



Nicor Gas™

An AGL Resources Company

90 N. Finley Rd.
Glen Ellyn IL 60137

REVISION 2

Application for Permit

To: Mr. Al Diaz
Assistant Village Engineer
19 East Chicago Avenue
Hinsdale, IL 60181

Date: March 14, 2019

W.O. 135497/335497

PERMIT:

Nicor Gas hereby requests permission to:

INSTAL: 16,335' of 2" pe and 885' of 4" pe (per attached drawings)

Location: Western Avenue to Quincy Street

MUST PROVIDE WRITTEN NOTIFICATION TO ALL RESIDENTS WITHIN THE PROJECT LIMITS.

Permit Granted

Nicor Gas Company

Signed *Al Diaz*
Title *Assistant Village Eng.*
Date *4/1/19*

By: Mike Runge F.O. C. Supervisor

Approved: *Mike Runge*

Phone Number: (224) 760-5385

Sign, date and return one copy to Nicor Gas. One copy is for your records.

NICOR GAS - CONSTRUCTION

BARE STEEL MAIN REPLACEMENT-BS189

WESTERN AVENUE TO QUINCY STREET

WESTMONT/HINSDALE/ CLARENDON HILLS, ILLINOIS

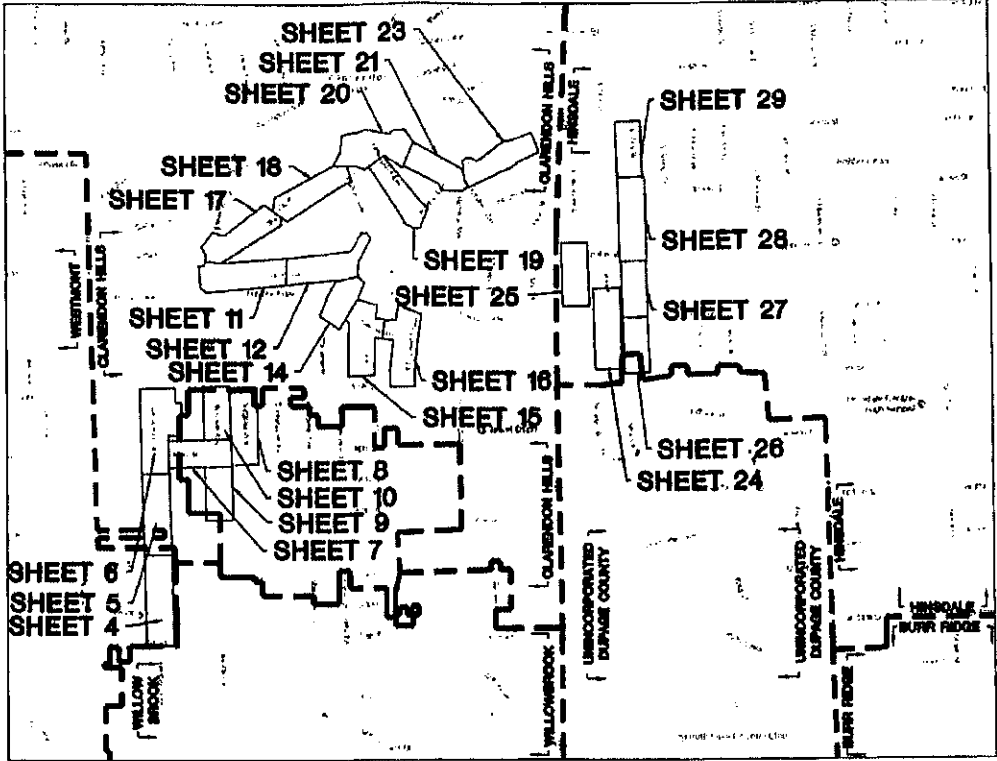
W.O. 135497/335497 INVESTING IN ILLINOIS
A Nicor Gas System Improvement Initiative

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 PURPOSES ONLY.
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 ALL MAIN WITH A MINIMUM COVER OF 3' UNLESS OTHERWISE NOTED.
6. 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.
7. CONTRACTOR SHALL FURNISH AND INSTALL ALL CAPS AND OTHER FITTINGS NECESSARY FOR TESTING THE MAIN.
8. ALL 8" AND LARGER STEEL PIPE THAT IS BORED MUST BE DUAL COATED.
9. PLUG AND/OR CAP RETIRED 6" AND LARGER MAINS EVERY 660' PER GCS 849.
10. INSTALL VERTICAL ELBOWS AS REQUIRED PER GCS 881.
11. EXTEND MAIN TO LAST SERVICE.
12. INSTALL LOCATING WIRE AND FIELD BEND PROPOSED PE PIPE PER GCS 700.
13. RETIRE OLD MAIN PER GCS 849.
14. IT IS THE RESPONSIBILITY OF THE NICOR GAS REPRESENTATIVE, CONTRACTOR, AND ANYONE INVOLVED IN THE CONSTRUCTION OF THE FACILITIES TO FOLLOW THE LATEST NICOR GAS GMS AND GCS SPECIFICATIONS. CONTACT THE OPERATIONS AND TECHNICAL STANDARDS DEPARTMENT AT (630)388-2878 FOR A COPY OF THE LATEST EDITION.
15. COORDINATE WITH NICOR GAS INSPECTOR FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO STARTING ANY EXCAVATION. EXERCISE CARE WHEN EXCAVATING NEAR EXISTING STRUCTURES.
16. ANY PROPOSED DIRECTIONALLY BORED PIPE TO BE INSTALLED PER NICOR GAS DIRECTIONAL BORING GUIDELINES DATED DECEMBER 15, 2005.
17. 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.
18. REMOVE TOP SECTION OF THE VALVE BOX FROM VALVES ON THE RETIRED MAIN. BACKFILL WITH SAND AND MATCH EXISTING PAVEMENT IF APPLICABLE.
19. 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.
20. 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. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
21. PROJECT CONTACT: GENE EASLEY
NICOR GAS
CONSTRUCTION SUPERINTENDENT
(630) 317-2267

ENVIRONMENTAL NOTES

1. PCB WIPE SAMPLES, PERFORMED BY NICOR GAS EMPLOYEES, ARE REQUIRED FOR ALL 4" AND LARGER PIPE THAT IS ABANDONED 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, HEALTH AND SAFETY (EHS).
2. COLLECT AND PROPERLY DISPOSE OF ALL LIQUIDS FROM PIPELINES BEING RETIRED.
3. ANY SPILLS SHOULD BE CONTAINED AND IMMEDIATELY REPORTED TO EHS. PLEASE CALL THE EHS PAGER (630-512-2664). REFER TO THE ENVIRONMENTAL PROCEDURES MANUAL FOR ADDITIONAL INFORMATION ON SPILL RESPONSE.
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 EHS.
6. IF CONTAMINATED SOIL IS SUSPECTED, CALL KEITH BODGER (630-514-7589) IN EHS 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 EHS (JULIE PASCHAL AT 630-392-7013 OR CLAUDIA MACHOLZ AT 630-669-9361).
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 EHS (JULIE PASCHAL AT 630-392-7013 OR CLAUDIA MACHOLZ AT 630-669-9361).
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 EHS (JULIE PASCHAL AT 630-392-7013 OR CLAUDIA MACHOLZ AT 630-669-9361). AFTER CONTAINING THE MATERIAL AND CONTACTING EHS, 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.
15. WHEN PRUNING ELM OR ASH TREES, ALL PRUNING AND CUTTING TOOLS SHALL BE CLEANED WITH RUBBING ALCOHOL BETWEEN USES TO PREVENT THE SPREAD OF DISEASE OR FUNGUS.



LOCATION MAP
CLARENDON HILLS, ILLINOIS
(NOT TO SCALE)

TOTAL PIPE RETIREMENT			ESTIMATED	ACTUAL	TOTAL PIPE RETIREMENT			ESTIMATED	ACTUAL
1-1/2" STEEL (1930)			335'		2" STEEL (1950)		625'		
1-1/2" STEEL (1939)			1150'		2" STEEL (1957)		105'		
1-1/2" STEEL (1940)			255'		2" STEEL (1958)		70'		
1-1/2" STEEL (1941)			105'		2" STEEL (1959)		310'		
1-1/2" STEEL (1948)			500'		2" STEEL (1961)		79'		
1-1/2" STEEL (1948)			235'		2" STEEL (1962)		470'		
1-1/2" STEEL (1950)			405'		2" STEEL (1963)		5'		
1-1/2" STEEL (1951)			325'		2" STEEL (1966)		960'		
1-1/2" STEEL (1954)			25'		2" STEEL (1968)		80'		
1-1/2" STEEL (1958)			100'		2" STEEL (1975)		865'		
1-1/2" STEEL (1959)			110'		2" STEEL (1982)		400'		
1-1/2" STEEL (1975)			75'		2" STEEL (1987)		10'		
2" STEEL (UNK)			145'		2" STEEL (1988)		250'		
2" STEEL (1932)			40'		2" STEEL (1990)		10'		
2" STEEL (1935)			20'		4" STEEL (1946)		2135'		
2" STEEL (1936)			1085'		4" STEEL (1952)		200'		
2" STEEL (1939)			1180'		4" STEEL (1956)		330'		
2" STEEL (1940)			520'		4" STEEL (1989)		70'		
2" STEEL (1941)			540'		4" STEEL (1987)		5'		
2" STEEL (1946)			205'		1-1/4" STEEL VALVE (1946)		1		
2" STEEL (1948)			1610'		1-1/2" STEEL VALVE (1939)		2		
2" STEEL (1949)			230'		1-1/2" STEEL VALVE (1946)		1		
2" STEEL (1951)			160'		2" STEEL VALVE (1930)		1		
2" STEEL (1952)			290'		2" STEEL VALVE (1940)		1		
2" STEEL (1954)			1005'		2" STEEL VALVE (1946)		1		
2" STEEL (1955)			400'		2" STEEL VALVE (1948)		1		

TOTAL WORK ORDER QUANTITIES			ESTIMATED	ACTUAL
2" PE (1983)		30'		
2" PE (2001)		10'		
2" PE (2002)		10'		
2" PE (2007)		10'		
2" PE (2012)		25'		
2" PE (2016)		20'		
4" PE (2006)		10'		
3/4" STEEL (1945)		45'		
3/4" STEEL (1946)		105'		
3/4" STEEL (1947)		50'		
3/4" STEEL (1949)		95'		
3/4" STEEL (1950)		190'		
3/4" STEEL (1951)		200'		
1" STEEL (UNK)		55'		
1-1/4" STEEL (1946)		625'		
1-1/4" STEEL (1947)		105'		
1-1/4" STEEL (1948)		100'		
1-1/2" STEEL (1924)		195'		
1-1/2" STEEL (1932)		130'		
1-1/2" STEEL (1935)		760'		
1-1/2" STEEL (1937)		475'		

IDENTIFIED BY NICOR UTILITY INSPECTOR				
WIPE TEST #	WORK ORDER PAGE	TEST LOCATION	PIPE SIZE	PIPE MATERIAL


NOTE:
NICOR UTILITY INSPECTOR TO IDENTIFY TEST LOCATIONS "CUT AND CAP" ON PIPE THAT MEASURES FOUR INCHES. NICOR GAS UNDERSTANDS THAT FIELD PERSONNEL MAY NOT "CUT AND CAPS" OR CONDUCT ADDITIONAL "CUT AND CAP" WILL INCLUDE WIPE TESTS AS PART OF THEIR ROUTINES. RESPONSIBILITY OF NICOR GAS TO ASSURE THAT NECESSARY BY FEDERAL REGULATIONS.

DRAWING - SHEET	DESCRIPTION
WC21101A - 1	LOCATION MAP
WC21101A - 2	SITE PLAN 1 OF 2
WC21101A - 3	SITE PLAN 2 OF 2, TEST DATA AND S
WC21101A - 4	WESTERN AVENUE (56TH STREET TO 5
WC21101A - 5	57TH COURT AND WESTERN AVENUE
WC21101A - 6	WESTERN AVENUE (56TH STREET TO 5
WC21101A - 7	56TH STREET AND BENTLEY AVENUE
WC21101A - 8	VIRGINIA AVENUE (56TH STREET TO 55
WC21101A - 9	BENTLEY AVENUE AND 57TH STREET
WC21101A - 10	BENTLEY AVENUE AND 55TH STREET
WC21101A - 11	WESTERN AVENUE AND HARRIS AVENUE
WC21101A - 12	HARRIS AVENUE AND WALKER AVENUE
WC21101A - 13	DETAIL "B"
WC21101A - 14	WALKER AVENUE AND HUDSON AVENUE
WC21101A - 15	HUDSON AVENUE AND CHURCHILL PL
WC21101A - 16	PROSPECT AVENUE (55TH STREET TO
WC21101A - 17	WESTERN AVENUE AND RIDGE AVENUE
WC21101A - 18	RIDGE AVENUE AND WALKER AVENUE
WC21101A - 19	HARRIS AVENUE, PROSPECT AVENUE A
WC21101A - 20	PARK AVENUE (WALKER AVENUE TO E
WC21101A - 21	HOLMES AVENUE, HARRIS AVENUE AND
WC21101A - 22	DETAIL "E"
WC21101A - 23	HARRIS AVENUE (ALLEN COURT TO AN
WC21101A - 24	STOUGH STREET AND 9TH STREET
WC21101A - 25	JACKSON STREET AND 8TH STREET
WC21101A - 26	QUINCY STREET
WC21101A - 27	QUINCY STREET AND MELIN PARK
WC21101A - 28	QUINCY STREET (7TH STREET TO 8TH
WC21101A - 29	QUINCY STREET AND 6TH STREET
WC21101A - 30	EROSION CONTROL AND ENVIRONMENT

TOTAL PIPE RETIREMENT	ESTIMATED	ACTUAL
2" STEEL VALVE (1949)		
2" STEEL VALVE (1954)		
2" STEEL VALVE (1956)		
4" STEEL VALVE (1959)		

TOTAL PIPE BORING	ESTIMATED	ACTUAL
2" BORING		17
4" BORING		8

TOTAL TRENCH BACKFILL	700
TOTAL ASPHALT AND CONCRETE BREAKS	2600
TOTAL SERVICE TRANSFERS	5

SEALED BY:  STALED ON: 02-19-17

LODGE DIVISION
11-30-19

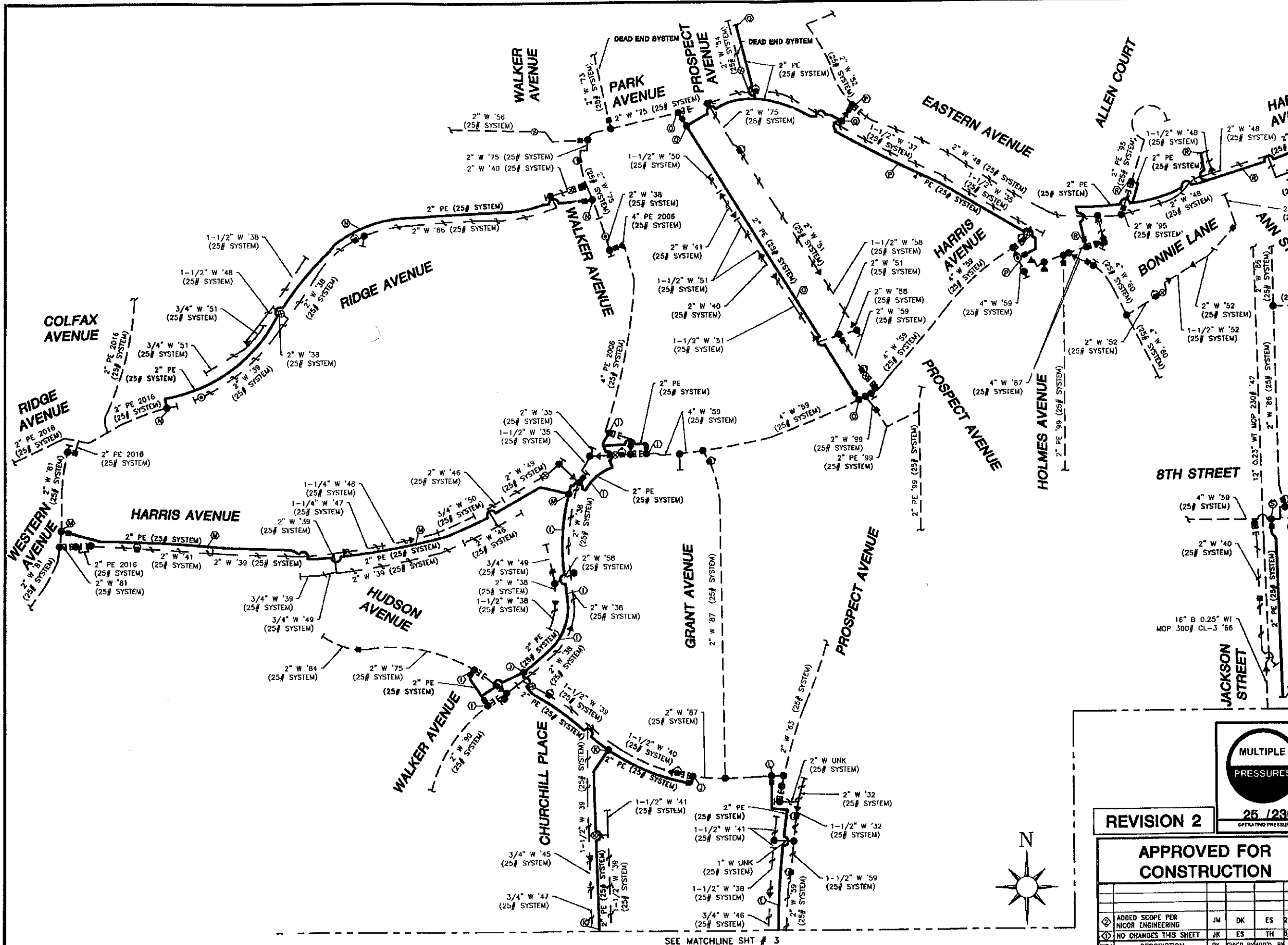
APPROVED FOR CONSTRUCTION	
ADDED PROPOSED WATER UTILITIES AND EXTEND MAIN PER ENGINEERING REQUEST	JM DK ES 2/
UPDATED EXISTING WATER MAIN AND ADDED CONSTRUCTION NOTES PER WESTMONT AND CLARENDON HILLS PERMIT COMMENTS.	JK ES TH 8/
REV. DESCRIPTION	BY CHK'D BY APP'D. BY

Call Before You Dig

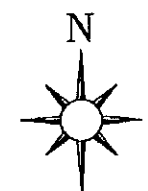


Illinois 1call.com

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 SOL		
STORM WATER		



SEE MATCHLINE SHT # 3



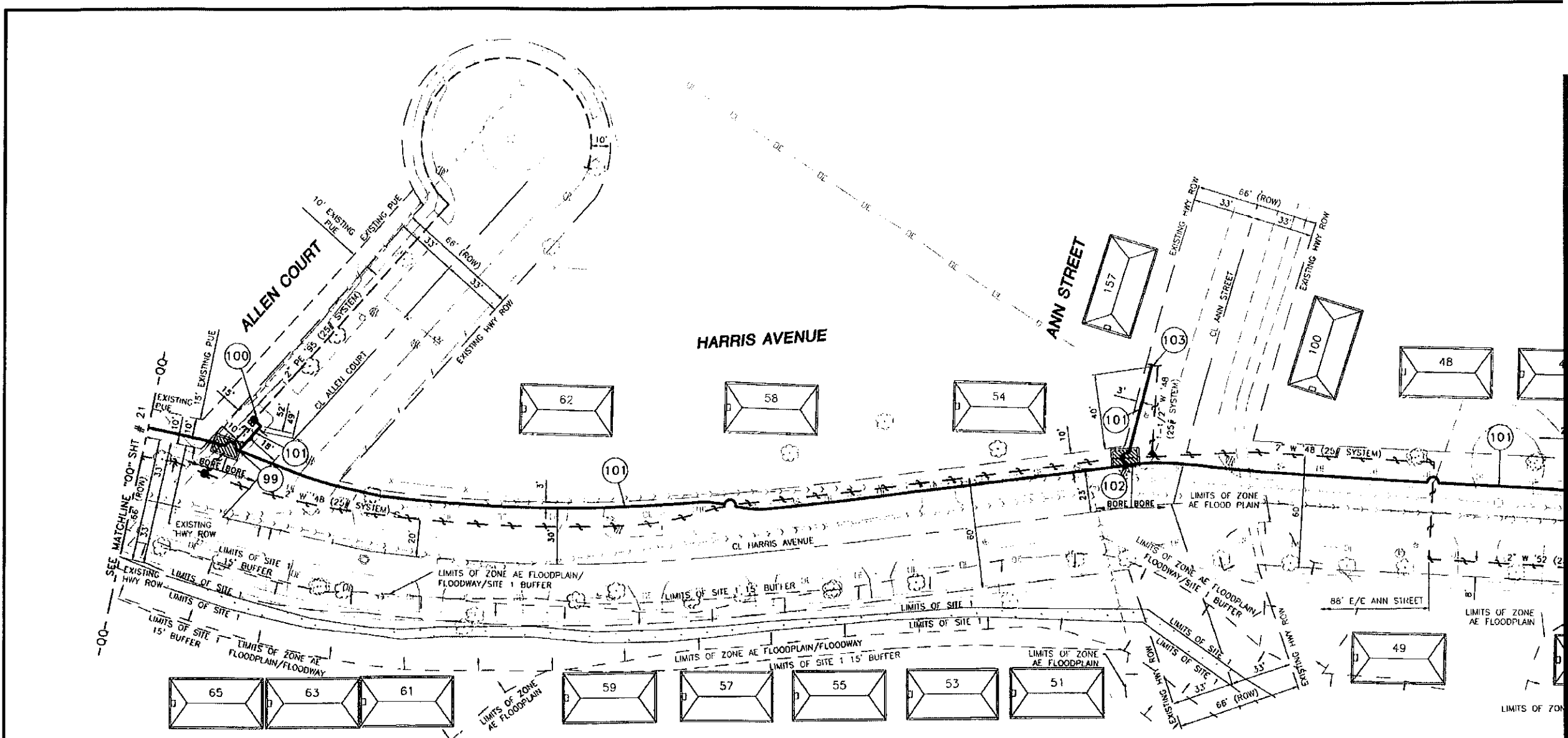
MULTIPLE PRESSURES

REVISION 2

25 / 230

APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY
◆	ADDED SCOPE PER NICOR ENGINEERING	JW	DK	ES
◇	NO CHANGES THIS SHEET	JK	ES	TH



SYMBOL LEGEND

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

WORK ORDER QUANTITIES THIS SHEET

PIPE INSTALLATION THIS SHEET	ESTIMATED	ACTUAL
2" PE PIPE IPS PE SDR 11.0	905'	
PIPE RETIREMENT THIS SHEET	ESTIMATED	ACTUAL
2" PE (1995)	30'	
1-1/2" STEEL (1948)	50'	
2" STEEL (1948)	755'	
2" STEEL (1952)	130'	
PIPE BORING THIS SHEET	ESTIMATED	ACTUAL
2" BORING	825'	
TRENCH BACKFILL THIS SHEET		
ASPHALT AND CONCRETE BREAKS THIS SHEET	50 SQ. FT.	
SERVICE TRANSFERS THIS SHEET		
	18	

- 99** INSTALL
 (1) GCS 721.13* (IN-LINE 3-WAY TEE CONN 2" PE HDR/ LAT BF)
 *INCL: (1) 2" TEE 3-WAY IPS PE SDR 11.0 BF
 (1) GCS 714.5 (WIRE TO WIRE CONNECTION)
- BREAK & REPLACE**
 (1) 5'x10' CONCRETE SIDEWALK
- 100** INSTALL
 (1) GCS 721.03* (HI VOL TEE CONN 2" PE HDR/LATERAL BF)
 *INCL: (1) 2" TEE HI VOL ST IPS PE EF
 (1) 2" ANTI SHEAR SLEEVE PE PIPE PER GCS 702
 (1) GCS 714.5 (WIRE TO WIRE CONNECTION)
- (1) 2" 90° ELL IPS PE SDR 11.0
- CUT & CAP**
 (1) GCS 709.21* (PURGE END 2" MAIN W/ 2"x1" WHIP BF)
 *INCL: (1) 2"x1" REDUCING PURGE END IPS CTS PE
 (1) 1" CAP BE PE CON STAB CTS
 (AS REQ'D) 2" PIPE IPS PE SDR 11.0
 (1) GCS 714.01 (LOCATING WIRE ON PE MAIN END)
- (SEAL RETIRED MAIN PER GCS 849)
- 101** INSTALL
 (905') 2" PE PIPE IPS PE SDR 11.0
 (TEST SECTION "R")
 (25# SYSTEM)
- 102** INSTALL
 (1) GCS 721.13* (IN-LINE 3-WAY TEE CONN 2" PE HDR/ LAT BF)
 *INCL: (1) 2" TEE 3-WAY IPS PE SDR 11.0 BF
 (1) GCS 714.5 (WIRE TO WIRE CONNECTION)

- 103** INSTALL
 (1) GCS 709.21* (PURGE END 2" MAIN W/ 2"x1" WHIP BF)
 *INCL: (1) 2"x1" REDUCING PURGE END IPS CTS PE
 (1) 1" CAP BE PE CON STAB CTS
 (AS REQ'D) 2" PIPE IPS PE SDR 11.0
 (1) GCS 714.01 (LOCATING WIRE ON PE MAIN END)
- (1) GCS 249.5 (BULLET STYLE PIPELINE MARKER)
- EXTEND MAIN TO LAST SERVICE**
- 104** INSTALL
 (1) GCS 709.21* (PURGE END 2" MAIN W/ 2"x1" WHIP BF)
 *INCL: (1) 2"x1" REDUCING PURGE END IPS CTS PE
 (1) 1" CAP BE PE CON STAB CTS
 (AS REQ'D) 2" PIPE IPS PE SDR 11.0
 (1) GCS 714.01 (LOCATING WIRE ON PE MAIN END)
- (1) GCS 249.5 (BULLET STYLE PIPELINE MARKER)
- EXTEND MAIN TO LAST SERVICE**

CONSTRUCTION NOTES:

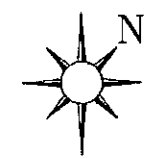
- INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 1 & 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD. IN ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
- LOCATION AND SIZE OF STOCKPILES AND SILT FENCE AROUND STOCKPILES ARE APPROXIMATE. CONTRACTOR TO DETERMINE EXACT LOCATION AND SIZE AT THE TIME OF CONSTRUCTION.
- A MINIMUM 4' OF HORIZONTAL SEPARATION IS TO BE MAINTAINED FROM VILLAGE OF CLARENDON HILLS WATER MAIN.

ENVIRONMENTAL NOTES:

- CONTRACTOR TO DETERMINE LOCATION OF STAGING AREAS WITH STABILIZED CONSTRUCTION ENTRANCES. AT THE TIME OF CONSTRUCTION.
- ALL BORE PITS AND STOCKPILES TO BE ENCLOSED BY SILT FENCE. IF SILT FENCE IS NOT FEASIBLE, SUBSTITUTE WITH ROLLED EROSION CONTROL PRODUCTS (I.E. STRAW WATTLES, ROLLS, EEL LOGS, ETC.).
- STOCKPILES AND OTHER CONSTRUCTION MATERIALS SHALL NOT BE WITHIN WATERBODIES, WETLANDS, BUFFERS, OR FLOODPLAIN.

CORROSION NOTE:

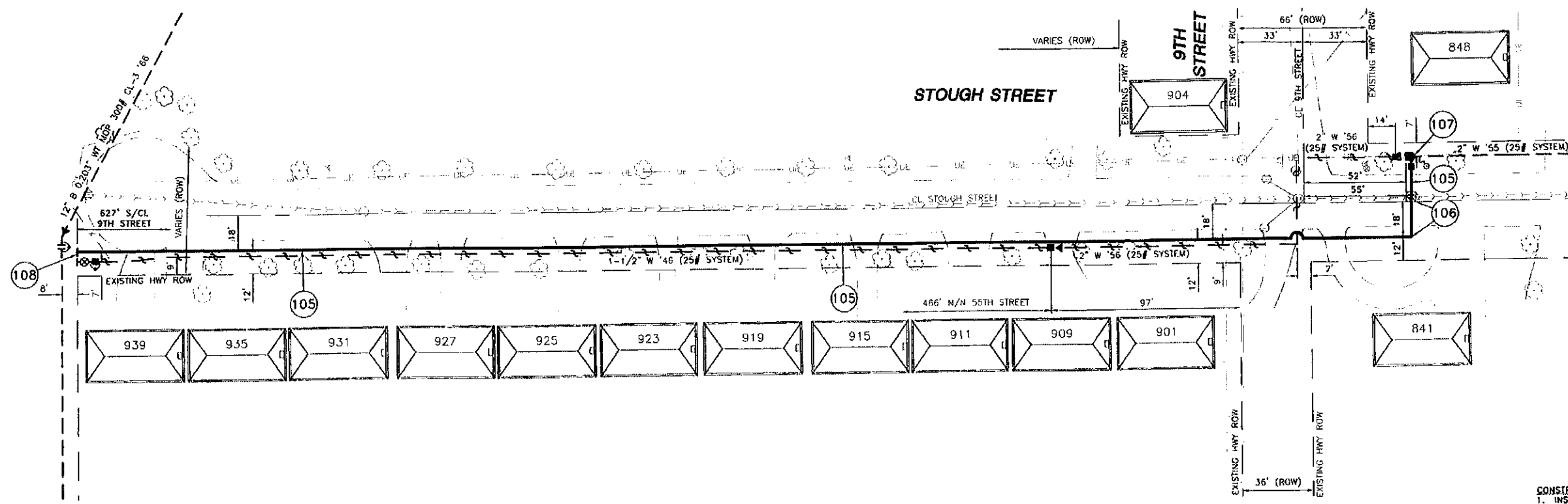
- INSTALL ETC/ETS WITH ANODE LEADS ROUTED TO TERMINAL



REVISION 2

APPROVED FOR CONSTRUCTION

<input checked="" type="checkbox"/>	NO CHANGES THIS SHEET	JM	DK	ES	2/
<input checked="" type="checkbox"/>	ADDED CONSTRUCTION NOTE PER VILLAGE OF CLARENDON HILLS PERMIT COMMENTS.	JK	ES	TH	3/
REV.	DESCRIPTION	BY	CHK'D	APP'D	BY



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- TOO
- USE
- CORROD
- INS

- 105 INSTALL
(725') 2" PIPE IPS PE SDR 11.0
(TEST SECTION "T")
(25# SYSTEM)
- 106 INSTALL
(1) 2" 90° ELL IPS PE SDR 11.0
BREAK & REPLACE
(1) 5'x5' ASPHALT PAVEMENT
- 107 INSTALL
(1) GCS 720.03* (2" & LARGER STL HDR - 2" PE LATERAL BF)
*INCL: (1) 2" TEE LAT IPS PER GCS 210.22 (LATERAL WELD TEE)
(1) 2"x2" FITTING TRANS IPS STL PE SDR 11.0 W/GCS 702
(ANTI SHEAR SLEEVE PE PIPE)
(1) GCS 714.33* (ETS/ETC WIRE CONNECTION FOR STEEL TO PE SYSTEMS)
*INCL: (1) BDX TERMINAL 18" LG 4" OD
(1) 32# ANODE INSTALLED ON EXISTING PIPE
SEE SPECIFICATION FOR LIST OF REQUIRED MATERIALS
CUT & CAP
(1) 2" CAP GALV MI THRD CL 150
(SEAL RETIRED MAIN PER GCS 849)
- 108 INSTALL
(1) GCS 709.21* (PURGE END 2" MAIN W/ 2"x1" WHIP BF)
*INCL: (1) 2"x1" REDUCING PURGE END IPS CTS PE
(1) 1" CAP BE PE CON STAB CTS
(AS REQ'D) 2" PIPE IPS PE SDR 11.0
(1) GCS 714.01 (LOCATING WIRE ON PE MAIN END)

EXTEND MAIN TO LAST SERVICE
CAUTION: DO NOT TIE INTO EXISTING MOP MAIN

SYMBOL LEGEND

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

WORK ORDER QUANTITIES THIS SHEET

	ESTIMATED	ACTUAL
PIPE INSTALLATION THIS SHEET		
2" PIPE IPS PE SDR 11.0	725'	
PIPE RETIREMENT THIS SHEET		
1-1/2" STEEL (1946)	500'	
2" STEEL (1955)	5'	
2" STEEL (1956)	225'	
1-1/2" STEEL VALVE (1946)	1	
PIPE BORING THIS SHEET		
2" BORING	725'	
TRENCH BACKFILL THIS SHEET	15 C.Y.	
ASPHALT AND CONCRETE BREAKS THIS SHEET	25 SQ. FT.	
SERVICE TRANSFERS THIS SHEET	14	

MULTIPLE PRESSURES

25 / 230

OPERATING PRESSURE

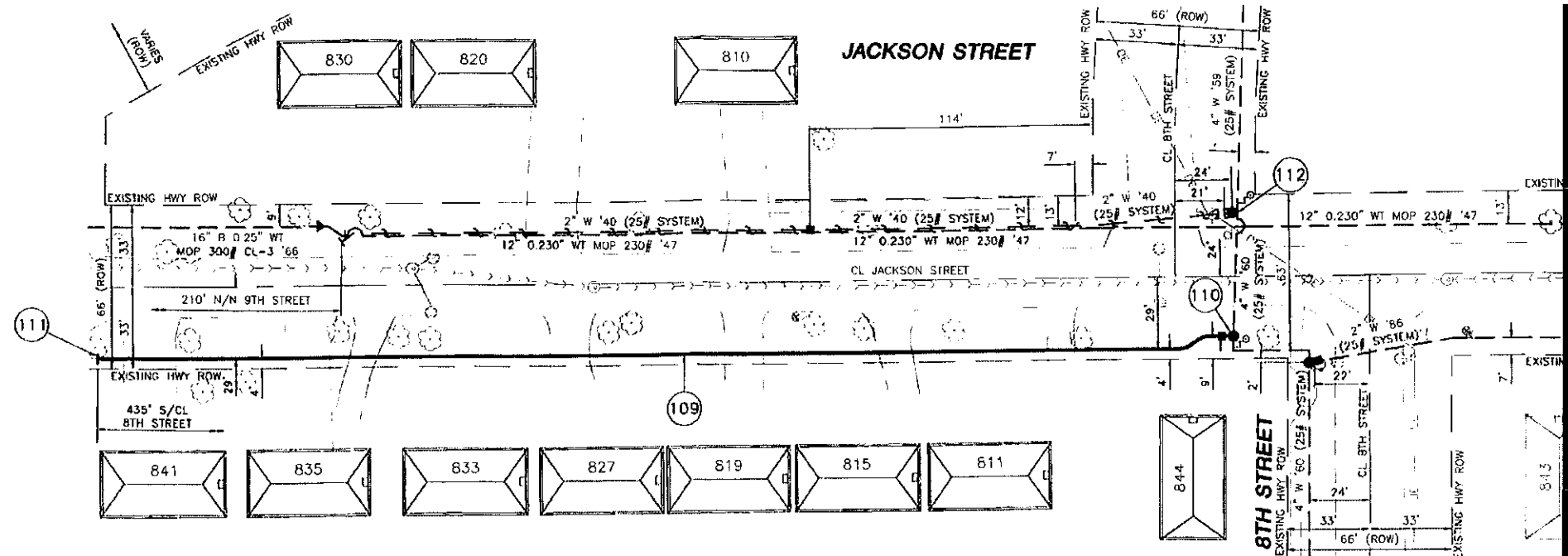
ALL ROW TO BE STAKED AND SURVEYED PRIOR TO CONSTRUCTION

REVISION 2

APPROVED FOR CONSTRUCTION

NO CHANGES THIS SHEET	JM	DK	ES	2/
NO CHANGES THIS SHEET	JK	ES	TH	5/
REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY





- (109) INSTALL**
 (460') 2" PIPE IPS PE SDR 11.0
 (TEST SECTION "S")
 (25# SYSTEM)
- (110) INSTALL**
 (1) GCS 720.03* (2" & LARGER STL HDR - 2" PE LATERAL BF)
 *INCL: (1) 2" TEE LAT IPS PER GCS 210.22 (LATERAL WELD TEE)
 (1) 2"x2" FITTING TRANS IPS STL PE SDR 11.0 W/GCS 702
 (ANTI SHEAR SLEEVE PE PIPE)
 (1) GCS 714.33* (EIS/ETC WIRE CONNECTION FOR STEEL TO PE SYSTEMS)
 *INCL: (1) BOX TERMINAL 18" LG 4" OD
 (1) 32# ANODE INSTALLED ON EXISTING PIPE
 SEE SPECIFICATION FOR LIST OF REQUIRED MATERIALS
- (111) INSTALL**
 (1) GCS 709.21* (PURGE END 2" MAIN W/ 2"x1" WHIP BF)
 *INCL: (1) 2"x1" REDUCING PURGE END IPS CTS PE
 (1) 1" CAP BE PE CON STAB CTS
 (AS REQ'D) 2" PIPE IPS PE SDR 11.0
 (1) GCS 714.01 (LOCATING WIRE ON PE MAIN END)
 (1) GCS 249.5 (BULLET STYLE PIPELINE MARKER)

EXTEND MAIN TO LAST SERVICE
- (112) INSTALL**
 (1) GCS 210.93* (2" STOPPER NIPPLE ASSEMBLY)
 *INCL: (1) 2" STOPPER NIPPLE (PER GMS 343.05)
 (1) GCS 513.04 (32#) (ANODE INSTALLED ON EXISTING PIPE W/O
 TEST CONNECTION)

CUT & CAP
 (1) 2" CAP GALV MI THRD CL 150
 (SEAL RETIRED MAIN PER GCS 849)

SYMBOL LEGEND

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

WORK ORDER QUANTITIES THIS SHEET

	ESTIMATED	ACTUAL
PIPE INSTALLATION THIS SHEET		
2" PIPE IPS PE SDR 11.0	460'	
PIPE RETIREMENT THIS SHEET		
2" STEEL (1940)	360'	
PIPE BORING THIS SHEET		
2" BORING	435'	
TRENCH BACKFILL THIS SHEET	20 C.Y.	
ASPHALT AND CONCRETE BREAKS THIS SHEET	0 SQ. FT.	
SERVICE TRANSFERS THIS SHEET	11	

MULTIPLE PRESSURES

25 / 230

OPERATING PRESSURE

ALL ROW TO BE STAKED AND SURVEYED PRIOR TO CONSTRUCTION

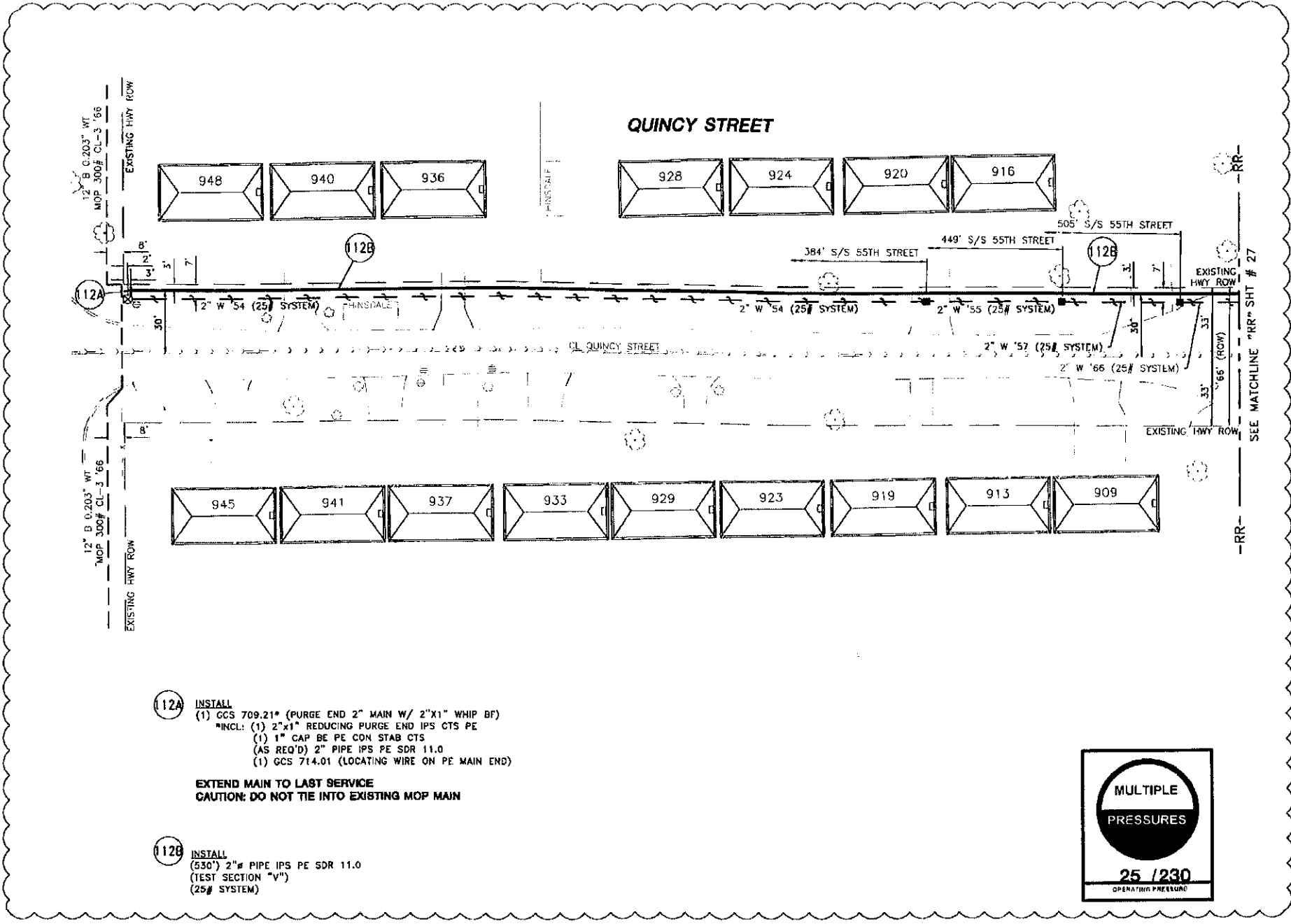
REVISION 2

APPROVED FOR CONSTRUCTION

NO CHANGES THIS SHEET	JM	DK	ES	27
NO CHANGES THIS SHEET	JK	ES	TH	27
REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY



CONSTR
 1. INST FOR MAR CRO ARE LOC STO EXA
ENVIRON
 1. CON STA CON
 2. ALL FEN ROL
 3. WHE TOC USE
CORROS
 1. INST



112A INSTALL
 (1) GCS 709.21* (PURGE END 2" MAIN W/ 2"x1" WHIP BF)
 *INCL: (1) 2"x1" REDUCING PURGE END IPS CTS PE
 (1) 1" CAP BE PE CON STAB CTS
 (AS REQ'D) 2" PIPE IPS PE SDR 11.0
 (1) GCS 714.01 (LOCATING WIRE ON PE MAIN END)

EXTEND MAIN TO LAST SERVICE
 CAUTION: DO NOT TIE INTO EXISTING MOP MAIN

112B INSTALL
 (530') 2" PIPE IPS PE SDR 11.0
 (TEST SECTION "V")
 (25# SYSTEM)

MULTIPLE
 PRESSURES
 25 / 230
 OPERATING PRESSURE

- CONSTR
1. INST FOR MAR CRO ARE
 2. LOC STO EXA
- ENVIRON
1. CON STA CON
 2. ALL FEN ROL
 3. WHE TOO USE
- COBROS
1. INST

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
2" PIPE IPS PE SDR 11.0	530'	
PIPE RETIREMENT THIS SHEET	ESTIMATED	ACTUAL
2" STEEL (1954)	385'	
2" STEEL (1955)	65'	
2" STEEL (1957)	60'	
2" STEEL (1966)	30'	
2" STEEL VALVE (1954)	1	
PIPE BORING THIS SHEET	ESTIMATED	ACTUAL
2" BORING	530'	
TRENCH BACKFILL THIS SHEET	10 C.Y.	
ASPHALT AND CONCRETE BREAKS THIS SHEET	0 SQ. FT.	
SERVICE TRANSFERS THIS SHEET	16	

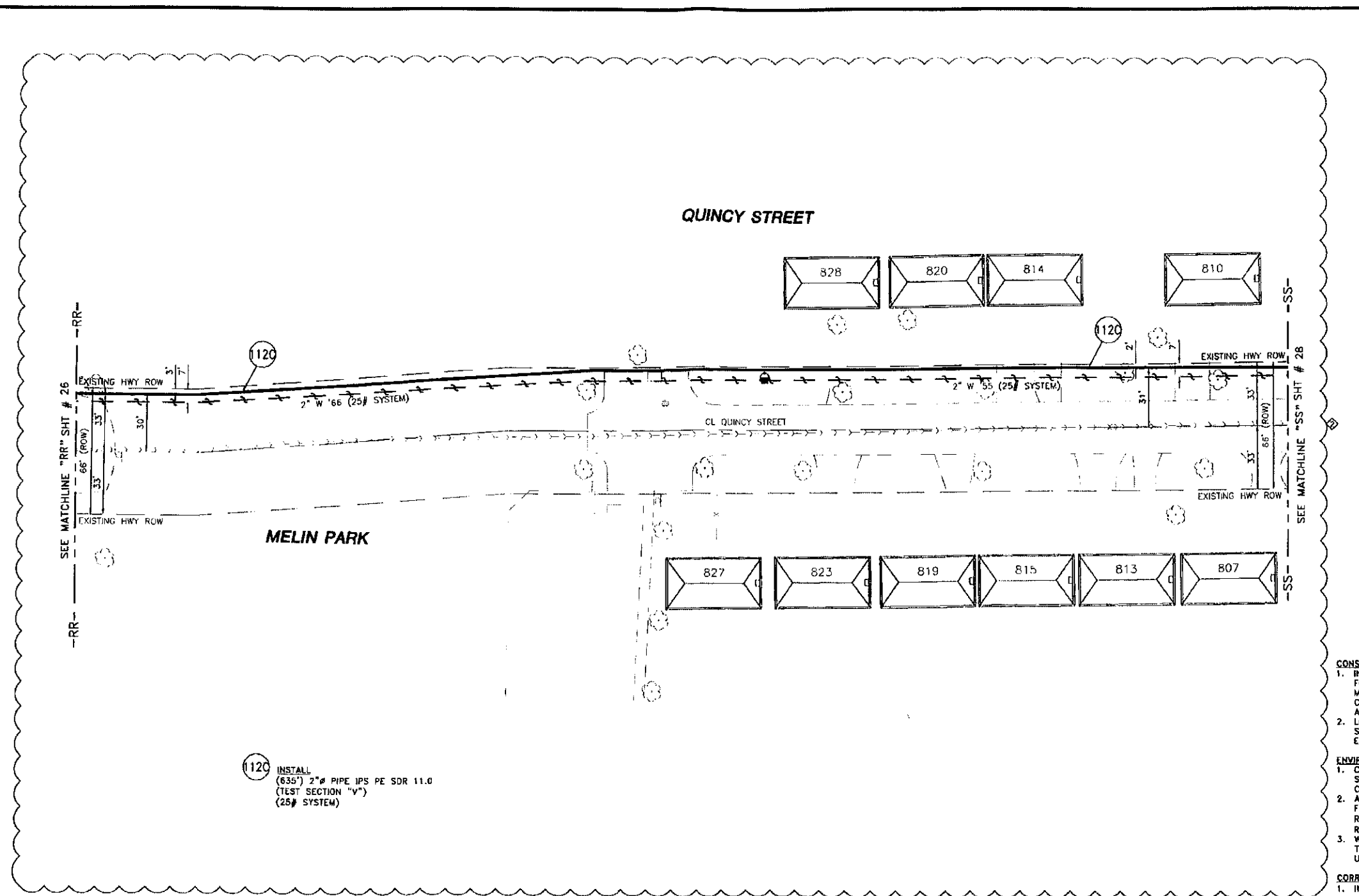
ALL ROW TO BE STAKED AND SURVEYED PRIOR TO CONSTRUCTION

REVISION 2

APPROVED FOR CONSTRUCTION



REV.	DESCRIPTION	BY	CHKD BY	APP'D BY	DATE
1	ADDED SCOPE PER NICOR ENGINEERING	JM	DK	ES	2/
2	NO CHANGES THIS SHEET	JK	ES	TH	5/



1120 INSTALL
 (635') 2" PIPE IPS PE SDR 11.0
 (TEST SECTION "V")
 (25# SYSTEM)

- CONSTR
1. INST FOR MAR CRO ARE
 2. LOC STO EXA
- ENVIRON
1. CON STA CON
 2. ALL FEN ROL ROL
 3. WHE TOO USE
- CORROS
1. INST

SYMBOL LEGEND

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

WORK ORDER QUANTITIES THIS SHEET

	ESTIMATED	ACTUAL
PIPE INSTALLATION THIS SHEET		
2" PIPE IPS PE SDR 11.0	635'	
PIPE RETIREMENT THIS SHEET		
2" STEEL (1955)	275'	
2" STEEL (1966)	360'	
PIPE BORING THIS SHEET		
2" BORING	635'	
TRENCH BACKFILL THIS SHEET	5 C.Y.	
ASPHALT AND CONCRETE BREAKS THIS SHEET	0 SQ. FT.	
SERVICE TRANSFERS THIS SHEET	10	

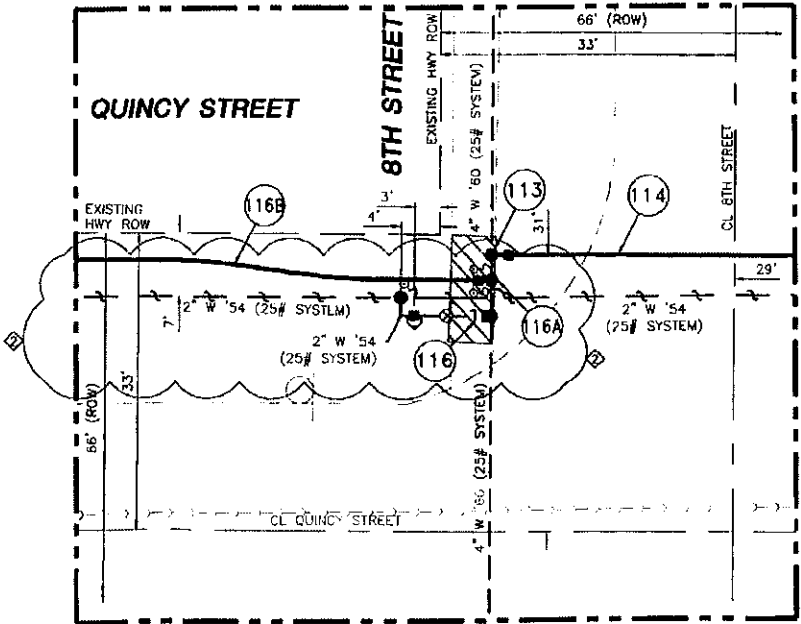
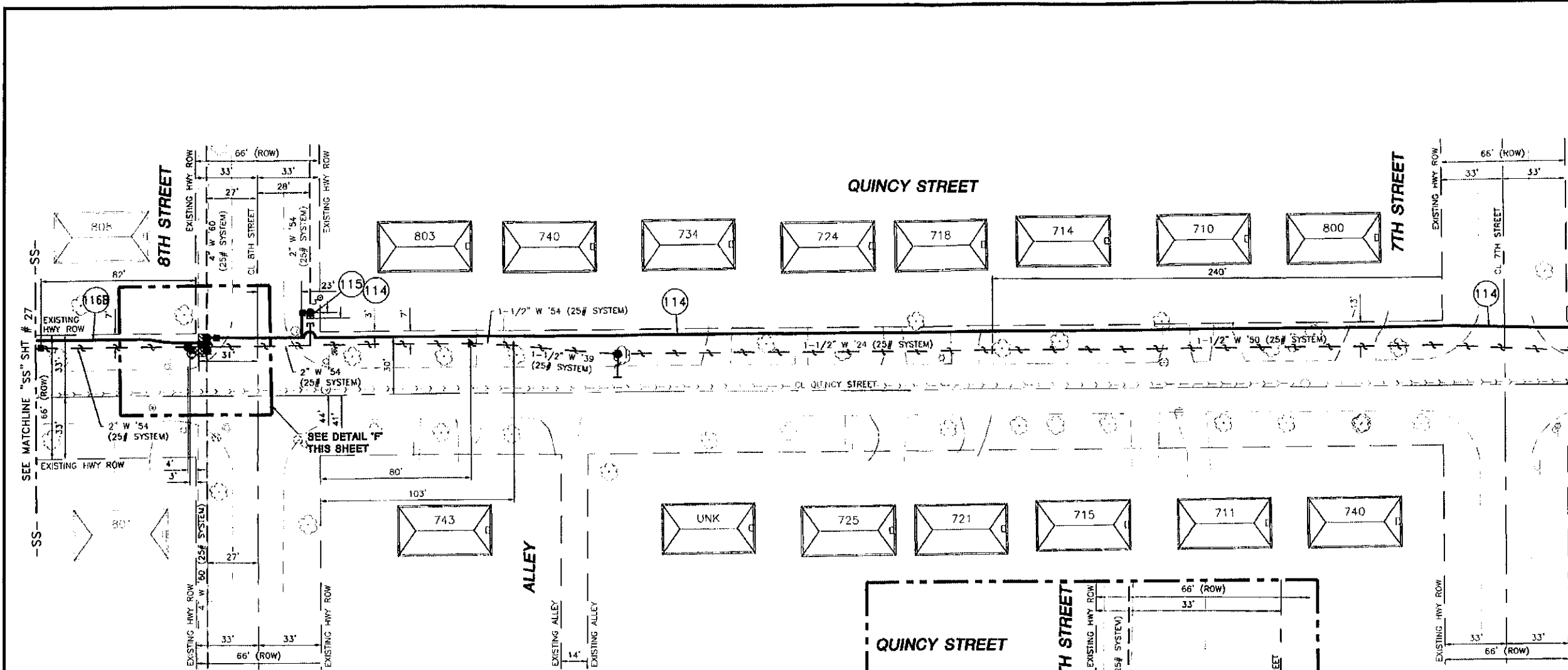
ALL ROW TO BE STAKED AND SURVEYED PRIOR TO CONSTRUCTION

REVISION 2

APPROVED FOR CONSTRUCTION

ADDED SCOPE PER NICOR ENGINEERING NO CHANGES THIS SHEET REV. DESCRIPTION	JM DK ES 2/ JK ES TH 5/	BY CHK'D BY APP'D BY
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- 113** INSTALL
 (1) GCS 720.03* (2" & LARGER STL HDR - 2" PE LATERAL BF)
 *INCL: (1) 2" TEE LAT IPS PER GCS 210.22 (LATERAL WELD TEE)
 (1) 2"x2" FITTING TRANS IPS STL PE SDR 11.0 W/GCS 702
 (ANTI SHEAR SLEEVE PE PIPE)
 (1) GCS 714.33* (ETS/ETC WIRE CONNECTION FOR STEEL TO PE SYSTEMS)
 *INCL: (1) BOX TERMINAL 18" LG 4" OD
 (1) 32# ANODE INSTALLED ON EXISTING PIPE
 SEE SPECIFICATION FOR LIST OF REQUIRED MATERIALS
- BREAK & REPLACE**
 (1) 5'x10' CONCRETE SIDEWALK

- 114** INSTALL
 (870') 2" PIPE IPS PE SDR 11.0
 (TEST SECTION "U")
 (25# SYSTEM)
- 115** INSTALL
 (1) GCS 720.03* (2" & LARGER STL HDR - 2" PE LATERAL BF)
 *INCL: (1) 2" TEE LAT IPS PER GCS 210.22 (LATERAL WELD TEE)
 (1) 2"x2" FITTING TRANS IPS STL PE SDR 11.0 W/GCS 702
 (ANTI SHEAR SLEEVE PE PIPE)
 (1) GCS 714.33* (ETS/ETC WIRE CONNECTION FOR STEEL TO PE SYSTEMS)
 *INCL: (1) BOX TERMINAL 18" LG 4" OD
 (1) 32# ANODE INSTALLED ON EXISTING PIPE
 SEE SPECIFICATION FOR LIST OF REQUIRED MATERIALS
- CUT & CAP**
 (1) 2" 90° ELL IPS PE SDR 11.0
 (1) 2" CAP GALV MI THRD CL 150
 (SEAL RETIRED MAIN PER GCS 849)

- 116** INSTALL
 (1) GCS 513.04 (32#) ANODE INSTALLED ON EXISTING PIPE W/O
 TEST CONNECTION)
- CUT & CAP**
 (1) 2" CAP GALV MI THRD CL 150
 (SEAL RETIRED MAIN PER GCS 849)
- CUT AND CAP NORTH OF EXISTING INSULATOR AND VALVE TO RETIRE THEM**

- 116A** INSTALL
 (1) GCS 720.03* (2" & LARGER STL HDR - 2" PE LATERAL BF)
 *INCL: (1) 2" TEE LAT IPS PER GCS 210.22 (LATERAL WELD TEE)
 (1) 2"x2" FITTING TRANS IPS STL PE SDR 11.0 W/GCS 702
 (ANTI SHEAR SLEEVE PE PIPE)
 (1) GCS 714.33* (ETS/ETC WIRE CONNECTION FOR STEEL TO PE SYSTEMS)
 *INCL: (1) BOX TERMINAL 18" LG 4" OD
 (1) 32# ANODE INSTALLED ON EXISTING PIPE
 SEE SPECIFICATION FOR LIST OF REQUIRED MATERIALS

- 116B** INSTALL
 (90') 2" PIPE IPS PE SDR 11.0
 (TEST SECTION "V")
 (25# SYSTEM)

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
2" PIPE IPS PE SDR 11.0	960'	

PIPE RETIREMENT THIS SHEET	ESTIMATED	ACTUAL
1-1/2" STEEL (1924)	195'	
1-1/2" STEEL (1939)	55'	
1-1/2" STEEL (1950)	380'	
1-1/2" STEEL (1951)	95'	
1-1/2" STEEL (1954)	25'	
2" STEEL (1951)	90'	
2" STEEL (1954)	255'	
2" STEEL VALVE (1954)	1	

PIPE BORING THIS SHEET	ESTIMATED	ACTUAL
2" BORING	935'	

TRENCH BACKFILL THIS SHEET	ESTIMATED	ACTUAL
25 C.Y.		

ASPHALT AND CONCRETE BREAKS THIS SHEET	ESTIMATED	ACTUAL
50 SQ. FT.		

SERVICE TRANSFERS THIS SHEET	ESTIMATED	ACTUAL
19		

- CONSTRUCTION NOTES:**
- INSTALL PIPELINE MARKERS PER GCS 249. SEE SPECIFICATION FOR ALL REQUIREMENTS. FOR CLASS 2 LOCATIONS, MARKERS ARE REQUIRED OVER EACH BURIED MAIN AT EACH CROSSING OF A PUBLIC ROAD. ADDITION, PIPELINE MARKERS ARE REQUIRED AT ALL RAILROAD AND WATERWAY CROSSINGS.
 - LOCATION AND SIZE OF STOCKPILES AND SILT FENCE AROUND STOCKPILES ARE APPROXIMATE. CONTRACTOR DETERMINE EXACT LOCATION AND SIZE AT THE TIME OF CONSTRUCTION.

- ENVIRONMENTAL NOTES:**
- CONTRACTOR TO DETERMINE LOCATION OF STAGING AREAS WITH STABILIZED CONSTRUCTION ENTRANCES THE TIME OF CONSTRUCTION.
 - ALL BORE PITS AND STOCKPILES TO BE ENCLOSED SILT FENCE. IF SILT FENCE IS NOT FEASIBLE, SUBSTITUTE WITH ROLLED EROSION CONTROL PRODUCT (I.E. STRAW WATTLES, COIR ROLLS, EEL LOGS, ETC)
 - WHEN PRUNING ELM OR ASH TREES, ALL PRUNING CUTTING TOOLS SHALL BE CLEANED WITH RUBBING ALCOHOL BETWEEN USES TO PREVENT THE SPREAD OF DISEASE OR FUNGUS.

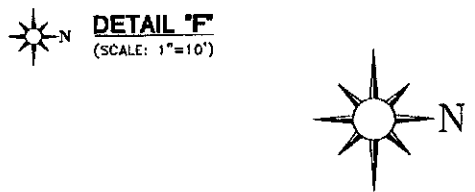
- CORROSION NOTE:**
- INSTALL ETC/ETS WITH ANODE LEADS ROUTED TO TERMINAL BOX.

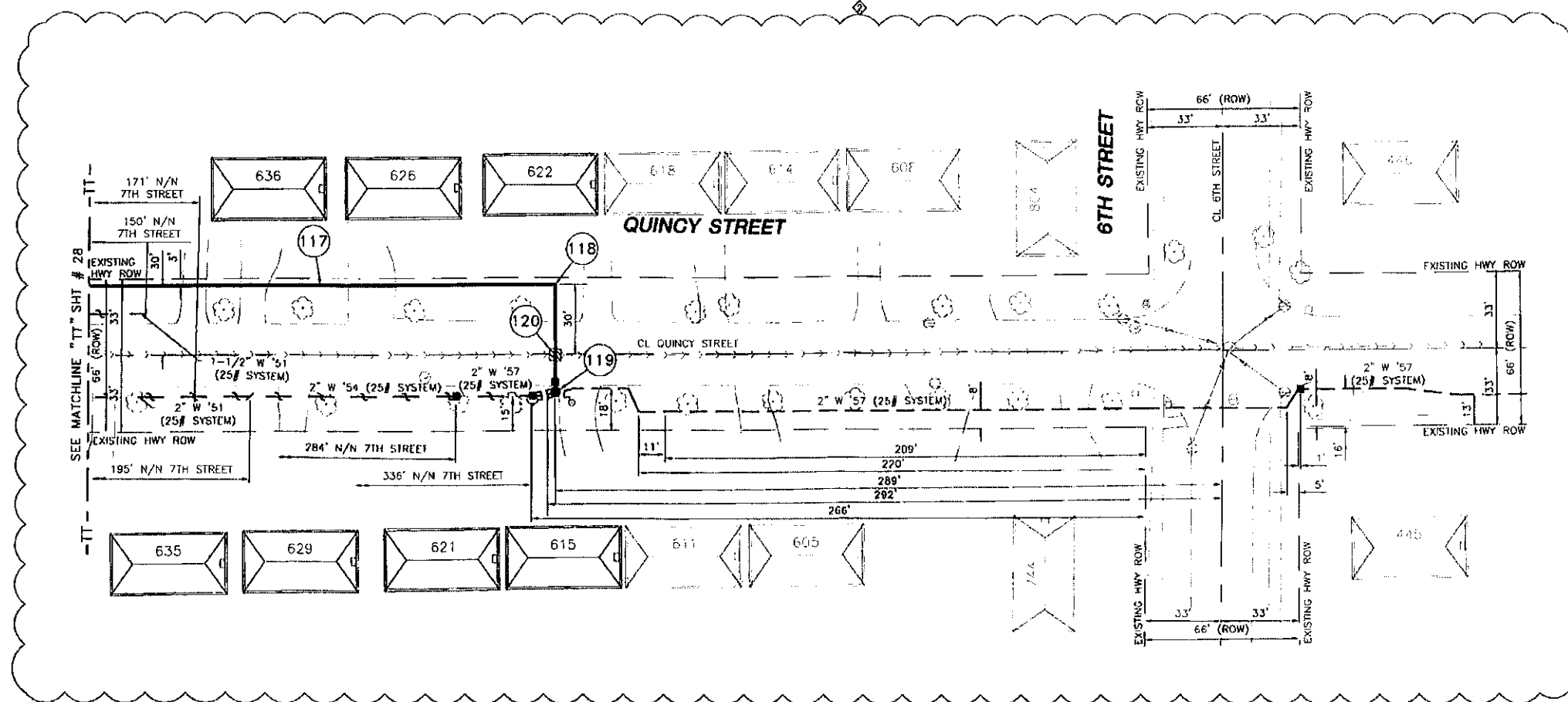
ALL ROW TO BE STAKED AND SURVEYED PRIOR TO CONSTRUCTION

REVISION 2

APPROVED FOR CONSTRUCTION

REV.	DESCRIPTION	BY	CHK'D BY	APP'D. BY
1	ADDED SCOPE PER NICOR ENGINEERING	JM	DK	ES
2	NO CHANGES THIS SHEET	JK	ES	TH





- 117** INSTALL
 (250') 2" PIPE IPS PE SDR 11.0
 (TEST SECTION "U")
 (25# SYSTEM)
- 118** INSTALL
 (1) 2" 90° ELL IPS PE SDR 11.0
- 119** INSTALL
 (1) GCS 720.03* (2" & LARGER STL HDR - 2" PE LATERAL BF)
 *INCL: (1) 2" TEE LAT IPS PER GCS 210.22 (LATERAL WELD TEE)
 (1) 2"x2" FITTING TRANS IPS STL PE SDR 11.0 W/GCS 702
 (ANTI SHEAR SLEEVE PE PIPE)
 (1) GCS 714.33* (ETS/ETC WIRE CONNECTION FOR STEEL TO PE SYSTEMS)
 *INCL: (1) BOX TERMINAL 18" LG 4" OD
 (1) 32# ANODE INSTALLED ON EXISTING PIPE
 SEE SPECIFICATION FOR LIST OF REQUIRED MATERIALS

CUT & GAP
 (1) 2" CAP GALV MI THRD CL 150
 (SEAL RETIRED MAIN PER GCS 849)
CUT AND GAP NORTH OF EXISTING INSULATOR TO RETIRE IT

120 BREAK & REPLACE
 (1) 5'x5' ASPHALT PAVEMENT

- CONSTR**
1. INST FOR MAR CRO ARE STO EXA
- ENVIRO**
1. CON STA CON
 2. ALL FEN ROL ROL
 3. WHE TOO USE
- CORROS**
1. INST

SYMBOL LEGEND

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

WORK ORDER QUANTITIES THIS SHEET

	ESTIMATED	ACTUAL
PIPE INSTALLATION THIS SHEET		
2" PIPE IPS PE SDR 11.0	250'	
PIPE RETIREMENT THIS SHEET		
1-1/2" STEEL (1951)	25'	
2" STEEL (1951)	70'	
2" STEEL (1954)	90'	
2" STEEL (1957)	45'	
PIPE BORING THIS SHEET		
2" BORING	250'	
TRENCH BACKFILL THIS SHEET	15 C.Y.	
ASPHALT AND CONCRETE BREAKS THIS SHEET	25 SQ. FT.	
SERVICE TRANSFERS THIS SHEET	7	

ALL ROW TO BE STAKED AND SURVEYED PRIOR TO CONSTRUCTION

REVISION 2

APPROVED FOR CONSTRUCTION

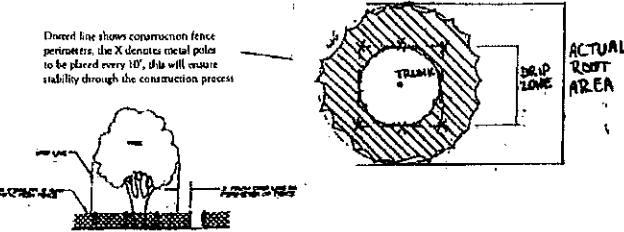


REV.	DESCRIPTION	BY	CHK'D BY	APP'D BY	DATE
1	ADDED EXISTING UTILITIES	JM	DK	ES	2/
2	NO CHANGES THIS SHEET	JK	ES	TH	5/



PRIVATE PROPERTY TREES

Roots of trees extend far beyond the tree's canopy. To protect these roots, place construction fencing around the DRIPZONE (see diagram) of the tree, OR as far out from the trunk as possible. THE VILLAGE REQUIRES TREES WHICH ARE TO BE 'SAVED' ON CONSTRUCTION SITES TO BE PROTECTED TO THE DRIPZONE OR TO A MINIMUM DISTANCE OF 15 FEET FROM THE TRUNK OF THE TREE PRIOR TO ANY CONSTRUCTION ACTIVITY, INCLUDING DEMOLITION, UNLESS OTHERWISE AUTHORIZED BY THE VILLAGE. The impact of construction on the tree will largely be determined by the amount of space given for the tree protection area. The greater the space, the better chance for survival of the tree after construction.



CONSTRUCTION DANGERS TO BE AWARE OF

COMPACTION: Minimize this type of damage by fencing trees to the DRIPZONE or the minimum required 15 foot protection zone. Roots are located in the top 6 - 12" of soil. They are the vital support structure and water/nutrient provider for the tree. Large equipment (bobcats, loaders, concrete trucks, etc.) if driven over this area, will reduce the pore space in the soil. There will be less water and oxygen available in the soil because of this activity. This will cause the tree to "starve" since its roots will be damaged and not able to access the water and nutrients they need.

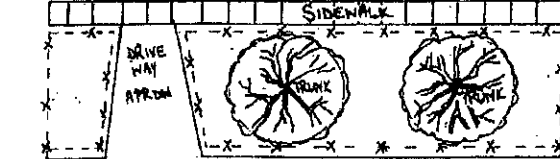
TRUNK DAMAGE/BROKEN BRANCHES: Prevent this damage by pruning low hanging branches on construction sites to avoid breaking and ripping them with trucks and other construction equipment. If there are low hanging branches on parkway trees contact the Street Division at (630) 981-6271. We will have them pruned as soon as possible. Installation and maintaining tree protection fencing will keep skidders, bobcats, etc. from damaging the trunk. Wounds caused in this manner leave sources of infection for pathogens. This will cause the tree to be stressed and susceptible to disease and death.

TRENCHING: Sewer, water and other utilities are placed underground. The installation of these lines within the dripzone of the tree via trenching causes tremendous damage to the root system of the tree. The machines will tear and sever a large portion of the root zone responsible for water and nutrient uptake. This will provide a source of infection for fungus and other pathogens leading once again to tree stress, disease problems, weak limbs and death. **CONTRACTORS MUST USE TREE AUGERING SPECS PROVIDED BY THE MUNICIPAL FORESTERS OF NORTHEAST ILLINOIS.**

Tree Preservation Guidelines

PARKWAY TREES

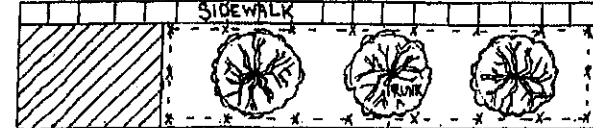
ALL PARKWAYS MUST BE COMPLETELY FENCED OFF PRIOR TO THE START OF ANY CONSTRUCTION PROCESSES, INCLUDING DEMOLITION, WHETHER THE PARKWAY CONTAINS TREES OR NOT. Generally the root system of a parkway tree only extends from the trunk to the end of the parkway on the street side of the tree. The roots on the sidewalk side can run underneath the walkway and onto private property. It is very important to fence off the entire parkway to minimize the damage to the root system of these trees and reduce soil compaction, which can have adverse effects on future tree plantings within the parkway. Please refer to the diagram for the proper installation of parkway tree fencing.



Dotted line shows construction fence perimeter, the X denotes metal poles to be placed every 10'. This will ensure stability through the construction process.

Parkway Fencing Without Driveway

Certain sites do not have access to the front of the property for various types of construction activity. If the property DOES NOT have a driveway for access the Village will allow an access point to the front of the property across the parkway. This access point must be properly constructed as per the Building and Zoning Division. The general contractor or owner must fence off the perimeter of the parkway up to the designated access point and adjacent property line. This must be MAINTAINED for the duration of the construction activity.



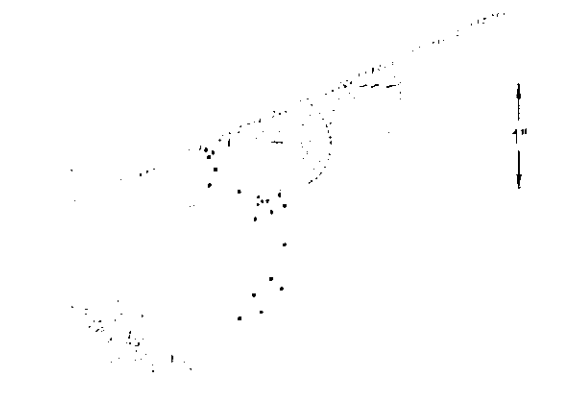
Show construction access point. -X- denotes fencing.

DUPAGE COUNTY EROSION CONTROL NOTES:

- SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE APPROPRIATE WITH REGARD TO THE AMOUNT OF TRIBUTARY DRAINAGE AREA AS FOLLOWS:
 - DISTURBED AREAS DRAINING LESS THAN 1 ACRE SHALL, AT A MINIMUM, BE PROTECTED BY A FILTER BARRIER OR EQUIVALENT TO CONTROL ALL RUNOFF LEAVING THE SITE. THE USE OF STRAW BALES FOR THIS PURPOSE IS PROHIBITED.
 - DISTURBED AREAS DRAINING MORE THAN 1 BUT FEWER THAN 5 ACRES SHALL, AT A MINIMUM, BE PROTECTED BY A SEDIMENT TRAP OR EQUIVALENT CONTROL MEASURE.
 - DISTURBED AREAS DRAINING MORE THAN 5 ACRES SHALL, AT A MINIMUM, BE PROTECTED BY A SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURE.
- PUMPING SEDIMENT-LADEN WATER INTO ANY STORMWATER FACILITY EITHER DIRECTLY OR INDIRECTLY WITHOUT FILTRATION IS PROHIBITED. WATER REMOVED FROM TRAPS, BASINS AND OTHER WATER HOLDING DEPRESSIONS OR EXCAVATIONS MUST FIRST PASS THROUGH A SEDIMENT CONTROL AND/OR FILTRATION DEVICE. WHEN DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION.
- ALL DISCHARGES TO AN UNDISTURBED AREA, STABILIZED AREA OR WATERCOURSE SHALL BE DESIGNED AT A NON-EROSIVE VELOCITY CORRESPONDING TO THE SOIL AND VEGETATIVE COVER OF THE UNDISTURBED AREA.
- ALL STORM DRAIN INLETS SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE WHEN THE AREA TRIBUTARY TO AN INLET IS DISTURBED.
- SILT FENCES CAN BE USED TO INTERCEPT SHEET FLOW ONLY. UNREINFORCED SILT FENCES CANNOT BE USED AS VELOCITY CHECKS IN DITCHES OR SWALES NOR CAN THEY BE USED WHERE THEY WILL INTERCEPT CONCENTRATED FLOWS.
- REINFORCED SILT FENCES CAN BE USED TO INTERCEPT SEDIMENT-LADEN WATER FROM DISTURBED AREAS LESS THAN 1 ACRE.
- ALL SPECIAL MANAGEMENT AREAS AND WATERS OF DUPAGE SHALL, AT A MINIMUM, HAVE A DUAL SILT FENCE BARRIER OF PROTECTION. EXCEPT AS NOTED ON PLAN WHERE CONSTRUCTION FENCE WILL BE USED TO CONFINE PERSONNEL AND EQUIPMENT TO AN ESTABLISHED GRAVEL ACCESS ROAD.
- ALL TRENCHES, HOLES OR OTHER EXCAVATIONS REQUIRED FOR UTILITY INSTALLATION SHOULD BE BACK-FILLED, AND STABILIZED AT THE END OF EACH WORKING DAY. NO EXCAVATION SHOULD BE OPENED MORE THAN WHAT CAN BE STABILIZED BY THE END OF THE SAME DAY. IF AN EXCAVATION MUST BE LEFT UN-STABILIZED OR OPENED OVERNIGHT, SOIL EROSION AND SAFETY PROTECTION MEASURES SHALL BE INSTALLED.
- THE SURFACE OF STRIPPED OR DISTURBED AREAS SHALL BE PERMANENTLY OR TEMPORARILY STABILIZED WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED OR WHEN LEFT IDLE FOR MORE THAN 14 DAYS. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT SOIL EROSION CONTROL MEASURES HAVE BEEN ADEQUATELY ESTABLISHED.
- STOCKPILES OF SOIL OR ANY OTHER BUILDING MATERIALS SHALL NOT BE LOCATED IN SPECIAL MANAGEMENT AREAS.
- IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, THEN EROSION AND SEDIMENT CONTROL SHALL BE PROVIDED FOR SUCH STOCKPILE.
- ALL WASTE GENERATED AS A RESULT OF SITE DEVELOPMENT (INCLUDING DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER, SANITARY WASTE OR ANY OTHER WASTE) SHALL BE PROPERLY DISPOSED OF AND BE PREVENTED FROM BEING CARRIED OFF THE SITE BY EITHER WIND OR WATER.
- GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES AS NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED OR DEPOSITED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED IMMEDIATELY OR AS WARRANTED AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30-DAYS AFTER FINAL STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF AND THE AREA PERMANENTLY STABILIZED.

REASON:
ROOTS WITH SHARPLY CUT ENDS WILL QUICKLY PRODUCE A FLUSH OF NEW ROOTS, HELPING THE TREE TO RECOVER FROM ITS INJURY, A CRUSHED OR TORN ROOT LEADS TO DECAY AND FEW NEW ROOTS

PROCEDURE:
WHEN TUNNELING OR AVOIDING ROOTS IS NOT POSSIBLE, TRENCH CAREFULLY BY HAND OR MACHINE NEAR TREES, SAWING ROOTS OVER 1" IN DIAMETER. MAKE THE CUT FLUSH WITH THE SIDE OF THE TRENCH CLOSEST TO THE TREE. NO NEED TO PAINT OR TREAT THE ENDS



WHEN ROOTS 1" OR LARGER ARE ACCIDENTALLY BROKEN, DIG OUT ENOUGH OF THE TRENCH SIDE TO SAW THROUGH AN UNDAMAGED PORTION OF THE ROOT.

ROOT PRUNING

Parkway Tree Auguring Specs
Per Municipal Foresters of Northeast Illinois

General Subject: Construction around parkway trees

Specific Subject: Auguring Specs for tree roots

Purpose: To establish and use standard specs for auguring, instead of trenching, in the root zone of parkway trees.

Specification: The parkway tree root zone shall be protected in the manner described hereafter:

TREE DIAMETER (DBH)

- 0-2 inches DBH: Augur 1' from face of tree in all directions if trench located in this radius.
- 3-4 inches DBH: Augur 2' from face of tree in all directions if trench located in this radius.
- 5-8 inches DBH: Augur 5' from face of tree in all directions if trench located in this radius.
- 10-14 inches DBH: Augur 10' from face of tree in all directions if trench located in this radius.
- 15-18 inches DBH: Augur 12' from face of tree in all directions if trench located in this radius.
- 19+ inches DBH: Augur 16' from face of tree in all directions if trench is located in this radius.

Refer to drawing on reverse side.

DBH: Diameter at Breast Height, measured 4.5' above ground.

The minimum depth of auger within root zone, as described above, shall be 24" below soil surface. No trenching within the root zone of the tree as described, shall be permitted.

REVISION 2

APPROVED FOR CONSTRUCTION

NO CHANGES THIS SHEET	JM	DK	ES	2/
NO CHANGES THIS SHEET	JK	ES	TH	5/
REV. DESCRIPTION	BY	CHK'D BY	APP'D. BY	