

## NICOR GAS - CONSTRUCTION MAIN REPLACEMENT FOR M11145/VW10 SHERMER RD & LEE RD NORTHBROOK, IL W.O.# 120386/320386

**INVESTING in ILLINOIS**  
A Nicor Gas System Improvement Initiative

1. CONTRACTOR TO INSTALL THE PROPOSED GAS MAIN TO THE EXISTING MAIN ON THE PLANS USING THE DIMENSIONS PROVIDED. APPROXIMATE COVER SHOULD BE THE REQUIRED ELEVATION IS FOR INFORMATION PURPOSES ONLY.
2. MAIN SHALL BE 24" DIA. 20# STEEL PIPE WITH 12" DIA. 15# STEEL COUPLERS TO BE INSTALLED.
3. ALL 20# STEEL PIPE MUST BE TESTED AND SCHEDULED PROTECTED BEFORE GAS MAIN CAN BE INSTALLED.
4. INSTALL FLOW DIRECTION ARROWS ON GAS MAIN AND SCHEDULED PROTECTED BEFORE GAS MAIN CAN BE INSTALLED. MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD AND BRIDGES. IN ADDITION, FLOW DIRECTION ARROWS ARE REQUIRED AT ALL BRIDGES AND TIE-INS.
5. INSTALL ALL MAIN WITH A MINIMUM COVER OF 3' UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL INSTALL THE PROPOSED GAS MAIN CROSSING CONDUIT, SPURALS, UNIONS, OR OTHER HARD SURFACES PERMITTED, UNLESS OTHERWISE SPECIFIED BY DIMENSIONS OR OTHERWISE SPECIFIED OTHERWISE. CONTRACTOR SHALL INSTALL A TEMPORARY PATCH FOR GAS CONSTRUCTION SPECIFICATIONS FOR CONSTRUCTION. PERMITS MUST BE COMPLETED BY THE CONTRACTOR.
7. CONTRACTOR SHALL FURNISH AND INSTALL ALL CAPS AND OTHER FITTINGS NECESSARY FOR TESTING THE MAIN.
8. ALL 2" AND LARGER STEEL PIPE THAT IS BORED MUST BE BORED CORRECT.
9. FLOW DIRECTION ARROWS MUST BE INSTALLED EVERY 500' FOR GAS MAIN.
10. SETBACK SHALL BE PER CITY ORDINANCE.
11. IF IT IS THE RESPONSIBILITY OF THE OWNER (OWNER, OR CONTRACTOR) TO FOLLOW THE LATEST MAIN GAS AND GAS SPECIFICATIONS, CONTACT NICOR TECHNICAL SERVICES DEPARTMENT FOR A COPY OF THE LATEST CODES.
12. COORDINATE WITH NEIGHBORHOOD INSPECTOR FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO STARTING ANY EXCAVATION. DETERMINE ONE (ONE) UNDERGROUND UTILITY LOCATIONS.
13. ANY PROPOSED DIRECTIONALLY BORED PIPE TO BE INSTALLED FOR MAIN GAS OR OTHER UTILITY LOCATIONS, SHALL BE INSTALLED PER CITY ORDINANCE.
14. VERIFY LOCATIONS BEFORE ON PLANS ARE APPROXIMATE AND NOT FOR ALL INCLUSIVE. CONTRACTOR SHALL CONTACT ALL CITY AND LOCAL GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION FOR ALL UTILITY LOCATIONS.
15. REMOVE TOP SURFACE OF THE MAIN SOIL FROM UNDER THE MAIN WITH A MINIMUM COVER OF 3' UNLESS OTHERWISE NOTED.
16. IF IT IS THE RESPONSIBILITY OF THE OWNER (OWNER, OR CONTRACTOR) INSTALLING THE GAS MAINS TO LOCATE ALL SEWER MAINS AND LATERALS WITHIN THE SCOPE OF THE PROJECT, NO BONDING, SCHEDULED, OR OTHER OTHER MAINS LESS CONSTRUCTION METHODS SHALL BE USED WITHOUT OTHER LOCATIONS. RECORDS OR OTHERWISE PROOF OF SEWER SYSTEMS. THE USE OF A SONAR DEVICE (CALIBRATED ONLY) IS RECOMMENDED FOR LOCATING THE SEWER MAINS. SPOTTING OF SEWER FACILITIES IS REQUIRED IF A SONAR DEVICE IS NOT USED (HOWEVER, SPOTTING OF FACILITIES MAY STILL BE REQUIRED WHEN USING A SONAR DEVICE). RECORDS OF GAS FACILITIES AND SEWER MAINS/LATERALS SHALL BE MAINTAINED PER CITY ORDINANCE.

1. PVC PIPE SAMPLES, PERFORMED BY NICOR GAS EMPLOYEES, ARE REQUIRED FOR ALL 4" AND LARGER PIPE THAT IS BORED OR INSTALLED ON THIS WORK ORDER. SELECT LOCATIONS FOR PVC PIPE SAMPLES PROCEDURES TO THE STRENGTH DEPARTMENT OF KEVIN BOGGS (815-314-7888) OR ENVIRONMENTAL AFFAIRS (EA).
2. COLLECT AND PROPERLY STORE ALL SAMPLES FROM PROPOSED SEWER MAINS.
3. IN THE EVENT OF A SPILL, PLEASE IMMEDIATELY CALL DISPATCH (800-317-8111) AND ASK FOR THE ON-CALL ENVIRONMENTAL REPRESENTATIVE.
4. ANY EXISTING PIPE THAT MUST BE REMOVED FROM THE SITE SHOULD HAVE THE DUGS COVERED WITH PLASTIC OR SIMILAR MATERIAL. AFTER THE PVC PIPE SAMPLE LAB RESULTS ARE RECEIVED, NOTIFY ON THE MAIN GAS FOR SAMPLE INFORMATION. FORMS MUST BE COMPLETED BY THE USER TO BE SUBMITTED TO THE MAIN GAS FOR SAMPLE INFORMATION.
5. IF AN EXISTING GAS MAIN IS EXPOSED, NOTIFY THE NEAREST GAS MAIN REGIONAL DISPATCH. RECORDS MUST BE COMPLETED BY A TRINITY EMPLOYEE FOR ANY EXPOSURE OF PROBLEMS OR TRINITY EMPLOYEES, CALL TRINITY HELPLINE (800-362-7833) IN THE SAFETY COPY.
6. IF CORROSION IS SUSPECTED, CALL KEVIN BOGGS (800-314-7888) IN EA FOR REGULATORY COMPLIANCE RESTRICTIONS.
7. ALL UTILITIES SHOULD BE MARKED ON THESE WORK ORDER BUSINESS RETURNED AND UNPROTECTED ARE GENERALLY MARKED AS "UNTESTED" IF THERE IS A QUESTION ABOUT THE UTILITIES EXPOSED BY EXCAVATION. PLEASE CALL DA LARUE PERSONAL AT 800-362-7833 OR ALSO BOPRO 324-388-7783.
8. IF THE PROPOSED GAS DIMENSIONS VARY FROM A GREEN BAND, THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE MAIN GAS DIMENSIONS. PREPARE A MAIN GAS PLAN FOR THE PROJECT. IF THERE ARE QUESTIONS, PLEASE CALL DA LARUE PERSONAL AT 800-362-7833 OR ALSO BOPRO 324-388-7783.
9. IF A TRINITY CUT OCCURS DURING EXCAVATION, THE CONTRACTOR IS RESPONSIBLE FOR STOPPING THE BORE, CONTAINING THE BORE WITH MATERIAL, AND IMMEDIATELY CONTACTING DA LARUE PERSONAL AT 800-362-7833 OR ALSO BOPRO 324-388-7783. AFTER CONTACTING THE MAIN GAS, THE CONTRACTOR MUST MARK THE TRINITY CUT BORE.
10. REMOVE AND STORE EQUIPMENT A MINIMUM OF 100 FEET FROM UTILITIES OR WATER BODIES.
11. INSTALL SIGN AND EXCAVATION CONTROL, PROTECT ANY OPEN BURIED STRUCTURES, I.E. VALETS, CATCH BASINS, OR MANHOLES WITHIN OR ADJACENT TO THE PROJECT AREA. IF ANY NEAR BY BURIED STRUCTURES, I.E. VALETS, CATCH BASINS, OR MANHOLES, EXCAVATION MUST BE STOPPED TO ALLOW SIGNAGE TO BE BUILT INTO THE GROUND AND/OR USE FLARE SIGNS AND SHIELD FROM SIGNS TO REMOVE SIGN/STRUCTURE FROM THE WATER. NO SIGNAGE LARGER THAN 4' IS ALLOWED TO EXCEED VALETS, VALETS, WATER BODIES, ETC.
12. IF MAIN IS BEING INSTALLED ON THE STREET BY COMPACT AND/OR VEHICLES, ONLY STREET SIGNING WILL BE REQUIRED.
13. ALL EXCAVATED AREAS SHALL BE RESTORED TO ORIGINAL CONDITIONS AND COORDINATE. RESTORATION MUST BE INSTALLED WITH 1 DAY DEPENDING ON POINT CONDITIONS.



DATE	BY	DESCRIPTION
11/15/2024	1	COVER MAIN
11/15/2024	2	INS FLARE & TEST BEFORE GAS
11/15/2024	3	STOPPED PUMP - SEE NO. 4. SEE NO. 5
11/15/2024	4	STOPPED PUMP - SEE NO. 4. SEE NO. 5
11/15/2024	5	STOPPED PUMP - SEE NO. 4. SEE NO. 5
11/15/2024	6	STOPPED PUMP - SEE NO. 4. SEE NO. 5
11/15/2024	7	STOPPED PUMP - SEE NO. 4. SEE NO. 5
11/15/2024	8	STOPPED PUMP - SEE NO. 4. SEE NO. 5
11/15/2024	9	STOPPED PUMP - SEE NO. 4. SEE NO. 5
11/15/2024	10	TEST COMPLETION

REVISIONS BY NICOR UTILITY DEPARTMENT		COMPLETED BY NICOR GAS	
DATE	DESCRIPTION	DATE	DESCRIPTION

TOTAL PIPE INSTALLATION		
SIZE	LENGTH	ACTUAL
8" PIPE 48" PE 300	11.8	11.8
4" PIPE 48" PE 300	11.3	11.3
4" PIPE 48" PE 300	13.5	13.5
TOTAL PIPE REMOVAL		
SIZE	LENGTH	ACTUAL
2" STEEL (1841)	33'	33'
2" STEEL (1842)	111'	111'
2" STEEL (1847)	33'	33'
2" STEEL (2000)	39'	39'
2" STEEL (2006)	18'	18'
6" STEEL (1847)	1.88'	1.88'
6" STEEL (2000)	13'	13'
6" STEEL (2006)	11'	11'
6" STEEL (2006)	2'	2'
6" PE (2000)	6.33'	6.33'
6" PE (2000)	1.92'	1.92'
6" PE (2015)	2'	2'
TOTAL PIPE REMOVAL		
SIZE	LENGTH	ACTUAL
2" STEEL	147'	147'
4" STEEL	41'	41'
6" STEEL	1.92'	1.92'
6" PE	13.25'	13.25'
TOTAL APPROXIMATE QUANTITIES		
ITEM	QUANTITY	ACTUAL
TOTAL APPROXIMATE QUANTITIES	102 SF	102 SF
TOTAL APPROXIMATE QUANTITIES	13	13

INCLUDED PERMITS		
APPROVAL	DATE	STATUS

**REVISION 1**

**CONFLICTS WITH PROPOSED DRAINAGE**

**APPROVED**  
By Sherm Wilson of 10/27 pm, May 04, 2024

**Nicor Gas**

**APPROVED FOR CONSTRUCTION**

DATE: 11/15/2024  
TIME: 1:30 PM  
LOCATION: NORTHBROOK, IL  
PROJECT: M11145/VW10  
DRAWN BY: J. BROWN  
CHECKED BY: J. BROWN  
DATE: 11/15/2024

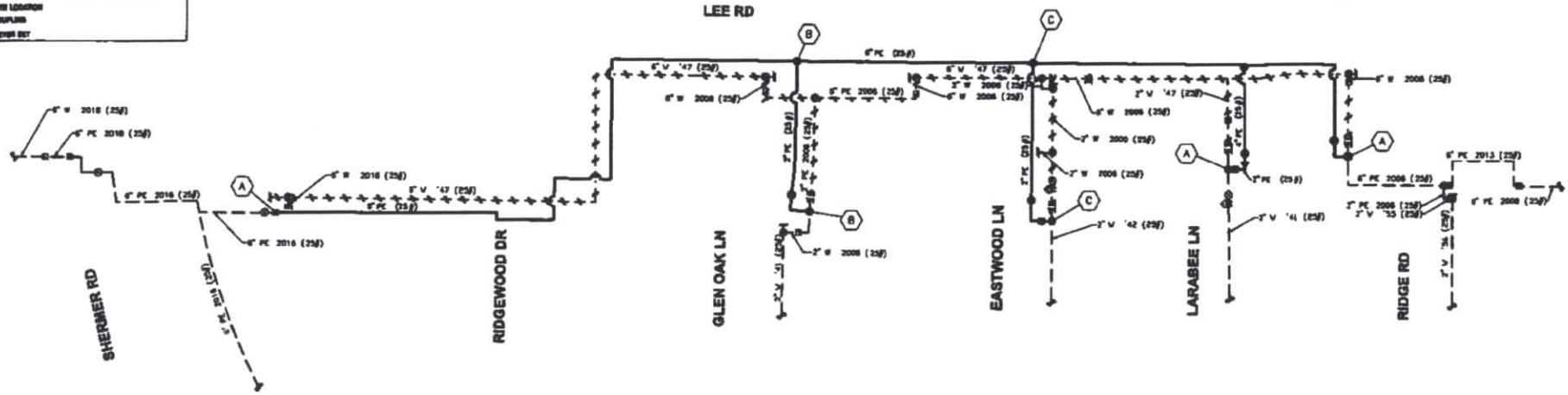
REVISIONS:

DATE: 11/15/2024  
TIME: 1:30 PM  
LOCATION: NORTHBROOK, IL  
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CHECKED BY: J. BROWN  
DATE: 11/15/2024



SYMBOL LEGEND	
[Symbol]	PIPE AND BOND DIMENSIONS
[Symbol]	APPROX. BOND DIMENSIONS
[Symbol]	LATERAL TRENCH WALLS (SEE DIMS AND ANGLE, PER THE PRESSURE CONTROL, P/C, AND STRAINING)
[Symbol]	UNDERGROUND PIPES (SEE DIMS)
[Symbol]	VALVES - GROUND
[Symbol]	REGULATORS (SEE DIMS & BOND)
[Symbol]	VALVE COMPASS (SEE DIMS)
[Symbol]	TO REMOVED BOND DIMS, A, B
[Symbol]	BASE OF 2" TRENCH
[Symbol]	CONCRETE AND BOND DIMS
[Symbol]	REINFORCED CONCRETE DIMS
[Symbol]	REINFORCED ASPHALT DIMS
[Symbol]	TRENCH
[Symbol]	REGULATION PLANTS
[Symbol]	ELECTRICAL TEST SECTION
[Symbol]	REGULATION SECTION
[Symbol]	BOUNDARY BETWEEN A SPECIAL PERMITS FENCE
[Symbol]	PIPE LOCATION
[Symbol]	COUPLERS
[Symbol]	VALVE BOX



\* SITE PLAN  
DATE

**REVISION 1**

PROJECT NO. 211143/2019	PROJECT NAME NORTHFIELD
DATE 02/25/2020	DATE 02/25/2020
BY D. SMITH	BY D. SMITH
BY D. SMITH	BY D. SMITH
BY D. SMITH	BY D. SMITH
BY D. SMITH	BY D. SMITH
BY D. SMITH	BY D. SMITH

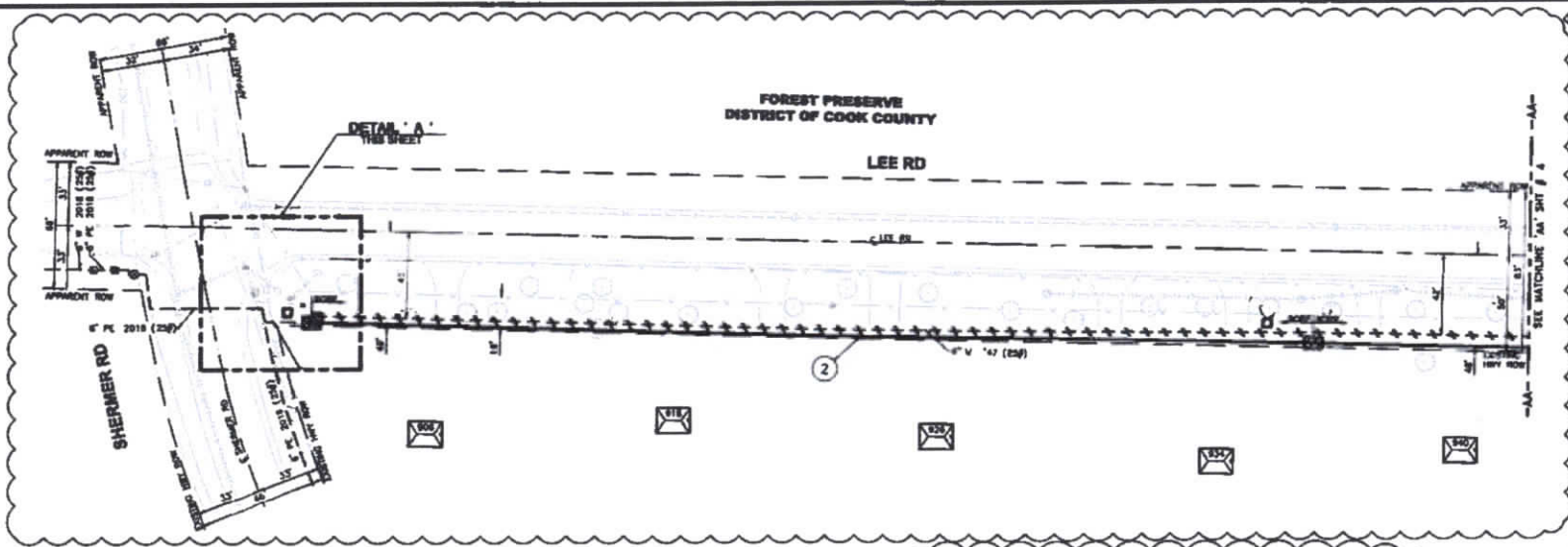
TEST SECTION	MOP	TYPE	DESCRIPTION			LEAK TEST PER GCS 887				STRENGTH TEST PER GCS 886				WELD INSPECTION PER GCS 881			FIELD RECORD PER GCS 889					
			TOTAL LENGTH	DIA	MATL	PAGE	TEST PRESSURE (PSI)	MIN W. INCHES	CON W. INCHES	MIN W. INCHES	NO. OF TESTS	TEST METHOD	MINIMUM W. INCHES	MAXIMUM W. INCHES	W. INCHES	W. INCHES	W. INCHES	W. INCHES	W. INCHES			
A	80	1	4'	2"	PE	5	90	-	-	20	-	-	-	-	-	-	-	-	-			
			87'	4"	PE	5					-	-	-	-	-	-	-	-	-	-	-	-
			2042'	8"	PE	3-5					-	-	-	-	-	-	-	-	-	-	-	-
B	80	1	87'	2"	PE	4	90	-	-	1	-	-	-	-	-	-	-	-				
C	80	1	110'	2"	PE	5	90	-	-	1	-	-	-	-	-	-	-	-				

**APPROVED FOR CONSTRUCTION**

REVISIONS:  
 1. REVISED SCOPE PER VILLAGE OF NORTHFIELD COMMENTS  
 DATE: 1/9/2020  
 BY: [Signature]

FOREST PRESERVE  
DISTRICT OF COOK COUNTY

LEE RD

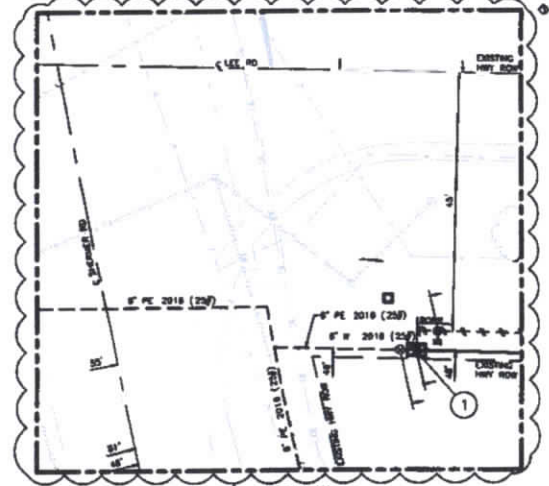


1. MESSAGE  
(1) GCS 711.62" (0" EXTENSION TIE-IN FC TO FC PIPE 07)  
INCL. (1) 6" COUPLING W/ FC CP  
(1) GCS 714.8 (W/RE TO W/RE CONNECTION)

SOIL & CAP  
(1) GCS 714.8 (W/RE TO W/RE CONNECTION)  
(SOIL RETENT W/RE PER GCS 848.3)  
(CONDUCT W/RE TEST PER GCS 848.3)

CONDUCT EXISTING PLANNING AT TIME OF EXISTING  
TEMP. (PER APPROVED CONTRACT)

2. MESSAGE  
(1) 6" W/RE FC SOIL 1.5.5  
(TEST SECTION 'A')



REVISION 1

- ENVIRONMENTAL NOTE:  
1. ROAD ARE TO BE KEPT CLEAN.  
2. REGULARLY INSPECT AND MAINTAIN EROSION CONTROL MEASURES.  
3. DISTURBED, IF APPLICABLE, IS TO OCCUR ON-SITE LOCATED ON A STABILIZED SURFACE AND IF NEEDED WITH SECONDARY CONFINEMENT, DO NOT DISCHARGE WATER DIRECTLY INTO DRAINS OR WETLANDS.  
4. ALL EXCAVATIONS AND BORE PITS SHOULD BE BACK FILLED AND STABILIZED BY THE END OF EACH WORKING DAY.  
5. EXCAVATION PITS AND STOCKPILES ARE TO BE KEPT OUTSIDE OF BUFFER, WETLANDS, FLOODLANDS, FLOODWAYS, AND STITCHES.  
6. ONLY REMOVE VEGETATION AS NEEDED TO MINIMIZE EROSION.

- CONSTRUCTION NOTE:  
1. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE.  
2. WHEN DRILLING PARALLEL TO FOREIGN UTILITIES MAINTAIN A MINIMUM SEPARATION OF 3' IF POSSIBLE.  
3. LOCATIONS OF BORE PITS AND STOCKPILES ARE APPROXIMATE.  
4. FIELD CORRECT ALL SERVICE TRANSFERS PRIOR TO RETURNING ANY EXISTING MAIN.  
DIMENSIONS WERE OBTAINED IN THE FIELD AND DIFFER FROM ATLAS VIEWER.

SYMBOL LEGEND

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

QUANTITY CHANGES THIS SHEET

ITEM	QUANTITY	ACTUAL
PIPE INSTALLATION THIS SHEET		
6" W/RE FC SOIL 1.5.5	633'	
PIPE ASSEMBLY THIS SHEET		
6" STEEL (1847)	654'	
6" STEEL (2015)	3'	
6" FC (2014)	3'	
PIPE BORING THIS SHEET		
6" BORING	633'	
FRESH BACKFILL THIS SHEET	0 CY	
ASPHALT & CONCRETE REPAIRS THIS SHEET	0 SF	
SERVICES TRANSFER THIS SHEET	3	

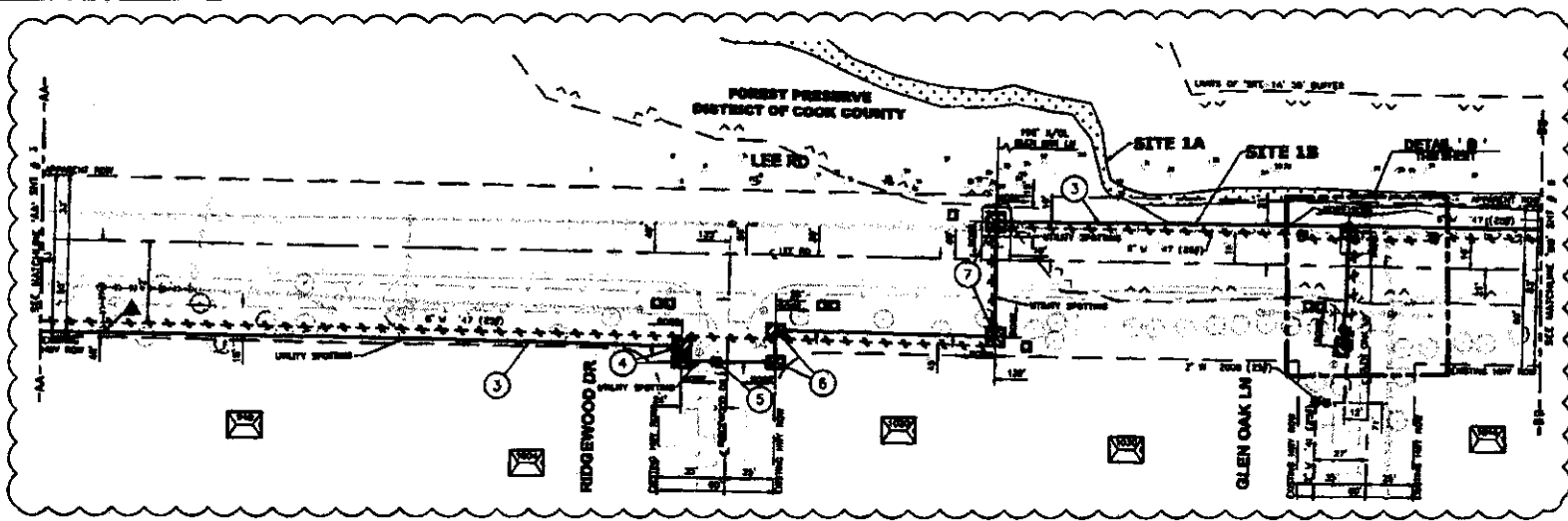
APPROVED FOR  
CONSTRUCTION

PROJECT: Nicor Gas

OWNER: COOK COUNTY	PROJECT: NORTHFIELD 702	DATE: 02/25/2020
OWNER: NORTHBROOK	PROJECT: P430 R122 3PM	
OWNER: METRO CONSTRUCTION	PROJECT: S. KALMECK	DATE: 02/25/2020
OWNER: 170388/170388	PROJECT: S. KALMECK	DATE: 02/25/2020
OWNER: 211145/17111	PROJECT: S. WEST	DATE: 01/08/2020
	PROJECT: S. SMITH	DATE: 01/10/2020
	PROJECT: S. JONES	DATE: 03/12/2020
	PROJECT: W/RE FC SOIL 1.5.5	DATE: 02/25/2020
	PROJECT: W/RE FC SOIL 1.5.5	DATE: 02/25/2020

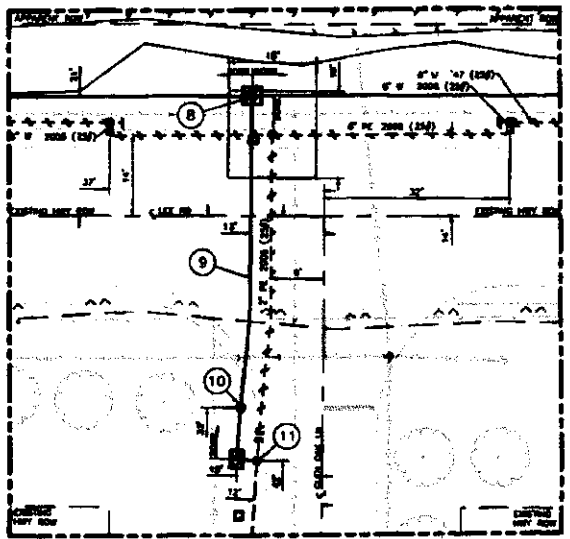
REVISED SCOPE PER	OK	CH	9	4/8/2020
VALLAZZ OF NORTHBROOK				
COMMENTS				
NO.	DESCRIPTION	BY	DATE	DATE





- 3. DETAIL (1) 2" PVC PER SEC 11.9 (NEW SECTION "A")
- 4. DETAIL (1) 2" PVC PER SEC 11.9 (NEW SECTION "A")
- 5. BREAK & TYP. REFERENCE (1) 1"1" ASPHALT PAVEMENT
- 6. DETAIL (1) 2" PVC PER SEC 11.9 (NEW SECTION "A")

- 7. DETAIL (1) 2" PVC PER SEC 11.9
- 8. DETAIL (1) SEC 721.67 (A) W/2" REC CORR 1" VC CORR 2" LATERAL BY (1) 2" EXTENSION VALVE AND (1) 2" ANTI SNIOR BLEND PC PIPE PER SEC 702 (1) 2" ANTI SNIOR BLEND PC PIPE PER SEC 702 (1) SEC 714.3 (USE TO MAKE CONNECTIONS)
- 9. DETAIL (1) 2" PVC PER SEC 11.9 (NEW SECTION "A")
- 10. DETAIL (1) SEC 728.06 (2" VC VALVE INSTALLATION BY) (1) 2" POLY VALVE PER SEC OF W/2"1" IS LONG (1) 2" EXTENSION VALVE AND (1) BLACK IRON "2"1"1"1" (1) COPPER WIRE #10 BASIC W/40 BROWN W/2"1" (1) 2"0"1" SPOULE YELLOW T-RACEOR W/2" 12 AND 3000 (A6 BRANDED)
- 11. DETAIL (1) SEC 721.67 (A) W/2" REC CORR 1" VC CORR 2" LATERAL BY (1) 2" REC W/ PVC PER SEC 702 (1) 2" ANTI SNIOR BLEND PC PIPE PER SEC 702 (1) SEC 714.3 (USE TO MAKE CONNECTIONS) (1) 2" PVC PER SEC 11.9



**REVISION 1**

- CONSTRUCTION AND:**
- LOCATION OF EXISTING UTILITY ARE APPROPRIATE.
  - WHERE BOLLER PARALLEL TO FRONT UTILITY MAINS A MINIMUM SEPARATION OF 2' IF APPROPRIATE.
  - LOCATIONS OF SOKE PITS AND MANHOLES ARE APPROPRIATE.
  - FIELD CONTROL ALL SERVICE TRANSMISSION PANS TO BE INSTALLED AND EMBOSSED WITH "NATIONAL GAS" AND "1.2" IN THE FIELD AND SERVICE FROM ABOVE SERVICE.

- CONSTRUCTION AND:**
- LOCATION OF EXISTING UTILITY ARE APPROPRIATE.
  - WHERE BOLLER PARALLEL TO FRONT UTILITY MAINS A MINIMUM SEPARATION OF 2' IF APPROPRIATE.
  - LOCATIONS OF SOKE PITS AND MANHOLES ARE APPROPRIATE.
  - FIELD CONTROL ALL SERVICE TRANSMISSION PANS TO BE INSTALLED AND EMBOSSED WITH "NATIONAL GAS" AND "1.2" IN THE FIELD AND SERVICE FROM ABOVE SERVICE.



ITEM	DESCRIPTION	QUANTITY	UNIT
2	12" W/2" 1/4" 30' BAYES	1	BT
3	12" W/2" 1/4" 30' BAYES	1	BT
4	12" W/2" 1/4" 30' BAYES	1	BT
5	12" W/2" 1/4" 30' BAYES	1	BT
6	12" W/2" 1/4" 30' BAYES	1	BT
7	12" W/2" 1/4" 30' BAYES	1	BT
8	12" W/2" 1/4" 30' BAYES	1	BT
9	12" W/2" 1/4" 30' BAYES	1	BT
10	12" W/2" 1/4" 30' BAYES	1	BT
11	12" W/2" 1/4" 30' BAYES	1	BT

DATE	REV.	DESCRIPTION	DISTANCE FROM		PROPOSED T.A.P. LOCATION	APPROVALS		SCALE
			EXISTING S.W.	EXISTING N.		DATE	DATE	
01/25/2020	1	12" W/2" 1/4" 30' BAYES	2' C/P	48' W/O/L	048.00	3.00'	3.00'	1" = 20'

**APPROVED FOR CONSTRUCTION**

**Nicor Gas**

DATE: 01/25/2020  
 TIME: 10:30 AM  
 LOCATION: 1111 S. ...  
 PROJECT: ...  
 DRAWN BY: ...  
 CHECKED BY: ...  
 APPROVED BY: ...

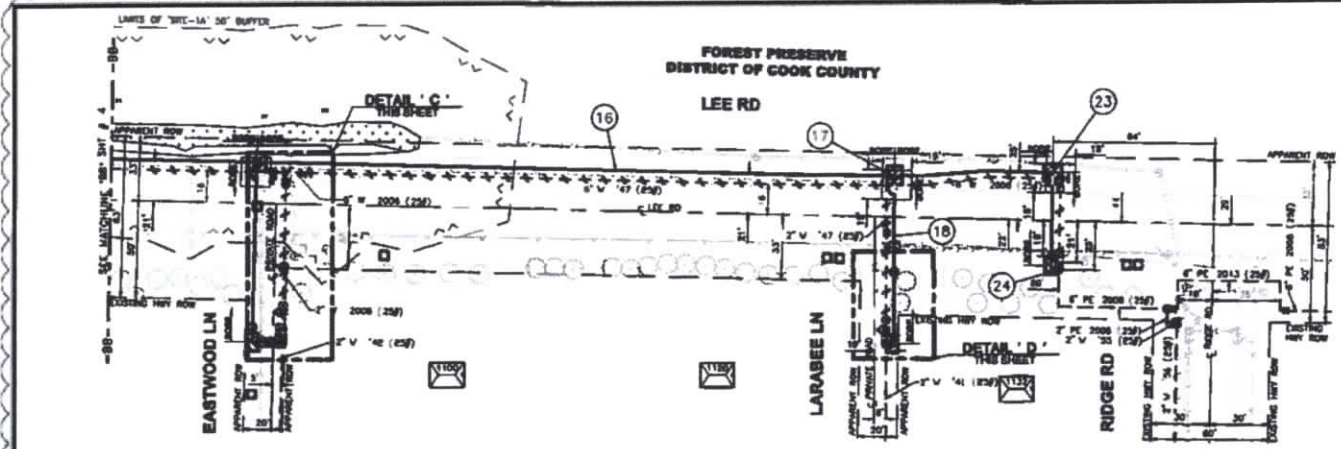
FOREST PRESERVE  
DISTRICT OF COOK COUNTY

LEE RD

LARABEE LN

RIDGE RD

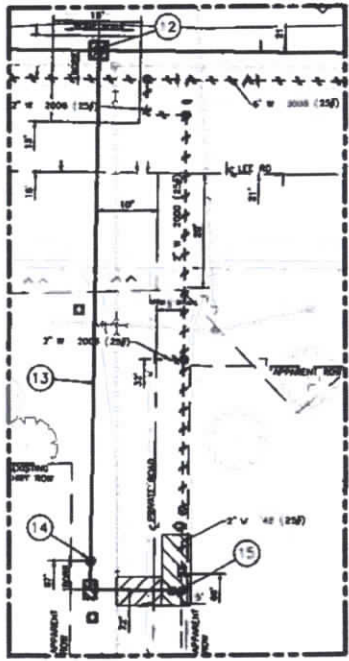
EASTWOOD LN



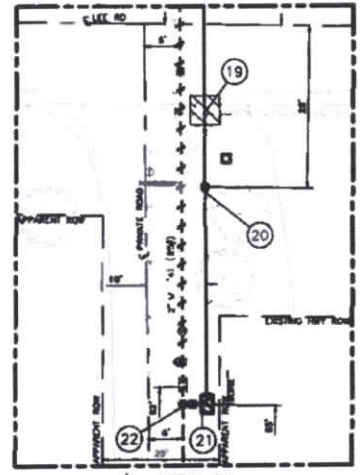
- 12. INSTALL  
(1) OCS 720.03" (2" & LARGER STL HOR - 2" FC LATERAL BY)  
"INCL (1) 2" TEE LAT IPS PER OCS 210.22 (LATERAL WELD TEE)  
(1) 2"x2" FITTING TRUSS IPS STL FC SDR 11.0 W/OCS 702  
(1) 3" ANTI-SHEAR SLEEVE FC PIPE PER OCS 702  
(1) OCS 714.3 (WIRE TO WIRE CONNECTION)
- 13. INSTALL  
(1) 11/2" 2" W/ 1/2" FC SDR 11.0  
(TEST SECTION 'C')
- 14. INSTALL  
(1) OCS 720.03" (2" FC VALVE INSTALLATION BY)  
"INCL (1) 2" POLY VALVE IPS FC W/ W/PWP 15 LONG  
(1) 4" EXTENSION VALVE BOX  
(1) BLACK WOOD 2"x10"x11"  
(1) COPPER WIRE #12 GAUGE HARD DRAWN HURRYE  
2500' SPOOLS YELLOW TRACING WIRE, 12 AMP SOLID  
(AS REQUIRED)  
(1) 2" 90° ELL IPS FC SDR 11.0

- 15. INSTALL  
(1) OCS 720.03" (2" & LARGER STL HOR - 2" FC LATERAL BY)  
"INCL (1) 2" TEE LAT IPS PER OCS 210.22 (LATERAL WELD TEE)  
(1) 2"x2" FITTING TRUSS IPS STL FC SDR 11.0 W/OCS 702  
(1) 3" ANTI-SHEAR SLEEVE FC PIPE  
(1) OCS 714.3 (ETC WIRE CONNECTION W/ DETACHABLE ANODE WIRE) FOR STL  
TO PE SYSTEMS)  
"INCL (1) BOX TERMINAL 1/2" LG 4" OD  
(1) 2"x2" ANODE INSTALLED ON EXISTING PIPE SEE SPEC FOR  
COMPLETE LIST OF REQUIRED MATERIALS  
CUT & CAP  
(1) 2" CAP IN BALLY THIRD ARMED 150  
(REAL RETIRED MANH PER OCS 848)  
BREAK & TYPIC REPLACE  
(1) 3"x3" ASPHALT PAVEMENT
- 16. INSTALL  
(24) 6" W/ 1/2" FC SDR 13.3  
(TEST SECTION 'A')
- 17. INSTALL  
(1) OCS 721.17" (8-IN-LINE 3-WAY TEE CORR 6" FC HOR/ LAT BY)  
"INCL (1) 6" TEE 3-WAY IPS FC SDR 13.3 BY  
(1) OCS 714.3 (WIRE TO WIRE CONNECTION)  
(1) 6"x4" CONIC RED FC IPS BY
- 18. INSTALL  
(2) 4" W/ 1/2" FC SDR 11.5  
(TEST SECTION 'A')
- 19. BREAK & TYPIC REPLACE  
(1) 1"x1" ASPHALT PAVEMENT

- 20. INSTALL  
(1) OCS 720.04" (6" FC VALVE INSTALLATION BY)  
"INCL (1) 6" POLY VALVE IPS FC W/ W/PWP 15 LONG  
(1) 4" EXTENSION VALVE BOX  
(1) BLACK WOOD 2"x10"x11"  
(1) COPPER WIRE #12 GAUGE HARD DRAWN HURRYE  
2500' SPOOLS YELLOW TRACING WIRE, 12 AMP SOLID  
(AS REQUIRED)
- 21. INSTALL  
(4) 2" W/ 1/2" FC SDR 11.0  
(TEST SECTION 'A')



DETAIL III  
SCALE: T = 10'



DETAIL IV  
SCALE: T = 10'

- 22. INSTALL  
(1) OCS 720.03" (2" & LARGER STL HOR - 2" FC LATERAL BY)  
"INCL (1) 2" TEE LAT IPS PER OCS 210.22 (LATERAL WELD TEE)  
(1) 2"x2" FITTING TRUSS IPS STL FC SDR 11.0 W/OCS 702  
(1) 3" ANTI-SHEAR SLEEVE FC PIPE  
(1) OCS 714.3 (ETC WIRE CONNECTION W/ DETACHABLE ANODE WIRE) FOR STL  
TO PE SYSTEMS)  
"INCL (1) BOX TERMINAL 1/2" LG 4" OD  
(1) 2"x2" ANODE INSTALLED ON EXISTING PIPE SEE SPEC FOR  
COMPLETE LIST OF REQUIRED MATERIALS  
(1) 2" 90° ELL IPS FC SDR 11.0  
(1) 4"x4" CONIC RED FC IPS BY  
CUT & CAP  
(1) 2" CAP IN BALLY THIRD ARMED 150  
(REAL RETIRED MANH PER OCS 848)  
BREAK & TYPIC REPLACE  
(1) 3"x3" ASPHALT PAVEMENT
- 23. INSTALL  
(1) 8" 90° ELL IPS FC SDR 13.3
- 24. INSTALL  
(1) OCS 720.03" (6" FC VALVE INSTALLATION BY)  
"INCL (1) 6" POLY VALVE IPS FC W/ W/PWP 15 LONG  
(1) 4" EXTENSION VALVE BOX 48" LONG  
(1) BLACK WOOD 2"x10"x11"  
(1) COPPER WIRE #12 GAUGE HARD DRAWN HURRYE  
2500' SPOOLS YELLOW TRACING WIRE, 12 AMP SOLID  
(AS REQUIRED)  
CUT & CAP  
(1) OCS 720.03" (PURGE CHG FC, 8" W/ 1/2" FC W/ 1/2" FC VOL TEE)  
(1) 2" W/ 1/2" FC SDR 11.0  
(2) 2" W/ 1/2" FC SDR 13.3  
(1) 2" CAP FC FC BY  
(1) 6" CAP FC FC BY  
(1) 6" TEE W/ VOL IPS FC BY  
(1) OCS 714.3 (WIRE TO WIRE CONNECTION)  
REAL RETIRED MANH PER OCS 848)  
(CONDUCT WIRE TEST PER OCS 848.2)

REVISION 1



- ENVIRONMENTAL NOTES**
1. WORK AREA TO BE KEPT CLEAN.
  2. EXISTING UTILITIES TO BE MAINTAINED AND PROTECTED.
  3. EXISTING UTILITIES TO BE MAINTAINED AND PROTECTED.
  4. ALL EXCAVATIONS AND BORE PITS SHOULD BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKING DAY.
  5. EXCAVATION PITS AND BORE PITS ARE TO BE KEPT OUTSIDE OF BUFFERS, WILDLIFE, FLOODPLAINS, FLOODWAYS, AND OTHERS.
  6. ONLY REMOVE VEGETATION AS NEEDED TO UNHINDER CONSTRUCTION.

- CONSTRUCTION NOTES**
1. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE.
  2. WHEN DRILLING PARALLEL TO FORDEN UTILITIES MAINTAIN A MINIMUM SEPARATION OF 3" IF POSSIBLE.
  3. LOCATIONS OF BORE PITS AND STOCKPILES ARE APPROXIMATE.
  4. FIELD CONFIRM ALL SERVICE TRANSFERS PRIOR TO RETURNING ANY EXISTING MANH.
  5. DIMENSIONS WERE DETERMINED IN THE FIELD AND OFFICE FROM AERIAL VIEWERS.



NO.	DATE	BY	DESCRIPTION
1	02/25/2020	J. KALINICK	ISSUED FOR PERMITS
2	03/09/2020	J. KALINICK	ISSUED FOR PERMITS
3	03/18/2020	J. KALINICK	ISSUED FOR PERMITS
4	03/18/2020	J. KALINICK	ISSUED FOR PERMITS
5	03/18/2020	J. KALINICK	ISSUED FOR PERMITS

PIPE INSTALLATION THIS SHEET	QUANTITY	ACTUAL
2" PIPE IPS FC SDR 13.3	114'	
2" W/ 1/2" FC SDR 13.3	87'	
4" W/ 1/2" FC SDR 13.3	547'	

PIPE REPLACEMENT THIS SHEET	QUANTITY	ACTUAL
2" STEEL (1047)	56'	
2" STEEL (1048)	11'	
2" STEEL (1047)	23'	
2" STEEL (2000)	70'	
2" STEEL (2004)	10'	
6" STEEL (1047)	480'	
6" STEEL (2004)	18'	
6" STEEL (2008)	3'	
6" FC (2008)	28'	

PIPE BORING THIS SHEET	QUANTITY	ACTUAL
2" BORING	90'	
4" BORING	41'	
6" BORING	200'	

WEIGHT STOCKPILE THIS SHEET	QUANTITY	ACTUAL
12 CT		

APPROXIMATE LOCATION OF STOCKPILE W/ SALT FENCE	QUANTITY	ACTUAL
101 SF		

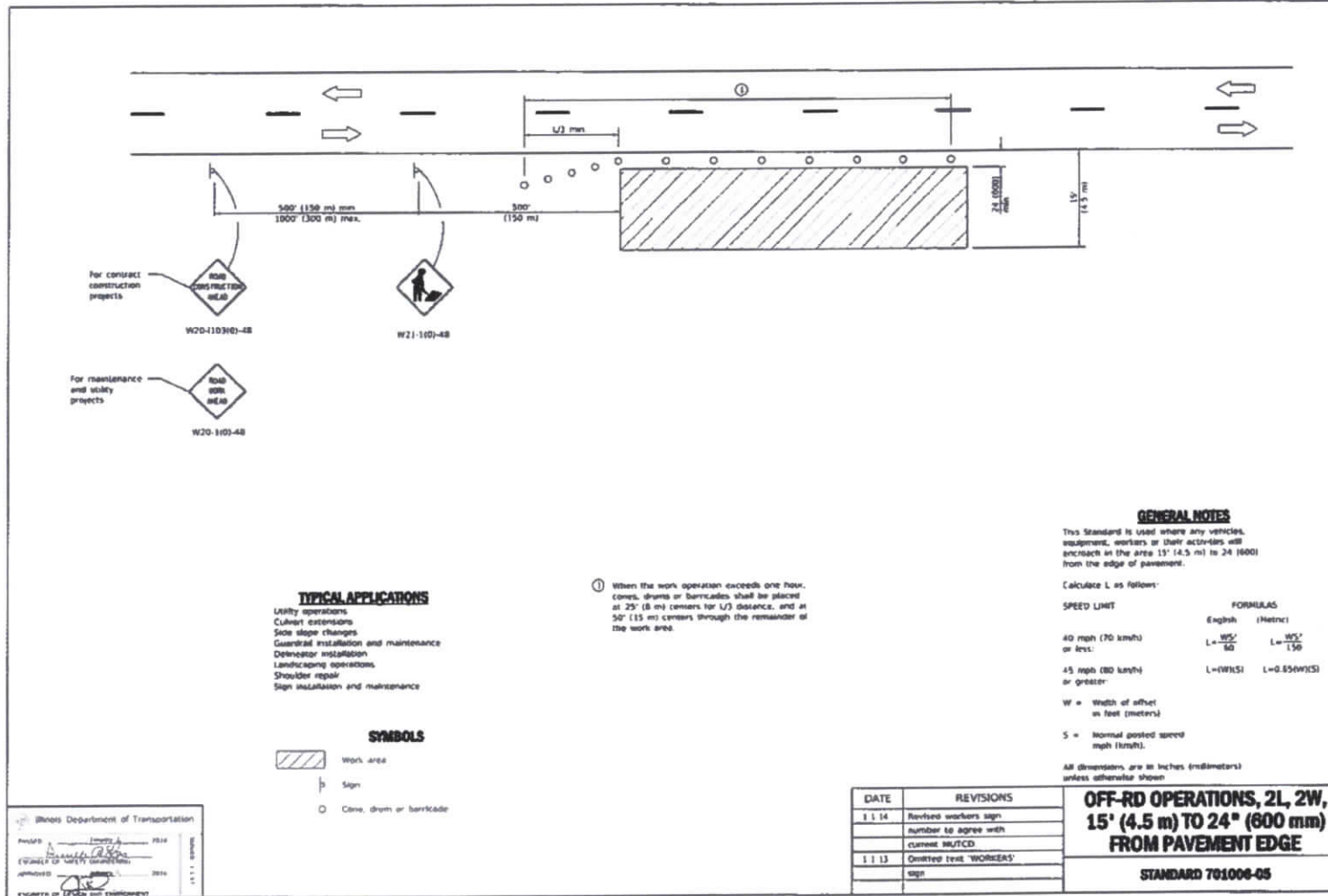
  

SERVICE TRANSFER THIS SHEET	QUANTITY	ACTUAL
2		

APPROVED FOR  
CONSTRUCTION

NO.	DATE	BY	DESCRIPTION
1	02/25/2020	J. KALINICK	ISSUED FOR PERMITS
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3	03/18/2020	J. KALINICK	ISSUED FOR PERMITS
4	03/18/2020	J. KALINICK	ISSUED FOR PERMITS
5	03/18/2020	J. KALINICK	ISSUED FOR PERMITS

# I.D.O.T. TRAFFIC MAINTENANCE STANDARDS



Illinois Department of Transportation  
 PROJECT: 11001-1-1014  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]  
 PROJECT OR DESIGN TITLE: [Blank]

DATE	REVISIONS
1.1.14	Revised workers sign number to agree with current MUTCD
1.1.13	Omited text 'WORKERS' sign

**OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE**  
**STANDARD 701006-05**

**REVISION 1**

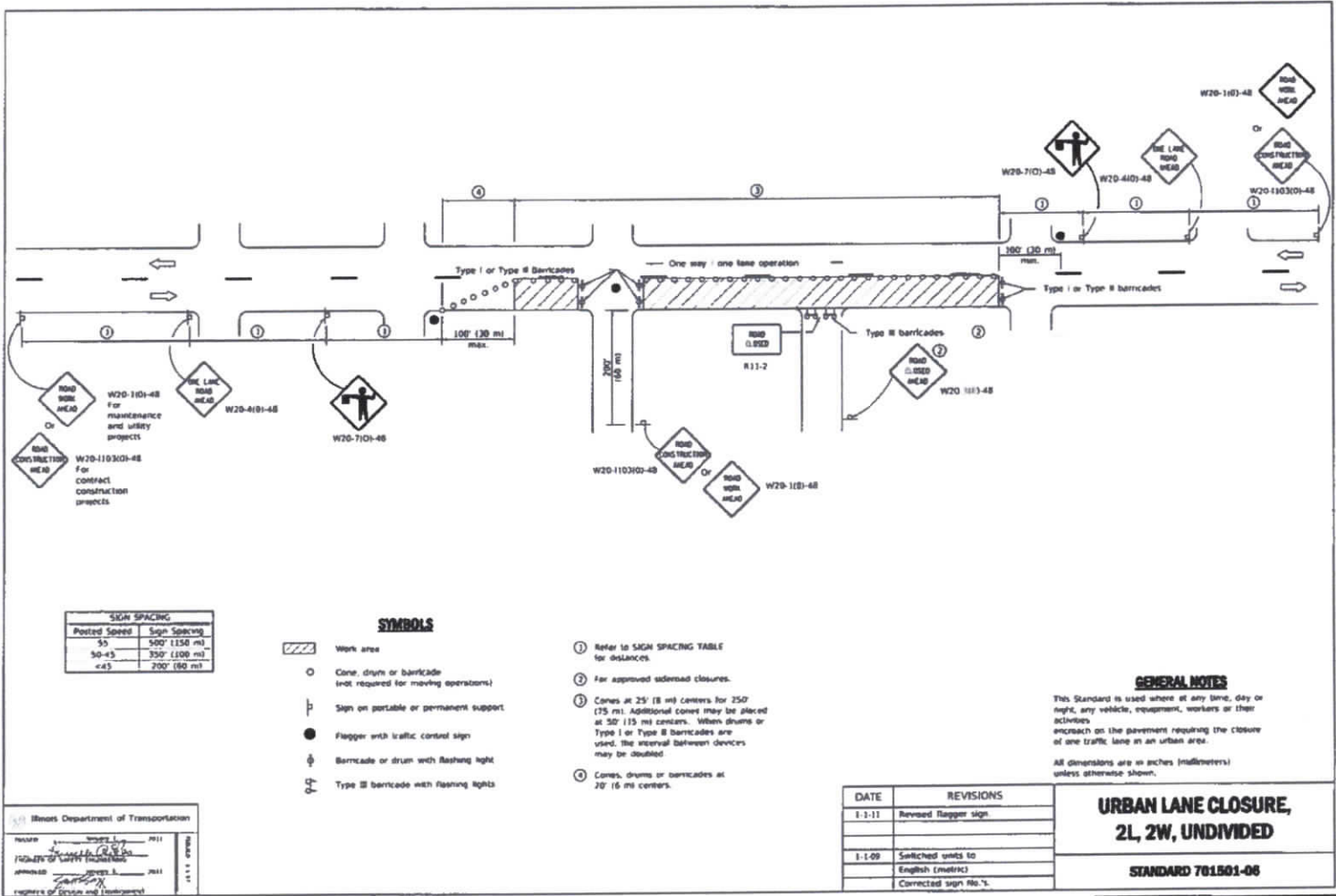
**Nicor Gas**

COMP	PROJECT	NO	DATE
NORTHFIELD	NORTHFIELD	8125	3/16
NORTHMOORE	NORTHMOORE	8125	3/16
CONSTRUCTION	CONSTRUCTION	8125	3/16
CONSTRUCTION	CONSTRUCTION	8125	3/16
CONSTRUCTION	CONSTRUCTION	8125	3/16
CONSTRUCTION	CONSTRUCTION	8125	3/16
CONSTRUCTION	CONSTRUCTION	8125	3/16
CONSTRUCTION	CONSTRUCTION	8125	3/16
CONSTRUCTION	CONSTRUCTION	8125	3/16
CONSTRUCTION	CONSTRUCTION	8125	3/16

**APPROVED FOR CONSTRUCTION**

NO CHANGES THE SHEET DE CH 1/1/2008  
 RECORDED BY DATE 1/1/2008

# I.D.O.T. TRAFFIC MAINTENANCE STANDARDS



SIGN SPACING	
Posted Speed	Sign Spacing
50	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

- SYMBOLS**
- Work area
  - Cone, drums or barricade (not required for moving operations)
  - Sign on portable or permanent support
  - Flagger with traffic control sign
  - Barricade or drum with flashing light
  - Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved adjoined closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

**GENERAL NOTES**

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

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

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric)
	Corrected sign No.'s.

**URBAN LANE CLOSURE,  
2L, 2W, UNDIVIDED**

STANDARD 701.501-06

**REVISION 1**

Nicor Gas

DRIVER	MARK	NORTHFIELD	DATE	11/12/2020
COUNT	221	SPW		
CITY	SMITH			
STATE				
CONTRACTOR	D. GALBRAITH			02/23/2020
INSPECTOR	D. GALBRAITH			02/23/2020
INSPECTOR	F. BEST			07/06/2020
INSPECTOR	D. SMITH			07/10/2020
INSPECTOR	E. JONES			07/12/2020
INSPECTOR	MARK			07/12/2020

7 of 10

**APPROVED FOR CONSTRUCTION**

DATE	5/8/2020
BY	MARK

Iliad Department of Transportation  
 PREPARED BY: *[Signature]*  
 APPROVED BY: *[Signature]*  
 REGISTERED PROFESSIONAL ENGINEER



### ROLLED EROSION CONTROL PRODUCTS



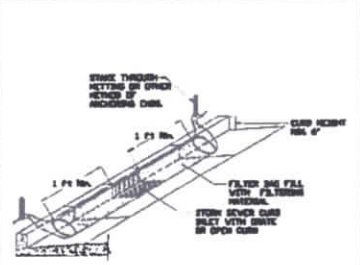
NOTES:  
 1. DIRECTION OF SPINNING IS THE DIRECTION OF THE ROLL.  
 2. MAKING FOR SETBACK.  
 3. SPACING FOR SETBACK.  
 4. SPACING FOR SETBACK.



NOTES:  
 1. DIMENSIONS ARE NOT TO SCALE.  
 2. TOP OF MULCH OR OTHER COVERING SHALL BE TURNED AT LEAST 45° SPINNING.  
 3. DIMENSIONS SHALL BE 1/2" TO 1" DEEP, 2" TO 3" LONG.  
 4. DIMENSIONS SHALL NOT EXCEED ABOVE THE COVERING AND MULCH.  
 5. SPACING THE TOP OF THE MULCH WITH EACH SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE MULCH WITH EACH.

Approved:	Sub:	Checked:	Sub:
Project:	Sub:	Checked:	Sub:
Design:	Sub:	Checked:	Sub:
Approved:	Sub:	Checked:	Sub:

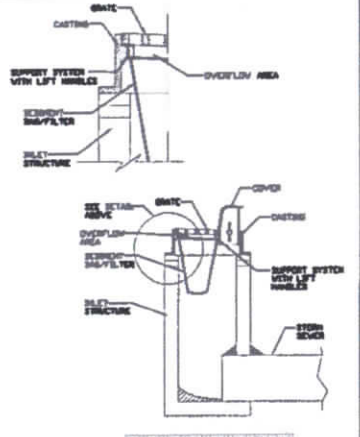
### INLET PROTECTION - PAVED AREAS CURB PROTECTION



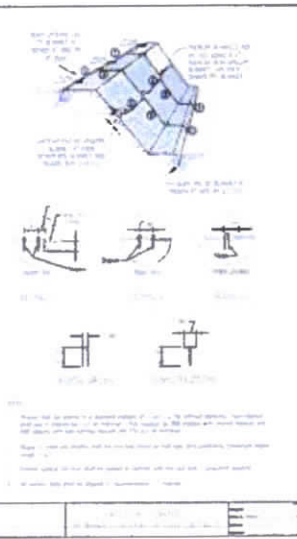
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Approved:	Sub:	Checked:	Sub:
Project:	Sub:	Checked:	Sub:
Design:	Sub:	Checked:	Sub:
Approved:	Sub:	Checked:	Sub:

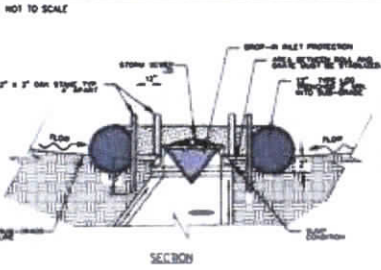
### INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



Approved:	Sub:	Checked:	Sub:
Project:	Sub:	Checked:	Sub:
Design:	Sub:	Checked:	Sub:
Approved:	Sub:	Checked:	Sub:



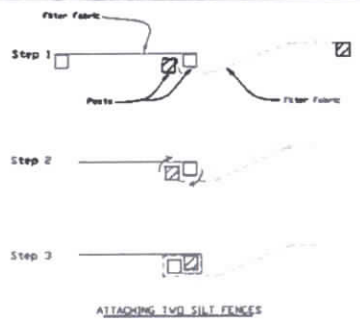
### INLET PROTECTION LOG TYPE



NOTES:  
 1. 2" x 2" nominal hardwood stakes, 4 feet minimum length, driven into ground approximately 18 inches, stakes driven a minimum width of 7 inches away from the drop inlet.  
 2. Area inside the log, non-face of fabric to structure, must be stabilized with erosion control blanket, turf reinforcement mat, geotextile mat, or other approved material.  
 3. The maximum distance between the stakes should be 4 feet.  
 4. A maintenance schedule must include a sediment accumulation of less than 50% of the height of the log.

Approved:	Sub:	Checked:	Sub:
Project:	Sub:	Checked:	Sub:
Design:	Sub:	Checked:	Sub:
Approved:	Sub:	Checked:	Sub:

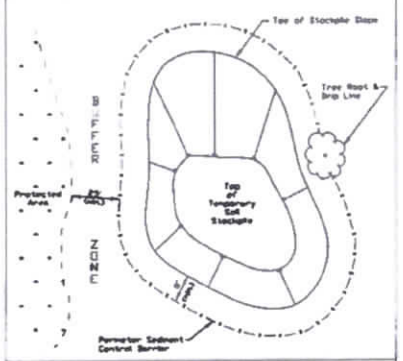
### SILT FENCE - SPLICING TWO FENCES



NOTES:  
 1. Place the end post of the second fence into the end post of the first fence.  
 2. Attach both posts at least 20 degrees in a clockwise direction to create a tight seal with the fabric's texture.  
 3. Cut the fabric near the bottom of the stakes to accommodate the top.  
 4. Drive both posts a minimum of 12 inches into the ground and bury the top.  
 5. Compact the fabric to prevent water from passing through.

Approved:	Sub:	Checked:	Sub:
Project:	Sub:	Checked:	Sub:
Design:	Sub:	Checked:	Sub:
Approved:	Sub:	Checked:	Sub:

### TEMPORARY SOIL STOCKPILE DETAIL



NOTES:  
 1. Stockpile shape should be based on angle of repose of the soil material to avoid potential sloughing of the slope.  
 2. Soil stockpile to be stabilized in accordance with practical standards.  
 3. Do not locate stockpile along overhead drainage flow path, adjacent floodways, drop line or over the crest of adjacent trees.  
 4. Providing for sediment control practices may be required along haul roads and entrance/exit locations for access the soil stockpile that can create flow paths for sediment runoff.  
 5. Installation of benches, terraces, or slope interrupters should be considered.  
 6. Avoid building soil stockpiles on impervious surfaces.  
 7. Linear sediment trap surrounding the stockpile base may be used to control sediment.

Approved:	Sub:	Checked:	Sub:
Project:	Sub:	Checked:	Sub:
Design:	Sub:	Checked:	Sub:
Approved:	Sub:	Checked:	Sub:

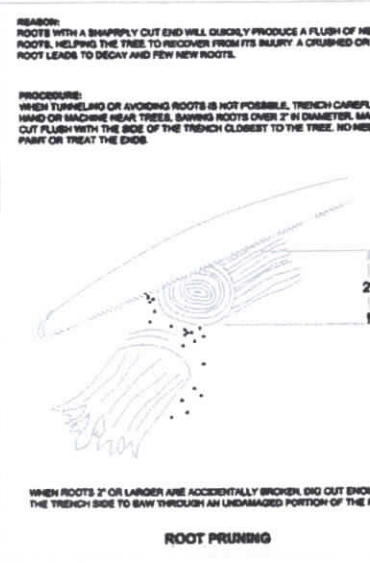
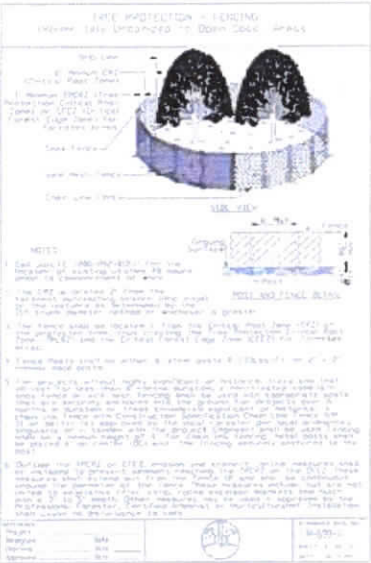
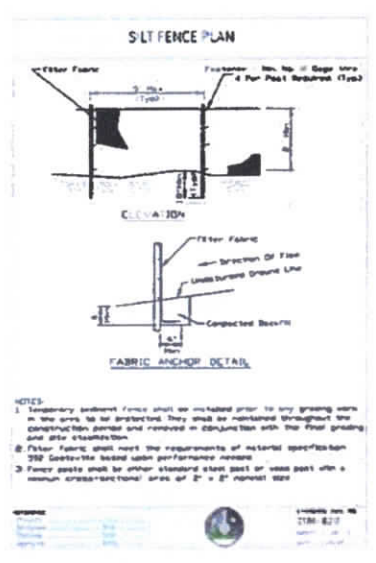
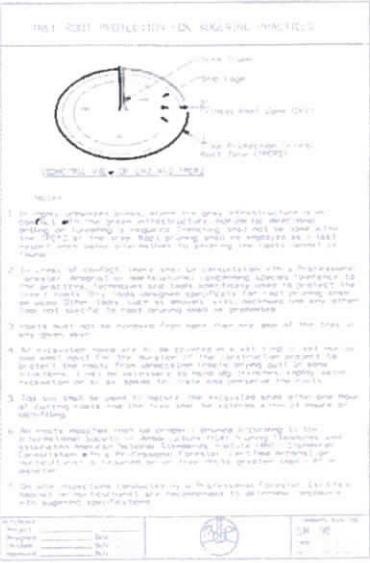
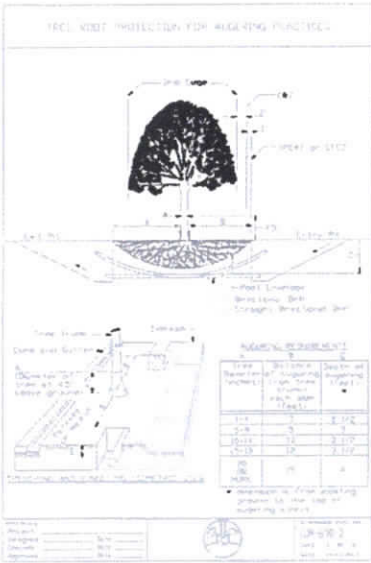
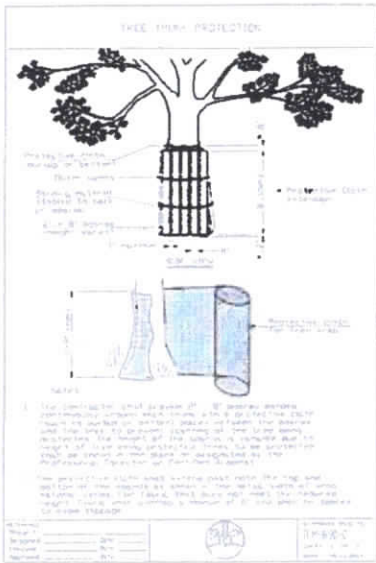
### REVISION 1

Nicator Gas	
Project:	Northfield
Sheet:	102
Drawn:	TECH
Checked:	RIZC
Approved:	SPM
Project:	CONSTRUCTION
Sheet:	102
Drawn:	TECH
Checked:	RIZC
Approved:	SPM
Project:	CONSTRUCTION
Sheet:	102
Drawn:	TECH
Checked:	RIZC
Approved:	SPM
Project:	CONSTRUCTION
Sheet:	102
Drawn:	TECH
Checked:	RIZC
Approved:	SPM

### APPROVED FOR CONSTRUCTION

NO CHANGES THIS SHEET	BY:	DATE:
DESCRIPTION:	BY:	DATE:





- CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.**
1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
  2. ALL EROSION CONTROL, SEDIMENTATION, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.
  3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
  4. ALL EROSION CONTROL, SEDIMENTATION, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.
  5. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
  6. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
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**REVISION 1**

**Nicor Gas**

<b>APPROVED FOR CONSTRUCTION</b>		DATE: 07/23/2020
NO CHANGES THIS SHEET	BY: [Signature]	DATE: 07/23/2020
DESCRIPTION	DATE	DATE

Date: 1/7/2020

Tree Survey  
Right Offsets (South/East)

Job No. M11145

Number	Size <sup>1</sup>	Species	H <sup>2</sup>	S <sup>3</sup>	O <sup>3</sup>	NLEB <sup>4</sup>	Comments <sup>5</sup>
1	4.0	Ironwood	P	P	V	No	
2	MS	European buckthorn	F	F	V	No	4; 3.0; 3.0; 3.0
3	3.5	Ironwood	F	F	V	No	
4	4.0	European buckthorn	F	P	V	No	
5	MS	European buckthorn	G	F	V	No	3.5, 3.0x3; 2.0x3; 1.0x3
6	MS	European buckthorn	F	P	V	No	4.0; 2.5; 2.5; 1.0x3
7	MS	European buckthorn	F	P	V	No	5.0; 4.0; 2.5
8	11.0	White oak	G	F	V	No	
9	MS	European buckthorn	G	F	V	No	5.5; 2.5; 2.0
10	MS	European buckthorn	G	F	V	No	5.5; 4.5; 4; 2.0x3
11	MS	Red oak	F	P	V	No	16.0; 12.0 (dead branch)
12	3.0	Ironwood	F	F	V	No	
13	MS	European buckthorn	F	F	V	No	4.0; 2.5; 2.5; 1.0x3
14	6.5	White oak	F	F	V	No	
15	11.0	Shagbark hickory	F	F	V	Yes	Peeling bark
16	8.0	White oak	F	F	V	No	
17	5.0	Common buckthorn	F	F	V	No	
18	10.0	Shagbark hickory	F	F	V	Yes	Peeling bark
19	8.0	White oak	F	F	V	No	
20	16.0	White oak	F	F	V	No	
21	4.0	European buckthorn	F	F	V	No	
22	5.0	European buckthorn	G	F	V	No	
23	16.0	White oak	F	F	V	No	
24	4.0	Slippery elm	F	P	V	No	
25	4.0	Green ash	P	P	V	Yes	Cracks
26	8.5	Green ash	D	D	V	No	EAB
27	6.5	White oak	P	P	V	No	
28	4.0	European buckthorn	F	F	V	No	
29	4.0	White oak	G	F	V	No	
30	6.0	European buckthorn	G	F	V	No	
31	4.0	European buckthorn	F	F	V	No	
32	8.0	Dead	D	D	V	No	EAB
33	6.0	White oak	F	F	V	No	
34	4.0	American elm	P	F	V	No	Poison Ivy
35	6.0	Slippery elm	F	P	V	No	
36	14.0	American elm	F	F	V	No	
37	MS	European alder	G	F	V	No	7.0; 4.5; 3.5
38	8.5	European buckthorn	G	F	V	No	
39	6.5	American elm	F	F	V	No	
40	8.0	European buckthorn	G	F	V	No	
41	28.5	White oak	F	F	V	No	
42	4.5	European alder	G	F	V	No	
43	10.5	White oak	P	F	V	No	Poison Ivy
44	4.0	Green ash	P	P	V	No	
45	3.0	White birch	G	F	V	No	
46	4.0	Eastern cottonwood	G	F	V	No	
47	15.0	Black walnut	G	F	V	No	
48	4.0	Dead	D	D	V	No	

- 1 MS= Multi-stemmed
- 2 H=Health, S=Structure; E=Excellent, G= Good, F= Fair, P= Poor, D= Dead
- 3 D= Origin; V= Volunteer, L= Landscaped
- 4 NLEB= Northern long-eared bat habitat (e.g., peeling bark, cracks, holes, crevices, snags)
- 5 EAB= [Evidence of] Emerald Ash Borer

REVISION 1

<b>APPROVED FOR CONSTRUCTION</b>																																											
		<table border="1"> <tr><td>DATE</td><td>1/7/2020</td></tr> <tr><td>BY</td><td>J. JONES</td></tr> <tr><td>FOR</td><td>CONSTRUCTION</td></tr> <tr><td>PROJECT NO.</td><td>M11145</td></tr> <tr><td>LOCATION</td><td>1111 S. 1111 W.</td></tr> <tr><td>DATE</td><td>1/7/2020</td></tr> <tr><td>BY</td><td>J. JONES</td></tr> <tr><td>FOR</td><td>CONSTRUCTION</td></tr> <tr><td>PROJECT NO.</td><td>M11145</td></tr> <tr><td>LOCATION</td><td>1111 S. 1111 W.</td></tr> <tr><td>DATE</td><td>1/7/2020</td></tr> <tr><td>BY</td><td>J. JONES</td></tr> <tr><td>FOR</td><td>CONSTRUCTION</td></tr> <tr><td>PROJECT NO.</td><td>M11145</td></tr> <tr><td>LOCATION</td><td>1111 S. 1111 W.</td></tr> </table>		DATE	1/7/2020	BY	J. JONES	FOR	CONSTRUCTION	PROJECT NO.	M11145	LOCATION	1111 S. 1111 W.	DATE	1/7/2020	BY	J. JONES	FOR	CONSTRUCTION	PROJECT NO.	M11145	LOCATION	1111 S. 1111 W.	DATE	1/7/2020	BY	J. JONES	FOR	CONSTRUCTION	PROJECT NO.	M11145	LOCATION	1111 S. 1111 W.										
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