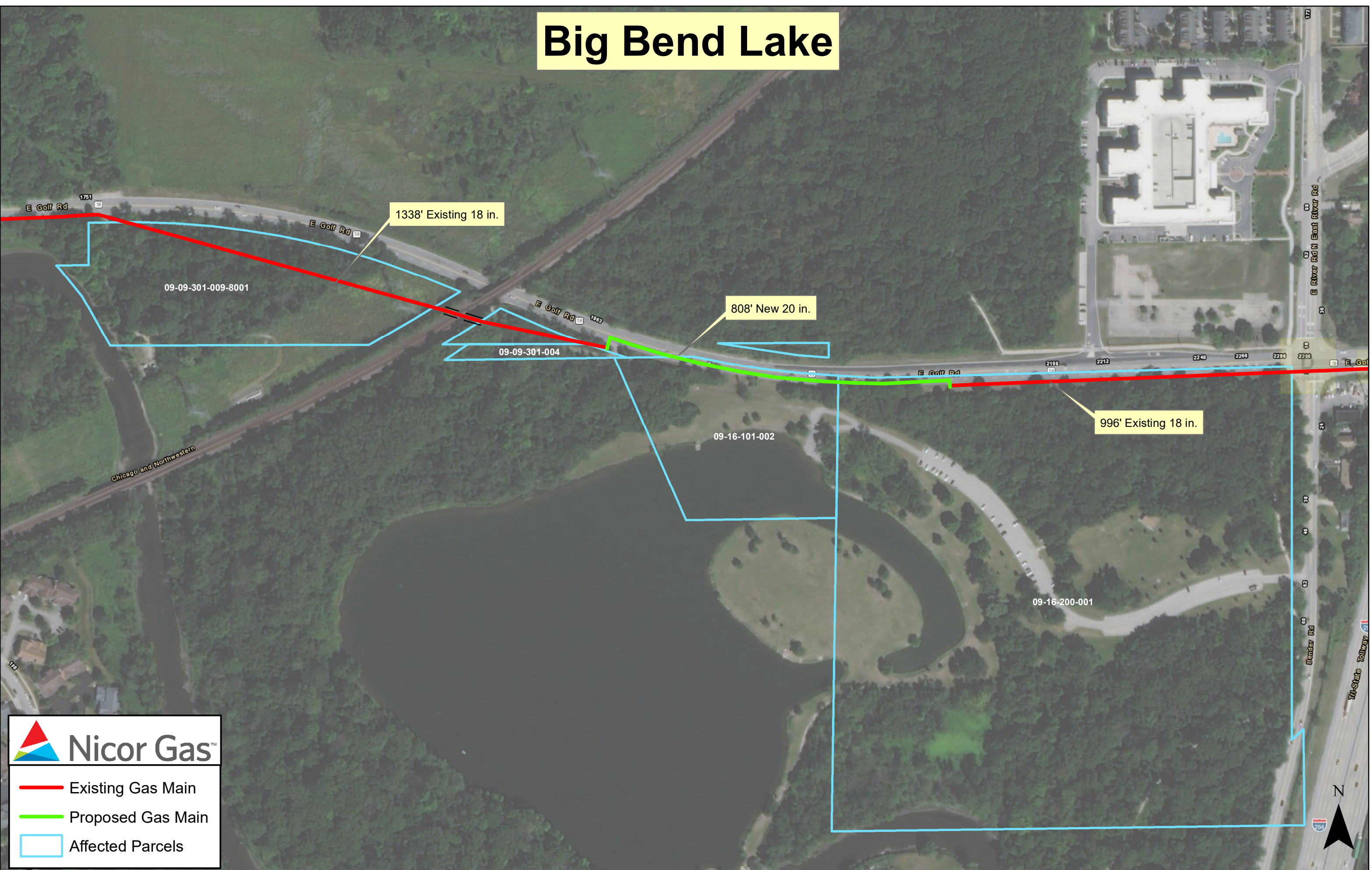


Big Bend Lake



Nicor Gas™


- Existing Gas Main
- Proposed Gas Main
- Affected Parcels






Harms Woods South

2641' Existing 18 in.



 **Nicor Gas™**

-  Existing Gas Main
-  Proposed Gas Main
-  Affected Parcels

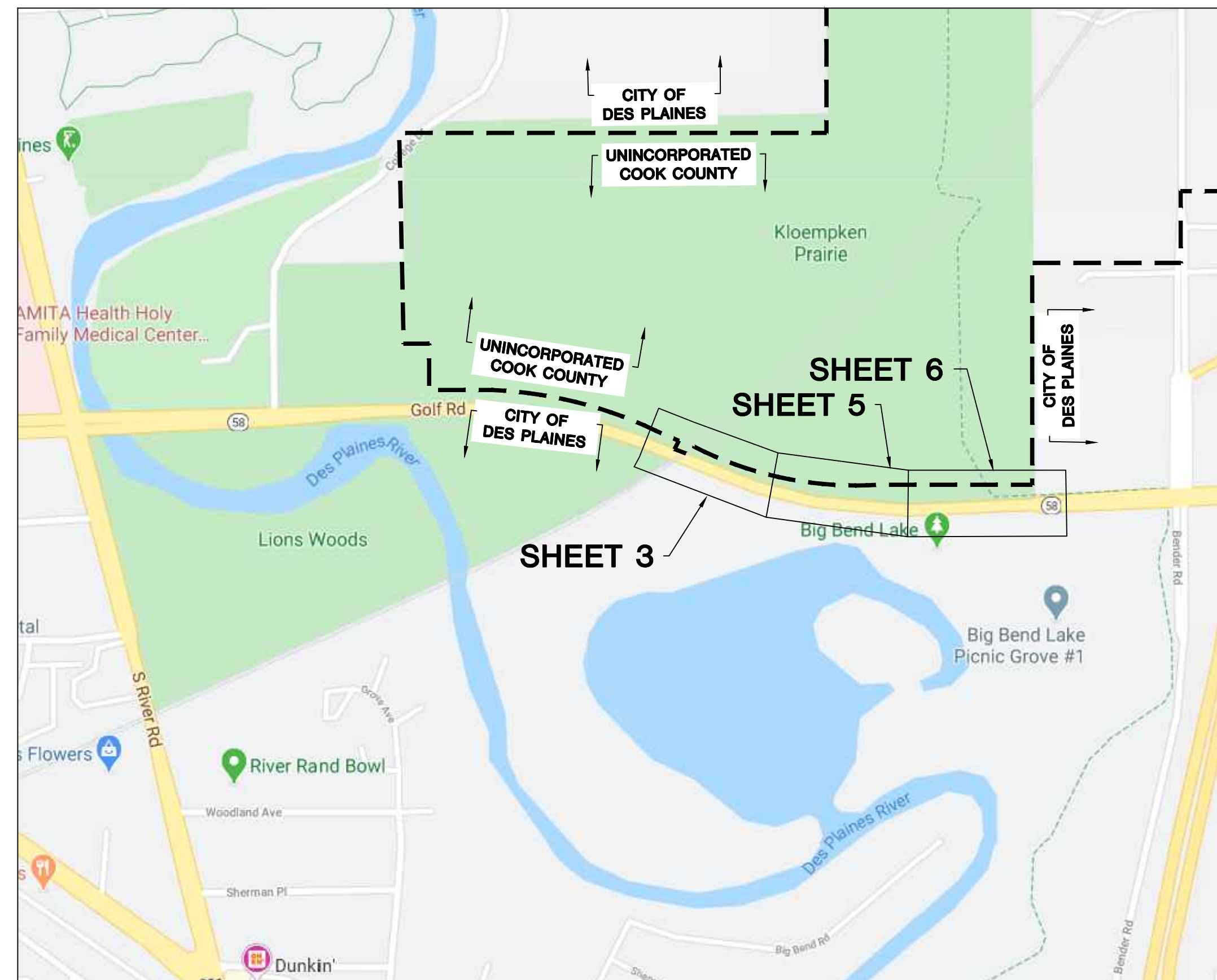
NICOR GAS - CONSTRUCTION

M11201 - PUBLIC IMPROVEMENT FOR IDOT-1

GOLF ROAD (IL ROUTE 58)

DES PLAINES, ILLINOIS

W.O. 120397/320397



N
LOCATION MAP
(NOT TO SCALE)

25964

GENERAL NOTES:

1. CONTRACTOR TO INSTALL THE PROPOSED GAS MAIN TO THE ELEVATIONS SHOWN ON THE PLANS USING THE BENCHMARKS PROVIDED. APPROXIMATE COVER SHOWN AFTER THE REQUIRED ELEVATION IS FOR INFORMATION PURPOSES ONLY.
2. BACKFILL WITH SAND WHERE PIPE TRENCH IS UNDER OR WITHIN 2' OF PAVEMENT, CURB, OR SIDEWALK.
3. INSTALL PROPOSED MAIN USING ROAD STATIONING WHERE GIVEN. OTHER DIMENSIONS ARE FOR MAPPING PURPOSES ONLY.
4. ALL RIGHT-OF-WAY MUST BE STAKED AND STATIONING PROVIDED BEFORE GAS MAIN CAN BE INSTALLED.
5. INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 AND 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD AND RAILROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
6. INSTALL ALL MAIN WITH A MINIMUM COVER OF 3' UNLESS OTHERWISE NOTED.
7. PIPE CONTRACTOR SHALL INSTALL THE PROPOSED GAS MAINS CROSSING CONCRETE, ASPHALT, MACADAM, OR OTHER HARD SURFACED PAVEMENTS, WALKS, OR DRIVEWAYS BY BORING OR PUSHING UNLESS OTHERWISE SPECIFIED. CONTRACTOR WILL INSTALL A TEMPORARY PATCH PER GAS CONSTRUCTION SPECIFICATIONS FOR CONTRACTORS. PERMANENT REPAIRS TO BE COMPLETED BY OTHERS.
8. CONTRACTOR SHALL FURNISH AND INSTALL ALL CAPS AND OTHER FITTINGS NECESSARY FOR TESTING THE MAIN.
9. ALL 8" AND LARGER STEEL PIPE THAT IS BORED MUST BE DUAL COATED.
10. PLUG AND/OR CAP RETIRED 6" AND LARGER MAINS EVERY 660' PER GCS 849.
11. RETIRE OLD MAIN PER GCS 849.
12. IT IS THE RESPONSIBILITY OF THE NICOR GAS INSPECTOR, CONTRACTOR, AND ANYONE INVOLVED IN THE CONSTRUCTION OF THE FACILITIES TO FOLLOW THE LATEST NICOR GAS GMS AND GCS SPECIFICATIONS. CONTACT NICOR'S TECHNICAL SERVICES DEPARTMENT FOR A COPY OF THE LATEST EDITION.
13. COORDINATE WITH NICOR GAS INSPECTOR FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO STARTING ANY EXCAVATION. EXERCISE CARE WHEN EXCAVATING NEAR EXISTING STRUCTURES.
14. ANY PROPOSED DIRECTIONALLY BORED PIPE TO BE INSTALLED PER NICOR GAS DIRECTIONAL BORING GUIDELINES DATED DECEMBER 15, 2005.
15. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE CONTRACTOR SHALL CONTACT J.U.L.I.E. AND LOCAL GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION FOR ALL UTILITY LOCATIONS.
16. REMOVE TOP SECTION OF THE VALVE BOX FROM VALVES ON THE RETIRED MAIN. BACKFILL WITH SAND AND MATCH EXISTING PAVEMENT IF APPLICABLE.
17. IT IS THE RESPONSIBILITY OF THE CREW (INTERNAL OR CONTRACTOR) INSTALLING THE GAS FACILITIES TO LOCATE ALL SEWER MAINS AND LATERALS WITHIN THE SCOPE OF THE PROJECT. NO BORING, DIRECTIONAL DRILLING OR OTHER TRENCH LESS CONSTRUCTION METHODS SHALL BE EMPLOYED WITHOUT EITHER LOCATING SEWERS OR OBTAINING PROOF OF SEPTIC SYSTEMS. THE USE OF A SONDE DEVICE (CALIBRATED DAILY) IS RECOMMENDED FOR LOCATING THE SEWER FACILITIES. SPOTTING OF SEWER FACILITIES IS REQUIRED IF A SONDE DEVICE IS NOT USED (HOWEVER, SPOTTING OF FACILITIES MAY STILL BE REQUIRED WHEN USING A SONDE DEVICE). PROPER CLEARANCE OF GAS FACILITIES AND SEWER MAINS/LATERALS SHALL BE MAINTAINED PER GCS 700 SECTION 10.
18. CONTACT INFO:
NICOR GAS: MUNOZ, PATRICIO (CONSTRUCTION OPERATIONS SUPERINTENDENT) PHONE: (708) 259-0939 EMAIL: PMUNOZ@SOUTHERNCO.COM
ILLINOIS DEPARTMENT OF TRANSPORTATION: PETERSEN, TYLER (AREA UTILITY COORDINATOR) PHONE: (847) 705-4578 EMAIL: TYLER.PETERSEN@ILLINOIS.GOV

ENVIRONMENTAL NOTES:

1. PCB WIPE SAMPLES, PERFORMED BY NICOR GAS EMPLOYEES, ARE REQUIRED FOR ALL 4" AND LARGER PIPE THAT IS RETIRED OR REMOVED ON THIS WORK ORDER. DIRECT QUESTIONS ON PCB WIPE SAMPLE PROCEDURES TO THE SYSTEM OPERATIONS DEPARTMENT OR KEITH BODGER (630-514-7589) IN ENVIRONMENTAL AFFAIRS (EA).
2. COLLECT AND PROPERLY DISPOSE OF ALL LIQUIDS FROM PIPELINES BEING RETIRED.
3. IN THE EVENT OF A SPILL, PLEASE IMMEDIATELY CALL DISPATCH (630-317-9111) AND ASK FOR THE ON-CALL ENVIRONMENTAL REPRESENTATIVE.
4. ANY RETIRED PIPE THAT MUST BE REMOVED FROM THE SITE SHOULD HAVE THE ENDS COVERED WITH PLASTIC OR SIMILAR MATERIAL UNTIL THE PCB WIPE SAMPLE LAB RESULTS ARE KNOWN. INDICATE ON THE "NICOR GAS PCB SAMPLE INFORMATION FORM" WHERE ANY PIPE REMOVED FROM THE SITE IS BEING TEMPORARILY LOCATED.
5. IF ASBESTOS COAL WRAP IS IDENTIFIED, REFER TO ASBESTOS COAL TAR WRAP REMOVAL GUIDELINES. REMOVAL MUST BE COMPLETED BY A TRAINED EMPLOYEE. FOR ANY QUESTIONS OF PROCEDURE OR TRAINED EMPLOYEES, CALL SCOTT MURPHY (630-392-7033) IN THE SAFETY DEPT.
6. IF CONTAMINATED SOIL IS SUSPECTED, CALL KEITH BODGER (630-514-7589) IN EA FOR REGULATORY COMPLIANCE INSTRUCTION.
7. ALL WETLANDS SHOULD BE IDENTIFIED ON THESE WORK ORDER DRAWINGS. WETLANDS AND WATERBODIES ARE GENERALLY LABELED AS "SITES." IF THERE IS A QUESTION ABOUT THE WETLAND BOUNDARIES OR BUFFERS, PLEASE CALL EA (JULIE PASCHAL AT 630-392-7013 OR ALICIA BISHOP 224-268-7283).
8. IF THE PROJECT HAS ENVIRONMENTAL PERMITS AND/OR A GREEN BINDER, THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE NICOR GAS STORM WATER POLLUTION PREVENTION PLAN FOR THE PROJECT. IF THERE ARE QUESTIONS, PLEASE CALL EA (JULIE PASCHAL AT 630-392-7013 OR ALICIA BISHOP 224-268-7283).
9. IF A FRAC OUT OCCURS DURING DIRECTIONAL DRILLING, THE CONTRACTOR IS RESPONSIBLE FOR STOPPING THE BORE, CONTAINING THE FRAC OUT MATERIAL, AND IMMEDIATELY CONTACTING EA (JULIE PASCHAL AT 630-392-7013 OR ALICIA BISHOP 224-268-7283). AFTER CONTAINING THE MATERIAL AND CONTACTING EA, THE CONTRACTOR MUST REMOVE THE FRAC OUT MATERIAL.
10. REFUEL AND STORE EQUIPMENT A MINIMUM OF 100 FEET FROM WETLANDS OR WATER BODIES.
11. INSTALL SOIL AND EROSION CONTROL PROTECTION TO PROTECT ANY OPEN GRATED STRUCTURES, I.E. INLETS, CATCH BASINS, OR MANHOLES WITHIN OR ADJACENT TO THE PROJECT AREA THAT ARE NEAR DISTURBED SOIL.
12. WHEN DEWATERING, DIRECT WATER TO A FLAT, UPLAND AREA TO ALLOW WATER TO SOAK INTO THE GROUND AND/OR USE FILTER BAGS AND WOOD FIBER LOGS TO REMOVE SOIL/SEDIMENT FROM THE WATER. NO SEDIMENT LADEN WATER IS ALLOWED TO ENTER INLETS, WETLANDS, WATER BODIES, ETC.
13. IF MUD IS BEING TRACKED ON THE STREETS BY EQUIPMENT AND/OR VEHICLES, DAILY STREET SWEEPING WILL BE REQUIRED.
14. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONTOURS AND CONDITIONS. RESTORATION MUST BE INITIATED WITHIN 1 DAY DEPENDING ON PERMIT CONDITIONS.

BENCHMARKS		
TBM #1	BENCHMARK LOCATED AT: 42°03'28" N, 87°53'20" W	ELEV = 645.0

TOTAL PIPE REMOVAL QUANTITIES		
TOTAL PIPE REMOVAL		
18" PIPE		140'
TOTAL TRENCH BACKFILL*		95 C.Y.
TOTAL ASPHALT & CONCRETE BREAKS*		0 SQ.FT.

*TRENCH BACKFILL AND PAVEMENT BREAK QUANTITIES NOT INCLUDED IN WORK ORDER QUANTITIES

TOTAL WORK ORDER QUANTITIES			
TOTAL PIPE INSTALLATION			
20" PIPE X52 CS FBE POWERCRETE + INTERNAL COATING 0.375" WT	ESTIMATED	ACTUAL	
1055'	1055'		
20" LINE VALVE TAG#	1		
TOTAL PIPE RETIREMENT			
18" STEEL (1946)	ESTIMATED	ACTUAL	
960'	960'		
18" STEEL (1979)	20'		
TOTAL PIPE BORING			
20" BORING	ESTIMATED	ACTUAL	
950'	950'		
TOTAL TRENCH BACKFILL			
205 C.Y.			
TOTAL ASPHALT & CONCRETE BREAKS			
1425 SQ. FT.			
TOTAL SERVICE TRANSFERS			
0			

LOCATION: GOLF ROAD IN DES PLAINES, IL W.O. 120397/320397 P.O. BILL OF MATERIALS						
PLAN QTY.	P.O. QTY.	UNIT	ITEM DESCRIPTION	CLASS/RATING	REQ #	P.O. #
1	1	EA	18" ANSI-300 SPHERICAL 3-WAY TEE SIDE OUT STD WALL	ANSI 300	25643	38626
1	1	EA	18" ANSI-300 SPHERICAL 3-WAY TEE BOTTOM OUT STD WALL	ANSI 300	25643	38626
1	1	EA	18" TEE STR W CS 0.375" WT Y52	Y52	25964	39004
3	3	EA	18" CAP CS W 0.375" WT Y52	Y52	25964	39004
2	2	EA	SPHERICAL TEE TAPPING/STOPPING SERVICES	-	25643	38626
1055'	1200'	FT	20" PIPE X52 CS FBE POWERCRETE + IC 0.375" WT	X52	26578	39845
1	1	EA	20" BALL VALVE, GROVE MODEL B5, WXW, 0.375" WT, ANSI 600	ANSI 600	25965	39005
2	2	EA	20"x18" RED CONC CS W 0.375"x0.375" WT Y52	Y52	25964	39004
0	2	EA	20" 90° ELL SR CS W 0.375" WT Y52 (SEGMENTABLE)	Y52	25964	39004
7	8	EA	20" 90° ELL SR CS W 0.375" WT Y52	Y52	25964	39004
6	6	EA	18" RUN x 1-1/2" BRANCH, WELDOLET, STD STEEL	GR-B	26005	39000
2	2	EA	18" RUN x 1-1/4" BRANCH, WELDOLET, STD STEEL	GR-B	26005	39000
23	23	ROLLS	SCAR-GUARD, 13MIL, 8-LAYER (SYNTHO SLEEVES)	-	25966	39006
2	2	EA	20" CAP CS W 0.375" WT Y52	Y52	25964	39004
2	2	EA	20" x 2" THREAD-O-LET 3000#	3000#	26005	39000
2	2	EA	2" x 3" NIPPLE, CS, TBE, XS, A106, GR-B	GR-B	26005	39000
2	2	EA	2" BALL VALVE FEMALE, NPT, 3000#	3000#	26005	39000

IDENTIFIED BY NICOR UTILITY INSPECTOR					COMPLETED BY NICOR GAS*	
WIPE TEST #	WORK ORDER PAGE	TEST LOCATION	PIPE SIZE	PIPE MATERIAL	DATE TEST COMPLETED	COMMENTS

*TYPICALLY COMPLETED BY UTILITY INSPECTOR

NOTE:

NICOR UTILITY INSPECTOR TO IDENTIFY TEST LOCATIONS BASED UPON THE CRITERION OF ONE TEST FOR EACH "CUT AND CAP" ON PIPE THAT MEASURES FOUR INCHES IN DIAMETER OR GREATER. EN ENGINEERING AND NICOR GAS UNDERSTAND THAT FIELD PERSONNEL MAY DECIDE TO MOVE "CUT AND CAP" LOCATIONS, DELETE "CUT AND CAPS", OR CONDUCT ADDITIONAL "CUT AND CAPS". EN ENGINEERING UNDERSTANDS THAT NICOR GAS WILL INCLUDE WIPE TESTS AS PART OF THEIR ROUTINES TO COMPLETE A "CUT AND CAP" AND IT IS THE RESPONSIBILITY OF NICOR GAS TO ASSURE THAT NECESSARY WIPE TESTS ARE CONDUCTED AS REQUIRED BY FEDERAL REGULATIONS.

DRAWING - SHEET	DESCRIPTION
N14084D -- 1	LOCATION MAP
N14084D -- 2	SITE PLAN, TEST DATA AND SYMBOL LEGEND
N14084D -- 3	GOLF ROAD (IL ROUTE 58) (STA 123+00 TO STA 129+50)
N14084D -- 4	CALLOUTS FOR SHEET 3
N14084D -- 5	GOLF ROAD (IL ROUTE 58) (STA 129+50 TO STA 134+75)
N14084D -- 6	GOLF ROAD (IL ROUTE 58) (STA 134+75 TO STA 141+00)
N14084D -- 7	PROFILE VIEW - GOLF ROAD (STA 127+25 TO STA 137+75)
N14084D -- 8	CROSS SECTIONS - GOLF ROAD (IL ROUTE 58)
N14084D -- 9	DETAILS
N14084D -- 10	TEST DATA SHEET
N14084D -- 11	EROSION CONTROL NOTES, BENCHMARKS AND ENVIRONMENTAL DETAILS
N14084D -- 12	ENVIRONMENTAL DETAILS
N14084D -- 13	FPDCC TREE PROTECTION NOTES
N14084D -- 14	TREE SURVEY MAP
N14084D -- 15	TREE SURVEY DATA
N14084D -- 16	TREE REMOVAL COSTS

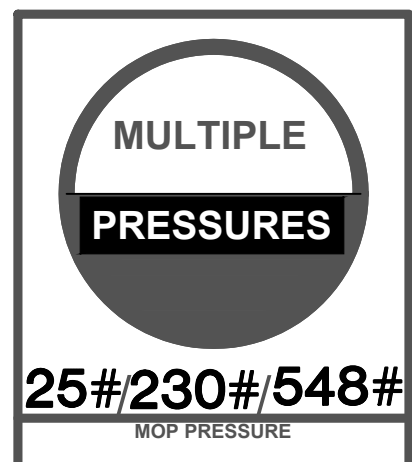
*MAINTENANCE OF TRAFFIC PLANS AND GEOTECHNICAL REPORT SEPARATE

REVISION 1

PROPOSED 20" MAIN & 18" AND 20" STEEL FITTINGS TO BE DESIGNED FOR 230 PSIG PER NICOR INTEGRITY MANAGEMENT. THIS DESIGN PRESSURE IS THE SAME AS THE 230 PSIG PRESSURE AT THE TIE-IN AS INDICATED ON PIPELINE ATLAS VIEWER.

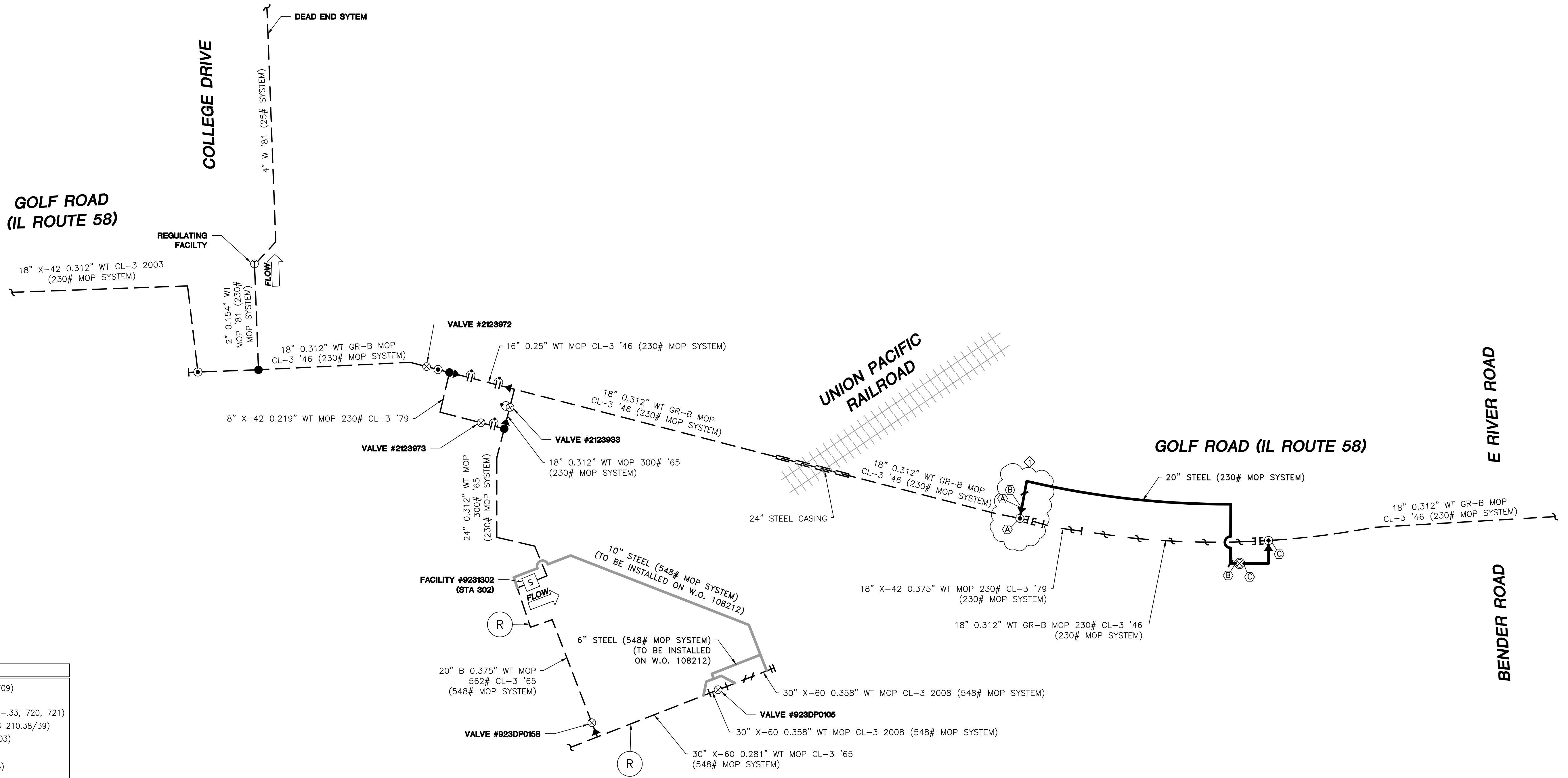
IDOT CONTRACT # 62F39

CONFLICTS WITH PROPOSED RETAINING WALLS

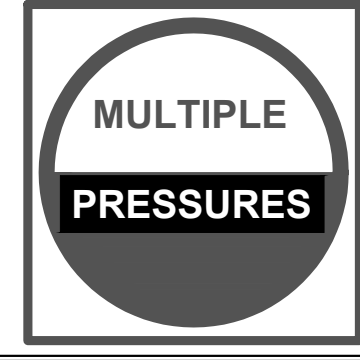


REQUIRED PERMITS APPROVAL BEFORE CONSTRUCTION	REQUIRED	APPROVED DATE
LAND SERVICES -- APPROVAL		
RAILROAD		
HIGHWAY, STATE		
HIGHWAY, COUNTY		
FOREST PRESERVE		
SANITARY DIST.		
PRIVATE PROP. EASEMENT		
FRONTAGE		
OTHER GOV. AGENCY		
ENVIRONMENTAL -- APPROVAL		
WATERWAYS		
WETLANDS		
CONTAMINATED SOIL		
STORM WATER		

SEALED BY: 	SEALED ON: 9/16/2021	PREPARED FOR: 			
SIGNATURE	LICENSE EXPIRATION: 11/30/2021	PREPARED BY: 28100 TORCH PARKWAY, STE. 400 WARRENVILLE, IL 60555 TEL. 630-353-4000 FAX 630-353-7777 WWW.ENENGINEERING.COM			
APPROVED FOR CONSTRUCTION		COUNTY: COOK TOWNSHIP: MAINE TOWN: DES PLAINES RANGE: 41N SECTION: 12E 3PM 1/4 SECTION: 084 093 161 162			
WORK ORDER NO. 120397/320397 NICOR JOB NO. M11201 SNE PROJECT NO. 1900001.71 SCALE: NOT TO SCALE DATE IN SERVICE:		REGION: METRO DEPARTMENT: CONST. ENGINEER/DESIGNER: R. SEERMON DATE: 02-10-20 DRAWN BY: R. AGUILAR CHECKED BY: L. SOJA DATE: 04-09-20 CORROSION: D. SMITH DATE: 04-14-20 APPROVED BY: M. BENESIEWICZ DATE: 04-23-20 DRAWING FILE NO. SHEET 1 OF 16 N14084D-			
REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE



SYMBOL LEGEND	
T	PURGE END (GCS 209 / 709)
AN	ANODE (GCS 513/514)
LT	LATERAL TEE (GCS 210 .21-.33, 720, 721)
PC	PRESSURE CNTL. FTG. (GCS 210.38/39)
TF	TRANSITION FITTING (GCS 703)
V	VALVE - GENERAL
R	REDUCER (GMS 308 & 336)
IC	INS. COUPLING (ETC)
WH	TIN WHISTLE (GMS 639.2, .3, .4)
DV	DUAL 5' x 5' VAULT
CA	CUT AND CAP (GCS 849)
RM	RETIRE MAIN (GCS 849)
EX	EXCAVATE AREA (GCS 870)
RS	REGULATING STATION
RG	RECTIFIED GAS MAIN (GCS 884)



TEST SECTION	DESCRIPTION	LEAK TEST PER GCS 887				STRENGTH TEST PER GCS 888				WELD INSPECTION PER GCS 861			FIELD RECORD PER GCS 880				
		TEST PRESSURE (PSI)	PRIOR TO STRENGTH	COMB W/ STRENGTH	MIN HOURS	TEST PRESSURE (PSI)	% SMYS AT TEST	TEST MEDIUM	ALLOWABLE ΔP (PSI) (>80# STS)	MIN HOURS	VISUAL	RADIOGRAPHIC (%)	OTHERS	SECTION	PIPE IDENTIFICATION *DATA CODE-STEEL MAIN ONLY		
A	18" STL	100	X	-	1	345	15.9	X	-	448	1	X	100	L,M	A	18"	
	5' 20" STL	100	X	-	1	345	17.7	17.7	X	-	448	1	X	100		A	20"
B	1025' 20" STL	100	-	X	2**	345	17.7	17.7	-	15524*	-	8	X	100		B	20"
C	18" STL	100	X	-	4	345	15.9	X	-	448	1	X	100	L,M	C	18"	
	30' 20" STL	100	X	-	1	345	17.7	17.7	X	-	448	1	X	100		C	20"
D	1 1/4" STL	100	X	-	1	345	4.3	X	-	-	1	X		L,M	D	1 1/4"	

*DO NOT HYDROTEST THROUGH PROPOSED PRESSURE CONTROL FITTINGS. CONFIRM ELEVATION CHANGE TO ENSURE ENTIRE LENGTH OF PROPOSED PIPE IS TESTED TO REQUIRED MINIMUM. TEST GAUGE TO BE AT HIGHEST PIPE ELEVATION. LOCATION TO BE DETERMINED IN FIELD AT TIME OF CONSTRUCTION.
 ** STABILIZATION OF TEST MEDIUM PRIOR TO COMBINED TEST (LEAK AND STRENGTH) IS REQUIRED. AFTER STABILIZATION, BUT PRIOR TO COMBINED TEST, HOLD PRESSURE AT 100 PSIG MINIMUM FOR 2 HOURS AND RECORD PRESSURE ON CHART.
 LEAK TEST AND STRENGTH TEST TIE-IN AND PURGE FITTINGS PER GCS 887 AND GCS 888.

PROPOSED 20" MAIN & 18" AND 20" STEEL FITTINGS TO BE DESIGNED FOR 230 PSIG PER NICOR INTEGRITY MANAGEMENT. THIS DESIGN PRESSURE IS THE SAME AS THE 230 PSIG PRESSURE AT THE TIE-IN AS INDICATED ON PIPELINE ATLAS VIEWER.

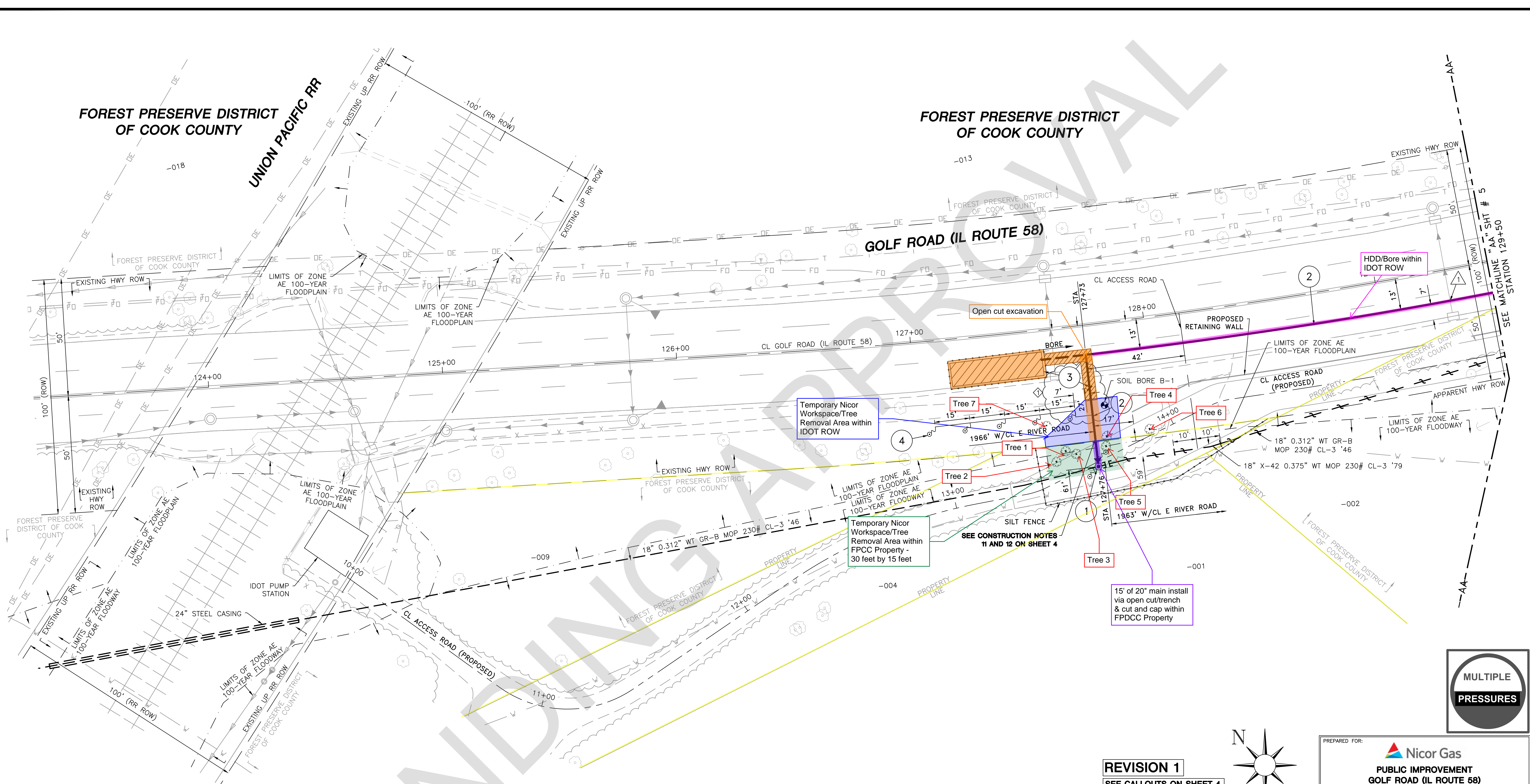
REVISION 1

APPROVED FOR CONSTRUCTION				
REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY
	ADDED VERTICAL ELBOWS	RS	LS	MB

PREPARED FOR:
Nicor Gas
PUBLIC IMPROVEMENT SITE PLAN, TEST DATA AND SYMBOL LEGEND
 DES PLAINES, ILLINOIS

PREPARED BY:
ENEngineering
 28100 TORCH PARKWAY, STE. 400
 WARRENVILLE, IL. 60555
 TEL. 630-353-4000
 FAX 630-353-7777
 WWW.ENENGINEERING.COM

COUNTY	TOWNSHIP	1/4 SECTION	
COOK	MAINE	084 093	
TOWN	RANGE	094 162	
DES PLAINES	41N 12E 3PM	161	
REGION	DEPARTMENT	ENGINEER/DESIGNER	DATE
METRO	CONST.	R. SEERMON	02-10-20
WORK ORDER NO.	DRAWN BY	DATE	
120397/320397	R. AGUILAR	02-10-20	
NICOR JOB NO.	CHECKED BY	DATE	
M11201	L. SOJA	04-09-20	
ENE PROJECT NO.	CORROSION	DATE	
1900001.71	D. SMITH	04-14-20	
SCALE	APPROVED BY	DATE	
NOT TO SCALE	M. BENESIEWICZ	04-23-20	
DATE IN SERVICE	DRAWING FILE NO.	SHEET	
	N14084D-	2 OF 12	



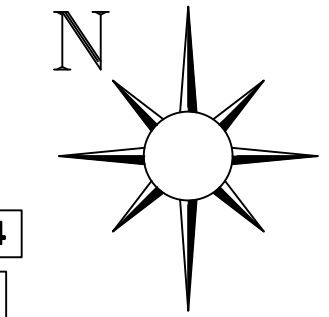
PROPOSED 20" MAIN & 18" AND 20" STEEL FITTINGS TO BE DESIGNED FOR 230 PSIG PER NICOR INTEGRITY MANAGEMENT. THIS DESIGN PRESSURE IS THE SAME AS THE 230 PSIG PRESSURE AT THE TIE-IN AS INDICATED ON PIPELINE ATLAS VIEWER.

SYMBOL LEGEND	
	BORE PIT W/ SILT FENCE
	APPROXIMATE LOCATION OF STOCKPILE W/ SILT FENCE

LOC.	MAIN SIZE	DISTANCE FROM			PROPOSED T.O.P. ELEVATION	PROPOSED MAIN		REASON
		LOCATION	EXISTING R.O.W.	EXISTING CL.		BEFORE ROAD WORK	AFTER ROAD WORK	
1	20"	129+30	37' N/S	13' S	606.9	SEE PROFILE SHEET 7		INSTALL 20" STL MAIN BELOW PROPOSED 12" STORM SEWER W/ INV. ~622.4

Tree ID	Common Name	Scientific Name	Diameter-at-Breast-Height (DBH) (inches)	Multi-Stem	Condition	Removal Required	Comments
1	Common buckthorn	<i>Rhamnus cathartica</i>	4, 4, 4	Yes	Fair	Yes	
2	Green ash	<i>Fraxinus pennsylvanica</i>	5	No	Poor	Yes	Previously Tagged 3701
3	Common buckthorn	<i>Rhamnus cathartica</i>	4, 4.5	Yes	Fair	Yes	
4	Common buckthorn	<i>Rhamnus cathartica</i>	4	No	Fair	Yes	
5	Common buckthorn	<i>Rhamnus cathartica</i>	4	No	Poor	Yes	
6	Common buckthorn	<i>Rhamnus cathartica</i>	4	No	Fair	No	
7	Black cherry	<i>Prunus serotina</i>	14	No	Fair	No	Previously Tagged 3702

REVISION 1
 SEE CALLOUTS ON SHEET 4
 SEE SHEET 7 FOR PROFILE
 SEE SHEET 8 FOR CROSS SECTION
 SEE RETIREMENT DETAIL AND DETAIL 'A' ON SHEET 9
 FOR SOIL BORE LOGS CONTACT EN ENGINEERING



APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE
	UPDATED DEPTH OF BORE	RS	LS	MB	9/14/21

PREPARED FOR:

NICOR GAS
 PUBLIC IMPROVEMENT
 GOLF ROAD (IL ROUTE 58)
 (STA 123+00 TO STA 129+50)
 DES PLAINES, ILLINOIS

PREPARED BY:

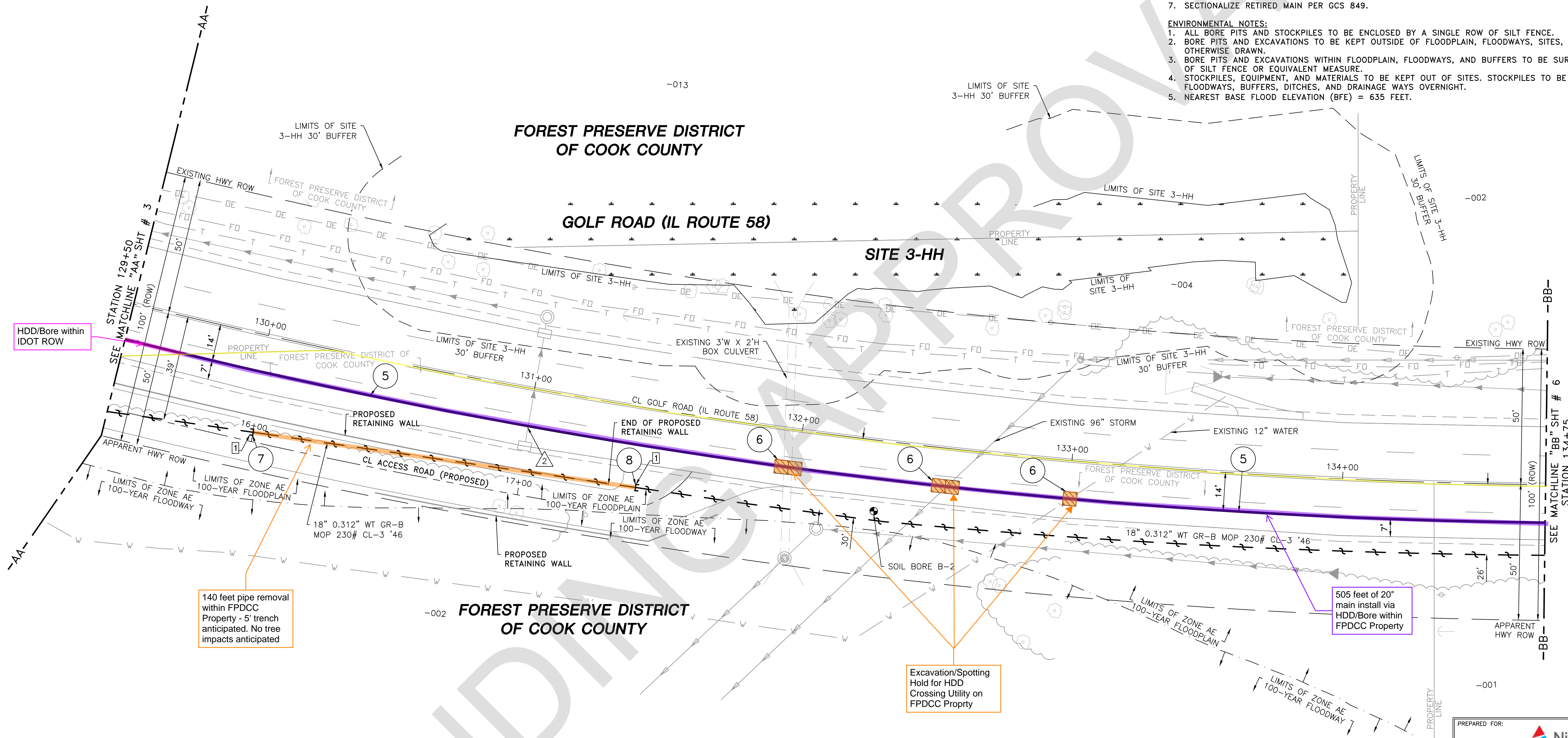
EN Engineering
 28100 TORCH PARKWAY, SUITE 400
 WARRENVILLE, IL 60555
 TEL. 630-353-4000
 FAX 630-353-7777
 WWW.ENENGINEERING.COM

COUNTY COOK	TOWNSHIP MAINE	1/4 SECTION 093 161
TOWN DES PLAINES	RANGE 41N	12E 3PM
REGION METRO	DEPARTMENT CONST.	ENGINEER/DESIGNER R. SEERMON
DATE 02-10-20		
WORK ORDER NO. 120397/320397		DRAWN BY R. AGUILAR
DATE 02-10-20		
NICOR JOB NO. M11201	NODE/LD NO.	CHECKED BY L. SOJA
DATE 04-09-20		
ENE PROJECT NO. 1900001.71		CORROSION D. SMITH
DATE 04-14-20		
SCALE 1"=20'		APPROVED BY M. BENESIEWICZ
DATE 04-23-20		
DATE IN SERVICE		DRAWING FILE NO. SHEET 3 OF 16 N14084D-

PROPOSED 20" MAIN & 18" AND 20" STEEL FITTINGS TO BE DESIGNED FOR 230 PSIG PER NICOR INTEGRITY MANAGEMENT. THIS DESIGN PRESSURE IS THE SAME AS THE 230 PSIG PRESSURE AT THE TIE-IN AS INDICATED ON PIPELINE ATLAS VIEWER.

- CONSTRUCTION NOTES:**
1. INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 & 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
 2. LOCATION AND SIZE OF STOCKPILES AND SILT FENCE AROUND STOCKPILES ARE APPROXIMATE. CONTRACTOR TO DETERMINE EXACT LOCATION AND SIZE AT THE TIME OF CONSTRUCTION.
 3. ALL RIGHT-OF-WAY AND EASEMENTS TO BE SURVEYED AND STAKED PRIOR TO CONSTRUCTION.
 4. CONTRACTOR TO INSTALL SCAR GUARD FOR ALL WELDS TO BE BORED.
 5. ALL BORED MAIN TO BE POWERCRETE COATED.
 6. EXISTING 18" CARRIER PIPE WILL BE RETIRED IN PLACE. NICOR TO BULKHEAD EACH END OF PIPE AND FILL WITH FLOWABLE FILL GROUT. GROUT MATERIAL SHOULD BE SAND CEMENT SLURRY WITH A MINIMUM OF (2) SACKS OF CEMENT PER CUBIC YARD AND A MINIMUM OF WATER TO ASSURE SATISFACTORY PLACEMENT.
 7. SECTIONALIZE RETIRED MAIN PER GCS 849.

- ENVIRONMENTAL NOTES:**
1. ALL BORE PITS AND STOCKPILES TO BE ENCLOSED BY A SINGLE ROW OF SILT FENCE.
 2. BORE PITS AND EXCAVATIONS TO BE KEPT OUTSIDE OF FLOODPLAIN, FLOODWAYS, SITES, AND BUFFERS UNLESS OTHERWISE DRAWN.
 3. BORE PITS AND EXCAVATIONS WITHIN FLOODPLAIN, FLOODWAYS, AND BUFFERS TO BE SURROUNDED BY A DOUBLE ROW OF SILT FENCE OR EQUIVALENT MEASURE.
 4. STOCKPILES, EQUIPMENT, AND MATERIALS TO BE KEPT OUT OF SITES. STOCKPILES TO BE KEPT OUT OF FLOODPLAIN, FLOODWAYS, BUFFERS, DITCHES, AND DRAINAGE WAYS OVERNIGHT.
 5. NEAREST BASE FLOOD ELEVATION (BFE) = 635 FEET.



HDD/Bore within IDOT ROW

140 feet pipe removal within FPDC Property - 5' trench anticipated. No tree impacts anticipated

505 feet of 20" main install via HDD/Bore within FPDC Property

Excavation/Spotting Hold for HDD Crossing Utility on FPDC Property

MULTIPLE PRESSURES

SYMBOL LEGEND

	BORE PIT W/ SILT FENCE
	APPROXIMATE LOCATION OF STOCKPILE W/ SILT FENCE

WORK ORDER QUANTITIES THIS SHEET

PIPE INSTALLATION THIS SHEET	ESTIMATED	ACTUAL
20" PIPE X52 CS FBE POWERCRETE + INTERNAL COATING 0.375" WT	530'	
PIPE RETIREMENT THIS SHEET	ESTIMATED	ACTUAL
18" STEEL (1946)	535'	
PIPE BORING THIS SHEET	ESTIMATED	ACTUAL
20" BORING	530'	
TRENCH BACKFILL THIS SHEET	0 C.Y.	
ASPHALT & CONCRETE BREAKS THIS SHEET	0 SQ. FT.	
SERVICE TRANSFERS THIS SHEET	0	

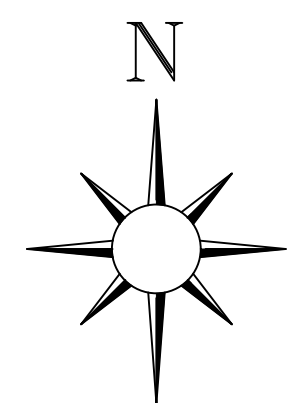
PIPE REMOVAL THIS SHEET

STATION	OFFSET (EX. CL)	PIPE	FOOTAGE	TRENCH BACKFILL*	PAVEMENT BREAKS*
130+02 TO 131+42	30' S TO 36' S	18" STEEL	140'	95 C.Y.	0 SQ. FT.

LOC.	MAIN SIZE	DISTANCE FROM			PROPOSED T.O.P. ELEVATION	PROPOSED MAIN		REASON
		LOCATION	EXISTING R.O.W.	EXISTING CL.		BEFORE ROAD WORK	AFTER ROAD WORK	
2	20"	131+00	36' N/S	14' S	603.0	SEE PROFILE SHEET 7	INSTALL 20" STL MAIN BELOW PROPOSED 12" STORM W/ INV. ~623.2	

- 5 INSTALL (530') 20" PIPE X52 CS FBE POWERCRETE + INTERNAL COATING 0.375" WT (P.O. ITEM) (TEST SECTION "B") (230# MOP SYSTEM)
- 6 BREAK & TEMP REPLACE (5) 18" CORE VAC EXCAVATION FOR UTILITY SPOTTING
- 7 CUT & CAP (SEAL RETIRED MAIN PER GCS 849) (CONDUCT WIPE TEST PER GCS 849.2)
- 8 CUT & CAP (SEAL RETIRED MAIN PER GCS 849) (CONDUCT WIPE TEST PER GCS 849.2)
- SEE CONSTRUCTION NOTE 6 THIS SHEET.

REVISION 1
SEE SHEET 7 FOR PROFILE
FOR SOIL BORE LOGS CONTACT EN ENGINEERING



APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE
	UPDATED T.O.P. ELEVATION	RS	LS	MB	9/14/21

PREPARED FOR:
Nicor Gas
PUBLIC IMPROVEMENT
GOLF ROAD (IL ROUTE 58)
(STA 129+60 TO STA 134+75)
DES PLAINES, ILLINOIS

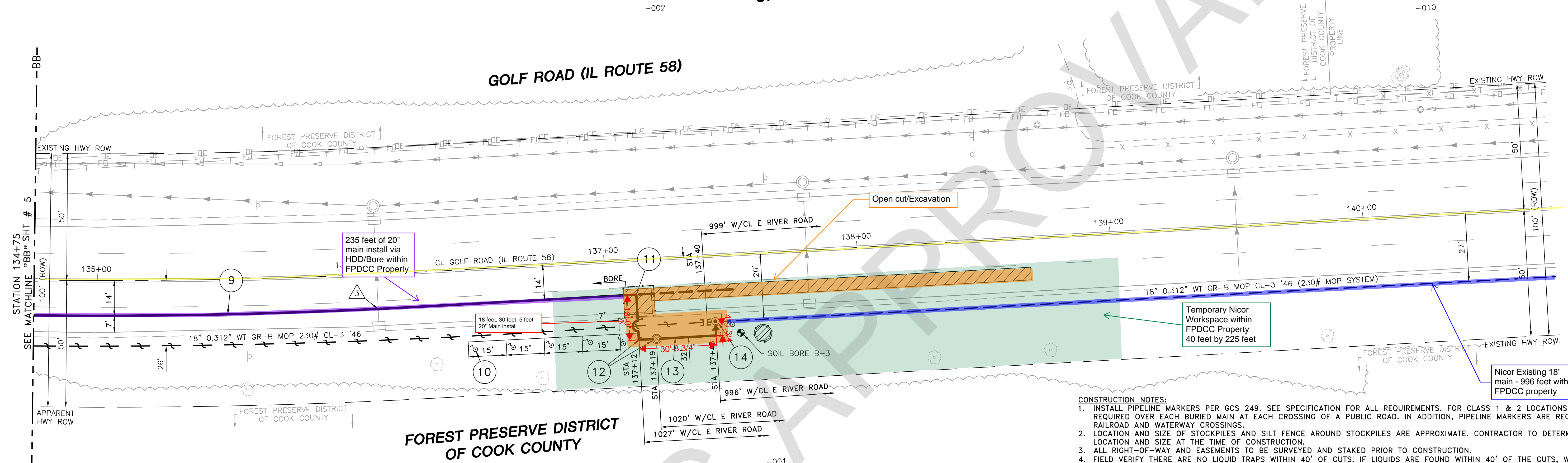
PREPARED BY:
EN Engineering
28100 TORCH PARKWAY, SUITE 400
WARRENVILLE, IL 60555
TEL. 630-353-4000
FAX 630-353-7777
WWW.ENENGINEERING.COM

COUNTY COOK	TOWNSHIP MAINE	1/4 SECTION 093 094
TOWN DES PLAINES	RANGE 41N	12E 3PM 161 162
REGION METRO	DEPARTMENT CONST.	ENGINEER/DESIGNER R. SEERMON
DATE 02-10-20	DRAWN BY R. AGUILAR	DATE 02-10-20
WORK ORDER NO. 120397/320397	CHECKED BY L. SOJA	DATE 04-09-20
NICOR JOB NO. M11201	CORROSION DATE 1900001.71	DATE 04-14-20
APPROVED BY M. BENESIEWICZ	DATE 04-23-20	DRAWING FILE NO. N14084D-

PROPOSED 20" MAIN & 18" AND 20" STEEL FITTINGS TO BE DESIGNED FOR 230 PSIG PER NICOR INTEGRITY MANAGEMENT. THIS DESIGN PRESSURE IS THE SAME AS THE 230 PSIG PRESSURE AT THE TIE-IN AS INDICATED ON PIPELINE ATLAS VIEWER.

FOREST PRESERVE DISTRICT OF COOK COUNTY

- CORROSION NOTES:**
1. INSTALL ETC/ETS WITH ANODE LEADS ROUTED TO TERMINAL BOX.
 2. INSTALL (1) GCS 513.02 32# ANODE EVERY 100 FEET ON NEW 20 INCH PIPE.
 3. DUE TO LENGTH OF BORE AND INABILITY TO INSTALL ANODES, INSTALL ANODE GROUND BED WITHIN EACH BORE PIT ON BOTH SIDES OF THE BORE. INSTALL (5) GCS 513.02 (32#) ANODES AT LEAST 7' FROM PROPOSED MAIN, AT LEAST 5' DEEP AND EACH ANODE 15' APART FROM EACH OTHER.
 4. ENSURE A MINIMUM OF ONE (1) FOOT OF SEPARATION IS MAINTAINED AT ALL METALLIC CROSSINGS.



- 9 INSTALL (265') 20"Ø PIPE X52 CS FBE POWERCRETE + INTERNAL COATING 0.375" WT (P.O. ITEM) (TEST SECTION "B") (230# MOP SYSTEM)
- 10 INSTALL (5) GCS 513.02 (32#) (ANODE INSTALLED ON NEW PIPE W/O TEST CONNECTION)

SEE CORROSION NOTE 3 THIS SHEET.

- 11 INSTALL (1) 20" 90° ELL SR CS W 0.375" WT Y-52 (ROLLED AS NEEDED)(P.O. ITEM)
- BREAK & TEMP REPLACE**
 (1) 10'x10' ASPHALT PAVEMENT
 (1) 5'x150' ASPHALT PAVEMENT

- 12 INSTALL (2) 20" 90° ELL SR CS W 0.375" WT Y-52 (VERTICAL)(P.O. ITEM)
- (1) 20" BALL VALVE, GROVE MODEL B5, WXW, 0.375" WT, ANSI 600, COATED FOR BURIED SERVICE, 2" SQUARE OPERATING NUT W/ BODY BLEED VALVE AND GREASE LINED PIPED INTO VALVE BOX, AND SEALED GEAR OPERATOR (P.O. ITEM)
- (1) TAG VALVE 1-1/4"x4" ST STL 22GA PER GMS 606A (LINE VALVE TAG _____)
- (1) 48" GALVANIZED CORRUGATED STEEL PIPE, WITH ALUMINUM COVER GMS 639.4
- (1) SAFTY CAP FOR 2" SQUARE NUT ON GAS VALVE
- (1) BLOCK, WOOD 2"x10"x12"
- (1) GCS 249.6 (BULLET STYLE PIPELINE MARKER WITH HP LABEL)

NOTES:

1. SEE DETAIL "B" AND VALVE DETAIL ON SHEET 9.
2. SEE CONSTRUCTION NOTE 11 THIS SHEET.

WORK ORDER QUANTITIES THIS SHEET		
PIPE INSTALLATION THIS SHEET	ESTIMATED	ACTUAL
20"Ø PIPE X52 CS FBE POWERCRETE + INTERNAL COATING 0.375" WT	295'	
20" LINE VALVE TAG#	1	
PIPE RETIREMENT THIS SHEET		
ESTIMATED	ACTUAL	
18" STEEL (1946)	265'	
PIPE BORING THIS SHEET		
ESTIMATED	ACTUAL	
20" BORING	240'	
TRENCH BACKFILL THIS SHEET		
125 C.Y.		
ASPHALT & CONCRETE BREAKS THIS SHEET		
850 SQ. FT.		
SERVICE TRANSFERS THIS SHEET		
0		



SYMBOL LEGEND

[Symbol]	BORE PIT W/ SILT FENCE
[Symbol]	APPROXIMATE LOCATION OF STOCKPILE W/ SILT FENCE

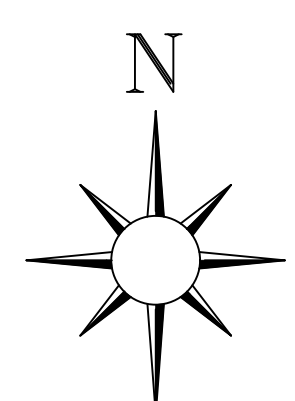
LOC.	MAIN SIZE	LOCATION	EXISTING R.O.W.	EXISTING CL.	PROPOSED T.O.P. ELEVATION	BEFORE ROAD WORK	AFTER ROAD WORK	REASON
3	20"	136+10	36' N/S	14' S	617.6	SEE PROFILE SHEET 7	INSTALL 20" STL MAIN BELOW PROPOSED 12" STORM W/ INV. ~629.9	

- 13 INSTALL (30') 20"Ø PIPE X52 CS FBE POWERCRETE + INTERNAL COATING 0.375" WT (P.O. ITEM) (TEST SECTION "C") (230# MOP SYSTEM)
- 14 INSTALL (1) 18" ANSI-300 SPHERICAL 3-WAY TEE SIDE OUT STD WALL (P.O. ITEM)
- (1) 20"x18" RED CS W 0.375"x0.375" WT Y52 (P.O. ITEM)
- (1) GCS 513.01 (32#) (ANODE INSTALLED ON NEW PIPE W/ TEST CONNECTION)
- (1) GCS 513.03 (32#) (ANODE INSTALLED ON EXISTING PIPE W/ TEST CONNECTION)
- (1) 20" 90° ELL SR CS W 0.375" WT Y-52 (ROLLED AS NEEDED)(P.O. ITEM)
- (1) GCS 514.9* (ABOVE GRADE TEST STATION (ETS) SELF SUPPORTED)
- *INCL: (1) ETS ASSEMBLY TESTLOX KIT
 (1) POST PIPE GALV 2"x5" LG THRD ONE END ONLY

- CUT & CAP**
 (1) 18" CAP CS W 0.375" WT Y52 (P.O. ITEM)
 (SEAL RETIRED MAIN PER GCS 849)
 (CONDUCT WIPE TEST PER GCS 849.2)
- NOTES:**
1. VERIFY OPERATING PRESSURE AT TIME OF TEST. MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE = 448 PSIG. DO NOT EXCEED MAX DIFFERENTIAL PRESSURE DURING TESTING OF 18" SPHERICAL TEE. EXCEEDING DIFFERENTIAL PRESSURE WILL CRUSH THE EXISTING PIPE.
 2. PROPOSED 18" SPHERICAL TEE TO BE TESTED AT 15 TIMES MOP FOR 1 HOUR.
 3. LAMINATION CHECK AND DYE PENETRANT REQUIRED PRIOR TO WELDING ON OR TAPPING 12" AND LARGER HEADER MAINS WITH MOP RATINGS OF 61 PSIG & HIGHER PER GCS 851.
 4. SEE RETIREMENT DETAIL AND DETAIL "C" ON SHEET 9.
 5. SEE CONSTRUCTION NOTES 4-6 THIS SHEET.

- CONSTRUCTION NOTES:**
1. INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 & 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
 2. LOCATION AND SIZE OF STOCKPILES AND SILT FENCE AROUND STOCKPILES ARE APPROXIMATE. CONTRACTOR TO DETERMINE EXACT LOCATION AND SIZE AT THE TIME OF CONSTRUCTION.
 3. ALL RIGHT-OF-WAY AND EASEMENTS TO BE SURVEYED AND STAKED PRIOR TO CONSTRUCTION.
 4. FIELD VERIFY THERE ARE NO LIQUID TRAPS WITHIN 40' OF CUTS. IF LIQUIDS ARE FOUND WITHIN 40' OF THE CUTS, WORK WITH AN ENVIRONMENTAL CONTRACTOR TO REMOVE AND DISPOSE OF THE LIQUIDS.
 5. A 1 1/4" MUELLER TEE ASSEMBLY SHALL BE INSTALLED TO PROVIDE A PORT TO MONITOR GAS LEVELS NEAR THE LOCATION OF THE CUTS, CHECK FOR LIQUIDS AND CONFIRM 0% GAS DURING SEGMENTATION. THIS ASSEMBLY SHALL BE CUT OUT DURING RETIREMENT AND THUS MUST FALL WITHIN THE PIPING TO BE REMOVED.
 6. IF 0% GAS IS NOT PRESENT NEAR THE CUTS, NICOR PERSONNEL MAY REQUEST THE CONTRACTOR TO PERFORM MECHANICAL CUTS OR INSTALL A SIDE TAP NEAR THE MUELLER TEE ASSEMBLY IN ORDER TO PROVIDE A FRESH AIR INLET FOR MULTIPLE AIR MOVERS. THIS TAP WILL BE CUT OUT DURING RETIREMENT AND THUS MUST FALL WITHIN THE PIPING TO BE REMOVED. IF LIQUIDS ARE FOUND NEAR THE CUTS, WORK WITH AN ENVIRONMENTAL CONTRACTOR TO REMOVE AND DISPOSE OF THE LIQUIDS.
 7. CONTRACTOR TO INSTALL SCAR GUARD FOR ALL WELDS TO BE BORED.
 8. ALL BORED MAIN TO BE POWERCRETE COATED.
 9. EXISTING 18" CARRIER PIPE WILL BE RETIRED IN PLACE. NICOR TO BULKHEAD EACH END OF PIPE AND FILL WITH FLOWABLE FILL GROUT. GROUT MATERIAL SHOULD BE SAND CEMENT SLURRY WITH A MINIMUM OF (2) SACKS OF CEMENT PER CUBIC YARD AND A MINIMUM OF WATER TO ASSURE SATISFACTORY PLACEMENT.
 10. APPROXIMATE COORDINATES FOR BORE LIMITS ARE AS FOLLOWS:
 WEST SIDE: 42.0536992°, -87.8770680°
 EAST SIDE: 42.0533753°, -87.8734379°
 11. CONTRACTOR TO EXTEND GREASE LINES AND BODY BLEED LINES TO JUST BELOW GRADE PER NICOR REPRESENTATIVE.
 12. SECTIONALIZED RETIRED MAIN PER GCS 849.

- ENVIRONMENTAL NOTES:**
1. ALL BORE PITS AND STOCKPILES TO BE ENCLOSED BY A SINGLE ROW OF SILT FENCE.
 2. BORE PITS AND EXCAVATIONS TO BE KEPT OUTSIDE OF FLOODPLAIN, FLOODWAYS, SITES, AND BUFFERS UNLESS OTHERWISE DRAWN.
 3. BORE PITS AND EXCAVATIONS WITHIN FLOODPLAIN, FLOODWAYS, AND BUFFERS TO BE SURROUNDED BY A DOUBLE ROW OF SILT FENCE OR EQUIVALENT MEASURE.
 4. STOCKPILES, EQUIPMENT, AND MATERIALS TO BE KEPT OUT OF SITES. STOCKPILES TO BE KEPT OUT OF FLOODPLAIN, FLOODWAYS, BUFFERS, DITCHES, AND DRAINAGE WAYS OVERNIGHT.
 5. ENTIRE SHEET WITHIN THE FEMA ZONE AE 100-YEAR FLOODPLAIN.
 6. NEAREST BASE FLOOD ELEVATION (BFE) = 635 FEET.



REVISION 1
 SEE SHEET 7 FOR PROFILE
 SEE SHEET 8 FOR CROSS SECTIONS
 SEE RETIREMENT DETAIL AND DETAILS 'A' AND 'B' ON SHEET 9
 FOR SOIL BORE LOGS CONTACT EN ENGINEERING

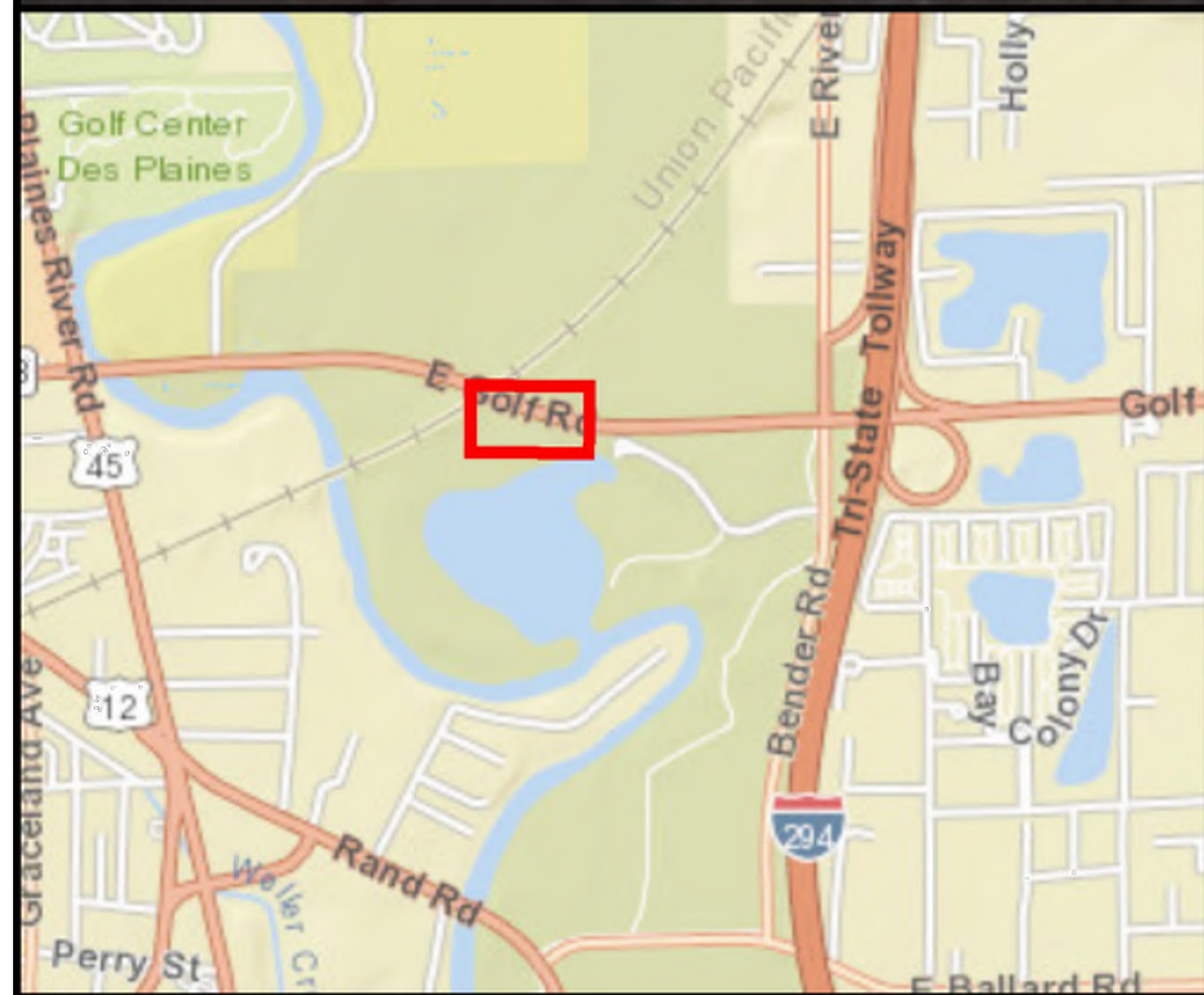
APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE

PREPARED FOR:
Nicor Gas
PUBLIC IMPROVEMENT
GOLF ROAD (IL ROUTE 58)
(STA 134+75 TO STA 141+00)
DES PLAINES, ILLINOIS

PREPARED BY:
EN Engineering
 28100 TORCH PARKWAY, SUITE 400
 WARRENVILLE, IL 60555
 TEL. 630-353-4000
 FAX 630-353-7777
 WWW.ENENGINEERING.COM

COUNTY	COOK	TOWNSHIP	MAINE	1/4 SECTION	094 162
TOWN	DES PLAINES	TIER	41N	RANGE	12E 3PM
REGION	METRO	DEPARTMENT	CONST.	ENGINEER/DESIGNER	R. SEERMON
WORK ORDER NO.	120397/320397	DRAWN BY	R. AGUILAR	DATE	02-10-20
NICOR JOB NO.	M11201	CHECKED BY	L. SOJA	DATE	04-09-20
ENE PROJECT NO.	1900001.71	CORROSION	D. SMITH	DATE	04-14-20
SCALE	1"=20'	APPROVED BY	M. BENESIEWICZ	DATE	04-23-20
DATE IN SERVICE		DRAWING FILE NO.	SHEET 6 OF 16 N14084D-		



 Tree Survey




Source: Esri, and Burns & McDonnell Engineering Company, Inc.




Tree Survey Map
 Golf Road (IL Route 58)
 Des Plaines, Cook County, Illinois
 Nicor Project M11201/Work Order 120397

Path: C:\Users\mwmiller\Desktop\M11201 Tree.mxd

REVISION 1

PREPARED FOR:

Nicor Gas
PUBLIC IMPROVEMENT TREE SURVEY MAP
DES PLAINES, ILLINOIS

PREPARED BY:

EN Engineering
 28100 TORCH PARKWAY, SUITE 400
 WARRENVILLE, IL 60555
 TEL. 630-353-4000
 FAX 630-353-7777
 WWW.ENENGINEERING.COM

APPROVED FOR CONSTRUCTION

COUNTY		TOWNSHIP		1/4 SECTION	
COOK		MAINE		084 093	
TOWN		RANGE		094 162	
DES PLAINES		41N 12E 3PM		161	
REGION	DEPARTMENT	ENGINEER/DESIGNER	DATE		
METRO	CONST.	R. SEERMON	02-10-20		
WORK ORDER NO.	DRAWN BY	DATE			
120397/320397	R. AGUILAR	02-10-20			
NICOR JOB NO.	CHECKED BY	DATE			
M11201	L. SOJA	04-09-20			
ENE PROJECT NO.	CORROSION	DATE			
1900001.71	D. SMITH	04-14-20			
SCALE	APPROVED BY	DATE			
NOT TO SCALE	M. BENESIEWICZ	04-23-20			
DATE IN SERVICE	DRAWING FILE NO.	SHEET	14 OF 16		
	N14084D-				

◆	ADDED TREE SURVEY DATA PER ENVIRONMENTAL	RS	LS	MB	9/14/21
REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY	DATE

Tree Survey Data
 Rev 9/30/2021
 Nicor Gas Project M11201/Work Order 120397
 Golf Road (IL Route 58)
 Des Plaines, Cook County, Illinois

Tree ID	Common Name	Scientific Name	Diameter-at-Breast-Height (DBH) (inches)	Multi-Stem	Condition	Removal Required	Comments
1	Common buckthorn	<i>Rhamnus cathartica</i>	4, 4, 4	Yes	Fair	Yes	
2	Green ash	<i>Fraxinus pennsylvanica</i>	5	No	Dead	Yes	Previously Tagged 3701, reported as dead in 2021
3	Common buckthorn	<i>Rhamnus cathartica</i>	4, 4.5	Yes	Fair	Yes	
4	Common buckthorn	<i>Rhamnus cathartica</i>	4	No	Fair	Yes	
5	Common buckthorn	<i>Rhamnus cathartica</i>	4	No	Poor	Yes	
6	Common buckthorn	<i>Rhamnus cathartica</i>	4	No	Fair	No	
7	Black cherry	<i>Prunus serotina</i>	14	No	Fair	No	Previously Tagged 3702



Forest Preserve District of Cook County

Tree Mitigation Review Form

Applicant Name Nicor Gas Company	Internal Project Number (if applicable) 09-09-301-004
Project Name WO 120397 Golf Road, Des Plaines Cook County	

Live Trees <small>Complete using Table A</small>	1a Total number of trees w/ multiplier of 1 / C =>5	1a	0	b Value.	1b	\$ -
	2a Total number of trees w/ multiplier of .75 / C=2-4	2a	0	b Value.	2b	\$ -
	3a Total number of trees w/ multiplier of .50 / C=0-1	3a	0	b Value.	3b	\$ -
	4a Total number of trees w/ multiplier of .20 / NN	4a	0	b Value.	4b	\$ -
	5 Add lines 1b through 4b. This is your total fee for live trees.	5				\$ -

Dead Trees <small>Complete using Table B</small>	6a Total number of trees w/ multiplier of 1 / C =>5	6a	1	b Value.	6b	\$ 1,336.34
	7a Total number of trees w/ multiplier of .75 / C=2-4	7a	0	b Value.	7b	\$ -
	8a Total number of trees w/ multiplier of .50 / C=0-1	8a	0	b Value.	8b	\$ -
	9a Total number of trees w/ multiplier of .20 / NN	9a	0	b Value.	9b	\$ -
	10 Add lines 6b through 9b.	10				\$ 1,336.34
11 Multiply line 10 by 0.50. This is your total fee for dead trees.	11				\$ 668.17	

Coarse Woody Debris <small>Complete using Table C</small>	12a Total length of plots with low concentration / 10-49%	12a	0	b Value.	12b	\$ -
	13a Total length of plots with high concentration / ≥50%	13a	0	b Value.	13b	\$ -
	14a Total length of plots with N/A concentration / <10%	14a	0	b Value.	14b	\$ -
	15 Add lines 12b through 14b. This is your total fee for coarse woody debris.	15				\$ -

Total Tree Mitigation Fee	16 Add lines 5, 11, and 16. This is your total tree mitigation fee.	16				\$ 668.17
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Required Enclosures	Tree Survey maps and GIS data	<input checked="" type="checkbox"/>
	Table A: Tree Valuation Matrix for Live Trees	<input checked="" type="checkbox"/>
	Table B: Tree Valuation Matrix for Dead Trees	<input checked="" type="checkbox"/>
	Table C: Tree Valuation Matrix for Coarse Woody Debris	<input checked="" type="checkbox"/>

The following attachments are required as part of your application.



Forest Preserve District of Cook County

Table A: Tree Valuation Matrix for Live Trees

Instructions: Complete the highlighted column for every live tree surveyed/inventoried. Indicate species and location from the dropdown menus, where indicated. Click the "Add New Row" button at the bottom of the table for additional lines. Delete any unused entry rows showing #REF! or #N/A errors.

OBJECTID *	STARTING DIAMETER (DBH)	MULTI-STEM? (yes or no)	SPECIES (select from dropdown)	YEAR SCHEDULED TO BE REMOVED	ANTICIPATED GROWTH	YEARS UNTIL REMOVAL	TOTAL DIAMETER	RADIUS	RADIUS SQ	PI	BASIC VALUE PER INCH CROSS SECTION	MAX TREE VALUE	LOCATION (select from dropdown)	LOCATION/CONDITION MULTIPLIER	ADJUSTED BASE TREE VALUE	Native Index value of 5 or greater	Total \$ for trees w/ multiplier of 1	Native Index value of 2 to 4	Total \$ for trees w/ multiplier of .75	Native Index value of 1 or 0	Total \$ for trees w/ multiplier of .50	Non-native trees	Total \$ for trees w/ multiplier of .20
1	12	Yes	Rhamnus cathartica	2021	0.052	1	12	6.00	36.00	3.14	116.40	13157.86	General	0.585	7697.35	0	\$ -	0	\$ -	0	\$ -	0	\$ -
3	9	Yes	Rhamnus cathartica	2021	0.052	1	9	4.50	20.25	3.14	116.40	7401.29	General	0.585	4329.75	0	\$ -	0	\$ -	0	\$ -	0	\$ -
4	4	No	Rhamnus cathartica	2021	0.052	1	4	2.00	4.00	3.14	116.40	1461.98	General	0.585	855.26	0	\$ -	0	\$ -	0	\$ -	0	\$ -
5	4	No	Rhamnus cathartica	2021	0.052	1	4	2.00	4.00	3.14	116.40	1461.98	General	0.585	855.26	0	\$ -	0	\$ -	0	\$ -	0	\$ -

Add New Row

Box 1a	Box 1b	Box 2a	Box 2b	Box 3a	Box 3b	Box 4a	Box 4b
Total # of trees w/ multiplier of 1	Total \$ for trees w/ multiplier of 1	Total # of trees w/ multiplier of .75	Total \$ for trees w/ multiplier of .75	Total # of trees w/ multiplier of .5	Total \$ for trees w/ multiplier of .50	Total # of trees w/ multiplier of .2	Total \$ for trees w/ multiplier of .20
0	\$ -	0	\$ -	0	\$ -	0	\$ -

TOTAL LIVE TREES:
0

TOTAL MITIGATION (LIVE TREES):
\$0.00
Box 5



Forest Preserve District of Cook County

Table B: Tree Valuation Matrix for Dead Trees

Instructions: Complete the highlighted column for every standing or leaning dead tree surveyed/inventoried. The live value of each tree will be initially calculated, and subsequently reduced by the appropriate factor. Indicate species and location from the dropdown menus, where indicated. Click the "Add New Row" button at the bottom of the table for additional lines. Delete any unused entry rows showing #REF! or #N/A errors.

STEP 1: LIVE VALUE

OBJECTID *	STARTING DIAMETER (DBH)	MULTI-STEM? (yes or no)	SPECIES (select from dropdown)	RADIUS	RADIUS SQ	PI	BASIC VALUE PER INCH CROSS SECTION	MAX TREE VALUE	LOCATION (select from dropdown)	LOCATION/C ONDITION MULTIPLIER	ADJUSTED BASE TREE VALUE	Native Index value of 5 or greater	Total \$ for trees w/ multiplier of 1	Native Index value of 2 to 4	Total \$ for trees w/ multiplier of .75	Native Index value of 1 or 0	Total \$ for trees w/ multiplier of .50	Non-native trees	Total \$ for trees w/ multiplier of .20
2	5	No	Fraxinus pennsylvanica	2.50	6.25	3.14	116.4	2284.35	General	0.585	1336.34	1	\$ 1,336.34	0	\$ -	0	\$ -	0	\$ -

Add New Row

Box 6a Total # of trees w/ multiplier of 1	Box 6b Total \$ for trees w/ multiplier of 1	Box 7a Total # of trees w/ multiplier of .75	Box 7b Total \$ for trees w/ multiplier of .75	Box 8a Total # of trees w/ multiplier of .5	Box 8b Total \$ for trees w/ multiplier of .50	Box 9a Total # of trees w/ multiplier of .2	Box 9b Total \$ for trees w/ multiplier of .20
1	\$ 1,336.34	0	\$ -	0	\$ -	0	\$ -

TOTAL DEAD TREES:
1

TOTAL LIVE VALUE OF DEAD TREES:
\$1,336.34

Box 10

Live Value x (0.50) =

STEP 2:
TOTAL MITIGATION (DEAD TREES):
\$668.17

Box 11



Forest Preserve District of Cook County

Table C: Tree Valuation Matrix for Coarse Woody Debris

Instructions: Complete a section for each survey plot across the length of the project area, assigning a debris concentration based on the criteria detailed in the Tree Mitigation Plan. The value of coarse woody debris for each plot will be calculated. The total combined length of all plots should match the project area length listed on the applicant's land use request.

1	PLOT ID	PLOT LENGTH <i>(500 ft. max)</i>	PLOT WIDTH <i>(FT)</i>	SQ FT	ACRES	DEBRIS CONCENTRATION <i>(select from dropdown)</i>	VALUE PER ACRE	
			0	0	0	0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							0	\$ -

2	PLOT ID	PLOT LENGTH <i>(500 ft. max)</i>	PLOT WIDTH <i>(FT)</i>	SQ FT	ACRES	DEBRIS CONCENTRATION <i>(select from dropdown)</i>	VALUE PER ACRE	
			0	0	0	0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							0	\$ -

3	PLOT ID	PLOT LENGTH <i>(500 ft. max)</i>	PLOT WIDTH <i>(FT)</i>	SQ FT	ACRES	DEBRIS CONCENTRATION <i>(select from dropdown)</i>	VALUE PER ACRE	
			0			0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							0	\$ -

4	PLOT ID	PLOT LENGTH <i>(500 ft. max)</i>	PLOT WIDTH <i>(FT)</i>	SQ FT	ACRES	DEBRIS CONCENTRATION <i>(select from dropdown)</i>	VALUE PER ACRE	
			0	0	0	0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							0	\$ -

5	PLOT ID	PLOT LENGTH <i>(500 ft. max)</i>	PLOT WIDTH <i>(FT)</i>	SQ FT	ACRES	DEBRIS CONCENTRATION <i>(select from dropdown)</i>	VALUE PER ACRE	
			0	0	0	0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							0	\$ -

6	PLOT ID	PLOT LENGTH <i>(500 ft. max)</i>	PLOT WIDTH <i>(FT)</i>	SQ FT	ACRES	DEBRIS CONCENTRATION <i>(select from dropdown)</i>	VALUE PER ACRE	
			0	0	0	0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							0	\$ -

7	PLOT ID	PLOT LENGTH <i>(500 ft. max)</i>	PLOT WIDTH <i>(FT)</i>	SQ FT	ACRES	DEBRIS CONCENTRATION <i>(select from dropdown)</i>	VALUE PER ACRE	
			0	0	0	0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							0	\$ -

8	PLOT ID	PLOT LENGTH <i>(500 ft. max)</i>	PLOT WIDTH <i>(FT)</i>	SQ FT	ACRES	DEBRIS CONCENTRATION <i>(select from dropdown)</i>	VALUE PER ACRE	
			0	0	0	0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							0	\$ -

TOTAL VALUE OF COARSE WOODY DEBRIS:

\$0.00

Box 15

TOTAL COMBINED LENGTH OF ALL PLOTS:

0 Feet

Box 12a Total length of plots with low/moderate debris concentration	Box 12b Total \$ for plots with low/moderate debris concentration	Box 13a Total length of plots with heavy debris concentration	Box 13b Total \$ for plots with heavy debris concentration	Box 14a Total length of plots with N/A debris concentration	Box 14b Total \$ for plots with N/A debris concentration
0	\$ -	0	\$ -	0	\$ -