION CONTROL DEVICES AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- 12. THE CONTRACTOR SHALL REMOVED SEDIMENT BUILD UP FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 13. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONLY AFTER A GOOD STAND OF VEGETATIVE COVER HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.

UTILITY NOTES:

- 1. ALL WATER LINES, SEWER LINES AND APPURTENANCES SHALL BE CONSTRUCTED OF MATERIALS THAT CONFORM WITH LOCAL AGENCY(S) AND UTILITY PROVIDER DETAILS AND SPECIFICATIONS.
- 2. SANITARY SEWER SHALL BE OF MATERIAL AS SPECIFIED ON PLANS. POLYVINYLCHLORIDE (PVC) SHALL MEETASTM D3034 SDR35. DUCTILE IRON PIPE (DIP) SHALL MEET ANSI21.51/AWWA C-151 CLASS 52.
- 3. WATER LINES SHALL BE OF MATERIAL AS SPECIFIED ON PLANS. CEMENT LINED DUCTILE IRON (DIP) SHALL MEET AWWA C-151CLASS 52. POLYVINYLCHLORIDE (PVC) SHALL MEET AWWA C-900, SDR 18, CLASS 150.
- 4. A MINIMUM COVER OF 36" SHALL BE PROVIDED OVER ALL WATER LINES.
- 5. THE CONTRACTOR SHALL MAINTAIN A HORIZONTAL SEPARATION OF 10 FEET BETWEEN SANITARY SEWER LINES AND WATER LINES.
 WHERE THESE CRITERIA CANNOT BE MET, THE CONTRACTOR SHALL MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER
- 6. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE SURVEYOR AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND 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, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 7. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF THE POINT OF CONNECTIONS OF ALL UTILITIES PRIOR TO ORDERING OF MATERIALS OR COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- 8. THE CONTRACTOR SHALL COORDINATE THE SEQUENCE OF CONSTRUCTION FOR ALL UTILITY LINES TO PREVENT CONFLICTS WITH EXISTING OR PROPOSED WATER LINES, SANITARY SEWER LINES, SANITARY SEWER SERVICES, STORM SEWERS, OR ANY OTHER UTILITY OR
- 9. BEFORE CONNECTIONS ARE MADE INTO EXISTING UTILITIES, THE NEW LINES ARE TO BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE LOCAL AGENCY(S) AND UTILITY PROVIDER(S) WATER AND SEWER SPECIFICATIONS.
- 10. REDUCED PRESSURE BACKFLOW PREVENTOR (RPBP) OR DUAL CHECK WILL BE REQUIRED ON ALL TESTS AND FILL LINES (JUMPER) NEEDED FOR WATER MAIN CONSTRUCTION AND MUST BE APPROVED BY LOCAL AGENCY AND UTILITY PROVIDER.
- 11. THE CONTRACTOR SHALL PROVIDE ALL HORIZONTAL AND VERTICAL BENDS TO ATTAIN THE ALIGNMENT INDICATED ON THE PLANS.
 PROVIDE VERTICAL BENDS WHERE NECESSARY TO ALLOW WATER LINES TO PASS UNDER OR OVER OTHER UTILITY LINES (ALL BENDS AND BRACES NEEDED MAY NOT BE SHOWN ON THESE PLANS). PROVIDE BRACING AND/OR RODDING AT ALL BENDS AND TEES AS REQUIRED.
- 12. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF UTILITY CONNECTIONS AT THE BUILDING WITH PLUMBING PLANS.
- 13. PROPOSED GAS LINE, ELECTRIC LINE AND TELEPHONE LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY PROVIDERS.
- 14. THE EXISTING SITE CONTAINS AN UNDERGROUND IRRIGATION SYSTEM. THE CONTRACTOR MUST PROVIDE CAPS FOR LINES THAT MUST BE CUT, AND RE-ROUTE THE IRRIGATION SYSTEM TO ACCOMMODATE EXCAVATION FOR THE PROPOSED PROJECT. THE IRRIGATION SYSTEM SHALL BE REINSTALLED ON A DESIGN BUILD BASIS PRIOR TO THE END OF CONSTRUCTION.
- 15. EXISTING CASTINGS LOCATED IN FILL/CUT AREAS SHALL BE ADJUSTED TO ENSURE THAT THE TOP OF CASTING IS FLUSH WITH THE FINISHED GRADE.
- 16. THE CONTRACTOR SHALL MARK THE LOCATION OF ALL NEW PVC LINES WITH #8 WIRE.17. ALL CONNECTIONS TO EXISTING MANHOLES SHALL BE BY THE CORING AND RESILIENT SEAL METHOD.
- 18. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- 19. ALL FIRE LINES SHALL BE INSTALLED BY A SPRINKLER CONTRACTOR LICENSED IN THE STATE OF THE PROJECT.
- 20. PRIOR TO SUBMITTING OF BID, THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS.

EROSION CONTROL TYPICAL NOTES:

- 1. ALL CONTROL MEASURES MUST BE PROPERLY SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURE'S SPECIFICATIONS AND THE CONTRACT DOCUMENTS. IF PERIODIC INSPECTIONS OR OTHER INFORMATION INDICATES A CONTROL HAS BEEN USED INAPPROPRIATELY OR
- INCORRECTLY, THE CONTRACTOR MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS.

 2. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS. PERMITTEES SHALL NOT INITIATE REMEDIATION/RESTORATION OF A STREAM WITHOUT CONSULTING THE DIVISION FIRST. THIS PERMIT DOES NOT, HOWEVER, AUTHORIZE ACCESS TO PRIVATE PROPERTY.
- 3. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS, AND OTHER SEDIMENT CONTROLS AS NECESSARY, AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 33%.
- 4. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER SHALL BE PICKED UP PRIOR TO ANTICIPATED STORM EVENTS, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.
- PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 20 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
- CLEARING AND GRUBBING MUST BE HELD TO THE MINIMUM NECESSARY FOR GRADING AND EQUIPMENT OPERATION.
- 7. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
- 8. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT MUST BE REPLACED AT THE END OF THE WORK DAY.
- 9. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON SITE; THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- 10. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. EXCEPT IN THE FOLLOWING TWO SITUATIONS: 1. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL; OR 2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 15 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE.
- 11. CONSTRUCTION MUST BE PHASED FOR PROJECTS IN WHICH OVER 50 ACRES OF SOIL WILL BE DISTURBED. AREAS OF THE COMPLETED PHASE MUST BE STABILIZED WITHIN 21 DAYS AFTER ANOTHER PHASE HAS BEEN INITIATED OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES: AFTER USE, SILT FENCES SHOULD BE REMOVED OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.
- 12. TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE ACCOMPLISHED WITHIN 15 DAYS AFTER FINAL GRADING OR OTHER EARTH WORK.
 PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE SHALL REPLACE ANY
 TEMPORARY MEASURES AS SOON AS PRACTICABLE.
- 13. NO SOLID MATERIALS INCLUDING BUILDING MATERIAL, SHALL BE DISCHARGED TO WATERS OF THE UNITED STATES EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT AND/OR TENNESSEE AQUATIC RESOURCE ALTERATION PERMIT
- 14. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED.

SCHEDULE OF INSPECTIONS AND MAINTENANCE NOTES

- 1. INSPECTIONS SHALL BE DONE BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF STORM EVENTS SUCH AS INTERMITTENT SHOWERS OVER ONE OR MORE DAYS), AND WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.25 INCHES OR GREATER, AND AT LEAST TWICE EVERY SEVEN CALENDAR DAYS, NOT ON CONSECUTIVE DAYS. WHEN PORTIONS OF THE SITE HAVE BEEN FINALLY OR TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G. SITE COVERED WITH SNOW, ICE OR FROZEN GROUND), SUCH INSPECTION ONLY HAS TO BE CONDUCTED ONCE PER MONTH.
- 2. INSPECTIONS AND ASSOCIATED NECESSARY REPAIRS DONE 60 HOURS BEFORE A RAIN EVENT CONSTITUTE COMPLIANCE WITH "BEFORE ANTICIPATED STORM EVENTS," AND INSPECTIONS AND REPAIRS ON A FRIDAY MEET THE REQUIREMENTS FOR RAIN EVENTS OVER THE WEEKEND.
- QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR
- 4. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN AND IN THE CONTRACT DOCUMENTS SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.
- 5. OUTFALL POINTS (WHERE DISCHARGES FROM THE SITE ENTER STREAMS OR WET WEATHER CONVEYANCES) SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED IF POSSIBLE. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
- 6. BASED ON THE RESULTS OF THE INSPECTION, ANY INADEQUATE CONTROL MEASURES OR CONTROL MEASURES IN DISREPAIR SHALL BE REPLACED OR MODIFIED, OR REPAIRED AS NECESSARY, BEFORE THE RAIN EVENT IF POSSIBLE, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE NEED IS IDENTIFIED. IF MAINTENANCE PRIOR TO THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICABLE, MAINTENANCE MUST BE SCHEDULED AND ACCOMPLISHED AS SOON AS PRATICABLE.
- 7. BASED ON THE RESULTS OF THE INSPECTION, THE SITE DESCRIPTION PROVIDED, AND THE POLLUTION PREVENTION MEASURES PRESENTED IN THIS PLAN MAY BE REVISED AS APPROPRIATE, BUT IN NO CASE LATER THAN 14 CALENDAR DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THIS PLAN IN NO CASE LATER THAN 21 CALENDAR DAYS FOLLOWING THE
- INSPECTIONS SHALL BE DOCUMENTED AND INCLUDE THE SCOPE OF THE INSPECTION, NAME(S) AND TITLE OR QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (INCLUDING THE LOCATIONS(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE AND OF ANY CONTROL DEVICE THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION AND ACTIONS TAKEN IN ACCORDANCE IN PARAGRAPH 6 ABOVE.



ARCHITECTURE
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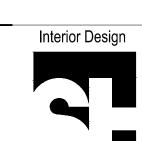
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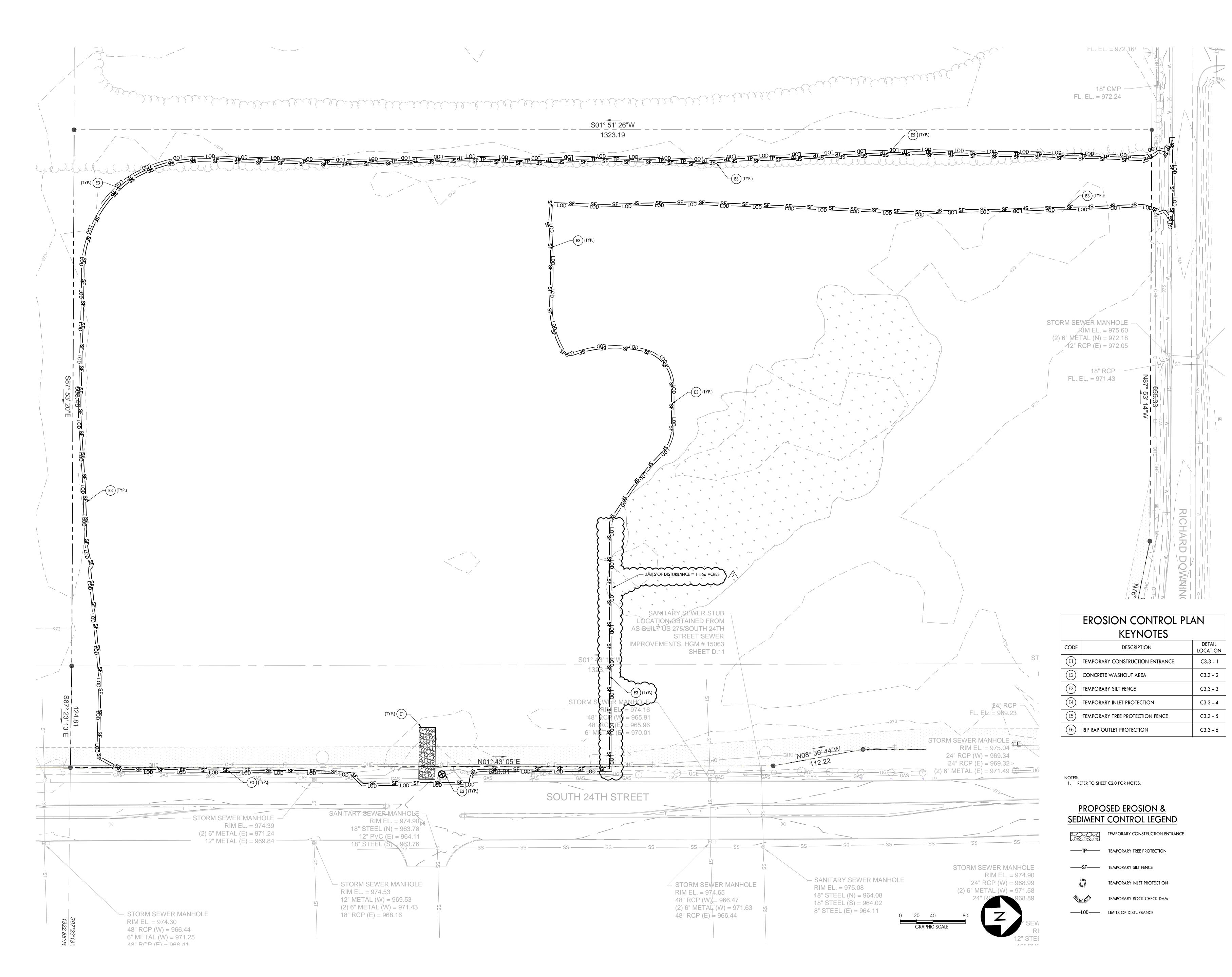




W BEHAVIORAL HEALTH HOSPITA HEALTHCARE COMPANY, INC.

30 Oct 2023 AHC2246

C2.0



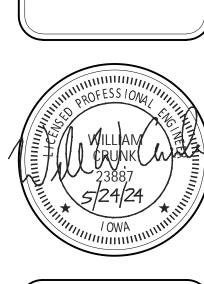
STENGEL-HILL ARCHITECTURE

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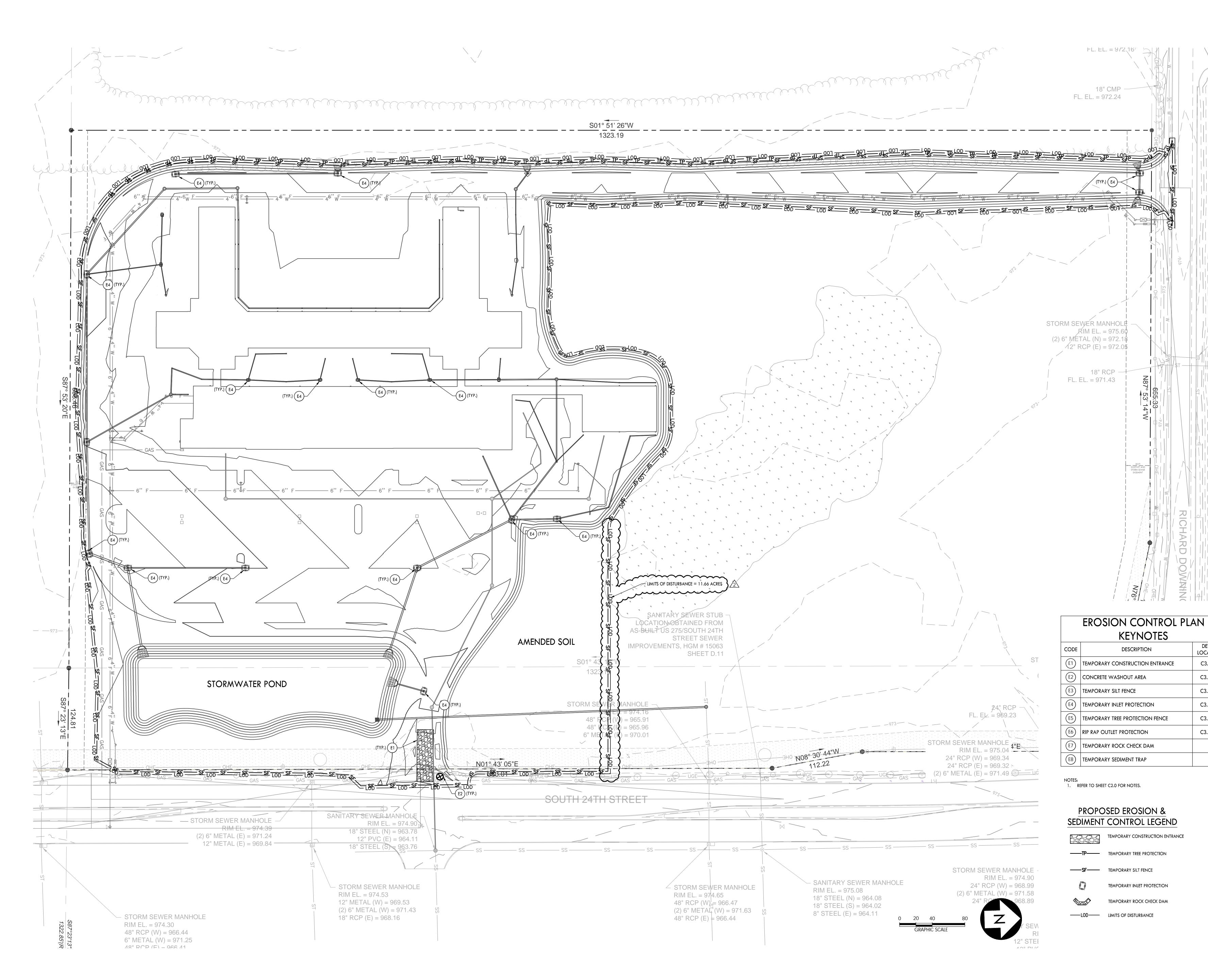
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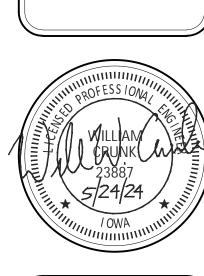
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NEW BEHAVIOF HEALTHCA COUNCII

DETAIL LOCATION

C3.3 - 1

C3.3 - 2

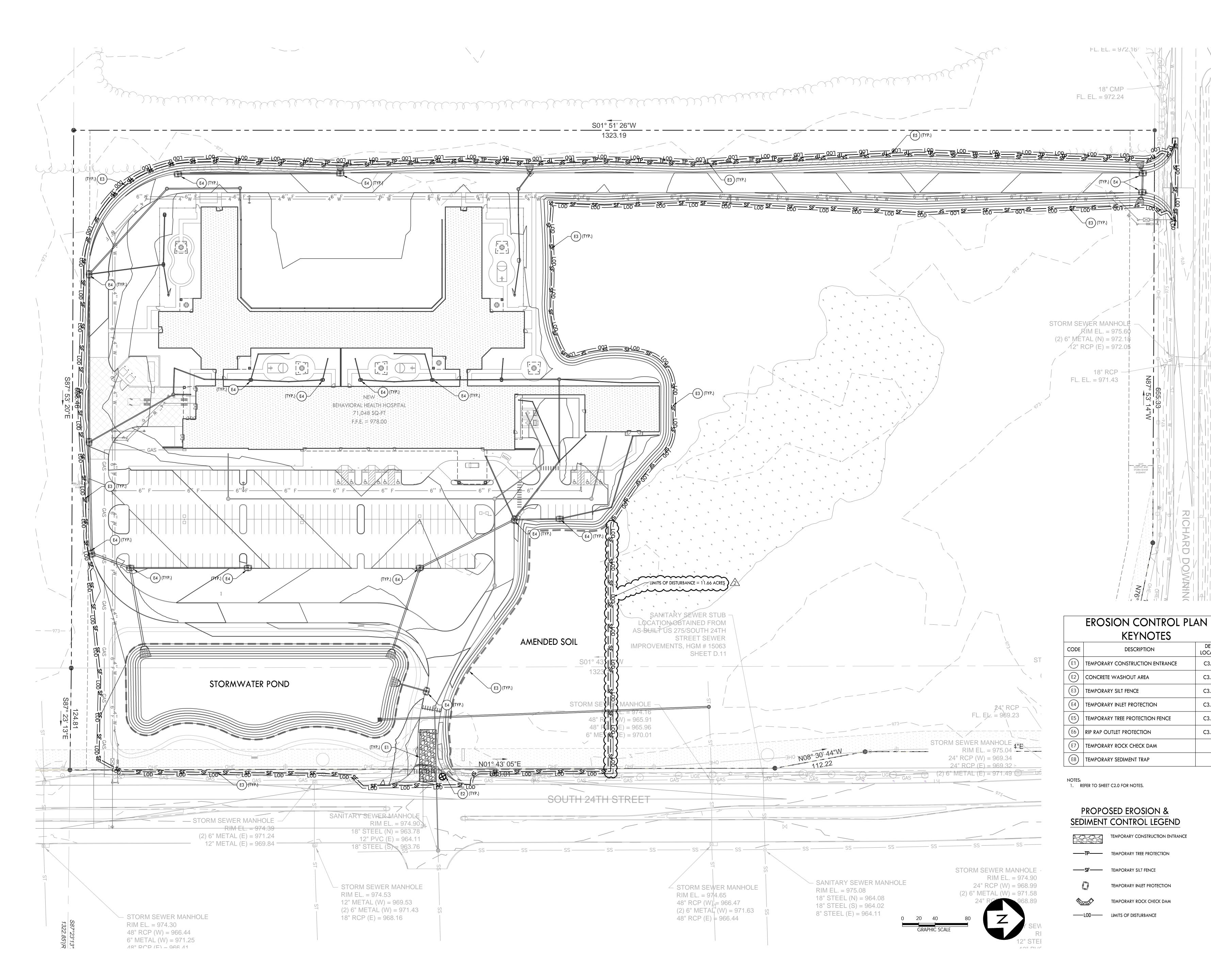
C3.3 - 3

C3.3 - 4

C3.3 - 5

C3.3 - 6

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DETAIL LOCATION

C3.3 - 1

C3.3 - 2

C3.3 - 3

C3.3 - 4

C3.3 - 5

C3.3 - 6

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NOT TO SCALE



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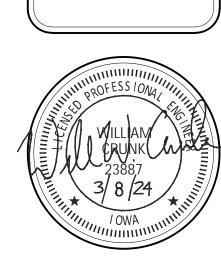




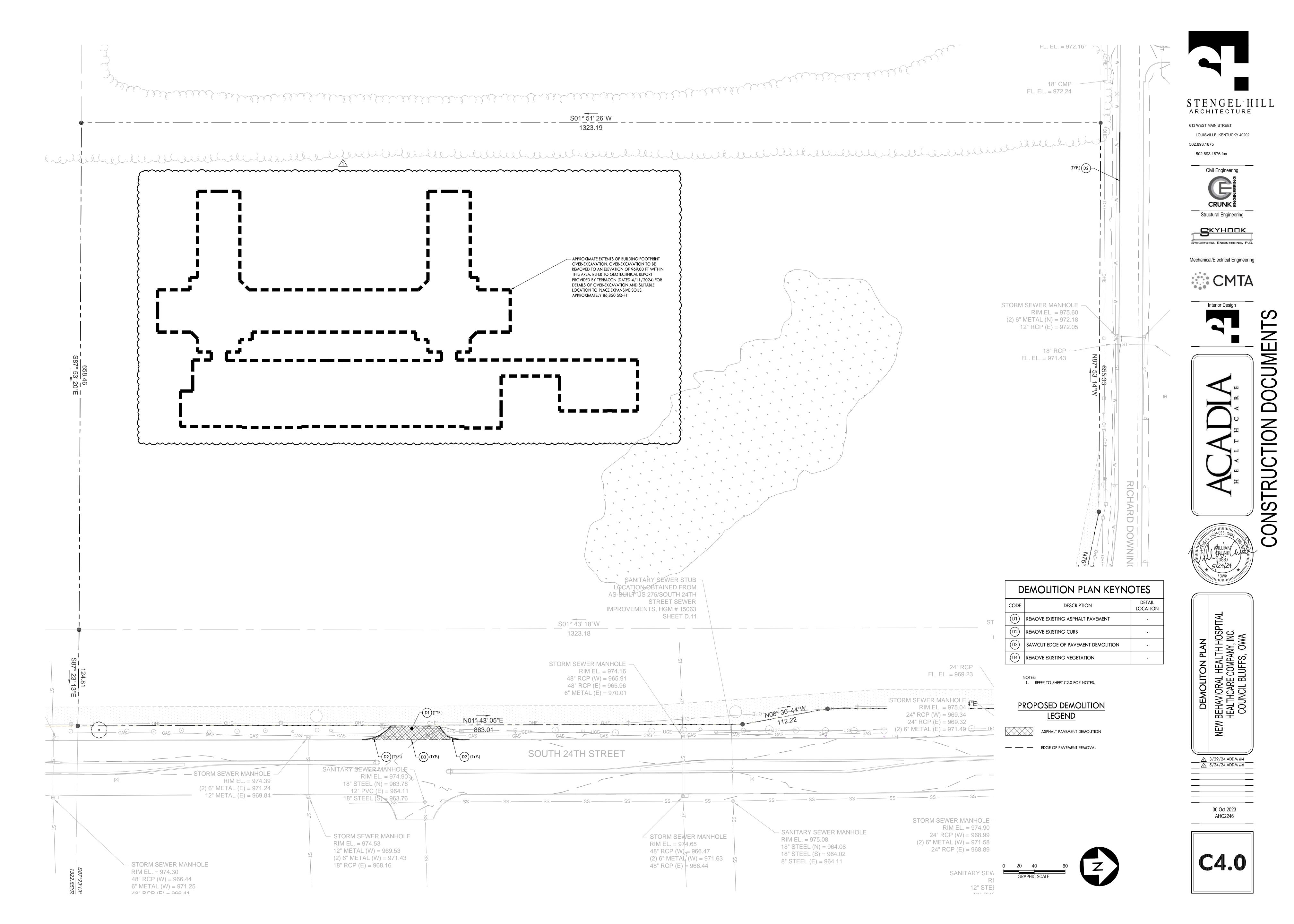
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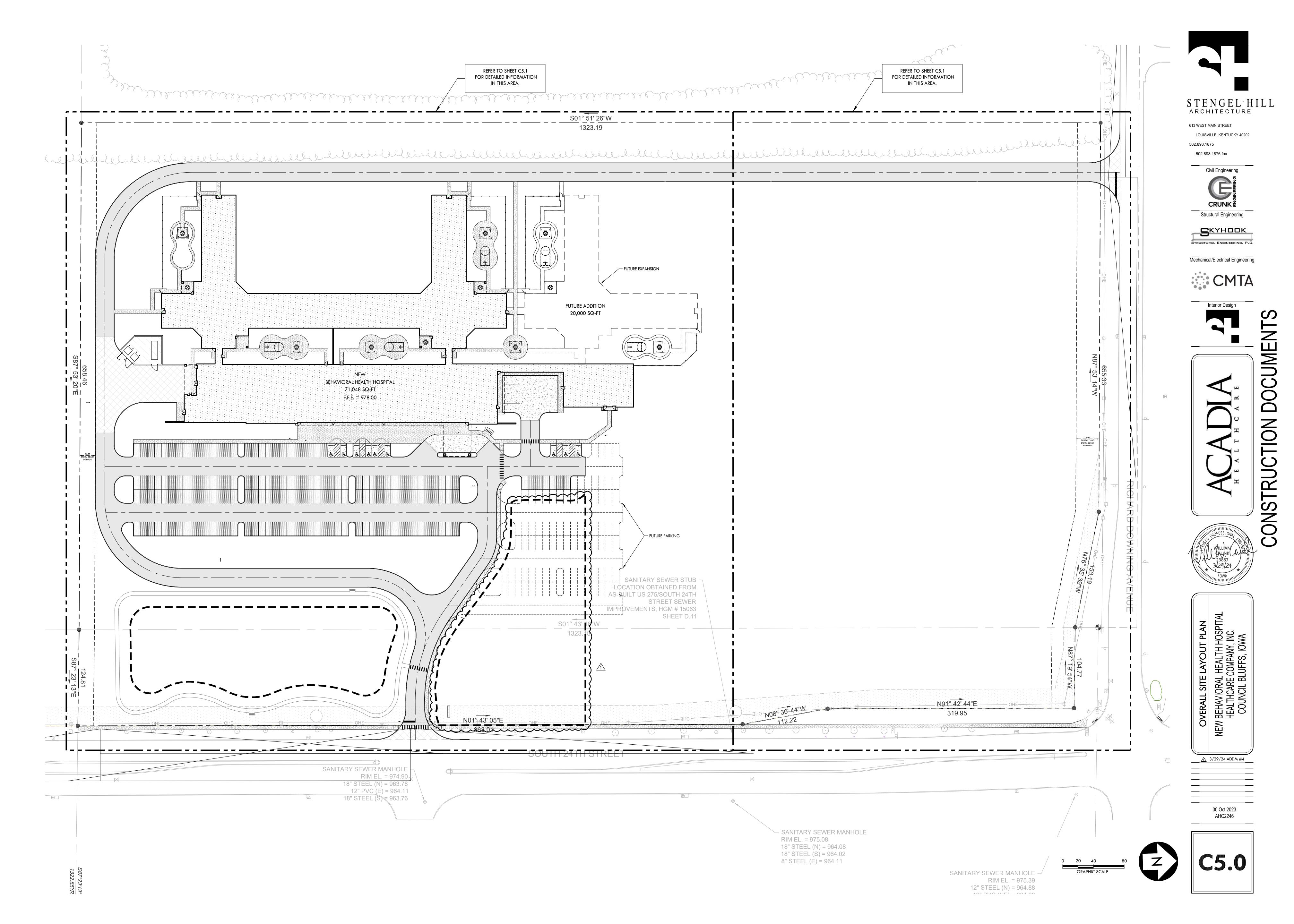
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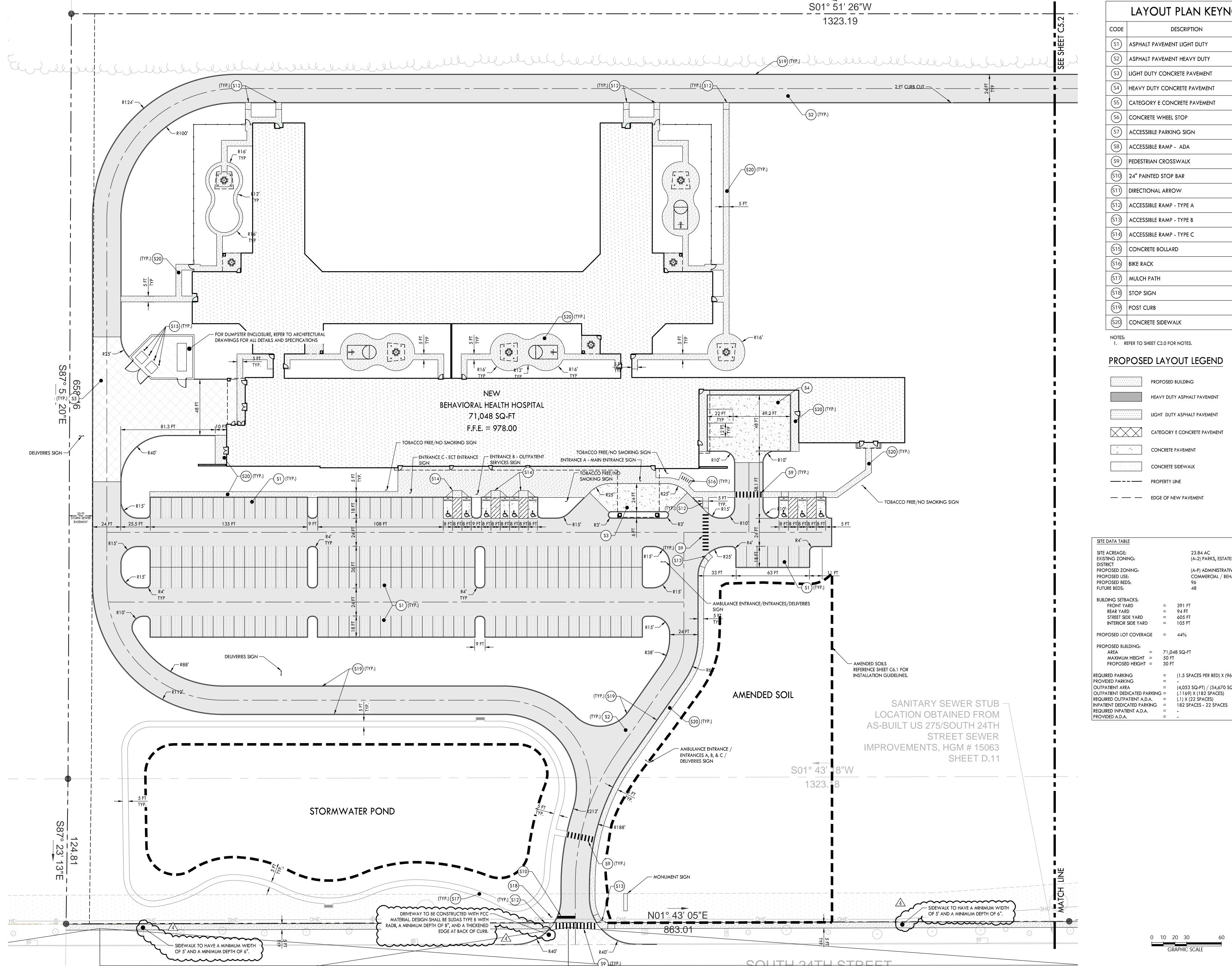




NEW BEHAVIORAL HEALTH HOSPITAL HEALTHCARE COMPANY, INC. COUNCIL BLUFFS, IOWA









C8.3 - 5

C8.0 - 2

C8.0 - 3

= 22 SPACES

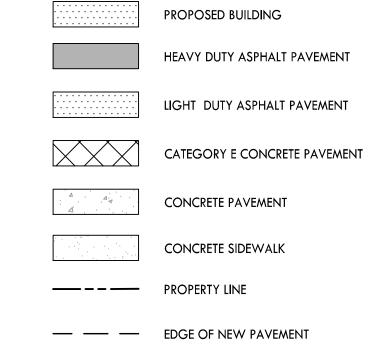
= 160 SPACES

= 6 SPACES

= 9 SPACES

= 3 SPACES

PROPOSED LAYOUT LEGEND



(A-2) PARKS, ESTATES, AND AGRICULTURAL (A-P) ADMINISTRATIVE-PROFESSIONAL DISTRICT COMMERCIAL / BEHAVIORAL HEALTH HOSPITAL = $(1.5 \text{ SPACES PER BED}) \times (96 \text{ BEDS}) = 144 \text{ SPACES}$ = 182 SPACES (4,053 SQ-FT) / (34,670 SQ-FT) = 11.69 %

STENGEL HILL ARCHITECTURE 613 WEST MAIN STREET LOUISVILLE, KENTUCKY 40202 502.893.1875 502.893.1876 fax Civil Engineering

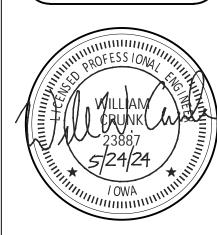
CRUNK A Structural Engineering

Mechanical/Electrical Engineering





CONSTRUCTION

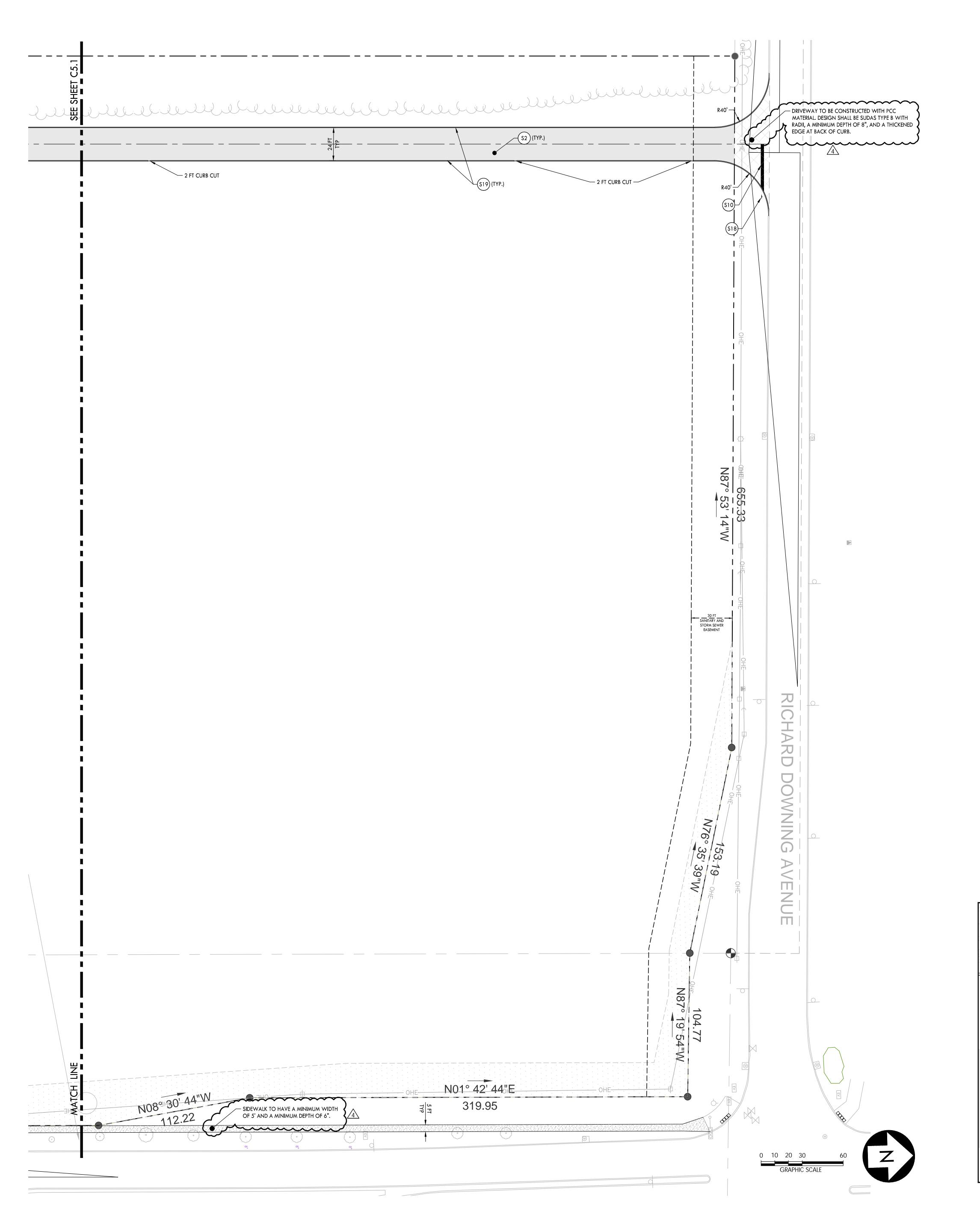


SITE LAYOUT PL BEHAVIORAL I HEALTHCARE C COUNCIL BL

3/29/24 ADDM #4 4 5/24/24 ADDM #6

AHC2246

C5.1



PROPOSED LAYOUT LEGEND

PROPOSED BUILDING

HEAVY DUTY ASPHALT PAVEMENT

LIGHT DUTY ASPHALT PAVEMENT

CATEGORY E CONCRETE PAVEMENT

CONCRETE PAVEMENT

CONCRETE SIDEWALK

PROPERTY LINE

	LAYOUT PLAN KEYNOT	ES
CODE	DESCRIPTION	DETAIL LOCATION
<u>S1</u>	ASPHALT PAVEMENT LIGHT DUTY	C8.0 - 1
(S2)	ASPHALT PAVEMENT HEAVY DUTY	C8.0 - 1
S3	LIGHT DUTY CONCRETE PAVEMENT	C8.0 - 1
<u>S4</u>	HEAVY DUTY CONCRETE PAVEMENT	C8.0 - 1
<u>(S5)</u>	CATEGORY E CONCRETE PAVEMENT	C8.0 - 1
<u>S6</u>	CONCRETE WHEEL STOP	C8.0 - 4
S7	ACCESSIBLE PARKING SIGN	C8.0 - 5
<u>S8</u>	ACCESSIBLE RAMP - ADA	C8.0 - 6
<u>(S9)</u>	PEDESTRIAN CROSSWALK	C8.0 - 7
S10	24" PAINTED STOP BAR	C8.0 - 8
(S11)	DIRECTIONAL ARROW	C8.0 - 9
S12	ACCESSIBLE RAMP - TYPE A	C8.3 - 1
S13	ACCESSIBLE RAMP - TYPE B	C8.3 - 2
<u>(\$14)</u>	ACCESSIBLE RAMP - TYPE C	C8.3 - 3
S15)	CONCRETE BOLLARD	-
<u>(\$16)</u>	BIKE RACK	C8.3 - 5
S17	MULCH PATH	-
S18)	STOP SIGN	-
	1	i

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.

(\$19) POST CURB

S20 CONCRETE SIDEWALK

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CRUNK III

SKYHOOK

STRUCTURAL ENGINEERING, P.C.

Mechanical/Electrical Engineering

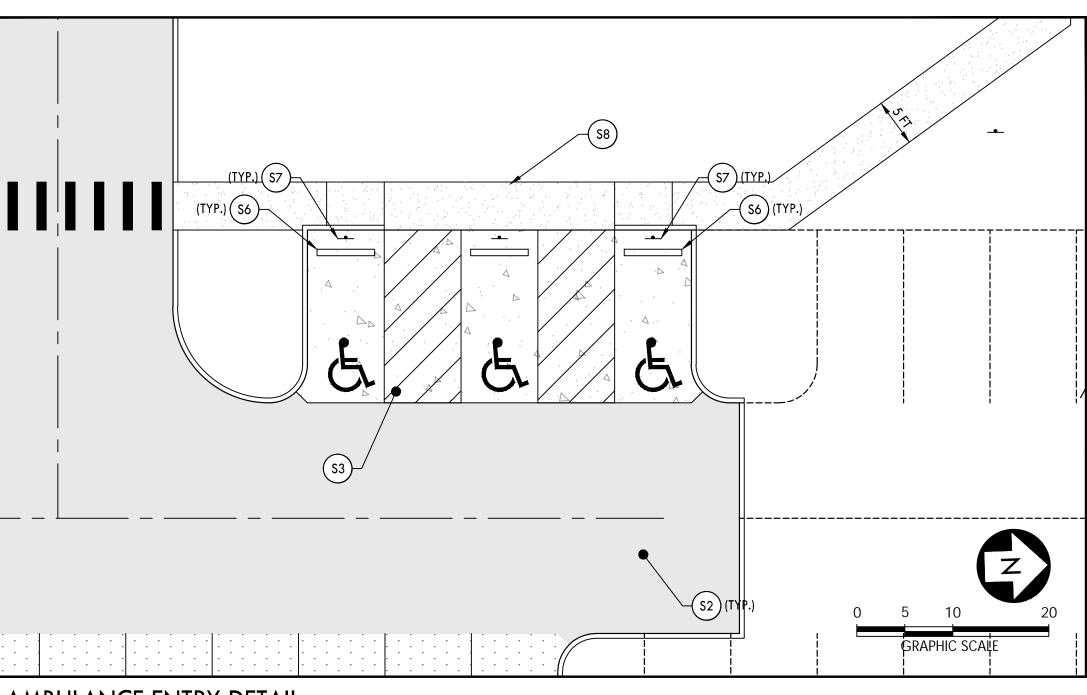




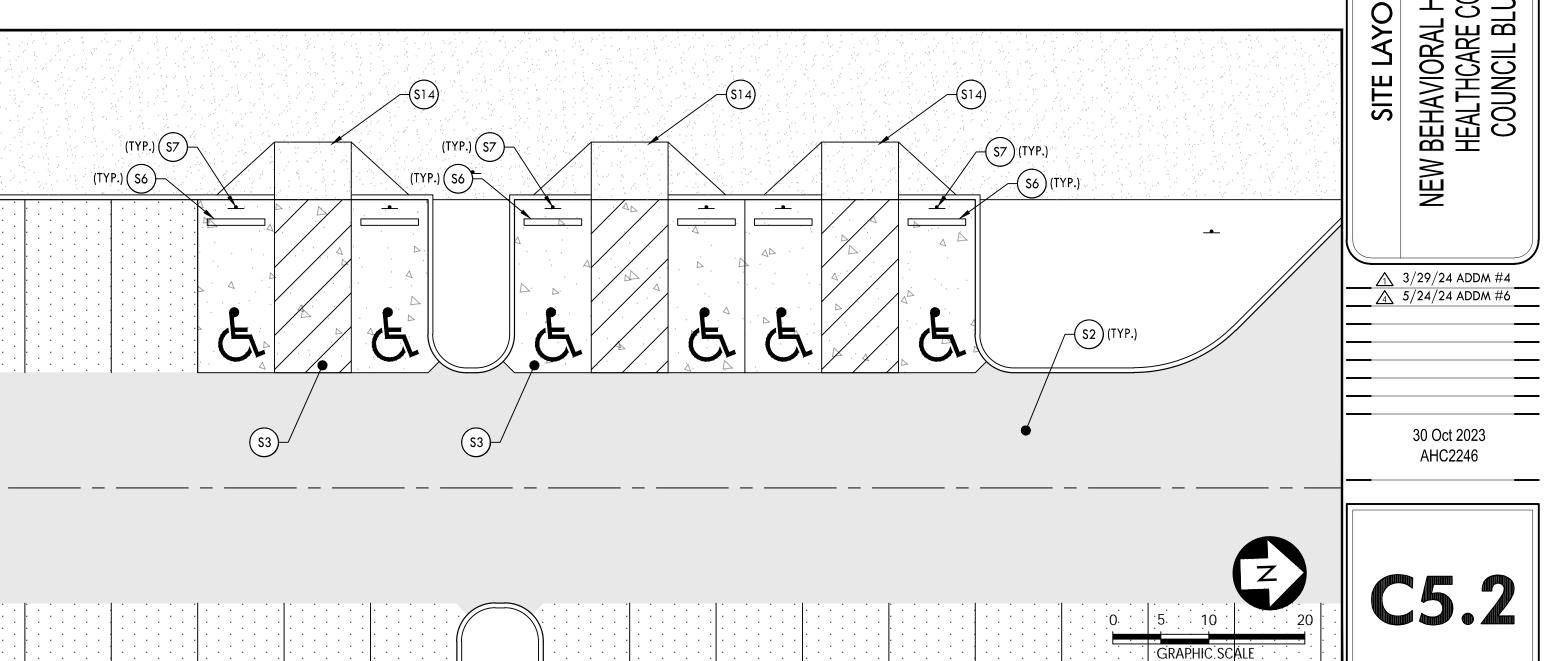
C8.0 - 2

C8.0 - 3

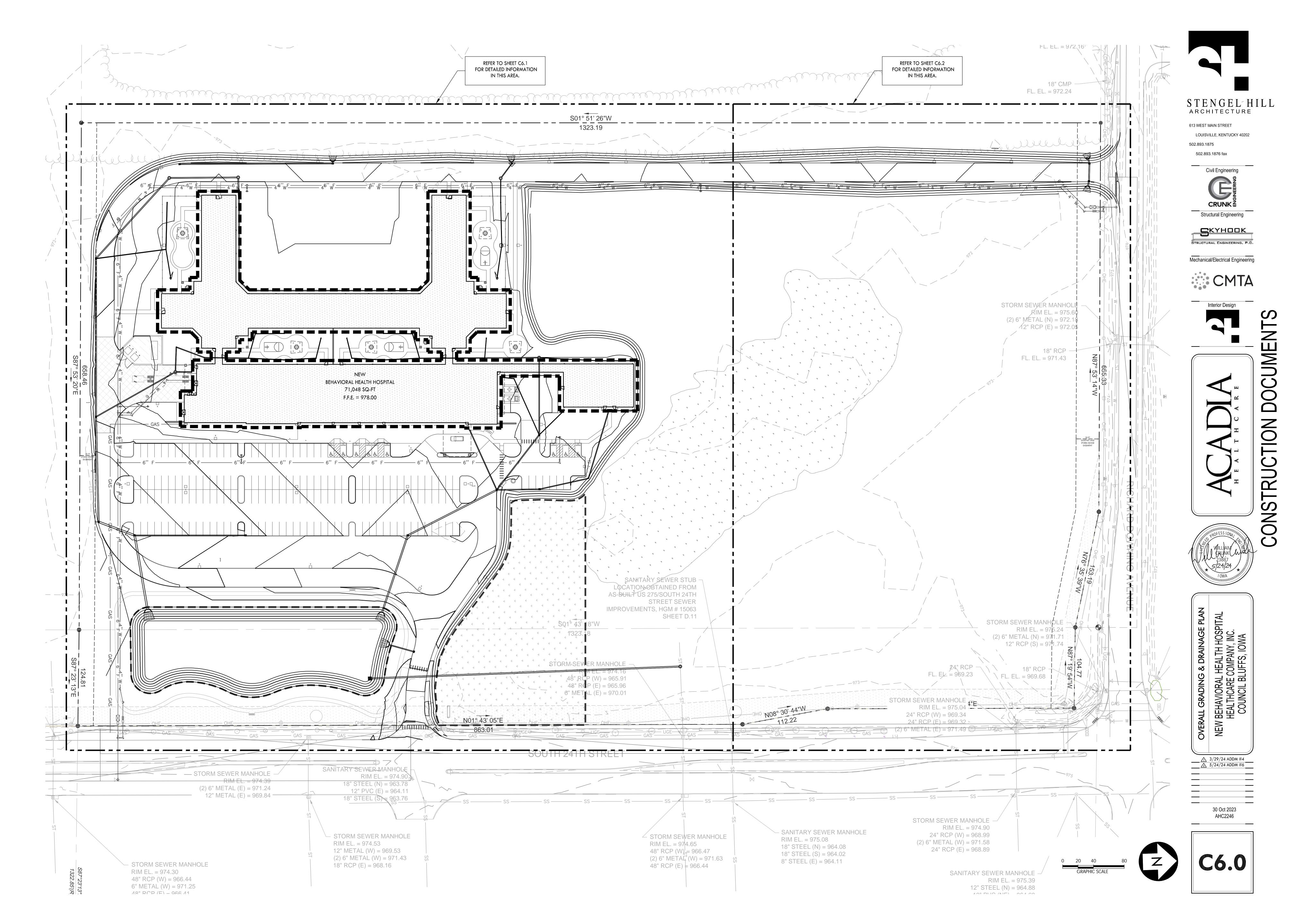
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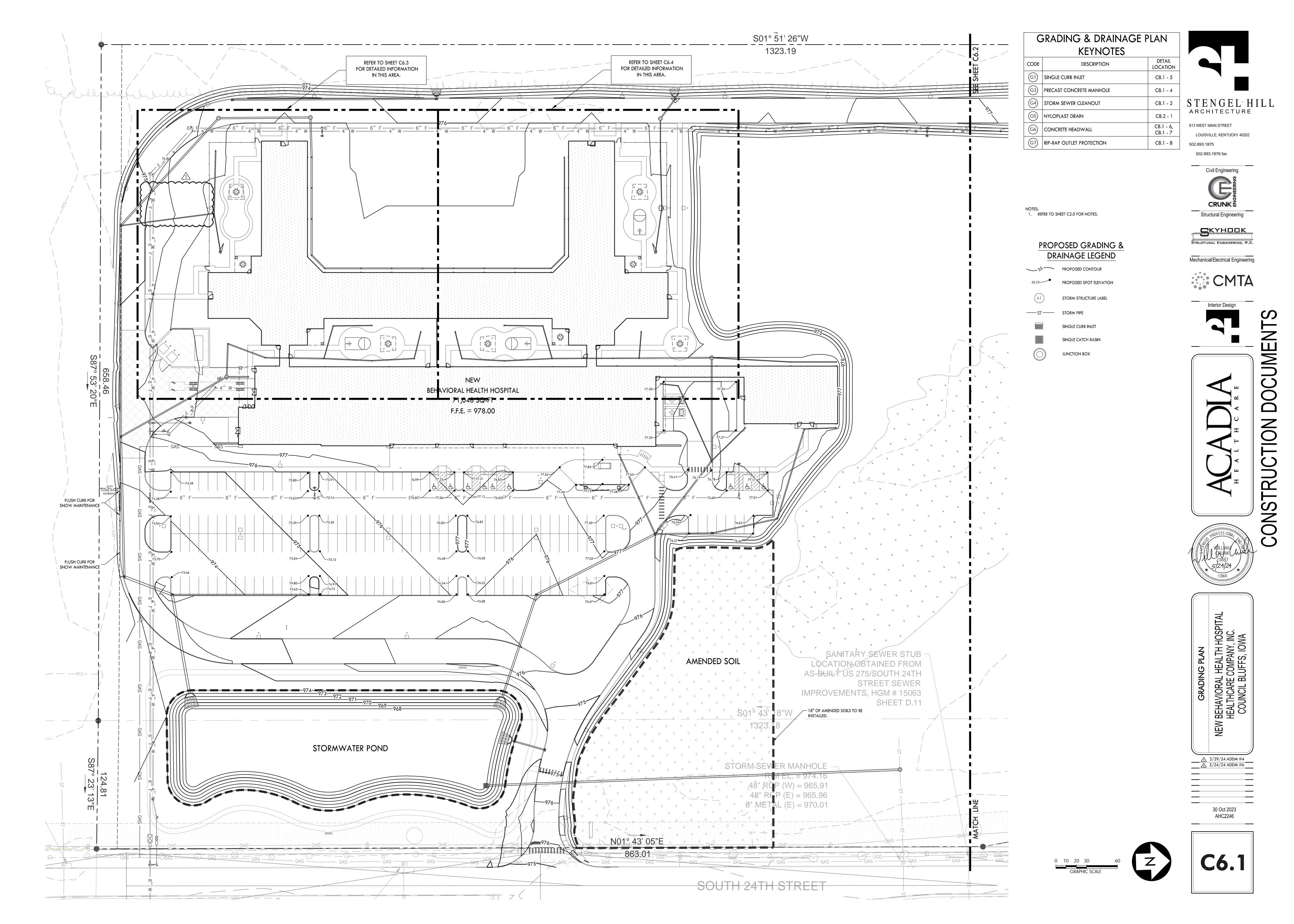


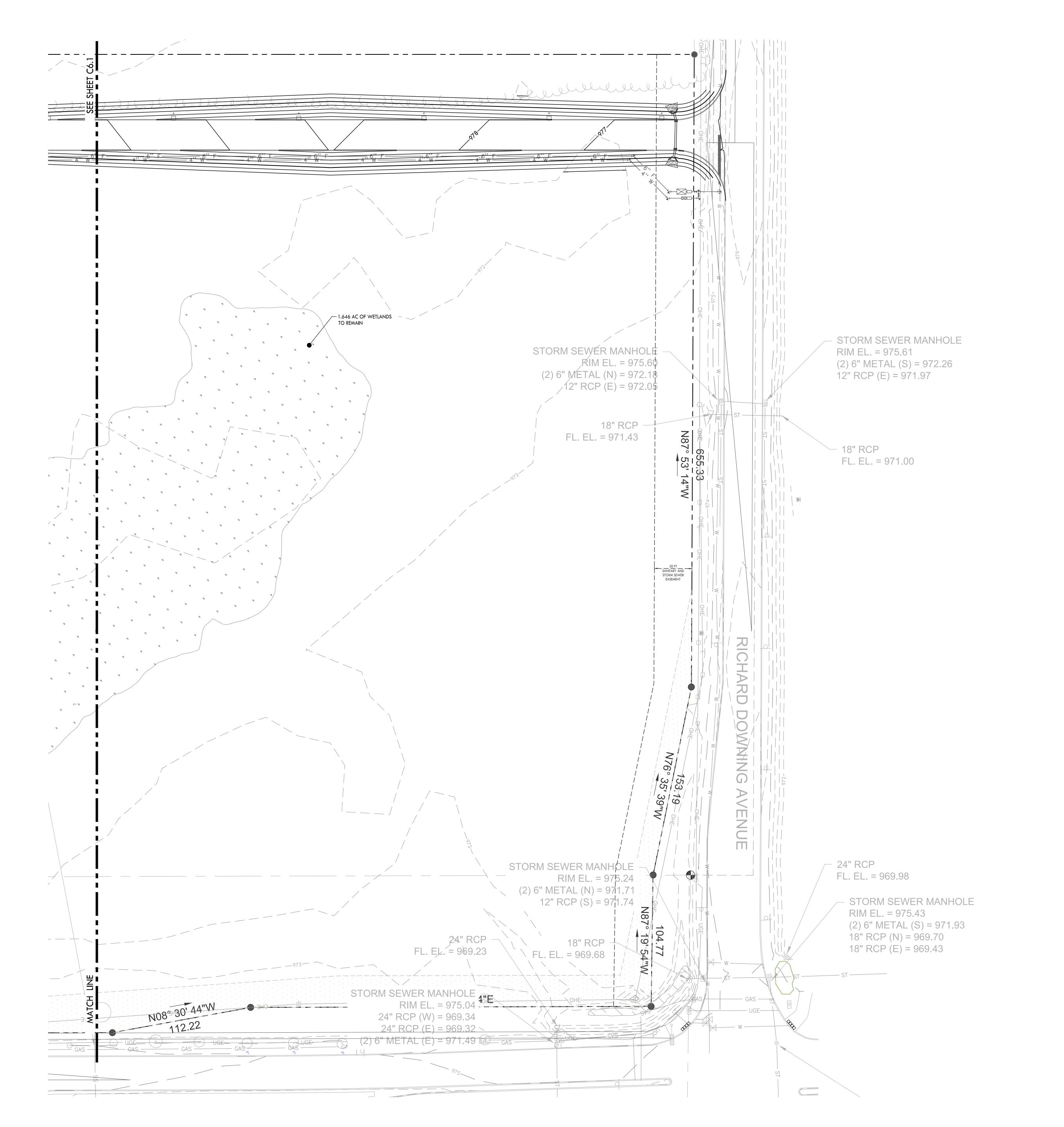
AMBULANCE ENTRY DETAIL



FRONT ENTRY DETAIL







GRADING & DRAINAGE PLAN **KEYNOTES**

	KLINOILS	
CODE	DESCRIPTION	DETAIL LOCATIO
(G)	SINGLE CURB INLET	C8.1 - 5
G3	PRECAST CONCRETE MANHOLE	C8.1 - 4
(G4)	STORM SEWER CLEANOUT	C8.1 - 2
G5)	NYLOPLAST DRAIN	C8.2 -
G6)	CONCRETE HEADWALL	C8.1 - 6 C8.1 - 7
(G7)	RIP-RAP OUTLET PROTECTION	C8.1 - 8



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NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.

PROPOSED GRADING & DRAINAGE LEGEND

____55_____PROPOSED CONTOUR

PROPOSED SPOT ELEVATION

STORM STRUCTURE LABEL ----- ST ----- STORM PIPE

SINGLE CURB INLET

SINGLE CATCH BASIN

JUNCTION BOX

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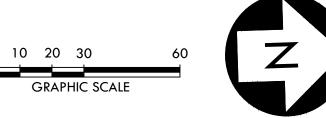
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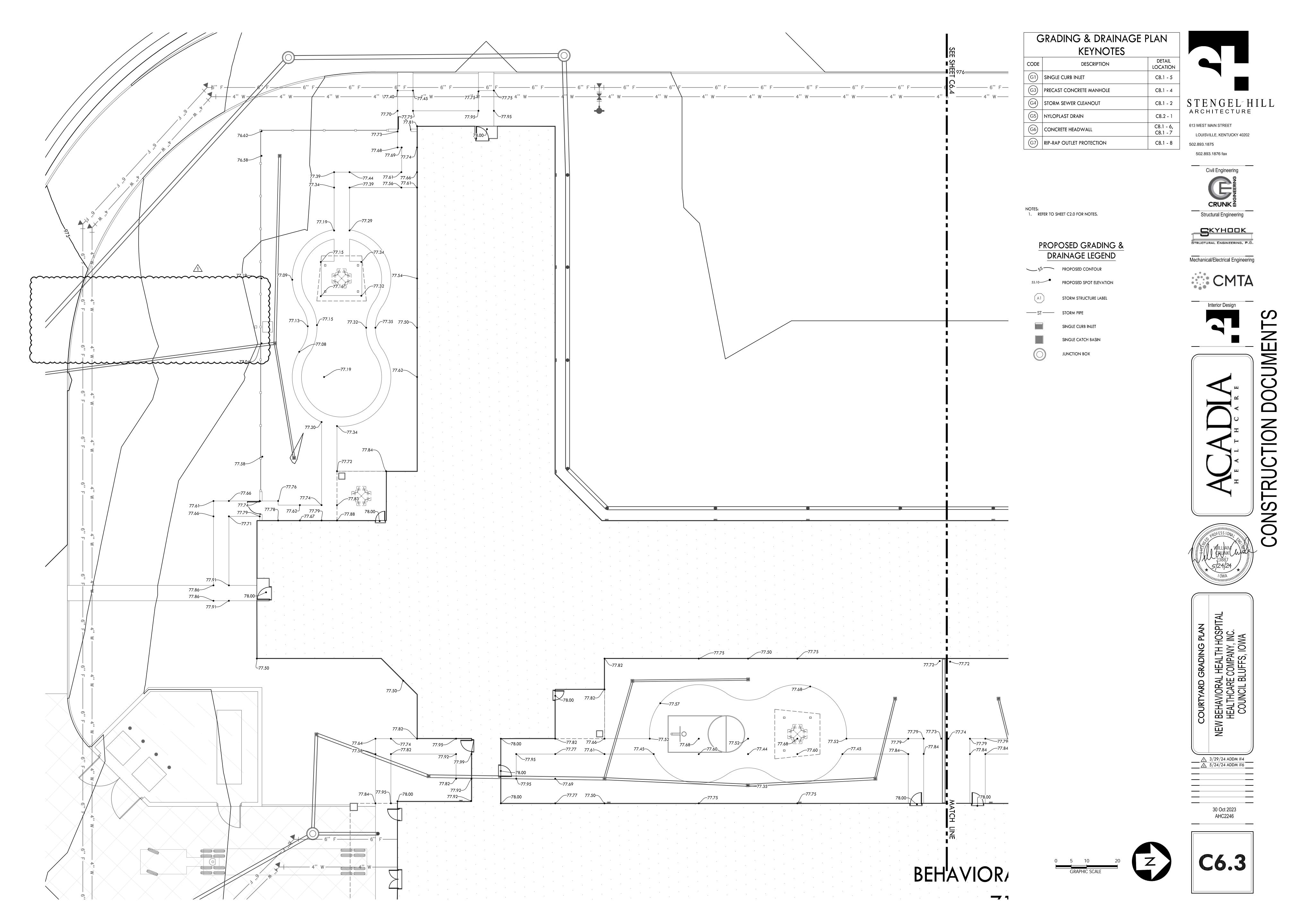
CMTA

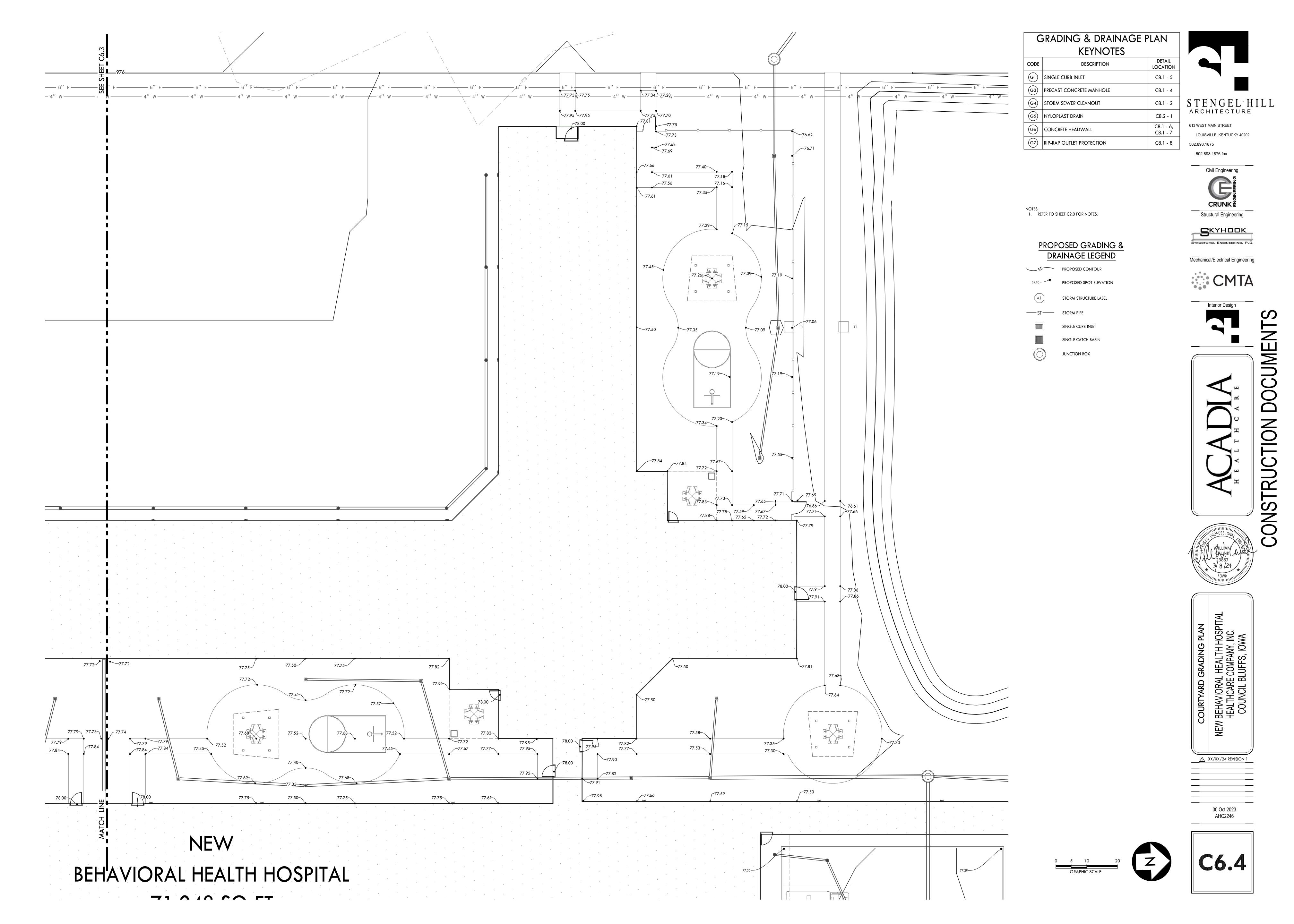


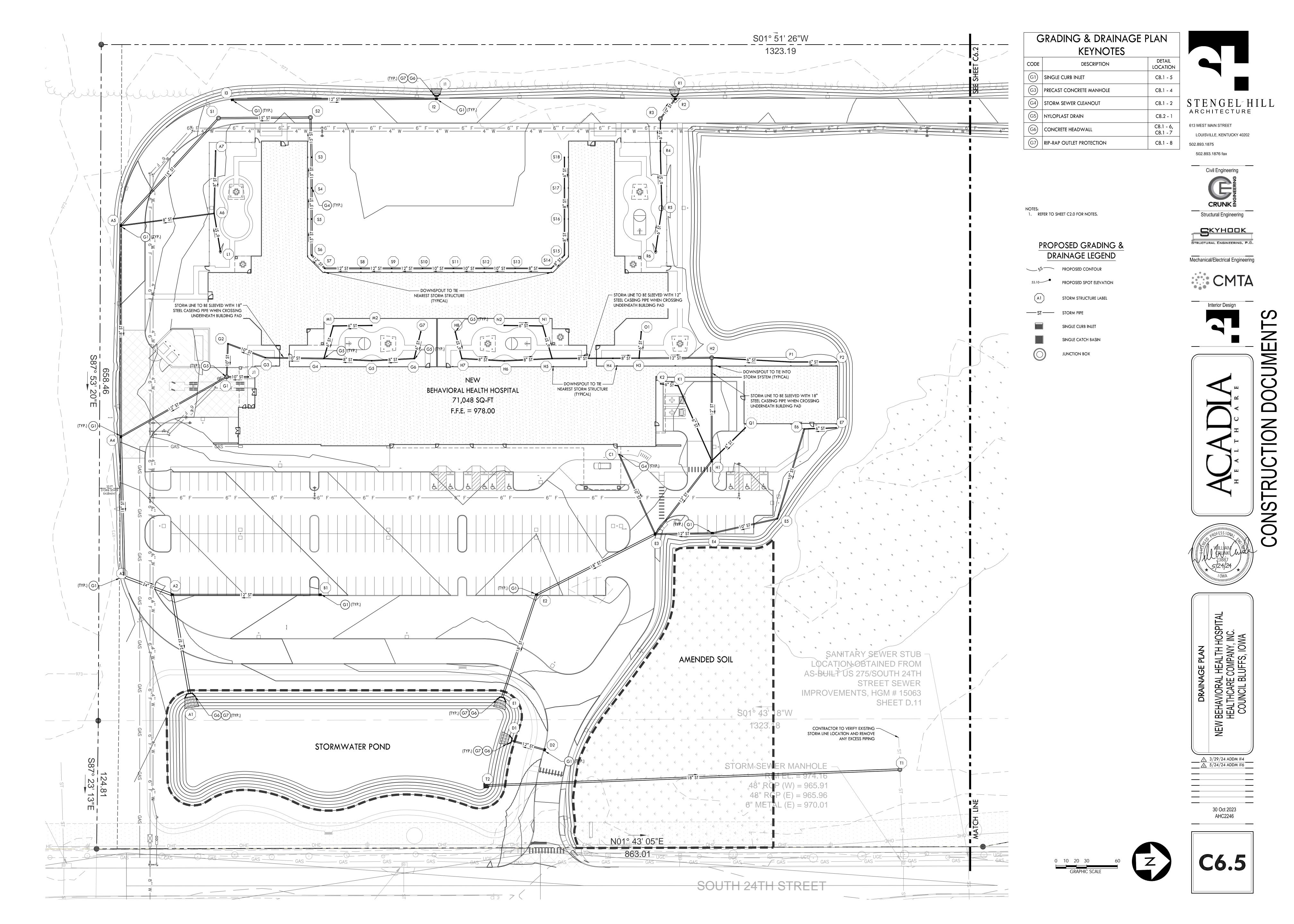


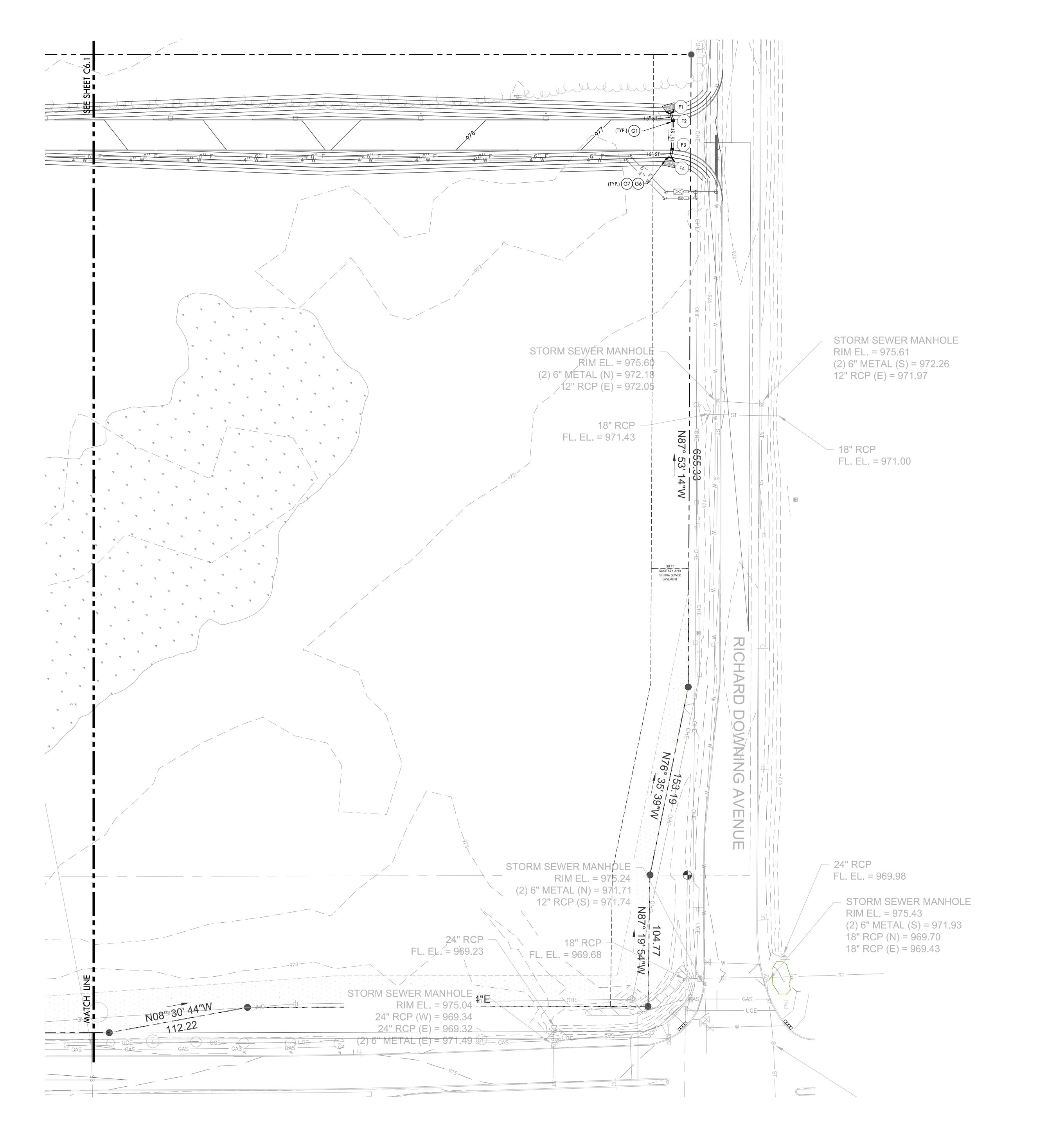












GRADING & DRAINAGE PLAN KEYNOTES

	KETINO 1E3	
CODE	DESCRIPTION	DETAIL LOCATIO
(5)	SINGLE CURB INLET	C8.1 - :
(33)	PRECAST CONCRETE MANHOLE	C8.1 - 4
(G4)	STORM SEWER CLEANOUT	C8.1 - 2
G5	NYLOPLAST DRAIN	C8.2 -
G6)	CONCRETE HEADWALL	C8.1 - 6 C8.1 - 7
(G7)	RIP-RAP OUTLET PROTECTION	C8.1 - 8



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NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.

PROPOSED GRADING & DRAINAGE LEGEND

____55_____ PROPOSED CONTOUR

PROPOSED SPOT ELEVATION

——ST —— STORM PIPE

SINGLE CURB INLET

SINGLE CATCH BASIN

STORM STRUCTURE LABEL

JUNCTION BOX

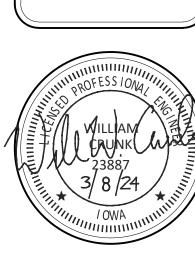
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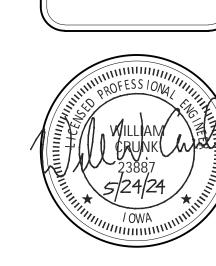








CONSTRUCTION DOC

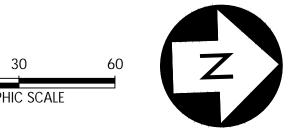


NEW BEHAVIORAL HEALTH HOSPITAL
HEALTHCARE COMPANY, INC.

△ 3/29/24 ADDM #4 △ 5/24/24 ADDM #6

> 30 Oct 202 AHC2246

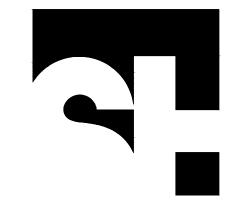
C6.7



		STORM STRUCT	URE TABLE
ID	RIM	INVERT	TYPE
A1	973.08	24" HDPE (IN): 968.00	30" - 36" CONCRETE HEADWALL
A2	973.29	12" HDPE (IN): 968.70 24" HDPE (IN): 968.70 24" HDPE (OUT): 968.60	SINGLE CURB INLET
A3	973.02	18" HDPE (IN): 969.10 24" HDPE (OUT): 969.00	SINGLE CURB INLET
A4	975.13	18" HDPE (IN): 970.10 12" HDPE (IN): 970.10 18" HDPE (OUT): 970.00	SINGLE CURB INLET
A5	974.23	15" HDPE (IN): 971.20 8" HDPE (IN): 971.20	SINGLE CURB INLET
A6	977.04	18" HDPE (OUT): 971.20 8" HDPE (IN): 974.10 6" HDPE (IN): 974.10	12" NYLOPLAST (LOCKABLE GRATE)
A7	976.52	8" HDPE (OUT): 974.10 8" HDPE (OUT): 974.50	12" NYLOPLAST (LOCKABLE GRATE)
B1	974.73	12" HDPE (OUT): 971.10	SINGLE CURB INLET
C1	977.91	10" HDPE (OUT): 972.00	STORM CLEANOUT
D1	973.41	12" HDPE (IN): 969.35	18" - 24" CONCRETE HEADWALL
D2	974.08	12" HDPE (OUT): 971.05	SINGLE CURB INLET
E1	972.06	18" HDPE (IN): 968.00	18" - 24" CONCRETE HEADWALL
E2	975.41	18" HDPE (IN): 968.55 18" HDPE (OUT): 968.50	SINGLE CURB INLET
E3	976.72	12" HDPE (IN): 970.65 10" HDPE (IN): 970.10 12" HDPE (IN): 970.10	SINGLE CURB INLET
E4	976.05	18" HDPE (OUT): 970.00 10" HDPE (IN): 971.05 12" HDPE (OUT): 970.95	SINGLE CURB INLET
E5	975.67	10" HDPE (IN): 971.40 10" HDPE (OUT): 971.40	STORM CLEANOUT
E6	977.95	6" HDPE (IN): 972.00 10" HDPE (OUT): 972.00	STORM CLEANOUT
E7	977.10	6" HDPE (OUT): 973.50	STORM CLEANOUT
F1	975.37	15" HDPE (OUT): 972.32	4" - 16" CONCRETE HEADWALL
F2	976.50	15" HDPE (IN): 972.27 15" HDPE (OUT): 972.26	SINGLE CURB INLET
F3	976.27	15" HDPE (IN): 972.19 15" HDPE (OUT): 972.19	SINGLE CURB INLET
F4	975.23	15" HDPE (IN): 972.17	4" - 16" CONCRETE HEADWALL
G1	977.54	10" HDPE (IN): 970.80 10" HDPE (IN): 971.20 12" HDPE (OUT): 970.70	JUNCTION MANHOLE
G2	977.01	10" HDPE (IN): 970.95 10" HDPE (OUT): 970.95	12" NYLOPLAST
G3	977.61	10" HDPE (IN): 970.95 10" HDPE (OUT): 971.14	12" NYLOPLAST
G4	977.28	8" HDPE (IN): 971.25 6" HDPE (IN): 971.25 10" HDPE (OUT): 971.25	12" NYLOPLAST (LOCKABLE GRATE)
G5	977.35	8" HDPE (IN): 972.75 8" HDPE (OUT): 972.75	12" NYLOPLAST (LOCKABLE GRATE)
G6	977.32	6" HDPE (IN): 974.15 8" HDPE (OUT): 974.15	12" NYLOPLAST (LOCKABLE GRATE)
G7	977.34	6" HDPE (OUT): 975.00 12" HDPE (IN): 970.75	12" NYLOPLAST (LOCKABLE GRATE)
Н1	976.06	6" HDPE (IN): 970.90 6" HDPE (IN): 973.60 12" HDPE (OUT): 970.65	SINGLE CURB INLET
H2	977.02	12" HDPE (IN): 971.45 6" HDPE (IN): 971.33 12" HDPE (OUT): 971.35	JUNCTION MANHOLE
Н3	977.42	6" HDPE (IN): 973.82 8" HDPE (IN): 971.85 12" HDPE (OUT): 971.85	12" NYLOPLAST
H4	977.73	8" HDPE (IN): 972.00 8" HDPE (OUT): 972.00	12" NYLOPLAST
H5	977.28	8" HDPE (IN): 973.10 6" HDPE (IN): 973.10 8" HDPE (OUT): 973.10	12" NYLOPLAST (LOCKABLE GRATE)
H6	977.35	8" HDPE (IN): 973.95 8" HDPE (OUT): 973.95	12" NYLOPLAST (LOCKABLE GRATE)
H7	977.32	6" HDPE (IN): 974.75 8" HDPE (OUT): 974.75	12" NYLOPLAST (LOCKABLE GRATE)
Н8	977.31	6" HDPE (OUT): 975.30	12" NYLOPLAST (LOCKABLE GRATE)
11	975.95	12" HDPE (IN): 972.90	4" - 16" CONCRETE HEADWALL
12	975.38	12" HDPE (IN): 973.01 12" HDPE (OUT): 972.95	SINGLE CURB INLET
13	976.33	12" HDPE (OUT): 974.00	SINGLE CURB INLET
J1	977.90	10" HDPE (OUT): 972.00	STORM CLEANOUT
K1	977.16	6" HDPE (IN): 971.65 6" HDPE (OUT): 971.65	STORM CLEANOUT
K2	977.86	6" HDPE (OUT): 972.00	STORM CLEANOUT
L1	976.91	6" HDPE (OUT): 974.90	12" NYLOPLAST (LOCKABLE GRATE)
M1	977.32	6" HDPE (IN): 972.90 6" HDPE (OUT): 972.90	12" NYLOPLAST (LOCKABLE GRATE)
M2	977.35	6" HDPE (OUT): 974.75	12" NYLOPLAST (LOCKABLE GRATE)
N1	977.32	6" HDPE (IN): 974.15 6" HDPE (OUT): 974.15	12" NYLOPLAST
N2	977.35	6" HDPE (OUT): 975.35	12" NYLOPLAST
01	977.11	6" HDPE (OUT): 975.10	12" NYLOPLAST
P1	977.26	6" HDPE (IN): 973.78 6" HDPE (OUT): 973.78	STORM CLEANOUT
P2	977.25	6" HDPE (OUT): 975.35	STORM CLEANOUT
Q1	977.92	6" HDPE (OUT): 975.90	STORM CLEANOUT

		STORM STRUCT	URE TABLE
ID	RIM	INVERT	TYPE
R1	975.92	12" HDPE (IN): 972.87	4" - 16" CONCRETE HEADWALL
R2	975.96	10" HDPE (IN): 973.95 12" HDPE (OUT): 973.46	SINGLE CURB INLET
R3	976.31	6" HDPE (IN): 974.25 10" HDPE (OUT): 974.15	JUNCTION MANHOLE
R4	976.52	6" HDPE (IN): 974.40 6" HDPE (OUT): 974.40	12" NYLOPLAST (LOCKABLE GRAT
R5	976.97	6" HDPE (IN): 974.70 6" HDPE (OUT): 974.70	12" NYLOPLAST (LOCKABLE GRAT
R6	976.91	6" HDPE (OUT): 974.90	12" NYLOPLAST (LOCKABLE GRAT
\$1	976.28	15" HDPE (IN): 972.00 15" HDPE (OUT): 972.00	JUNCTION MANHOLE
\$2	976.79	15" HDPE (IN): 972.70 15" HDPE (OUT): 972.60	JUNCTION MANHOLE
\$3	977.45	15" HDPE (IN): 972.90 15" HDPE (OUT): 972.90	STORM CLEANOUT
\$4	977.45	15" HDPE (IN): 973.05 15" HDPE (OUT): 973.05	STORM CLEANOUT
\$5	977.45	15" HDPE (IN): 973.20 15" HDPE (OUT): 973.20	STORM CLEANOUT
\$6	977.48	12" HDPE (IN): 973.40 15" HDPE (OUT): 973.40	STORM CLEANOUT
S7	977.48	12" HDPE (IN): 973.50 12" HDPE (OUT): 973.50	STORM CLEANOUT
\$8	977.47	12" HDPE (IN): 973.70 12" HDPE (OUT): 973.70	STORM CLEANOUT
S 9	977.47	12" HDPE (IN): 973.85 12" HDPE (OUT): 973.85	STORM CLEANOUT
\$10	977.47	10" HDPE (IN): 974.00 12" HDPE (OUT): 974.00	STORM CLEANOUT
\$11	977.47	10" HDPE (IN): 974.25 10" HDPE (OUT): 974.25	STORM CLEANOUT
\$12	977.47	10" HDPE (IN): 974.40 10" HDPE (OUT): 974.40	STORM CLEANOUT
\$13	977.47	8" HDPE (IN): 974.60 10" HDPE (OUT): 974.60	STORM CLEANOUT
\$14	977.48	8" HDPE (IN): 974.80 8" HDPE (OUT): 974.80	STORM CLEANOUT
\$15	977.48	8" HDPE (IN): 974.90 8" HDPE (OUT): 974.90	STORM CLEANOUT
\$16	977.45	8" HDPE (IN): 975.10 8" HDPE (OUT): 975.10	STORM CLEANOUT
\$17	977.45	6" HDPE (IN): 975.30 8" HDPE (OUT): 975.30	STORM CLEANOUT
\$18	977.45	6" HDPE (OUT): 975.50	STORM CLEANOUT
T1	972.82	18" HDPE (IN): 966.80	JUNCTION MANHOLE
T2	972.73	18" HDPE (OUT): 968.00	OUTLET STRUCTURE

INLET	INVERT	OUTLET	INVERT	LENGTH (FT)	SLOPE (%)	SHAPE	DIAMETER (IN)	MATERIA
A2	968.60	A1	968.00	98	0.61%	CIRCULAR	24	HDPE
A3	969.00	A2	968.70	50	0.60%	CIRCULAR	24	HDPE
A4	970.00	A3	969.10	136	0.66%	CIRCULAR	18	HDPE
A5	971.20	A4	970.10	206	0.54%	CIRCULAR	18	HDPE
A6	974.10	A5	971.20	92	3.16%	CIRCULAR	8	HDPE
A7	974.50	A6	974.10	61	0.66%	CIRCULAR	8	HDPE
B1	971.10	A2	968.70	144	1.67%	CIRCULAR	12	HDPE
C1	972.00	E3	970.10	85	2.23%	CIRCULAR	10	HDPE
D2	971.05	D1	969.35	34	5.07%	CIRCULAR	12	HDPE
E2	968.50	E1	968.00	105	0.47%	CIRCULAR	18	HDPE
E3	970.00	E2	968.55	130	1.12%	CIRCULAR	18	HDPE
E4	970.95	E3	970.65	56	0.54%	CIRCULAR	12	HDPE
E5	971.40	E4	971.05	65	0.55%	CIRCULAR	10	HDPE
E6	972.00	E5	971.40	91	0.66%	CIRCULAR	10	HDPE
E7	973.50	E6	972.00	31	4.82%	CIRCULAR	6	HDPE
F2	972.27	F1	972.32	6	0.81%	CIRCULAR	15	HDPE
F3	972.19	F2	972.26	23	0.31%	CIRCULAR	15	HDPE
F3	972.19	F4	972.17	7	0.31%	CIRCULAR	15	HDPE
G1	970.70	A4	970.10	118	0.51%	CIRCULAR	12	HDPE
G2	970.95	G1	970.80	32	0.46%	CIRCULAR	10	HDPE
G3	971.14	G2	970.95	39	0.40%	CIRCULAR	10	HDPE
G4	971.25	G3	970.95	57	0.53%	CIRCULAR	10	HDPE
G5	972.75	G4	971.25	47	3.22%	CIRCULAR	8	HDPE
G6	974.15	G5	972.75	41	3.38%	CIRCULAR	8	HDPE
G7	975.00	G6	974.15	27	3.17%	CIRCULAR	6	HDPE
H1	970.65	E3	970.10	90	0.61%	CIRCULAR	12	HDPE
H2	971.35	H1	970.75	100	0.60%	CIRCULAR	12	HDPE
Н3	971.85	H2	971.45	<i>7</i> 1	0.56%	CIRCULAR	12	HDPE
H4	972.00	Н3	971.85	26	0.59%	CIRCULAR	8	HDPE
H5	973.10	H4	972.00	59	1.86%	CIRCULAR	8	HDPE
Н6	973.95	H5	973.10	47	1.82%	CIRCULAR	8	HDPE
H7	974.75	H6	973.95	41	1.93%	CIRCULAR	8	HDPE
H8	975.30	H7	974.75	27	2.05%	CIRCULAR	6	HDPE
12	972.95	l1	972.90	3	1.66%	CIRCULAR	12	HDPE
12	973.01	13	974.00	199	0.50%	CIRCULAR	12	HDPE
J1	972.00	G1	971.20	21	3.78%	CIRCULAR	10	HDPE
K1	971.65	H1	970.90	80	0.94%	CIRCULAR	6	HDPE
K2	971.03				2.04%			HDPE
		K1	971.65	17		CIRCULAR	6	
L1	974.90	A6	974.10	38	2.12%	CIRCULAR	6	HDPE
M1	972.90	G4	971.25	33	5.00%	CIRCULAR	6	HDPE
M2	974.75	M1	972.90	38	4.93%	CIRCULAR	6	HDPE
N1	974.15	H5	973.10	33	3.19%	CIRCULAR	6	HDPE
N2	975.35	N1	974.15	38	3.19%	CIRCULAR	6	HDPE
01	975.10	Н3	973.82	26	4.96%	CIRCULAR	6	HDPE
P1	973.78	H2	971.33	77	3.18%	CIRCULAR	6	HDPE
P2	975.35	P1	973.78	45	3.54%	CIRCULAR	6	HDPE
Q1	975.90	H1	973.60	46	5.02%	CIRCULAR	6	HDPE
R2	973.46	R1	972.87	2	24.70%	CIRCULAR	12	HDPE
R3	974.15	R2	973.95	24	0.83%	CIRCULAR	10	HDPE
R4	974.40	R3	974.25	31	0.48%	CIRCULAR	6	HDPE
R5	974.70	R4	974.40	56	0.54%	CIRCULAR	6	HDPE
R6	974.90	R5	974.70	43	0.47%	CIRCULAR	6	HDPE
\$1	972.00	A5	971.20	142	0.57%	CIRCULAR	15	HDPE
\$2	972.60	S1	972.00	89	0.67%	CIRCULAR	15	HDPE
\$2 \$3				39				
	972.90	\$2 \$2	972.70		0.52%	CIRCULAR	15	HDPE
\$4 55	973.05	\$3	972.90	30	0.50%	CIRCULAR	15	HDPE
\$5	973.20	\$4	973.05	30	0.50%	CIRCULAR	15	HDPE
\$6	973.40	\$5	973.20	35	0.57%	CIRCULAR	15	HDPE
S7	973.50	S6	973.40	18	0.55%	CIRCULAR	12	HDPE
S8	973.70	S7	973.50	35	0.57%	CIRCULAR	12	HDPE
S9	973.85	\$8	973.70	30	0.50%	CIRCULAR	12	HDPE
\$10	974.00	S9	973.85	30	0.50%	CIRCULAR	12	HDPE
\$11	974.25	S10	974.00	30	0.83%	CIRCULAR	10	HDPE
610	974.40	S11	974.25	30	0.50%	CIRCULAR	10	HDPE
\$12	974.60	\$12	974.40	30	0.67%	CIRCULAR	10	HDPE
\$12		\$13	974.60	35	0.57%	CIRCULAR	8	HDPE
	974.80		<u> </u>		0.55%	CIRCULAR	8	HDPE
\$13 \$14		S1 ⊿	974 80	18	U	~~L/\\		
\$13 \$14 \$15	974.90	\$14 \$15	974.80	18				
\$13 \$14 \$15 \$16	974.90 975.10	\$15	974.90	35	0.57%	CIRCULAR	8	HDPE
\$13 \$14 \$15	974.90							



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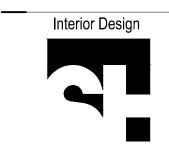
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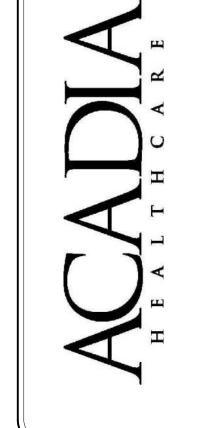
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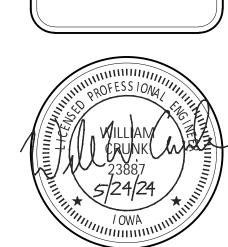








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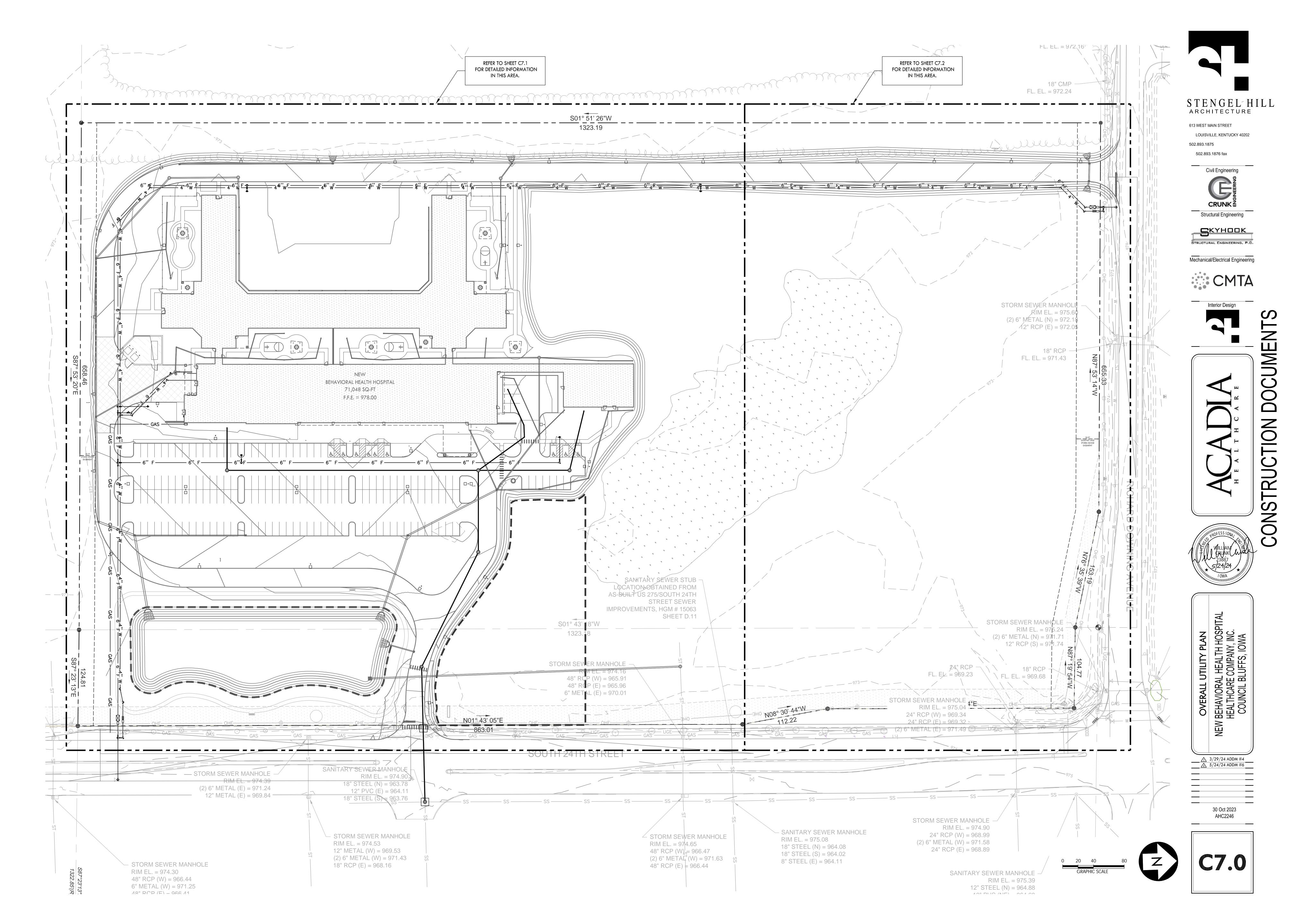
STORM PIPE & STRUCTURE TABLES

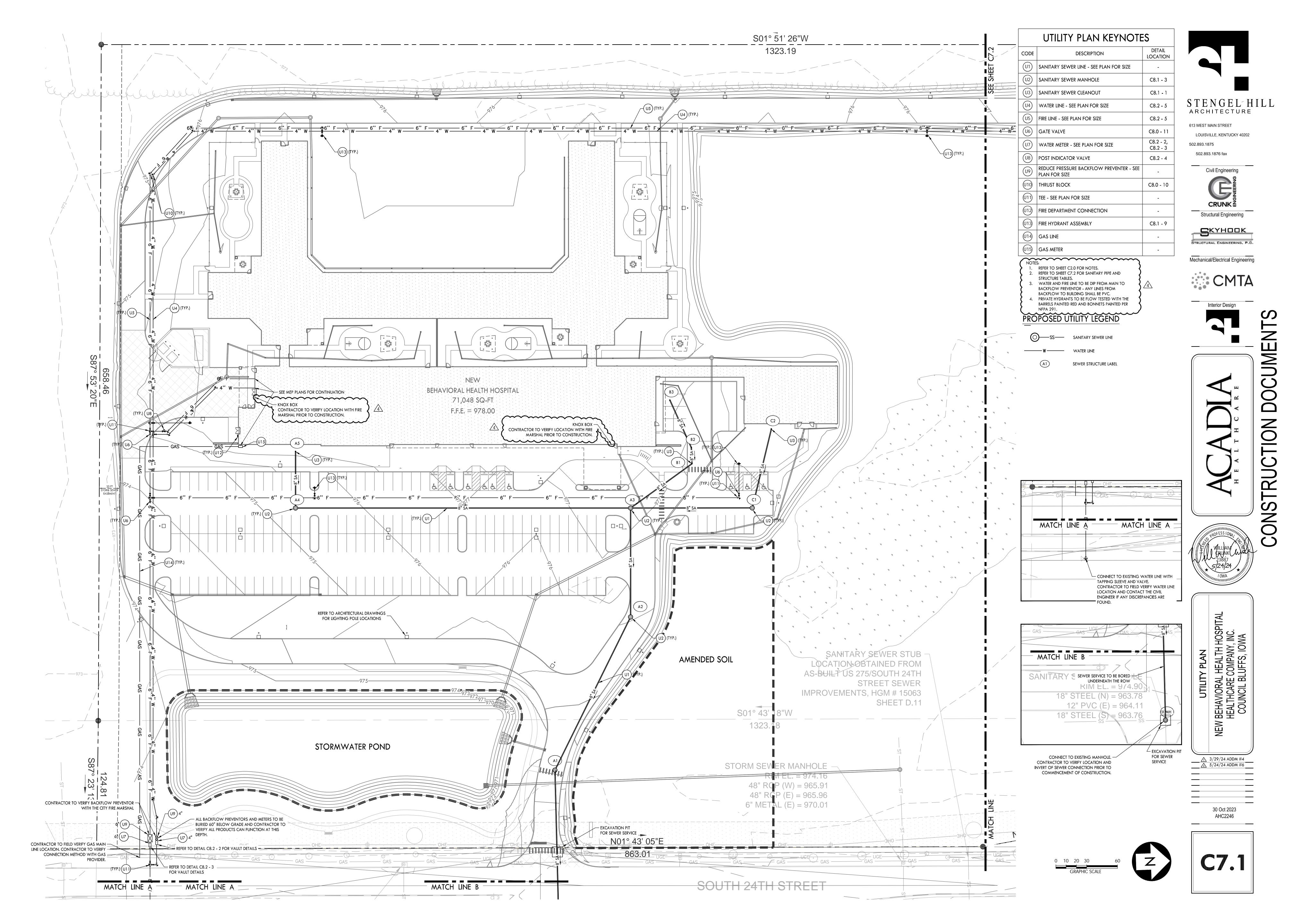
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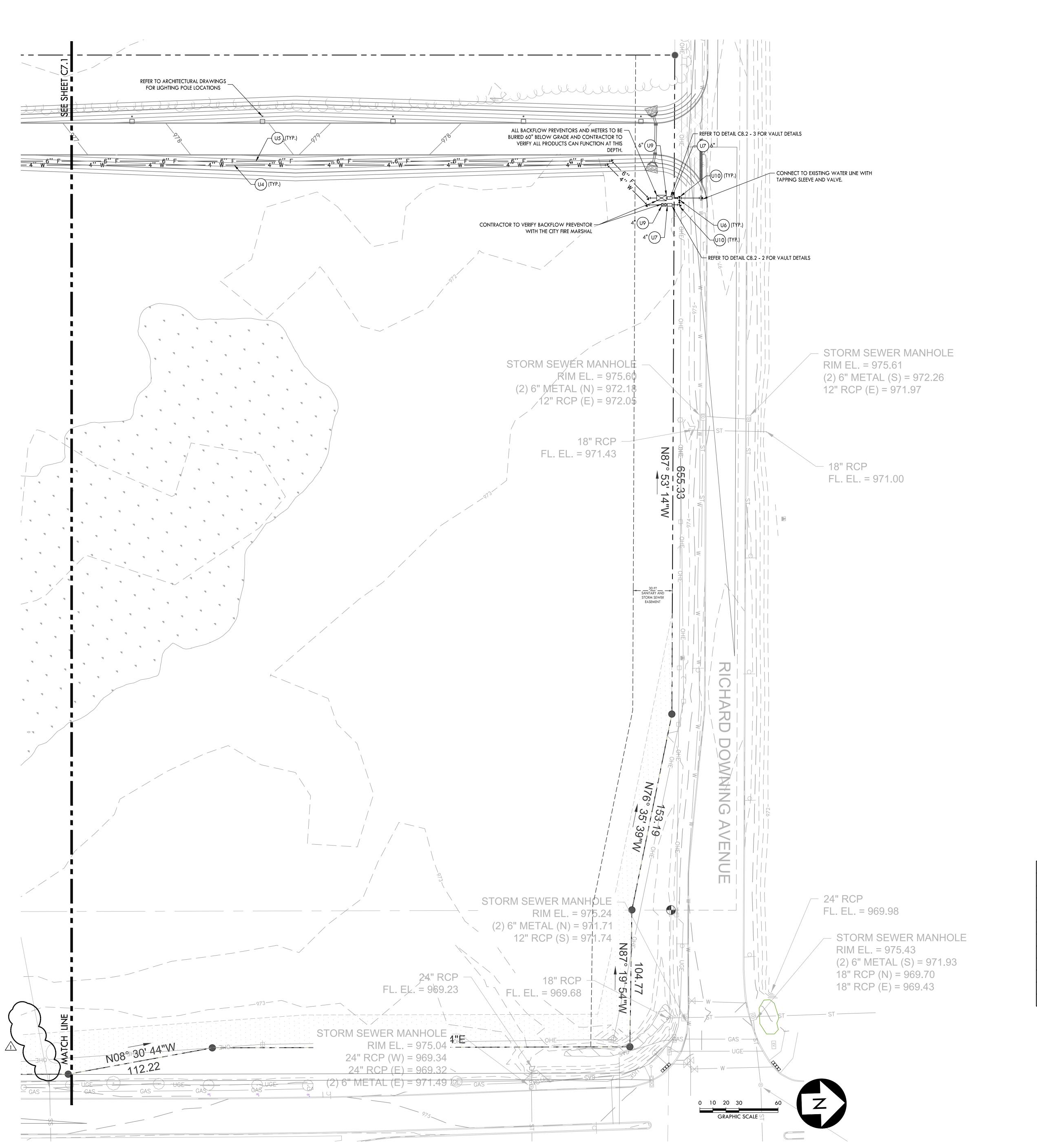
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COUNCIL BLUFFS, IOWA

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UTILITY PLAN KEYNOTES

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1. REFER TO SHEET C2.0 FOR NOTES.
2. REFER TO SHEET C7.2 FOR SANITARY PIPE AND STRUCTURE TABLES.
3. WATER AND FIRE LINE TO BE DIP FROM MAIN TO BACKFLOW PREVENTOR - ANY LINES FROM BACKFLOW TO BUILDING SHALL BE PVC

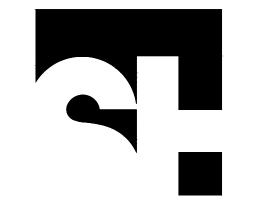
PROPOSED UTILITY LEGEND

—(O)——SS—————SANITARY SEWER LINE

j)	SEWER STRUCTURE LABEL

SANITARY SEWER STRUCTURE TABLE						
ID	RIM	INVERT	TYPE			
A1	974.85	965.65	SANITARY JUNCTION MANHOLE			
A2	975.95	967.00	SANITARY JUNCTION MANHOLE			
A3	977.22	967.60	SANITARY JUNCTION MANHOLE			
A4	975.34	970.20	SANITARY JUNCTION MANHOLE			
A5	977.34	971.00	SANITARY CLEANOUT			
B1	976.29	969.65	SANITARY CLEANOUT			
В2	976.39	970.20	SANITARY CLEANOUT			
В3	977.21	972.00	SANITARY CLEANOUT			
C1	976.68	968.30	SANITARY JUNCTION MANHOLE			
C2	977.53	972.00	SANITARY CLEANOUT			
MH 1	974.90	964.00	SANITARY JUNCTION MANHOLE			

SANITARY SEWER PIPE TABLE								
INLET	INVERT	OUTLET	INVERT	LENGTH (FT)	SLOPE (%)	DIAMETER (IN)	MATERIAL	
A1	965.65	EX MH 1	964.00	175	0.94%	8	PVC	
A2	967.00	A1	965.85	166	0.69%	8	PVC	
А3	967.60	A2	967.20	106	0.38%	8	PVC	
A4	970.20	А3	967.80	326	0.74%	8	PVC	
A5	971.00	A4	970.40	55	1.09%	8	PVC	
B1	969.65	А3	967.80	74	2.51%	8	PVC	
В2	970.20	B1	969.65	16	3.50%	8	PVC	
В3	972.00	В2	970.20	51	3.56%	8	PVC	
C1	968.30	А3	967.80	119	0.42%	8	PVC	
C2	972.00	C1	970.10	79	2.40%	8	PVC	



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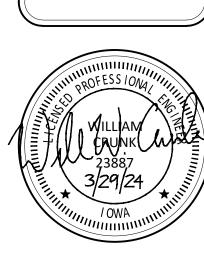
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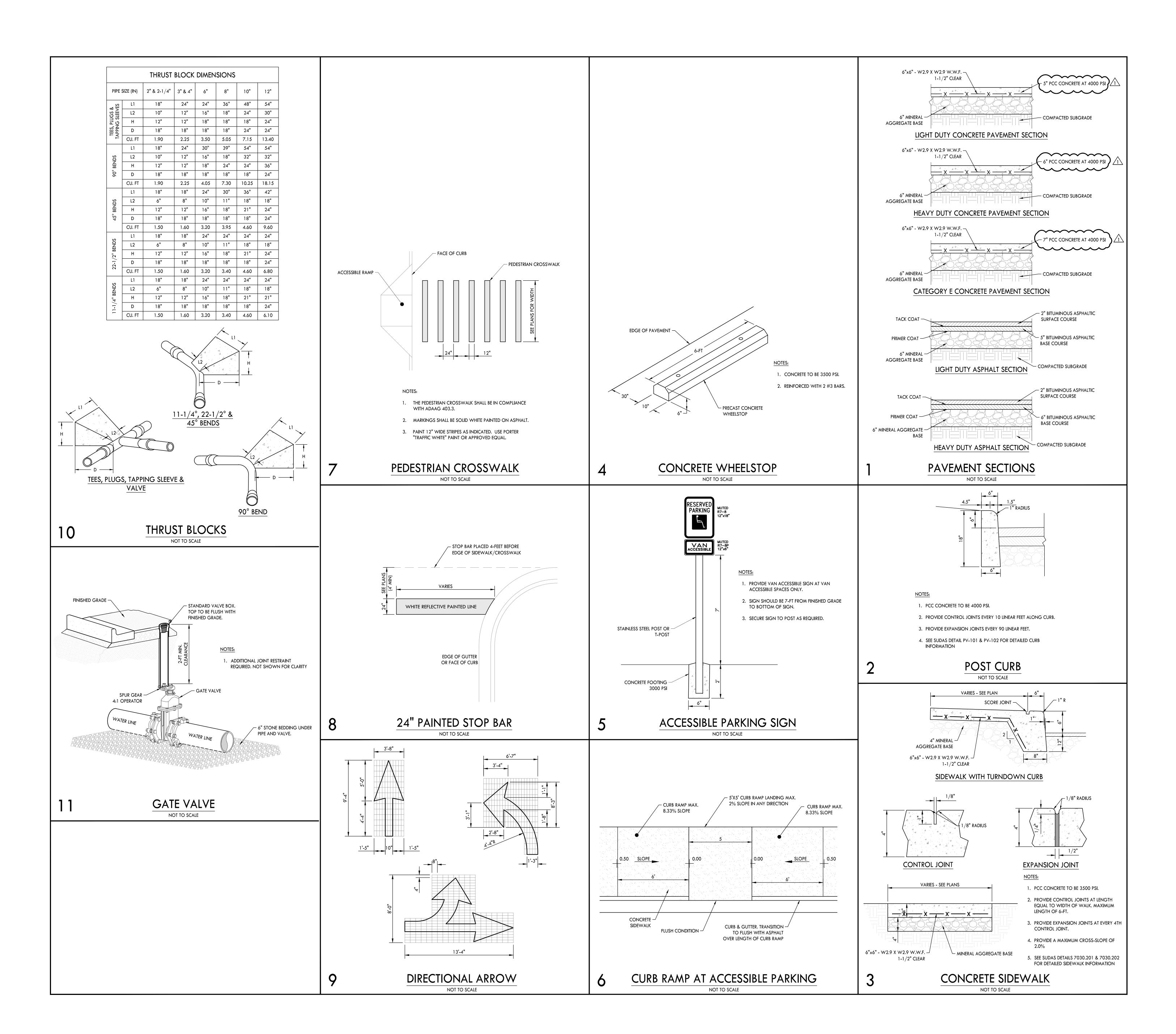
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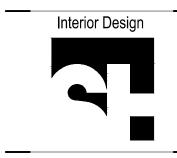
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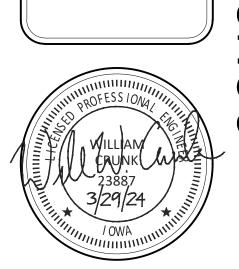
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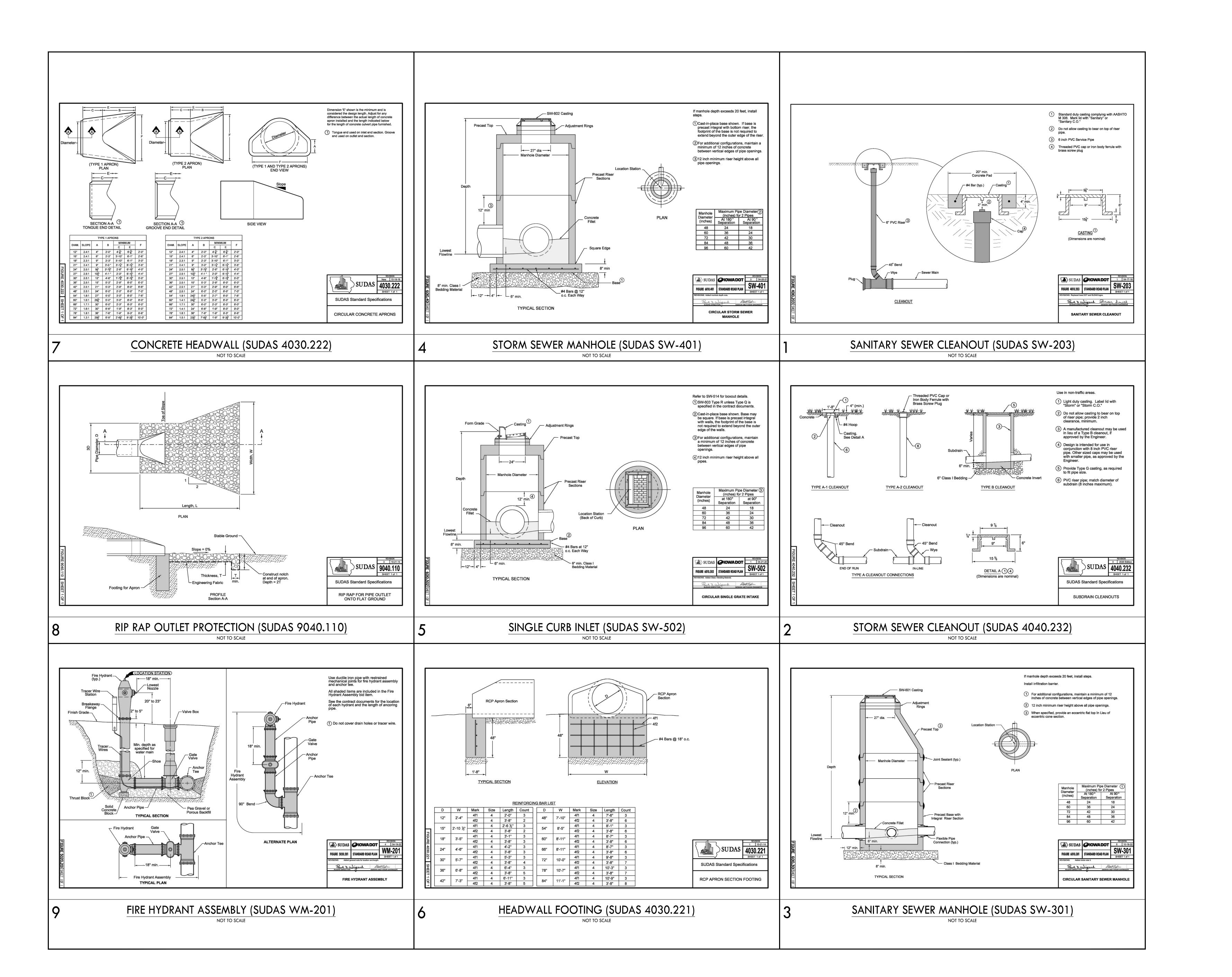


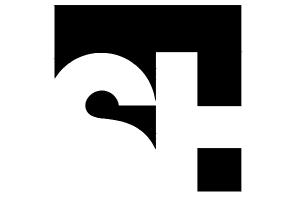
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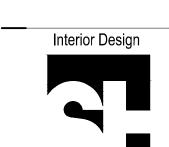
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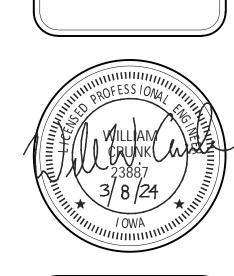
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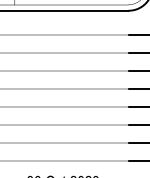




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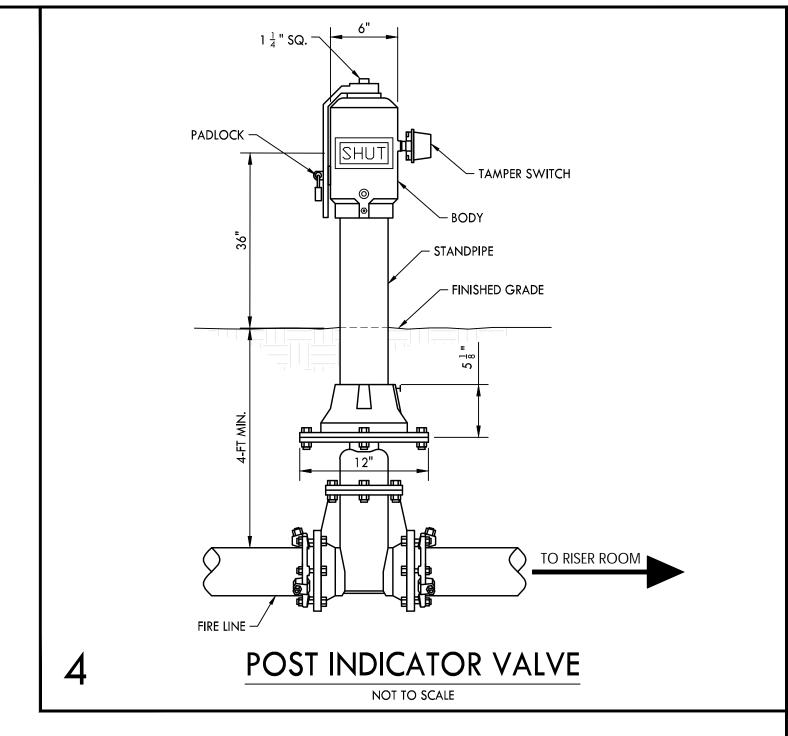


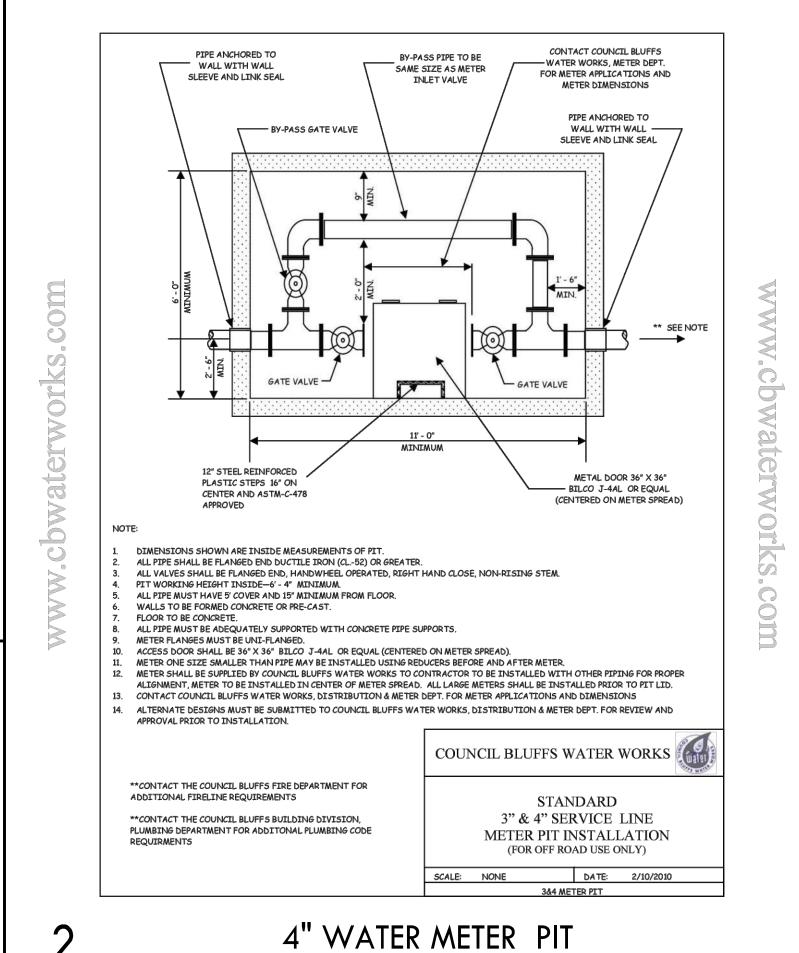
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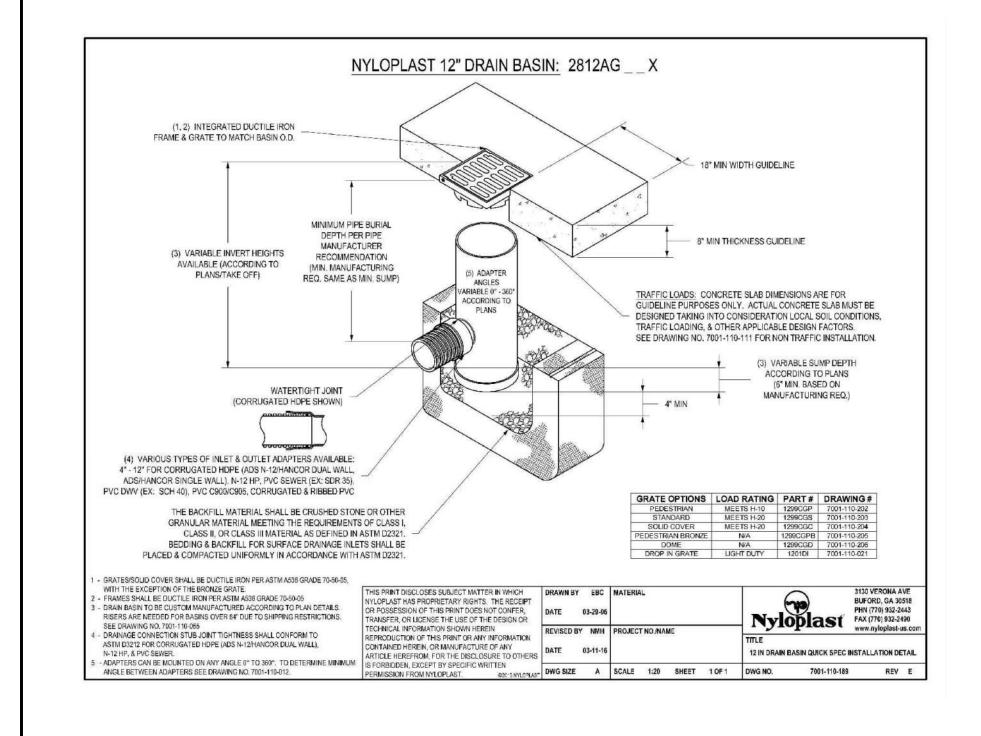


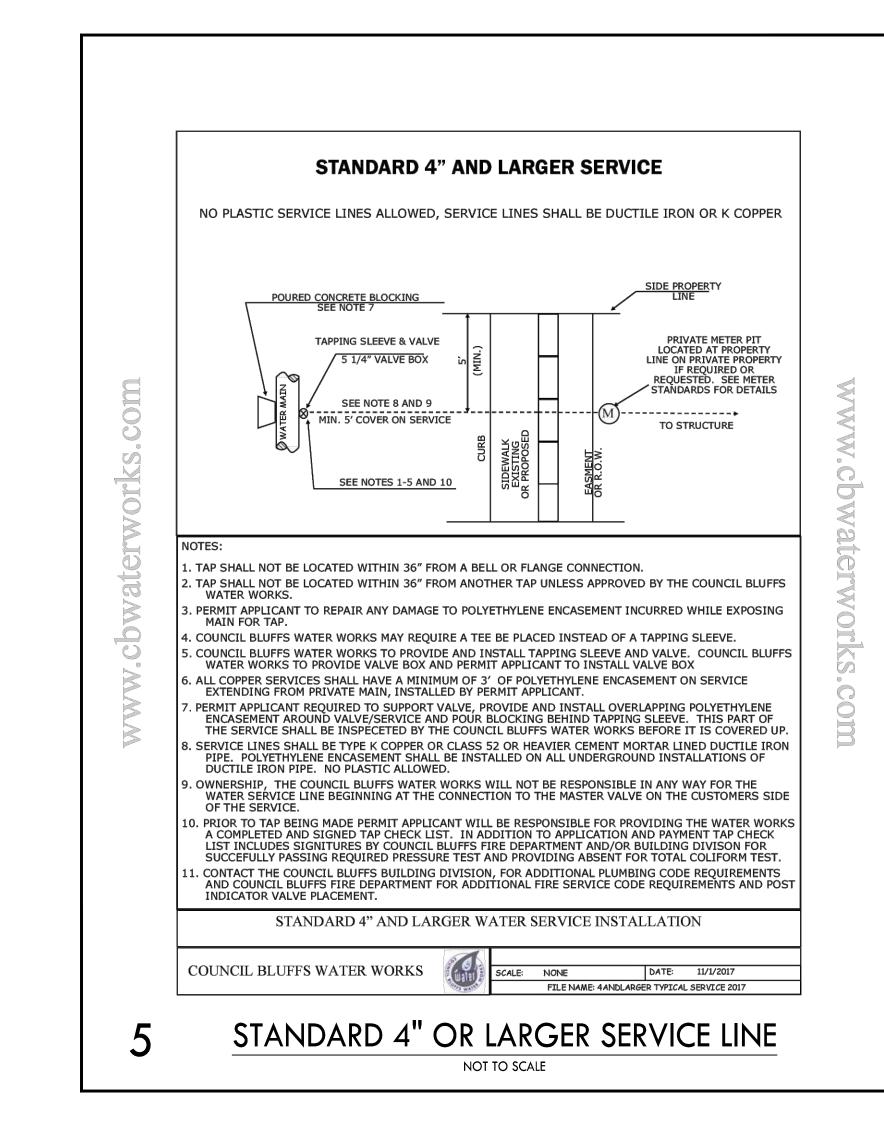
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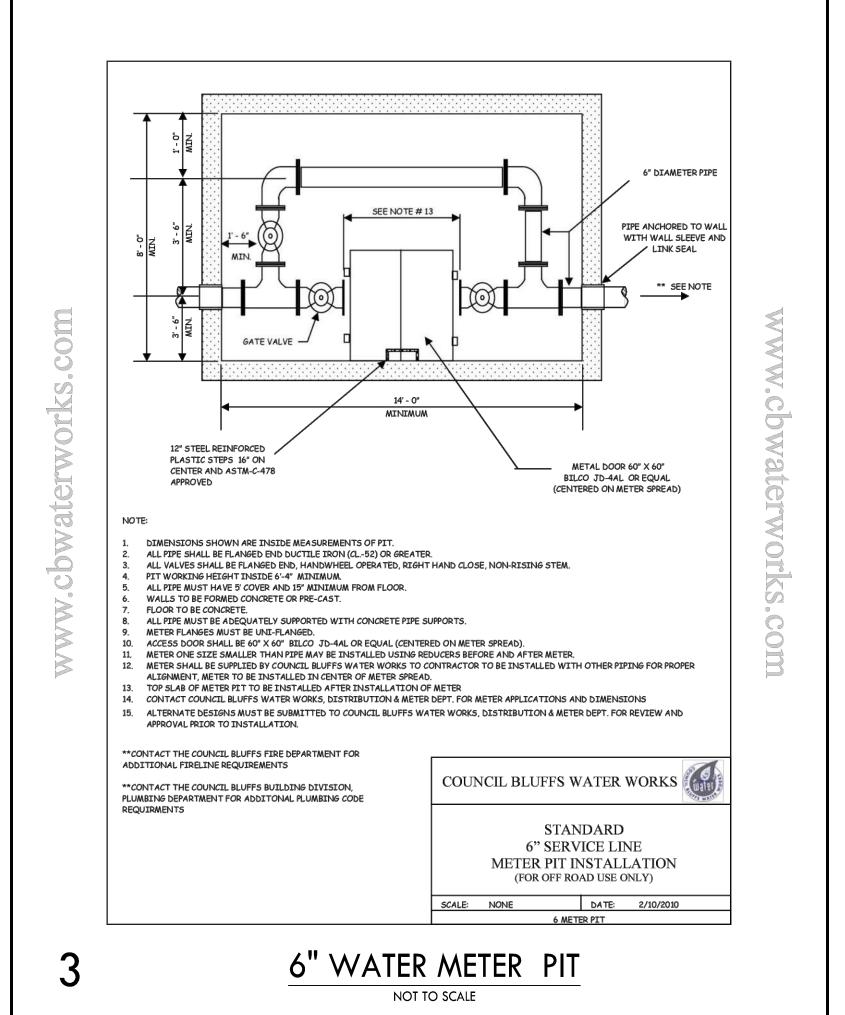
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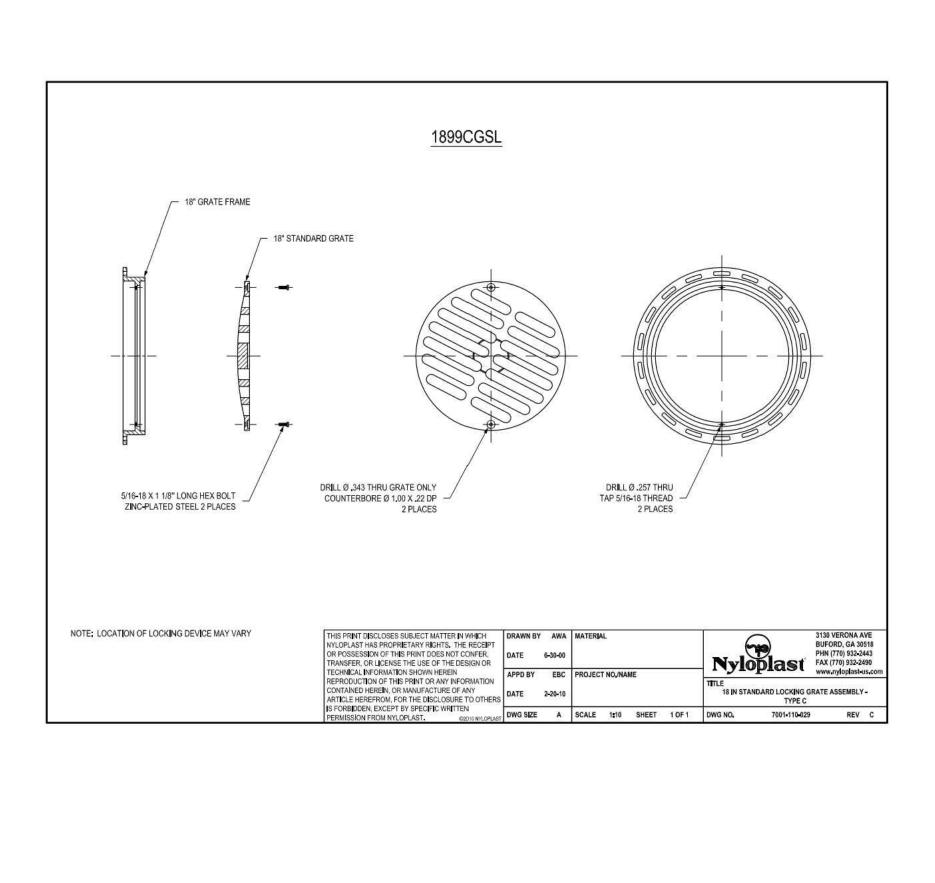








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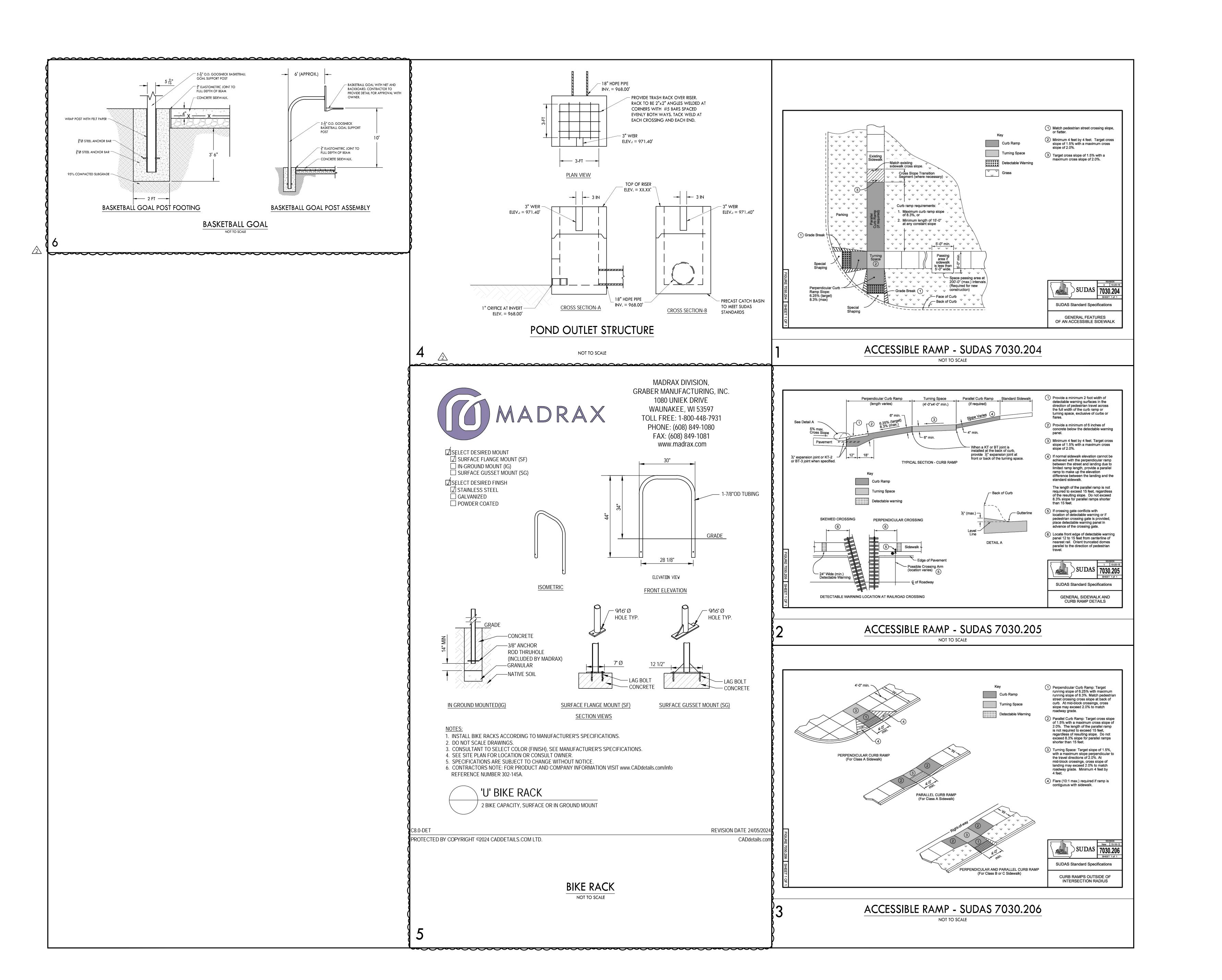
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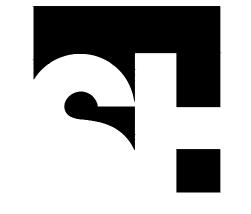
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<u>Skyhook</u>

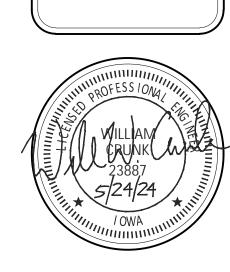
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