COUNTY OF KANE

KANE COUNTY DIVISION OF ENVIRONMENTAL & WATER RESOURCES

Jodie L. Wollnik, P.E., CFM
Director

County Government Center
719 Batavia Avenue
Geneva, IL 60134
Phone: (630) 232-3497
Fax: (630) 208-3837
e-mail: WollnikJodie@co.kane.il.us
website: http://www.co.kane.il.us

TO: Citizens of Kane County

FROM: Kane County Water Resources

DATE: May 28, 2020

RE: Golfview Drainage Project – DCEO Infrastructure Grant Application

Kane County, the City of Aurora, Fox Valley Park District and Aurora Township are working together to submit a grant application to DCEO to reduce the flooding in the Golfview area and on the Virgil Gilman Trail, north of Jericho Road, between Edgelawn and Terry Avenues.

As part of the grant requirements, we are soliciting public comments on the grant application through Aurora Township. Written comments may be submitted to the Township via email or mail or at the Public Hearing. Public comment may also be sent to the County via email at wollnikjodie@co.kane.il.us.

Included with this memo is the project plan and cost estimate for review and comment.

Thank you

TITLE: GOLFVIEW DRAINAGE IMPROVEMENTS

RAILROAD CULVERT EXHIBIT

DSGN.	JWW
DWN.	GMP
CHKD.	CHK
SCALE : AS NOTED	
RRCULVERT190208.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KANE COUNTY WATER RESOURCES
719 BATAVIA AVENUE
GENEVA IL. 60134
630-232-3499

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

WBK engineering

PROJECT NO. 190208

DATE : 03/30-2020

DRAWING NO. EX

SHEET:

1 OF 1

UPDATED: 3/27/2020 - GPKOSIE

SITE IMPROVEMENT PLANS FOR

GOLFVIEW DRAINAGE IMPROVEMENTS

UNINCORPORATED KANE COUNTY, ILLINOIS

WBK PROJECT NO. 190208

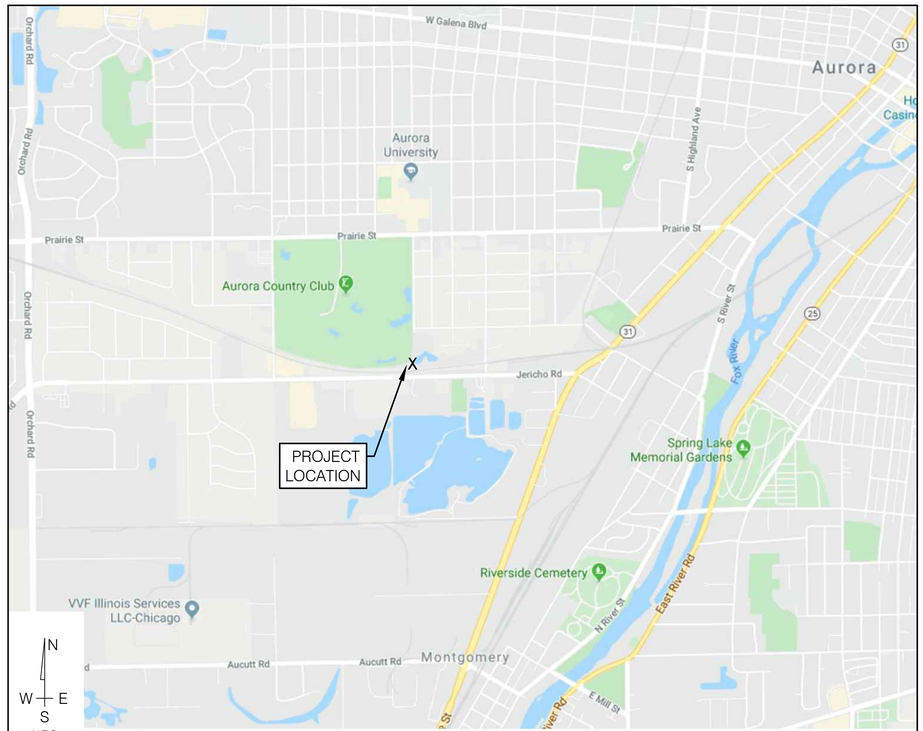
PLAN LEGEND

EXISTING	LINETYPES	PROPOSED
	DRAIN TILE	
	STORM SEWER	
	SANITARY SEWER	
W 8"	WATER MAIN (W/ SIZE)	W 8"
	PIPE TRENCH BACKFILL	
G G	GAS MAIN	G G
T T	TELEPHONE LINES	T T
E E	ELECTRIC LINE	E E
	FENCE	
	RIGHT-OF-WAY	
	EASEMENT	
	PROPERTY LINE	
	SETBACK LINE	
	CENTERLINE	
680	CONTOUR	680
	GUARDRAIL	
	SANITARY MANHOLE	
	STORM MANHOLE	
	CATCH BASIN	
	INLET	
	SUMP STRUCTURE	
	FIRE HYDRANT	
	PRESSURE CONNECTION	
	VALVE & VAULT, VALVE	
	FLARED END SECTION	
	STREET LIGHT	
	UTILITY POLE	
	CONTROL POINT	
	SIGN	
XXX.XX	SPOT ELEVATION	XXX.XX
	OVERLAND FLOW ROUTE	
	DRAINAGE SLOPE	
	TREE, EVERGREEN, SHRUB & PROPOSED TREE TO REMOVE	

PERMITS

AGENCY	DATE	PERMIT #

LOCATION MAP



BENCHMARK ELEVATION: 653.52 NAIL IN TRAIL PAVEMENT AT STA. 3+83.62; 6.3' L. SEE SHEET 3

SHEET INDEX

#	TITLE	DESCRIPTION
1	CV1	COVER SHEET
2	GN	GENERAL NOTES
3	EC	EXISTING CONDITIONS AND REMOVAL PLAN
4	GR	GRADING AND UTILITY PLAN & PROFILES
5	SESC	SOIL EROSION SEDIMENTATION CONTROL PLAN
6	DT	DETAILS

REVISIONS

ORIGINAL PLAN DATE: 11-18-2019

#	SHEET #	DESCRIPTION	DATE

CLIENT

KANE COUNTY WATER RESOURCES
719 BATAVIA AVENUE
GENEVA IL. 60134
630-232-3499

CIVIL ENGINEER

ENGINEER _____ DATE _____ SEAL

JOHN W. WITTE, P.E.

ILLINOIS REGISTRATION NO.: 062-058599
EXPIRATION DATE: 11/30/2019

THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE SIGNATURE, SEAL, AND EXPIRATION DATE OF SEAL OF THE ENGINEER

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM

CALL J.U.L.I.E. 1-800-892-0123
48 HOURS BEFORE YOU DIG

UNINCORPORATED, KANE COUNTY
SECTION 29, T38N, R8E

WBK engineering

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201, ST. CHARLES, ILLINOIS 60174
P: 630.443.7755 F: 630.443.0533 WWW.WBKENGINEERING.COM

PROFESSIONAL DESIGN FIRM NO. 184.007317
EXPIRATION DATE: 04/30/2021

W:\Projects\2019\190208 GolfviewReliefStormSewer\cadd\ACADCivil3D\190208\dwg\Sheet Drawings\CV190208.dwg, 2/12/2020 12:58:43 PM, Adobe PDF.pc3

1. REFERENCED SPECIFICATIONS AND CODES

A. THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE MOST CURRENT VERSION AND ALL AMENDMENTS THERETO. THE DESIGN MANUAL, HIGHWAY STANDARDS, AND THE CULVERT MANUAL, ALSO PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

B. THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION EXCEPT AS MODIFIED HEREIN OR BY ANY PUBLIC AGENCY PERMITS ISSUED FOR THIS WORK.

C. BP GUIDANCE ON PRACTICE FOR DRAINAGE SYSTEMS NAP-STP GP 04-10

D. BP GENERAL PRACTICE FOR CIVIL DESIGN AND CONSTRUCTION NAP-STP GP 04-20

E. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

F. THE AMERICANS WITH DISABILITIES ACT, THE ILLINOIS ACCESSIBILITY CODE AND THE FAIR HOUSING ACT.

G. THE ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL, AND IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL.

H. ALL CODES AND ORDINANCES OF DUPAGE COUNTY AND THE CITY OF NAPERVILLE

I. ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

J. THE CITED STANDARD SPECIFICATIONS, CODES AND PERMITS, WITH THESE CONSTRUCTION PLANS AND DETAILS, ARE ALL TO BE CONSIDERED PART OF THE WORK. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THESE IMPROVEMENTS.

K. IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISION SHALL APPLY.

2. UTILITY LOCATIONS

A. TO THE BEST OF OUR KNOWLEDGE, EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS.

B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL EXISTING UTILITY FACILITIES AND THEIR EXACT LOCATIONS, AND TO SAFELY SCHEDULE ALL UTILITY RELOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800-892-0123 AND THE AGENCY HAVING JURISDICTION OVER LOCAL WATER, SEWER AND ELECTRICAL SYSTEMS, FOR UTILITY LOCATIONS.

C. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

3. UTILITY COORDINATION

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND THE UTILITY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES INCURRED IN THE REPAIR OF DAMAGED UTILITY APPURTENANCES.

B. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF WORK FROM TIME TO TIME, TO COORDINATE SAME WITH UTILITY RELOCATION WORK, AND SHALL PREPARE REVISED SCHEDULE(S) IN COMPLIANCE THEREWITH AS DIRECTED BY THE OWNER.

C. THE OWNER, ENGINEER, ALL GOVERNING AGENCIES AND UTILITY COMPANIES SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRING COOPERATION WITH OTHERS.

4. ALL CONTRACTORS ARE ADVISED TO VISIT THE SITE PRIOR TO SUBMITTING BIDS.

5. PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

6. THE CONTRACTOR AND HIS JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLYING WITH THE JOB SPECIFICATIONS THE CONTRACTOR SHALL DESIGNATE A SUPERINTENDENT AT THE START OF CONSTRUCTION AND THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION.

7. THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES AS CONTRACTED BY THE OWNER, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING AGENCIES BEING UNABLE TO VISIT SITE WILL RESULT IN THE CONTRACTOR SUSPENDING OPERATIONS (PERTAINING TO TESTING) UNTIL TESTING OPERATIONS CAN BE COMPLETED. COST OF SUSPENSION OF WORK TO BE BORNE BY CONTRACTOR.

8. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES. AT NO TIME SHALL ACCESS BE DENIED TO BUILDINGS AND ROADWAYS AT THE SITE UNLESS APPROVED BY THE OWNER.

9. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES WHICH SHALL INCLUDE TRAFFIC BARRICADES, FENCING, ETC. AS DIRECTED BY THE OWNER.

10. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DETERMINATION.

11. ANY EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR REMOVAL SHALL BE KEPT OPERATIONAL AND MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE AS SHOWN ON THE ENGINEERING PLANS OR AS DIRECTED BY THE OWNER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET, SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.

12. THE CONTRACTOR SHALL MAINTAIN ALL STREETS DRIVEWAYS, PARKING AREAS, AND RIGHTS-OF-WAY IN THE AREA FREE OF SOIL, MUD AND CONSTRUCTION DEBRIS. STREETS TO BE CLEANED AT THE END OF EACH BUSINESS DAY OR SOONER.

13. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING, AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. HE SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS SIDEWALKS, CURBS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC.

14. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, TEMPORARY DITCHES OR GUTTERS SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE CLEANED AS NECESSARY TO INSURE THAT THEY ARE FREE FROM ALL DIRT AND DEBRIS PRIOR TO THE FINAL INSPECTION OF THE PROJECT. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

15. NO CONSTRUCTION VEHICLES SHALL BE STORED, SERVICED, WASHED OR FLUSHED IN A LOCATION WHERE LEAKS, SPILLAGE WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WATERCOURSES.

16. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING.

17. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB.

18. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.

19. ITEMS SPECIFIED FOR REMOVAL, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC. SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. THE CONTRACTOR SHALL IDENTIFY PROPOSED LOCATIONS FOR SUCH DISPOSAL.

20. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE OWNER.

21. ALL SEWER AND WATER MAIN CONSTRUCTION WITHIN THE LIMITS OF THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, CURRENT EDITION, AND ALL SUPPLEMENTS AND REVISIONS THERETO, WITH THE "SPECIAL PROVISIONS", WITH THESE "CONSTRUCTION NOTES" AND WITH THE STANDARD SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION OVER THE PROJECT.

22. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS SPECIFICALLY NOTED ON THE PLANS.

23. A COPY OF THE PLANS SHALL BE IN THE POSSESSION OF THE CONTRACTOR ON THE PROJECT AT ALL TIMES, INCLUDING A COPY OF ALL APPROVED PERMITS.

24. THE COST OF SAW-CUTTING FOR ITEMS TO BE REMOVED SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE ITEM BEING REMOVED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

25. THE CONTRACTOR SHALL VIDEO-TAPE THE EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK. A COPY SHALL BE PROVIDED TO THE OWNER.

26. BEFORE FINAL APPROVAL BY THE OWNER AND THE AGENCY HAVING JURISDICTION OVER THE PROJECT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE AND A REPRESENTATIVE OF THE AGENCY HAVING JURISDICTION OVER THE PROJECT. THE FINAL PAYMENT WILL BE MADE AFTER ALL OF THE CONTRACTOR'S WORK HAS BEEN APPROVED AND CERTIFIED COMPLETE. THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF ONE YEAR FROM THE DATE ON THE CERTIFICATE OF COMPLETION AND SHALL BE HELD RESPONSIBLE FOR ANY DEFECTS IN MATERIAL OR WORKMANSHIP OF THIS WORK DURING THAT PERIOD. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE A ONE YEAR MAINTENANCE BOND AS SPECIFIED IN THE CONTRACT DOCUMENTS.

INDEMNIFICATION

A. HOLD HARMLESS: THE CONTRACTOR, AS A CONDITION OF THE CONTRACT, HEREBY AGREES TO ASSUME THE ENTIRE RESPONSIBILITY AND LIABILITY FOR, AND DEFENSE OF, AND TO PAY AND INDEMNIFY AND HOLD THE OWNER, THE ENGINEER, AGENTS AND EMPLOYEES HARMLESS FROM ALL CLAIMS FOR DAMAGES OR INJURY (OR DEATH RESULTING THEREFROM) TO ANY AND ALL PERSONS, INCLUDING EMPLOYEES OR AGENTS OR ANY PERSON OR FIRM WHO ENGAGES IN WORK UPON THE PROJECT, ARISING OUT OF THE CONDUCT OF THE CONTRACTOR ARISING OUT OF THE PERFORMANCE OF THIS AGREEMENT OR ANY WORK RELEVANT THERETO, OR ARISING OUT OF ANY FEDERAL, STATE OR LOCAL STATUTE, RULE, REGULATION OR ORDINANCE, INCLUDING BUT NOT LIMITED TO THE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS ACT (OSHA).

B. ALL COSTS, FEES AND EXPENSES, INCLUDING, BY WAY OF EXAMPLE AND WITHOUT LIMITATION, REASONABLE ATTORNEY'S FEES, COURT COSTS, COURT REPORTER'S FEES, TRANSCRIPT COSTS, SUBPOENA FEES AND COSTS, WITNESS FEES, SERVICE COSTS, AND DOCUMENT REPRODUCTION COSTS INCURRED BY THE OWNER AS A RESULT OF ANY CLAIMS FOR DAMAGE OR INJURY AS ENUMERATED ABOVE SHALL BE PAID BY THE CONTRACTOR.

C. THE CONTRACTOR(S) SHALL NAME WBK ENGINEERING LLC. AND THE OWNER AS ADDITIONAL NAMED INSUREDS ON ALL LIABILITY INSURANCE POLICIES AND SHALL PROVIDE THE OWNER AND WBK WITH CERTIFICATES OF INSURANCE PRIOR TO COMMENCEMENT OF ANY WORK.

GENERAL EXCAVATION/UTILITY NOTES

1. COST FOR SHORING AND BRACING, SHEET PILING, UPRIGHTS, STRINGERS, CROSS BRACES, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

2. THE CONTRACTOR SHALL: PREVENT SURFACE WATER AND SUBSURFACE OR GROUNDWATER FROM FLOWING INTO EXCAVATIONS; REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS; PROVIDE AND MAINTAIN PUMPS, SUMPS, SUCTION AND DISCHARGE LINES AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS; CONVEY WATER REMOVED FROM EXCAVATIONS AND RAINWATER TO COLLECTING OR RUN-OFF AREAS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION; PROVIDE AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS FOR EACH STRUCTURE. THE CONTRACTOR SHALL NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

3. IMMEDIATELY REPORT CONDITIONS THAT MAY CAUSE UNSOUND BEARING TO THE OWNER OR OWNER'S AGENT.

4. UNDERGROUND WORK SHALL INCLUDE TRENCHING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE IMPROVEMENTS.

5. EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE, WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. DRAINAGE STRUCTURES AND SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

6. IN THE EVENT THAT UNSTABLE/SOFT MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S AGENT IMMEDIATELY.

7. TRENCH BACKFILL WILL BE REQUIRED FOR THE FULL TRENCH DEPTH WITHIN TWO (2) FEET OF PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS. THE TRENCH BACKFILL SHALL CONSIST OF GRANULAR MATERIAL MEETING SSRBC CA-7 GRADATION, UNLESS NOTED OTHERWISE. JETTING WITH WATER SHALL NOT BE PERMITTED.

8. ALL TOP OF NEW FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULT COVERS ARE TO BE ADJUSTED TO MEET FINAL FINISHED GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY OWNER UPON FINAL INSPECTION OF THE PROJECT.

9. THE CONTRACTOR SHALL VERIFY THE SIZE AND INVERT ELEVATION OF ALL CONNECTIONS TO AVOID ANY CONFLICTS BEFORE STARTING WORK. NOTIFY OWNER OF ANY DISCREPANCIES.

10. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE AGENCY HAVING JURISDICTION. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE OWNER AND ENGINEER PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE, AND PRIOR TO PLACING ANY CONCRETE AFTER FORMS HAVE BEEN SET.

11. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

EARTHWORK NOTES

1. GENERAL

A. THE CONTRACTOR SHALL WORK BASED ON THEIR OWN EXPLORATIONS AND OBSERVATIONS TO DETERMINE CONDITIONS AT THE LOCATION OF THE PROPOSED WORK.

B. THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE UNLESS NOTED OTHERWISE.

C. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION, AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK RESULTING FROM CONTRACTOR'S FAILURE TO PROVIDE PROPER DRAINAGE. GRADED AREAS SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES". THE INITIAL ESTABLISHMENT OF EROSION CONTROL AND THE PLACEMENT OF SILT FENCING, ETC. TO PROTECT ONSITE AND ADJACENT PROPERTY, ETC. SHALL OCCUR BEFORE ANY WORK BEGINS.

E. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL PROTECT ALL TREES DESIGNATED TO BE PRESERVED.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LEGAL DISPOSAL OF ALL EXCAVATED MATERIAL INCLUDING PAVEMENT, CONCRETE, ETC. FROM THE SITE.

2. TOPSOIL

A. TOPSOIL SHALL BE REMOVED WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR STRUCTURAL FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS.

B. TOPSOIL SHALL BE PLACED IN OWNER DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.

C. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE.

D. TOPSOIL PLACEMENT SHALL INCLUDE HAULING AND SPREADING 4" OR MORE OF TOPSOIL OVER AREAS TO BE LANDSCAPED WHERE SHOWN ON THE PLANS OR DIRECTED BY THE OWNER.

3. EXCAVATION/EMBANKMENT

A. SUB-GRADE SHALL BE GRADED TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. SUB-GRADE SHALL BE COMPACTED TO THE SAME COMPACTION AND MOISTURE CRITERIA AS THE OVERLYING FILL TO BE PLACED.

B. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION. STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL, TO WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THIS MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.

C. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM, A FULLY LOADED SIX-WHEEL DUMP TRUCK FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL.THIS SHALL BE WITNESSED BY THE ENGINEER OR OWNER.

D. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL, OR OTHERWISE CORRECTED, AS APPROVED BY THE ENGINEER.

4. UNSUITABLE MATERIAL

A. UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND STRUCTURAL CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND THE PROPOSED SUBGRADE ELEVATION. THE DECISION TO REMOVE SAID MATERIAL, AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.

TITLE: GOLFVIEW DRAINAGE IMPROVEMENTS

GENERAL NOTES

DSGN. JWW
DWN. GMP
CHKD. CHK
SCALE : AS NOTED
GN190208.DWG

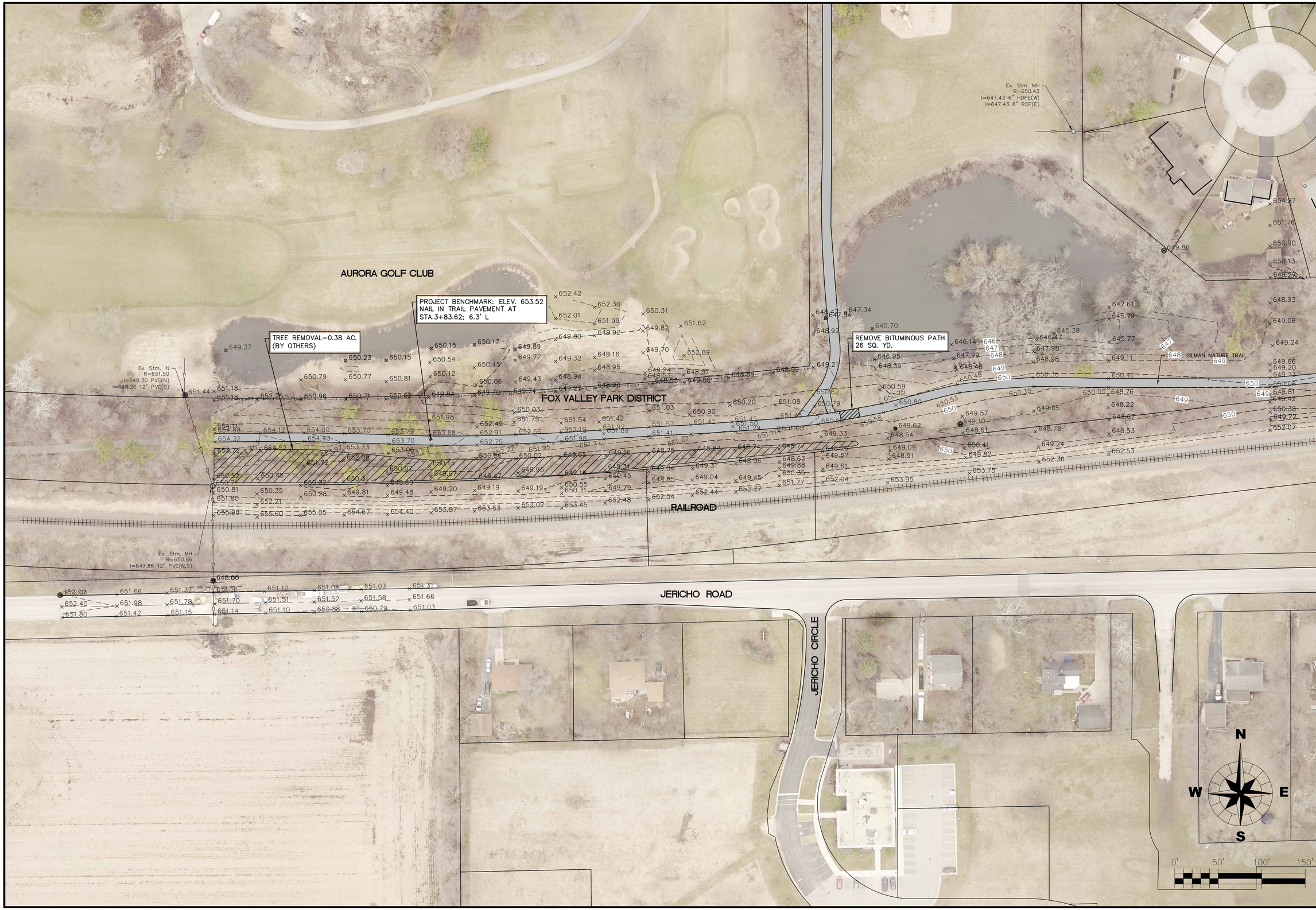
NO.	DATE	NATURE OF REVISION

CLIENT: KANE COUNTY WATER RESOURCES
719 BATAVIA AVENUE
GENEVA IL. 60134
630-232-3499

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 190208
DATE : 11-18-2019
DRAWING NO. GN
SHEET:

W:\Projects\2019\190208 Golfview Relief Storm Sewer\cadd\ACADCivil3D\190208\dwg\Sheet Drawings\GN190208.dwg, 2/12/2020 12:58:53 PM, Adobe PDF.pc3



TITLE: GOLFVIEW DRAINAGE IMPROVEMENTS

EXISTING CONDITIONS AND REMOVAL PLAN

DSGN.	JWW
DWN.	GMP
CHKD.	CHK
SCALE : AS NOTED	
EC190208.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KANE COUNTY WATER RESOURCES
719 BATAVIA AVENUE
GENEVA IL. 60134
630-232-3499

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

WBK engineering

PROJECT NO. 190208

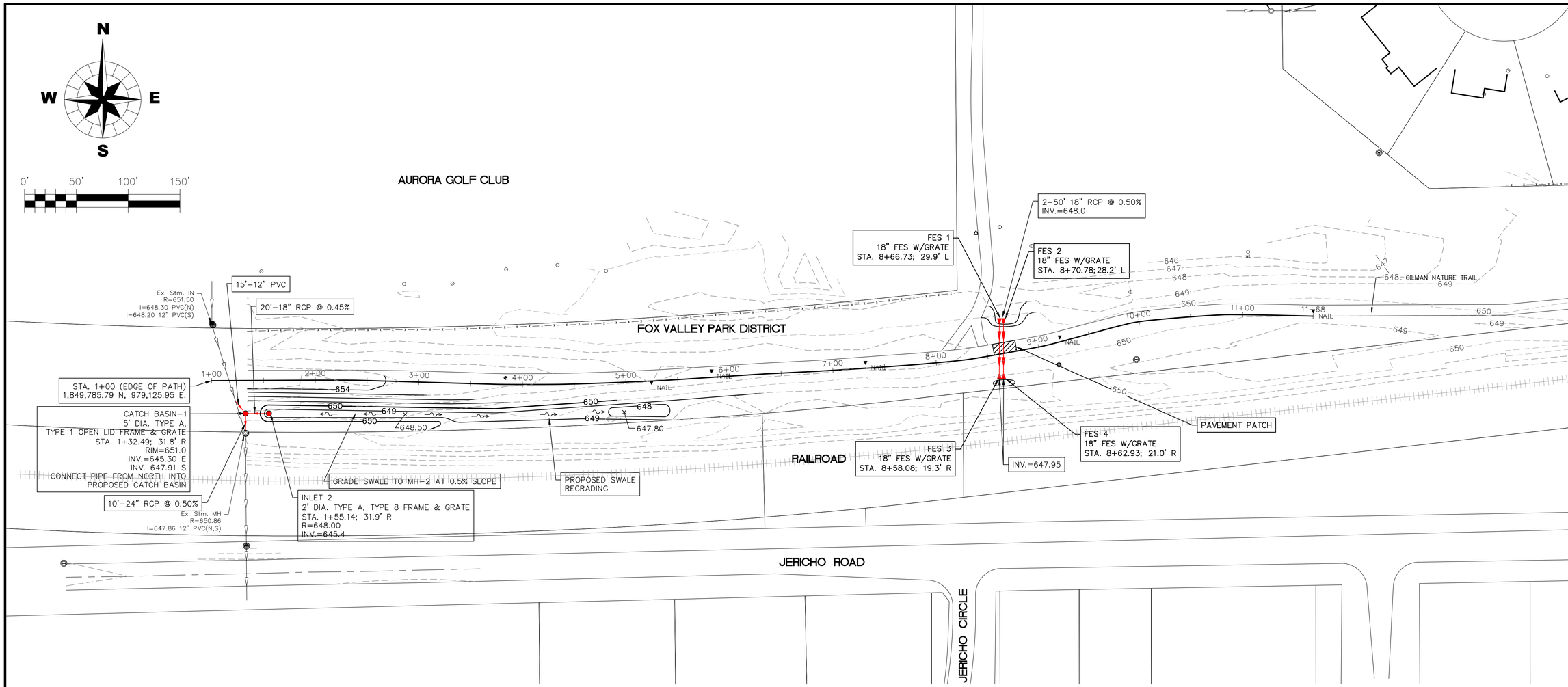
DATE : 11-18-2019

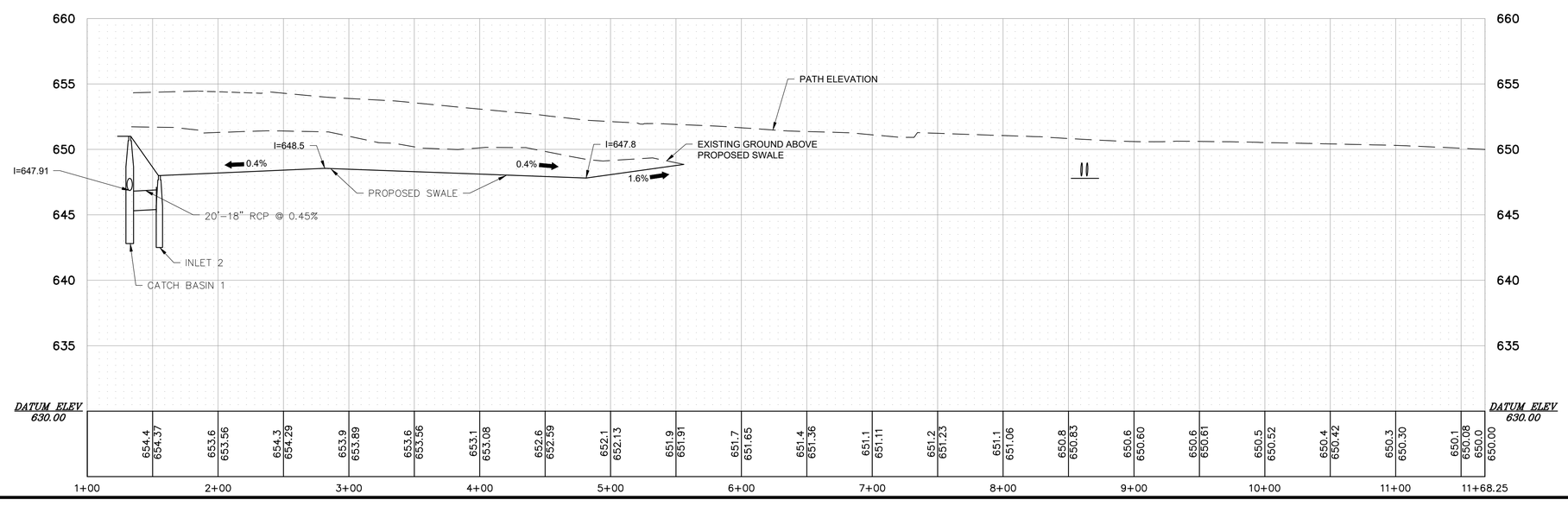
DRAWING NO. EC

SHEET:

3 OF 6

W:\Projects\2019\190208 GolfviewReliefStormSewer\cadd\ACADCivil3D\190208.dwg\Sheet Drawings\EC190208.dwg, 2/12/2020 12:58:59 PM, Adobe PDF.pc3





TITLE: GOLFVIEW DRAINAGE IMPROVEMENTS

GRADING AND UTILITY PLAN & PROFILES

DSGN.	JWW
DWN.	GMP
CHKD.	CHK
SCALE : AS NOTED	
GR190208.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KANE COUNTY WATER RESOURCES
719 BATAVIA AVENUE
GENEVA IL. 60134
630-232-3499

WBK ENGINEERING, LLC
116 CORPORATE BLVD., SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 190208

DATE : 11-18-2019

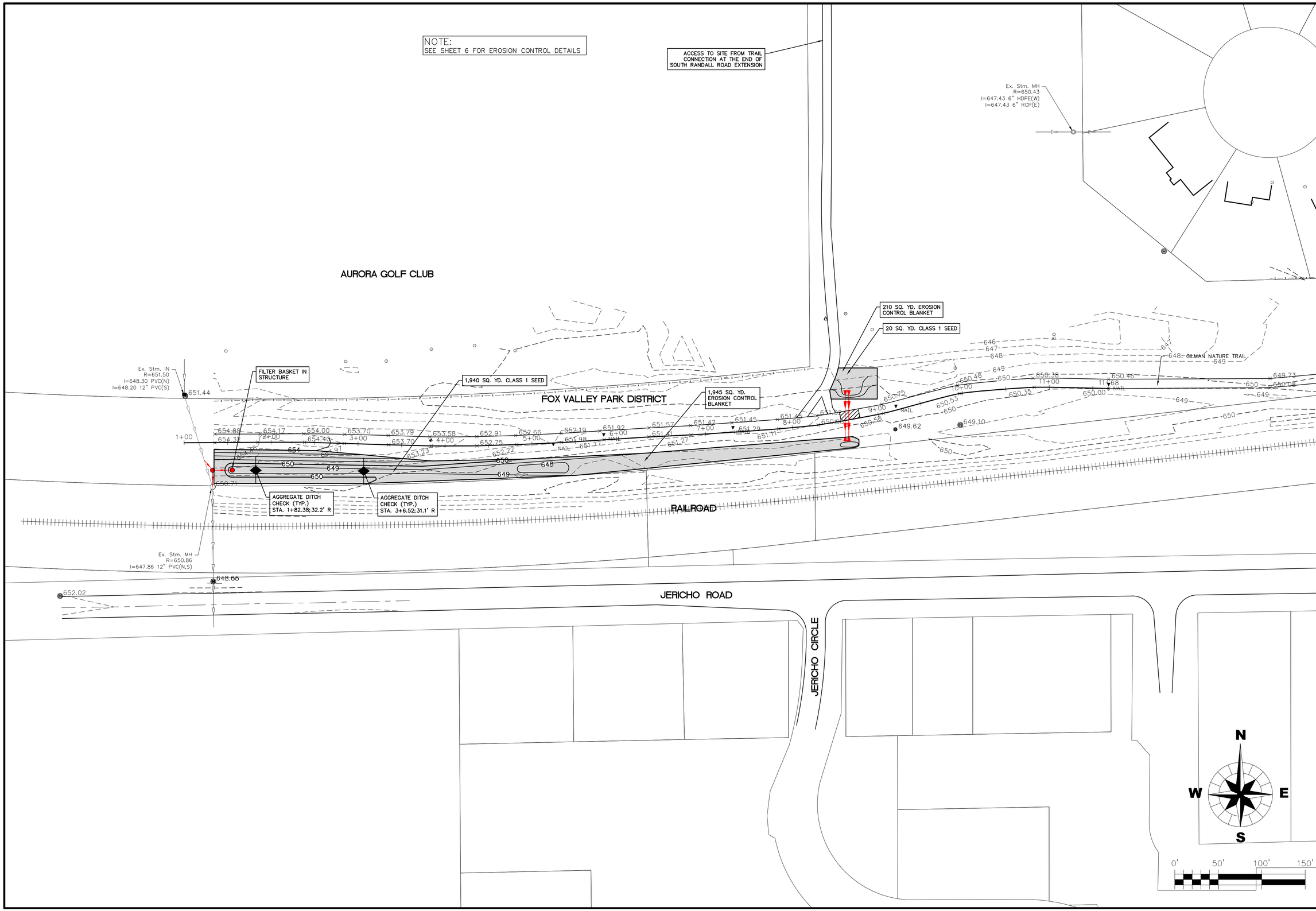
DRAWING NO. GR

SHEET:

4 OF 6

UPDATED: 2/11/2020 - GPADGE

NOTE:
SEE SHEET 6 FOR EROSION CONTROL DETAILS



TITLE: GOLFVIEW DRAINAGE IMPROVEMENTS

SOIL EROSION SEDIMENTATION CONTROL PLAN

DSGN.	JWW
DWN.	GMP
CHKD.	CHK
SCALE : AS NOTED	
SESC190208.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KANE COUNTY WATER RESOURCES
719 BATAVIA AVENUE
GENEVA IL. 60134
630-232-3499

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 190208

DATE : 11-18-2019

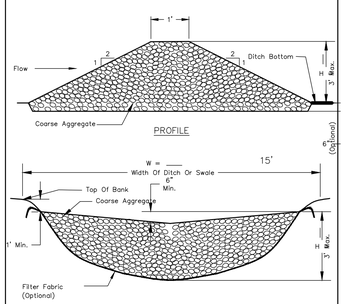
DRAWING NO. **SESC**

SHEET:

5 OF 6

W:\Projects\2019\190208 GolfviewReliefStormSewer\cadd\ACADCivil3D\190208\dwg\Sheet Drawings\SESC190208.dwg, 2/12/2020 12:59:25 PM , Adobe PDF.pc3

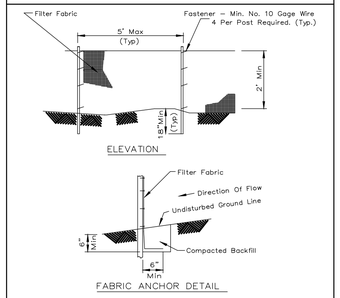
ROCK CHECK DAM - COARSE AGGREGATE



NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II, or IV and shall be placed over the cleared area prior to the placing of rock.
2. Coarse aggregate shall meet one of the following IDOT gradations, CA-1, CA-2, CA-3, or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. For added stability, the base of the dam may be keyed 6 inches into the soil.
4. See plans for spacing of dams and H dimensions.
5. Drainage area to each dam shall be less than 2 acres.
6. Use ROCK CHECK DAM-RIPRAP IL-605R for drainage areas of 2 to 10 acres.

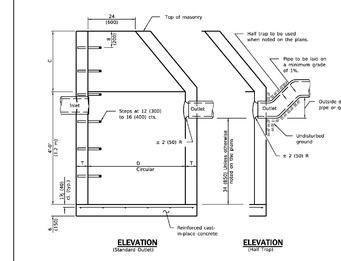
REFERENCE			NRCS Natural Resources Conservation Service	STANDARD DWG. NO.
Project				IL-605CA
Designed		Date		SHEET 1 OF 1
Checked		Date		DATE 1-29-99
Approved		Date		

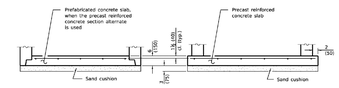
SILT FENCE PLAN



NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class III with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE				STANDARD DWG. NO.
Project				NM-620
Designed		Date		SHEET 1 OF 2
Checked		Date		DATE 3-16-12
Approved		Date		





ALTERNATE BOTTOM SLAB

ALTERNATE MATERIALS FOR WALLS	D	C*	T (min.)
Concrete Masonry Unit	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	5 (125) 5 (125)
Brick Masonry	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	8 (200) 8 (200)
Precast Reinforced Concrete Section	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	4 (100) 5 (125)
Cast-in-place Concrete	4'-0" (1.2 m) 5'-0" (1.5 m)	30 (750) 3'-9" (1.15 m)	6 (150) 6 (150)

* For precast reinforced concrete sections, dimension "C" may vary from the dimension given to plus 6 (150).

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.20 sq. in/ft (420 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602601 for optional precast reinforced concrete flat slab top.

See Standard 602701 for details of steps.

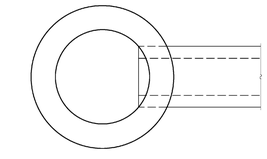
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014
Ted Leach
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014
Paul Wiedmann
ENGINEER OF BRIDGES AND TUNNELS
APPROVED January 1, 2014
Kevin Hamer
ENGINEER OF DESIGN AND ENVIRONMENT
GI-11 (TRANS)

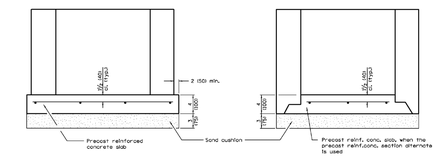
DATE	REVISIONS
1-1-11	Added "Outside" to half trap note. Detail min. in sketch.
	Revised general notes.
1-1-09	Switched units to English (metric).

CATCH BASIN TYPE A

STANDARD 602001-02



ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8 (200)
CAST-IN-PLACE CONCRETE	6 (150)
CONCRETE MASONRY UNIT	5 (125)
PRECAST REINFORCED CONCRETE SECTION	3 (75)



ALTERNATE METHODS

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.24 sq. in/ft. (510 sq. mm/m) in both directions with a maximum spacing of 12 (305).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

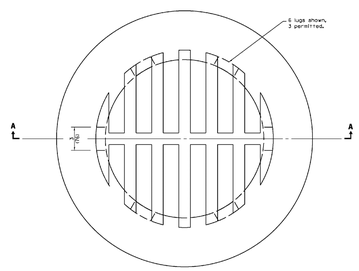
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014
Ted Leach
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014
Paul Wiedmann
ENGINEER OF BRIDGES AND TUNNELS
APPROVED January 1, 2014
Kevin Hamer
ENGINEER OF DESIGN AND ENVIRONMENT
GI-11 (TRANS)

DATE	REVISIONS
1-1-14	Increased height to 72 (1800) maximum.
1-1-11	Detailed rebars in slabs. Added max. inlet to height.
	Added general notes.

INLET - TYPE A

STANDARD 602301-04



CAST GRATE

SECTION A-A

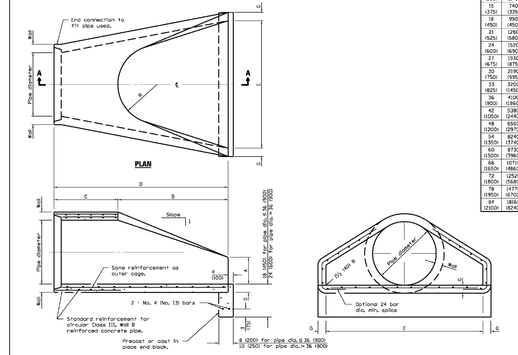
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014
Ted Leach
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014
Paul Wiedmann
ENGINEER OF BRIDGES AND TUNNELS
APPROVED January 1, 2014
Kevin Hamer
ENGINEER OF DESIGN AND ENVIRONMENT
GI-11 (TRANS)

DATE	REVISIONS
1-1-15	Revised dimensions.
1-1-09	Switched units to English (metric).

GRATE TYPE 8

STANDARD 604036-03



PIPE DIA.	APPROX. WT., lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (50)	4 (102)	24 (610)	4'-0¼" (1,210 m)	6'-0¾" (1,851 m)	24 (610)	2 (51)	7 (229)	1:2.4
15 (375)	740 (335)	2¼ (57)	6 (152)	27 (686)	3'-10" (1,168 m)	6'-1" (1,854 m)	30 (762)	2½ (57)	11 (280)	1:2.4
18 (450)	990 (450)	2½ (64)	9 (229)	27 (686)	3'-10" (1,168 m)	6'-1" (1,854 m)	36 (914)	2½ (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2¾ (70)	9 (229)	35 (889)	3'-8" (1,118 m)	8'-1" (2,464 m)	3'-6" (1,067 m)	2¾ (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	10½ (267)	3'-3½" (1,000 m)	3'-10" (1,168 m)	8'-10½" (2,692 m)	4'-0" (1,219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3¼ (82)	10½ (267)	3'-3½" (1,000 m)	4'-3½" (1,308 m)	9'-10½" (2,997 m)	4'-6" (1,372 m)	3¼ (82)	14½ (368)	1:2.4
30 (750)	2190 (995)	3½ (89)	12 (305)	4'-6" (1,372 m)	4'-10½" (1,486 m)	11'-1½" (3,384 m)	5'-0" (1,524 m)	3½ (89)	16 (381)	1:2.5
33 (825)	2550 (1,450)	3¾ (95)	13½ (343)	4'-10½" (1,486 m)	5'-3½" (1,613 m)	12'-4½" (3,765 m)	5'-6" (1,676 m)	3¾ (95)	17½ (445)	1:2.5
36 (900)	4100 (1,860)	4 (102)	15 (381)	5'-3" (1,6 m)	5'-9½" (1,765 m)	13'-8" (4,166 m)	6'-0" (1,829 m)	4 (102)	20 (508)	1:2.5
42 (1,050)	5380 (2,440)	4½ (114)	21 (533)	5'-3" (1,6 m)	6'-9" (2,059 m)	15'-9" (4,801 m)	6'-6" (1,981 m)	4½ (114)	22 (559)	1:2.5
48 (1,200)	6950 (2,970)	5 (127)	24 (610)	6'-0" (1,829 m)	7'-6" (2,286 m)	17'-6" (5,334 m)	7'-0" (2,134 m)	5 (127)	22 (559)	1:2.5
54 (1,350)	8240 (3,740)	5½ (140)	27 (686)	5'-9" (1,753 m)	8'-3" (2,515 m)	19'-3" (5,867 m)	8'-4" (2,286 m)	5½ (140)	24 (610)	1:2.0
60 (1,500)	9960 (4,960)	6 (152)	30 (889)	6'-6" (1,524 m)	9'-0" (2,743 m)	21'-0" (6,401 m)	9'-0" (2,743 m)	6 (152)	*	1:1.9
66 (1,650)	10710 (4,860)	6½ (165)	32 (762)	6'-10" (2,829 m)	27 (686)	9'-3" (2,515 m)	9'-8" (2,438 m)	5½ (140)	*	1:1.7
72 (1,800)	12520 (5,680)	7 (178)	36 (914)	6'-6" (1,981 m)	21 (533)	9'-3" (2,515 m)	9'-0" (2,743 m)	6 (152)	*	1:1.8
78 (1,950)	14770 (6,700)	7½ (190)	36 (914)	7'-6" (2,286 m)	21 (533)	9'-3" (2,819 m)	9'-6" (2,896 m)	6½ (165)	*	1:1.8
84 (2,100)	16860 (8,240)	8 (203)	36 (914)	7'-10½" (2,394 m)	21 (533)	9'-3½" (2,832 m)	10'-0" (3,048 m)	6½ (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

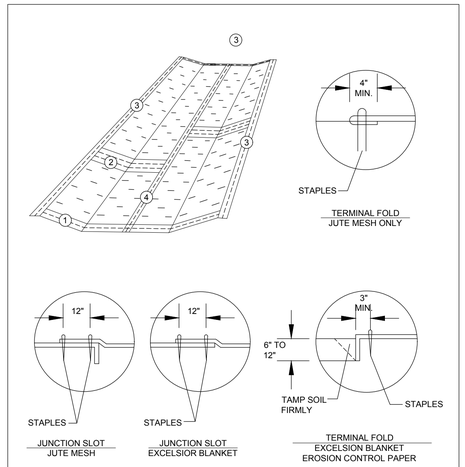
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014
Ted Leach
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014
Paul Wiedmann
ENGINEER OF BRIDGES AND TUNNELS
APPROVED January 1, 2014
Kevin Hamer
ENGINEER OF DESIGN AND ENVIRONMENT
GI-11 (TRANS)

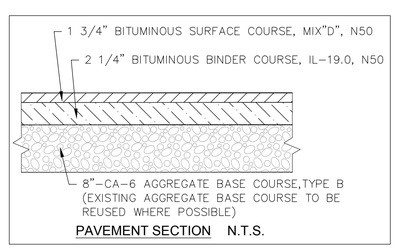
DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia. in Section A-A. Changed "Inner" to "outer cage ref.
1-1-09	Switched units to English (metric).

PRECAST REINFORCED CONCRETE FLARED END SECTION

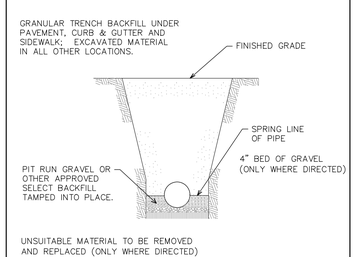
STANDARD 542301-03



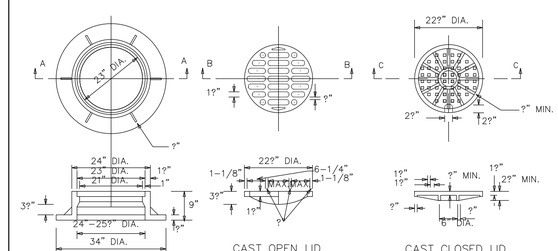
EROSION BLANKET DETAIL



PAVEMENT SECTION N.T.S.



STORM SEWER TRENCH CROSS-SECTION
N.T.S.



THE OPEN AND CLOSED LIDS MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON, CONFORMING TO THE STANDARD SPECIFICATIONS. DUCTILE IRON CASTINGS SHALL BE GRADE 60-40-18, AND SHALL BE PROOF LOADED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS RR-F-621B, SECTION 3.8. THE PROOF LOAD SHALL BE 25,000 LBS. ON A 9"x9" CAST BLOCK.

WHERE CLEARANCE DOES NOT PERMIT USE OF A 9" FRAME, AN ALTERNATE EQUIVALENT 6" OR 7" HEAVY DUTY FRAME MAY BE SUBSTITUTED.

DETAIL OF TYPE 1 FRAME & LIDS
N.T.S.

SEE UTILITY PLANS AND SPECIFICATIONS FOR FRAME AND LID TYPE.

TITLE: **GOLFVIEW DRAINAGE IMPROVEMENTS**

DETAILS

DSGN.	JWW
DWN.	GMP
CHKD.	CHK
SCALE : AS NOTED	
DT190208.DWVG	

NO.	DATE	NATURE OF REVISION

CLIENT: **KANE COUNTY WATER RESOURCES**
719 BATAVIA AVENUE
GENEVA IL. 60134
630-232-3499

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755
WBK engineering

PROJECT NO. 190208
DATE : 11-18-2019
DRAWING NO. DT
SHEET:
6 OF 6

W:\Projects\2019\190208 GolfviewReliefStormSewer\cadd\ACADCiv3D\190208.dwg\Sheet Drawings\DT190208.dwg, 2/12/2020 12:59:28 PM, Adobe PDF.pc3

Engineer's Opinion of Probable Construction Costs
Golfview Drainage Improvements
Bid 20-XX
3/25/2020

Route
County: Kane
Local Agency: City of Aurora

RETURN WITH BID

(For complete information covering these items, see plans and specifications)

NO.	ITEM	UNIT	QUANTITY	UNIT COST	AMOUNT
Phase 1 - Storm Sewer Improvements					
1	Tree Removal	LS	1.00	$2,500.00	$2,500.00
2	Earth Excavation	CY	50	$40.00	$2,000.00
3	Select Granular Trench Backfill	CY	6	$25.00	$150.00
4	Unsuitable Soil Removal and Replacement	CY	10	$50.00	$500.00
5	Storm Sewer - 12" PVC	LF	15	$80.00	$1,200.00
6	Storm Sewer - 18" RCP	LF	114	$100.00	$11,400.00
7	Storm Sewer - 24" RCP	LF	16	$150.00	$2,400.00
8	18" Flared End Section, RCP	EA	4	$1,000.00	$4,000.00
9	Grating for Concrete Flared End Sections, 18"	EA	4	$500.00	$2,000.00
10	Storm Inlet, Ty A, 2' dia.	EA	1	$1,300.00	$1,300.00
11	Storm Catch Basin, Ty A, 5' dia.	EA	1	$5,000.00	$5,000.00
12	Connect to Existing Structure	EA	1	$5,000.00	$5,000.00
13	Connect to Existing Drain Tile	EA	1	$1,000.00	$1,000.00
14	Field Adjustments to Proposed Storm Structures	EA	1	$750.00	$750.00
15	Seeding - Aurora Mix	SY	920	$8.00	$7,360.00
16	Traffic Control and Protection	LS	1	$5,000.00	$5,000.00
17	Inlet Protection	EACH	6	$150.00	$900.00
18	Aggregate Ditch Check	EACH	1	$1,500.00	$1,500.00
19	Dewatering Bag	EACH	1	$500.00	$500.00
20	Items Ordered by Engineer	Allowance	1	**$7,000.00**	**$7,000.00**
21	Temporary Staging	CY	20	$20.00	$400.00
22	Non-Special Waste Disposal	TON	140	$50.00	$7,000.00
23	Special Waste Disposal	CY	10	$50.00	$500.00
24	HMA Bike Path Rem. and Replace, 2.25" Binder & 1.75" Surface	SY	26	$150.00	$3,900.00
	Subtotal for Phase 1 Storm Sewer Improvements =				**$73,260.00**
Phase 2 - Ditch Grading Improvements					
25	Tree Removal	LS	1.00	$7,500.00	$7,500.00
26	Earth Excavation	CY	525	$40.00	$21,000.00
27	Seeding - Aurora Mix	SY	1,850	$8.00	$14,800.00
28	Traffic Control and Protection	LS	1	$7,500.00	$7,500.00
29	Inlet Protection	EACH	6	$150.00	$900.00
30	Aggregate Ditch Check	EACH	2	$1,500.00	$3,000.00
31	Dewatering Bag	EACH	1	$500.00	$500.00
32	Items Ordered by Engineer	Allowance	1	**$10,000.00**	**$10,000.00**
33	Temporary Staging	CY	20	$20.00	$400.00
34	Non-Special Waste Disposal	TON	710	$50.00	$35,500.00
35	Special Waste Disposal	CY	10	$50.00	$500.00
	Subtotal for Phase 2 Ditch Grading Improvements =				**$101,600.00**
	Total EOPC Phase 1 and 2 =				**$174,860.00**
HMA Bike Path Replacement Entire Disturbed Area					
36	HMA Bike Path Rem. and Replace, 2.25" Binder & 1.75" Surface	SY	900	$45.00	$40,500.00
	Subtotal for HMA Bike Path Replacement Entire Disturbed Area =				**$40,500.00**
	Total EOPC Phase 1 and 2 and Bike Path Replacement =				**$215,360.00**

Golfview Park Aurora CC
RR and Jericho Culvert- Jack and Bore/Open Cut

Pay Item	Quantity	Unit	Unit Cost	Total
MOBILIZATION	1	L SUM	$ 15,000.00	$ 15,000.00
RR COORDINATION	1	L SUM	$ 10,000.00	$ 10,000.00
TRAFFIC CONTROL AND PROTECTION	1	L SUM	$ 4,000.00	$ 4,000.00
JACK AND BORE 42"- RCP (3 barrel culvert under RR)	300	FOOT	$ 525.00	$ 157,500.00
42" RCP	210	FOOT	$ 145.00	$ 30,450.00
CONCRETE JUNCTION BOX	2	EACH	$ 18,000.00	$ 36,000.00
RESTORATION	1	L. SUM	$ 20,000.00	$ 20,000.00

Subtotal =	$ 272,950.00
25% Contingency =	$ 68,237.50
Construction Subtotal	**$ 341,187.50**
8% Design Engineering =	$27,295.00
Geotechnical Boring=	$12,000.00
10% Construction Engineering =	$34,118.75