

01-20-2023 LETTING ITEM 075

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR URBANA PARK DISTRICT
CRYSTAL LAKE SHARED USE PATH

URBANA PARK DISTRICT
URBANA, ILLINOIS

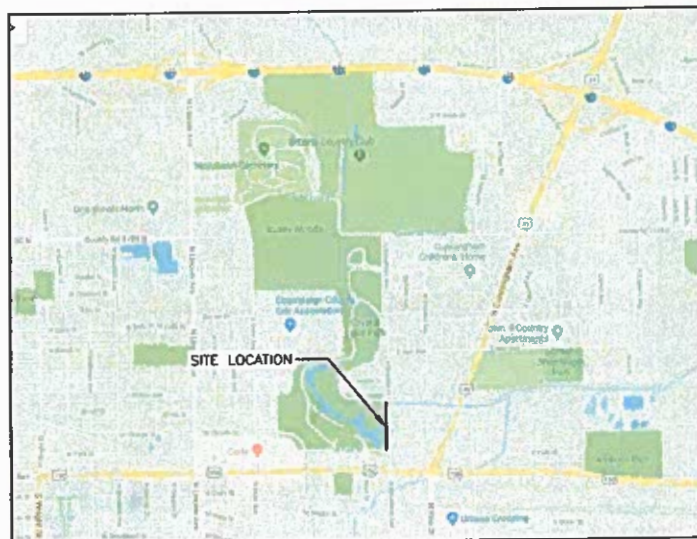
SECTION: 22-P4003-00-BT
PROJECT NO. PL10(830)
JOB NO. C-95-001-23
FUNDING: ITEP

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UTILITIES	
UTILITY TYPE	COMMON NAME
WATER	ILLINOIS AMERICAN WATER
ELECTRIC	AMEREN
TELEPHONE	AT&T
GAS	AMEREN
CABLE	COMCAST
SANITARY & STORM	CITY OF URBANA
SANITARY INTERCEPTORS	URBANA CHAMPAIGN SANITARY DISTRICT
TELECOMMUNICATIONS	IS
TELECOMMUNICATIONS	CONSOLIDATED

(CONTRACTOR TO BE RESPONSIBLE FOR ANY ADJUSTMENTS TO BE MADE.)



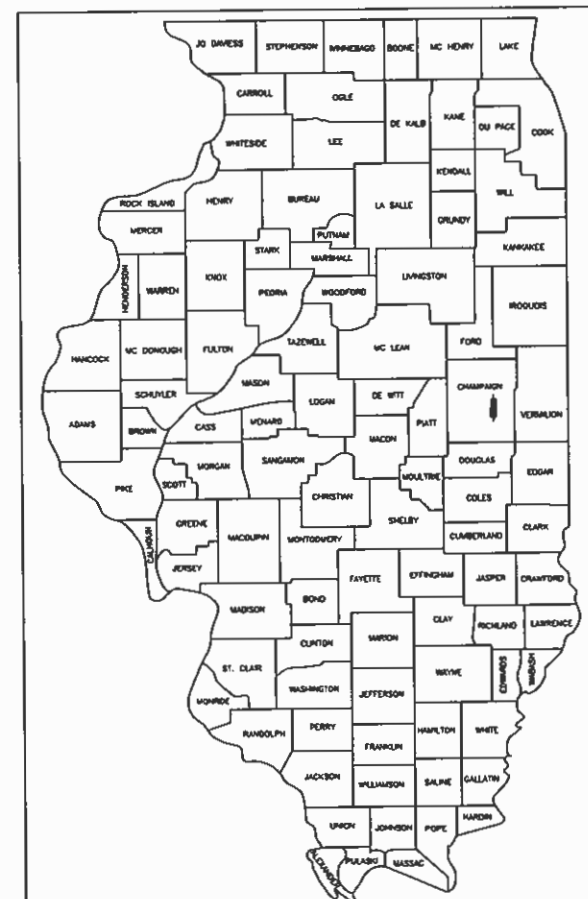
LOCATION MAP

LENGTH OF SECTION = 965 FT = 0.18 MILES



ILLINOIS IOWA WISCONSIN

ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER: 184003525



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED *Timothy A. Bratt*
October 7, 2022
URBANA PARK DISTRICT

PASSED *October 25, 2022*
[Signature]
DISTRICT 5 ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW *October 25, 2022*
[Signature]
REGION 3 ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Chad M. Osterbur
CHAD M. OSTERBUR
ILLINOIS LICENSED PROFESSIONAL ENGINEER #059195
LICENSE EXPIRES 11/30/23
10/6/22 DATE

REVISIONS		DATE
REV. NO.	DESCRIPTION	DATE

GENERAL NOTES

- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MUNICIPAL CODE, CITY OF URBANA, ILLINOIS, CURRENT EDITION, THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION, "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," CURRENT EDITION, SPECIAL PROVISIONS AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", CURRENT EDITION. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
- IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "ENGINEER", WHICH SHALL MEAN FEHR GRAHAM OR THEIR DULY AUTHORIZED AGENT. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "OWNER", WHICH SHALL MEAN URBANA PARK DISTRICT, OR THEIR DULY AWARDED AGENT.
- AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS, AS PRESENTED IN THESE PLAN DOCUMENTS, ARE SUBSTANTIALLY CORRECT. IF DISCREPANCIES ARE DETECTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCREPANCY PRIOR TO THE BID DATE.
- QUANTITIES SHOWN ARE ESTIMATES FOR INFORMATION ONLY. PAYMENT WILL BE BASED ON ACTUAL QUANTITIES MEASURED IN THE FIELD OR ON PAYMENT LIMIT DETAILS.
- THE CONTRACTOR SHALL BE PAID FOR MATERIALS AND EQUIPMENT SUCCESSFULLY INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AS MEASURED OR VERIFIED IN PLACE BY THE ENGINEER OR HIS AGENT.
- IN CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE OWNER. IMPROVEMENT REPRESENTATIONS AS SHOWN ON THESE PLANS, ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES - THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SAID REQUESTS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED IN CONSTRUCTING THOSE IMPROVEMENTS AS DETAILED IN THIS ENGINEERING PLAN.
- THE ENGINEER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH GO TO MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS.
- GENERAL SAFETY PROVISION: TO PROVIDE DRIVERS WITH SAFE TRAVEL CONDITIONS DURING THE CONSTRUCTION PROJECT, AND TO PROVIDE SAFE WORKING CONDITIONS FOR ALL EMPLOYEES, THE RULES, REGULATIONS, AND CONDITIONS STATED BELOW WILL PREVAIL FOR THE DURATION OF THIS CONTRACT. ANY EMPLOYEE OF THE CONTRACTOR OR HIS SUBCONTRACTORS WHO REFUSES TO COMPLY WITH THESE GENERAL SAFETY PROVISIONS SHALL BE REMOVED FROM THE JOB SITE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR AND ANY SUBCONTRACTORS RETAINED BY HIM SHALL COMPLY WITH THE STATE AND FEDERAL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA), JULY 1, 1987 AS IT RELATES TO CONTRACTOR'S OPERATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.
- THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS NOT THE REDUCED SIZE PLANS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCIDENTAL TO THE CONTRACT.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED OR DISTURBED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS AND RIGHT-OF-WAY PINS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS. REPLACEMENT OF MONUMENTS WILL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE, STORE, AND RELOCATE TO THE SATISFACTION OF THE ENGINEER ALL EXISTING SIGNAGE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS, AND CONSIDER THIS AS INCIDENTAL TO THE CONTRACT.
- OUTSIDE THE EXISTING RIGHT-OF-WAY, THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING SIGNS OUTSIDE THE RIGHT-OF-WAY. ANY SIGNS REMOVED FOR CONSTRUCTION PURPOSES SHALL BE CAREFULLY REMOVED AND RE-ERECTED BY THE CONTRACTOR AT A LOCATION NEAREST TO THE ORIGINAL LOCATION, OR AT A LOCATION DETERMINED BY THE ENGINEER IN THE FIELD. REMOVAL AND RE-ERECTED SIGNS AND ANY DAMAGE DONE TO EXISTING SIGNS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. MATERIALS AND LABOR NOT SPECIFICALLY IDENTIFIED SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- AT THE END OF EACH DAY, THE CONTRACTOR SHALL SECURE THE CONSTRUCTION WORK ZONE FROM POTENTIAL INTRUDERS.
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER OF ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES, AND SHALL NOT PROCEED WITH THE WORK UNTIL ALL LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE ENGINEER OR HIS REPRESENTATIVE.
- THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- ALL ITEMS TO BE REMOVED AND NOT DEFINED AS A PAY ITEM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- ALL EXCESS EARTH EXCAVATION, EXCESS MATERIALS, OR OTHER REMOVED ITEMS SHALL BE HAULED OFF-SITE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE OWNER.
- THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 201 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OBSTRUCTIONS, TREES, DEBRIS AND BRUSH AS DESIGNATED BY THE OWNER AND AS INDICATED ON THE PLANS. ALL MATERIALS SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DURING CONSTRUCTION, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE EXISTING TREES AND LANDSCAPING. ONLY THOSE ITEMS DESIGNATED BY THE OWNER SHALL BE REMOVED.
- ALL ROADWAY REMOVAL ITEMS SHALL CONFORM TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION. ALL JOINTS BETWEEN THE PORTION REMOVED AND THAT LEFT IN PLACE SHALL BE SAWED TO SUCH A DEPTH THAT A CLEAN, NEAT EDGE WILL RESULT WITH NO SPALLING TO THE REMAINING PORTION. THE COST OF SAWING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ADDITIONAL SAWING OR RE-SAWING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER WITH NO ADDITIONAL COMPENSATION BEING ALLOWED. THE COST OF SAWCUTTING THE EXISTING PAVEMENT SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

CONTRACT NO. 91616

GENERAL NOTES

- WHEN ARTIFICIAL LIGHTING IS UTILIZED DURING NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AS WELL AS ADJOINING RESIDENTIAL AREAS.
- THE CONTRACTOR IS REQUIRED TO STAY WITHIN THE NOTED PROPERTY BOUNDARIES RIGHT-OF-WAY AND EASEMENTS AS SHOWN IN THE PLANS. ANY ADDITIONAL EASEMENTS SHALL BE SECURED BY THE CONTRACTOR AT NO EXTRA COST.
- ANY AREAS DAMAGED OR DISTURBED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTOR OPERATIONS, SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. THE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY, STRUCTURE, LANDSCAPING, ETC., DAMAGED OR DESTROYED BY THE CONTRACTOR DURING MOBILIZATION OR CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR, WITH NO EXPENSE BEING CHARGED TO THE ENGINEER OR OWNER. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT, THE CONTRACTOR SHALL PRESENT THE OWNER WITH A "SIGNOFF LETTER", SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED UTILITY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.

CONSTRUCTION STAKING

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE PROPOSED IMPROVEMENTS AND SHALL INCLUDE THE COST OF STAKING IN THEIR QUOTE. CONTROL POINTS ARE INDICATED ON THE PLANS.

EROSION CONTROL NOTES

- UNLESS OTHERWISE SPECIFIED, ALL EROSION AND SEDIMENT CONTROL MEASURES AND THEIR MAINTENANCE, CLEARING AND REMOVAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE URBANA EROSION CONTROL STANDARDS, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.
- A NOTICE OF INTENT (NOI) AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE COMPLETED AND SUBMITTED TO THE ILLINOIS EPA BY THE OWNER PRIOR TO CONSTRUCTION.
- THE SWPPP SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS AND WILL BE AVAILABLE FOR REVIEW DURING THE BIDDING PROCESS.
- A COPY OF THE SWPPP WILL BE PROVIDED TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL MAINTAIN ONE COPY OF THE SWPPP AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.
- THE CONTRACTOR SHALL LEGIBLY MARK ANY CHANGES OR REVISIONS IMPLEMENTED TO THE SWPPP. AT COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL DELIVER THE SWPPP (INCLUDING ALL REVISIONS, RECORDS, AND INSPECTION REPORTS) TO THE OWNER.
- THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR RESPONSIBLE FOR SEDIMENT AND EROSION CONTROL MEASURES OR CONSTRUCTION ACTIVITIES THAT DISTURB SITE SOIL WILL BE REQUIRED TO CERTIFY THE SWPPP BEFORE A NOTICE TO PROCEED IS ISSUED.
- A COPY OF THE LETTER OF NOTIFICATION OF COVERAGE, AND THE GENERAL NPDES PERMIT NO. ILR10 MUST BE POSTED IN A PROMINENT PLACE FOR PUBLIC VIEWING AT THE CONSTRUCTION SITE BY THE GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THESE EROSION CONTROL PLANS AND IN THE SWPPP BEFORE CONSTRUCTION BEGINS.
- THE CONTROLS SHALL BE INSTALLED AS DETAILED AND WHERE INDICATED ON THE EROSION CONTROL PLAN SHEETS AND AS DIRECTED BY THE INSPECTOR.
- SITE ACTIVITIES SHOULD ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICABLE.
- EXCEPT AS PROVIDED IN THE SWPPP, DISTURBED PORTIONS OF THE SITE SHALL BE STABILIZED (TEMPORARILY OR PERMANENTLY SEEDED, MULCHED, SODDED OR PAVED) AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- UNTIL SUCH TIME AS THE PROJECT SITE REACHES FINAL STABILIZATION AND A NOTICE OF TERMINATION IS FILED BY THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST, REPAIR, OR REPLACE, ALL VEGETATION, EROSION CONTROLS, SEDIMENT CONTROLS, AND ANY OTHER PROTECTIVE MEASURES AS REQUIRED IN ORDER TO MAINTAIN THEIR INTENDED FUNCTION IN A GOOD AND EFFECTIVE OPERATING CONDITION.
- EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER EXPECTED DURING THE CONSTRUCTION PROCESS THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ARE IDENTIFIED IN THE SWPPP. THESE DISCHARGES SHALL BE DIRECTED AWAY FROM UNPROTECTED, BARE, OR OTHERWISE UNSTABILIZED SOIL, AND APPROPRIATE POLLUTION PREVENTION MEASURES SHALL BE IMPLEMENTED SO THAT THESE DISCHARGES DO NOT CAUSE EROSION OR DEGRADE THE QUALITY OF RUNOFF FROM THE CONSTRUCTION SITE.
- REGULAR INSPECTIONS WILL BE MADE AS REQUIRED UNDER THE GENERAL NPDES PERMIT NO. ILR10 AND SPECIFIED IN THE SWPPP. BASED ON THE RESULTS OF THE INSPECTIONS, POLLUTION PREVENTION MEASURES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER EACH INSPECTION. SUCH REVISIONS SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING EACH INSPECTION.
- THE INSPECTOR SHALL HAVE AUTHORIZATION TO DETERMINE THE ADEQUACY OF THE CONTRACTOR'S EROSION CONTROL EFFORTS. THE OWNER OR THE INSPECTOR SHALL HAVE FULL AUTHORITY OVER THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR TO CAUSE POLLUTANT CONTROL MEASURES TO BE REPAIRED, MODIFIED, MAINTAINED, SUPPLEMENTED, OR WHATEVER ELSE IS NECESSARY IN ORDER TO ACHIEVE EFFECTIVE POLLUTANT CONTROL OR TO SUSPEND OR LIMIT THE CONTRACTORS OPERATIONS PENDING ADEQUATE PERFORMANCE.
- PERIMETER EROSION BARRIER TO BE CONSTRUCTED OF SILT FENCE UNLESS NOTED OTHERWISE.
- INLET PROTECTION SHALL BE PER URBANA EROSION CONTROL STANDARDS.
- EROSION CONTROL BLANKET SHALL BE OF NORTH AMERICAN GREEN DS75 OR APPROVED EQUAL.
- A TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AT A LOCATION APPROVED BY THE ENGINEER. WASHOUT FACILITY SHALL BE UTILIZED FOR ALL APPLICABLE OPERATIONS.

EROSION CONTROL NOTES

- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED, TO THE DIMENSIONS AS SHOWN, AT APPROVED LOCATIONS FOR THIS PROJECT. ALL CONSTRUCTION TRAFFIC MUST UTILIZE THE STABILIZED CONSTRUCTION ENTRANCES WHEN EXITING THE SITE. ALL COST FOR EROSION CONTROL AND RESTORATION WORK ASSOCIATED WITH THE APPROVED STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- TEMPORARY EROSION CONTROL MEASURES INCLUDE TEMPORARY DITCH CHECKS, PERIMETER EROSION BARRIER, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, AND ANY OTHER TEMPORARY EROSION CONTROL MEASURE NEEDED TO LIMIT THE AMOUNT OF SOIL EROSION AND SEDIMENTATION DURING CONSTRUCTION.
- AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED FROM THE SITE, AND BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR MUST STABILIZE ANY AREA DISTURBED BY THE REMOVAL OF EROSION CONTROL ITEMS.
- CONTRACTOR SHALL CLEAN ANY DEBRIS TRACKED OFFSITE DAILY.

SEEDING OF DISTURBED AREAS

- THE FINAL TOP 6" INCHES OF SOIL IN ANY DISTURBANCE AREA MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
- FERTILIZER HAVING AN ANALYSIS OF 10-10-10 SHALL BE APPLIED AT A RATE OF 90 LBS/ACRE TO ALL AREAS INDICATED ON THE PLANS AND INCORPORATED INTO THE SEEDBED PRIOR TO SOWING THE SEED.
- THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS ADJACENT TO IMPROVEMENTS WITH SEEDING (SEE PLANS) AND MULCH, IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION OR AS APPROVED BY THE ENGINEER.
- GUARANTEE: ALL SEEDED AREAS SHALL BE MAINTAINED AND MOWED FOR AT LEAST 30 DAYS AFTER GERMINATION. SCATTERED BARE SPOTS NO LARGER THAN TWO SQUARE FOOT WILL BE ALLOWED UP TO A MAXIMUM OF 5% OF ANY SEEDED AREA INCLUDING 30-DAY MAINTENANCE, MOWING AND WATERING AS NECESSARY.
- THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE ILLINOIS URBAN MANUAL, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTIONS, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.
- RESTORATION - THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION OF THE IMPROVEMENTS AND RELATED APPURTENANCES OR AS PART OF ANY OF THEIR ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION.

MATERIAL AND COMPACTION TESTING

- A GEOTECHNICAL REPRESENTATIVE WILL BE PROVIDED AND PAID FOR BY THE OWNER FOR ANY REQUIRED TESTING. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW AND MEET GUIDELINES SET BY THE GEOTECHNICAL REPRESENTATIVE.

UTILITIES

- UTILITIES SHOWN ON THE PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND NO GUARANTEE OF THEIR ACCURACY IS MADE OR INFERRED. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL-INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION INTO THE LOCATION, SIZE, DEPTH AND NATURE OF ANY AND ALL EXISTING UTILITIES THAT MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ANY AND ALL UTILITY COMPANIES REGARDING ADJUSTMENTS NECESSARY. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE AND CONSIDERED INCIDENTAL TO THE PROJECT COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND, OVERHEAD, OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER OR REPLACED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR MUST VERIFY AND LOCATE ALL EXISTING UTILITIES ON OR ADJACENT TO THE SITE. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTACT J.U.L.I.E. AT 1-800-892-0123 (OR 811) FOR EXACT FIELD LOCATION OF UTILITIES, DAMAGE, AND THE COST THEREOF, TO ANY AND ALL UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ENGINEER AND SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE EXISTING UTILITIES SHOWN HEREON.
- IF THERE ARE ANY UTILITIES WHICH ARE NOT MEMBERS OF THE J.U.L.I.E. SYSTEM, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THIS AND REQUESTING SAID UTILITIES TO FIELD VERIFY AND MARK PERTINENT UTILITY LOCATIONS.
- THE UTILITY LOCATIONS, DEPTHS, ETC. SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND SHALL BE VERIFIED BY THE CONTRACTOR WITH ALL AFFECTED UTILITY COMPANIES PRIOR TO INITIATING CONSTRUCTION OPERATIONS; THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR THE ADEQUACY, SUFFICIENCY OR EXACTNESS OF THESE UTILITY REPRESENTATIONS.
- THE CONTRACTOR SHALL CONTACT THE NECESSARY UTILITY COMPANIES FOR ANY UTILITY RELOCATIONS. THE CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH RELOCATION OF UTILITIES ON OR ADJACENT TO THE SUBJECT PROPERTY OR WITHIN THE ROAD RIGHT-OF-WAY.
- TRENCH BACKFILL SHALL BE FILL MATERIAL TYPE A (GRAVEL OR CA6 CRUSHED STONE.) OR TYPE C (SAND FA-1 OR SAND FA-2) IN ACCORDANCE WITH AASHTO T27 GUIDELINES AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS", CURRENT EDITION. COST SHALL BE INCLUDED IN UNIT PRICE OF PIPE.
- TRENCH BACKFILL SHALL BE USED IN LOCATIONS WHERE THERE IS AN EXISTING OR PROPOSED PERMANENT SURFACE.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION OR HAVE THE POTENTIAL FOR CREATING FUTURE PROBLEMS SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT AT AN APPROVED LOCATION OBTAINED BY THE CONTRACTOR, ACCORDING TO THE "STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS", CURRENT EDITION, AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ANY AND ALL FIELD TILES AND OR STORM SEWERS DAMAGED OR ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED, REPLACED AND/OR CONNECTED IMMEDIATELY BY THE CONTRACTOR. COST FOR SAID REPAIRS, REPLACEMENT, AND/OR CONNECTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GENERAL NOTES (1 OF 2)

SET TYPE: - - - - -
G:\C30\22\22-665\Plans\02 General Notes.dwg, 02 Gen Notes

JOB NUMBER:
22-665

SHEET NUMBER:
2 of 24

TRAFFIC CONTROL

1. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL TRAFFIC CONTROL ITEMS NECESSARY FOR THE CONSTRUCTION OF ITEMS WITH IN THE ROAD RIGHT-OF-WAY. ALL WORK PERFORMED SHALL HAVE TRAFFIC CONTROL IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
2. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT. ALL SIGNS SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
3. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN CONDITIONS MAY REQUIRE THE ENGINEER TO MODIFY THE LOCATION OF THE TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES OPEN TO TRAFFIC FROM DEBRIS BEING BLOWN OR OTHERWISE REMOVED FROM THE CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF THE ADJACENT TRAVELED LANE SURFACE. COST INCIDENTAL TO THE PROJECT.
4. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC AND STAGING OF CONSTRUCTION PLANS FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL PERFORM THE WORK UNDER STAGE CONSTRUCTION IN THE EVENT THAT THE CONTRACTOR WILL NEED TO CLOSE PUBLIC ROADS, CONTRACTOR SHALL SUBMIT PROPOSED DETOUR ROUTE AND ASSOCIATED SIGNAGE TO THE ENGINEER PRIOR TO COMMENCING WORK.
6. TRAFFIC CONTROL DEVICES, STREET NAME SIGNS, AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF URBANA ORDINANCES AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". LOCATIONS OF SIGNS AND MARKINGS SHALL BE SPECIFIED BY THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER.
7. PROVIDE TO THE ENGINEER AND THE OWNER THE NAME AND PHONE NUMBER OF INDIVIDUALS RESPONSIBLE FOR MAINTAINING TRAFFIC CONTROL MEASURES DURING CONSTRUCTION. THIS INDIVIDUAL SHALL BE AVAILABLE TO CORRECT TRAFFIC CONTROL PROBLEMS 24 HOURS PER DAY.
8. THE CONTRACTOR SHALL NOTIFY THE POST OFFICE, POLICE DEPARTMENT, FIRE DEPARTMENT, 911 DISPATCH CENTER, ILLINOIS DEPARTMENT OF TRANSPORTATION, STATE POLICE, APPROPRIATE SCHOOL DISTRICT AND THE LOCAL AGENCY A MINIMUM OF 5 DAYS PRIOR TO CLOSING ANY PORTION OF THE STREET OR ALLEY.

SUBGRADES, SUBBASES, AND BASE COURSES

1. THE CONTRACTOR WILL BE REQUIRED TO SUBSTANTIATE BASE COURSE THICKNESSES AND FINISH PAVEMENT THICKNESSES. THE ENGINEER SHALL INSPECT BASE COURSE COREOUT PRIOR TO PLACING BASE COURSE TO ENSURE REQUIRED BASE COURSE DEPTH IS PRESENT. IN ADDITION, THE ENGINEER AND/OR THE CITY ENGINEER SHALL WITNESS THE PLACEMENT OF BITUMINOUS BINDER AND SURFACE COURSE. CORE DRILLING MAY BE REQUIRED TO DEMONSTRATE THAT BASE COURSE AND PAVEMENT THICKNESSES CONFORM TO THE SPECIFICATIONS. PRIOR TO PLACING BASE COURSE MATERIAL, THE CONTRACTOR SHALL TEST ROLL THE SUBGRADE, IN THE PRESENCE OF THE ENGINEER OR HIS AGENT TO DEMONSTRATE THAT SAID SUBGRADE IS READY FOR BASE. PRIOR TO PLACEMENT OF THE BITUMINOUS SURFACE, THE SAME VERIFICATION PROCEDURE SHALL BE PERFORMED ON THE BASE COURSE MATERIAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO PERFORMING ANY OF THE REQUIRED TESTS SO THAT A REPRESENTATIVE MAY BE PRESENT.
2. PRIOR TO ANY EMBANKMENT OR ROAD BASE BEING PLACED, SHOULD IT BE DETERMINED BY THE ENGINEER THAT THE SUBGRADE MATERIAL IS UNSUITABLE ON WHICH TO CONSTRUCT THE ROADWAY STRUCTURE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING THE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACING SAME WITH STABILIZING SUBBASE CONSISTING OF SUBBASE GRANULAR MATERIAL, TYPE B IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION. TO HELP MINIMIZE THE AMOUNT OF SUBBASE MATERIAL INSTALLED FOR GROUND STABILIZATION, GEOTECHNICAL FABRIC MAY BE INSTALLED AS APPROVED BY THE ENGINEER. FABRIC SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 210 OF THE IDOT STANDARD SPECIFICATIONS. THE COARSE AGGREGATE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR SUBBASE GRANULAR MATERIAL, TYPE B. THE EXCAVATION AND DISPOSAL OF THE UNSUITABLE MATERIAL SHALL BE CONSIDERED INCIDENTAL TO SUBBASE GRANULAR MATERIAL, TYPE B. STABILIZING FABRIC SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.

EXCAVATION/EARTHWORK

1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. PRIOR TO STARTING EARTHWORK OR UTILITY TRENCHING, THE CONTRACTOR SHALL STRIP THE SITE OF TOPSOIL TO A DEPTH OF 6" AND TO THE LIMITS APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE STOCKPILED IN A REMOTE LOCATION OF THE SITE (APPROVED BY THE ENGINEER) UNTIL THE PLAN IMPROVEMENTS ARE COMPLETED AND THE EXCESS MATERIAL SPREAD AS DIRECTED. IT SHALL THEN BE THE RESPONSIBILITY OF THE CONTRACTOR TO SPREAD THIS TOPSOIL MATERIAL IN AREAS OF THE SITE, OVER AREAS WHERE EXCESS EXCAVATED MATERIAL, SAND, GRAVEL HAS BEEN SPREAD OR IN OTHER AREAS AS DESIGNATED BY THE ENGINEER. THE MATERIAL SHALL THEN BE COMPACTED TO A MINIMAL DEPTH OF 6" AND FINE GRADED IN A MANNER ACCEPTABLE TO THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
3. CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) REQUIREMENTS—"THE CONTRACTOR IS RESPONSIBLE FOR THE ASSESSMENT AND PROPER DISPOSAL OF ALL EXCESS SOIL AND SUBSURFACE MATERIALS THAT ARE NOT ABLE TO BE RE-USED ON THE PROJECT SITE AS SUITABLE CLEAN FILL. CONTRACTOR RESPONSIBILITY'S SHALL INCLUDE ALL REQUIRED SOIL SAMPLING, LABORATORY ANALYSIS, DISPOSAL PROFILING FEES, TRANSPORTATION, AND DISPOSAL TIPPING FEES AND SURCHARGES."
4. ALL EXCAVATIONS FOR STRUCTURES AND PIPE SHALL BE KEPT DEWATERED DURING CONSTRUCTION UNTIL BACKFILL IS IN PLACE. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. (COST INCIDENTAL)
5. EARTH EXCAVATION SHALL CONFORM TO SECTION 202 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION. THIS WORK SHALL INCLUDE THE EXCAVATION OF ALL MATERIALS TO DESIGN SUBGRADE ELEVATIONS INDICATED IN THE PLANS.

EXCAVATION/EARTHWORK

6. A SOIL REPORT CAN BE PROVIDED IN AN ELECTRONIC FORMAT TO THE CONTRACTOR UPON REQUEST FROM THE OWNER.
7. SHEETING AND SHORING SHALL BE CONSIDERED INCIDENTAL TO CONTRACT IF REQUIRED.
8. WHENEVER THE CONTRACTOR WORKS NEAR EXISTING FACILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS DURING TRENCHING OPERATIONS, HE WILL BE REQUIRED TO HAND TRENCH IN THAT AREA IN ORDER NOT TO DAMAGE THESE FACILITIES. PUSH HOLES AND SEARCH HOLES THAT ARE DUG BY THE CONTRACTOR SHALL BE BACKFILLED BY TAMPING THE EXCAVATED MATERIAL BACK IN PLACE TO KEEP SETTLEMENT TO A MINIMUM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
9. EMBANKMENT WORK SHALL CONSIST OF THE CONSTRUCTION OF EMBANKMENTS BY DEPOSITING, PLACING AND COMPACTING EARTH, STONE, GRAVEL OR OTHER MATERIALS OF ACCEPTABLE QUALITY ABOVE THE NATURAL GROUND OR OTHER SURFACE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
10. IN PROPOSED FILL AREAS FOR PAVEMENT AND EMBANKMENT, TOPSOIL AND TURF SHALL BE SCARIFIED AND REMOVED PRIOR TO CONSTRUCTING THE EMBANKMENT.

CONTRACT NO. 91616



ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
GENERAL NOTES (2 OF 2)

SET TYPE: — — — —
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JOB NUMBER:
22-665

SHEET NUMBER:
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ABBREVIATIONS

Table of abbreviations for civil engineering terms, including symbols like <, ABC, ACI, and descriptions such as ANGLE, AGGREGATE BASE COURSE, and ACRE(S).

Table of abbreviations for civil engineering terms, including symbols like PE, PI, PL, and descriptions such as POLYETHYLENE PIPE, POINT OF INTERSECTION, and PLATE.

HATCH PATTERNS table showing symbols for Earth - Fill, Brick, Steel, Insulation, etc.

SYMBOLS

Table of symbols for CIVIL, including EXISTING and PROPOSED symbols for Right-of-Way, Property Line, Centerline, etc.

Table of symbols for MISC, including EXISTING and PROPOSED symbols for Soil Boring Location, Monitoring Well, etc.

Table of symbols for SANITARY SEWER, including EXISTING and PROPOSED symbols for Sanitary Sewer, Sanitary Sewer Service, etc.

Table of symbols for WATER, including EXISTING and PROPOSED symbols for Water Service, Water Pipe, Fire Hydrant, etc.

Table of symbols for STORM SEWER, including EXISTING and PROPOSED symbols for Storm Sewer, Drain Tile, Ditch Line, etc.

Table of symbols for EROSION CONTROL, including EXISTING and PROPOSED symbols for Erosion Control Blanket, Seeding Area, etc.

Table of symbols for UTILITY, including EXISTING and PROPOSED symbols for Fiber Optic Line, Underground TV Cable, etc.

Table of symbols for TRAFFIC RELATED, including EXISTING and PROPOSED symbols for Controller, Mast Arm Assembly, Signal Head, etc.

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL logo and contact information.

OWNER/DEVELOPER: URBANA PARK DISTRICT 1011 KERR AVENUE URBANA, ILLINOIS 61802

PROJECT AND LOCATION: URBANA PRK DISTRICT CRYSTAL LAKE SHARED USE PATH URBANA, ILLINOIS

DRAWN BY: WKH APPROVED BY: COM DATE: TBD SCALE: AS NOTED

REVISIONS table with columns for REV. NO., DESCRIPTION, and DATE.

DRAWING: SHEET LEGEND SET TYPE: G:\C30\22\22-665\Plans\04 Legend.dwg, 04 Legend

JOB NUMBER: 22-665 SHEET NUMBER: 4 of 24

SUMMARY OF QUANTITIES

ITEM #	ITEM NAME	UNIT	TOTAL QUANTITY
Δ 20100500	TREE REMOVAL, ACRE	ACRE	0.25
20101000	TEMPORARY FENCE	FOOT	487
Δ * 20101200	TREE ROOT PRUNING	EACH	5
Δ * 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	10
* 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	5
* 20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	5
* 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	5
* 20101700	SUPPLEMENTAL WATERING	UNIT	1
20200100	EARTH EXCAVATION	CU YD	51
20400800	FURNISHED EXCAVATION	CU YD	77
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	168
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45
25100115	MULCH, METHOD 2	ACRE	0.75
25100630	EROSION CONTROL BLANKET	SQ YD	762
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50
28000400	PERIMETER EROSION BARRIER	FOOT	742
28000510	INLET FILTERS	EACH	2
28100107	STONE RIPRAP, CLASS A4	SQ YD	360
28200200	FILTER FABRIC	SQ YD	360
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SQ YD	350
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	1,020
* 42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	7,158
* 42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	501
42400800	DETECTABLE WARNINGS	SQ FT	30
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	56

* SEE SPECIAL PROVISIONS

CONTRACT NO. 91616

SUMMARY OF QUANTITIES

ITEM #	ITEM NAME	UNIT	TOTAL QUANTITY
44000600	SIDEWALK REMOVAL	SQ FT	3,757
50200100	STRUCTURE EXCAVATION	CU YD	36
50300225	CONCRETE STRUCTURES	CU YD	14.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	15
50300300	PROTECTIVE COAT	SQ YD	90
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,800
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	94
51202305	DRIVING PILES	FOOT	94
51203200	TEST FILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
60300305	FRAMS AND LIDS TO BE ADJUSTED	EACH	2
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	56
67100100	MOBILIZATION	L SUM	1
Δ 72000100	SIGN PANEL - TYPE 1	SQ FT	60.5
Δ 72900200	METAL POST - TYPE B	FOOT	55
Δ * 73000100	WOOD SIGN SUPPORT	FOOT	50
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	120
* K1004572	PRAIRIE SEEDING (SPECIAL)	ACRE	0.25
* X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	918
* X2500910	SEEDING, CLASS 1 (MODIFIED)	ACRE	0.50
* X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	0.25
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
* Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	71
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1

* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS



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 LAKE SHARED USE PATH
 URBANA, ILLINOIS

DRAWN BY: WKH
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 DATE: TBD
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REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
 SUMMARY OF QUANTITIES

SET TYPE: ---
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JOB NUMBER:
 22-665

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MISCELLANEOUS CONTINGENCY ITEMS				20101400 - NITROGEN FERTILIZER NUTRIENT	20101500 - PHOSPHORUS FERTILIZER NUTRIENT
	20101200 - TREE ROOT PRUNING	20101350 - TREE PRUNING (OVER 10 INCH DIAMETER)	20101700 - SUPPLEMENTAL WATERING	20101600 - POTASSIUM FERTILIZER NUTRIENT	30300112 - AGGREGATE SUBGRADE IMPROVEMENT, 12"
	EACH	EACH	UNIT	POUND	SQ YD
	5.0	10.0	1.0	5.0	350.0
TOTALS	5	10	1	5	350

EARTHWORK SCHEDULE									
LOCATION	STATION	TO STATION	21101505 TOPSOIL EXCAVATION (CU YD)	TOPSOIL PLACEMENT** (CU YD)	TOPSOIL WASTE** (CU YD)	20200100 EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE** (CU YD)	EMBANKMENT** (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)** (CU YD)
BROADWAY AVE	25+35	33+90	168	104	64	51	38	115	-77
		TOTALS	168	104	64	51	38	115	-77

20400800 FURNISHED EXCAVATION (CU YD) = 77

** NOT A PAY ITEM

TOPSOIL WASTE = TOPSOIL EXCAVATION - TOPSOIL PLACEMENT (NO SHRINKAGE FACTOR)

EARTHWORK BALANCE = EARTH EXCAVATION ADJUSTED FOR SHRINKAGE - EMBANKMENT

FURNISHED EXCAVATION = TOTAL SHORTAGE (-)

25% SHRINKAGE FACTOR ASSUMED

SEEDING SCHEDULE		K1004572 - PRAIRIE SEEDING (SPECIAL)	X2500910 - SEEDING, CLASS 1 (MODIFIED)	25100115 - MULCH METHOD 2	X2502024 - SEEDING, CLASS 4B (MODIFIED)	25100630 - EROSION CONTROL BLANKET	25000400 - NITROGEN FERTILIZER NUTRIENT	25000500 - PHOSPHORUS FERTILIZER NUTRIENT	25000600 - POTASSIUM FERTILIZER NUTRIENT
LOCATION	TO LOCATION	ACRE	ACRE	ACRE	ACRE	SQ YD	POUND	POUND	POUND
STA. 25+34.6	STA. 32+46.7	0.01	0.40	0.41	0.00	550	45	45	45
STA. 32+46.7	STA. 33+28.2	0.00	0.00	0.00	0.05	172	45	45	45
STA. 33+28.2	STA. 33+54.5	0.00	0.01	0.01	0.00	40	45	45	45
	SUB TOTALS	0.01	0.41	0.42	0.05	762	45	45	45
	TOTALS	0.25	0.50	0.75	0.25	762	45	45	45

72000100 SIGN PANEL - TYPE 1				72900200 - METAL POST - TYPE B	73000100 - WOOD SIGN SUPPORT
LOCATION	DESIGNATION	PANEL SIZE	SQ FT	FOOT	FOOT
29+50.4, 49.7' RT	W11-2	30"X30"	6.25		
29+50.4, 49.7' RT	W16-9P	24"X12"	2.00	15.0	0.0
30+69.4, 59.3' RT	W11-2	30"X30"	6.25		
30+69.4, 59.3' RT	W16-7P	24"X12"	2.00	15.0	0.0
30+71.5, 13' RT	W11-2	30"X30"	6.25		
30+71.5, 13' RT	W16-7P	24"X12"	2.00	15.0	0.0
32+28.1, 38.0' RT	W11-2	30"X30"	6.25		
32+28.1, 38.0' RT	W16-9P	24"X12"	2.00	0.0	0.0
32+34.1, 9.9' RT	W3-1	18"X18"	2.25	10.0	0.0
33+38.6, 10.4' LT	R9-6	12"X18"	1.50		
33+38.6, 10.4' LT	R5-3	24"X24"	4.00	0.0	13.0
33+47.1, 8.8' RT	R1-1	18"X18"	2.25	0.0	11.0
33+52.9, 10.2' LT	W11-15	30"X30"	6.25		
33+52.9, 10.2' LT	W16-7P	24"X12"	2.00	0.0	13.0
33.55.1, 58.0' LT	W11-15	30"X30"	6.25		
33.55.1, 58.0' LT	W11-15P	24"X18"	3.00	0.0	13.0
	TOTAL		60.5	55.0	50.0

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FEHR GRAHAM
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ILLINOIS DESIGN FIRM NO. 184-003525
ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
SCHEDULE OF QUANTITIES (1 OF 2)
SET TYPE: _____
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JOB NUMBER:
22-665
SHEET NUMBER:
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20100500 - TREE REMOVAL, ACRE		
STATION	TO STATION	ACRE
32+47.0	33+32.0	0.06
SUBTOTAL		0.06
ROUNDED TOTAL		0.25

20101000 - TEMPORARY FENCE	
LOCATION	FOOT
26+49 17.2' LT	78
28+99 13.5' LT	105
33+36 36.5' LT	153
31+44 17.3' LT	151
TOTAL	487

28000400 - PERIMETER EROSION BARRIER		
STATION	TO STATION	FOOT
STA. 25+34.6	STA. 32+46.7	718
STA. 32+46.7	STA. 33+28.2	0
STA. 33+28.2	STA. 33+54.5	24
TOTAL		742

28000510 - INLET FILTERS	
LOCATION	EACH
29+02.3 10.8' RT	1
33+51.7 18.8' RT	1
TOTAL	2

78000600 - THERMOPLASTIC PAVEMENT MARKING - LINE 12"	
LOCATION	FT
PARK ENTRANCE	120.0
TOTAL	120

60300305 - FRAMES AND LIDS TO BE ADJUSTED	
LOCATION	EACH
29+59 10' LT	1
29+70 0' LT	1
TOTAL	2

35101600 - AGGREGATE BASE COURSE, TYPE B 4"		
STATION	TO STATION	SQ YD
25+34.6	32+46.7	984
33+28.2	33+54.5	36
TOTAL		1,020

42400300 - PCC SIDEWALK 6 INCH		
STATION	TO STATION	SQ FT
25+34.6	32+46.7	6886.0
33+28.2	33+54.5	272.0
TOTAL		7,158

42000410 - PCC PAVEMENT 8 INCH		
STATION	TO STATION	SQ YD
25+34.6	32+46.7	501.0
TOTAL		501

42400800 - DETECTABLE WARNINGS	
LOCATION	SQ FT
BROADWAY AVE	10
PARK ENTRANCE	20
TOTAL	30

44000500 - COMBINATION CURB AND GUTTER REMOVAL	
LOCATION	FOOT
BROADWAY AVE	20.0
PARK ENTRANCE	36.0
TOTAL	56

44000600 - SIDEWALK REMOVAL		
STATION	TO STATION	SQ FT
25+34.6	32+46.7	3,688.0
33+28.2	33+54.5	69.0
TOTAL		3,757

60604400 - COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	
LOCATION	FOOT
BROADWAY AVE	20.0
PARK ENTRANCE	36.0
TOTAL	56

CONTRACT NO. 91616

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

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URBANA, ILLINOIS 61802

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LAKE SHARED USE PATH
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DRAWN BY: WKH
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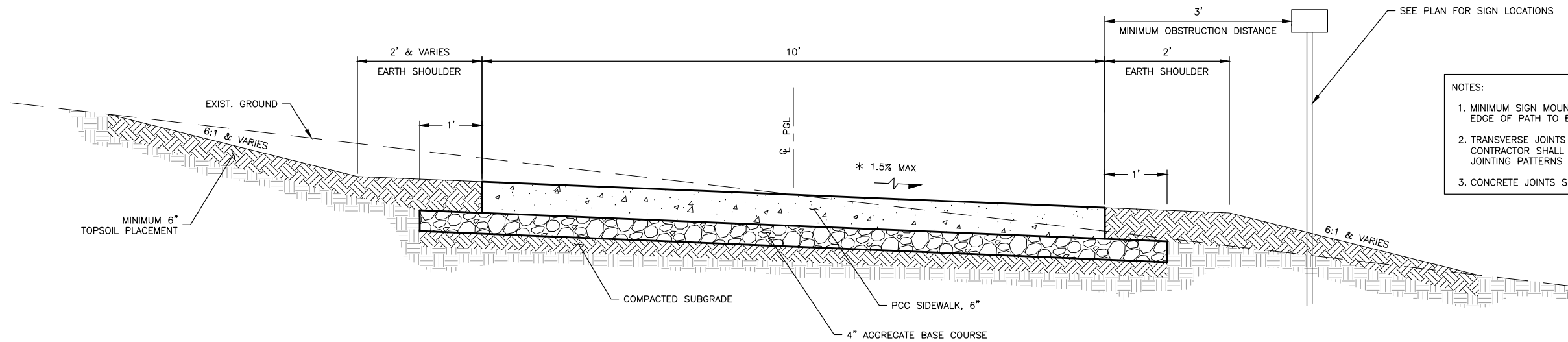
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SCHEDULE OF QUANTITIES (2 OF 2)

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JOB NUMBER:
22-665

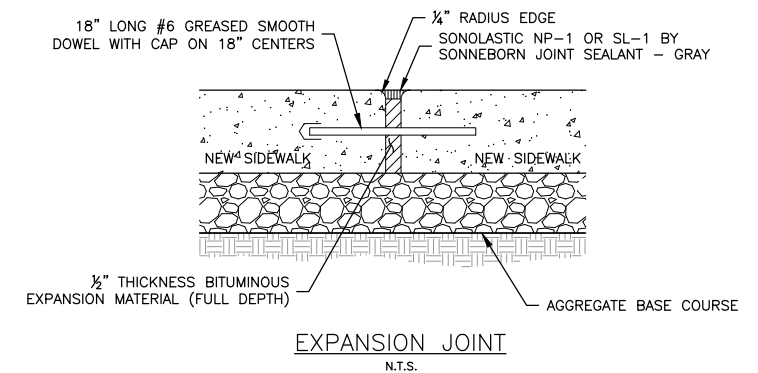
SHEET NUMBER:
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* SEE CROSS SECTIONS FOR DIRECTION OF SLOPE



- NOTES:
1. MINIMUM SIGN MOUNTING HEIGHT IS 4 FT FROM GRADE AT EDGE OF PATH TO BOTTOM OF SIGN.
 2. TRANSVERSE JOINTS SHALL NOT EXCEED 10' SPACING. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR ALL JOINTING PATTERNS FOR APPROVAL BY THE ENGINEER.
 3. CONCRETE JOINTS SHALL BE SAWED, 1/8" WIDE, 2" DEPTH

TYPICAL SECTION



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DATE: TBD
SCALE: AS NOTED

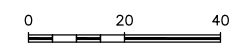
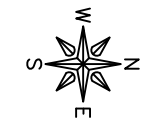
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
TYPICAL SECTIONS

SET TYPE: _____
G:\C30\22\22-665\Plans\08 Typical Sections.dwg, 08 Typ Sections

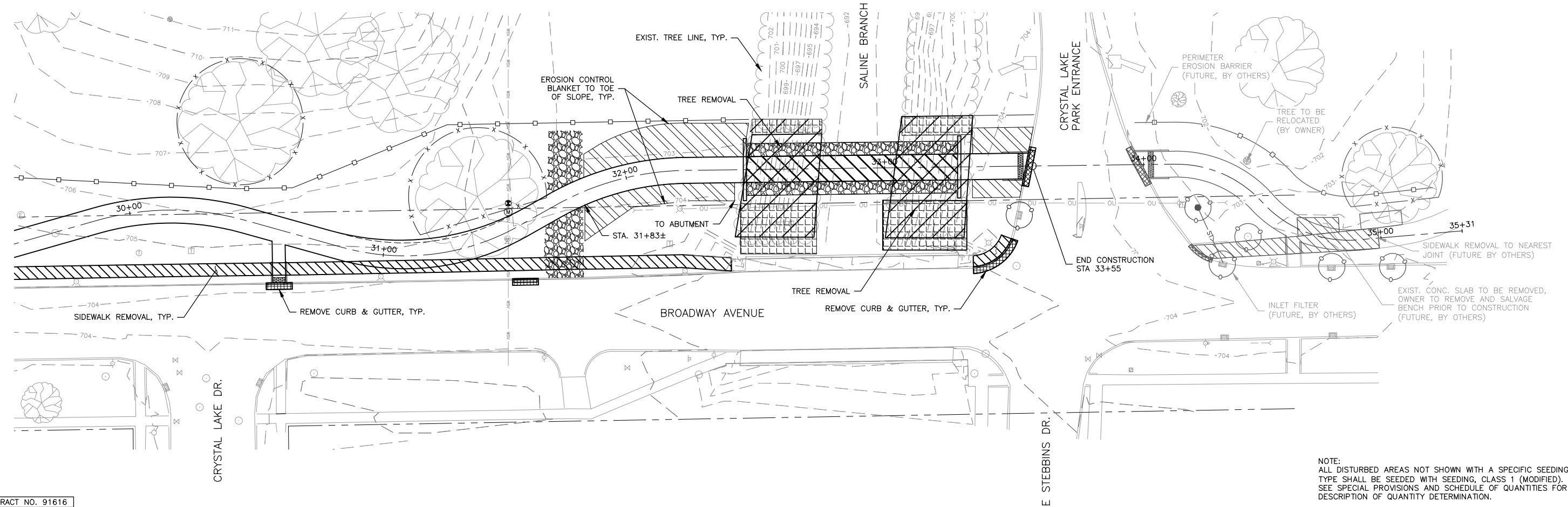
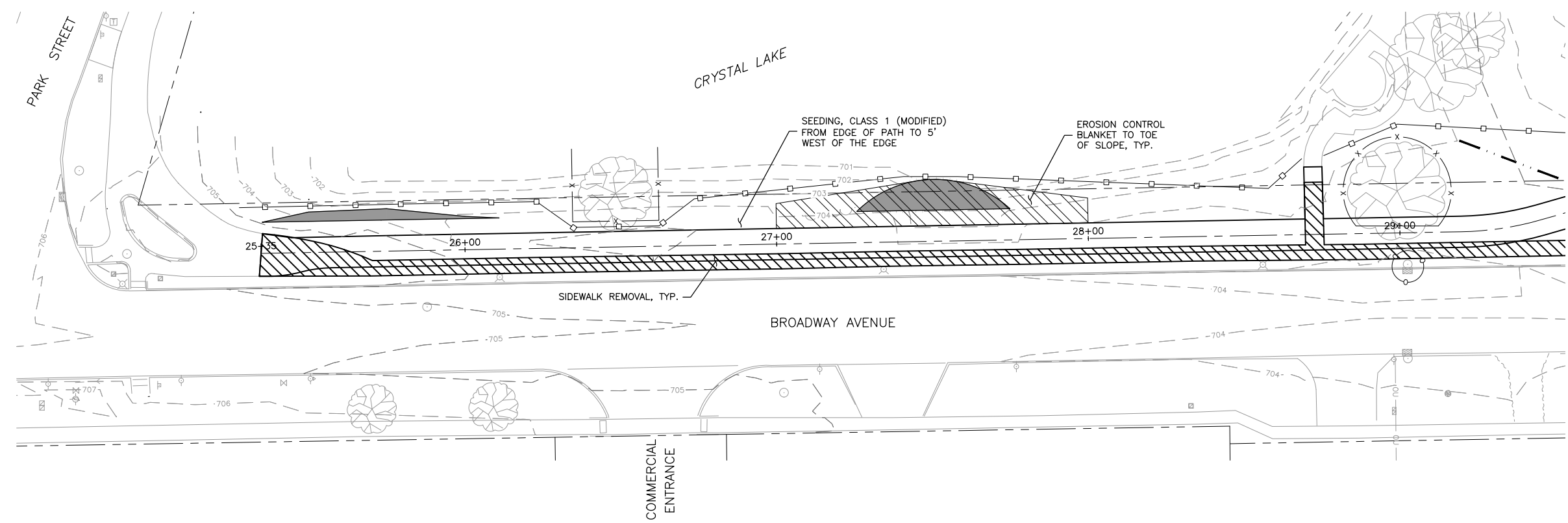
JOB NUMBER:
22-665

SHEET NUMBER:
8 of 24



LEGEND

- SIDEWALK REMOVAL
- PAVEMENT & CURB & GUTTER REMOVAL
- INLET FILTER
- PERIMETER EROSION BARRIER
- TREE PROTECTION/TEMPORARY FENCE
- TREE REMOVAL - ACRE
- EROSION CONTROL BLANKET
- PRAIRIE SEEDING (SPECIAL)
- SEEDING, CLASS 4B (MODIFIED) AND EROSION CONTROL BLANKET



NOTE:
 ALL DISTURBED AREAS NOT SHOWN WITH A SPECIFIC SEEDING TYPE SHALL BE SEEDING WITH SEEDING, CLASS 1 (MODIFIED). SEE SPECIAL PROVISIONS AND SCHEDULE OF QUANTITIES FOR DESCRIPTION OF QUANTITY DETERMINATION.

CONTRACT NO. 91616

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
 IOWA
 WISCONSIN

OWNER/DEVELOPER:
 URBANA PARK DISTRICT
 1011 KERR AVENUE
 URBANA, ILLINOIS 61802

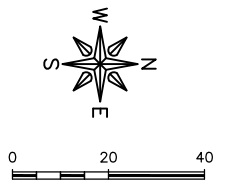
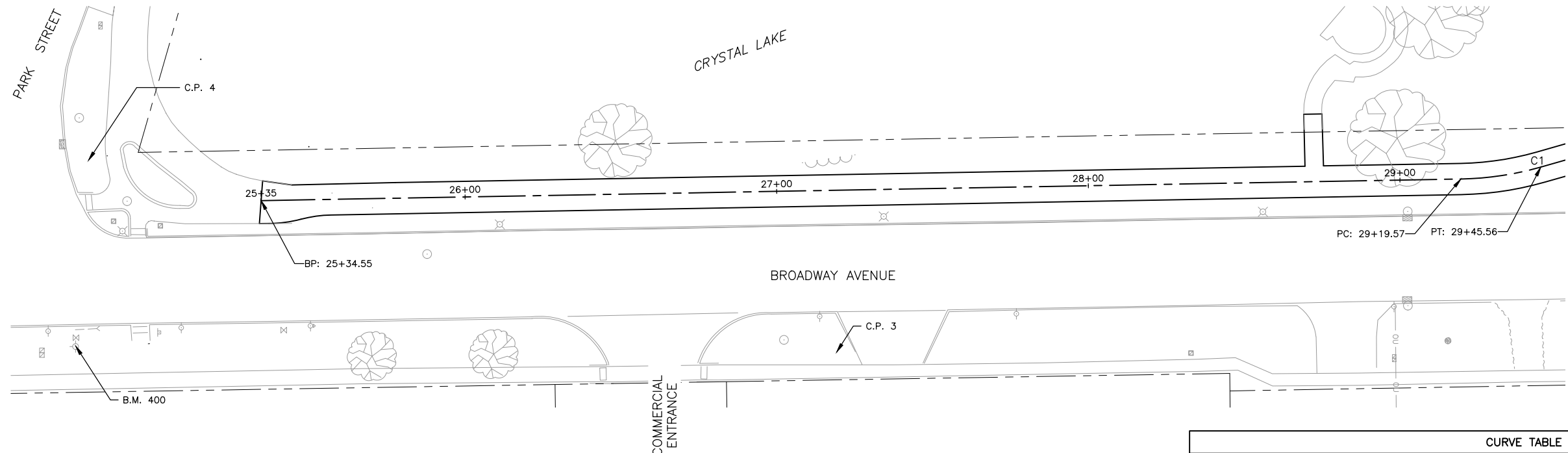
PROJECT AND LOCATION:
 URBANA PRK DISTRICT CRYSTAL LAKE SHARED USE PATH
 URBANA, ILLINOIS

DRAWN BY: WKH
 APPROVED BY: COM
 DATE: TBD
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
REMOVALS & SWPP PLAN
 SET TYPE: _____
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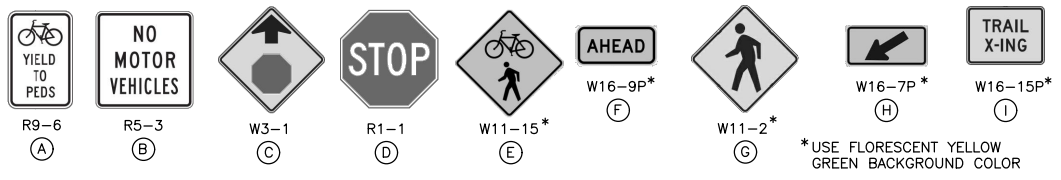
JOB NUMBER:
22-665
 SHEET NUMBER:
9 of 24



- B.M. 400
TOP FLANGE NUT OF FIRE HYDRANT LOCATED ON THE EAST SIDE OF BROADWAY AVENUE, 45 FEET NORTH OF THE CENTERLINE OF PARK STREET.
ELEV. 708.10
- C.P. 1
5/8" IRON PIN WITH FEHR-GRAHAM CONTROL CAP.
ELEV. 704.48
N = 1,257,575.6548, E = 1,019,435.0369
- C.P. 2
5/8" IRON PIN WITH FEHR-GRAHAM CONTROL CAP.
ELEV. 705.11
N = 1,257,231.4792, E = 1,019,390.7877
- C.P. 3
5/8" IRON PIN WITH FEHR-GRAHAM CONTROL CAP.
ELEV. 705.11
N = 1,256,911.9652, E = 1,019,452.7854
- C.P. 4
5/8" IRON PIN WITH FEHR-GRAHAM CONTROL CAP.
ELEV. 706.02
N = 1,256,671.9086, E = 1,019,391.3192

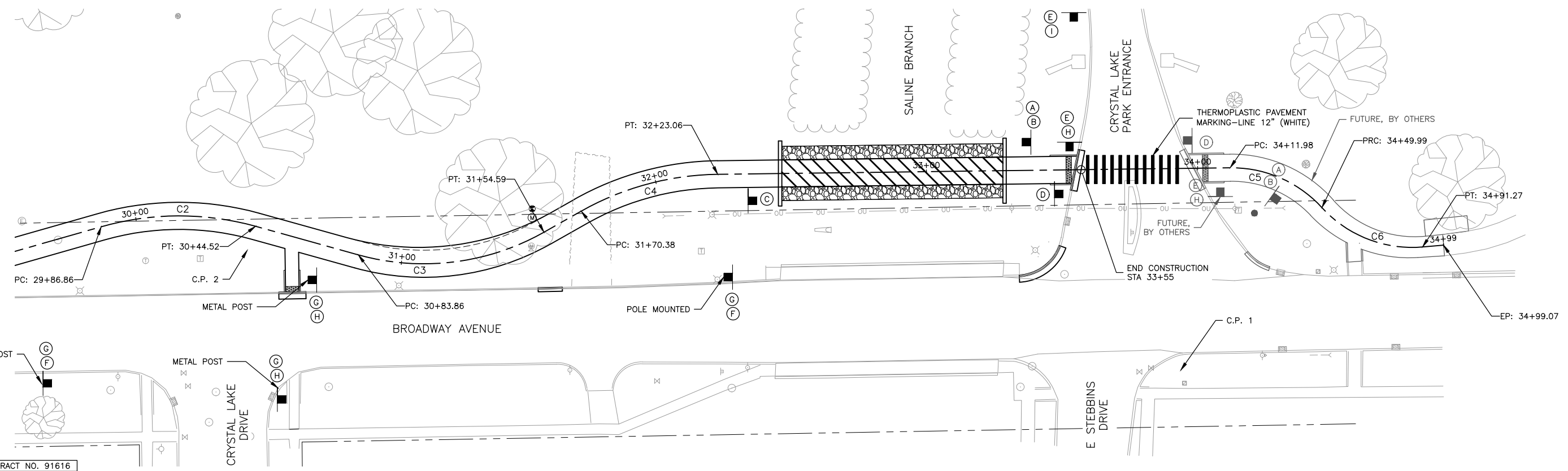
CURVE TABLE										
CURVE #	R	L	T	Δ	CHORD	BEARING	E	PC STA	PI STA	PT STA
C1	100.00	25.99	13.07	014°52'20"	25.91	N01°01'56"W	0.84	29+19.57	29+36.64	29+45.56
C2	105.00	57.67	29.58	031°28'07"	56.95	N15°55'16"W	3.93	29+86.86	30+16.44	30+44.52
C3	90.00	70.72	37.30	045°01'22"	68.92	N15°32'51"E	6.86	30+83.86	31+21.16	31+54.59
C4	105.00	52.68	26.90	028°44'38"	52.13	N29°28'31"W	3.29	31+70.38	31+97.29	32+23.06
C5	45.00	38.01	20.22	048°23'22"	36.89	N00°43'54"W	3.95	34+11.98	34+32.20	34+49.99
C6	45.00	41.29	22.22	052°33'59"	39.85	N47°39'29"E	4.65	34+49.99	34+72.21	34+91.27

SIGNING LEGEND



NOTE:
ALL SIGNS SHALL BE MOUNTED ON WOOD SIGN SUPPORTS IN ACCORDANCE WITH THE SPECIAL PROVISIONS UNLESS NOTED OTHERWISE. SEE SCHEDULES FOR ADDITIONAL INFORMATION.

*USE FLORESCENT YELLOW GREEN BACKGROUND COLOR



CONTRACT NO. 91616

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

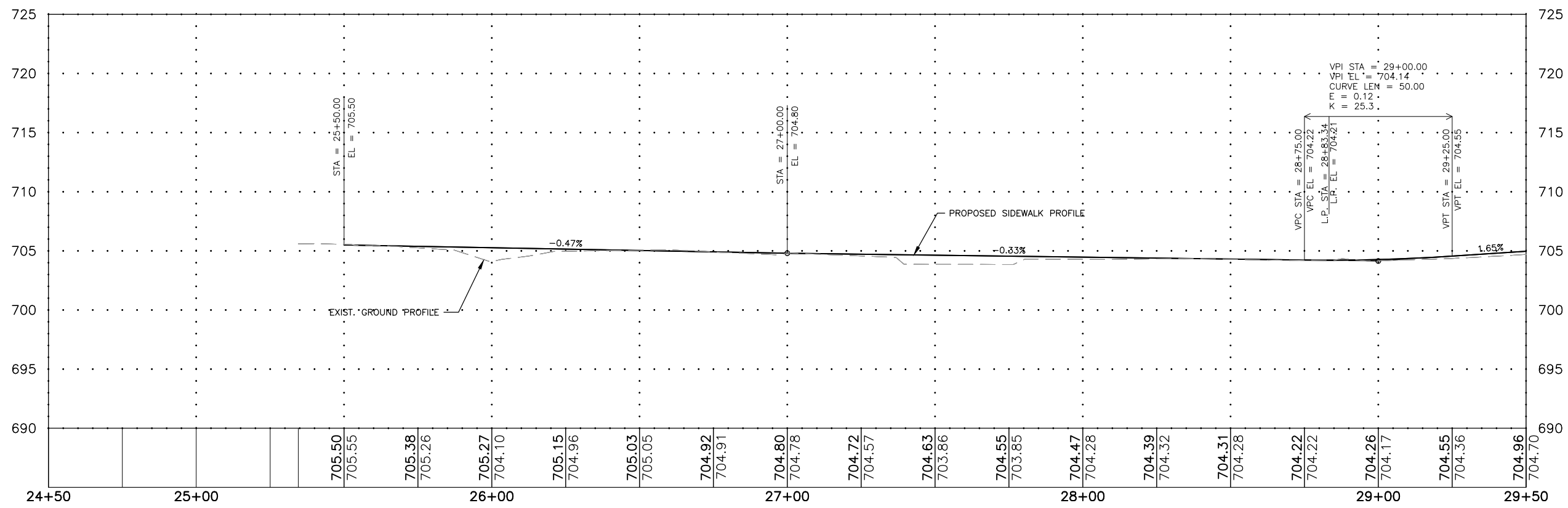
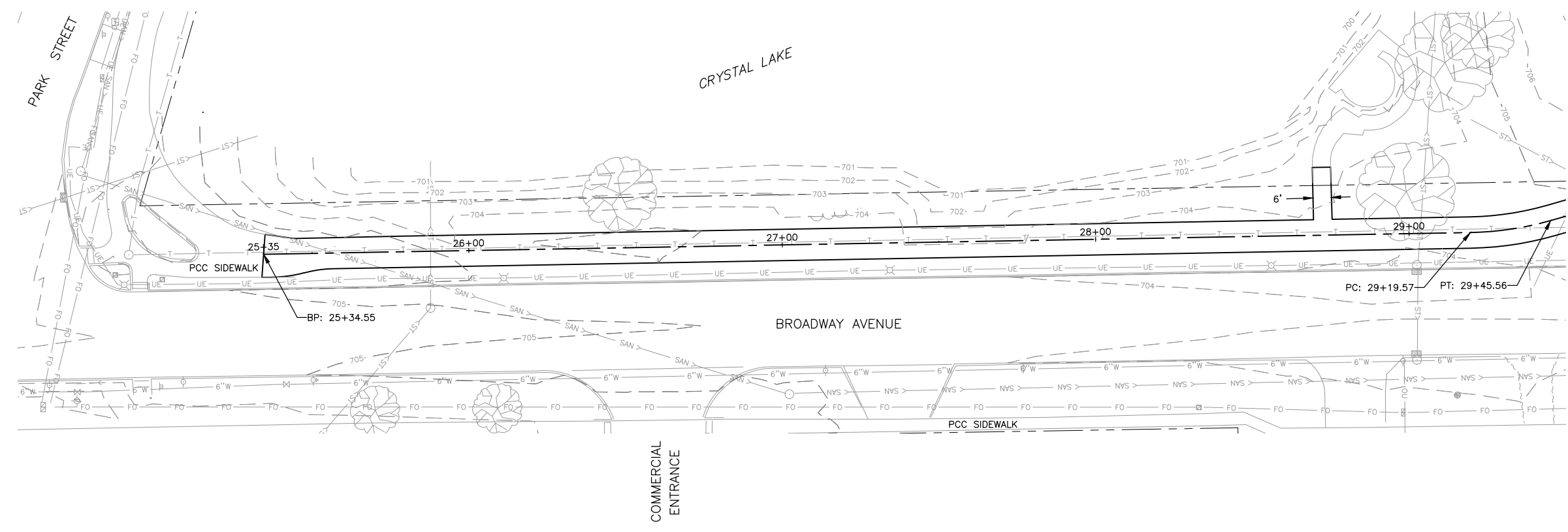
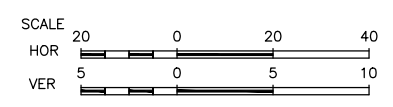
DRAWING:
HORIZONTAL CONTROL, SIGNAGE, & PAVEMENT MARKINGS PLAN

SET TYPE: _____

G:\C30\22-665\Plans\10 Horiz Control.dwg, 10 Hz Control

JOB NUMBER:
22-665

SHEET NUMBER:
10 of 24



CONTRACT NO. 91616

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

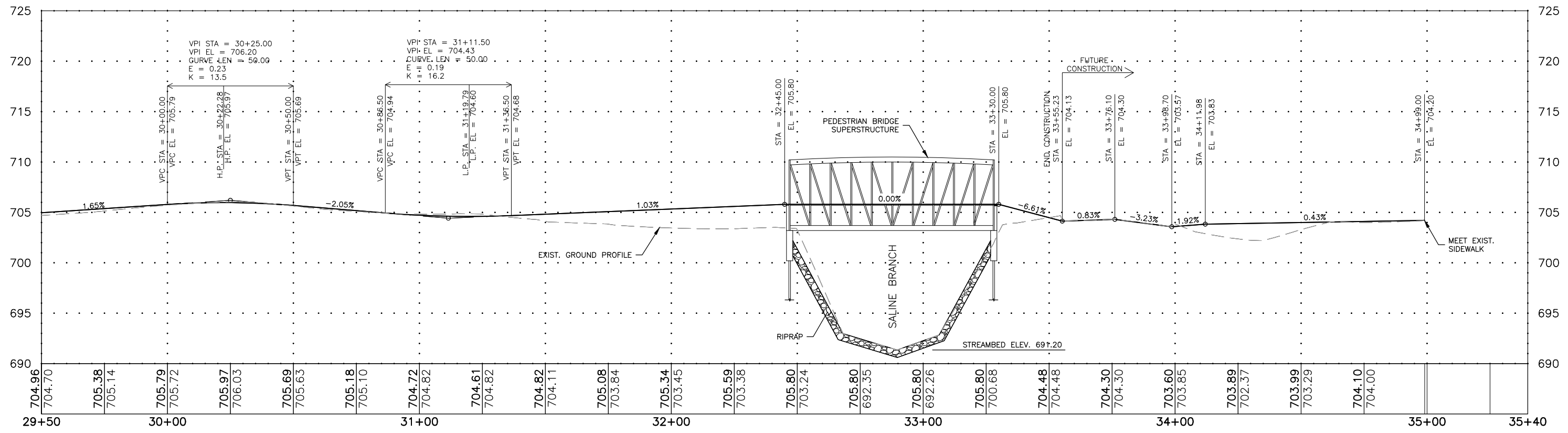
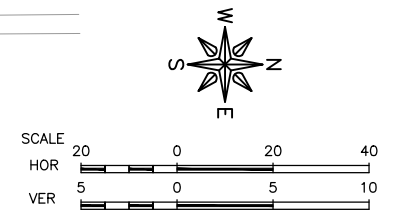
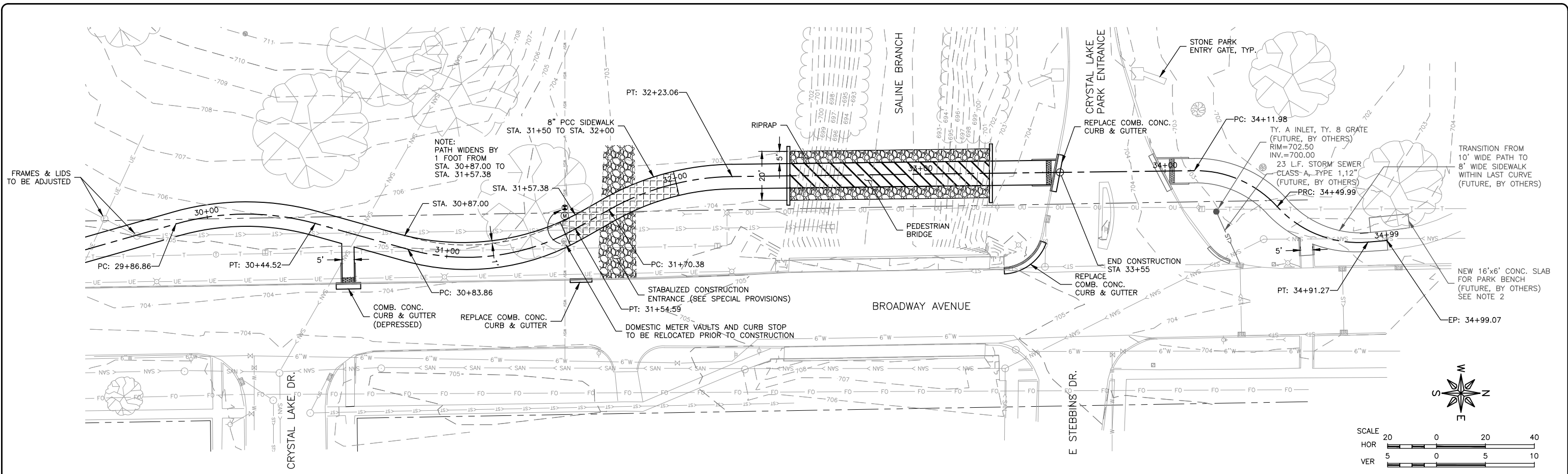
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PLAN & PROFILE (STA 25+00 TO STA
29+50)

SET TYPE: _____

G:\C30\22\22-665\Plan\11 Plan Profile.dwg, P&P 2500-2950

JOB NUMBER:
22-665

SHEET NUMBER:
11 of 24



CONTRACT NO. 91616

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

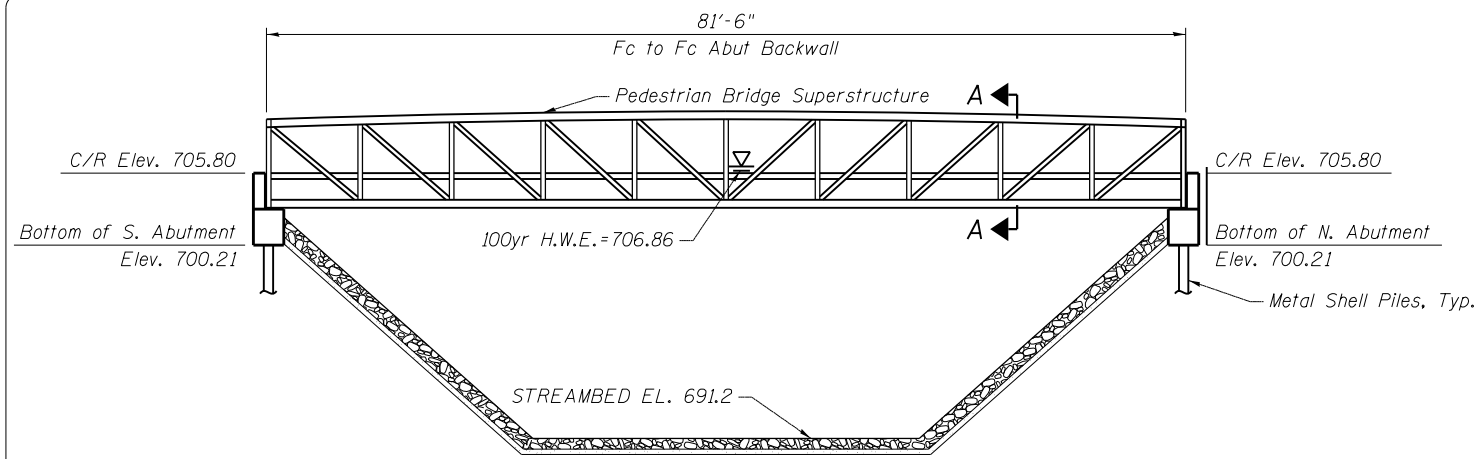
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN & PROFILE (STA 29+50 TO STA 34+00)

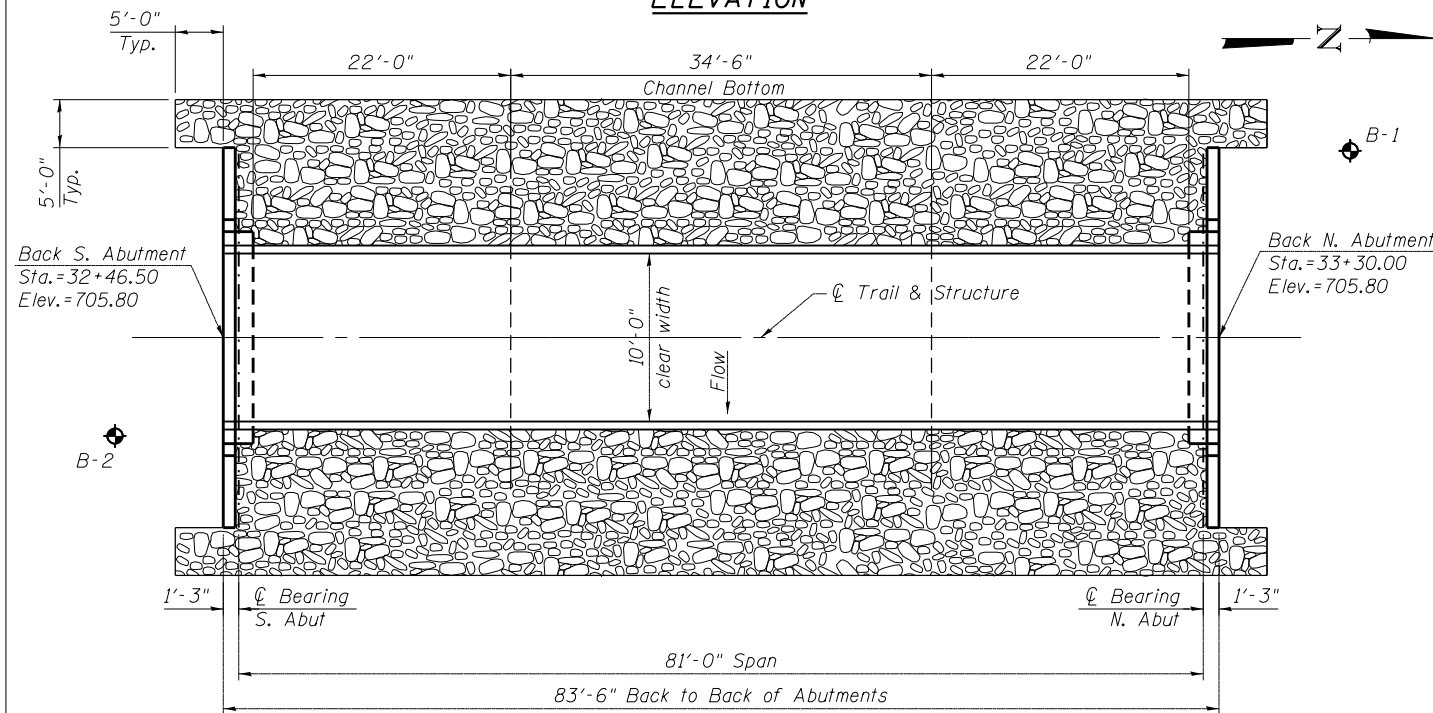
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JOB NUMBER:
22-665

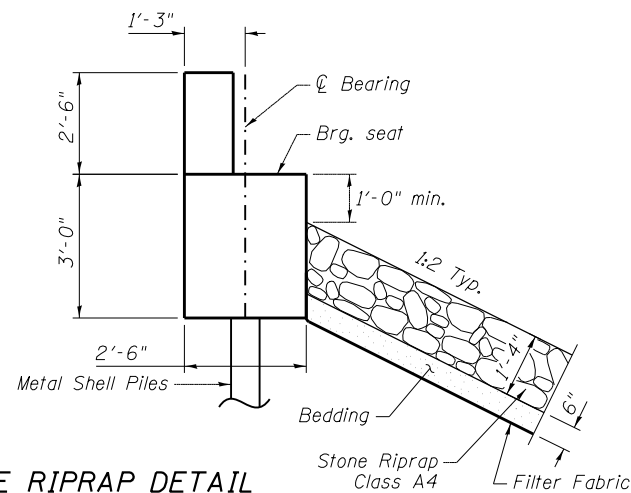
SHEET NUMBER:
12 of 24



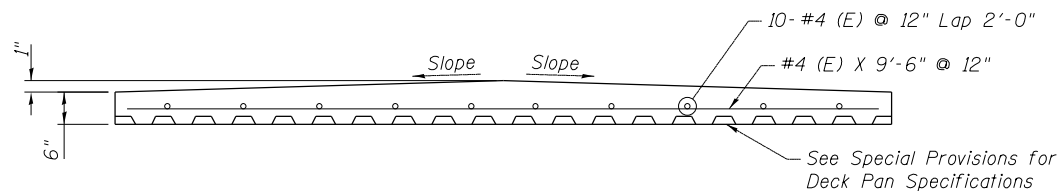
ELEVATION



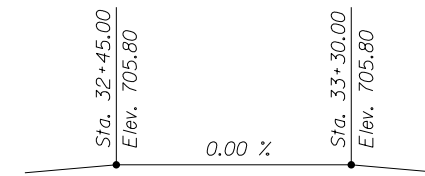
PLAN



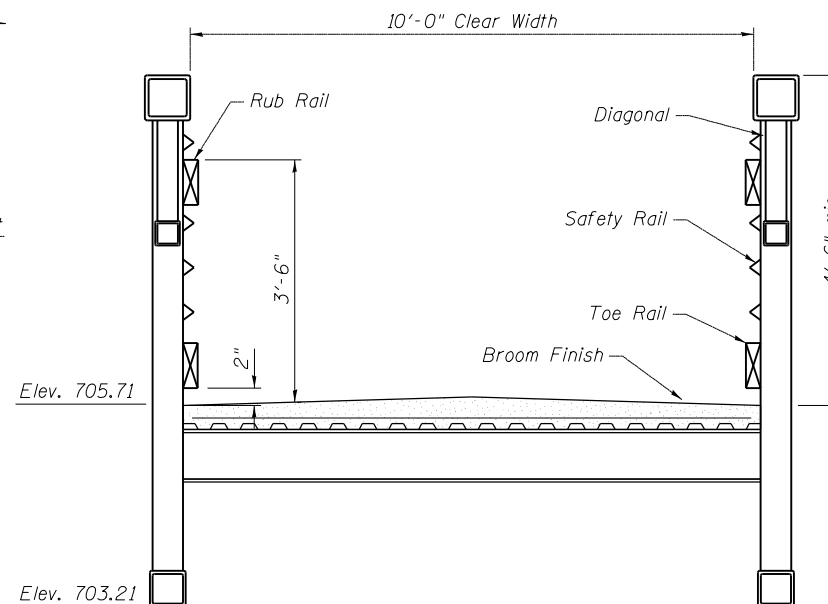
STONE RIPRAP DETAIL AT ABUTMENT



BRIDGE DECK



PROFILE GRADE (At Centerline Trail)



SECTION A-A

GENERAL NOTES

Superstructure shall be a Modified Bow truss with a concrete deck. The manufacturer to be approved by the Engineer. See Special Provisions.
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied in the field to suit ground conditions in the field as directed by the Engineer.
 The pedestrian truss fabrication will strictly adhere to the low beam, profile grade and other constraints of the design plans.
 All work shall be according to the Illinois Department of Transportation (IDOT) Standard specifications for Road and Bridge Construction adopted January 1, 2022
 Reinforcement in deck to be verified with Bridge Manufacturer

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition

DESIGN LOADING

Pedestrian Live Load (PL) 90 psf or an H-10 Truck

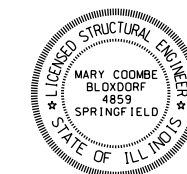
DESIGN STRESSES

FIELD UNITS

$f_c=4,000$ (superstructure)
 $f_c=3,500$ psi (substructure)
 $f_y=60,000$ psi (reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		360	360
Filter Fabric	Sq. Yd.		360	360
Structure Excavation	Cu. Yd.		36	36
Concrete Structures	Cu. Yd.		14.6	14.6
Concrete Superstructure	Cu. Yd.	15.0		15.0
Protective Coat	Sq. Yd.	90		90
Reinforcement Bars, Epoxy Coated	Pound	1080	2720	3800
Pedestrian Truss Superstructure	Sq. Ft.	918		918
Name Plates	Each	1		1
Furnishing Metal Shell Piles, 12" x 0.25"	Foot		94	94
Driving Piles	Foot		94	94
Test Pile Metal Shells	Each		2	2



I certify to the best of my knowledge, information and belief, this bridge substructure design is structurally adequate for the Design Loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the LRFD Guide Specifications for Design of Pedestrian Bridges.

Mary Coombe Bloxdorf

ILLINOIS STRUCTURAL NO. 081-004859
 EXPIRES 11/30/2022
 DATE: 10/28/2022

**GENERAL PLAN AND ELEVATION
 PEDESTRIAN BRIDGE OVER
 SALINE BRANCH
 CRYSTAL LAKE MULTI-USE TRAIL
 URBANA, IL**

CONTRACT NO. 91616

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
 IOWA
 WISCONSIN

OWNER/DEVELOPER:
 URBANA PARK DISTRICT
 1011 KERR AVENUE
 URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
 URBANA PARK DISTRICT
 CRYSTAL LAKE SHARED USE PATH
 URBANA, ILLINOIS

DRAWN BY: MCE
 APPROVED BY: MCB
 DATE: 10/28/22
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

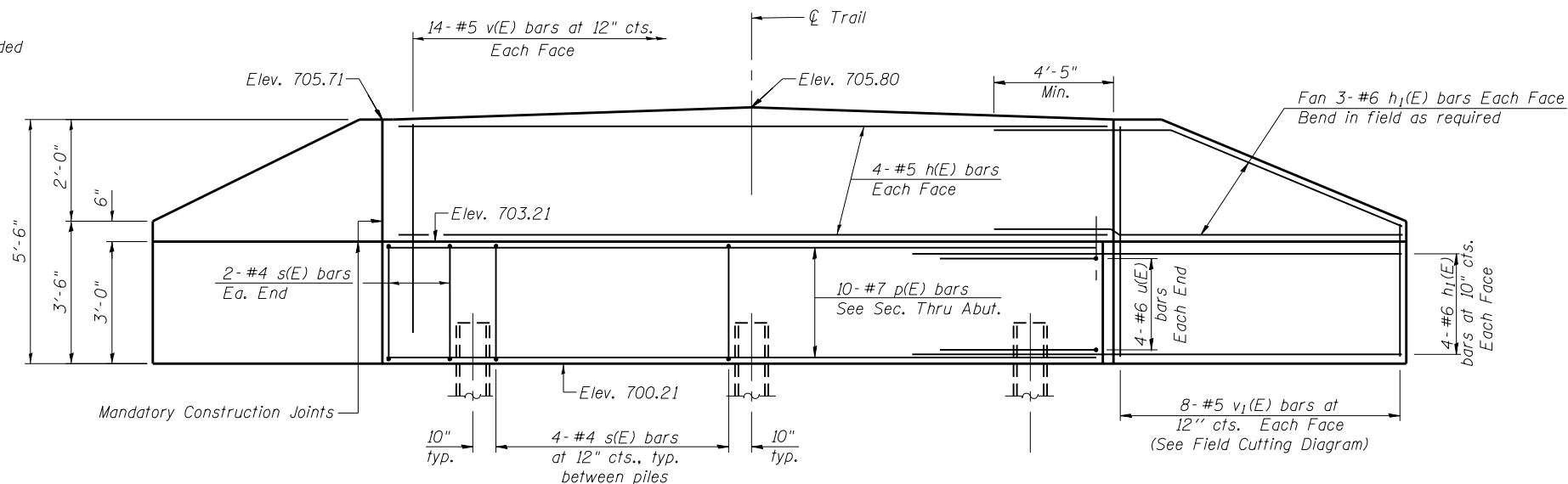
DRAWING:
 PEDESTRIAN BRIDGE GENERAL PLAN &
 ELEVATION

SET TYPE:
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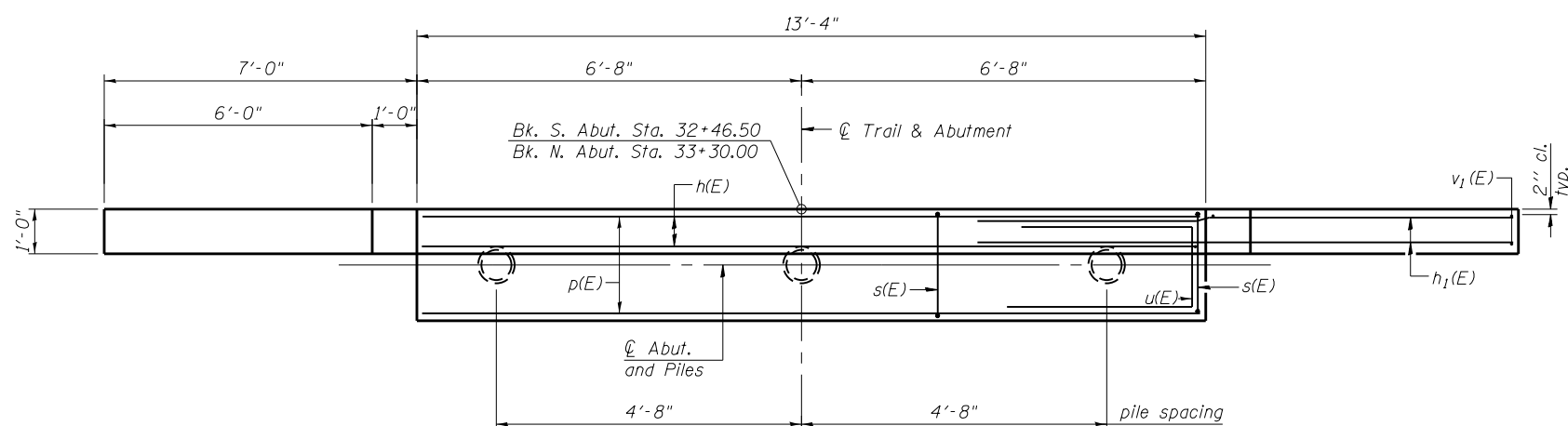
JOB NUMBER:
 22-665

SHEET NUMBER:
 13 of 24

Note:
Space reinforcement in cap to miss anchor bolt locations as provided by truss manufacturer.



ELEVATION



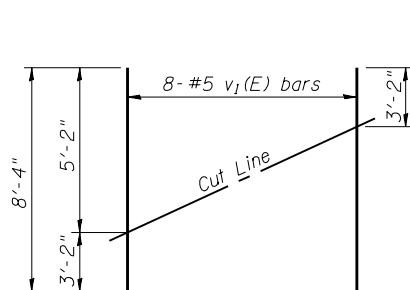
PLAN

*ABUTMENTS REACTION TABLE

	P (Pounds)	H (Pounds)	L (Pounds)
Dead Load	16,975	-	-
Uniform Live Load	18,000	-	-
Vehicle Load	10,000	-	-
Wind Uplift Windward	-6,600	-	-
20 PSF Leeward	-2,200	-	-
Wind	±2,990	8,460	-
Thermal			2,550

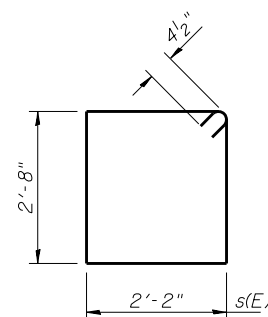
"-" - Denotes upward load
 "P" - Vertical Load at Each Base Plate (4 per Bridge)
 "H" - Horizontal Load at Each Footing (2 per Bridge)
 "L" - Longitudinal Load at Each Bearing

Note:
Reactions shown are due to service loads. Combine reactions per governing design code as required.

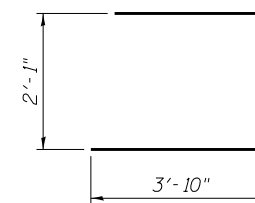


FIELD CUTTING DIAGRAM

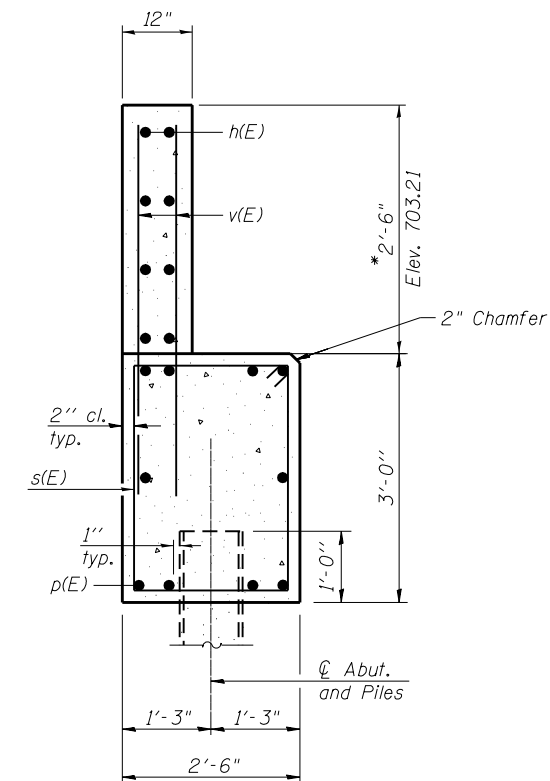
Order v1(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s(E)



BAR u(E)



SEC. THRU ABUT.

TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#5	13'-0"	—
h1(E)	56	#6	12'-0"	—
p(E)	20	#7	13'-0"	—
s(E)	24	#4	10'-5"	□
u(E)	16	#6	9'-9"	⊏
v(E)	56	#5	4'-10"	—
v1(E)	32	#5	8'-4"	—
Structure Excavation		Cu. Yd.	36	
Concrete Structures		Cu. Yd.	14.6	
Reinforcement Bars, Epoxy Coated		Pound	2720	
Furnishing Metal Shell Piles, 12" x 0.250"		Foot	94	
Driving Piles		Foot	94	
Test Pile, Metal Shell		Each	2	

For pile details, see sheet 15 of 24.

* Verify with truss superstructure design prior to construction of the substructure.

N. ABUTMENT
PILE DATA

Type: Metal Shell Piles, 12" dia. x 0.250" walls
 Nominal Required Bearing: 174 kips
 Factored Resistance Available: 48 kips
 Est. Length: **27'
 No. Production Piles: 2
 No. Test Piles: 1

S. ABUTMENT
PILE DATA

Type: Metal Shell Piles, 12" dia. x 0.250" walls
 Nominal Required Bearing: 183 kips
 Factored Resistance Available: 48 kips
 Est. Length: **20'
 No. Production Piles: 2
 No. Test Piles: 1

** The piles shall be driven to a minimum tip elevation of 680.00

CONTRACT NO. 91616

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PARK DISTRICT
CRYSTAL LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: MCE
APPROVED BY: MCB
DATE: 10/28/22
SCALE: AS NOTED

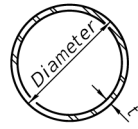
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PEDESTRIAN BRIDGE ABUTMENTS

SET TYPE:
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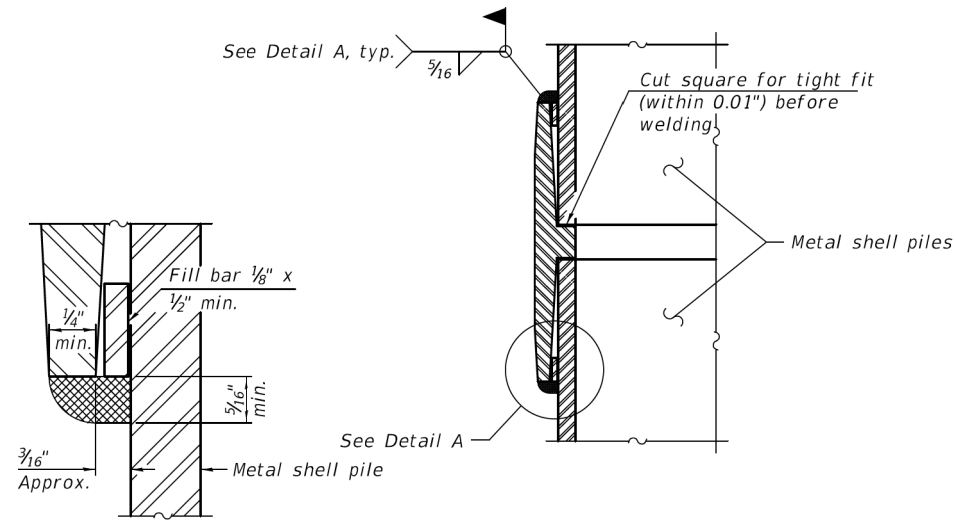
JOB NUMBER:
22-665

SHEET NUMBER:
14 of 24

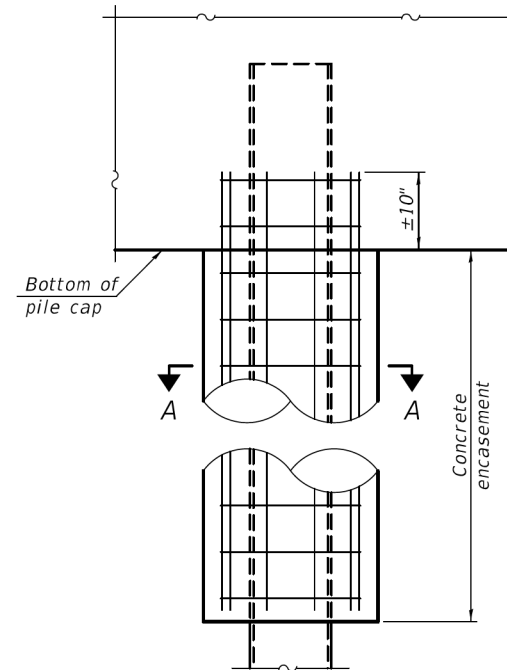


METAL SHELL PILE TABLE

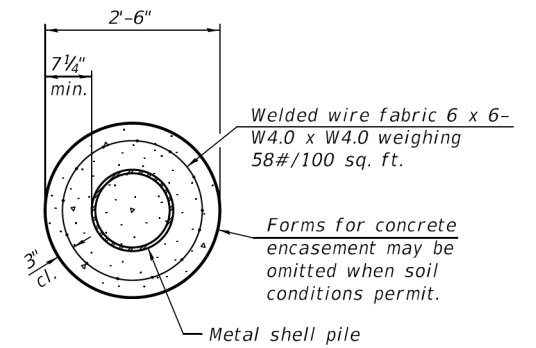
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

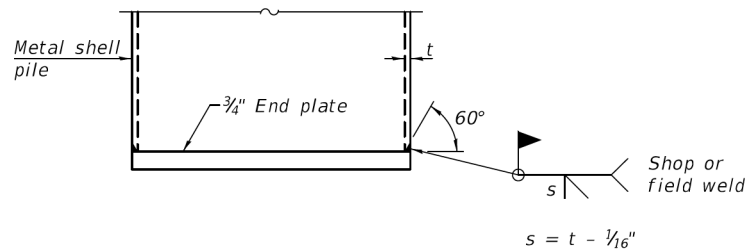


ELEVATION



SECTION A-A

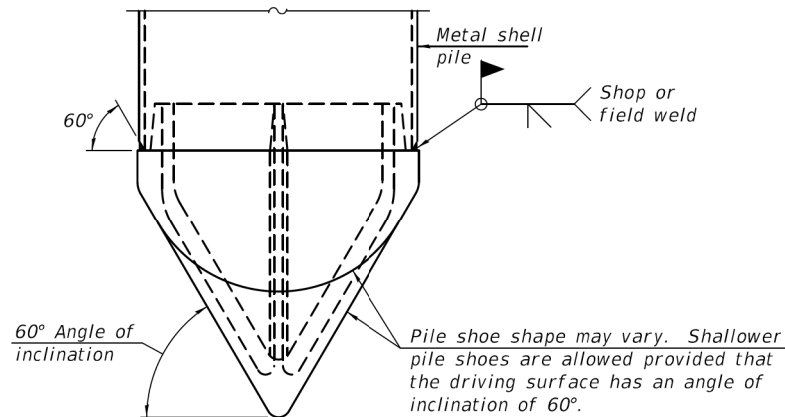
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)



END PLATE ATTACHMENT

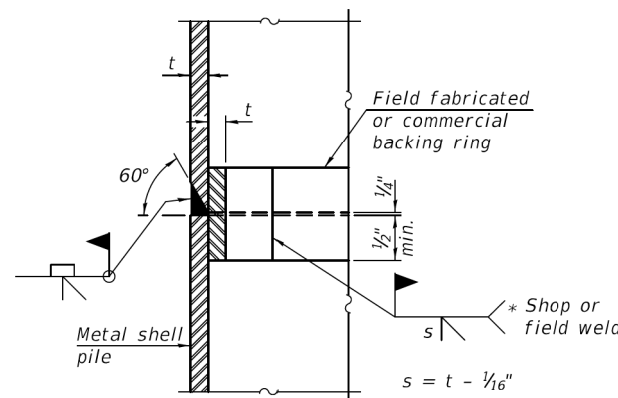
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



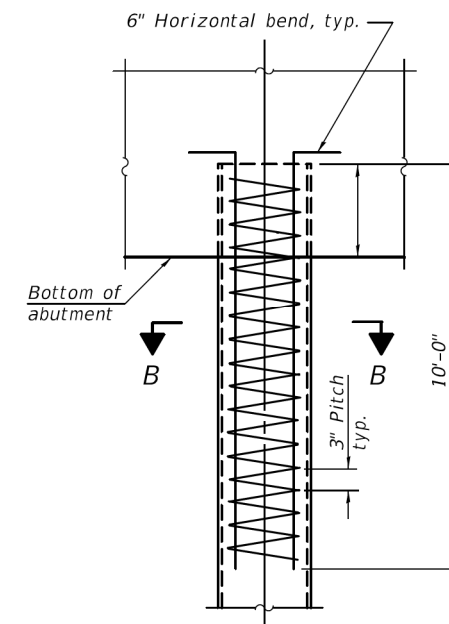
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

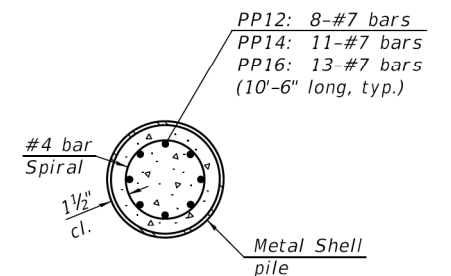


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

CONTRACT NO. 91616

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PARK DISTRICT
CRYSTAL LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: MCE
APPROVED BY: MCB
DATE: 10/28/22
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PEDESTRIAN BRIDGE METAL SHELL PILE
DETAILS

SET TYPE:
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JOB NUMBER:
22-665

SHEET NUMBER:
15 of 24

SOIL BORING LOG

Project Name: Crystal Lake Shared Use Path, Phase II
 Location: Urbana, Illinois

MET Midwest Engineering and Testing, Inc.

Boring: B-1
 Project No.: C23061
 Date of Boring: July 18, 2022
 Field Representative: Nick Schneider

VISUAL SOIL CLASSIFICATION	Feet	Sample No.	N	Q _p (tsf)	Q _u (tsf)	MC (%)	Dd (pcf)	Remarks
8" Topsoil		1-AU	14	-	-	12	-	
Dark brown silty CLAY (CL) with gravel	5	2-SS	19	-	-	4	-	
		3-SS	12	-	-	-	-	
3-SS No Recovery - Cobble		3-SS	12	-	-	-	-	
Gray fine SAND (SP) with gravel	10	4-SS	28	-	-	2	-	
		5-SS	26	-	-	-	-	
5-SS No Recovery - Cobble		5-SS	26	-	-	-	-	
Gray medium to coarse SAND (SP) with gravel	15	6-SS	18	-	-	11	-	▼ Drilling: 12.5 ft.
		7-SS	19	-	-	10	-	
		8-SS	26	-	-	12	-	
Gray medium to coarse SAND (SP) with gravel	20	9-SS	27	-	-	9	-	
		10-SS	32	-	-	8	-	
Gray silty CLAY (CL) with sand and small gravel - Till	25	11-SS	16	4.5+	-	12	-	
		12-SS	16	3.5	3.0	12	132	
Gray sandy CLAY (CL)	30	13-SS	79	1.3	-	11	-	
END OF BORING @ 31.5 FEET								

Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes, such as fill-to-natural soil zone transitions.

SOIL BORING LOG

Project Name: Crystal Lake Shared Use Path, Phase II
 Location: Urbana, Illinois

MET Midwest Engineering and Testing, Inc.

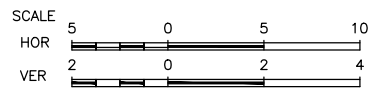
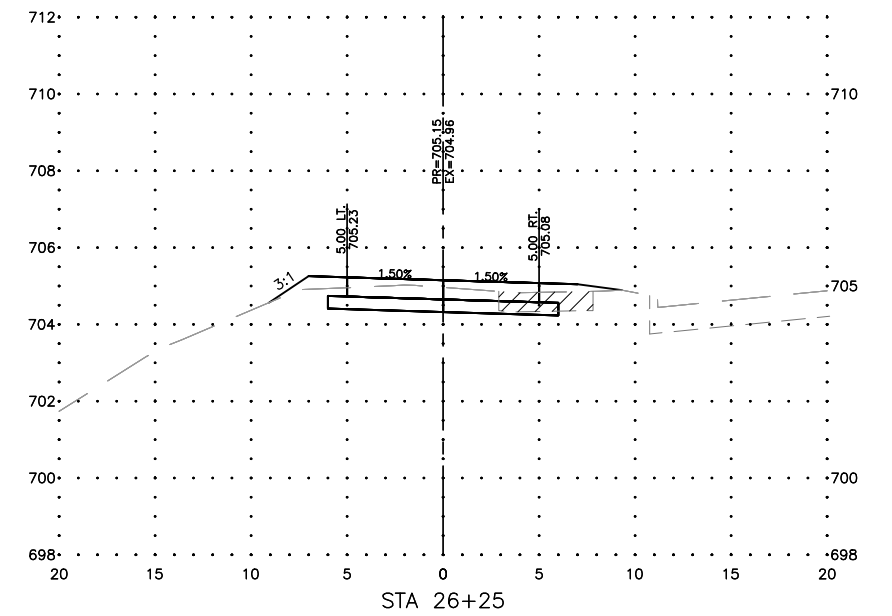
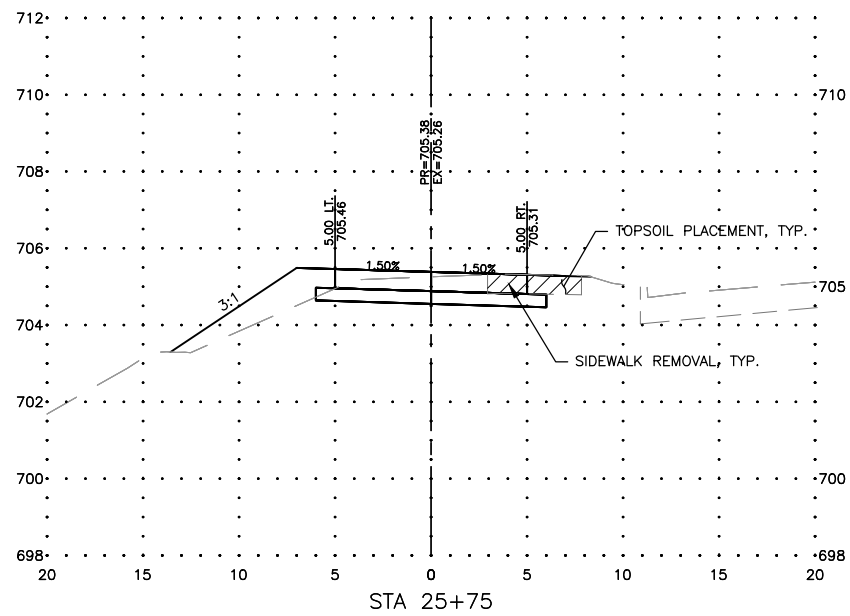
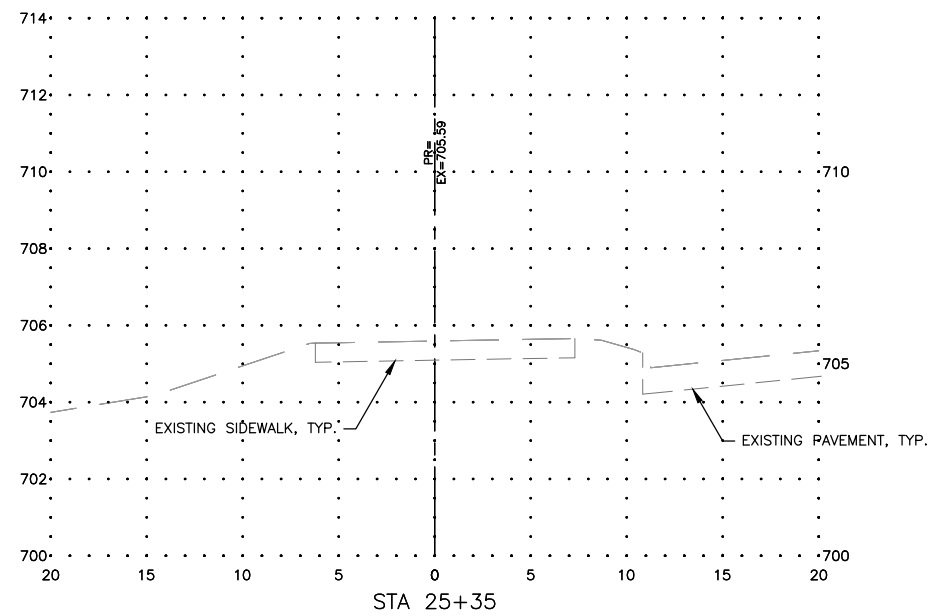
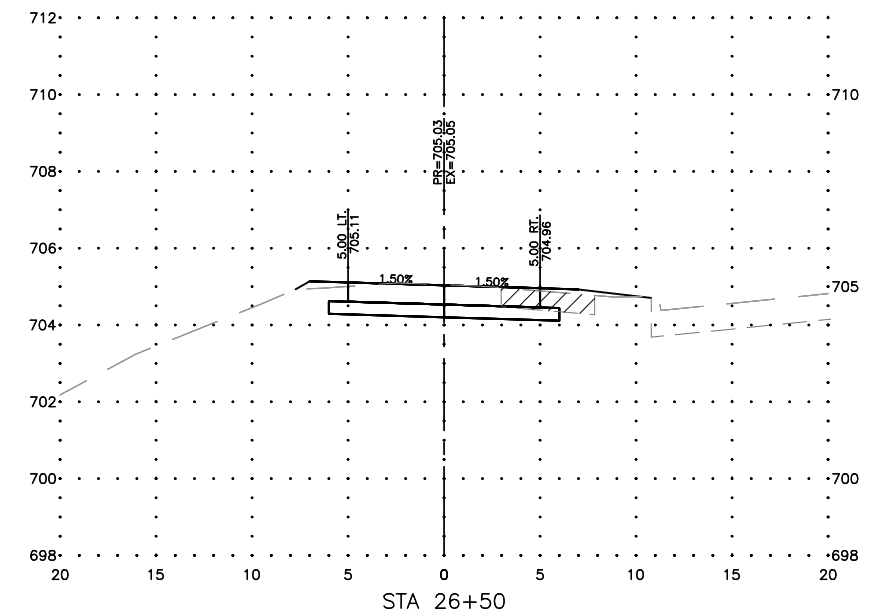
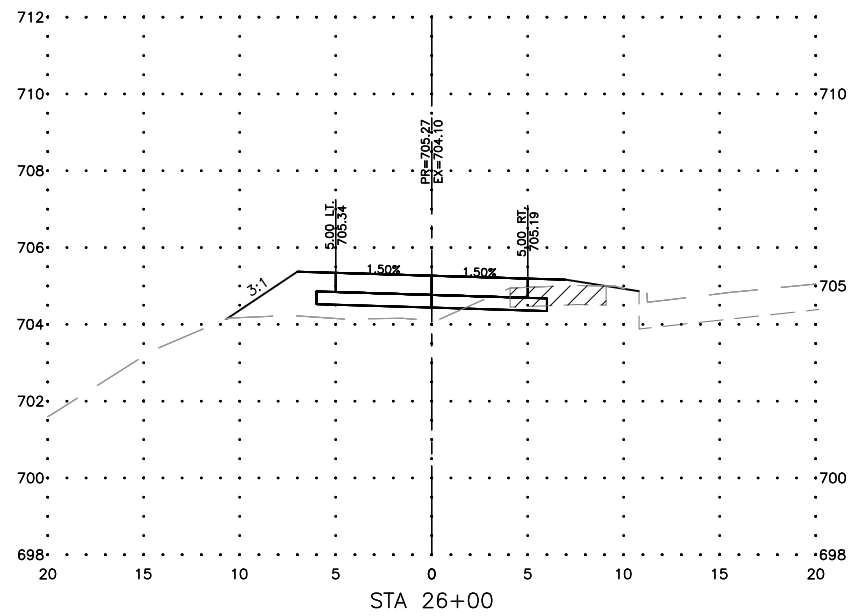
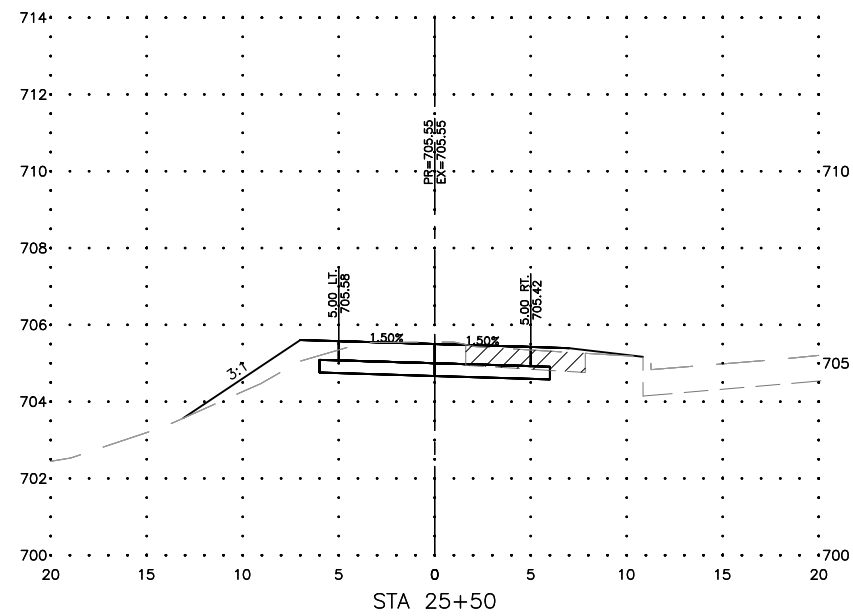
Boring: B-2
 Project No.: C23061
 Date of Boring: July 18, 2022
 Field Representative: Nick Schneider

VISUAL SOIL CLASSIFICATION	Feet	Sample No.	N	Q _p (tsf)	Q _u (tsf)	MC (%)	Dd (pcf)	Remarks
5" Topsoil		1-AU	8	-	-	9	-	
Dark brown silty CLAY (CL) with gravel	5	2-SS	10	-	-	10	-	
		3-SS	16	-	-	11	-	
Gray medium to coarse SAND (SP) with gravel	10	4-SS	14	-	-	6	-	▼ Drilling: 12.5 ft.
		5-SS	22	-	-	16	-	
		6-SS	17	-	-	15	-	
Gray sandy CLAY (CL)	20	8-SS	8	1.0	-	23	-	
		9-SS	28	2.0	0.4	18	116	
Gray silty CLAY (CL) with sand and small gravel - Till	25	10-SS	8	2.3	0.7	15	121	
		11-SS	14	3.0	2.4	11	137	
Gray clayey SAND (SC)	30	12-SS	57	2.5	-	13	-	
		13-SS	48	3.0	-	11	-	
END OF BORING @ 31.5 FEET								

Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes, such as fill-to-natural soil zone transitions.

CONTRACT NO. 91616

REVISIONS		
REV. NO.	DESCRIPTION	DATE



CONTRACT NO. 91616

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

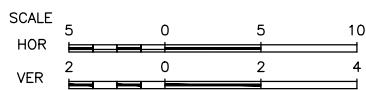
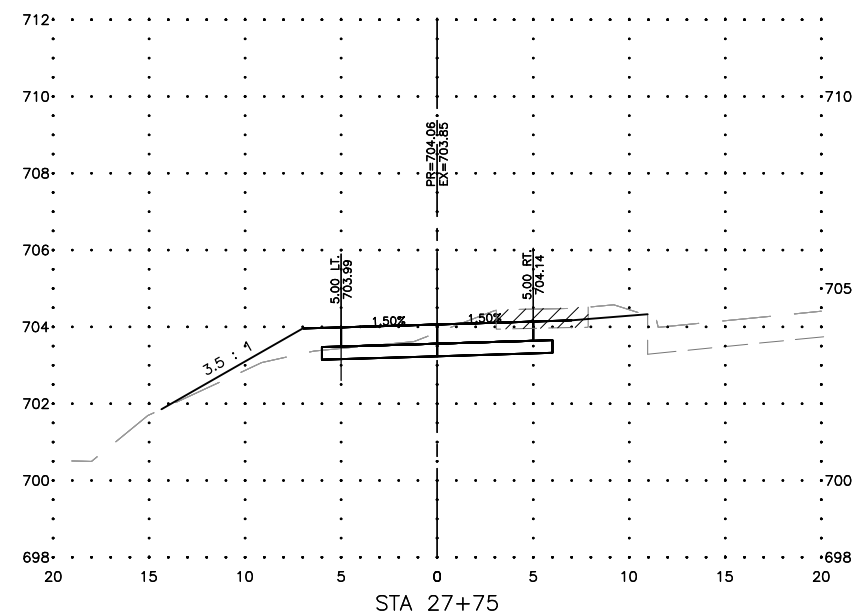
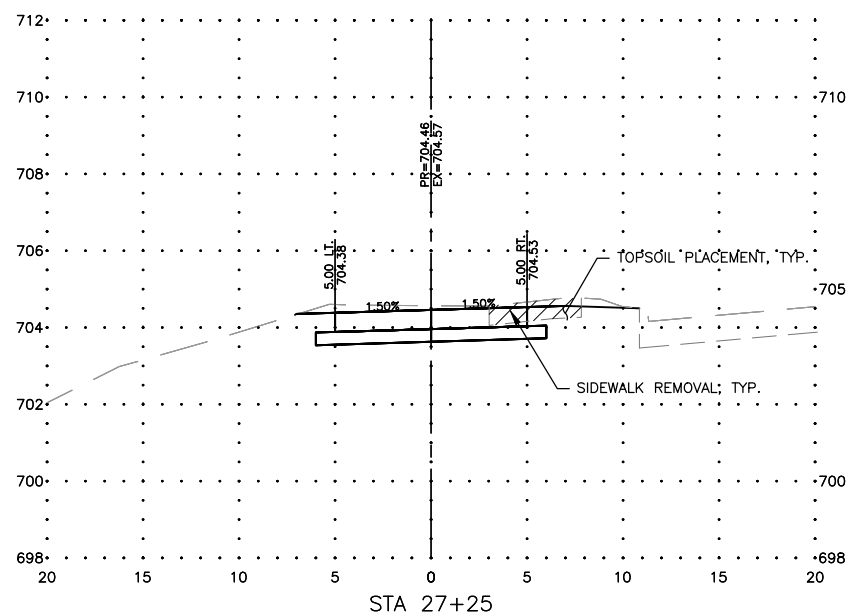
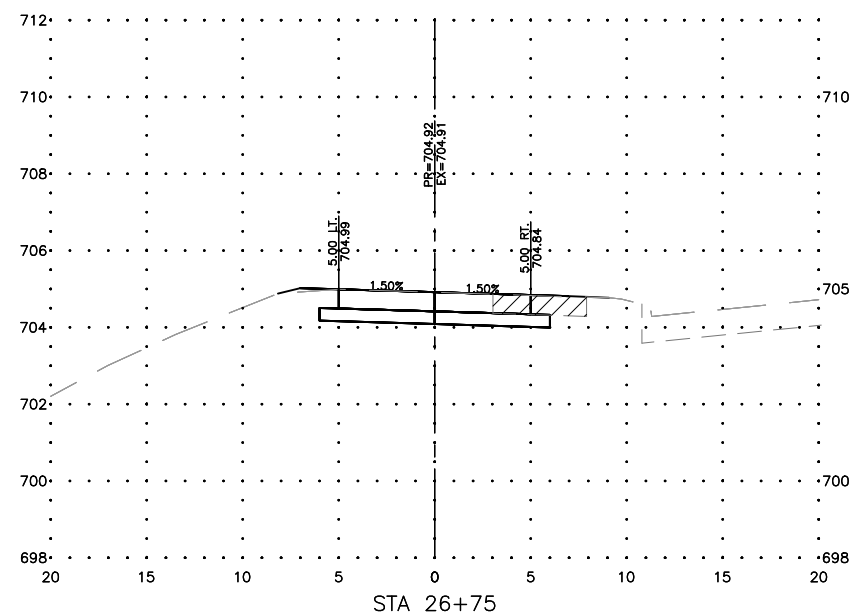
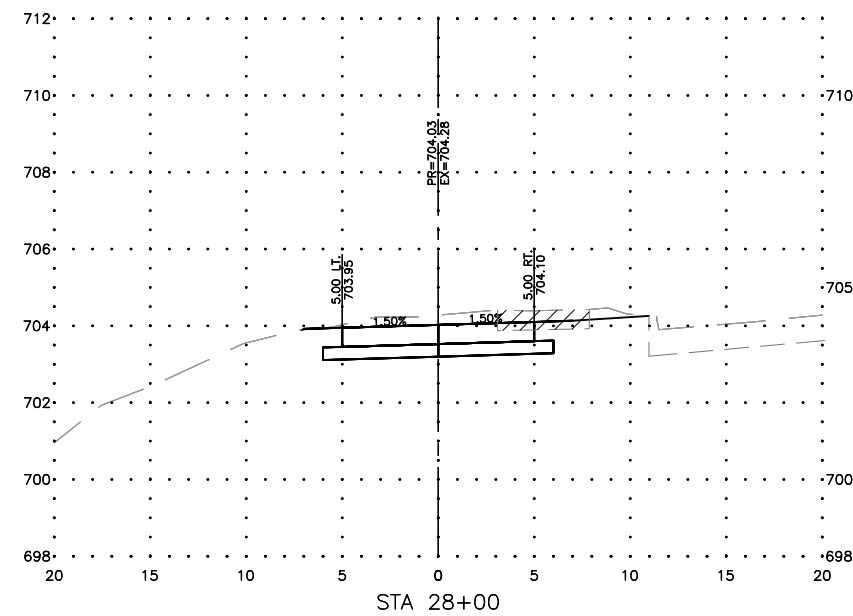
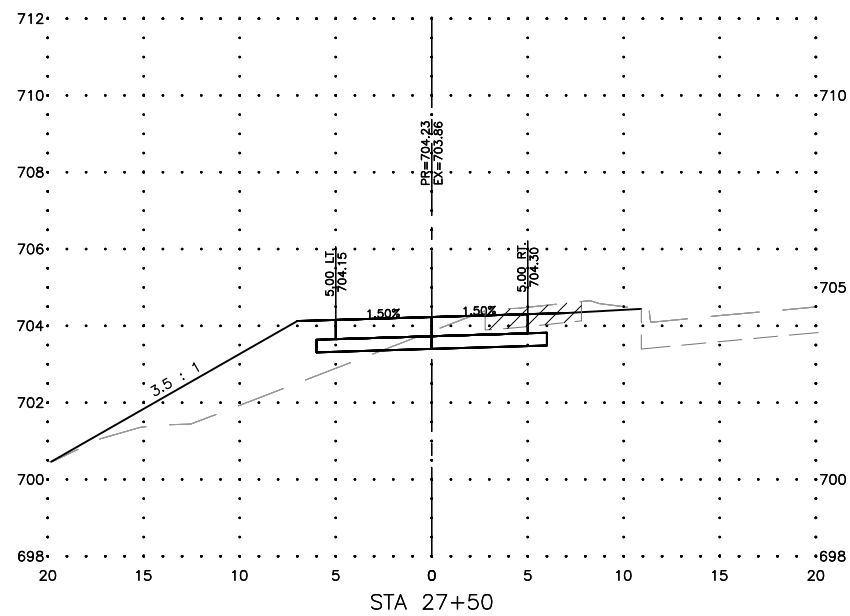
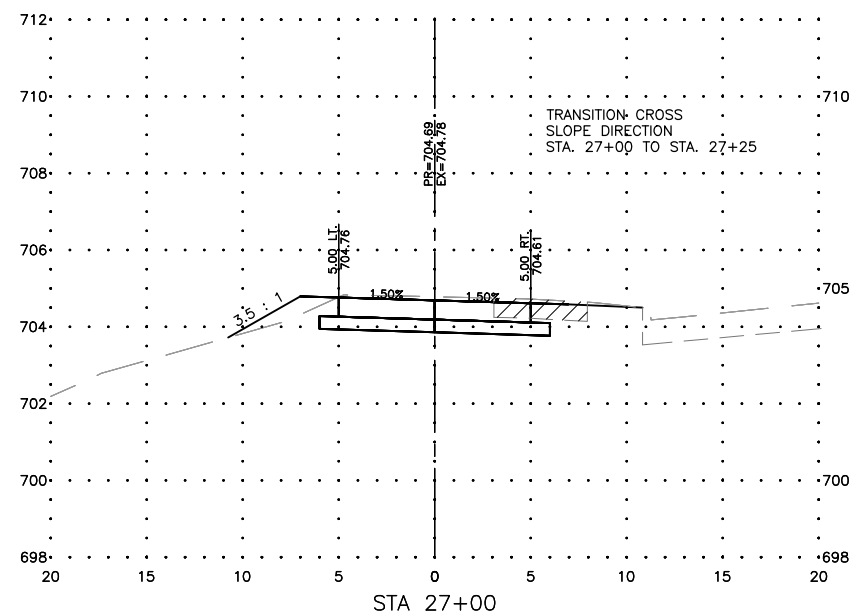
REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
CROSS SECTIONS (STA 25+35 TO STA
26+50)

SET TYPE: _____
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JOB NUMBER:
22-665

SHEET NUMBER:
17 of 24



CONTRACT NO. 91616

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ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

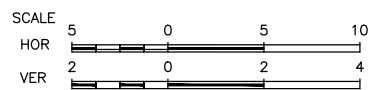
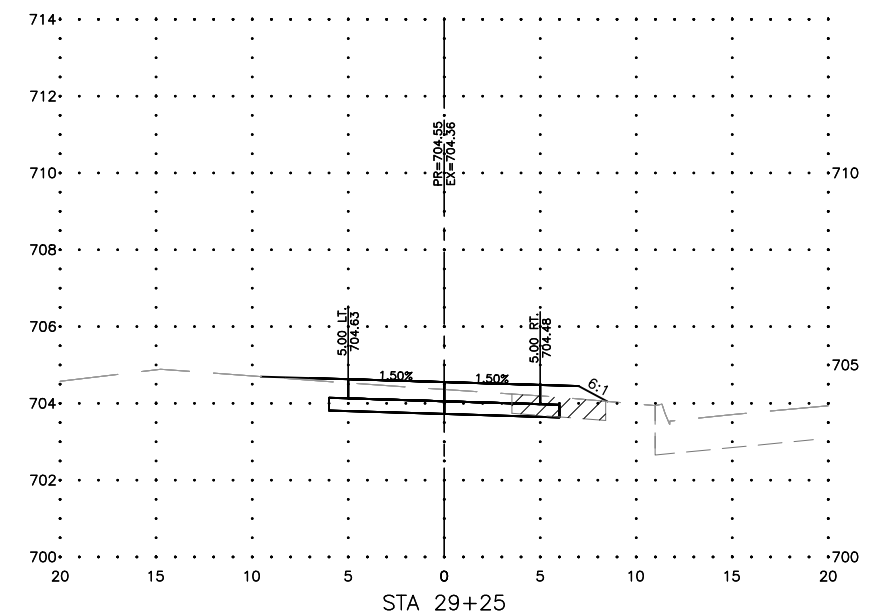
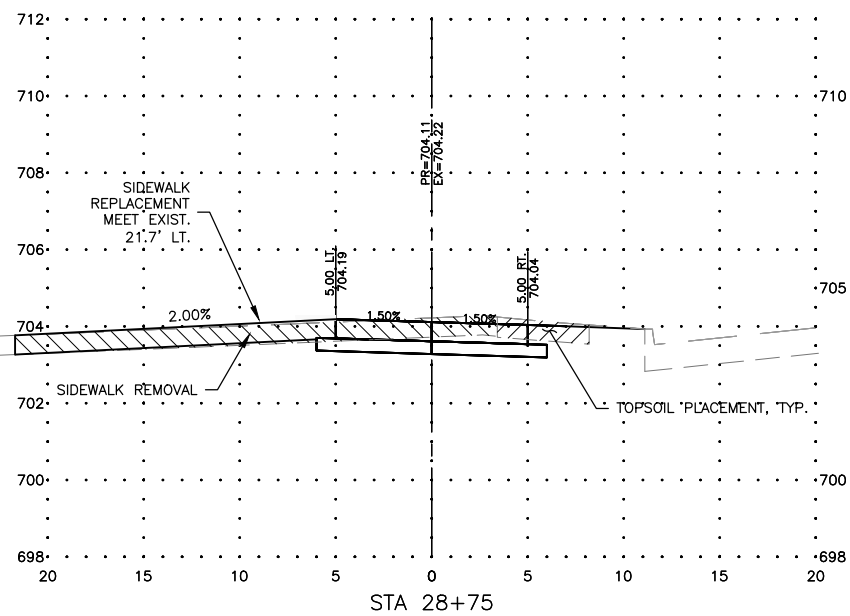
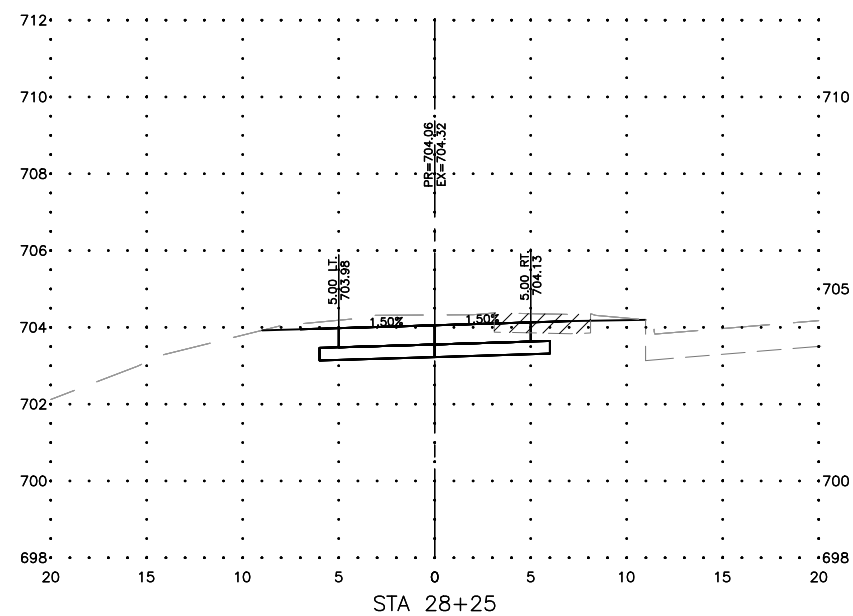
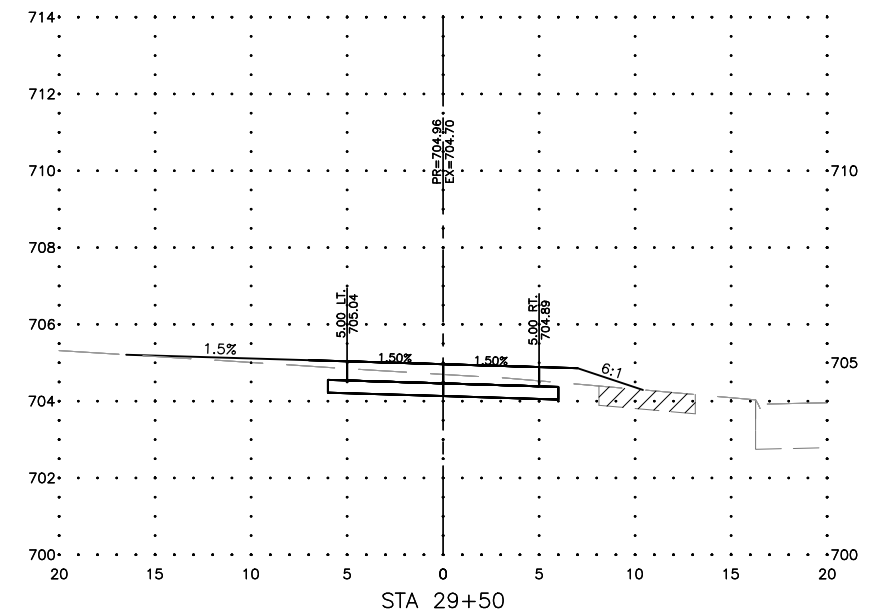
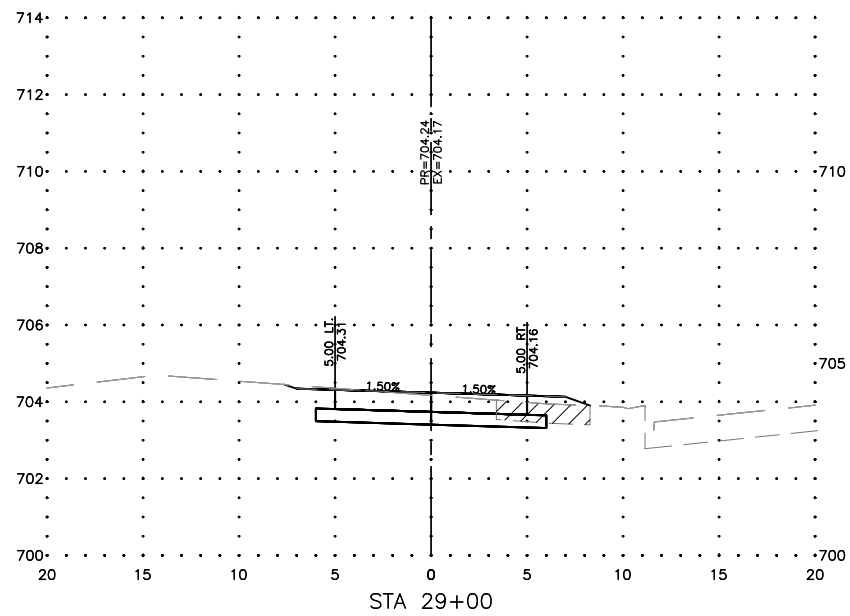
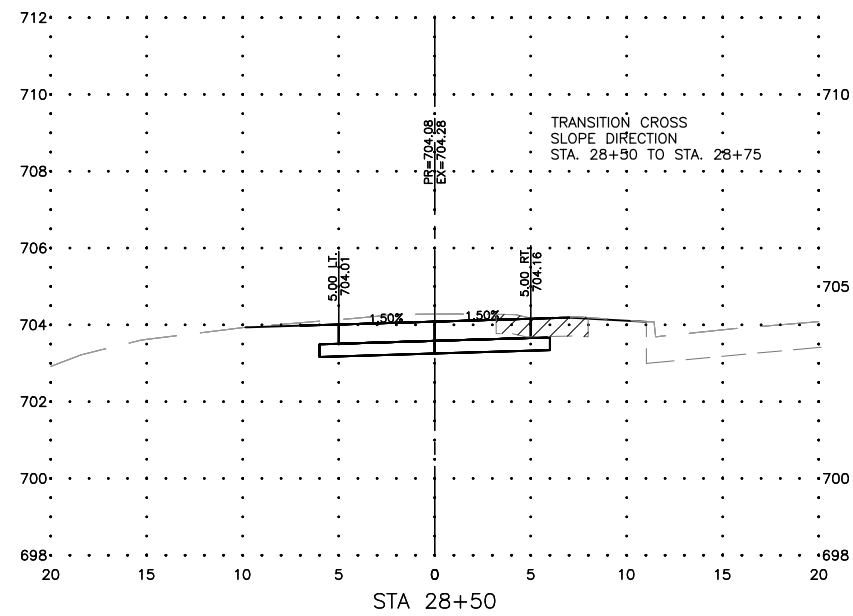
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REV. NO.	DESCRIPTION	DATE

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28+00)

SET TYPE: _____
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JOB NUMBER:
22-665

SHEET NUMBER:
18 of 24



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ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
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WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

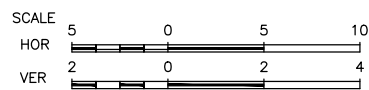
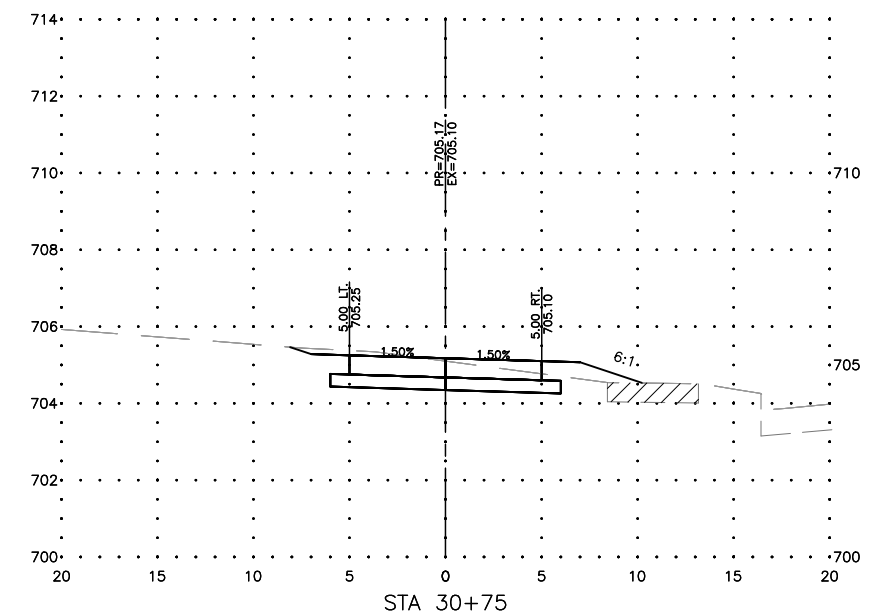
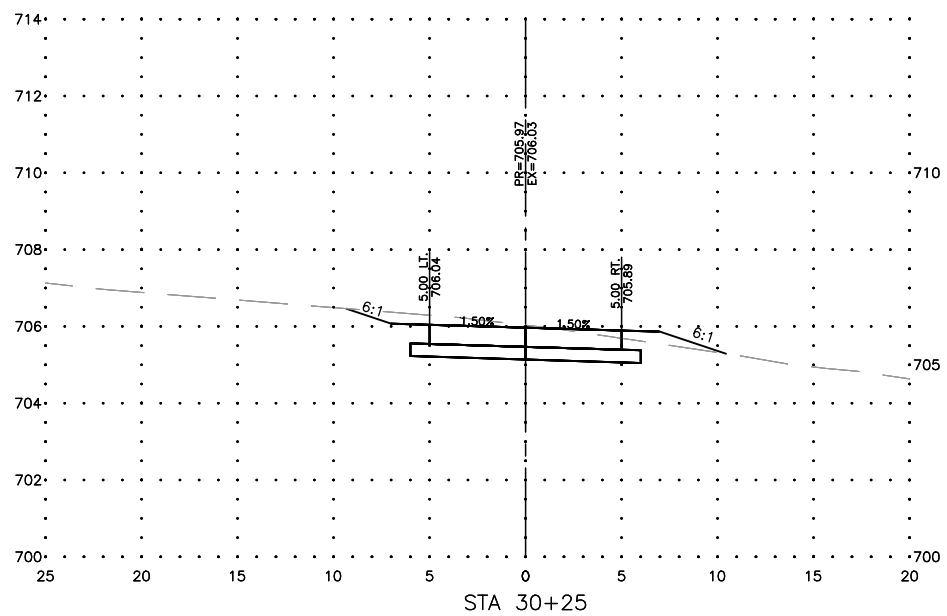
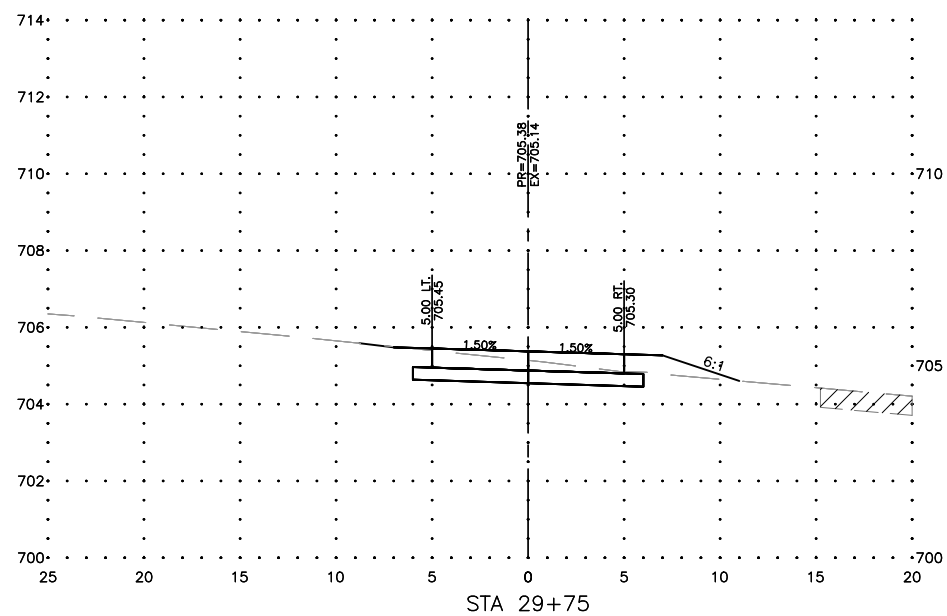
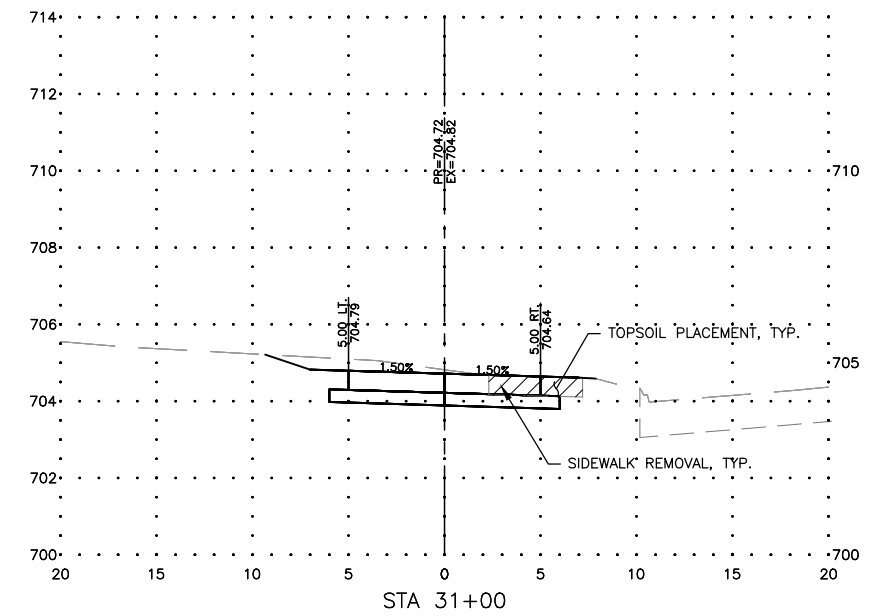
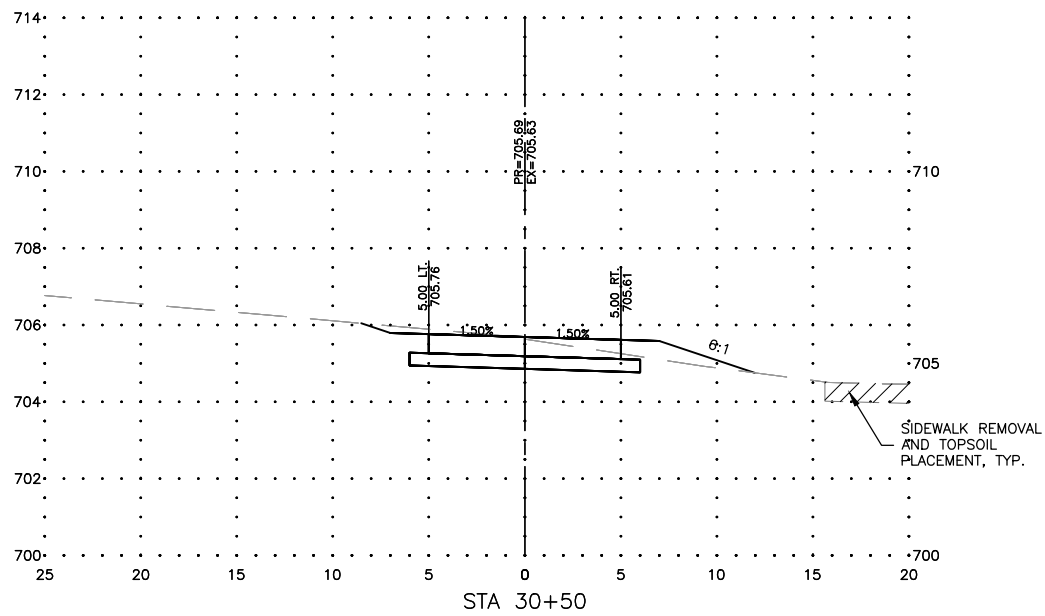
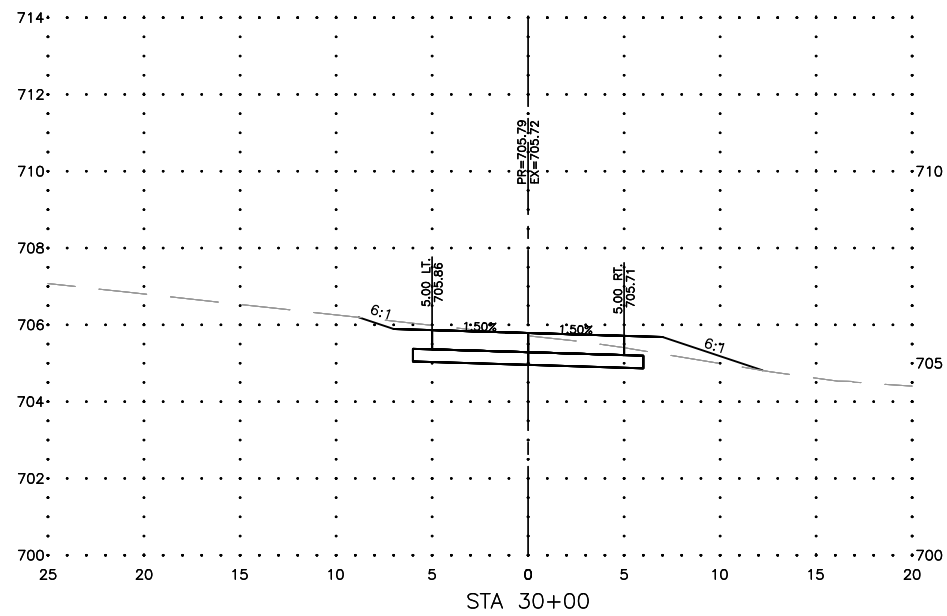
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REV. NO.	DESCRIPTION	DATE

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SET TYPE: _____
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JOB NUMBER:
22-665

SHEET NUMBER:
19 of 24



CONTRACT NO. 91616

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ENGINEERING & ENVIRONMENTAL

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

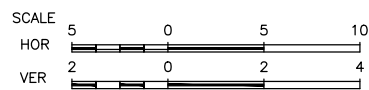
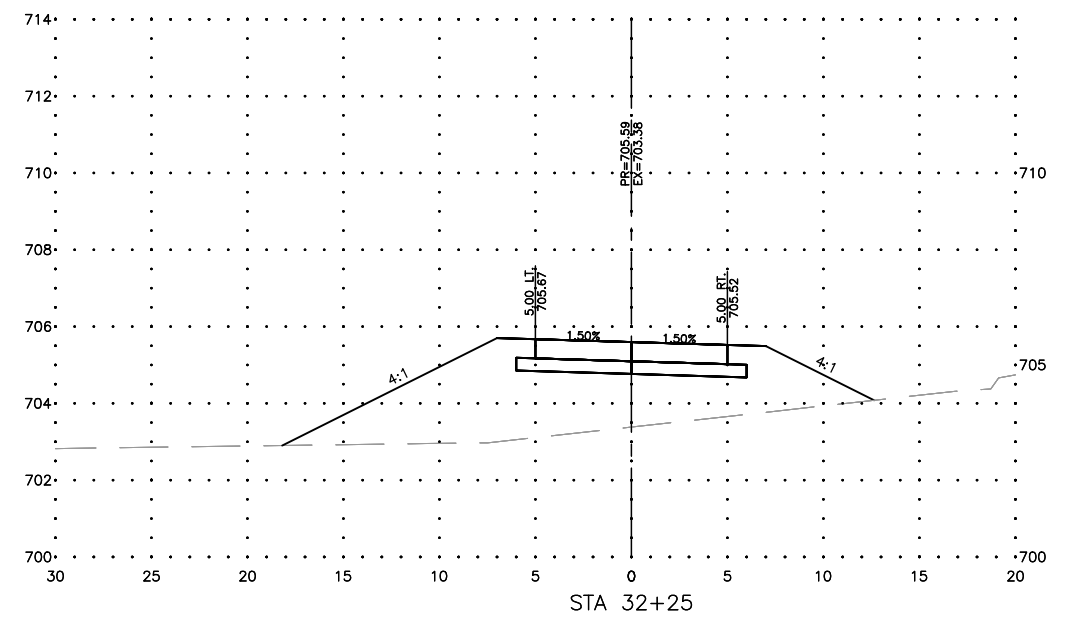
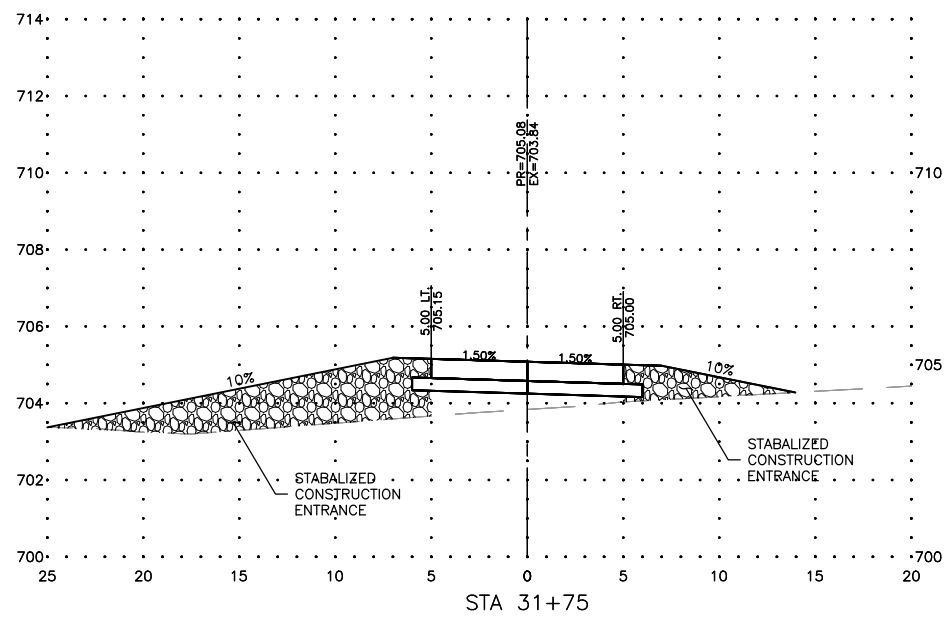
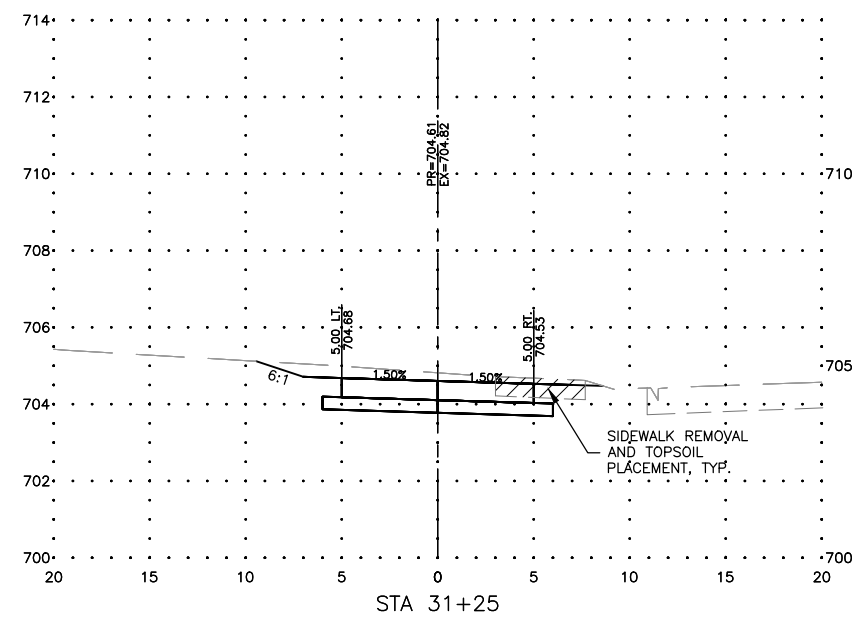
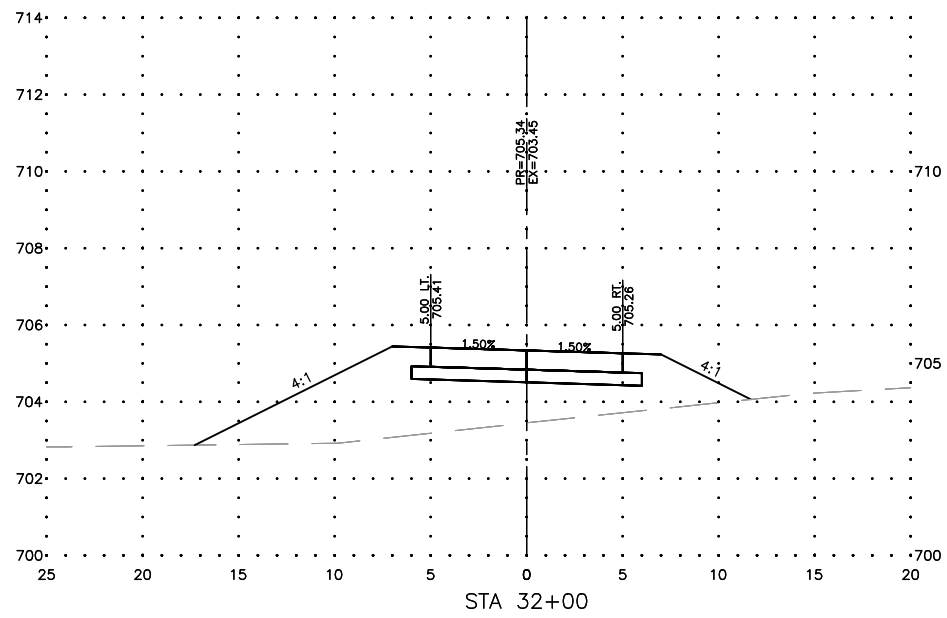
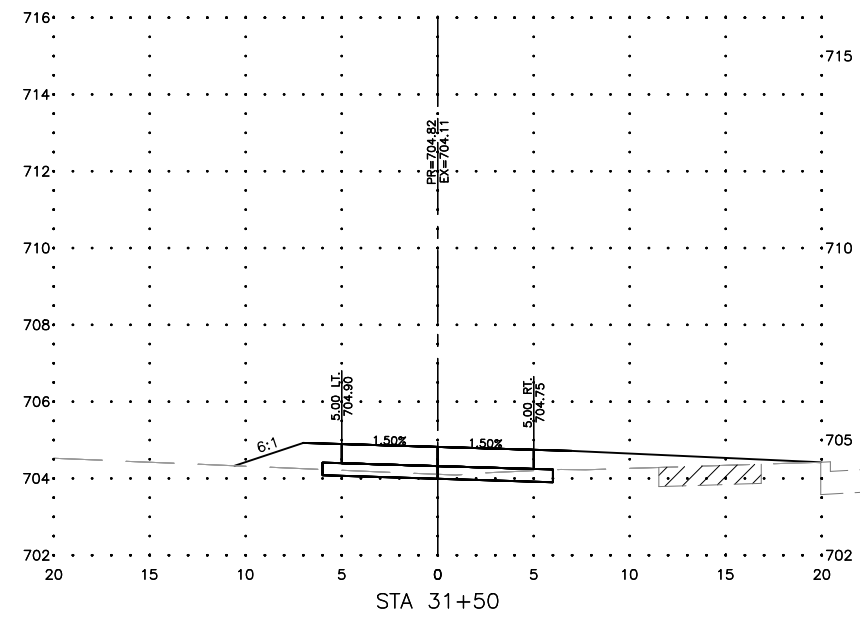
REVISIONS		
REV. NO.	DESCRIPTION	DATE

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SET TYPE: _____
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JOB NUMBER:
22-665

SHEET NUMBER:
20 of 24



CONTRACT NO. 91616

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

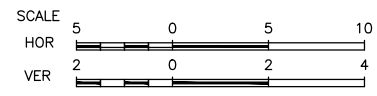
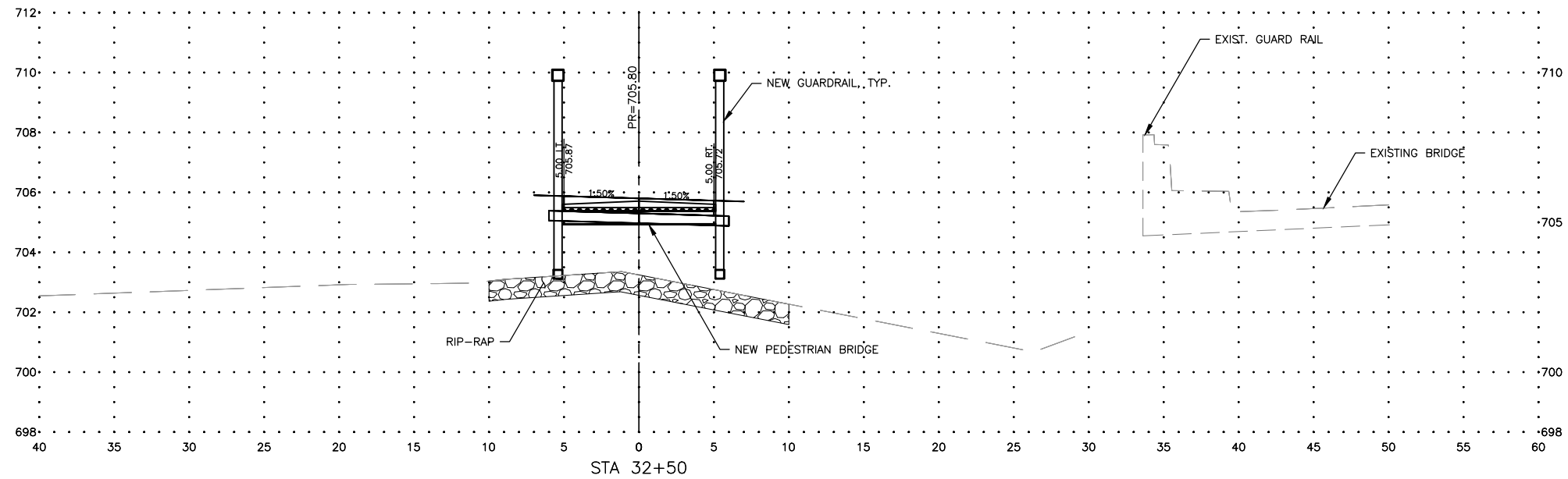
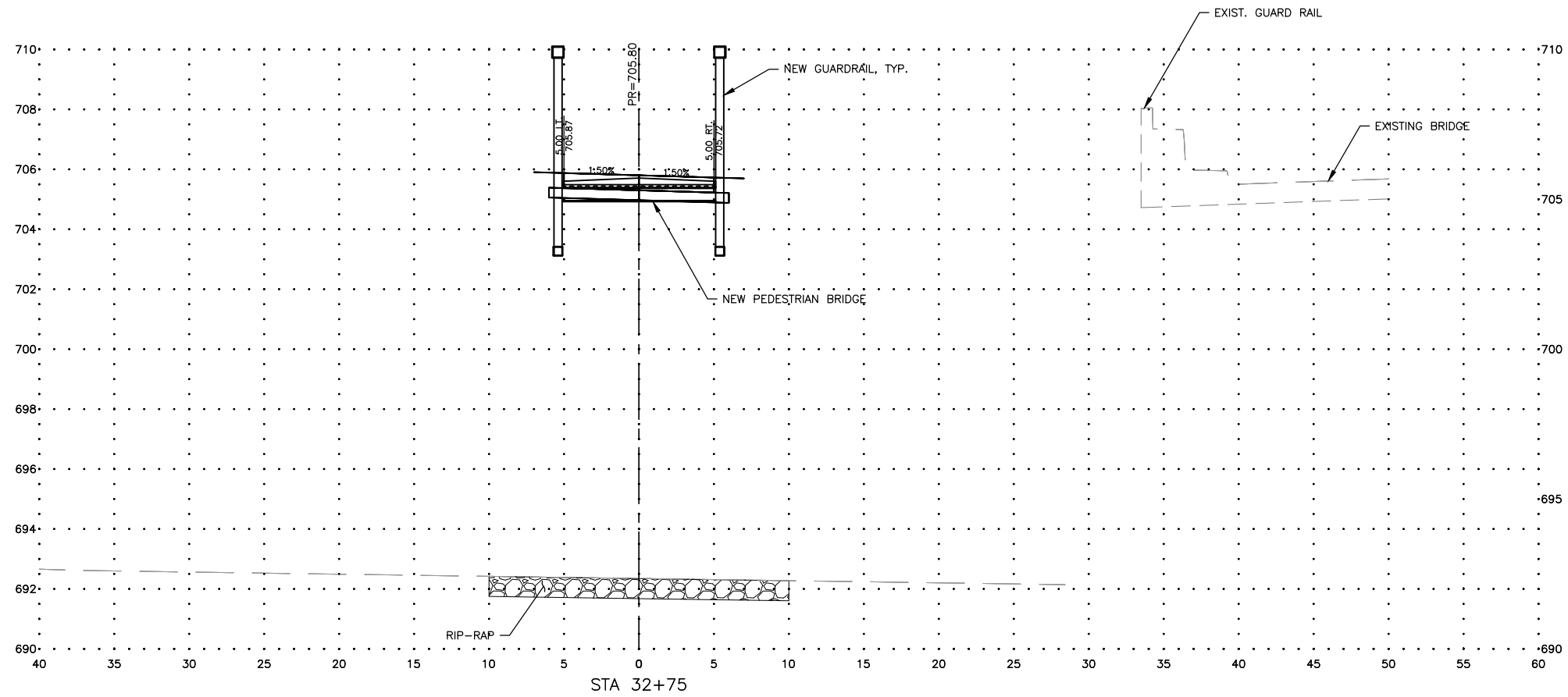
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REV. NO.	DESCRIPTION	DATE

DRAWING:
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32+25)

SET TYPE: _____
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JOB NUMBER:
22-665

SHEET NUMBER:
21 of 24



CONTRACT NO. 91616

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ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

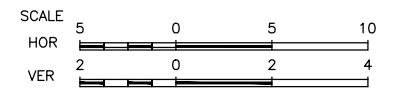
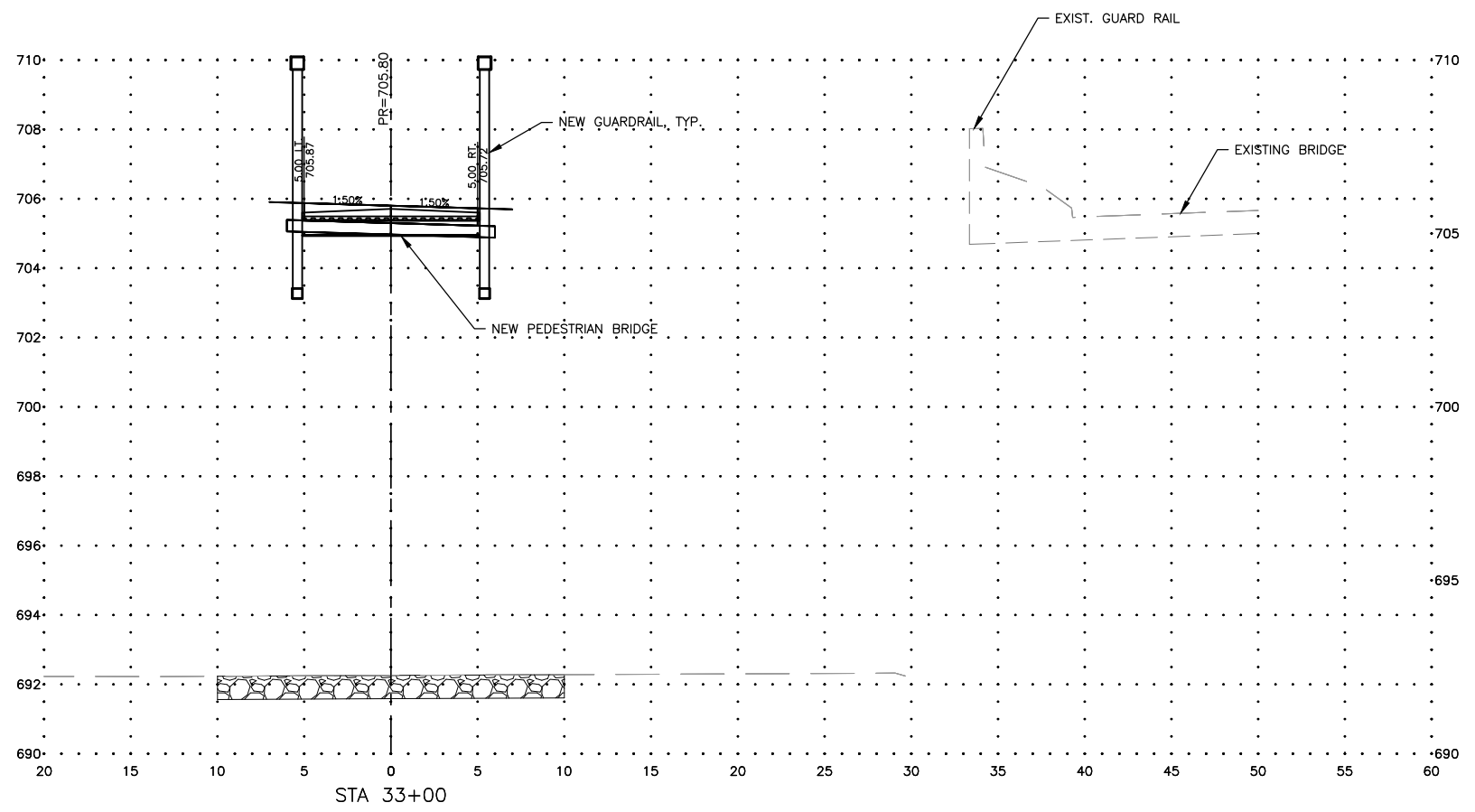
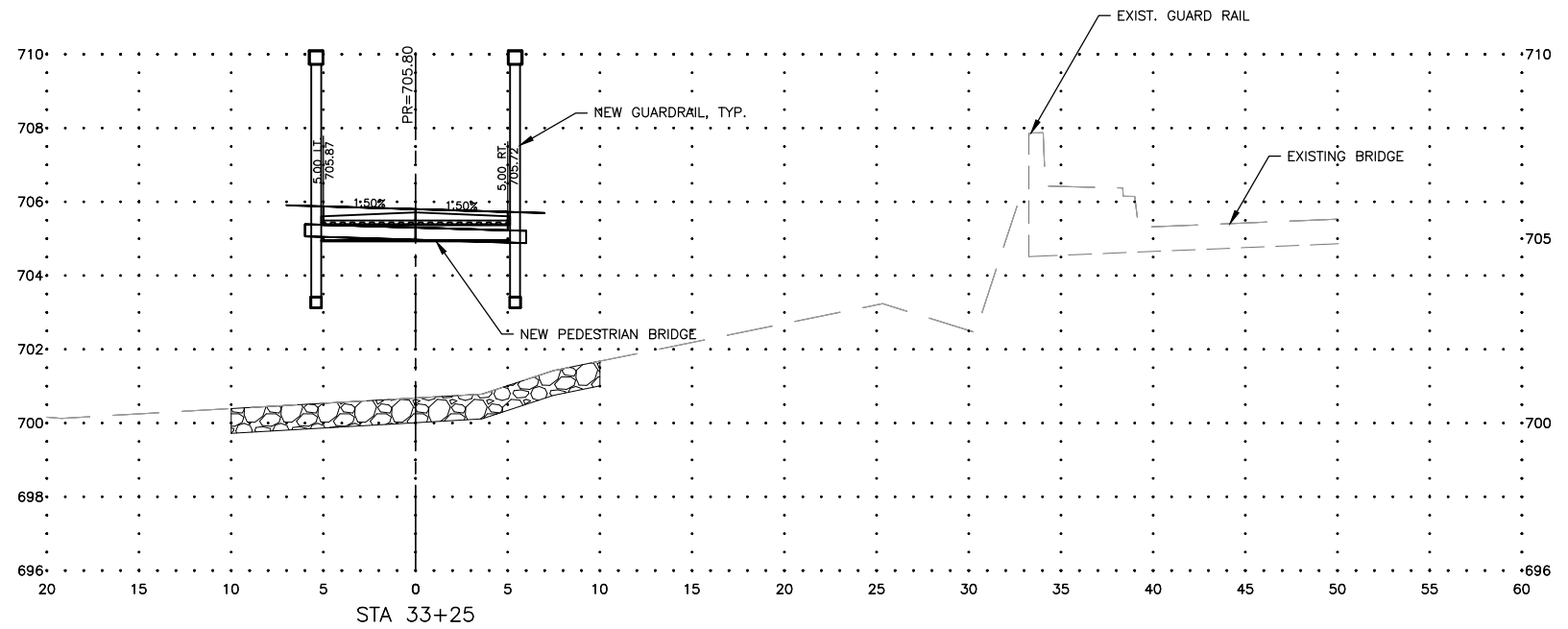
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CROSS SECTIONS (STA 32+50 TO STA
32+75)

SET TYPE: _____
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JOB NUMBER:
22-665

SHEET NUMBER:
22 of 24



CONTRACT NO. 91616

FEHR GRAHAM
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ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
 IOWA
 WISCONSIN

OWNER/DEVELOPER:
 URBANA PARK DISTRICT
 1011 KERR AVENUE
 URBANA, ILLINOIS 61802

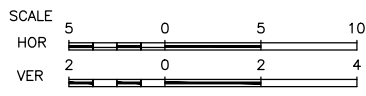
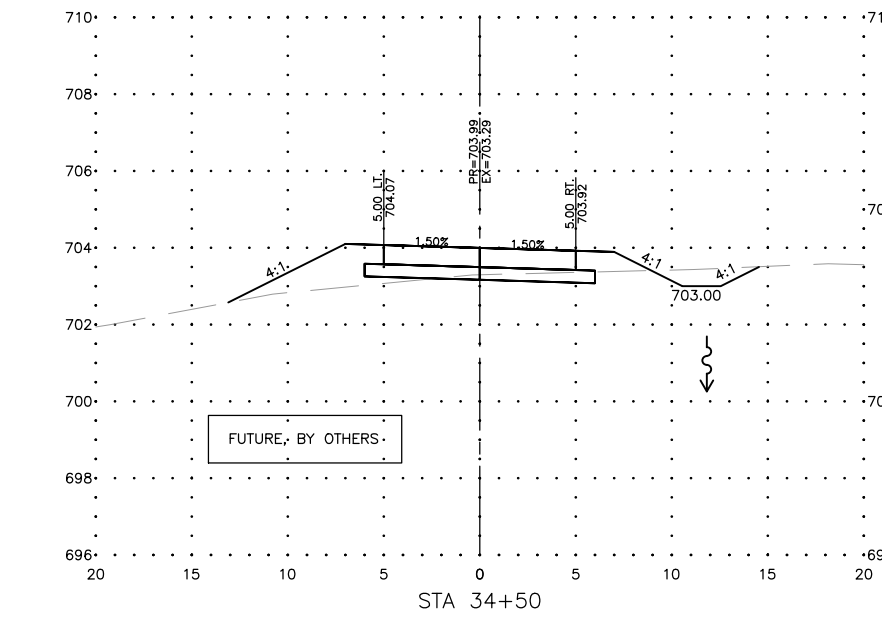
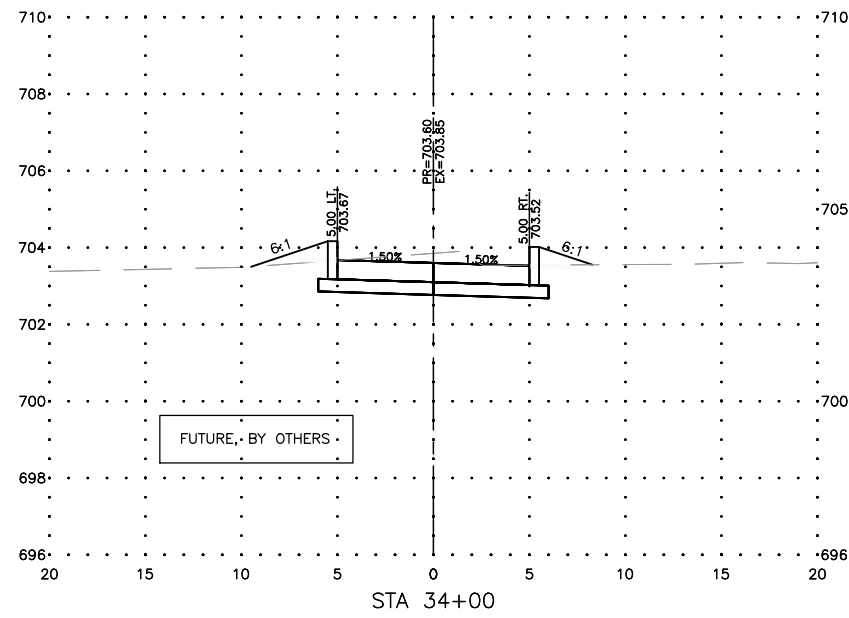
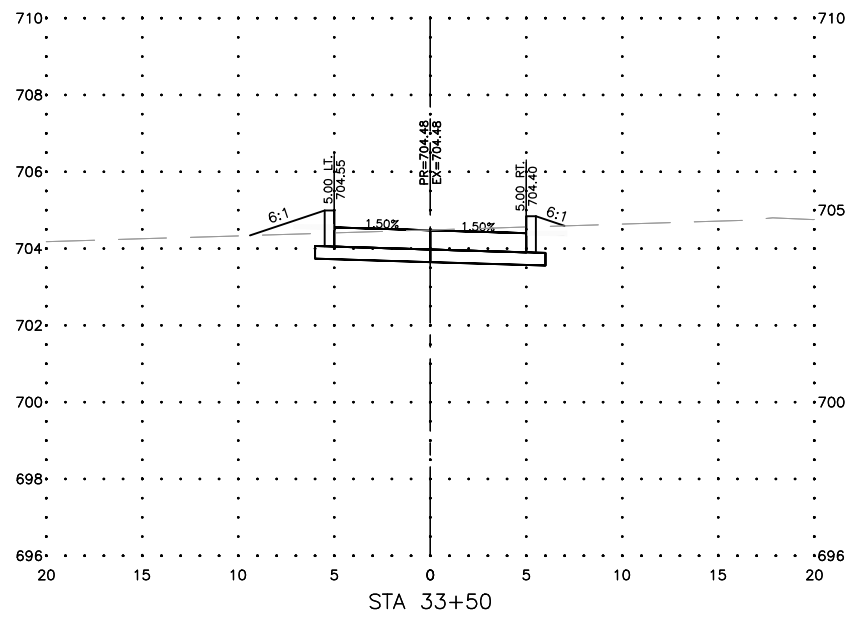
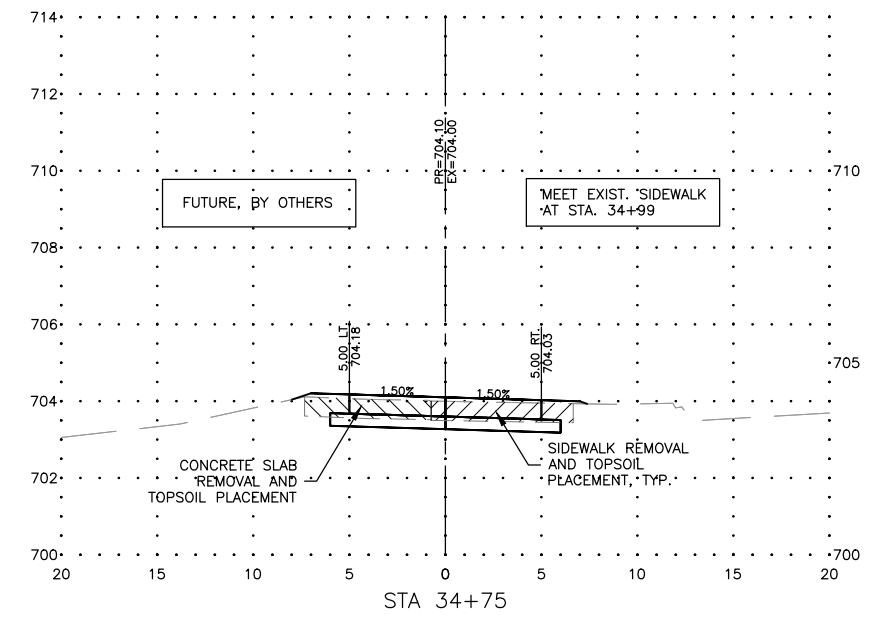
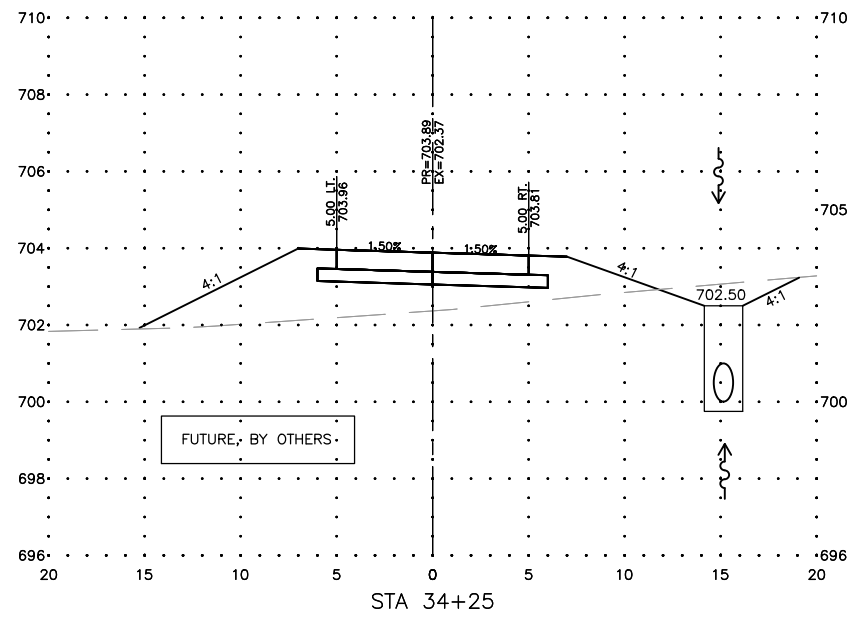
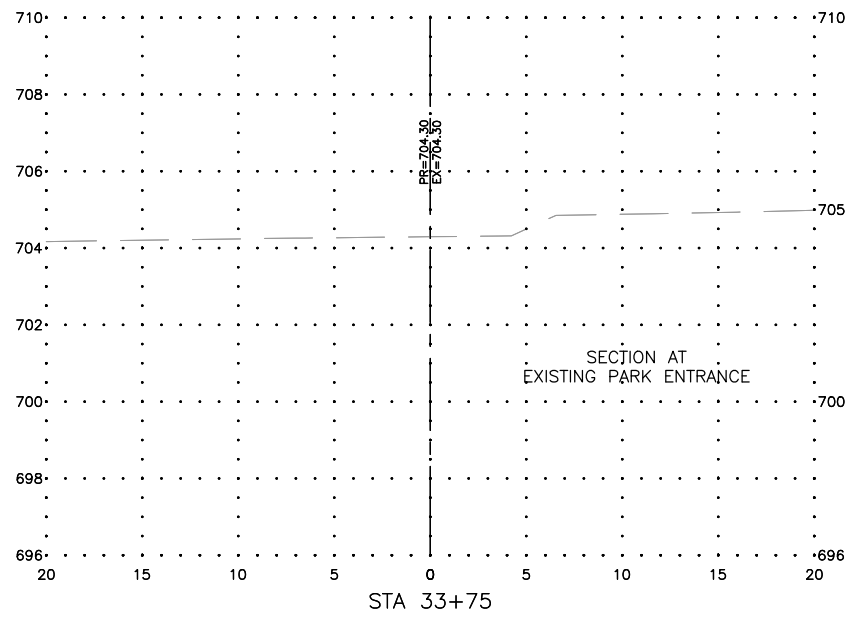
PROJECT AND LOCATION:
 URBANA PRK DISTRICT CRYSTAL
 LAKE SHARED USE PATH
 URBANA, ILLINOIS

DRAWN BY: WKH
 APPROVED BY: COM
 DATE: TBD
 SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
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 32+25)
 SET TYPE: -----
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JOB NUMBER:
 22-665
 SHEET NUMBER:
 23 of 24



CONTRACT NO. 91616

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:
URBANA PARK DISTRICT
1011 KERR AVENUE
URBANA, ILLINOIS 61802

PROJECT AND LOCATION:
URBANA PRK DISTRICT CRYSTAL
LAKE SHARED USE PATH
URBANA, ILLINOIS

DRAWN BY: WKH
APPROVED BY: COM
DATE: TBD
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
CROSS SECTIONS (STA 33+50 TO STA 34+75)

SET TYPE: _____
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JOB NUMBER:
22-665

SHEET NUMBER:
24 of 24