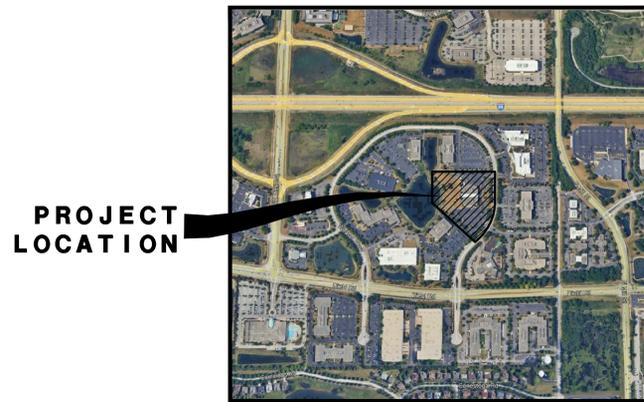


PRELIMINARY SITE DEVELOPMENT PLANS (FOR REVIEW PURPOSES ONLY)
 FOR
ORION STEM SCHOOL AT 4520 WEAVER PARKWAY
 WARRENVILLE, ILLINOIS
 WATERMAIN - SANITARY SEWER - STREET - STREET LIGHTING
 AND DRAINAGE IMPROVEMENTS

EXISTING	PROPOSED	DESCRIPTION
○	●	MANHOLE
□	■	CATCH BASIN
	●	INLET
	●	CLEANOUT
	▒	SLOPE INLET BOX
	— —	HEADWALL
	— —	END SECTION
— —	— —	STORM SEWER
— —	— —	SANITARY SEWER
— —	— —	WATERMAIN
⊗	⊙	VALVE & BOX
⊗	⊙	WATER VALVE IN VAULT
⊗	⊙	FIRE HYDRANT
---	ELEV	CONTOURS
(ELEV)	◆	ELEVATIONS
⊗	◆	STREET LIGHT
	▒	WATERMAIN PROTECTION
	▒	SILT FENCE INLET PROTECTOR
	— —	TEMPORARY STRAW BALE DITCH CHECK
	---	SILT FENCE DITCH CHECK
	▒	RIP-RAP
	→	OVERFLOW ROUTE



LOCATION MAP



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10	SOIL EROSION AND SEDIMENTATION CONTROL DETAILS
11	CONSTRUCTION DETAILS

BENCHMARK/CONTROL POINTS

ELEVATION REFERENCE MARK:

NGS MONUMENT 0167 (PID DK3215): LOCATED EAST OF THE "T" INTERSECTION WITH WASHINGTON STREET. THE STATION IS 70.2 FT. WEST OF A LIGHT POLE, 39.4 FT NORTHWEST OF AN ELECTRIC TRANSFORMER BOX, AND 23.0 FT. SOUTH OF THE CENTERLINE OF EASTBOUND WARRENVILLE ROAD. THE MONUMENT IS A 3.5 INCH BRASS DISK ON THE EAST END OF A RETAINING WALL ALONG THE SOUTH SIDE OF WARRENVILLE ROAD.
 ELEVATION: 759.89 NAVD88

CONTROL POINTS:

CP #105: SET '4' IN CONCRETE SIDEWALK APPROXIMATELY 38 FEET WEST OF THE CENTERLINE OF WEAVER PARKWAY AND 17 FEET SOUTH OF THE NORTH LINE OF THE SUBJECT SITE.
 NORTHING: 1871386.70
 EASTING: 1031643.78
 ELEVATION: 727.78

CP #108: SET '4' IN CONCRETE CURB APPROXIMATELY 19 FEET EAST OF THE CENTERLINE OF WEAVER PARKWAY AND APPROXIMATELY 64 FEET NORTHERLY OF THE WESTERN ENTRANCE DRIVE TO 4575 WEAVER PARKWAY.
 NORTHING: 1870886.570
 EASTING: 1031660.973
 ELEVATION: 723.89

FOR UNDERGROUND UTILITY LOCATIONS, CALL J.U.L.I.E. TOLL FREE TEL. 1-800-892-0123 or 811

DATE: _____
 RELEASED FOR PLAN REVIEW AND PERMIT PROCESSING ONLY.

IF USED FOR BIDDING PURPOSES, THOSE PARTIES CONCERNED SHALL BE ADVISED THAT REVISIONS MAY BE REQUIRED PRIOR TO PLAN APPROVAL.

NOT ISSUED FOR CONSTRUCTION UNTIL APPROVED BY THE CITY OF WARRENVILLE AND PERMITTED AS REQUIRED.

PROFESSIONAL ENGINEER'S CERTIFICATION

STATE OF ILLINOIS) SS.
 COUNTY OF DU PAGE)

I, KIMBERLY M. MORGART, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS TECHNICAL SUBMISSION WAS PREPARED ON BEHALF OF W ESTATE LLC, BY CEMCON, LTD. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 11TH DAY OF FEBRUARY, A.D., 2025.

Kimberly M. Morgart



ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 062-058001
 MY LICENSE EXPIRES ON NOVEMBER 30, 2025

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184-002937
 EXPIRES APRIL 30, 2027

NOTE: UNLESS THIS DOCUMENT BEARS THE ORIGINAL SIGNATURE AND IMPRESSED SEAL OF THE DESIGN PROFESSIONAL ENGINEER, IT IS NOT A VALID TECHNICAL SUBMISSION.

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 NAPERVILLE, IL 60564
 (630) 803-5768



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R E V I S I O N S					
NO.	DATE	SHEETS	NO.	DATE	SHEETS

JOB NO. 904.503
 COMPLETION DATE :
 FEBRUARY 14, 2025
 SHEET 1 OF 11

ORION STEM SCHOOL AT 4520 WEAVER PARKWAY - PRELIMINARY - 904.503 - AS SUBMITTED: 02-14-25/JGC

CONSTRUCTION SPECIFICATIONS – GENERAL NOTES

GENERAL

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF WARRENVILLE STANDARDS AND WITH THE CURRENT EDITION AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", APPLICABLE WHEN REFERENCED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHFUL WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EACH OF THE UTILITY COMPANIES BEFORE ANY WORK IS STARTED. ALL UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION.
- IF THE ENGINEER IS RETAINED FOR CONSTRUCTION STAKING SERVICES, THE ENGINEER AND THE CITY OF WARRENVILLE PUBLIC WORKS WILL BE GIVEN SEVENTY-TWO (72) HOURS NOTICE FOR ANY STAKING THAT IS TO BE DONE. IF ENGINEER IS CONTACTED BY OWNER OR CONTRACTOR FOR CONSTRUCTION STAKING SERVICES, EACH OF THE VARIOUS ITEMS OF WORK COVERED BY THIS CONTRACT WILL BE STAKED ONCE. ADDITIONAL STAKING REQUIRED DUE TO CONTRACTOR NEGLIGENCE SHALL BE PAID FOR BY THE CONTRACTOR AT THE CURRENT HOURLY RATE.
- THE CONTRACTOR SHALL INFORM WARRENVILLE BEFORE WORK COMMENCES ON EACH CATEGORY OF CONSTRUCTION, I.E. WATERMAIN, SANITARY, STREET AND DRAINAGE IMPROVEMENT. A FORTY EIGHT (48) HOUR NOTICE SHALL BE GIVEN FOR ANY ITEM THAT REQUIRE FINAL TESTING AND INSPECTION SUCH AS WATERMANS OR SANITARY SEWERS.
- THE CONTRACTOR RESPONSIBLE FOR WATERMAIN CONSTRUCTION, SANITARY SEWER CONSTRUCTION AND DRAINAGE IMPROVEMENTS (UNDERGROUND WORK) SHALL DISPOSE OF ALL SURPLUS MATERIALS ON THE SITE AS DIRECTED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE PAID AND SAID WORK SHALL BE INCIDENTAL TO THE OTHER ITEMS OF CONSTRUCTION.
- AFTER CONSTRUCTION STAKING IS PERFORMED, BUT PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CALL THE ATTENTION OF THE OWNER'S REPRESENTATIVE TO ANY DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES WHICH ARE ESTABLISHED BY THE OWNER, AND SHALL NOT PROCEED WITH THE WORK UNTIL ANY LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE OWNER'S REPRESENTATIVE.
- THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE TO PLACE ON GRADE AND COORDINATE WITH OTHER CONTRACTORS ALL UNDERGROUND STRUCTURE FRAMES SUCH AS CATCH BASINS, INLETS, MANHOLES, HYDRANTS, BUFFALO BOXES, VALVES, ETC. NO ADDITIONAL COMPENSATION WILL BE PAID AND SAID ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF CONSTRUCTION.
- CONTRACTORS SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, CLEAN PAVEMENTS ON A DAILY BASIS.
- CONTRACTOR SHALL NOTIFY THE ILLINOIS DEPARTMENT OF TRANSPORTATION PRIOR TO PERFORMING WORK WITHIN THE ILLINOIS ROUTE 59 R.O.W.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS (INCLUDING UTILITY LOCATIONS) PRIOR TO THE INSTALLATION OR FABRICATION OF ANY MATERIALS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER
- IN THE EVENT OF A CONFLICT, CONTRADICTION OR DISCREPANCY, CITY STANDARDS AND CODES SHALL GOVERN.

TRAFFIC CONTROL AND PROTECTION

- ALL WORK CONDUCTED WITHIN PUBLIC RIGHT-OF-WAYS SHALL BE GOVERNED BY THE FOLLOWING SPECIFICATION FOR TRAFFIC CONTROL. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARTICLES OF THE CITY OF WARRENVILLE AND ILLINOIS DEPARTMENT OF TRANSPORTATION, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" CURRENT EDITION OF "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND SPECIAL DETAILS OF ILLINOIS HIGHWAY STANDARDS LISTED HEREIN.
- SPECIAL ATTENTION IS CALLED TO ARTICLES 107.09 AND 107.14 OF THE STANDARD SPECIFICATIONS AND THE FOLLOWING HIGHWAY STANDARDS, DETAILS AND SUPPLEMENTAL SPECIFICATIONS AND MIMEOGRAPHED SPECIAL PROVISIONS CONTAINED HEREIN, RELATING TO TRAFFIC CONTROL.
- THE CONTRACTOR SHALL CONTACT THE CITY OF WARRENVILLE AND IDOT AT LEAST SEVENTY-TWO (72) HOURS BEFORE WORK COMMENCES. IDOT TRAFFIC CONTROL SUPERVISOR: KALPANA.KANNAN-HOSUDURGA@ILLINOIS.GOV
- STANDARDS
70101
701602
701701
701901
- AT THE PRECONSTRUCTION MEETING THE CONTRACTOR SHALL FURNISH THE NAME OF THE INDIVIDUAL IN HIS DIRECT EMPLOY WHO IS TO BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE TRAFFIC CONTROL FOR THIS PROJECT. IF THE ACTUAL INSTALLATION AND MAINTENANCE ARE TO BE ACCOMPLISHED BY A SUBCONTRACTOR, CONSENT SHALL BE REQUESTED OF THE ENGINEER AT THE TIME OF THE PRECONSTRUCTION MEETING IN ACCORDANCE WITH ARTICLE 108.01 OF THE STANDARD SPECIFICATIONS. THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY REQUIREMENT FOR A RESPONSIBLE INDIVIDUAL IN HIS DIRECT EMPLOY TO SUPERVISE THIS WORK. THE CONTRACTOR WILL PROVIDE THE NAME OF ITS REPRESENTATIVE WHO WILL BE RESPONSIBLE FOR THE ADMINISTRATION OF THE TRAFFIC CONTROL PLAN.
- THIS ITEM OF WORK SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING ALL TRAFFIC CONTROL DEVICES USED FOR THE PURPOSE OF REGULATING, WARNING OR DIRECTING TRAFFIC DURING THE CONSTRUCTION OR MAINTENANCE OF THIS IMPROVEMENT.
- TRAFFIC CONTROL AND PROTECTION SHALL BE PROVIDED AS CALLED FOR IN THE PLANS. PROVISIONS, APPLICABLE HIGHWAY STANDARDS, APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL AND PROTECTION (CONT'D)

- THE FOLLOWING TRAFFIC CONTROL REQUIREMENTS ARE OF SPECIAL IMPORTANCE TO CONFORMANCE WITH THESE REQUIREMENTS, HOWEVER, SHALL NOT RELIEVE THE CONTRACTOR FROM CONFORMING TO ALL OTHER APPLICABLE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE GOVERNING FACTOR IN THE EXECUTION AND STAGING OF WORK FOR THIS PROJECT IS TO PROVIDE THE MOTORING PUBLIC WITH THE SAFEST POSSIBLE TRAVEL CONDITIONS ALONG THE ROADWAY THROUGH THIS CONSTRUCTION ZONE. THE CONTRACTOR SHALL SO ARRANGE HIS OPERATION AS TO KEEP THE CLOSING OF ANY LANE OF THE ROADWAY TO A MINIMUM.
- ALL TRAFFIC CONTROL DEVICES USED ON THIS PROJECT SHALL CONFORM TO THE PLANS, SPECIAL PROVISIONS, TRAFFIC CONTROL STANDARDS, "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL DEVICES" AND THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". NO MODIFICATION OF THESE REQUIREMENTS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- TRAFFIC CONTROL DEVICES INCLUDE: SIGNS AND THEIR SUPPORTS, SIGNALS, PAVEMENT MARKINGS, BARRICADES WITH SAND BAGS, CHANNELIZING DEVICES, WARNING LIGHTS, ARROWBOARDS, FLAGGERS, OR ANY OTHER DEVICE USED FOR THE PURPOSE OF REGULATING, WARNING, OR GUIDING TRAFFIC THROUGH THE CONSTRUCTION ZONE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION, INSTALLATION, AND ARRANGEMENT OF ALL TRAFFIC CONTROL DEVICES. SPECIAL ATTENTION SHALL BE GIVEN TO ADVANCE WARNING SIGNS DURING CONSTRUCTION OPERATIONS IN ORDER TO KEEP LANE ASSIGNMENT CONSISTENT WITH BARRICADE PLACEMENT AT ALL TIMES. THE CONTRACTOR SHALL COVER ALL TRAFFIC CONTROL DEVICES WHICH ARE IN CONTACT WITH DETOUR OR LANE ASSIGNMENT PATTERNS DURING THE TRANSITION FROM ONE CONSTRUCTION STAGE TO ANOTHER.
- CONSTRUCTION SIGNS REFERRING TO DAYTIME LANE CLOSURE DURING WORKING HOURS SHALL BE REMOVED OR COVERED DURING NON-WORKING HOURS.
- THE CONTRACTOR SHALL COORDINATE ALL TRAFFIC CONTROL WORK ON THIS PROJECT WITH ADJOINING OR OVERLAPPING PROJECTS, INCLUDING BARRICADE PLACEMENT NECESSARY TO PROVIDE A UNIFORM TRAFFIC DETOUR PATTERN. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES WHICH WERE FURNISHED, INSTALLED AND MAINTAINED BY HIM UNDER THIS CONTRACT, AND SUCH DEVICES SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL SPECIFIC AUTHORIZATION FOR RELOCATION OR REMOVAL IS RECEIVED FROM THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL DEVICES INSTALLED BY HIM ARE OPERATIONAL 24 HOURS A DAY, INCLUDING SUNDAYS AND HOLIDAYS.
- THE CONTRACTOR SHALL PROVIDE A MANNED TELEPHONE ON A CONTINUOUS 24-HOUR-A-DAY BASIS TO RECEIVE NOTIFICATION OF ANY DEFICIENCIES REGARDING TRAFFIC CONTROL AND PROTECTION AND SHALL DISPATCH WORKERS, MATERIALS AND EQUIPMENT TO CORRECT ANY SUCH DEFICIENCIES. THE CONTRACTOR SHALL RESPOND TO ANY CALL FROM THE CITY OF WARRENVILLE COMMUNITY DEVELOPMENT AT (630) 393-9050 CONCERNING ANY REQUEST FOR IMPROVING OR CORRECTING TRAFFIC CONTROL DEVICES AND BEGIN MAKING THE REQUESTED REPAIRS WITHIN TWO HOURS FROM THE TIME OF NOTIFICATIONS.
- WHEN TRAVELING IN LANES OPEN TO PUBLIC TRAFFIC, THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC. THESE VEHICLES SHALL ENTER OR LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO, OR INTERFERE WITH, TRAFFIC AND SHALL NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES SHALL NOT PARK WITHIN THE RIGHT- OF-WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE ENGINEER.
- ANY DROP OFF GREATER THAN THREE INCHES, BUT LESS THAN SIX INCHES WITHIN CONTIGUOUS PAVEMENT EDGES SHALL BE PROTECTED BY TYPE I OR II BARRICADES EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 100 FOOT CENTER TO CENTER SPACING. IF THE DROP OFF WITHIN EIGHT FEET OF THE PAVEMENT EDGE EXCEEDS SIX INCHES, THE BARRICADES MENTIONED ABOVE SHALL BE PLACED AT 50 FOOT CENTER TO CENTER SPACING. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 2299. VERTICAL PANELS OR OTHER DELINEATING DEVICES MAY BE SUBSTITUTED FOR TYPE I OR II BARRICADES WITH THE APPROVAL OF THE ENGINEER.
- CHECK BARRICADES SHALL BE PLACED IN WORK AREAS PERPENDICULAR TO TRAFFIC EVERY 100 FEET, ONE (1) PER LANE AND SHOULDER, TO PREVENT MOTORISTS FROM USING WORK AREAS AS A TRAVELED WAY. ADDITIONAL CHECK BARRICADES SHALL BE PLACED IN ADVANCE OF ANY HAZARD IN THE WORK AREAS WHICH WOULD ENDANGER A MOTORIST. CHECK BARRICADES SHALL BE TYPE I OR II AND EQUIPPED WITH A FLASHING LIGHT.
- PLACEMENT OF ALL SIGNS AND BARRICADES SHALL PROCEED IN THE DIRECTION OF FLOW OF TRAFFIC. REMOVAL OF ALL SIGNS AND BARRICADES SHALL START AT THE END OF THE CONSTRUCTION AREAS AND PROCEED TOWARD ONCOMING TRAFFIC UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- DELAYS TO THE CONTRACTOR CAUSED BY COMPLYING WITH THESE REQUIREMENTS WILL BE CONSIDERED INCIDENTAL TO THE ITEM FOR TRAFFIC CONTROL AND PROTECTION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THIS ITEM OR WORK WILL BE MEASURED ON A LUMP SUM BASIS FOR FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING THE TRAFFIC CONTROL DEVICES REQUIRED IN THE PLANS AND THESE SPECIAL PROVISIONS. PAYMENT FOR TRAFFIC CONTROL AND PROTECTION SHALL BE CONSIDERED AS INCLUDED INCLUDED IN THE WORK BEING DONE OR AS SPECIFIED IN THE PLANS.
- ADJACENT ROADWAYS MUST REMAIN OPEN TO TWO-WAY TRAFFIC AT ALL TIMES UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
- IF NECESSARY, ANY TEMPORARY LANE CLOSURES ON ADJACENT ROADWAYS MUST BE COORDINATED WITH AND APPROVED BY THE GOVERNING BODY FOR THE ROADWAY.

TRAFFIC CONTROL AND PROTECTION (CONT'D)

- DURING THE PERIOD OF TIME WHEN THE PUBLIC SIDEWALK IS CLOSED, "SIDEWALK CLOSED" SIGNS MUST BE PLACED WITH POSITIVE DIRECTION TO PEDESTRIANS. A SIGN SHOULD BE PLACED AT THE EAST & WEST EXTENTS OF THE WORK ZONE TO DIRECT PEOPLE TO USE THE SIDEWALK ALONG THE NORTH SIDE OF THE STREET.
- ALL CONTRACTOR AND SUB-CONTRACTOR VEHICLES MUST BE PARKED OFF OF PUBLIC STREETS UNLESS AUTHORIZED BY THE CITY OF WARRENVILLE ENGINEER.

SEDIMENT AND EROSION CONTROL DURING CONSTRUCTION

STANDARDS:
THE FOLLOWING PUBLICATIONS WILL BE USED AS A GUIDE FOR THE IMPLEMENTATION OF SOIL EROSION AND SEDIMENT CONTROL:
ILLINOIS URBAN MANUAL STANDARDS AND SPECIFICATIONS (CURRENT EDITION).
CITY OF WARRENVILLE STANDARD SPECIFICATIONS AND CITY OF WARRENVILLE STANDARD DETAILS.
DUPAGE COUNTYWIDE STORMWATER AND FLOODPLAIN ORDINANCE

- REQUIREMENTS:**
- SEDIMENT AND EROSION CONTROLS SPECIFIED ON THE PLANS WILL BE FUNCTIONAL BEFORE ANY EARTHWORK OPERATIONS COMMENCE OR BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.
 - STOCKPILES OF EARTH MATERIAL WILL BE PLACED AT LOCATIONS AS INDICATED ON THE PLANS. A SILT FENCE WILL BE PLACED AROUND THE BASE OF THE STOCKPILE WHERE INDICATED. STOCKPILES OF SOIL SHALL NOT BE LOCATED IN SPECIAL MANAGEMENT AREAS.
 - SHOULD THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF TEMPORARILY INCREASE DURING CONSTRUCTION, THEN ADDITIONAL MEASURES TO PROTECT ADJACENT PROPERTIES AND SPECIAL MANAGEMENT AREAS DOWNSTREAM SHALL BE UNDERTAKEN.
 - STORM SEWER INLETS SHALL BE PROTECTED BY STRAW BALE SEDIMENT TRAPS OR FILTER CONTROL DEVICES FOLLOWING INSTALLATION.
 - THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS NOT AT FINAL GRADE THAT WILL REMAIN UNDISTURBED FOR MORE THAN 7 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.
 - WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING WILL BE FILTERED.
 - VEHICULAR ACCESS TO THE SITE SHALL BE RESTRICTED TO A CONSTRUCTION ENTRANCE. SAID CONSTRUCTION ENTRANCE SHALL BE INSTALLED BEFORE ANY CONSTRUCTION BEGINS.
 - THE DESIGNATED CONSTRUCTION ACCESS ROAD WILL BE MAINTAINED WITH CONNECTION TO ADJACENT PUBLIC ROADWAY. THIS ACCESS ROAD WILL BE UTILIZED AS A VEHICLE WASH DOWN AREA TO PREVENT A DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ADJACENT ROADWAYS WILL BE SWEEP OR CLEANED OF SOIL, MUD, DEBRIS OR EXTRANEOUS MATERIALS AS NECESSARY BEFORE THE END OF EACH WORKDAY.
 - ALL CONTROL MEASURES NECESSARY WILL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGH THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT EROSION CONTROL IS OPERATIONAL.
 - IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR SUCH STOCKPILE.

MAINTENANCE:

THE EXCAVATING CONTRACTOR SHALL BE RESPONSIBLE FOR THE INITIAL CONSTRUCTION OF THE PAVEMENT EDGES SHOWN IN THE PLAN, AND SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SAID FACILITIES UNTIL THE COMPLETION OF FINAL GRADING OPERATIONS AFTER CONSTRUCTION OF THE IMPROVEMENTS. THE CONTRACTOR SHALL REQUEST IN WRITING A RELEASE FROM THE OWNER FOR MAINTENANCE OF THE SITE UPON COMPLETION OF THE WORK. THE OWNER SHALL ISSUE SAID RELEASE WITHIN 15 DAYS OF THE CONTRACTOR'S REQUEST PROVIDING THE CONTRACTOR HAS COMPLETED ALL WORK REQUIRED UNDER THE CONTRACT. THE CONTRACTOR'S EROSION CONTROL MAINTENANCE RESPONSIBILITIES SHALL BE EXCLUSIVE OF THE CONSTRUCTION WARRANTY AND/OR GUARANTEE PERIOD.

INSPECTION BY OWNER:

QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCH OR GREATER OR EQUIVALENT SNOWFALL.

- 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 PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
- BASED ON THE RESULTS OF THE INSPECTION, THE PLAN AND EROSION CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.
- A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION CONTROL PLAN, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION.

SEDIMENT AND EROSION CONTROL DURING CONSTRUCTION (CONT'D)

- THE PERMITTEE SHALL COMPLETE AND SUBMIT WITHIN FIVE (5) DAYS AN "INCIDENT OF NON-COMPLIANCE" (ION) REPORT FOR ANY VIOLATION OF THE EROSION CONTROL PLAN OBSERVED DURING AN INSPECTION CONDUCTED, INCLUDING THOSE NOT REQUIRED BY THE PLAN. SUBMISSION SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NON-COMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NON-COMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NON-COMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NON-COMPLIANCE.

CONTRACTORS:

- ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE NPDES PERMIT MUST SIGN A COPY OF THE CERTIFICATION STATEMENT IN PARAGRAPH B BELOW, EXCEPT FOR OWNERS THAT ARE ACTING AS CONTRACTOR.
- CERTIFICATION STATEMENT:
"I, CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONWIDE POLLUTANT DISCHARGE PREVENTION SYSTEM (NPDES) PERMIT (LR10000) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH THE ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION".
THE CERTIFICATION MUST INCLUDE THE NAME AND TITLE OF THE PERSON PROVIDING THE SIGNATURE; THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE CONTRACTING FIRM, THE ADDRESS (OR OTHER IDENTIFYING DESCRIPTION) OF THE SITE; AND THE DATE THE CERTIFICATION IS MADE.

EARTHWORK, GRADING AND PAVING

- WORK UNDER THIS SECTION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 - CLEARING AND REMOVAL OF ALL UNDESIRABLE TREES AND OTHER VEGETATIVE GROWTH WITHIN THE CONSTRUCTION AREA. TREE REMOVAL SHALL BE DESIGNATED BY THE OWNER AND SHALL BE KEPT TO A MINIMUM.
 - STRIPPING OF TOPSOIL FROM ALL STREET, DRIVEWAY, PARKING LOT, RIGHT-OF-WAY, BUILDING PAD AND OTHER DESIGNATED STRUCTURAL AREAS.
 - STOCKPILING OF TOPSOIL AT LOCATIONS AS DIRECTED BY THE OWNER. TOPSOIL STOCKPILED FOR FUTURE USE SHALL BE RELATIVELY FREE FROM LARGE ROOTS, STICKS, WEEDS, BRUSH, STONES LARGER THAN ONE (1) INCH DIAMETER, OR OTHER LITTER AND WASTE PRODUCTS INCLUDING EXTRANEOUS MATERIALS NOT CONDUCTIVE TO PLANT GROWTH. TOPSOIL SHALL BE STOCKPILED IN SEQUENCE TO ELIMINATE ANY REHANDLING OR DOUBLE MOVEMENTS BY THE CONTRACTOR. FAILURE TO PROPERLY SEQUENCE THE STOCKPILING OPERATIONS SHALL NOT CONSTITUTE A CLAIM FOR ADDITIONAL COMPENSATION. NO MATERIAL SHALL BE STOCKPILED IN FRONT YARDS, OVERLAND DRAINAGE SWALES (FLOOD ROUTING AREAS), IN PROPOSED UTILITY LOCATIONS, IN UTILITY EASEMENTS OR IN THE RIGHT-OF-WAY.
 - REMOVAL OF UNSUITABLE MATERIALS AS SPECIFIED FROM ROADWAY, DRIVEWAY/PARKING, BUILDING PAD AND OTHER DESIGNATED AREAS.
 - CLAY CUT AND CLAY FILL WITH COMPACTION WITHIN ROADWAY, DRIVEWAY/PARKING, BUILDING PAD AND OTHER DESIGNATED AREAS.
 - EXCAVATION AND GRADING OF THE OPEN SPACE, AND/OR YARD AREAS PER PLAN INCLUDING CONSTRUCTION OF BERMS, ETC.
 - GRADING AND COMPACTION OF STRUCTURAL MATERIAL TO THE DESIGN SUBGRADE ELEVATIONS AS REQUIRED BY THE STANDARDS AND DETAILS ON THE CONSTRUCTION PLANS. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT PAVEMENT AND/OR TOPSOIL REPLACEMENT THICKNESS MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS.
 - IF REQUIRED, BORROW PIT EXCAVATION OF STRUCTURAL MATERIAL AND REFILL OF PIT WITH NON-STRUCTURAL MATERIAL.
 - PLACEMENT AND COMPACTION OF NON-STRUCTURAL FILLS.
 - MOVEMENT AND COMPACTION OF SPOIL MATERIAL FROM THE CONSTRUCTION OF UNDERGROUND UTILITIES.
 - BACKFILLING OF CURBS AND/OR PAVEMENT AND SIDEWALK AFTER INSTALLATION OF SAME BY THE PAVING CONTRACTOR.
 - FINAL SHAPING AND TRIMMING TO THE LINES AND GRADES SHOWN IN THESE PLANS; AND TOPSOIL PLACEMENT TO DESIGN FINISHED GRADE ELEVATIONS.
 - SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES. THE CONTRACTOR SHALL EXAMINE THE DRAINAGE PATTERNS SHOWN ON THE PLANS AND MAKE CERTAIN THAT ALL GUTTER FLAGS AND PAVEMENTS ARE PITCHED PROPERLY TO ACHIEVE THIS DRAINAGE PATTERN.
- MATERIALS TESTING, IF REQUIRED BY THE MUNICIPALITY, SHALL BE PROVIDED BY THE CONTRACTOR, THIS ITEM WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE VARIOUS ITEMS OF WORK.
- DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER ACCEPTABLE METHOD. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY ADDITIONAL COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THEREOF.

EARTHWORK, GRADING AND PAVING (CONT'D)

- IT SHALL BE THE RESPONSIBILITY OF EACH RESPECTIVE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY THE SOILS ENGINEER OR HIS REPRESENTATIVE. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER. NO UNDERCUT SHALL BE PERFORMED WITHOUT AUTHORIZATION FROM OWNER AND ASSIGNMENT OF AN EWO NUMBER.
- THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE.
- THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADE. A MINIMUM OF SIX INCHES (6") OF TOPSOIL IS TO BE PLACED BEFORE FINISH GRADE ELEVATIONS ARE ACHIEVED.
- THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS SO THAT THE COMPACTED THICKNESS IS APPROXIMATELY SIX INCHES (6"); IF COMPACTION EQUIPMENT DEMONSTRATES THE ABILITY TO COMPACT GREATER THICKNESSES, THEN A GREATER THICKNESS MAY BE SPECIFIED. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY.
- EMBANKMENT MATERIAL WITHIN ROADWAY, DRIVEWAY, PARKING LOT AND OTHER STRUCTURAL CLAY FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF NINETY-THREE PERCENT (93%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-1557 (MODIFIED PROCTOR METHOD) OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER. EMBANKMENT MATERIAL FOR BUILDING PADS SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 (MODIFIED PROCTOR METHOD) OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER.
- THE SURFACE VEGETATION, TOPSOIL AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHOULD BE STRIPPED FROM ALL AREAS TO RECEIVE STRUCTURAL FILL. IF THE UNDERLYING SUBGRADE SOILS RUT DEEPER THAN ONE INCH UNDER THE CONSTRUCTION EQUIPMENT OR IF THE MOISTURE CONTENT EXCEEDS THAT NEEDED FOR PROPER COMPACTION, THE SOIL SHALL BE SCARIFIED, DRIED AND RECOMPACTED TO THE REQUIRED SPECIFICATIONS (SEE SECTION 301.03 OF THE IDOT SPECIFICATIONS).
- COMPLETED GRADING (FINISHED FINE GRADE) FOR PROPOSED PAVEMENT SUBGRADE AREAS, BUILDING PADS, AND YARD/OPEN SPACE AREAS SHALL BE WITHIN A TOLERANCE OF PLUS OR MINUS ONE-TENTH OF A FOOT (0.1') OF DESIGN SUBGRADE ELEVATIONS.
- THE SUBGRADE FOR PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AS WELL AS THE CITY OF WARRENVILLE PERSONNEL AND ANY UNSTABLE AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AND SOILS ENGINEER. ANY UNDERCUT AND REPLACE NECESSARY WILL BE MEASURED FOR PAVEMENT AT THE CONTRACT UNIT PRICE.

**DUPAGE COUNTY DIVISION OF TRANSPORTATION
GENERAL NOTES AND SPECIFICATIONS**

- ALL CONSTRUCTION WITHIN THE COUNTY'S RIGHT-OF-WAY SHALL BE PERFORMED ACCORDING TO IDOT'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" (LATEST EDITION).
- DAILY LANE CLOSURES ARE PERMITTED BETWEEN 9:00 A.M. AND 4:00 P.M. ONLY. TRAFFIC CONTROL SHALL CONFORM TO IDOT'S HIGHWAY STANDARDS AND THE FHWA'S "MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES" AND IDOT'S SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS SHALL INCLUDE USE OF ADVANCE WARNING LANE CLOSURE SIGNAGE, AN ARROW BOARD AND TYPE I BARRICADES WITH SANDBAGS.
- LANE CLOSURES ARE NOT PERMITTED ON COUNTY ROADWAYS DURING SNOWFALL OR WITHIN 2 HOURS PRIOR TO PREDICTED SNOWFALL OR PRECIPITATION CONDITIONS BETWEEN NOVEMBER 15 AND APRIL 15 FOR MAINTENANCE OF THE ROADWAY PAVEMENT BY COUNTY HIGHWAY MAINTENANCE DEPARTMENT STAFF AND EQUIPMENT.
- DISTURBED AREAS OF THE RIGHT OF WAY SHALL BE DRESSED WITH A MINIMUM OF 6" TOPSOIL AND CLASS 2A SALT TOLERANT SEED (WITH EROSION CONTROL BLANKET) OR SOD (SALT TOLERANT AND STAKED IN PLACE).
- EROSION CONTROL MEASURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE DUPAGE COUNTY STORMWATER AND FLOODPLAIN ORDINANCE SPECIFICATIONS AT ALL TIMES.
- EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN THE COUNTY'S RIGHT-OF-WAY AT ANY TIME WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE COUNTY ENGINEER, OR HIS DULY AUTHORIZED ASSIGN.
- PAVEMENT, CURB/GUTTER AND STORM STRUCTURES WITHIN THE COUNTY'S RIGHT-OF-WAY SHALL BE MAINTAINED FREE OF MUD/DEBRIS AT ALL TIMES AND SHALL BE CLEANED AS IS REQUIRED AND/OR AS DIRECTED BY DUPAGE COUNTY.
- CONTACT DUPAGE COUNTY (630/407-6900) A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION, TO ARRANGE FOR INSPECTIONS OF AND AT THE COMPLETION OF THE DESCRIBED WORK WITHIN THE COUNTY'S RIGHT-OF-WAY.
- TRENCH BACKFILL FOR NON-PAVED AREAS SHALL BE INSTALLED WITHIN THE COUNTY'S RIGHT-OF-WAY PER DUPAGE COUNTY'S STANDARD.
- TRENCH BACKFILL BELOW EXISTING OR PROPOSED PAVEMENT, CURB/GUTTER AND/OR SIDEWALK SHALL BE INSTALLED WITHIN THE COUNTY'S RIGHT-OF-WAY PER DUPAGE COUNTY'S STANDARD.
- THERE SHALL BE NO DECORATIVE STONE, LANDSCAPING OR TREES PLANTED WITHIN THE COUNTY RIGHT OF WAY.

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NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

CONSTRUCTION SPECIFICATIONS – GENERAL NOTES

ORION STEM SCHOOL AT 4520 WEAVER PARKWAY

FILE NAME: GENNOTES	DSGN. BY: KMM	JOB NO.: 904.503	F.LD. BK./PG.: ---	SHEET NO.
DIR: 904503	DRN. BY: JGC	DATE: FEBRUARY 14, 2025	SCALE: 1" = NONE	02 of 11

CONSTRUCTION SPECIFICATIONS – GENERAL NOTES

CITY OF WARRENVILLE STANDARD SPECIFICATIONS WATER MAIN, SANITARY SEWER AND STORM SEWER

WATER MAIN

1. ALL OPEN CUT WATER MAIN SHALL BE POLYVINYL CHLORIDE PLASTIC (PVC) PRESSURE PIPE PER AWWA SPECIFICATION C-900, CLASS 150 (DR-18). THE ABOVE PIPE AND FITTINGS SHALL BE FURNISHED WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM F477. TRENCH BACKFILL SHALL BE UTILIZED TO TWELVE INCHES (12") ABOVE THE TOP OF THE PVC WATER MAIN.
2. ALL WATER MAIN INSTALLED BY HORIZONTAL DIRECTIONAL DRILLING SHALL BE PVC PER AWWA SPECIFICATION C-900 WITH CERTALOK JOINTS. ASSEMBLY AND INSTALLATION OF PIPE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL MATERIAL SPECIFICATIONS SHALL BE SUBMITTED TO THE CITY AND APPROVED PRIOR TO INSTALLATION.
3. ONE ¼" DIAMETER STAINLESS STEEL WIRES OR A SOLOSHOT 845 EHS TRACER WIRE AS MANUFACTURED BY COPPERHEAD OR APPROVED EQUAL SHALL BE INSTALLED DIRECTLY OVER THE CENTER OF THE WATER MAIN IN THE TRENCH WITH A MAXIMUM SEPARATION OF FOUR INCHES (4") ABOVE THE PIPE. THE TRACER WIRE WILL BE INSTALLED WITH THE WATER MAIN AND ATTACHED TO ALL IN-LINE VALVES, HYDRANT VALVES, HYDRANTS AND SERVICE LINES TO INSURE SIGNAL CONDUCTIVITY ALONG ALL PORTIONS OF THE NEW MAIN.
4. FITTINGS SHALL BE DUCTILE IRON, 250 PSI PRESSURE RATING, CEMENT MORTAR LINED WITH RESTRAINED PUSH-ON JOINT OR MECHANICAL JOINT WITH MEGALUG RETAINER GLANDS, OR APPROVED EQUAL.
5. WATER MAIN BOLTS SHALL BE STAINLESS STEEL ASTM 304.
6. RESTRAINED JOINTS – ALL FITTINGS SHALL HAVE RESTRAINED JOINTS. ALL WATER MAIN PIPING IN CASING SHALL HAVE RESTRAINED JOINTS. RESTRAINED JOINTS SHALL BE PUSH JOINT WITH A FIELD LOCK GASKET OR A MECHANICAL JOINT WITH MEGALUG RETAINER GLANDS, OR APPROVED EQUAL. ALL BENDS, TEES, AND DEAD END PIPING MUST BE RESTRAINED A MINIMUM OF 24" IN BOTH DIRECTIONS OF THE FITTING. THRUST CEMENT BLOCKING OF ALL FITTINGS, HYDRANTS, AND DEAD END PIPING IS REQUIRED.
7. PRESSURE CONNECTIONS – PRESSURE TAPPING SLEEVES SHALL BE ALL STAINLESS STEEL.
8. ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES INSTALLED IN A PRECAST CONCRETE VAULT. VALVES SHALL BE MUELLER, WATEROUS, OR CLOW MANUFACTURE. ALL BOLTS SHALL BE STAINLESS STEEL.
9. VALVE VAULTS SHALL BE PRE-CAST CONCRETE UNITS. FOR WATER MAINS 8-INCH DIAMETER OR LESS, THE VAULT SHALL BE 48-INCH INSIDE DIAMETER. FOR WATER MAINS 10-INCH DIAMETER AND GREATER, THE VAULT SHALL BE 60-INCH INSIDE DIAMETER.
10. FRAMES AND LIDS SHALL CONFORM TO NEENAH FOUNDRY R-1713 OR APPROVED EQUAL AND THE WORD "WATER" SHALL BE CAST IN THE COVER.
11. CASING – SPACERS ALL JOINTS WITHIN THE CASING SHALL BE RESTRAINED. SPACERS SHALL BE INSTALLED ON ALL PIPE IN CASING. SPACERS SHALL BE BOLT ON STYLE WITH A SHELL MADE IN TWO SECTIONS OF HEAVY T-304 STAINLESS STEEL. CASING SHALL BE FILLED WITH PEA GRAVEL OR SAND AND SEALED AT BOTH ENDS.
12. ALL DUCTILE IRON PIPES AND FITTINGS ARE REQUIRED TO BE ENCASED IN 8-MIL POLYETHYLENE CONFORMING TO AWWA C-105.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND SUPPLY CERTIFICATION FOR ALL MATERIALS. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE CITY BEFORE INSTALLATION.
14. DEPTH OF BURY FOR WATER MAIN TO BE 5'-6" (MINIMUM).
15. INSTALLATION SHALL CONFORM TO "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION.

FIRE HYDRANTS

1. HYDRANT SHALL BE FM APPROVED AND UL LISTED, SHALL CONFORM TO AWWA C-502, AND SHALL HAVE BREAKAWAY SAFETY FLANGES.
2. HYDRANTS SHALL BE MUELLER CENTURION, WATEROUS WB67-250, OR CLOW MEDALLION.
3. ALL BOLTS SHALL BE STAINLESS STEEL FROM AND INCLUDING THE BREAKAWAY FLANGE TO THE INLET ON THE HYDRANT SHOE.
4. ALL HYDRANTS SHALL HAVE A BRONZE CROSS ARM / TOP PLATE.
5. CONNECTING PIPING SHALL BE SIX-INCH (6") DIAMETER SHALL BE POLYVINYL CHLORIDE PLASTIC (PVC) PRESSURE PIPE PER AWWA SPECIFICATION C-900, CLASS 150 (DR-18). THE ABOVE PIPE AND FITTINGS SHALL BE FURNISHED WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM F477.
6. MAIN VALVE OPENING SHALL BE FIVE AND ONE QUARTER INCH (5-1/4") IN DIAMETER, COMPRESSION TYPE, WITH A BRASS DRAIN VALVE.
7. NOZZLES SHALL HAVE THREADED MALE ENDS CONFORMING TO "AMERICAN NATIONAL STANDARD FIRE HOSE CONNECTION SCREW THREADS. THE HYDRANT SHALL HAVE TWO NOZZLES OF 63 MM WHICH ARE 2-1/2" AND ONE PUMPER NOZZLE OF 114 MM (4-1/2") WITH CAPS AND CHAINS.
8. HYDRANTS SHALL HAVE A MINIMUM WORKING PRESSURE OF 175 PSI.
9. HYDRANTS SHALL OPEN IN A COUNTER-CLOCKWISE DIRECTION, AS INDICATED BY AN ARROW AND THE WORD "OPEN" ON THE DOME.
10. HYDRANTS SHALL BE PAINTED A HIGH VISIBILITY RED, FACTORY APPLIED PAINT. HYDRANTS SHALL HAVE A SIX-INCH (6") AUXILIARY VALVE WITH BOX ON THE INLET PIPING. VALVE SHALL MEET WATER MAIN PIPING SPECIFICATIONS FOR THE CITY OF WARRENVILLE. AUXILIARY VALVE ATTACHED TO HYDRANT SHALL HAVE STAINLESS STEEL BOLTS AT THE FLANGE INLET.
11. CONNECTION OF SIX-INCH (6") PIPING SHALL BE RESTRAINED JOINTS FROM THE TEE AT THE WATER MAIN TO THE INLET OF THE HYDRANT WITH FIELD LOCK GASKETS FOR PUSH JOINT AND MEGALUG RETAINER GLANDS, OR APPROVED EQUAL FOR MECHANICAL JOINT.

WATER SERVICES

1. FOR WATER SERVICES 2-INCH DIAMETER AND LESS SHALL BE TYPE "K" COPPER ONLY WITH A MINIMUM SIZE OF ONE-INCH (1") DIAMETER.
2. BRASS SHALL BE MUELLER OR FORD. ALL BRASS IS PREFERRED TO HAVE COMPRESSION FITTINGS. COMPRESSION FITTINGS MUST BE OF THE STAINLESS FULL CIRCLE RING RETAINAGE. NO SET SCREWS ARE ALLOWED. FLAIR FITTING ARE ACCEPTABLE.
3. B-BOXES SHALL BE OF THE ARCH PATTERN DESIGN WITH A TELESCOPING ONE AND ONE QUARTER-INCH (1-1/4") IRON PIPE UPPER SECTION, PENTAGON NUT ACCESS, ENLARGED BASE FOR 1-1/2" ROUNDWAYS AND LARGER, MANUFACTURED IN THE USA.
4. TAPPING SADDLE AT MINIMUM SHALL BE EPOXY COATED DUCTILE WITH TWO STAINLESS STEEL BANDS. ALL STAINLESS STEEL SADDLES ARE ACCEPTABLE. MANUFACTURED IN USA.
5. ALL REPAIR CLAMPS SHALL BE FULL CIRCLE STAINLESS STEEL.
6. DEPTH OF BURY FOR WATER SERVICES TO BE 5'-6" (MINIMUM) TO 6'-6" (MAXIMUM).

SANITARY SEWER

1. ALL SANITARY SEWER AND SANITARY SEWER SERVICE PIPE SHALL BE SDR 26 ASTM D-2241 AND FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM D-3139 OR EQUIVALENT. NOTE: THIS IS A PRESSURE RATED PIPE.
2. SANITARY SEWER SERVICES SHALL BE A MINIMUM OF 6-INCHES IN DIAMETER.
3. ALL SANITARY SEWERS SHALL BE AIR AND MANDREL TESTED, AND TELEVISED, INCLUDING PRIVATE COMMERCIAL LINES BETWEEN INSPECTION MANHOLE AND THE PUBLIC SANITARY SEWER. COPIES OF DVDS AND REPORTS SHALL BE PROVIDED TO THE CITY.
4. SANITARY SEWER MANHOLES SHALL HAVE OPENINGS FOR THE PIPE CONNECTIONS CAST INTO THE WALL OF THE STRUCTURE. RUBBER GASKETED COUPLING (BOOT) WITH STAINLESS STEEL BANDS / RETAINERS SHALL BE PER ASTM C-923.
5. WHEN CONNECTING TO AN EXISTING MANHOLE, THE HOLE MUST BE CORED AND A RUBBER GASKETED COUPLING (BOOT) WITH STAINLESS STEEL BANDS / RETAINERS SHALL BE PER ASTM C-923. THE BENCH SHALL BE REMOVED AND REPOURED, IF NECESSARY. RUBBER BOOTS/SEALS MUST BE USED WHERE PIPES ENTER MANHOLES. THE INTERNAL CONNECTION SHALL BE DRESSED UP WITH NON-SHRINK HYDRAULIC CEMENT, HYDRAULIC CEMENT, MORTAR, AND CONCRETE MUST BE OF THE STRENGTH AND WATER-TIGHTNESS QUALITY AS SPECIFIED IN THE ASTM STANDARDS.
6. WHEN CONNECTING A NEW SANITARY SERVICE TO AN EXISTING SANITARY SEWER MAIN WITHOUT AN EXISTING WYE, CONTACT PUBLIC WORKS TO DETERMINE WHICH ONE OF THE TWO FOLLOWING METHODS SHALL BE USED:
A. A SECTION OF THE MAIN SHALL BE CUT OUT TO INSTALL A NEW WYE. CONNECTION BETWEEN THE EXISTING SANITARY SEWER AND THE NEW WYE SHALL BE MADE WITH NON-SHEAR MISSION COUPLINGS WITH TWO STAINLESS STEEL BANDS TO A POINT WHERE THE COUPLING CANNOT SHIFT.
B. CORE THE EXISTING MAIN AND MAKE THE CONNECTION WITH AN INSERTA TEE CONNECTION OR AN APPROVED EQUAL.
7. SANITARY MANHOLES SHALL BE PRE-CAST CONCRETE UNITS. FOR SANITARY SEWERS 18-INCH DIAMETER OR LESS, THE MANHOLE SHALL BE 48-INCH INSIDE DIAMETER. FOR SANITARY SEWERS 21-INCH DIAMETER AND LARGER, THE MANHOLE SHALL BE 60-INCH INSIDE DIAMETER.
8. FRAMES AND LIDS SHALL CONFORM TO NEENAH FOUNDRY R-1713 OR APPROVED EQUAL OR OTHERWISE NOTED IN PLANS AND THE WORD "SANITARY" SHALL BE CAST IN THE COVER. THE LID SHALL BE A SELF-SEALING WORD LID WITH WATERTIGHT GASKET AND CONCEALED PICKHOLE. ANY MANHOLE WITHIN A FLOODPLAIN SHALL HAVE A WATERTIGHT, BOLTDOWN FRAME AND LID, NEENAH R-1916-F1 OR APPROVED EQUAL.
9. ALL COMMERCIAL BUILDINGS SHALL HAVE AN INSPECTION MANHOLE.
10. MANHOLE SECTIONS AND ADJUSTING RINGS SHALL BE SEALED WITH BUTYL ROPE.
11. SANITARY MANHOLES SHALL HAVE A POURED CONCRETE BENCH.
12. RUNGS / STEPS SHALL BE INSTALLED IN MANHOLES UNLESS SPECIFICALLY PROHIBITED.
13. EXTERNAL CHIMNEY SEALS AND MACWRAP WILL BE REQUIRED WITH ALL SANITARY MANHOLES. THE FRAME, CHIMNEY, AND TOP "LIP" OF THE CONE SECTION SHALL BE REQUIRED TO BE SEALED WITH A CHIMNEY SEAL. THIS SHOULD BE OBSERVED BY THE CITY PRIOR TO BACKFILLING.
14. NO GROUND WATER WILL BE ALLOWED TO ENTER THE SANITARY SEWER DURING OR AFTER CONSTRUCTION.
15. NO MORE THAN TWELVE INCHES (12") OF ADJUSTING RINGS ARE ALLOWED.

STORM SEWER

1. ALL STORM SEWERS 18-INCH DIAMETER AND LESS SHALL BE PVC SDR26 WITH PIPES AND FITTINGS MEETING ASTM D-3034.
2. ALL RCP STORM SEWERS SHALL BE INSTALLED WITH RUBBER GASKET JOINTS.
3. THE MINIMUM STORM SEWER SIZE ALLOWED IN THE PUBLIC RIGHT-OF-WAY WILL BE 10-INCH DIAMETER UNLESS CONDITIONS WARRANT A SMALLER SIZE.
4. ON PRIVATE PROPERTY, STORM SEWER INSTALLED TO DRAIN AN EXISTING DEPRESSIONAL AREA SHALL GENERALLY BE SIX-INCH OR EIGHT-INCH (6" OR 8") DIAMETER, UNLESS A LARGER SIZE IS SUPPORTED BY CALCULATIONS.
5. STORM MANHOLES AND CATCH BASINS SHALL BE PRE-CAST CONCRETE UNITS. FOR STORM SEWERS 21-INCH DIAMETER OR LESS, THE MANHOLE SHALL BE 48-INCH INSIDE DIAMETER. FOR STORM SEWERS 24-INCH THROUGH 42-INCH DIAMETER, THE MANHOLE SHALL BE 60-INCH INSIDE DIAMETER. FOR STORM SEWERS 48-INCH DIAMETER AND LARGER, THE MANHOLE SHALL BE 72-INCH INSIDE DIAMETER.
6. RUNGS / STEPS SHALL BE INSTALLED IN MANHOLES UNLESS SPECIFICALLY PROHIBITED.
7. THE MINIMUM SIZE STRUCTURE SHALL BE A 2-FOOT DIAMETER PRECAST CONCRETE INLET, UNLESS CONDITIONS WARRANT A DIFFERENT STRUCTURE.
8. FRAMES AND LIDS SHALL CONFORM TO NEENAH FOUNDRY R-1713 OR APPROVED EQUAL AND THE WORD "STORM" SHALL BE CAST IN THE COVER.
9. ALLOWABLE CURB AND PARKWAY CASTINGS FOR INLETS AND CATCH BASINS:
A. WHEN A BARRIER CURB IS PRESENT, USE A NEENAH R-3275 FRAME AND GRATE (FOR B-6.12 CURB AND GUTTER, WIDEN GUTTER SECTION TO ACCOMMODATE LARGER GRATE).
B. FOR SOME SLOPE CONDITIONS WHEN A BARRIER TYPE CURB IS PRESENT, A NEENAH R-3065-L FRAME AND GRATE MAY BE USED (FOR B-6.12 CURB AND GUTTER, WIDEN GUTTER SECTION TO ACCOMMODATE LARGER GRATE).
C. WHEN ROLL CURB IS PRESENT, USE A NEENAH R-3501-P FRAME AND GRATE.
D. IN LAWN AREAS, USE BEEHIVE TYPE GRATE, NEENAH R-4340-B.
E. IN LAWN AREAS WHERE A LOT OF TREES ARE PRESENT, IN PUBLIC RIGHT-OF-WAY AND IN DITCHES, USE STOOL TYPE GRATE, NEENAH R-4342.
F. WHEN APPLICABLE IN PARKING LOTS OR LAWN AREAS, USE ROUND GRATE NEENAH R-2502-A.
ROUND GRATES WILL NOT BE ALLOWED IN THE STREET. EQUIVALENT SUBSTITUTIONS MAY BE PERMITTED, IF APPROVED BY PUBLIC WORKS.

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DRAWING LAST SAVED: 2/14/2025 10:56 AM BY KRIS
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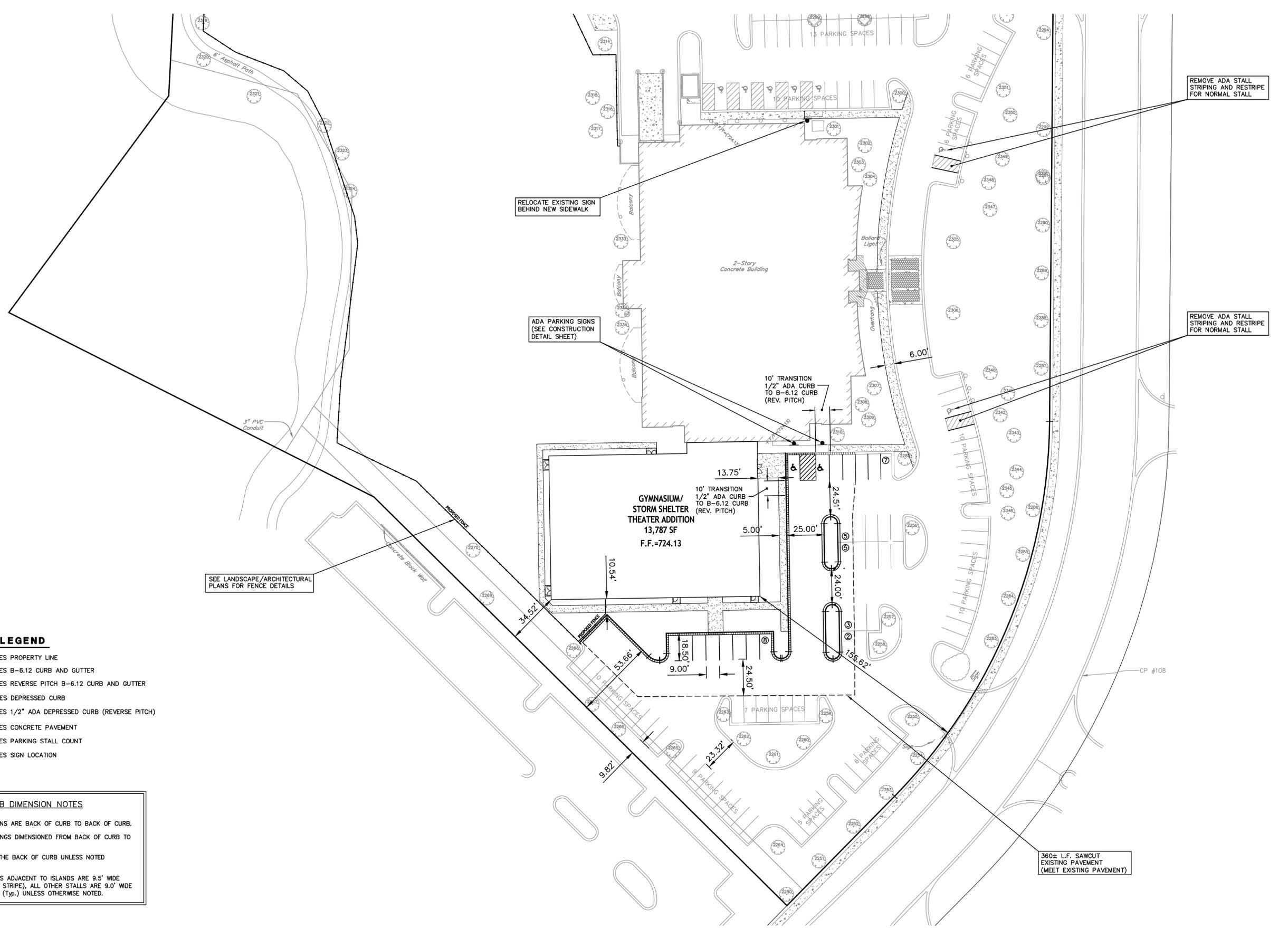
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REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

CONSTRUCTION SPECIFICATIONS – GENERAL NOTES ORION STEM SCHOOL AT 4520 WEAVER PARKWAY

FILE NAME: GENNOTES	DSGN. BY: KMM	JOB NO.: 904503	FLD. BK./PG.: ---	SHEET NO.
DIR: 904503	DRN. BY: JGC	DATE: FEBRUARY 14, 2025	SCALE: 1" = NONE	03 of 11

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LEGEND

- INDICATES PROPERTY LINE
- INDICATES B-6.12 CURB AND GUTTER
- INDICATES REVERSE PITCH B-6.12 CURB AND GUTTER
- INDICATES DEPRESSED CURB
- INDICATES 1/2" ADA DEPRESSED CURB (REVERSE PITCH)
- INDICATES CONCRETE PAVEMENT
- INDICATES PARKING STALL COUNT
- INDICATES SIGN LOCATION

CURB DIMENSION NOTES

1. ALL CURB DIMENSIONS ARE BACK OF CURB TO BACK OF CURB.
2. CURB ALONG BUILDINGS DIMENSIONED FROM BACK OF CURB TO FACE OF BUILDING.
3. ALL RADII ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.
4. ALL PARKING STALLS ADJACENT TO ISLANDS ARE 9.5' WIDE (BACK OF CURB TO STRIPE), ALL OTHER STALLS ARE 9.0' WIDE (STRIPE TO STRIPE) (Typ.) UNLESS OTHERWISE NOTED.

SEE LANDSCAPE/ARCHITECTURAL PLANS FOR FENCE DETAILS

REMOVE ADA STALL STRIPING AND RESTRIPE FOR NORMAL STALL

REMOVE ADA STALL STRIPING AND RESTRIPE FOR NORMAL STALL

360± L.F. SAWCUT EXISTING PAVEMENT (MEET EXISTING PAVEMENT)

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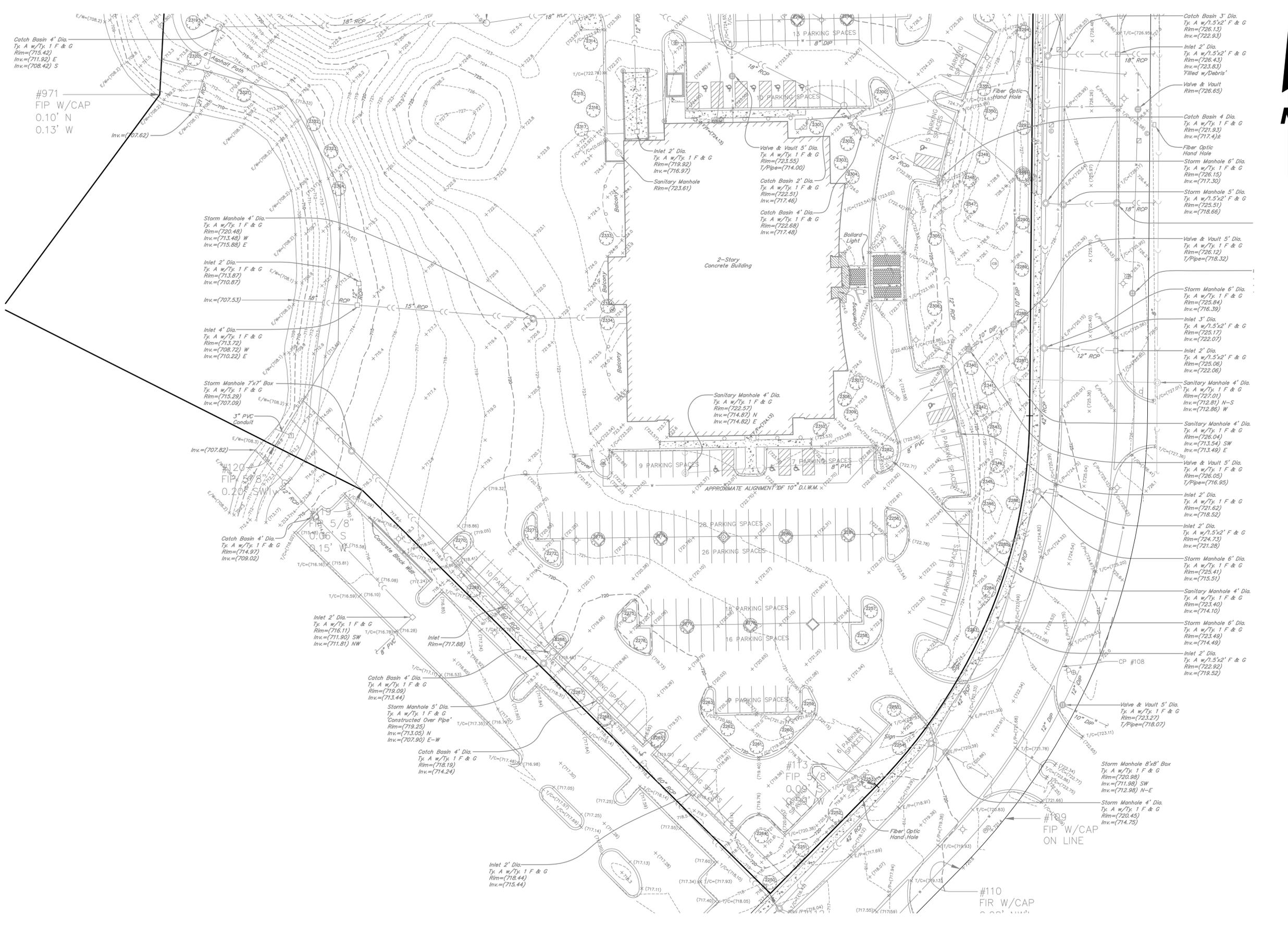
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NO.		DATE	DESCRIPTION	REVISIONS		NO.	DATE	DESCRIPTION

GEOMETRIC PLAN
ORION STEM SCHOOL AT 4520 WEAVER PARKWAY

FILE NAME: GEO	DSGN. BY: KMM	JOB NO.: 904503	FLD. BK./PG.: ---	SHEET NO.
DIR: 904503	DRN. BY: JGC	DATE: FEBRUARY 14, 2025	SCALE: 1" = 30'	04 of 11

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LINE/SYMBOL/ABBREVIATION LEGEND

- BOUNDARY LIMITS
- ADJACENT PROPERTY OR R.O.W. LINE
- EASEMENT LIMITS
- OVERHEAD WIRES
- UNDERGROUND GAS LINE
- UNDERGROUND STORM LINE
- UNDERGROUND SANITARY LINE
- UNDERGROUND WATER LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND PHONE LINE
- UNDERGROUND FIBER OPTIC LINE
- FENCE
- BRUSH/TREE LINE
- ⊙ AIR CONDITIONER
- ⊙ BOLLARD
- ⊙ CABLE TV PEDESTAL
- ⊙ CATCH BASIN
- ⊙ DRAIN
- ⊙ HAND HOLE
- ⊙ ELECTRIC JUNCTION BOX
- ⊙ ELECTRIC METER
- ⊙ ELECTRIC PEDESTAL
- ⊙ ELECTRIC TRANSFORMER
- ⊙ FIBER OPTIC MARKER POST
- ⊙ FIRE HYDRANT
- ⊙ GAS METER
- ⊙ GAS VALVE
- ⊙ GAS MARKER POST
- ⊙ INLET
- ⊙ LIGHT STANDARD
- ⊙ LANDSCAPE LIGHT
- ⊙ IRRIGATION CONTROL BOX
- ⊙ SANITARY CLEANOUT
- ⊙ SANITARY MANHOLE
- ⊙ STORM MANHOLE
- ⊙ SIGN
- ⊙ TELEPHONE JUNCTION BOX
- ⊙ TELEPHONE MANHOLE
- ⊙ TELEPHONE PEDESTAL
- ⊙ TRAFFIC SIGNAL POLE
- ⊙ TRAFFIC SIGNAL POLE W/MAST
- ⊙ UTILITY POLE
- ⊙ GUY WIRE
- ⊙ WATER VALVE
- ⊙ VALVE VAULT
- ⊙ SIAMESE FIRE HOSE CONNECTION
- ▨ CONCRETE SURFACE
- R.O.W. RIGHT OF WAY
- B-B BACK-TO-BACK
- E-E EDGE-TO-EDGE
- ☀ CONIFEROUS TREE w/TRUNK DIAM.
- 🌳 DECIDUOUS TREE w/TRUNK DIAM.



PREPARED FOR:
 W ESTATE, LLC
 3644 WHITE EAGLE DRIVE
 NAPERVILLE, IL 60564
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REVISIONS		REVISIONS			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

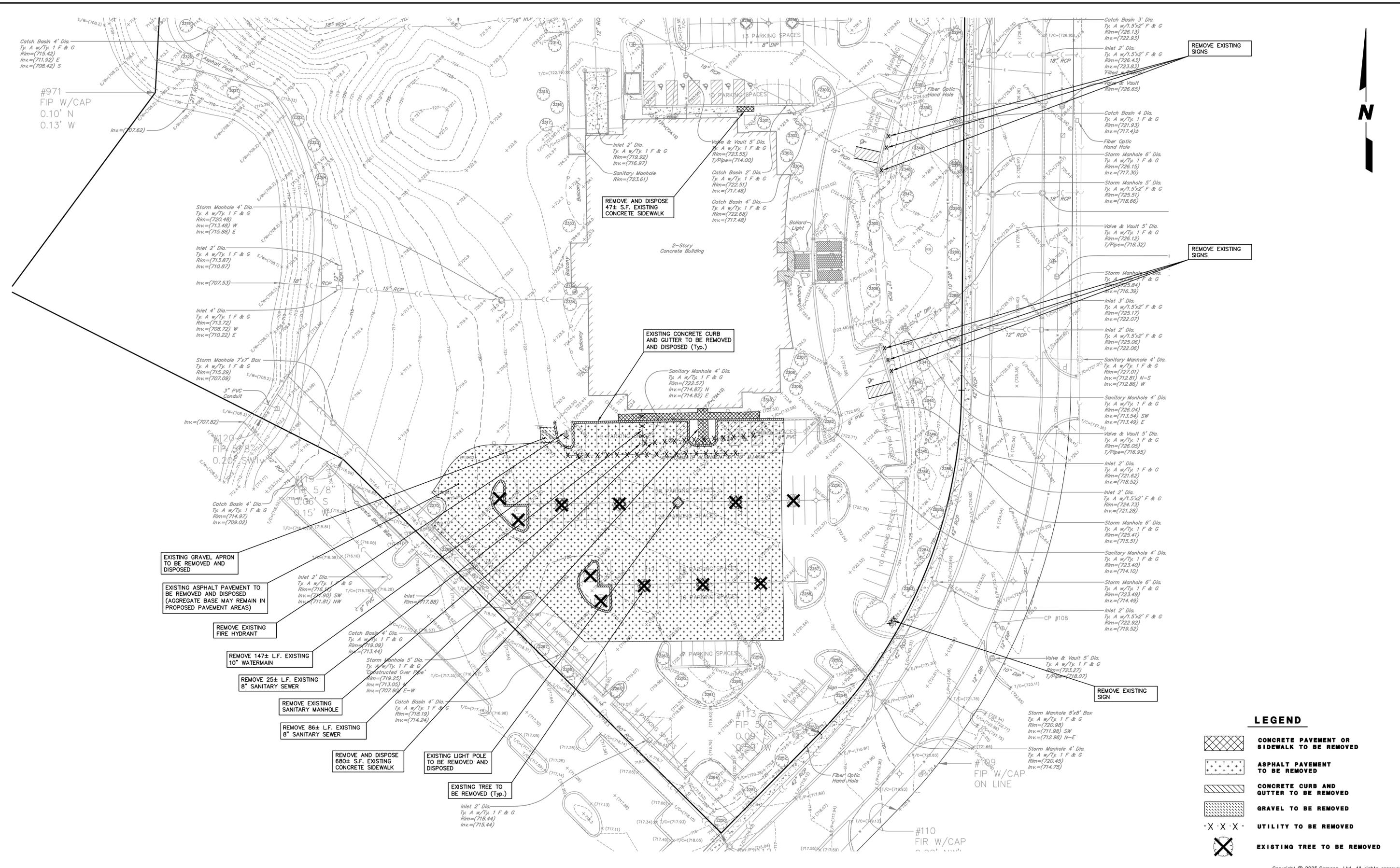
EXISTING CONDITIONS PLAN

ORION STEM SCHOOL AT 4520 WEAVER PARKWAY

FILE NAME: EXIST COND	DSGN. BY: KMM	JOB NO.: 904503	FLD. BK./PG.: ---	SHEET NO.
DIR: 904503	DRN. BY: JGC	DATE: FEBRUARY 14, 2025	SCALE: 1" = 30'	05 of 11

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LEGEND

- CONCRETE PAVEMENT OR SIDEWALK TO BE REMOVED
- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE CURB AND GUTTER TO BE REMOVED
- GRAVEL TO BE REMOVED
- UTILITY TO BE REMOVED
- EXISTING TREE TO BE REMOVED

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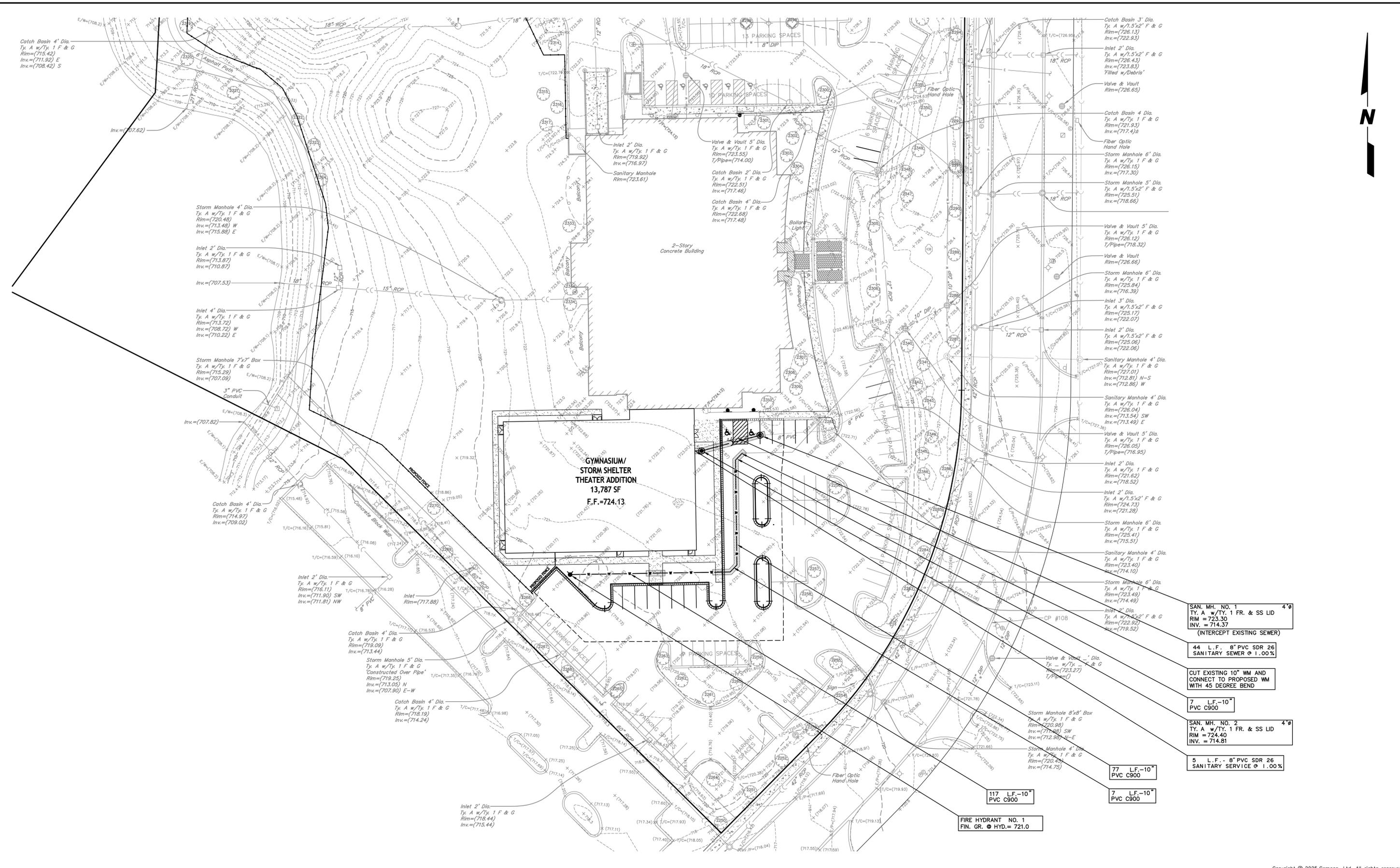
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DEMOLITION PLAN

ORIN STEM SCHOOL AT 4520 WEAVER PARKWAY

FILE NAME: DEMO	DSGN. BY: KMM	JOB NO.: 904.503	FLD. BK./PG.: ---	SHEET NO.
DIR: 904503	DRN. BY: JGC	DATE: FEBRUARY 14, 2025	SCALE: 1" = 30'	06 of 11

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 PLOT FILE CREATED: 2/14/2025 11:17 AM BY KRIS
 DRAWING PATH: P:\904503\DWG\ENGINEERING\PRELIMINARY\UTILITY.DWG



- SAN. MH. NO. 1
TY. A w/Ty. 1 FR. & SS LID
RIM = 723.30
INV. = 714.37
(INTERCEPT EXISTING SEWER)
- 44 L.F. 8" PVC SDR 26
SANITARY SEWER @ 1.00%
- CUT EXISTING 10" WM AND
CONNECT TO PROPOSED WM
WITH 45 DEGREE BEND
- 7 L.F.-10"
PVC C900
- SAN. MH. NO. 2
TY. A w/Ty. 1 FR. & SS LID
RIM = 724.40
INV. = 714.81
- 5 L.F. - 8" PVC SDR 26
SANITARY SERVICE @ 1.00%
- 77 L.F.-10"
PVC C900
- 117 L.F.-10"
PVC C900

FIRE HYDRANT NO. 1
FIN. GR. @ HYD. = 721.0

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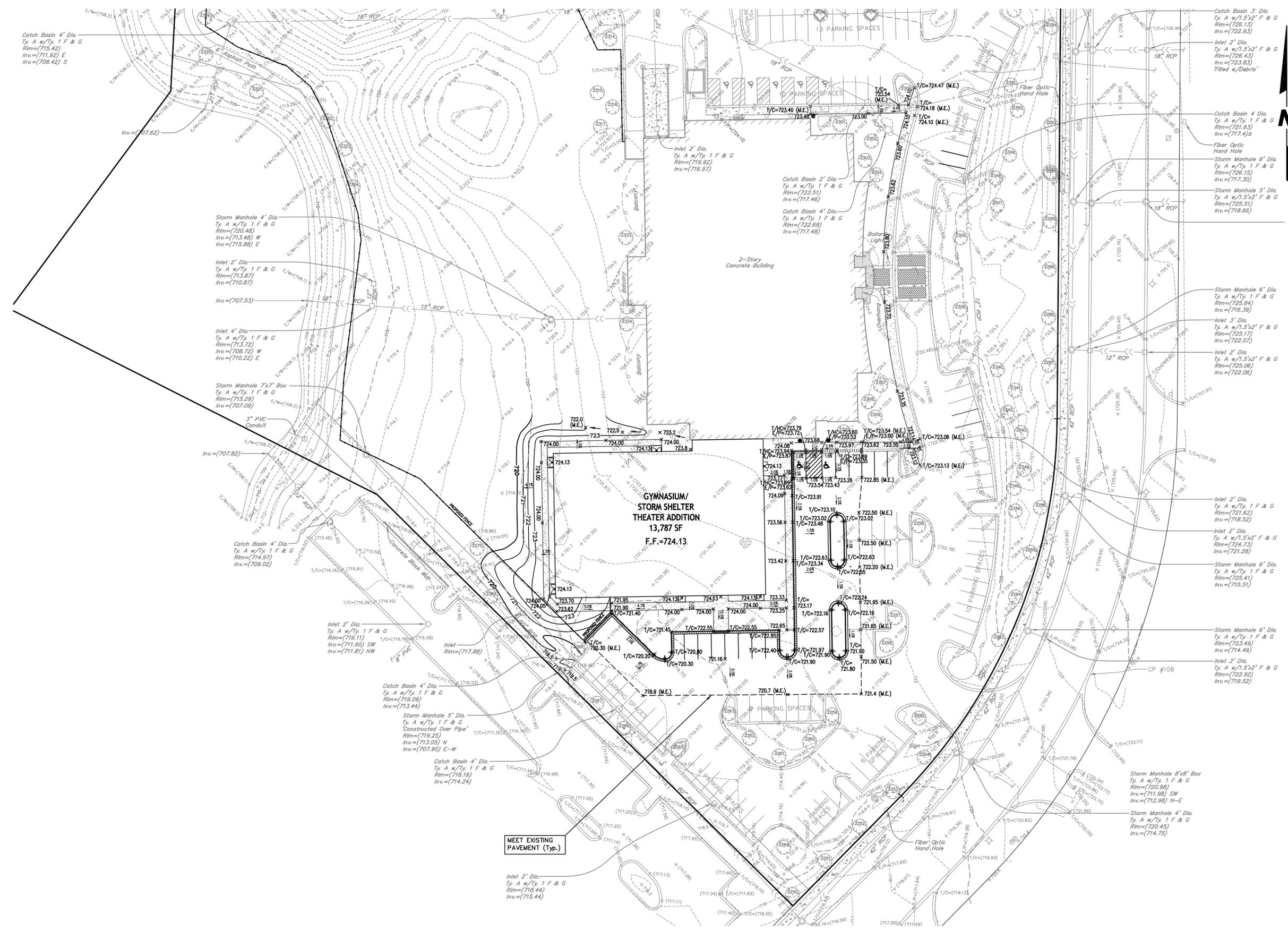
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UTILITY PLAN				
ORION STEM SCHOOL AT 4520 WEAVER PARKWAY				
FILE NAME: UTILITY	DSGN. BY: KMM	JOB NO.: 904.503	FLD. BK./PG.: ---	SHEET NO.
DIR: 904503	DRN. BY: JGC	DATE: FEBRUARY 14, 2025	SCALE: 1" = 30'	07 of 11

DRAINAGE & GRADING NOTES

1. ELEVATIONS SHOWN FOR ALL CURB INLETS, CATCH BASINS, AND MANHOLES ARE TOP OF CURB.
2. ALL CURBS SHALL BE BACKFILLED TO WITHIN 6 INCHES OF THE TOP OF CURB.
3. ALL BACK YARD SWALES SHALL BE CUT OR FILLED 6 INCHES BELOW FINISHED GRADE.
4. EXISTING DRAINAGE TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE PRESERVED OR REPAIRED IN ACCORDANCE WITH SPECIFICATION (SEE SHEET 2).
5. F.F. - INDICATES PROPOSED FINISHED FLOOR ELEVATIONS AND THE LOWEST OPENING IN A CONVENTIONAL FOUNDATION WHERE SURFACE RUNOFF CAN ENTER THE FOUNDATION.
6. LOT DIMENSIONS SHOWN ON THIS PLAN MAY NOT NECESSARILY CORRESPOND TO THE PLATTED DIMENSIONS. REFER TO THE FINAL RECORDED PLAT OF SUBDIVISION.
7.  - WATERMAIN PROTECTION (SEE SHEETS 2 & 3 FOR DETAILS.)
8.  - DENOTES AREA WHERE GRANULAR TRENCH BACKFILL IS REQUIRED.
9. (ELEV.) - INDICATES EXISTING ELEVATION.
10.  - DENOTES EXISTING UTILITY TO BE REMOVED.



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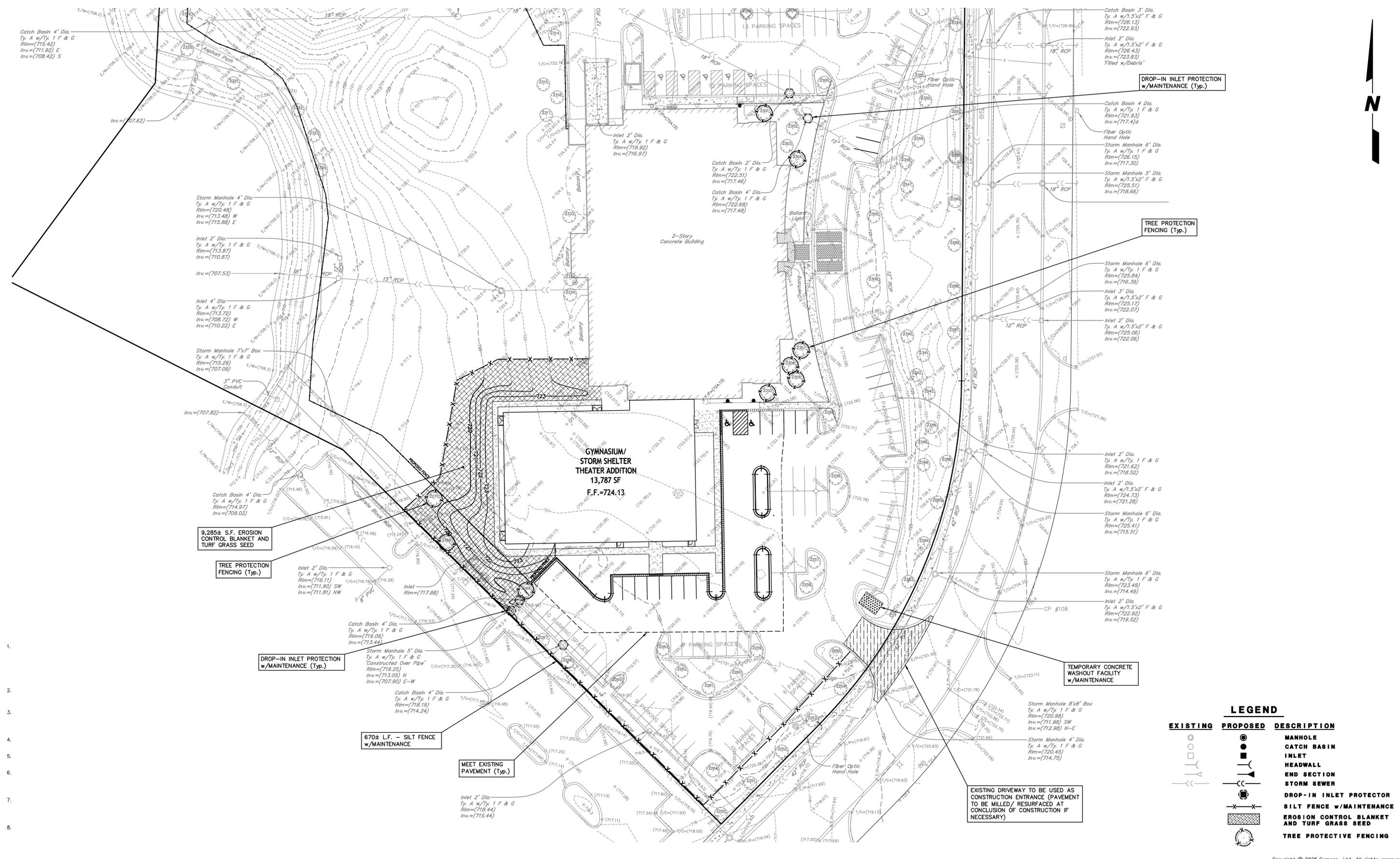


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DRAINAGE AND GRADING PLAN				
ORION STEM SCHOOL AT 4520 WEAVER PARKWAY				
FILE NAME: GRADE	DSGN. BY: KMM	JOB NO.: 904.503	FLD. BK./PG.: ---	SHEET NO.
DIR: 904503	DRN. BY: JGC	DATE: FEBRUARY 14, 2025	SCALE: 1" = 30'	08 of 11

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LEGEND		
EXISTING	PROPOSED	DESCRIPTION
○	●	MANHOLE
□	■	CATCH BASIN
—	—	INLET
—	—	HEADWALL
—	—	END SECTION
—	—	STORM SEWER
—	—	DROP-IN INLET PROTECTOR
—	—	SILT FENCE w/MAINTENANCE
—	—	EROSION CONTROL BLANKET AND TURF GRASS SEED
—	—	TREE PROTECTIVE FENCING

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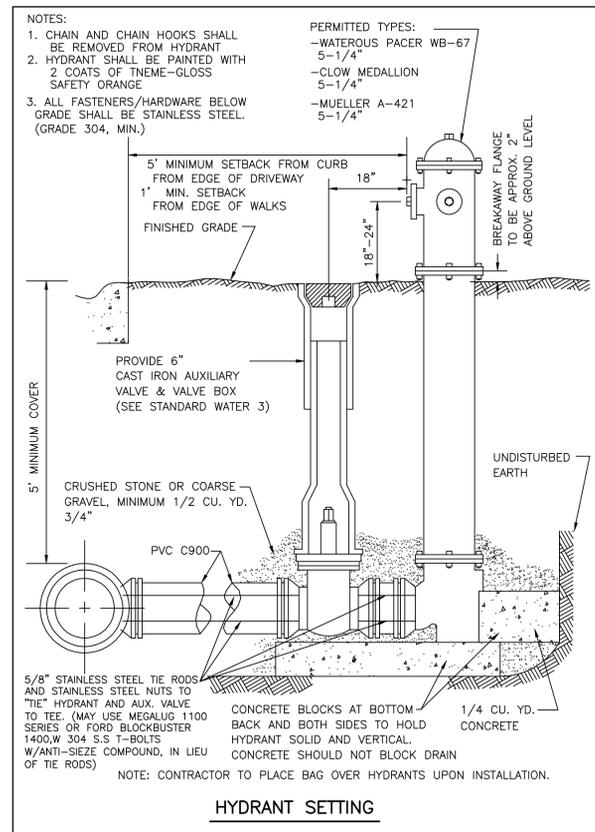
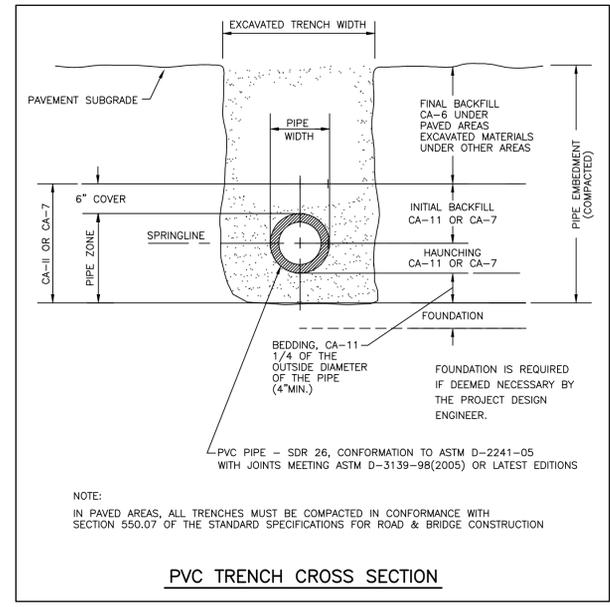
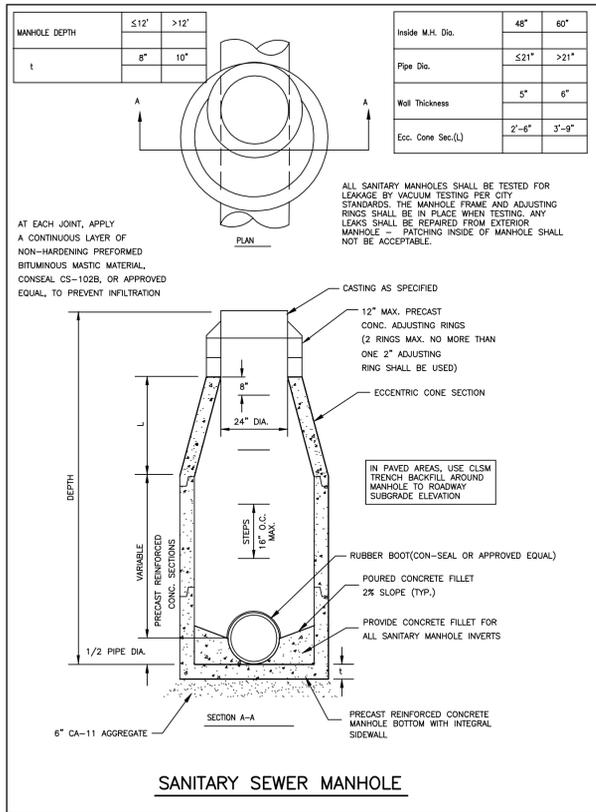
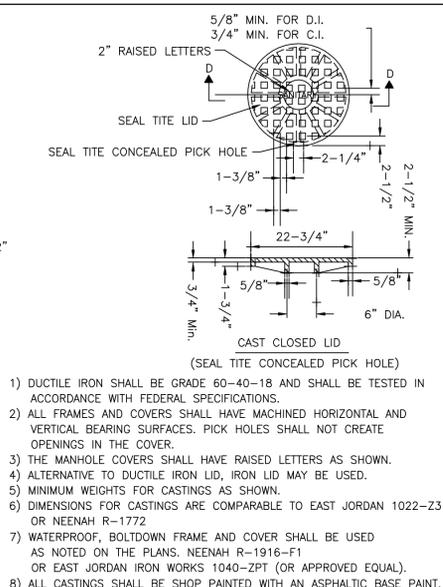
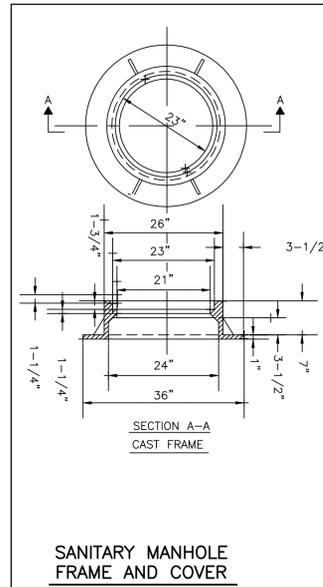
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NO.		DATE	DESCRIPTION	NO.		DATE	DESCRIPTION

SOIL EROSION AND SEDIMENTATION CONTROL PLAN
ORION STEM SCHOOL AT 4520 WEAVER PARKWAY

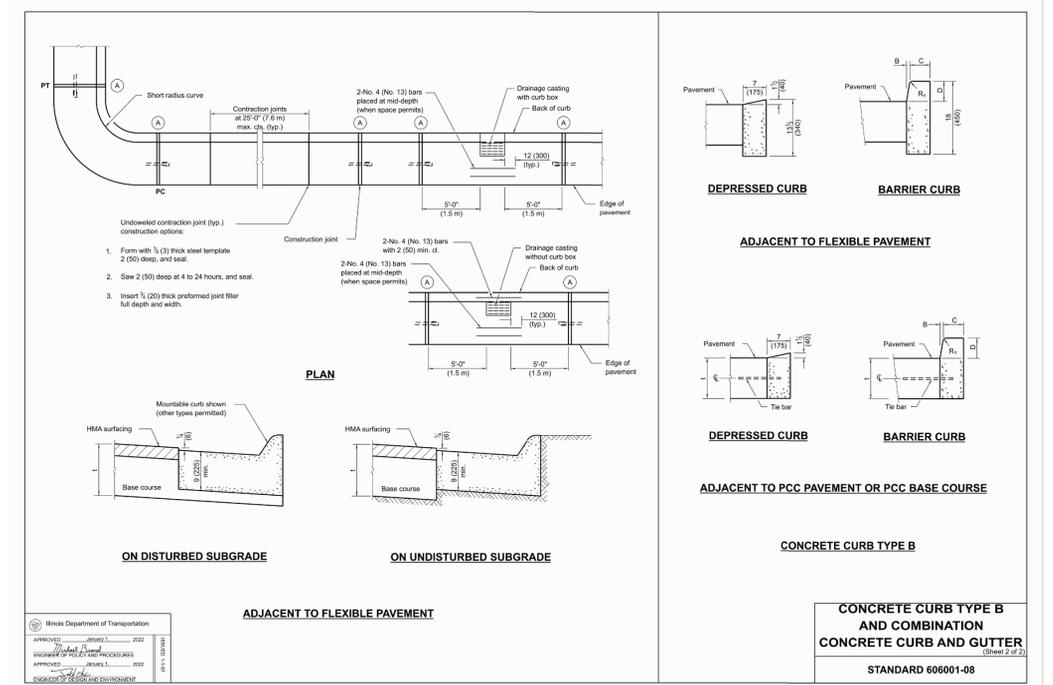
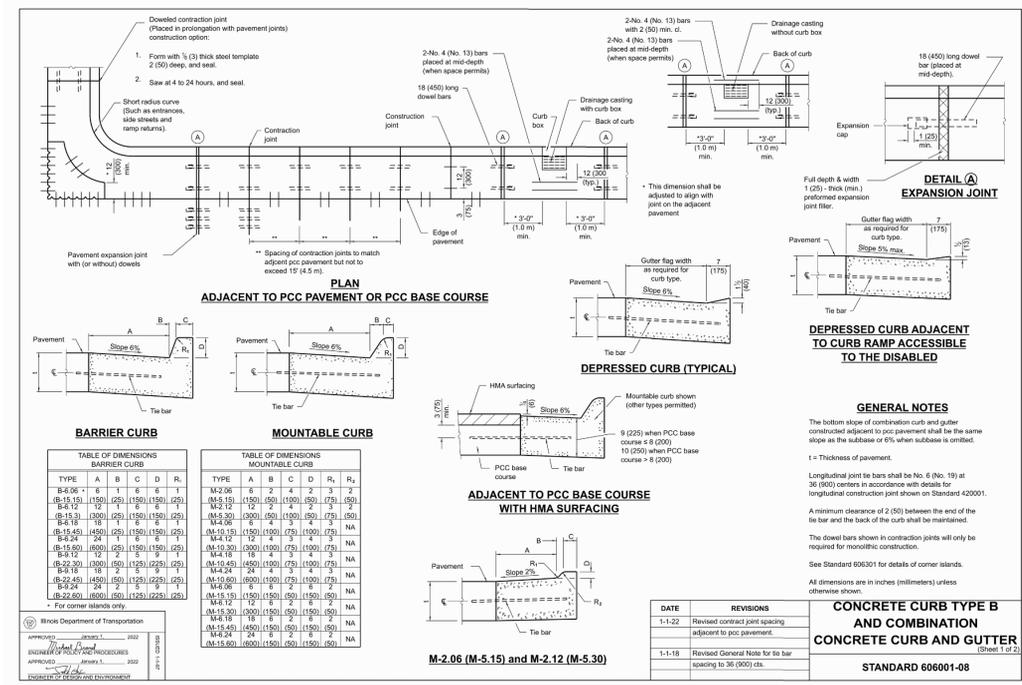
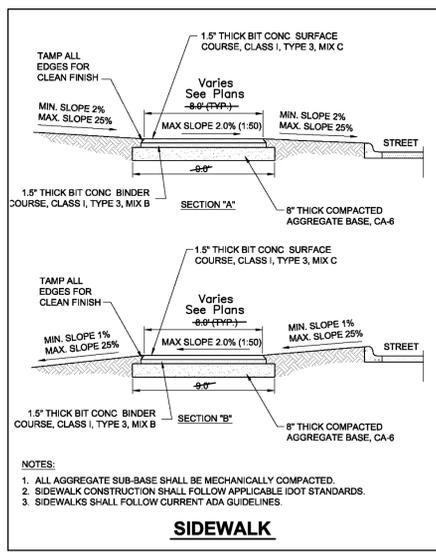
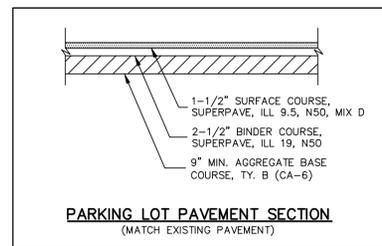
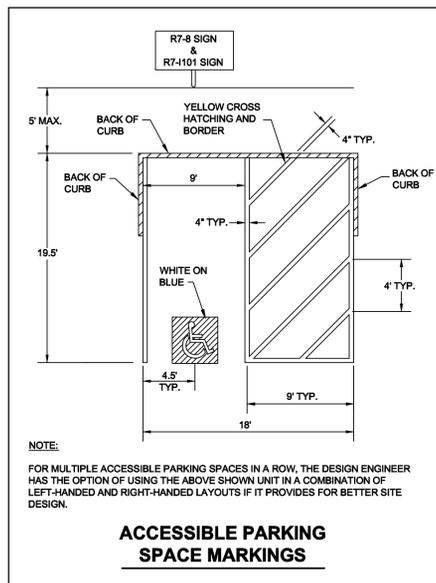
FILE NAME: SOILERO	DSGN. BY: KMM	JOB NO.: 904503	FLD. BK./PG.: ---	SHEET NO.
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- DUCTILE IRON SHALL BE GRADE 60-40-18 AND SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
- ALL FRAMES AND COVERS SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES SHALL NOT CREATE OPENINGS IN THE COVER.
- THE MANHOLE COVERS SHALL HAVE RAISED LETTERS AS SHOWN.
- ALTERNATIVE TO DUCTILE IRON LID, IRON LID MAY BE USED.
- MINIMUM WEIGHTS FOR CASTINGS AS SHOWN.
- DIMENSIONS FOR CASTINGS ARE COMPARABLE TO EAST JORDAN 1022-Z3 OR NEENAH R-1772.
- WATERPROOF, BOLTDOWN FRAME AND COVER SHALL BE USED AS NOTED ON THE PLANS. NEENAH R-1916-F1 OR EAST JORDAN IRON WORKS 1040-ZPT (OR APPROVED EQUAL).
- ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.

- NOTES:
- CHAIN AND CHAIN HOOKS SHALL BE REMOVED FROM HYDRANT.
 - HYDRANT SHALL BE PAINTED WITH 2 COATS OF TNE-M-GLOSS SAFETY ORANGE.
 - ALL FASTENERS/HARDWARE BELOW GRADE SHALL BE STAINLESS STEEL (GRADE 304, MIN.).
- PERMITTED TYPES:
- WATEROUS PACER WB-67 5-1/4"
 - CLOW MEDALLION 5-1/4"
 - MUELLER A-421 5-1/4"



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NO.		DATE		DESCRIPTION	
1-122	1-122	Revised	contract joint spacing		
1-118	1-118	Revised	General Note for tie bar spacing to 36 (900) cts.		

CONSTRUCTION DETAILS				
ORION STEM SCHOOL AT 4520 WEAVER PARKWAY				
FILE NAME: DETAILS	DSGN. BY: KMM	JOB NO.: 904.503	FLD. BK./PG.: ---	SHEET NO. 11 of 11
DIR: 904503	DRN. BY: JGC	DATE: FEBRUARY 14, 2025	SCALE: 1" = N.T.S.	

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