

21 WDC TOR 201 - BP #4 PSE 01 - 16

LIST OF STANDARDS

000001-08
200001-07
064001-02
701301-04
701501-06
701801-08

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
TEMPORARY BROSTON CONTROL SYSTEMS
CHAIN LINK FENCE
LANE CLOSURE 2L, 2M, SHORT TIME OPERATIONS
URBAN LANE CLOSURE 2L, 2M, UNDIVIDED
TRAFFIC CONTROL DEVICES

GENERAL NOTES

1. THE PROJECT CONSISTS OF CONVERTING SIX (6) EXISTING SEWAGE EDUCATOR LIFT STATIONS AND TWO (2) EXISTING SUCTION LIFT STATIONS TO SUBMERSIBLE DUPLEX LIFT STATIONS, ALONG WITH THE REHABILITATION OF EIGHT (8) EXISTING SUBMERSIBLE DUPLEX LIFT STATIONS. THE WORK INCLUDES REMOVAL AND REPLACEMENT OF LIFT STATION PUMPS, CONTROL PANELS, VALVES, PRESSURE GAUGES, GUIDE BARS, FLOAT SWITCHES, LIFT CABLES, DISCONNECT SWITCHES, POWER & ALARM CABLES, DISCHARGE PIPE, FORCE MAIN, WETWELL LOS, VALVE VAULTS, ACCESS HATCHES, AND FENCING, TOGETHER WITH RESTORATION OF ALL DISTURBED SURFACES AND ALL OTHER INCIDENTAL WORK REQUIRED TO COMPLETE THE PROJECT.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS, "I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2022, THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS, SIXTH EDITION", THE SPECIAL PROVISIONS AND ALL LOCAL AND STATE CODES GOVERNING THE CONSTRUCTION OF THE PROPOSED FACILITIES.
3. RIGHT-OF-WAYS, PROPERTY LINES AND TOPOGRAPHY SHOWN HEREON HAVE BEEN TAKEN FROM THE BEST AVAILABLE RECORDS AND MUST BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION.
4. TEMPORARY EROSION CONTROL MEASURES WILL BE USED TO CORRECT CONDITIONS THAT DEVELOPED DURING CONSTRUCTION THAT WERE UNFORESEEN DURING THE DESIGN STAGE OR, THAT ARE NEEDED TEMPORARILY TO CONTROL EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION PRACTICES.
5. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH OF ALL UTILITIES. OWNERS DO NOT WARRANT OR GUARANTEE THE COMPLETENESS OR THE CORRECTNESS OF THE INFORMATION GIVEN.
6. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE TO HAVE ALL UNDERGROUND UTILITIES INCLUDING WATER, GAS, ELECTRIC, STORM SEWER, TELEPHONE AND CABLE TV LOCATED AND SUITABLY MARKED. THE CONTRACTOR SHALL JULIE. ☎ 1-800-892-0123 AND ALL UTILITY UTILITY COMPANIES FOR UTILITY LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO BEGINNING. ANY DAMAGES TO UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL A UTILITY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED AT ONCE.
7. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS, AND ANY DAMAGE TO THEM DUE TO HIS NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
8. AFTER EXCAVATED AREAS HAVE BEEN BACKFILLED, GROUND SHALL BE RETURNED TO EXISTING OR PROPOSED GRADE AND EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REPLACING EXISTING ITEMS DAMAGED OR REMOVED DURING CONSTRUCTION, AND SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
10. NO ON SITE STORAGE OF EXCAVATED MATERIAL WILL BE PERMITTED, UNLESS APPROVED BY THE ENGINEER. ANY EXCAVATED MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE IMMEDIATELY AND STABILIZED BY SEEDING OR OTHER APPROVED METHODS TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE SITE.
11. THE CONTRACTOR HAS NO AUTHORITY TO PERMIT THE USE OF ANY PORTION OF THE SITE BY ANYONE EXCEPT FOR BUSINESS CONNECTED WITH THE CONSTRUCTION IN WHICH THIS CONTRACT IS CONCERNED.
12. ANY DAMAGE TO EXISTING ROAD SURFACES BY CONTRACTOR'S EQUIPMENT SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, AND THE REPAIR SHALL BE ACCEPTABLE TO THE OWNER. COST OF SUCH REPAIR SHALL BE INCIDENTAL TO THE COST OF CONSTRUCTION.
13. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT CAUSE SEWAGE TO BE DISCHARGED ON THE GROUND, IN WATERWAYS OR INTO THE GROUND NOR SHALL HE CAUSE BACKUP OF SEWAGE INTO BUILDINGS. SEWAGE SHALL BE DIVERTED BY PUMPING AND/OR PIPING AROUND ANY PORTIONS OF THE SEWER SYSTEM WHICH ARE TAKEN OUT OF SERVICE.
14. PERMITS AND LICENSES OF A TEMPORARY NATURE NECESSARY FOR THE PROCESSION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.
15. ANY REPAIR REQUIRING REPLACEMENT OF SEWER AT AN EXISTING MANHOLE SHALL INCLUDE A WATER-TIGHT CONNECTION TO THE EXISTING MANHOLE. MAKE CONNECTION WITH NON-SHRINK GROUT OR OTHER MATERIAL APPROVED BY THE ENGINEER.
16. WORK AREAS MAY HAVE LIMITED ACCESS AND INCLUDE FENCES, POWER POLES, OVERHEAD UTILITY LINES, ETC. ALL EXISTING FENCES, POWER POLES, ETC. SHALL BE REMOVED AND RE-INSTALLED AS NECESSARY. PROTECTION AND/OR REMOVAL AND RE-INSTALLATION OF UTILITY SERVICES SHALL BE COORDINATED WITH THE UTILITY COMPANIES. UTILITY COMPANY COSTS FOR PROTECTION AND/OR REMOVAL AND RE-INSTALLATION OF UTILITY SERVICES SHALL BE BILLED DIRECTLY TO THE CITY OF CAHOKIA HEIGHTS.
17. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH IDOT HIGHWAY STANDARDS 701301, 701501, AND 701801.

UTILITY OWNERS

JULIE
(800) 892-0123
ETC MISSISSIPPI
RIVER GAS TRANS.
(713) 989-7079
WRPL BUCKEYE
PARTNERS
(610) 357-3294

AMEREN ILLINOIS
(618) 301-5305
EVERSTREAM GLC
HOLDING
(216) 402-1829

AT/DISTRIBUTION
(630) 573-5450
ILLINOIS AMERICAN
WATER
(859) 321-8235

CHARTER/SPECTRUM
(636) 232-1398

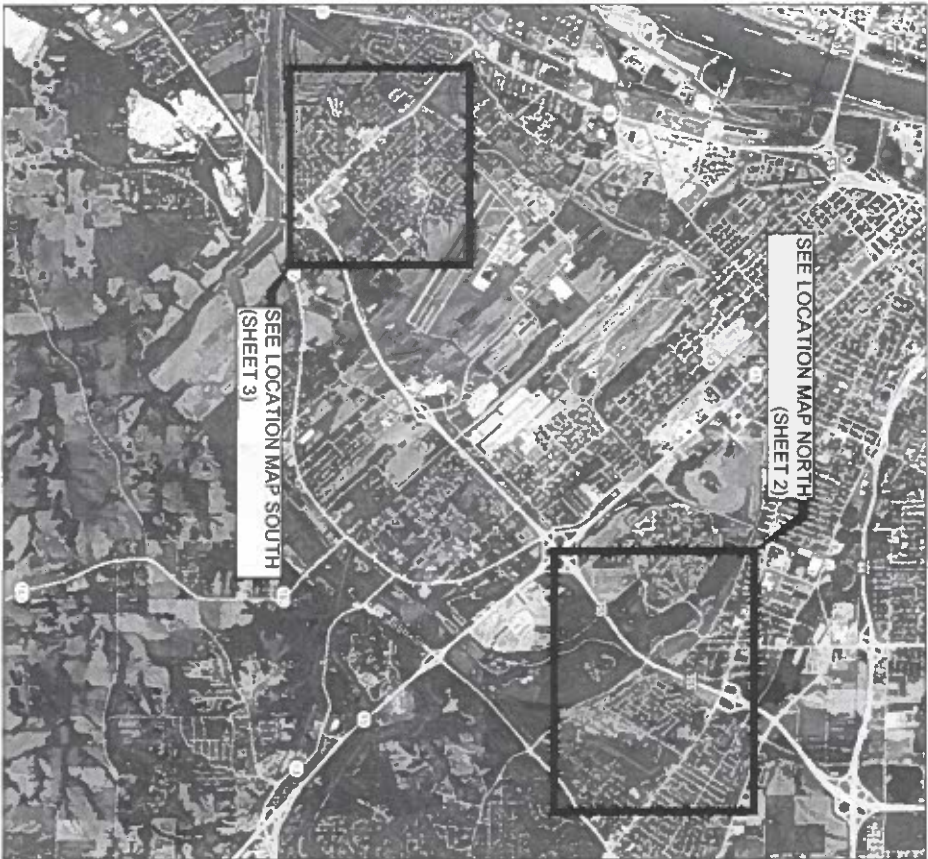
CITY OF CAHOKIA
HEIGHTS
(618) 410-7808

WINDSTREAM
KDL/MCLEOD USA
(800) 289-1901

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS

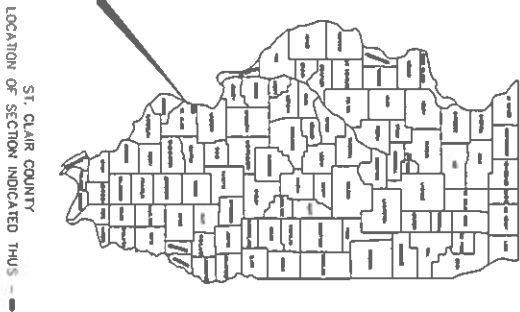
PREPARED FOR:
CITY OF CAHOKIA HEIGHTS

PREPARED BY:
HURST-ROSCHKE, INC.



AREA MAP
NO SCALE

PROJECT LOCATION



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HR

Hurst-Roschke, Inc.
PROJECT SPECIAL DESIGN SERVICES
NO. 5 BANK SQUARE
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PH 618.398.0890
www.hurst-roschke.com
HILLSBORO, IL
MARION, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

SIGNATURE
DATE
LICENSE EXPIRES

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

MK.	DATE	DESCRIPTION
	08/20/24	
PROJECT NO. 860-0663		
DESIGN	DRAWN	CHECK
1/8	JJD	LS

COVER SHEET &
GENERAL NOTES

DATE

TERRY SUDHOUT
ILLINOIS P.E. NO. 062-062371
EXPIRES: 11-30-25



SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

LOCATION MAP
(NORTH)

2

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T2N, R9W, 3RD P.M., SECTIONS 21 & 22
CITY OF CANOKIA HEIGHTS
CENTREVILLE TOWNSHIP

NOTE:
SEE SPECIFICATION SECTION 01031 FOR
PIEZOMETER INFORMATION

HR

Hurst-Rosche, Inc.

PROFESSIONAL ENGINEERING FIRM

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MARION, IL

SPRINGFIELD, IL

ARNOLD, MO

NASHVILLE, TN

SIGNATURE

DATE

LICENSE EXPIRES

LIFT STATION REHABILITATION - 16 LOCATIONS

CITY OF CAHOKIA HEIGHTS

ST. CLAIR COUNTY, ILLINOIS 62206

NO.	DATE	DESCRIPTION
1	08/2024	
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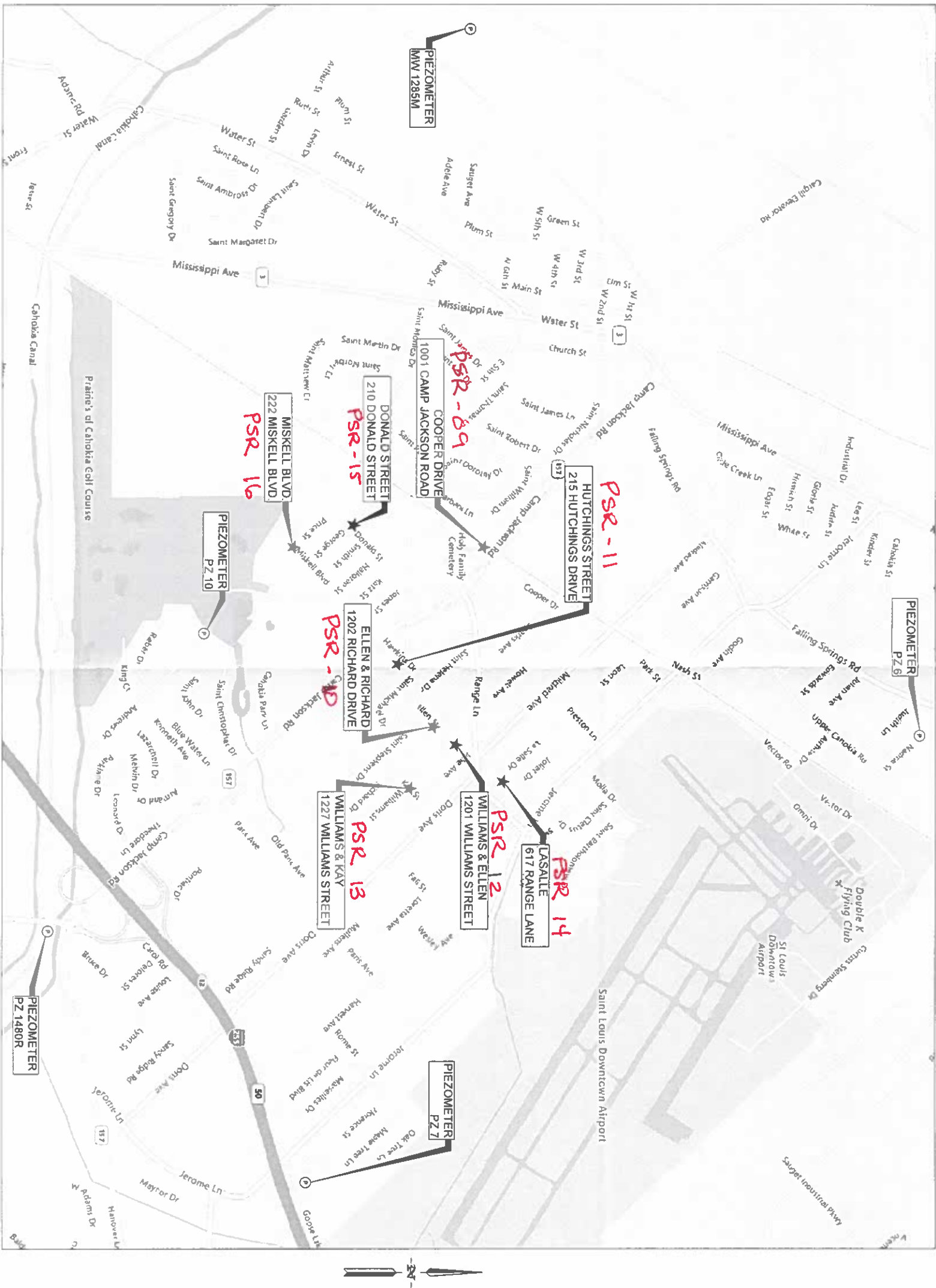
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DESIGN DRAWN CHECK

TAS JLD JS

LOCATION MAP

(SOUTH)



LOCATION MAP (SOUTH)

NO SCALE

TIN, R10W, 3RD P.M., SECTIONS 2 & 11

CITY OF CAHOKIA HEIGHTS

CENTREVILLE TOWNSHIP

NOTE:

SEE SPECIFICATION SECTION 01031 FOR

PIEZOMETER INFORMATION

HR

Hurst-Rosche, Inc.

PROJECT MANUAL DESIGN NUMBER: 16-000009

NO. 5 BANK SQUARE

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HILLSBORO, IL

MARION, IL

SPRINGFIELD, IL

ARNOLD, MO

NASHVILLE, TN

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DATE

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LIFT STATION REHABILITATION - 16 LOCATIONS

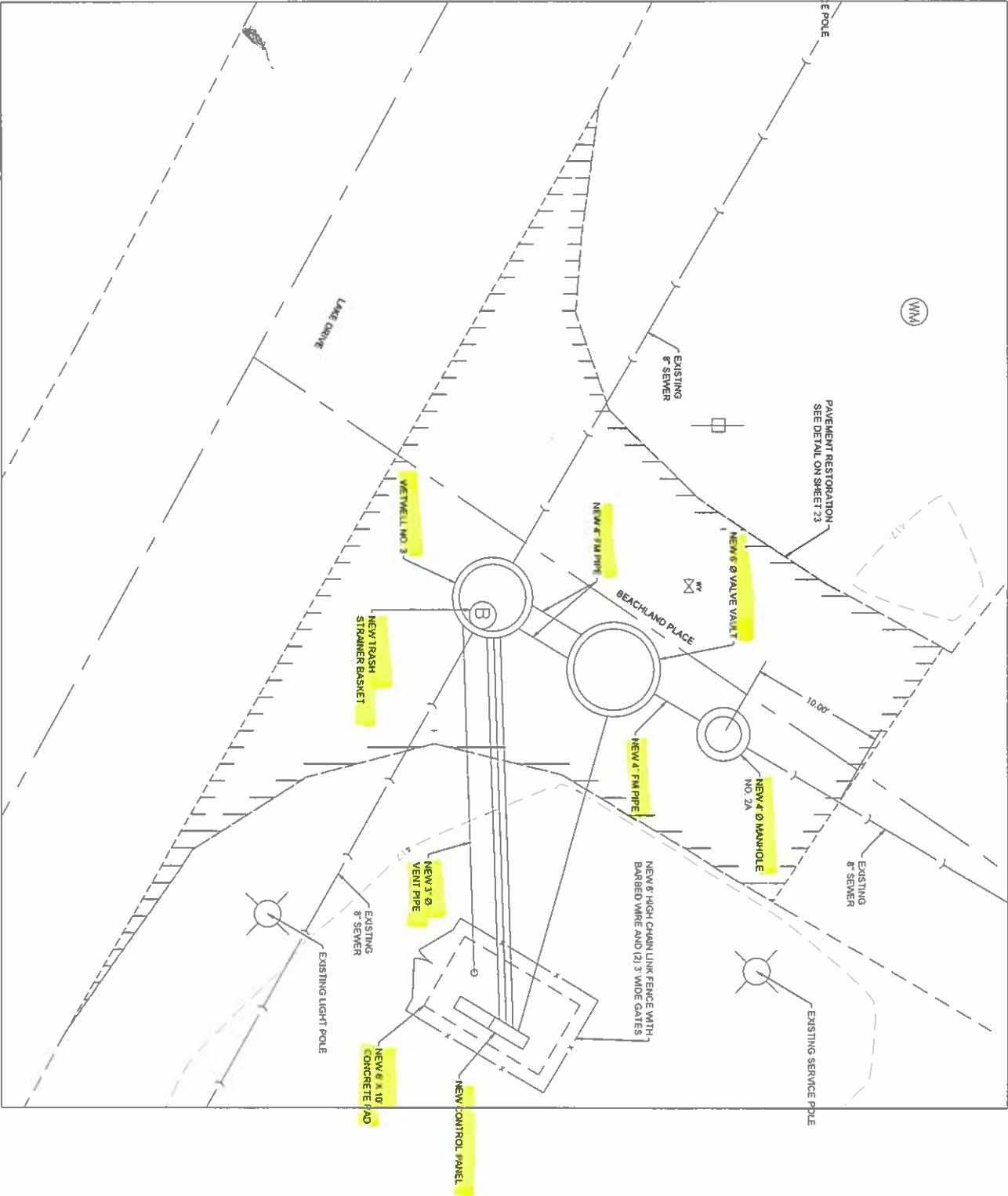
CITY OF CAHOKIA HEIGHTS

ST. CLAIR COUNTY, ILLINOIS 62206

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TAS	AJD
	CHECK:
	LS

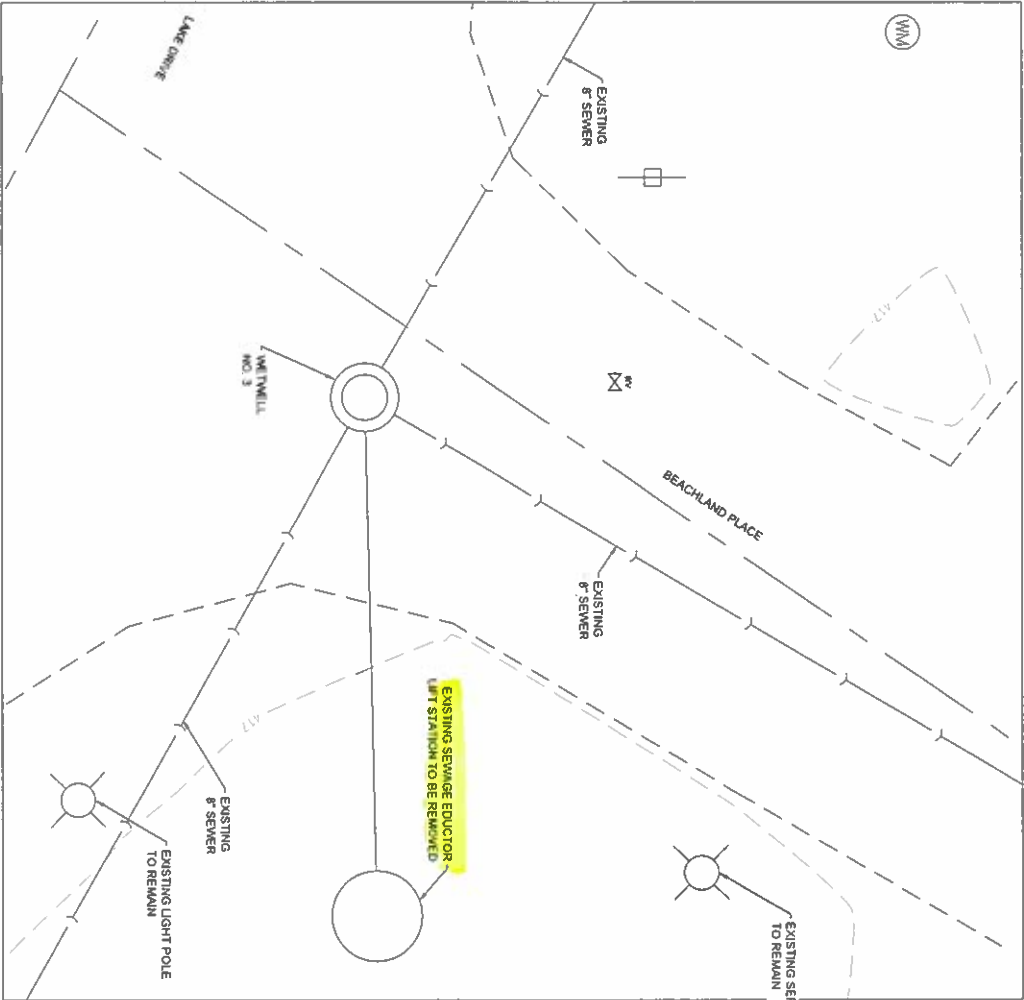
BEACHLAND

SITE PLANS



PROPOSED SITE PLAN

SCALE 1"=5'



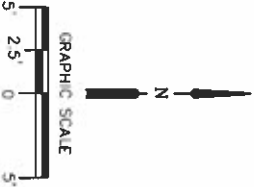
EXISTING SITE PLAN

SCALE 1"=5'

PSR 01

GENERAL NOTES:

- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
- ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
- EXISTING ELECTRICAL SERVICE IS 60 AMP. SINGLE PHASE UPGRADE TO 100 AMP, 3 PHASE SERVICE.
- SEE LIFT STATION REHABILITATION DETAILS ON SHEET 20.

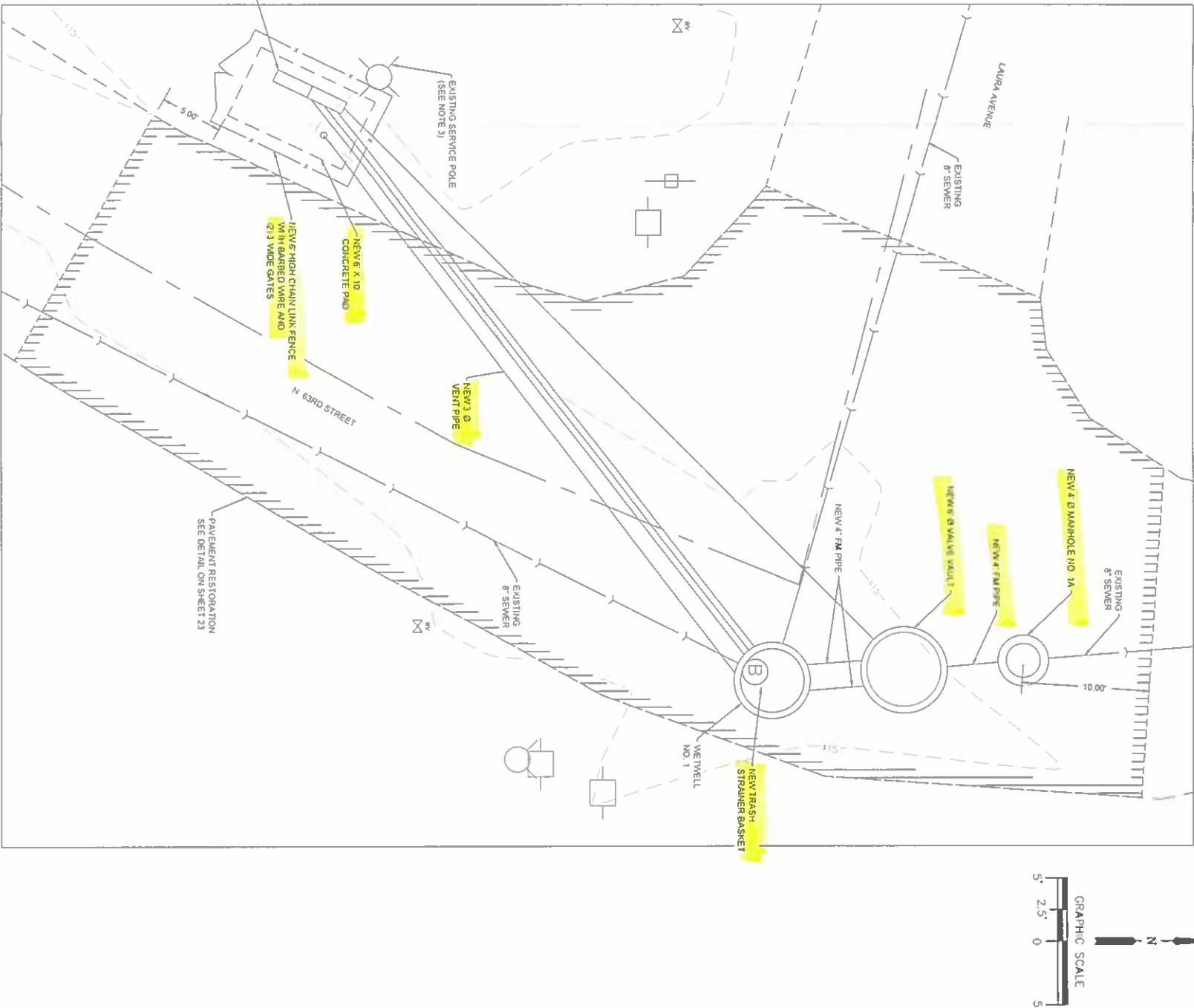


SIGNATURE _____
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LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

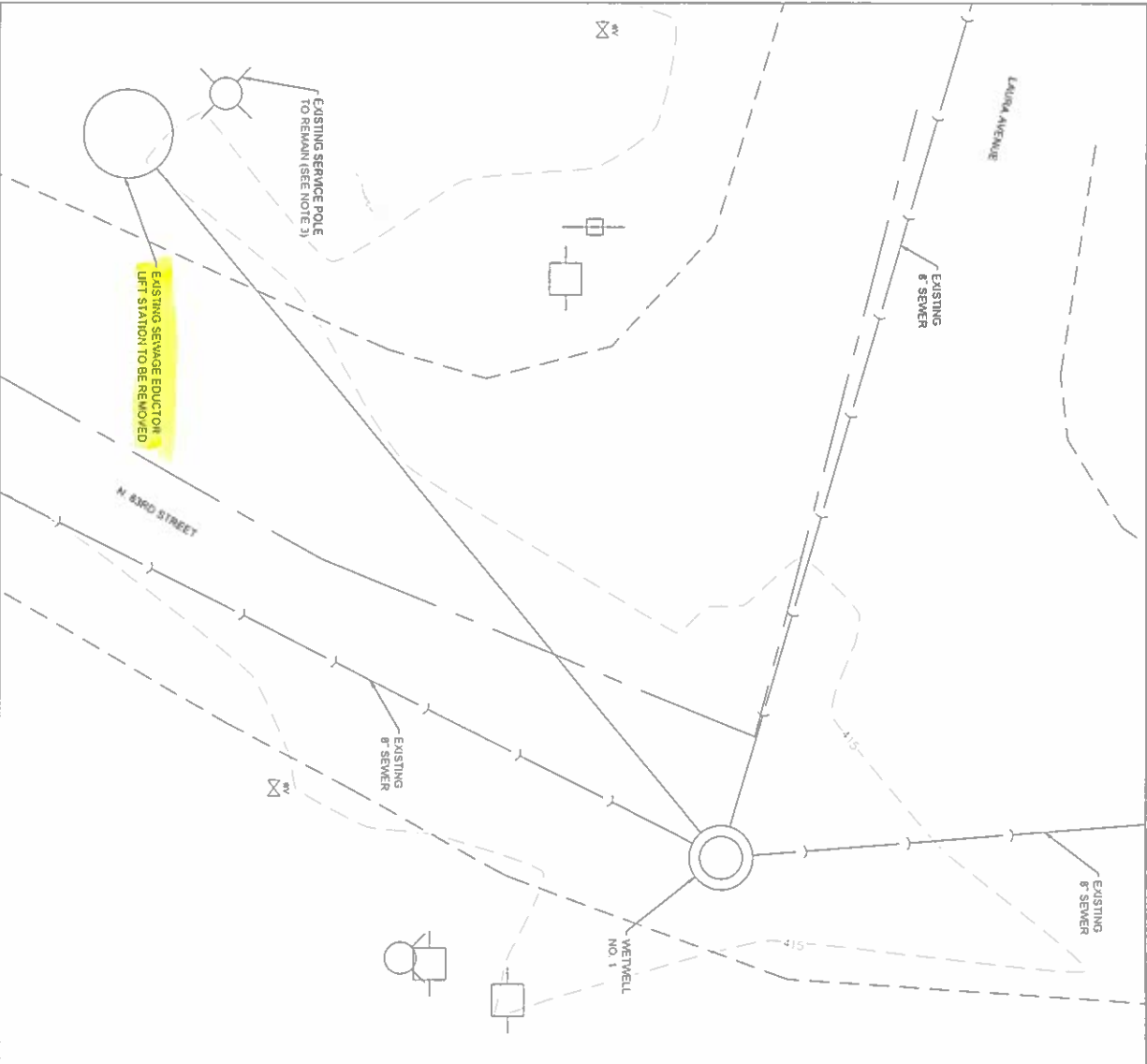
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	08/2024	
PROJECT NO. 860-0883		
DESIGN	DRAWN	CHECK
TMS	JLD	LS

63RD & LAURA
SITE PLANS



PROPOSED SITE PLAN
SCALE 1"=5'

- GENERAL NOTES:**
- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
 - ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
 - EXISTING SERVICE POLE TO REMAIN. REMOVE AND REINSTALL AS REQUIRED.
 - SEE LIFT STATION REHABILITATION DETAILS ON SHEET 20.



EXISTING SITE PLAN
SCALE 1"=5'



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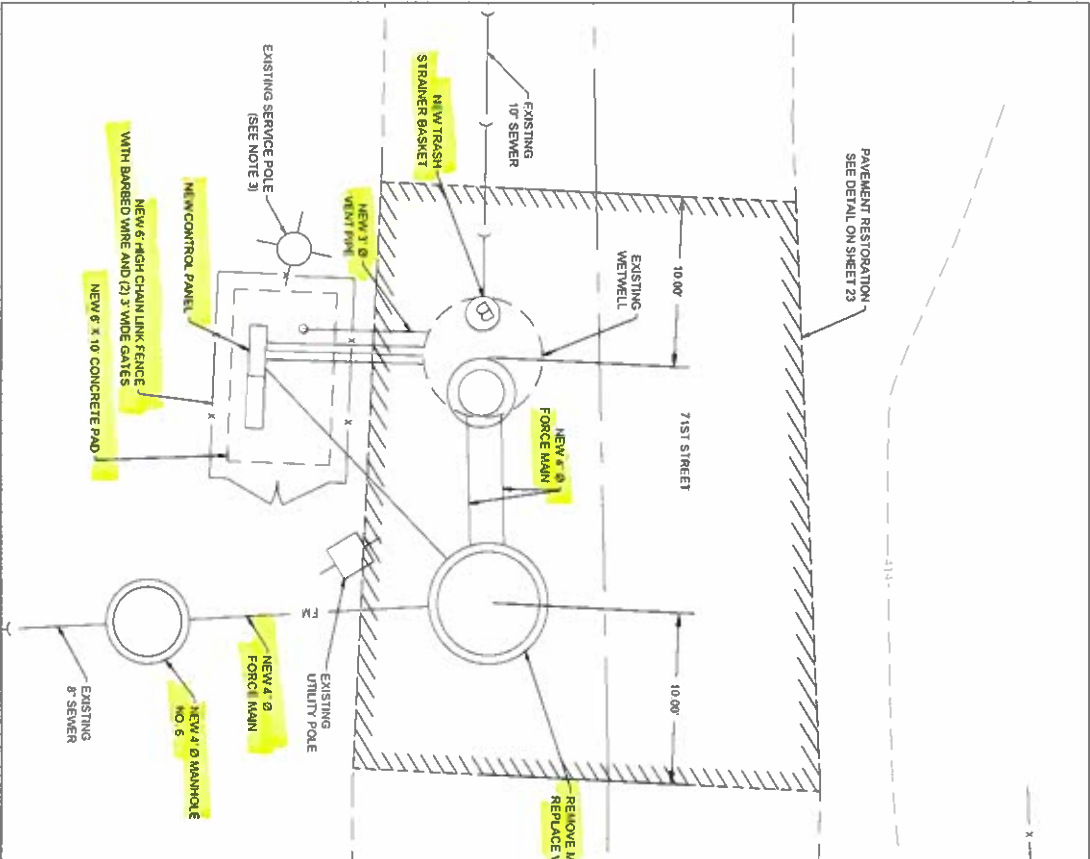
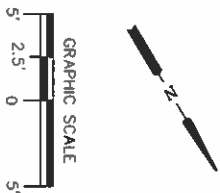
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LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

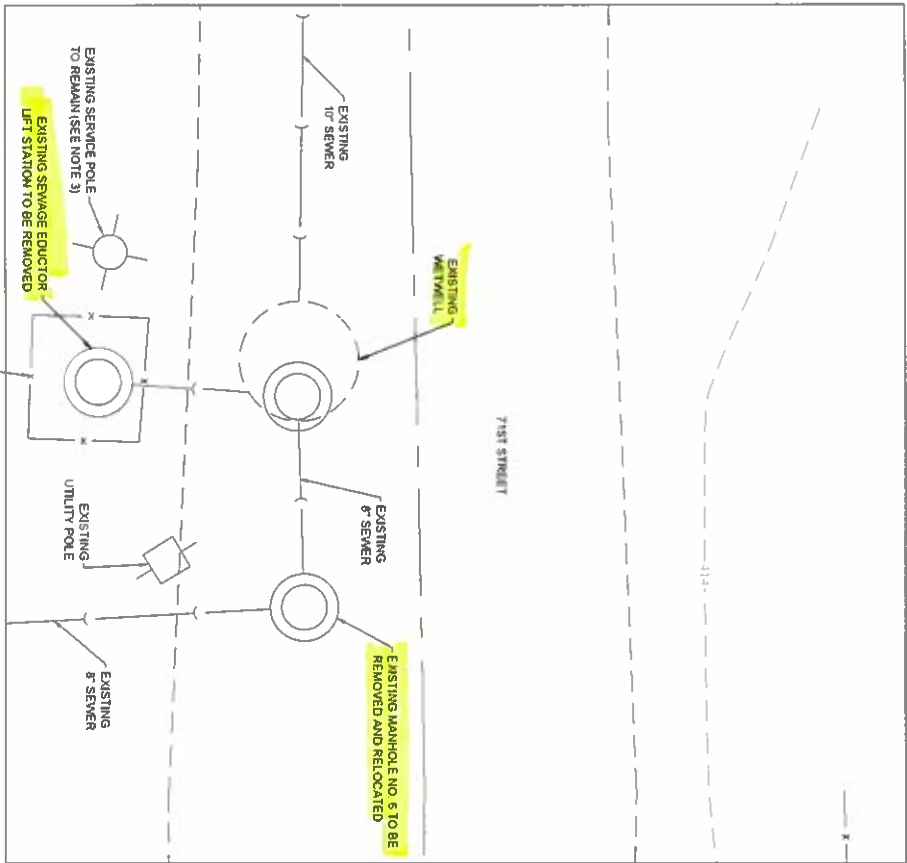
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PROJECT NO.: 860-0683
DESIGN | DRAWN | CHECK |
TAS | JLD | LS

7/ST & AMES
SITE PLANS



PROPOSED SITE PLAN
SCALE 1"=5'



EXISTING SITE PLAN
SCALE 1"=5'

GENERAL NOTES:

1. EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
2. ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
3. EXISTING SERVICE POLE TO REMAIN. REMOVE AND REINSTALL AS REQUIRED.
4. SEE LIFT STATION REHABILITATION DETAILS ON SHEET 20.

PSK-DW



Hurst-Rosche, Inc.
PROJECT LOCATION: 1610000234
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MARION, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

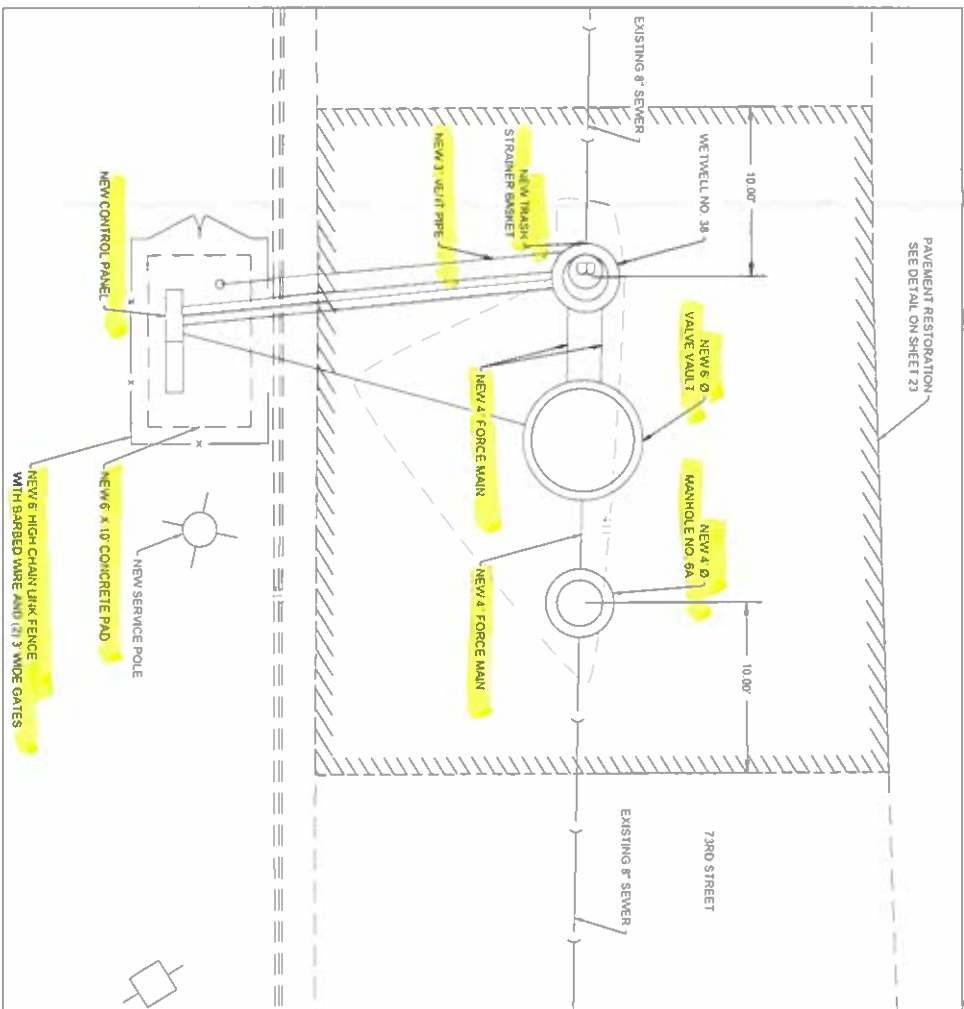
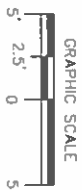
LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

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PROJECT NO	860-0683	
DESIGN	DRAWN	CHECK
TAS	JLD	LS

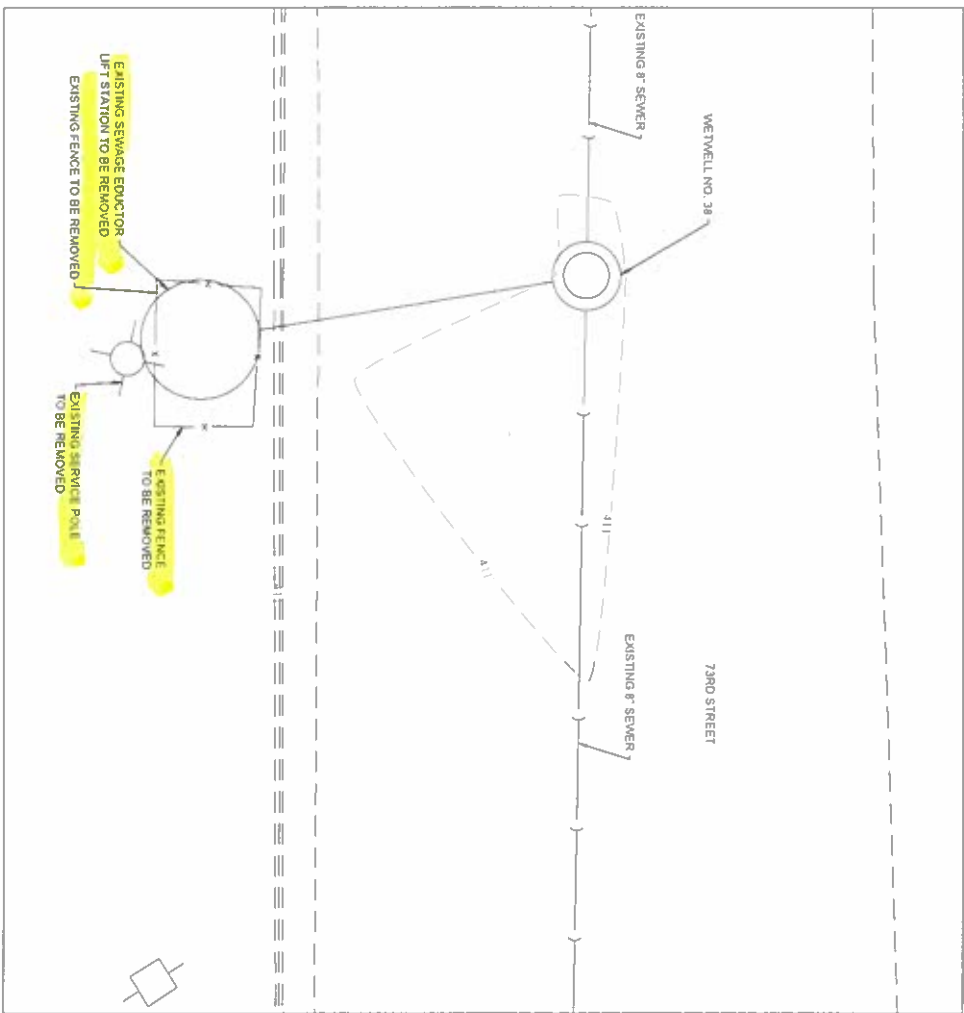
73RD STREET
SITE PLANS

GENERAL NOTES:

- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
- ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
- SEE LIFT STATION REHABILITATION DETAILS ON SHEET 20.



PROPOSED SITE PLAN
SCALE: 1"=5'



EXISTING SITE PLAN
SCALE: 1"=5'

PSR- 03



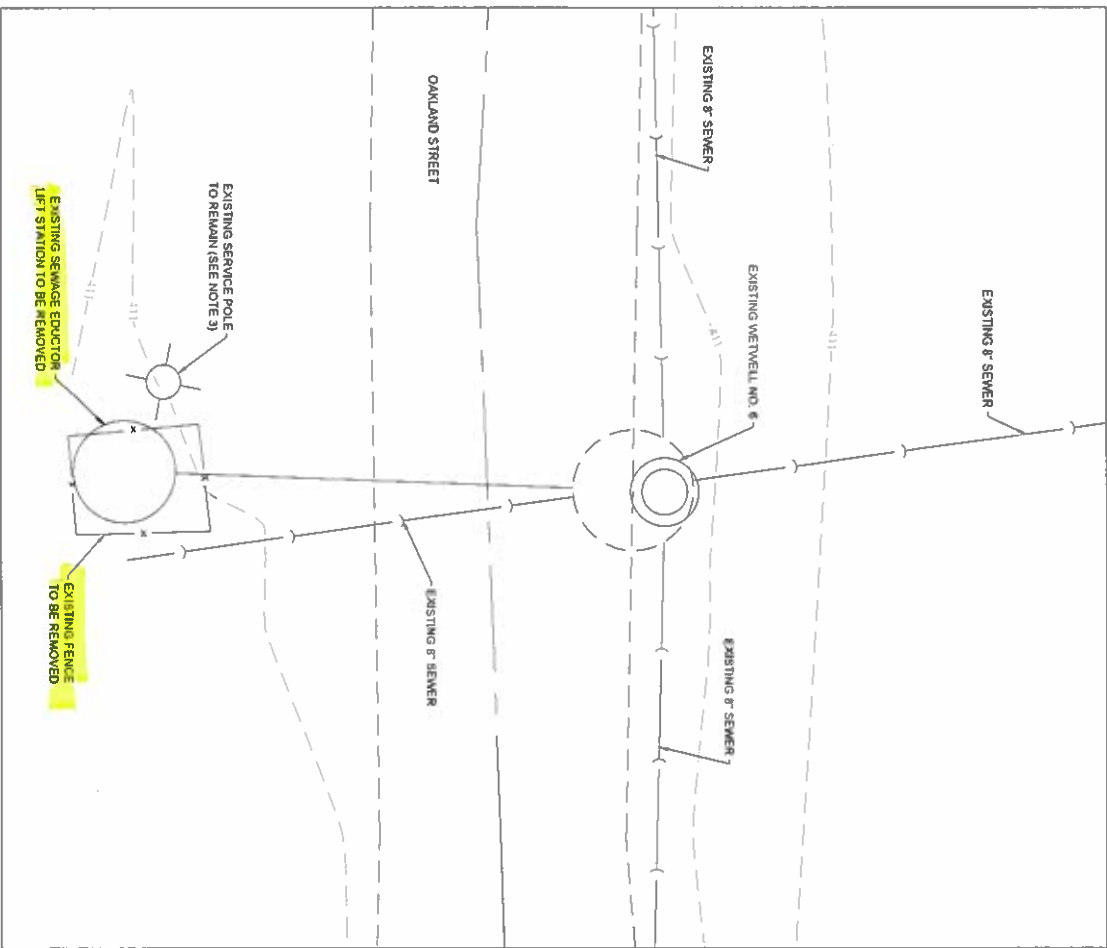
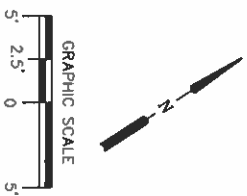
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www.hurst-rosche.com
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MARION, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

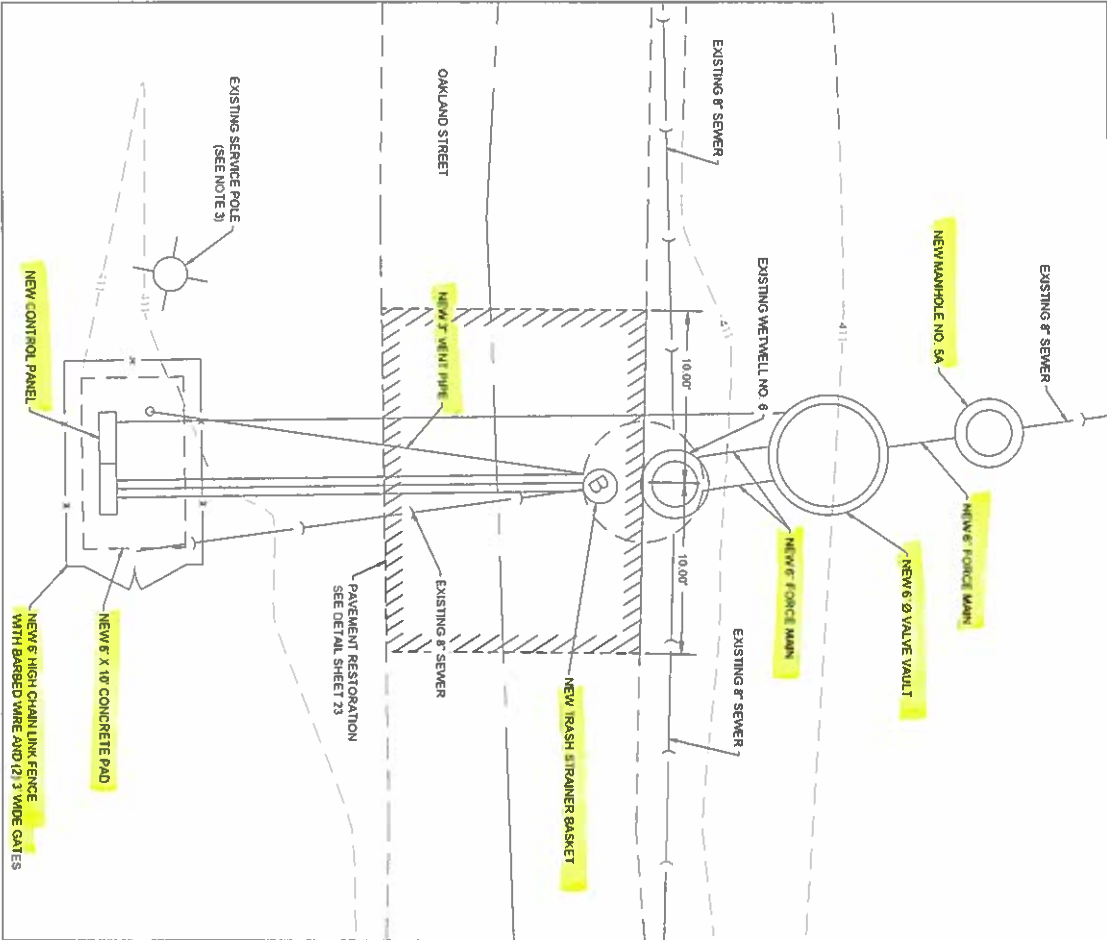
LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

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	08/2024	
PROJECT NO: 860-0693		
DESIGN: TAS	DRAWN: JLD	CHECK: LS

73RD & OAKLAND
SITE PLANS



EXISTING SITE PLAN
SCALE 1"=5'

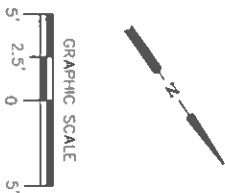
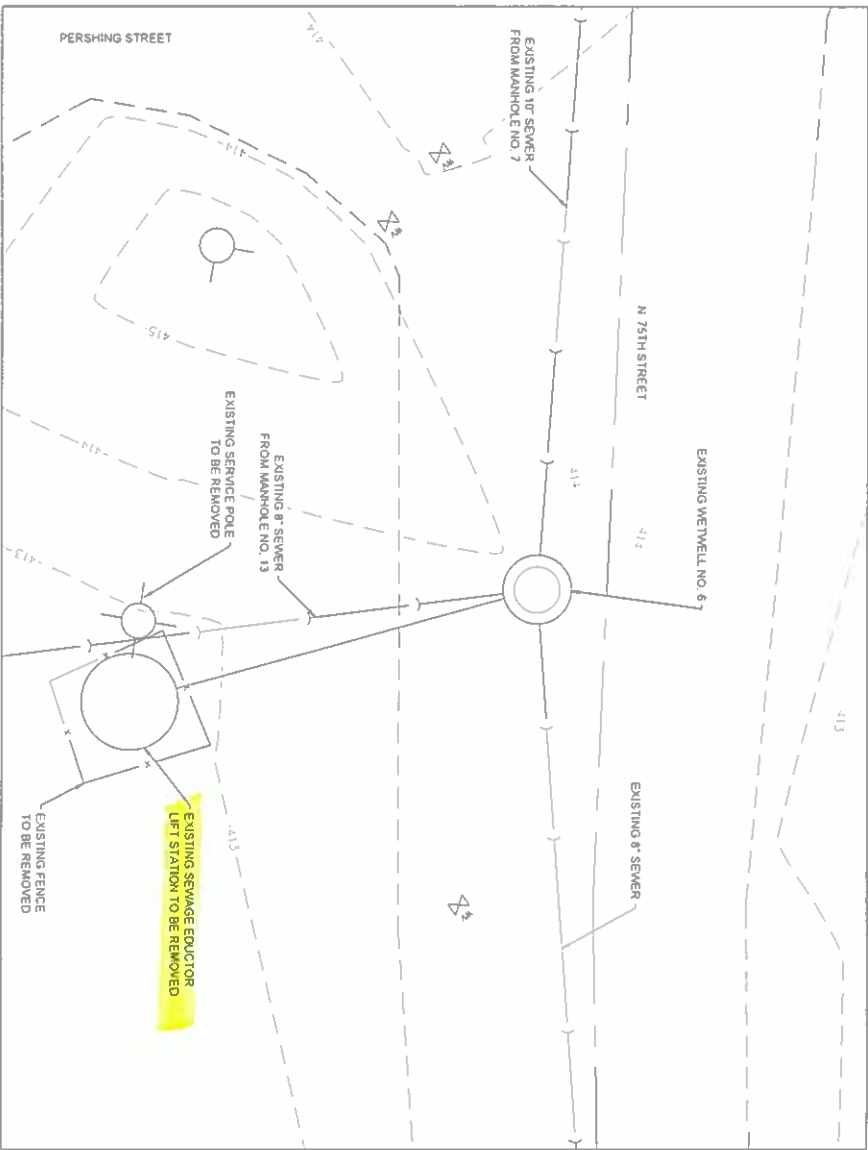


PROPOSED SITE PLAN
SCALE 1"=5'

GENERAL NOTES:

- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
- ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
- EXISTING SERVICE POLE TO REMAIN. REMOVE AND REINSTALL AS REQUIRED.
- SEE LIFT STATION REHABILITATION DETAILS ON SHEET 20.

PSR-04



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HILLSBORO, IL
MARION, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

MK	DATE	DESCRIPTION
	08/20/24	

PROJECT NO: 860-0683		
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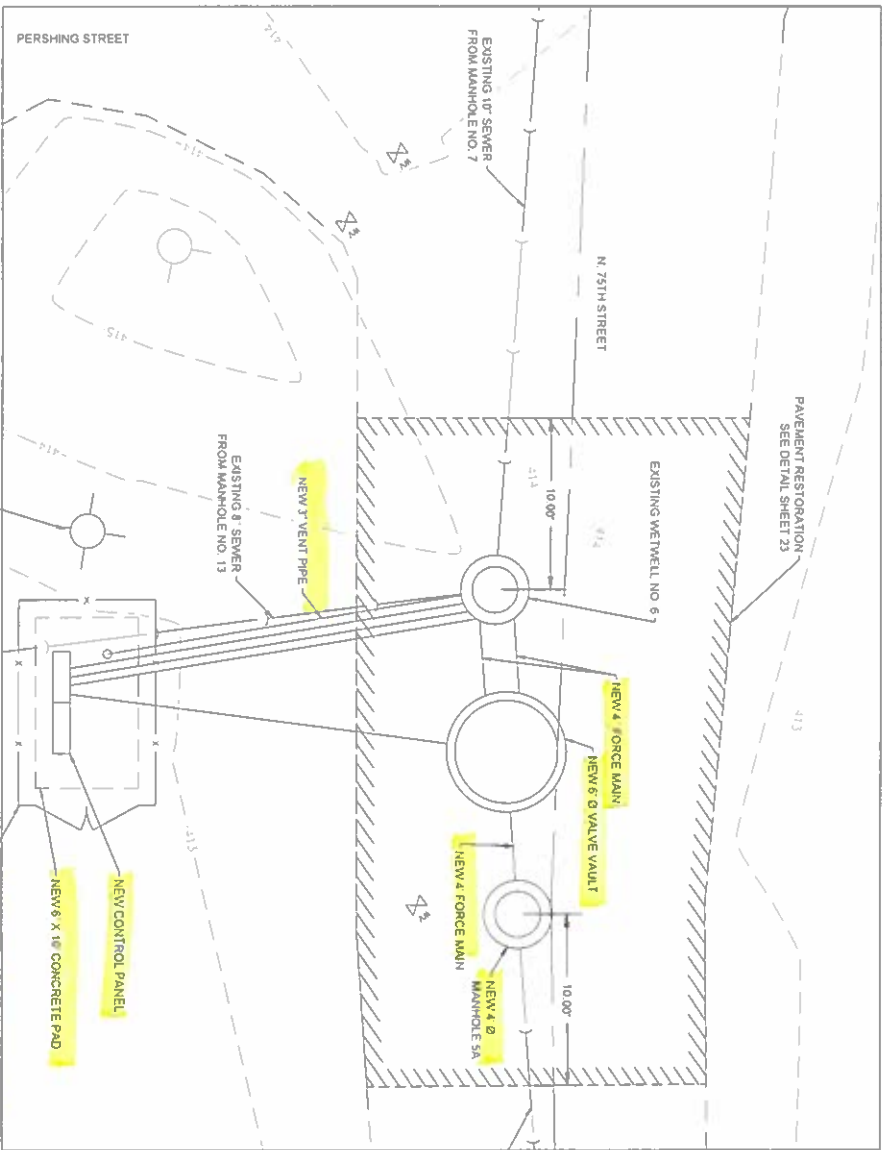
75TH & PERSHING
SITE PLANS

GENERAL NOTES

- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
- ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
- TRASH STRAINER BASKET NOT REQUIRED.
- SEE LIFT STATION REHABILITATION DETAILS ON SHEET 20.

PSR-05

EXISTING SITE PLAN
SCALE 1"=5'



PROPOSED SITE PLAN
SCALE 1"=5'

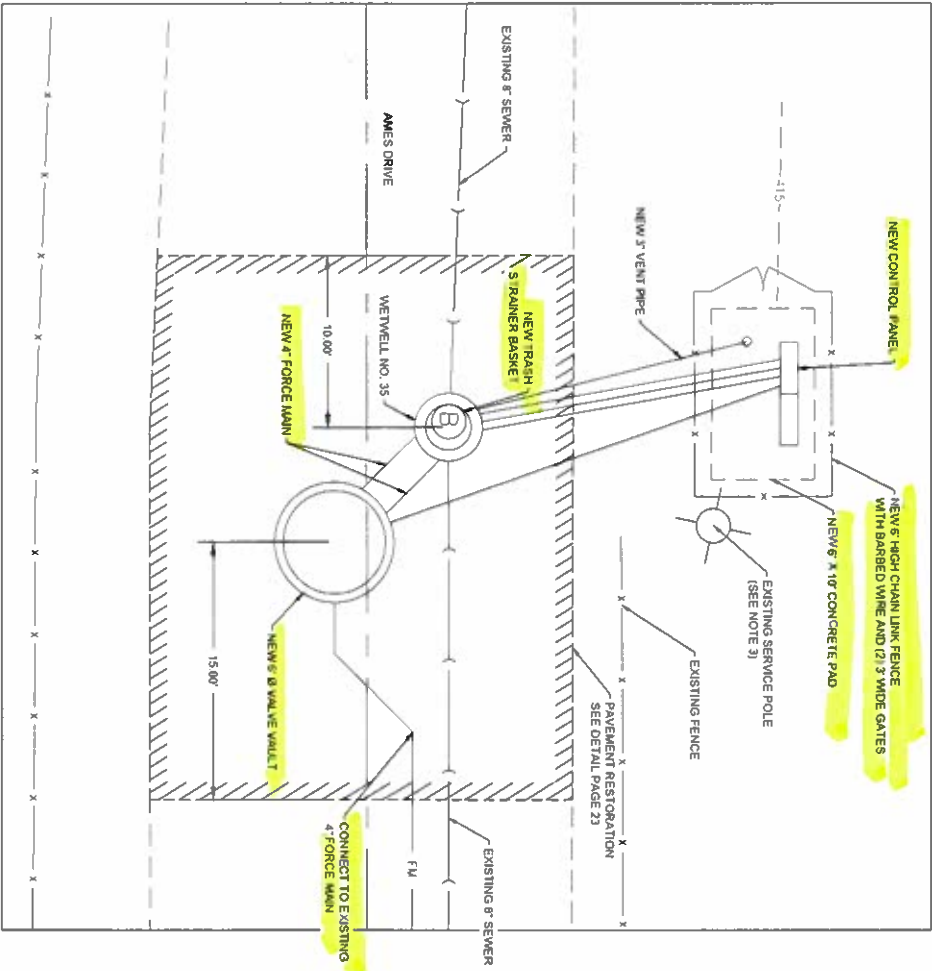
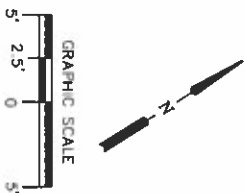
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LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

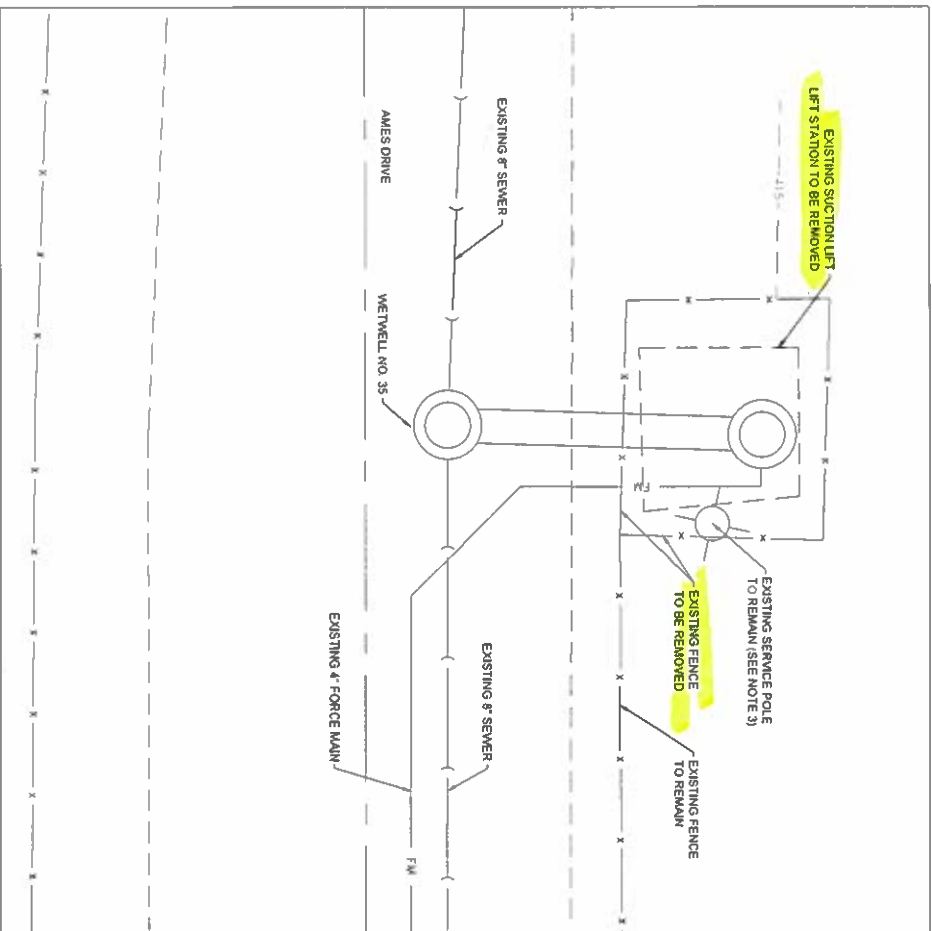
MK	DATE	DESCRIPTION
	08/2024	

PROJECT NO. 890-0883
DESIGN DRAWN CHECK
TAS JLD LS

WILLIE HOLMES
PILL BOX
SITE PLANS



PROPOSED SITE PLAN
SCALE 1"=5'



EXISTING SITE PLAN
SCALE 1"=5'

GENERAL NOTES

- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
- ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
- STRAIGHTEN EXISTING SERVICE POLE AND/OR REMOVE AND REINSTALL AS REQUIRED.
- EXISTING ELECTRICAL SERVICE IS 100 AMP SINGLE PHASE. UPGRADE TO 100 AMP 3-PHASE SERVICE.
- SEE LIFT STATION REHABILITATION DETAILS ON SHEET 21.

PSR.08

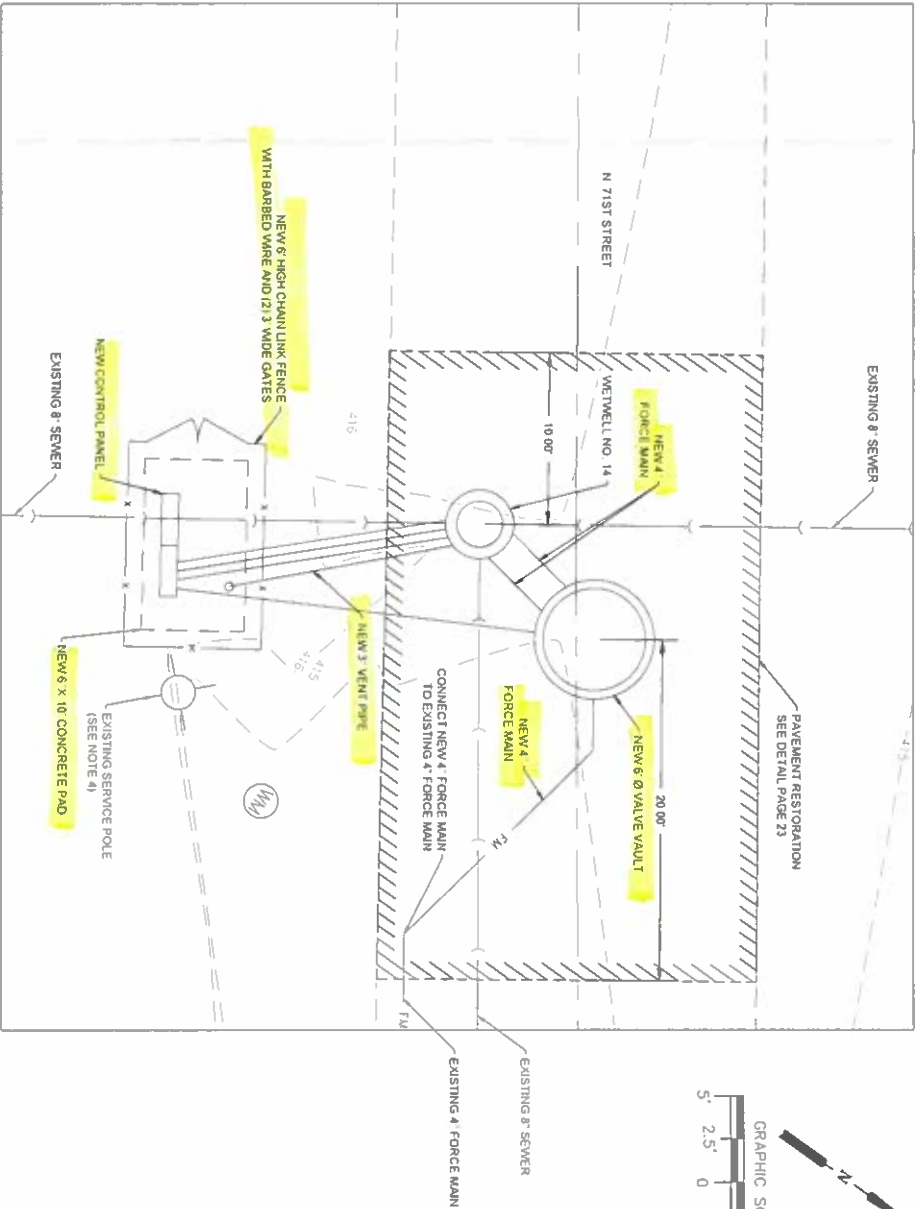
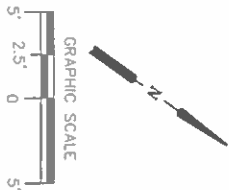
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 DATE _____
 LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
 CITY OF CAHOKIA HEIGHTS
 ST. CLAIR COUNTY, ILLINOIS 62206

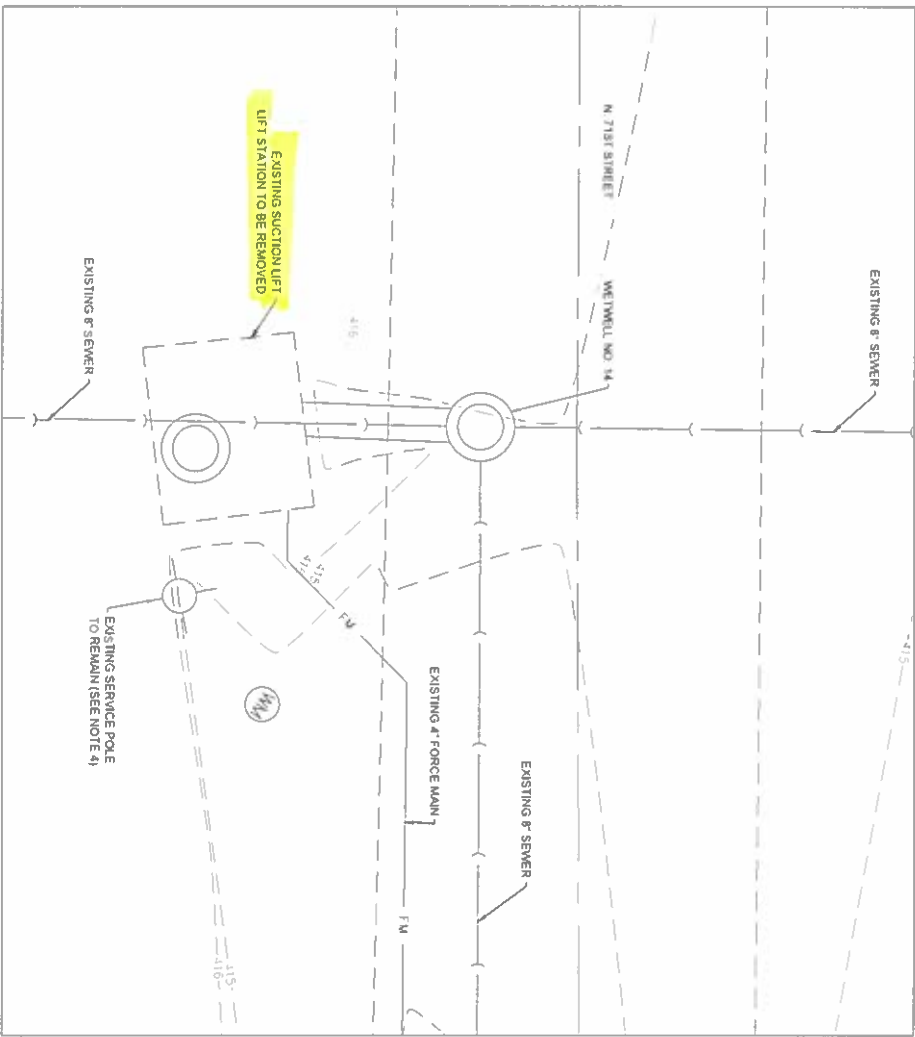
MC	DATE	DESCRIPTION
	08/2024	

PROJECT NO. 860-0683
DESIGN DRAWN CHECK
TAS JLD LS

LAKE DRIVE PILL BOX
 SITE PLANS



PROPOSED SITE PLAN
 SCALE 1"=5'



EXISTING SITE PLAN
 SCALE 1"=5'

PSR 07

- GENERAL NOTES
- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
 - ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE
 - TRASH STRAINER BASKET NOT REQUIRED
 - EXISTING SERVICE POLE TO REMAIN. REMOVE AND REINSTALL AS REQUIRED.
 - EXISTING ELECTRICAL SERVICE IS 200 AMP SINGLE PHASE. UPGRADE TO 100 AMP 3-PHASE SERVICE
 - SEE LIFT STATION REHABILITATION DETAILS ON SHEET 21.



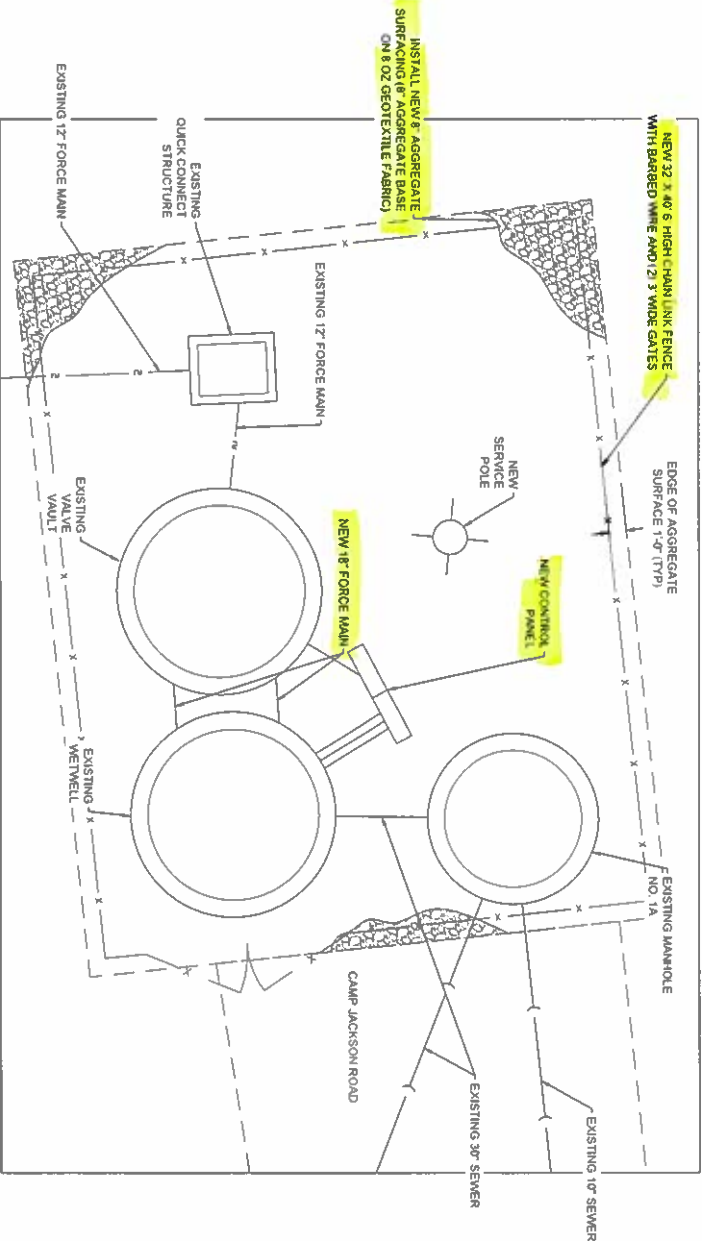
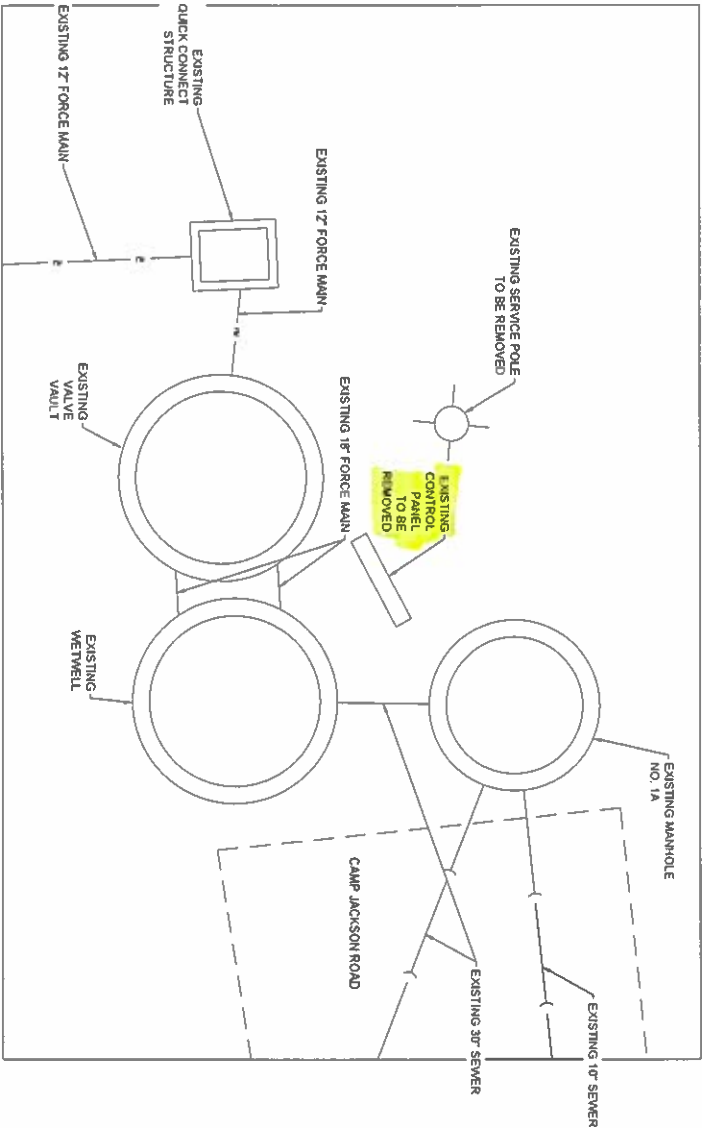
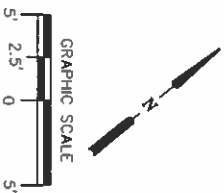
Hurst-Rosche, Inc.
PROJECT ADDRESS: DESIGN NUMBER: 16-000234
NO. 5 BANK SQUARE
EAST ST. LOUIS, IL
PH. 618.398.0890
www.hurst-rosche.com
HILLSBORO, IL
MARION, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

MC	DATE	DESCRIPTION
	08/2024	
PROJECT NO. 860-0883		
DESIGN	DRAWN	CHECK
TAS	JLD	LS

COOPER DRIVE
SITE PLANS

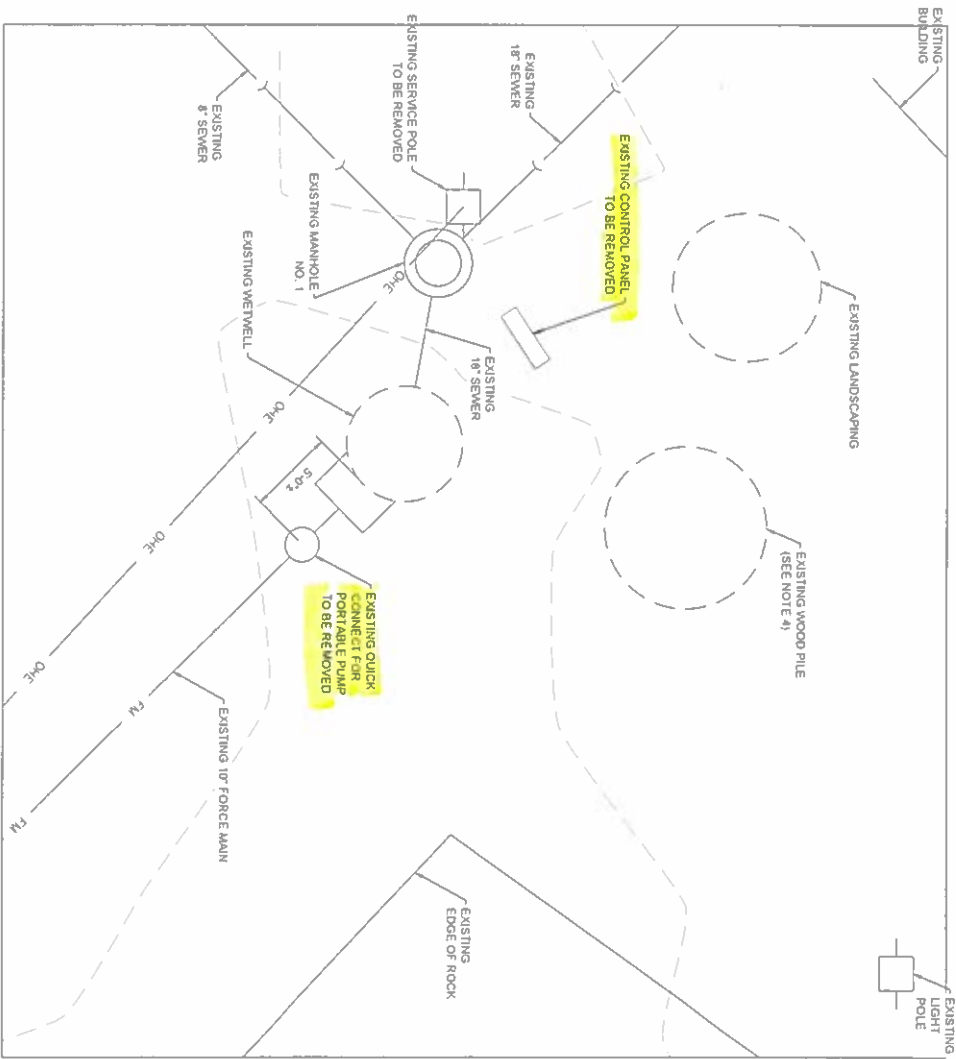


Proposed

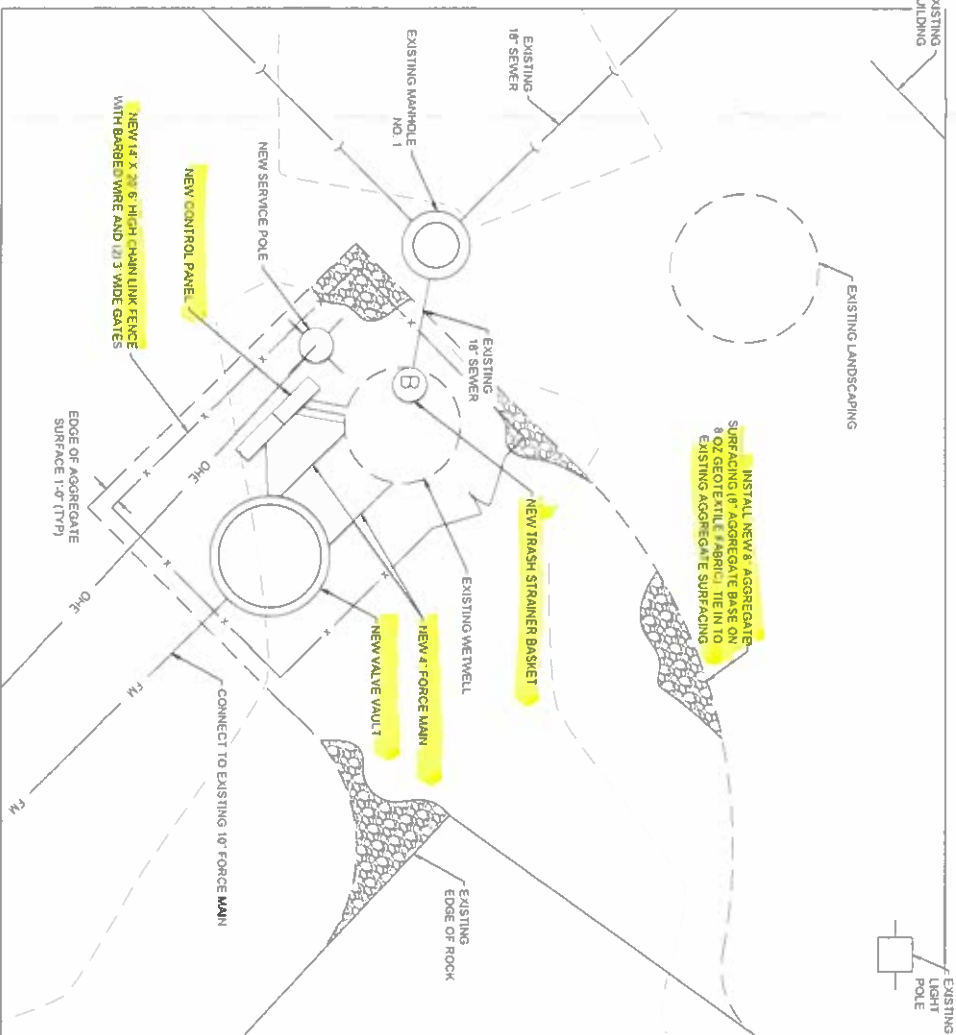
PSR 09

GENERAL NOTES:

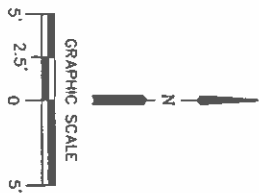
1. EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
2. ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
3. SEE LIFT STATION REHABILITATION DETAILS ON SHEET 22.



EXISTING
SITE PLAN
SCALE 1"=5'



PROPOSED
SITE PLAN
SCALE 1"=5'



HR
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ARNOLD, MO
NASHVILLE, TN

SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

M/K	DATE	DESCRIPTION
	08/2024	

PROJECT NO. 860-0883
DESIGN DRAWN CHECK
TAS JLD LS

LASALLE SITE PLANS

- GENERAL NOTES:**
- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
 - ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
 - SEE LIFT STATION REHABILITATION DETAILS ON SHEET 22.
 - EXISTING WOOD PILE TO BE RELOCATED AS REQUIRED, COORDINATE WITH CITY.

HR

Hurst-Rosche, Inc.
PROFESSIONAL ENGINEER LICENSE # 140000000

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MARION, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

SIGNATURE _____

DATE _____

LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS

CITY OF CAHOKIA HEIGHTS

ST. CLAIR COUNTY, ILLINOIS 62206

M/C	DATE	DESCRIPTION
	08/2024	

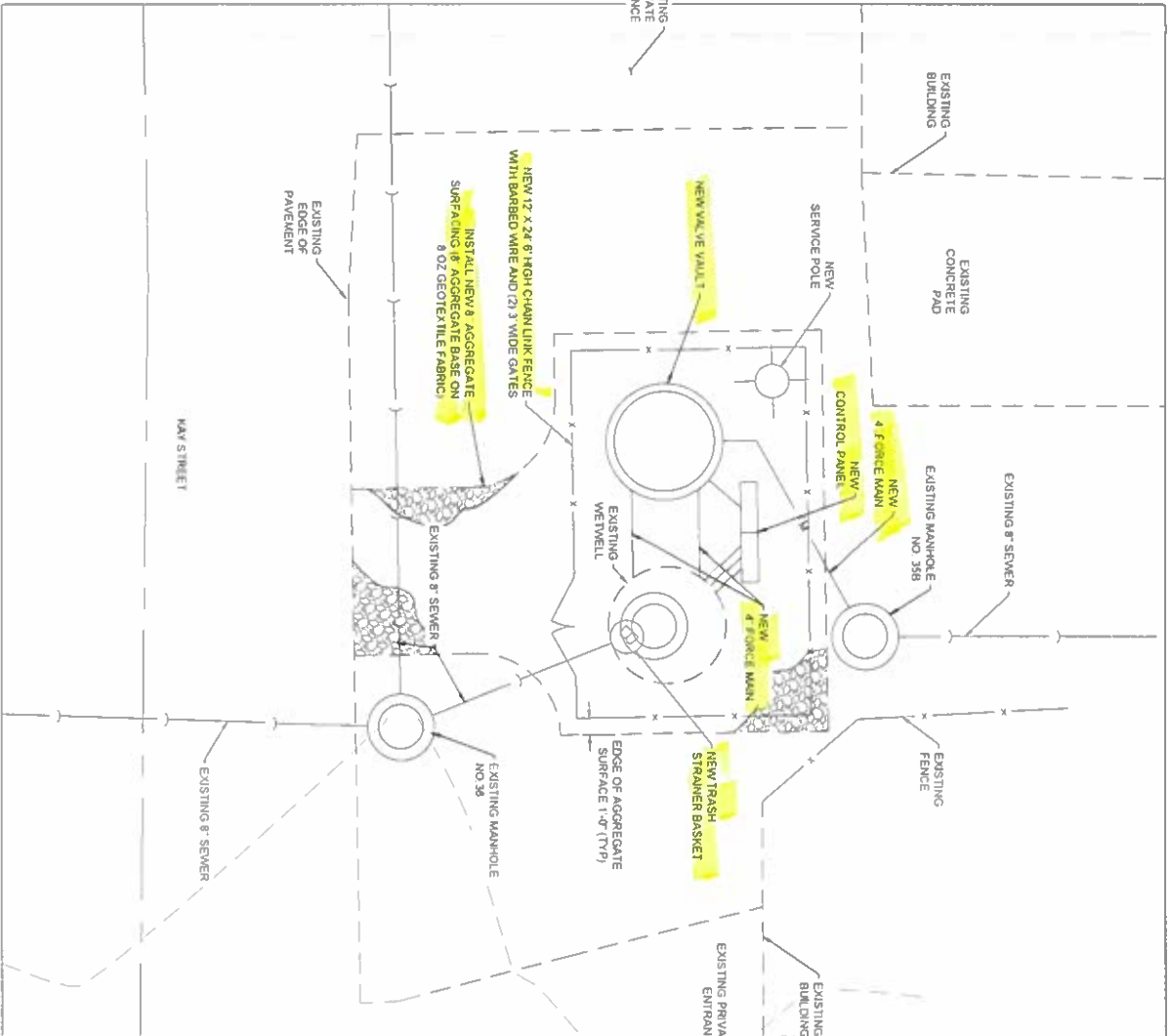
PROJECT NO. 860-0683

DESIGN | DRAWN | CHECK

MS | JD | LS

WILLIAMS & KAY

SITE PLANS



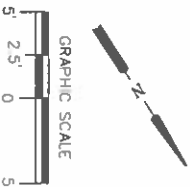
PROPOSED
SITE PLAN
SCALE 1"=5'

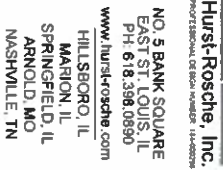


EXISTING
SITE PLAN
SCALE 1"=5'

GENERAL NOTES:

- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
- ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
- SEE LIFT STATION REHABILITATION DETAILS ON SHEET 22.
- THE EXISTING DISCONNECT SWITCH FOR THE WILLIAMS & KAY LIFT STATION IS LOCATED ADJACENT TO THE WILLIAMS & ELLEN LIFT STATION CONTROL PANEL (SEE SHEET 14). THE DISCONNECT SWITCH FOR THE WILLIAMS & KAY STATION SHALL BE RELOCATED TO THE WILLIAMS & KAY SERVICE POLE.





NO. 5 BANK SQUARE
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DATE _____
LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

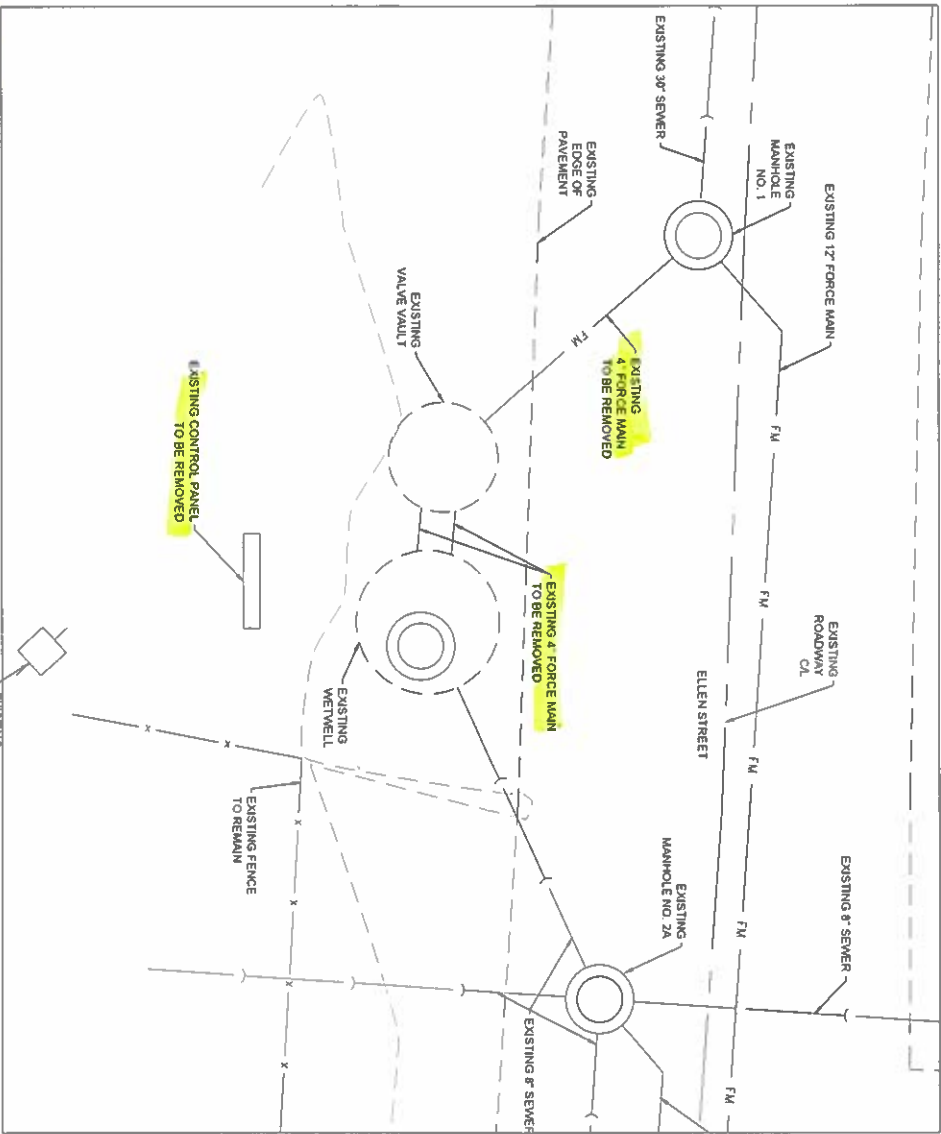
MMK	DATE	DESCRIPTION
	08/2024	

PROJECT NO: 860-0683		
DESIGN:	DRAWN:	CHECK:
TAS	JJD	LS

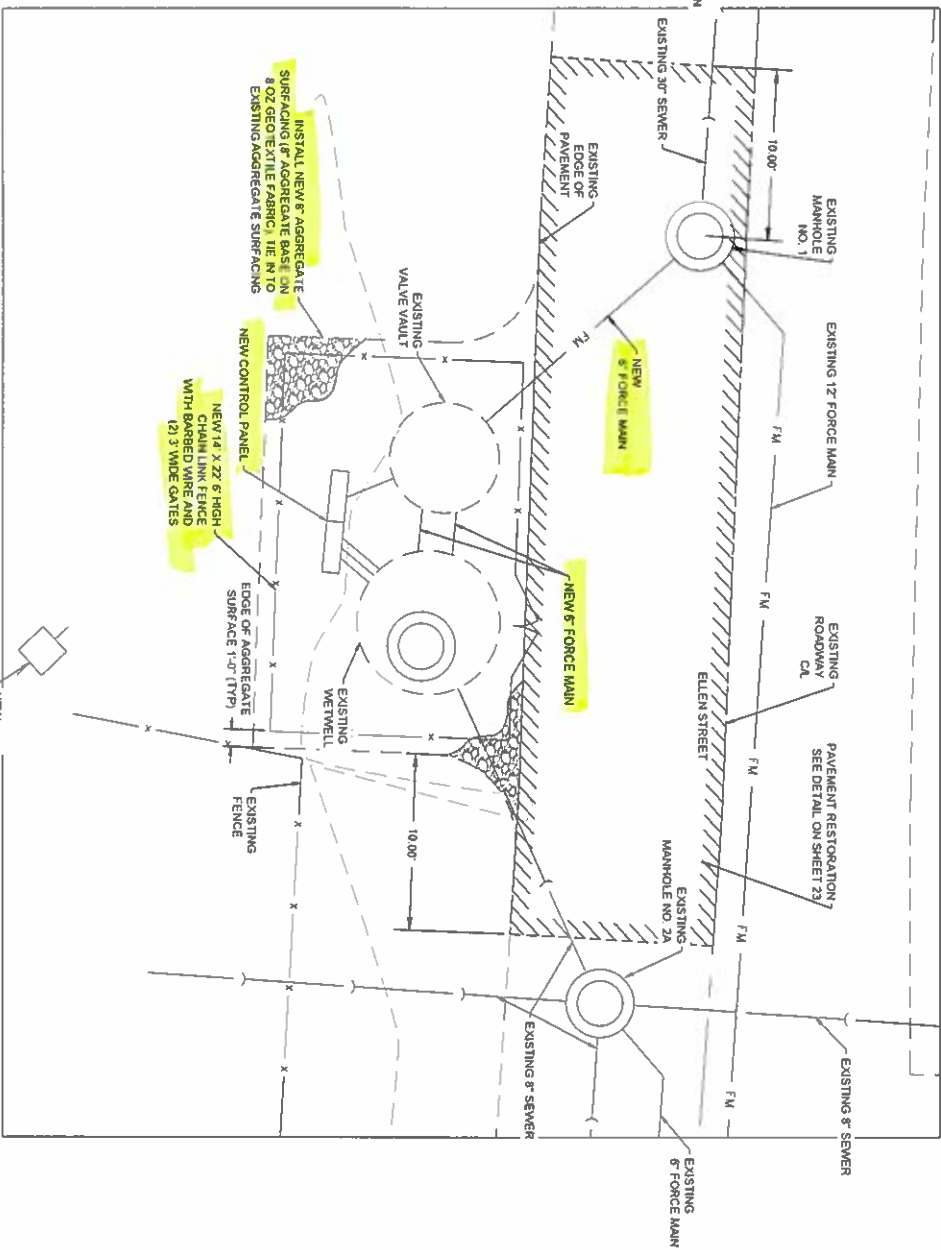
**ELLEN & RICHARD
SITE PLANS**

28-10

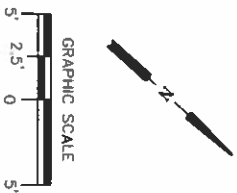
1. EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
2. ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
3. SEE LIFT STATION REHABILITATION DETAILS ON SHEET 22.

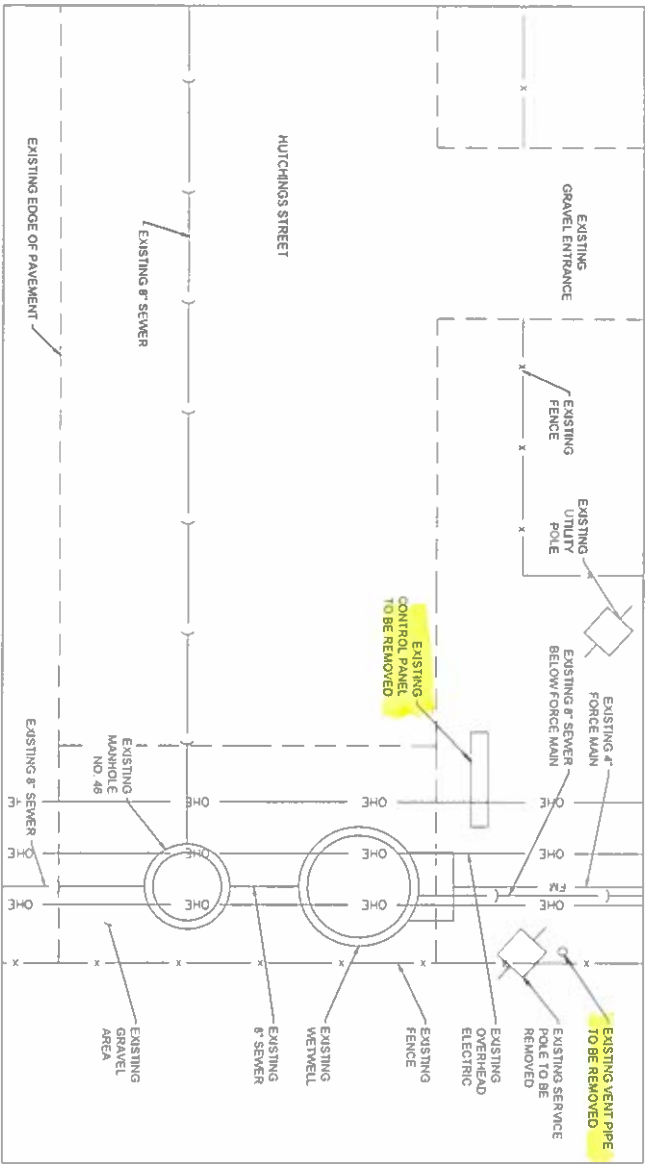


**EXISTING
SITE PLAN**
SCALE 1"=5'



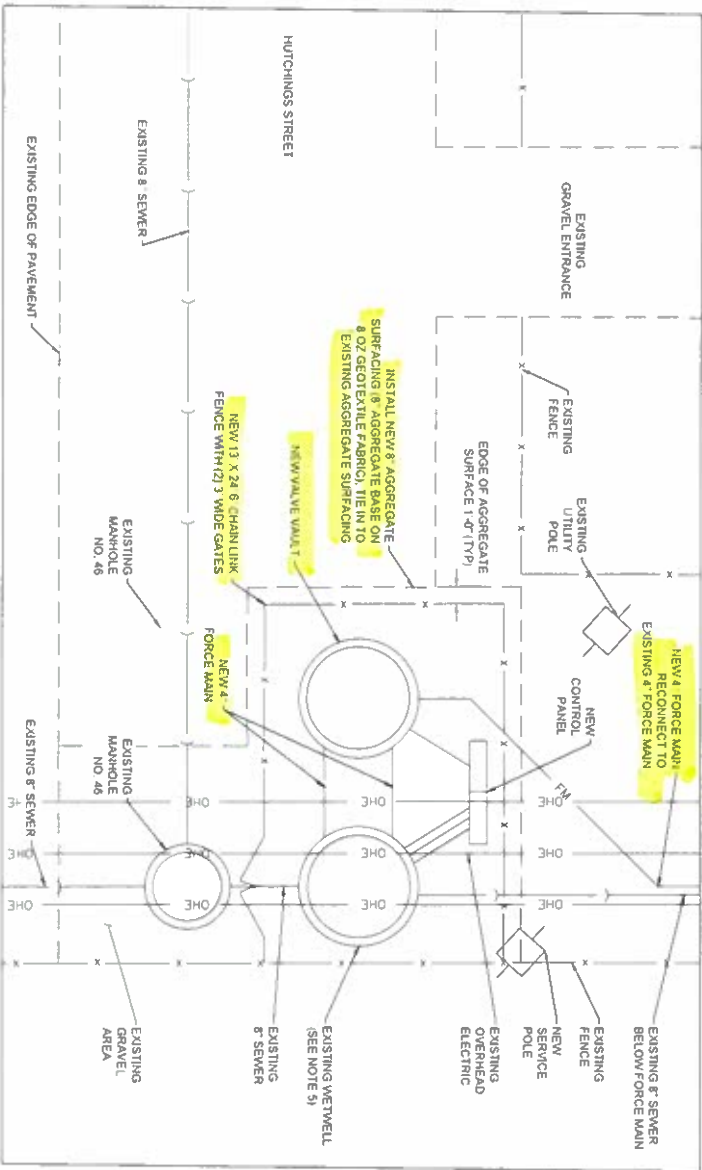
**PROPOSED
SITE PLAN**
SCALE 1"=5'





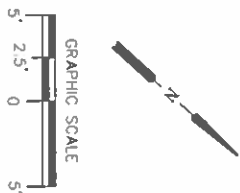
EXISTING
SITE PLAN

SCALE 1"=5'



PROPOSED
SITE PLAN

SCALE 1"=5'



GENERAL NOTES:

- EXISTING FENCES TO BE REMOVED & REINSTALLED WHEN NECESSARY.
- ALL EXISTING TREES TO BE PROTECTED WHEN POSSIBLE.
- SEE LIFT STATION REHABILITATION DETAILS ON SHEET 22.
- EXISTING OVERFLOW PIPE IN WETWELL SHALL REMAIN
- CLEAR EXISTING VEGETATION WITHIN 5' OF NEW FENCE
- LOCATION OF EXISTING UTILITY POLE, SERVICE POLE, CONTROL PANEL, SEWER, AND OVERHEAD ELECTRIC ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND ADJUST ACCORDINGLY.

HR
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SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

MK.	DATE	DESCRIPTION
	08/2024	

PROJECT NO. 860-0883
DESIGN: DRAWN: CHECK:
TAS JJD LS
HUTCHINGS STREET
SITE PLANS

NO. 5 BANK SQUARE
EAST ST. LOUIS, IL
PH 618.398.0890
www.hursi-rosche.com

SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

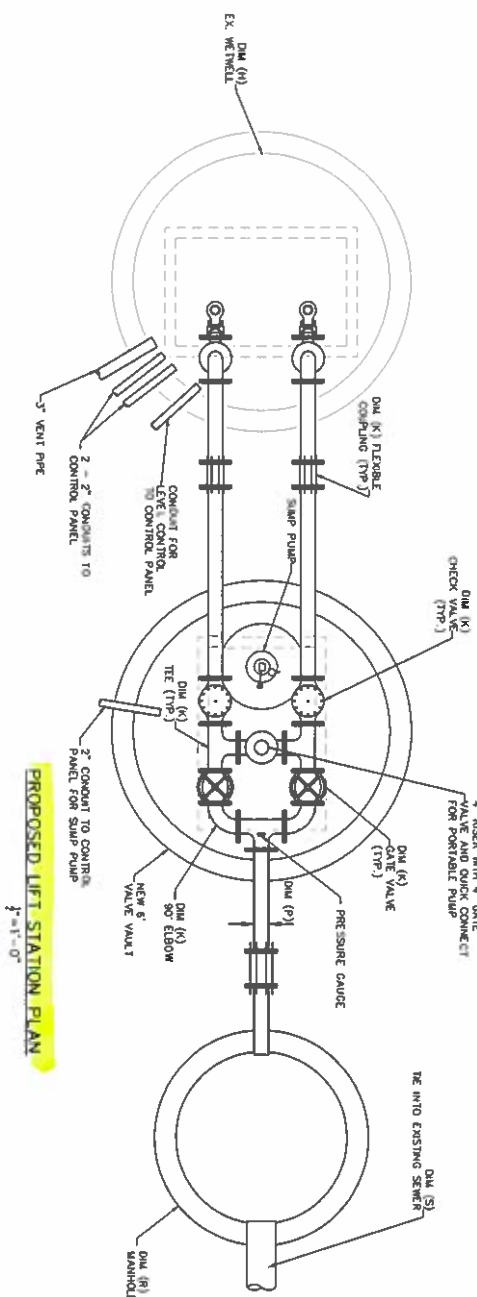
LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

DATE	DESCRIPTION	DATE	DESCRIPTION
08/2024			

PROJECT NO: 860-0683

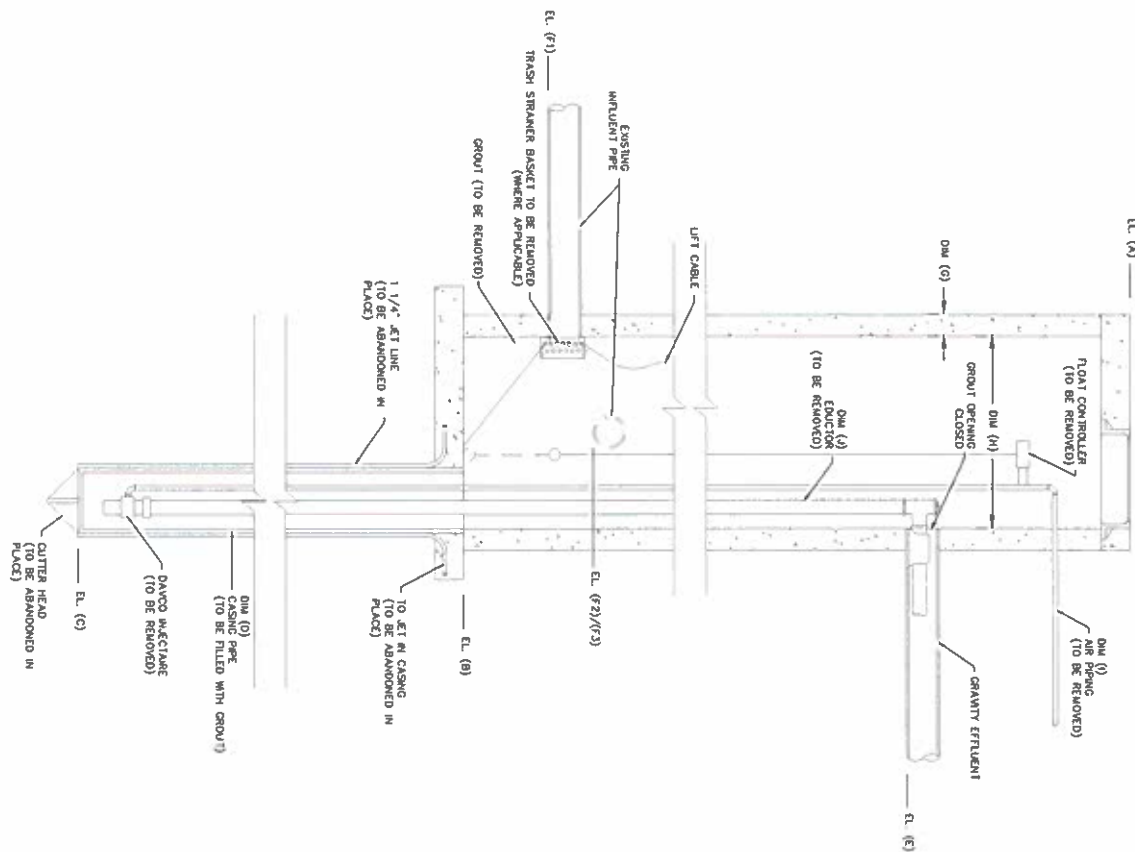
DESIGN:	DRAWN:	CHECK:
TAS	JLD	LS

**SEWAGE EDUCATOR
LIFT STATION
REHABILITATION
DETAILS**



PROPOSED LIFT STATION PLAN

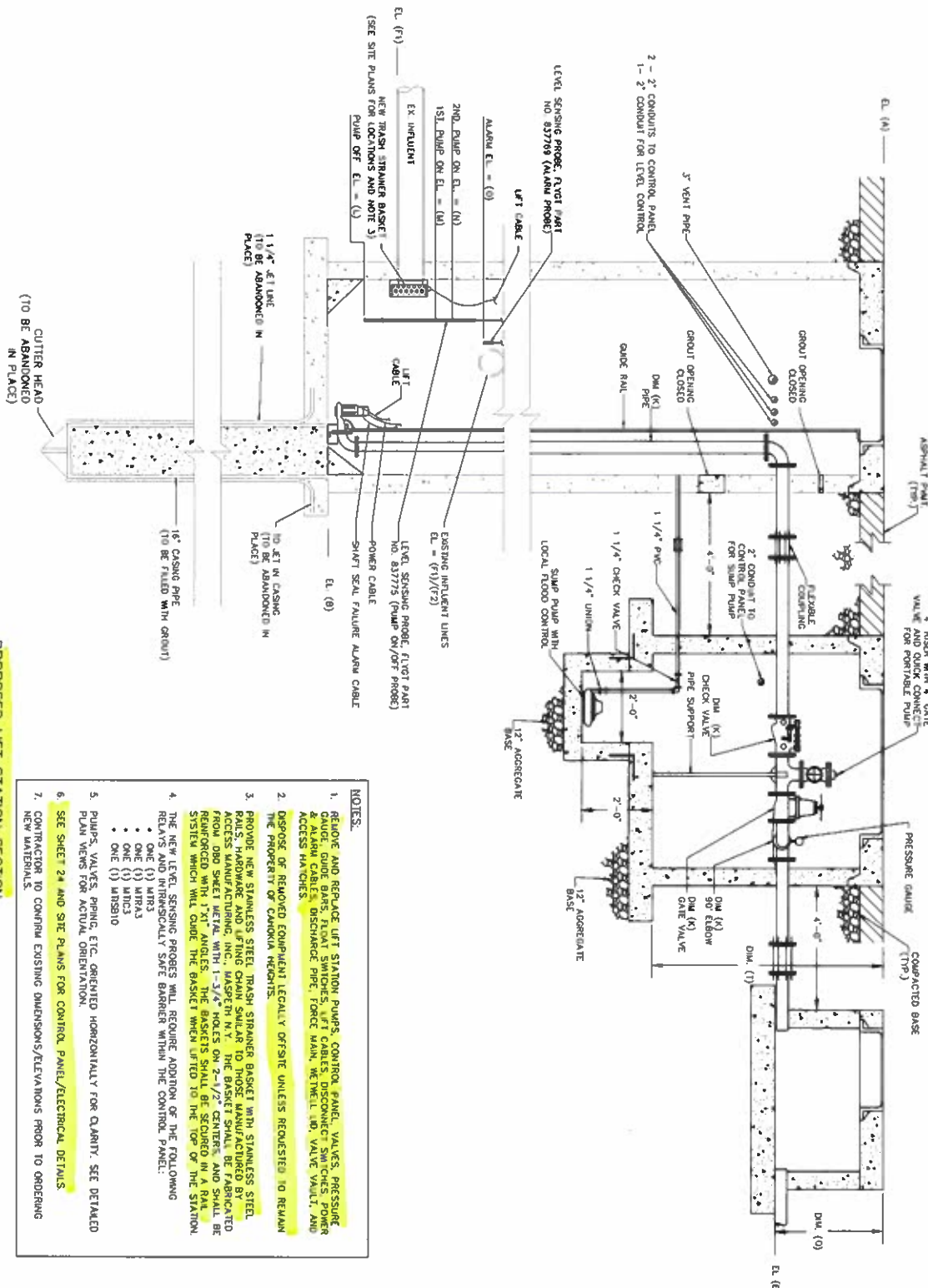
NOTE: REMOVE EXISTING WETWELL TOP AND REPLACE WITH NEW TOP AND HATCH. THE CONTRACTOR SHALL PROVIDE A WATERTIGHT SEAL



EXISTING WETWELL SECTION
 $\frac{1}{2}'' = 1' - 0''$

[illegible]

SEWAGE EDUCATOR LIFT STATION REHABILITATION SCHEDULE



PROPOSED LIFT STATION SECTION
 $\frac{1}{2}"=1'-0"$

- NOTES:
1. REMOVE AND REPLACE LIFT STATION PUMPS, CONTROL PANEL, VALVES, PRESSURE GAUGE, GUIDE RAILS, FLOAT SWITCHES, LIFT CABLES, DISCONNECT SWITCHES, POWER CABLES, AND VALVE. DISCHARGE PRESSURE, FORCE MAIN, WELL, ID, VALVE VAULT AND DISCHARGE HATCHES.
2. DEPOSE OF REMOVED COMPONENT LEGALLY OFFSITE UNLESS REQUESTED TO REMAIN THE PROPERTY OF CAMBRIA PROVINCE.
3. PROVIDE NEW STAINLESS STEEL, TRASH SPINNER BASKET WITH STAINLESS STEEL RAILS, HARDWARE AND LIFTING CHAIN SIMILAR TO THOSE MANUFACTURED BY ASSOCIATED MANUFACTURING, INC., MASEPTE N.Y. THE BASKET SHALL BE FABRICATED FROM 304 SAEEL SHEET WITH 1-3/4" HOLES ON 2-1/2" CENTER, AND SHALL BE 24" DIAMETER. LIFT CHAIN SHALL BE 1/2" DIAMETER. THE BASKET SHALL BE SECURED WITH A CHAIN LOCK WHICH WILL HOLD THE BASKET WHEN LIFTED TO THE TOP OF THE STATION.
4. THE NEW LEVEL SENSING PROBES WILL REQUIRE ADDITION OF THE FOLLOWING RELOCATED COMPONENTS: A. DISCONNECTLY SWE BANNER WITHIN THE CONTROL PANEL:
 - ONE (1) WIRS
 - ONE (1) WIRS
 - ONE (1) WIRS
 - ONE (1) WIRS
 - ONE (1) WIRS
 - ONE (1) WIRS
5. PUMPS, VALVES, PIPING, ETC. ORIENTED HORIZONTALLY FOR CLARITY. SEE DETAILED PLANS VIEWS FOR ACTUAL ORIENTATION.
6. SEE SHEET 24 AND SITE PLANS FOR CONTROL PANEL/ELECTRICAL DETAILS.
7. CONSTRUCTION TO CONFIRM EXISTING DIMENSIONS/ELEVATIONS PRIOR TO ORDERING NEW MATERIALS.

SIGNATURE	
DATE	
LICENSE EXPIRES	

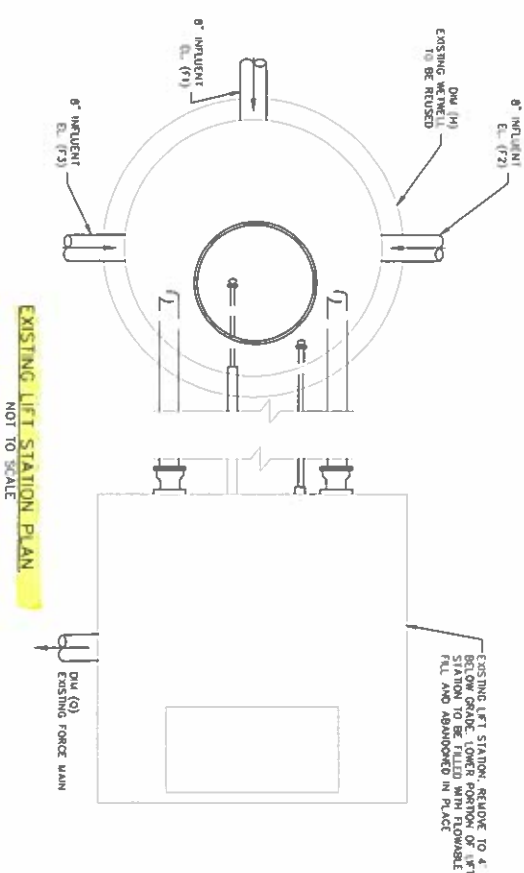
LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

MK	DATE	DESCRIPTION
	08/2024	

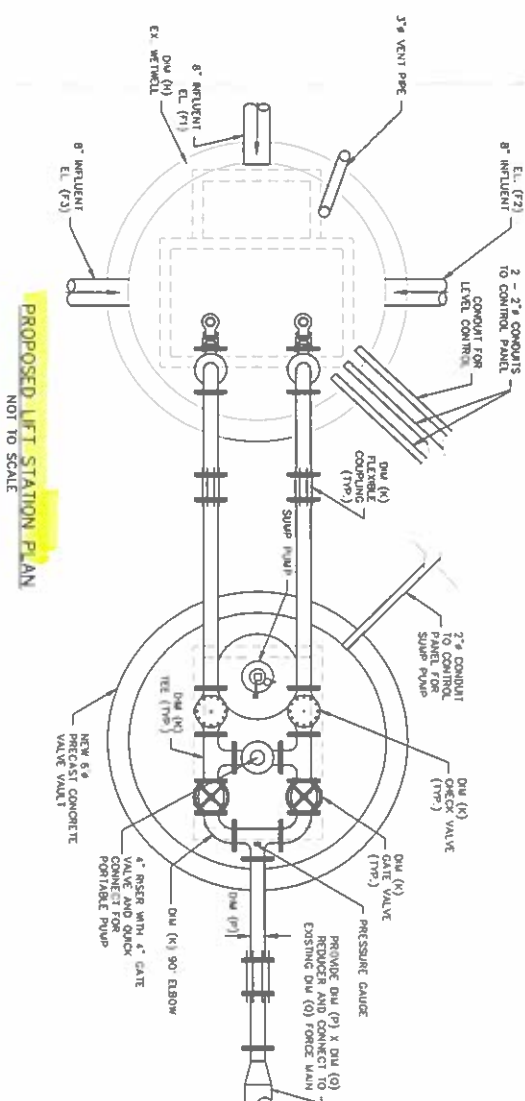
PROJECT NO. 860-0683

DESIGN	DRAWN	CHECKED
TAS	JJD	LS

SUCTION LIFT LIFT STATION REHABILITATION DETAILS



EXISTING LIFT STATION PLAN
NOT TO SCALE

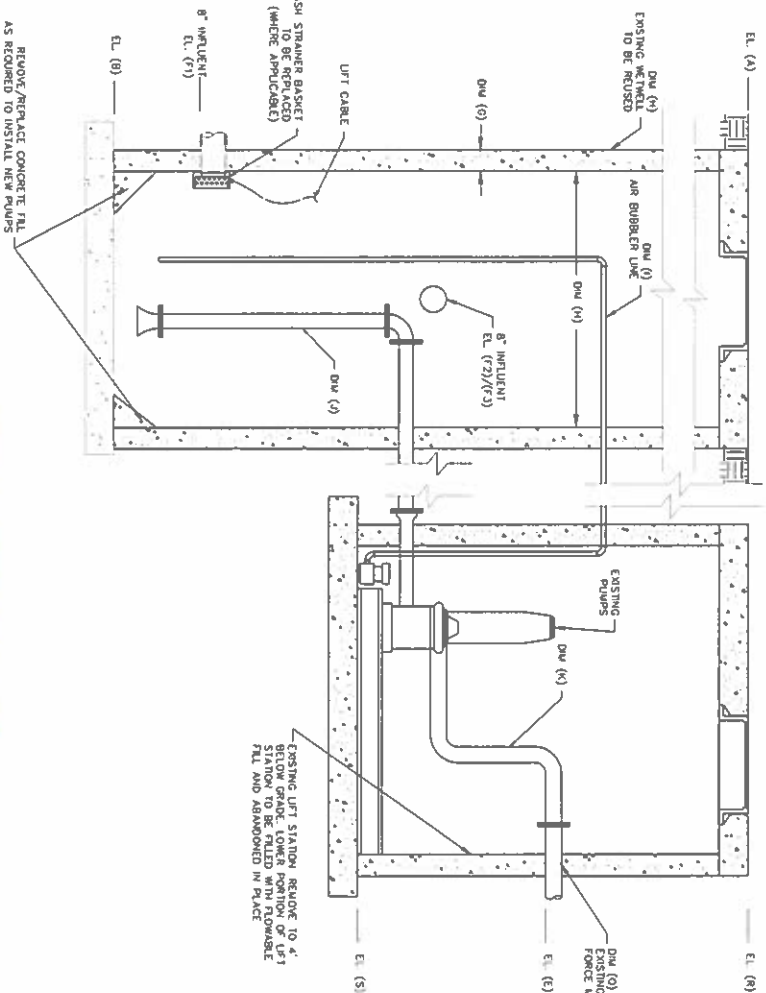


PROPOSED LIFT STATION PLAN
NOT TO SCALE

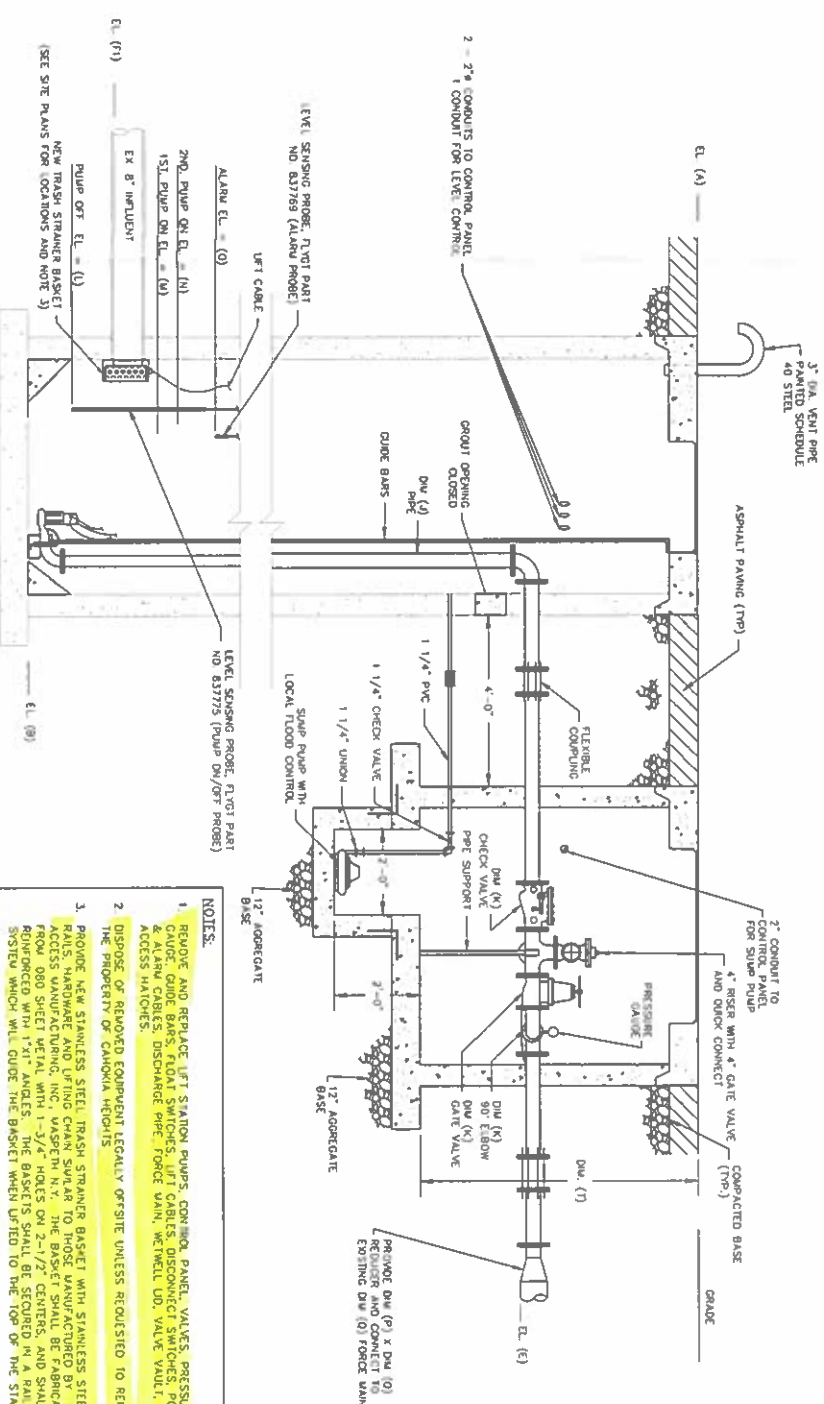
	LEFT STATION												RIGHT STATION													
	GPM	TDR	H _P	ELEV A	ELEV B	ELEV C	D	ELEV E	F1	F2	F3	DAM	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
WALLER PUMP BOX	100	13.4°	5.5	419.83	407.65	-	-	412.45	407.84	408.93	-	-	5'	6'-0"	3'-4"	4'	4	4	4	4	4	4'	4'	4	4	4
LAKE HOMES PILL BOX	100	13.4°	5.5	419.83	404.37	-	-	412.45	407.84	408.93	-	-	5'	6'-0"	3'-4"	4'	4	4	4	4	4	4'	4'	4	4	4

PSR 07 und PSR 08

Suction Lift Lift Station Rehabilitation Scouting



EXISTING LIFT STATION SECTION



PROPOSED LIFT STATION SECTION

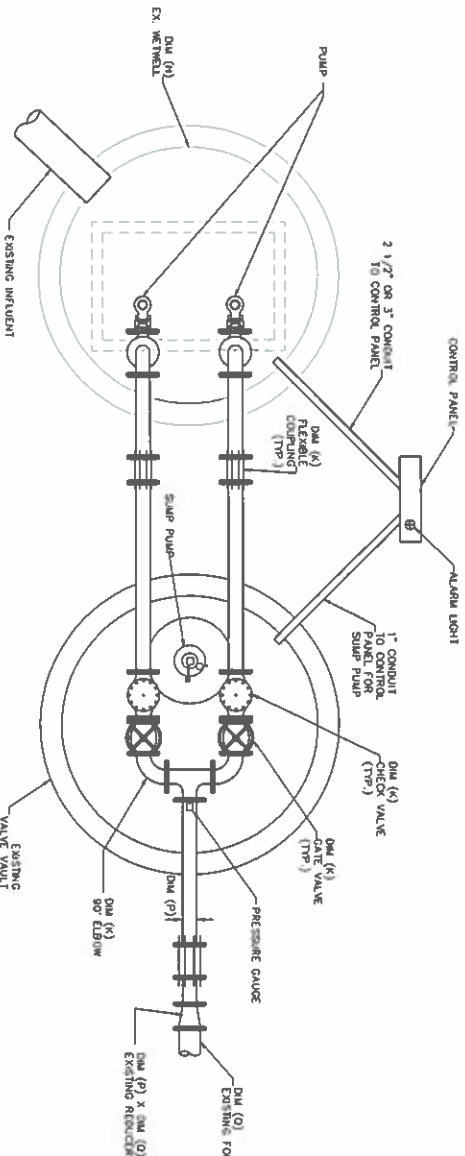
1. REMOVE AND REPLACE LIFT STATION PUMPS, CONTROL PANEL, VALVES, PRESSURE GAUGE, GUIDE BARS, FLOAT SWITCHES, LIFT CABLES, DISCONNECT SWITCHES, POWER & ALARM CABLES, DISCHARGE PIPE, FORCE MAIN, WEIRWELL DO, VALVE VAULT, AND ACCESS HAIRCOPS.
2. THE PROPERTY OF CAMBIOA HEIGHTS
3. PROVIDE NEW STAINLESS STEEL TRASH STRAINER BASKET WITH STAINLESS STEEL RAILS, HARDWARE AND LIFTING CHAIN SIMILAR TO THOSE MANUFACTURED BY ARLIS MANUFACTURING, INC., WASHINGTON N.Y. THE BASKET SHALL BE FABRICATED FROM 600 SHEET METAL WITH 1-3/4" HOLES ON 2-1/2" CENTERS, AND SHALL BE 18" DIAMETER. THE BASKET SHALL BE ATTACHED TO THE TOP OF THE STANDOFF. THE STANDOFF WILL COVER THE BASIN WHEN LIFTED TO THE TOP OF THE STANDOFF.
4. THE NEW LEVEL SURGING PROBE WILL REQUIRE ADDITION OF THE FOLLOWING RELAYS (ONE (1) WIRE):
 - ONE (1) WIR#3
 - ONE (1) WIR#3
 - ONE (1) WIR#3
 - ONE (1) WIR#10
5. PLUMB VALVES, PIPING, ETC. ORIENTED HORIZONTALLY FOR CLARITY. SEE DELAYED DRAWINGS FOR ACTUAL ORIENTATION.
6. SEE SHEET #24 AND SITE PLANS FOR CONTROL PANEL/ELECTRICAL DETAILS.
7. CONTRACTOR TO CONFORM EXISTING DIMENSIONS/ELEVATIONS PRIOR TO ORDERING NEW MATERIALS.

SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

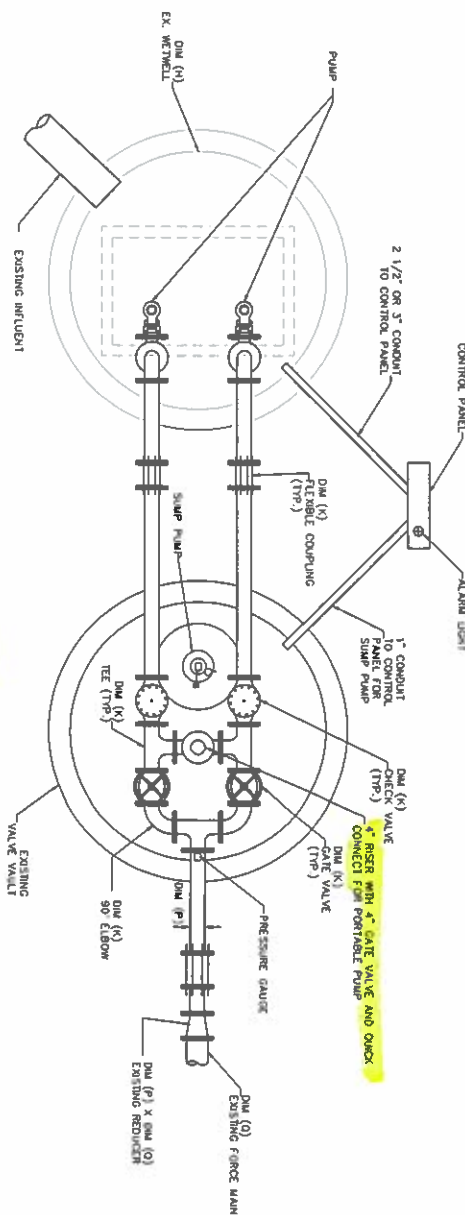
LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

NO.	DATE	DESCRIPTION
1	08/20/24	

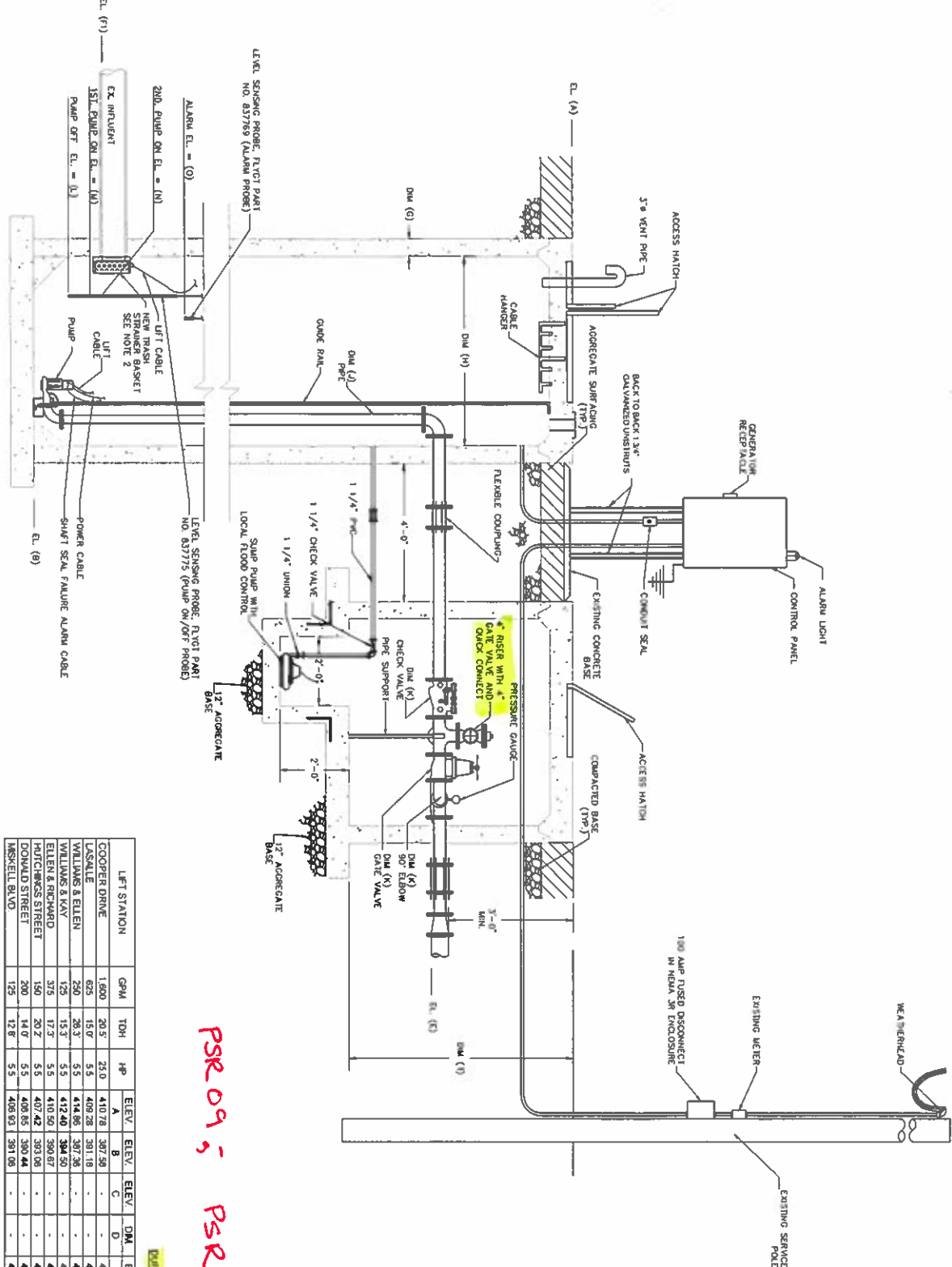
PROJECT NO: 860-0883
DESIGN / DRAWN / CHECK
TAS / JLD / LS
SUBMERSIBLE DUPLEX
LIFT STATION
REHABILITATION
DETAILS



EXISTING LIFT STATION PLAN
1"=1'-0"



PROPOSED LIFT STATION PLAN
1"=1'-0"



LIFT STATION DETAILS
1"=1'-0"

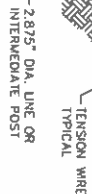
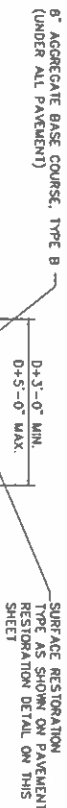
- NOTES:
- REMOVE AND REPLACE LIFT STATION PUMPS, CONTROL PANEL, VALVES, PRESSURE GAUGE, GUIDE RAILS, FLOAT SWITCHES, LIFT CABLES, DISCONNECT SWITCHES, POWER & SIGNAL CABLES, DISCHARGE PIPE, FORCE MAIN, WETWELL IDO, VALVE VAULT, AND ACCESS HATCHES.
 - DISPOSE OF REMOVED EQUIPMENT LEGALLY OFFSITE UNLESS REQUESTED TO REMAIN THE PROPERTY OF CAHOKIA HEIGHTS.
 - PROVIDE NEW STAINLESS STEEL TRASH STRAINER BASKET WITH STAINLESS STEEL RAILS, HARDWARE AND LIFTING CHAIN SIMILAR TO THOSE MANUFACTURED BY THE ORIGINAL MANUFACTURER. THE BASKET CENTERS SHALL BE LOCATED FROM OLD SHEET METAL WITH 1 1/2" ANGLES OR 3/4" X 2" CENTERS. THE BASKET SHALL BE REINFORCED WITH 1"x1" ANGLES. THE BASKET SHALL BE SECURED IN A RAIL SYSTEM WHICH WILL GUIDE THE BASKET WHEN LIFTED TO THE TOP OF THE STATION.
 - THE NEW LEVEL SENSING PROBES WILL REQUIRE ADDITION OF THE FOLLOWING:
 - ONE (1) WTB3
 - ONE (1) WTB3
 - ONE (1) WTB3
 - ONE (1) WTB3
 - PUMPS, VALVES, PIPING, ETC. ORIENTED HORIZONTALLY FOR CLARITY. SEE DETAILED PLAN VIEWS FOR ACTUAL ORIENTATION.
 - SEE SHEET 24 AND SITE PLANS FOR CONTROL PANEL/ELECTRICAL DETAILS.
 - CONTRACTOR TO CONFIRM EXISTING DIMENSIONS/ELEVATIONS PRIOR TO ORDERING NEW MATERIALS.

LIFT STATION	GM	TDH	HP	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E	ELEV. F1	ELEV. F2	ELEV. F3	ELEV. G	ELEV. H	ELEV. I	ELEV. J	ELEV. K	ELEV. L	ELEV. M	ELEV. N	ELEV. O	ELEV. P	ELEV. Q	ELEV. R	ELEV. S	ELEV. T
COOPER DRIVE	1,600	20.5'	25.0	410.78	397.50	-	-	405.65	390.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LASALLE	625	15.0'	5.5	409.28	391.18	-	-	405.69	395.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WILLIAMS & ELLEN	250	28.3'	5.5	414.86	397.36	-	-	410.45	394.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WILLIAMS & MAY	125	15.3'	5.5	412.40	394.50	-	-	408.00	398.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELLEN & RICHARD	375	17.3'	5.5	410.50	390.67	-	-	406.88	401.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HUTCHINSON STREET	150	20.2'	5.5	407.42	393.06	-	-	404.08	395.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOWD STREET	200	14.0'	5.5	406.65	390.44	-	-	402.66	393.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSKELL BLVD	125	12.8'	5.5	406.93	391.06	-	-	402.91	394.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

EXISTING LIFT STATION REHABILITATION DETAILS

PSR 09, PSR 14, PSR 12, PSR 13, PSR 10, PSR 11, PSR 15 + PSR 16

MIXTURE TABLE



WE TWELL / VALVE VAULT

1. CONTRACTOR TO CONFIRM EXISTING WELL AND VALVE VAULT DIMENSIONS PRIOR TO FABRICATING NEW LIDS.

PROJECT NO: 860-0683	DESIGN	DRAWN	CHECK
----------------------	--------	-------	-------

CVL	0.00	0.00
-----	------	------

DETAILS

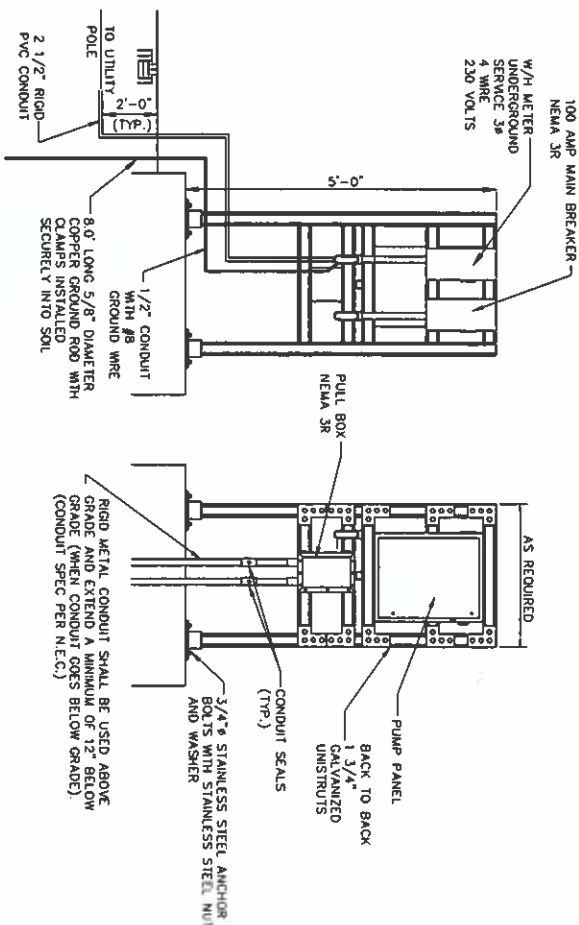
SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

Diagram illustrating the connections for the generator pad:

- ALARM LIGHT
- CONTROL PANEL
- GENERATOR RECEPTACLE
- BACK TO BACK 1 3/4" GALVANIZED UNISTRUTS
- 6" x 10" x 6" THICK CONCRETE PAD OR MIN 2" x 4" x 3" THICK CONCRETE BASE
- SEE SITE PLANS FOR TYPE AND LOCATION

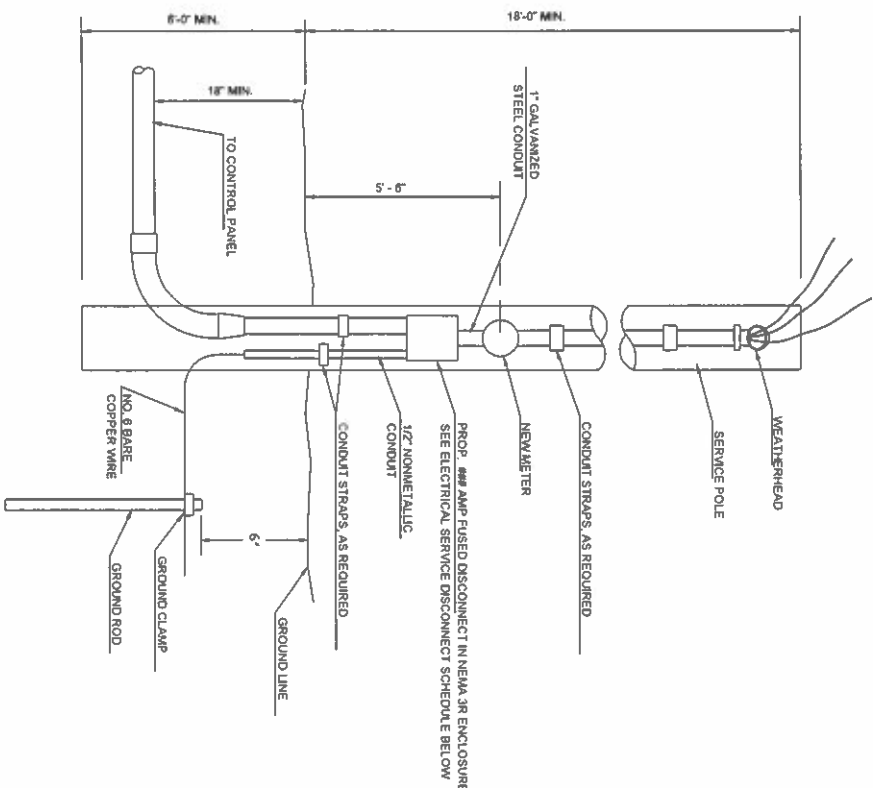
CONTROL PANEL DETAIL
NOT TO SCALE

NOT TO SCALE



CONTROL PANEL AND ELECTRICAL RACK DETAIL

NOT TO SCALE



SERVICE INSTALLATION

NOT TO SCALE

UPGRADE	EXISTING	DISCONNECT	UPGRADED (FUSED)	EXISTING FUSED	UPGRADE
240 VAC, 1 PHASE	240 VAC, 1 PHASE	100 AMP	240 VAC, 1 PHASE	60 AMP	BEACHLAND
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	60 AMP	SPRIG LUNDA
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	71ST & AMES
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	73RD STREET
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	73RD & OAKLAND
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	73RD & PIERRE
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	WATLE PIERRE
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	200 AMP	WATLE HOLMES' PILL BOX
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	200 AMP	LAKE DRIVE, PILL BOX
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	COOPER DRIVE
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	LA SALLE
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	WATLINS & EILEEN
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	WATLINS & KAY
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	EILEEN & RICHARD
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	HITCHCOCK STREET
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	OSWELL & BAY
240 VAC, 3 PHASE	240 VAC, 3 PHASE	100 AMP	240 VAC, 3 PHASE	100 AMP	DAVID & J. VU

ELECTRICAL SERVICE DISCONNECT SCHEDULE

NOT TO SCALE

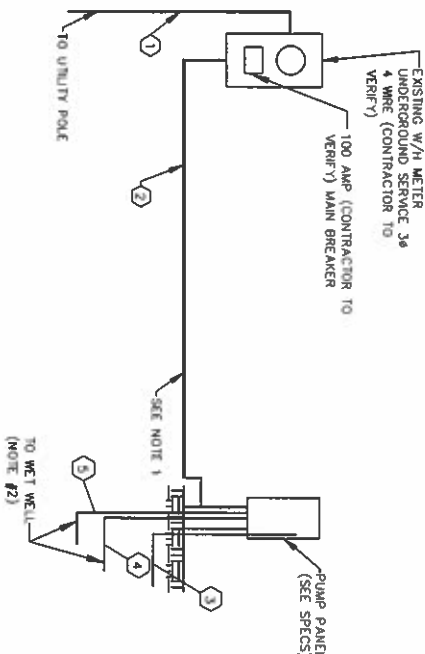
- ① WRE AND CONDUIT LEGEND:
4-1/0 WRES THIN TYPE
IN 2" CONDUIT (EXISTING).
- ② 4-1/0 WRES THIN TYPE
IN 2 1/2" CONDUIT
- ③ WRE AND CONDUIT AS REQUIRED BY SUMMIT
PUMP MANUFACTURER.
- ④ WRE AND CONDUIT SIZE AS REQUIRED
BY PUMP MANUFACTURER (ONE SET PER
PUMP)
- ⑤ WRE AND CONDUIT SIZE AS REQUIRED
BY LEVEL SENSOR MANUFACTURER

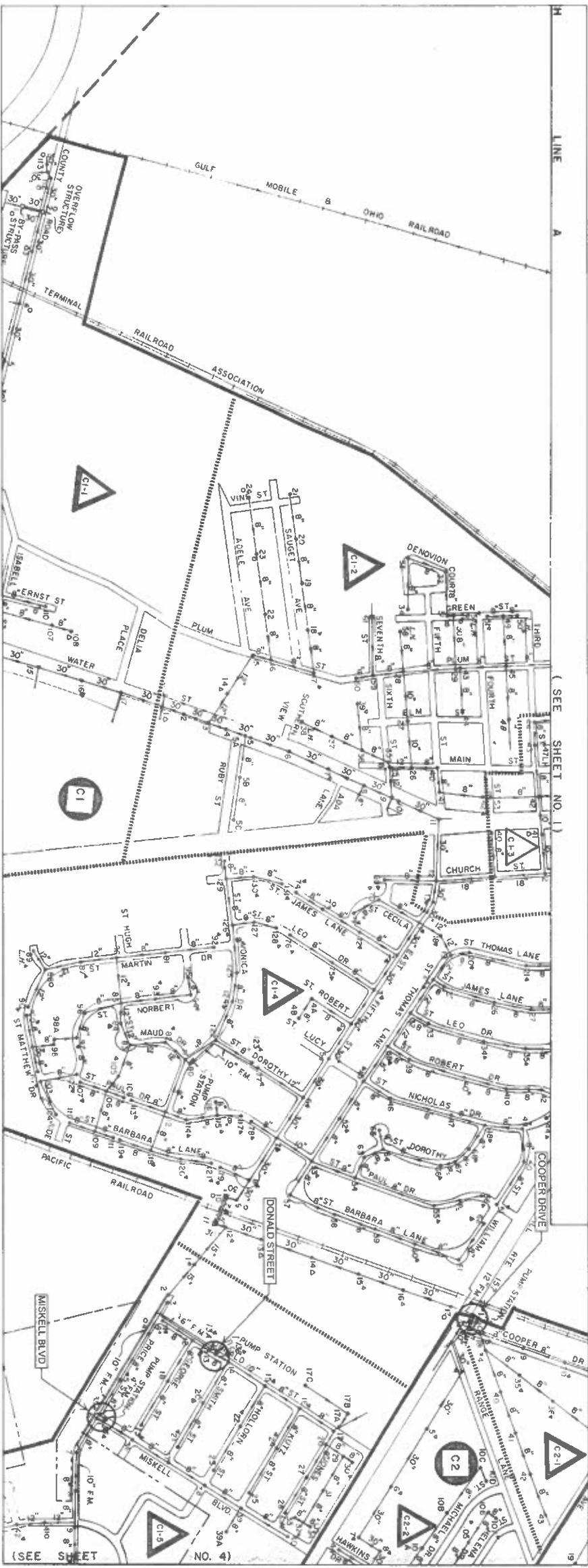
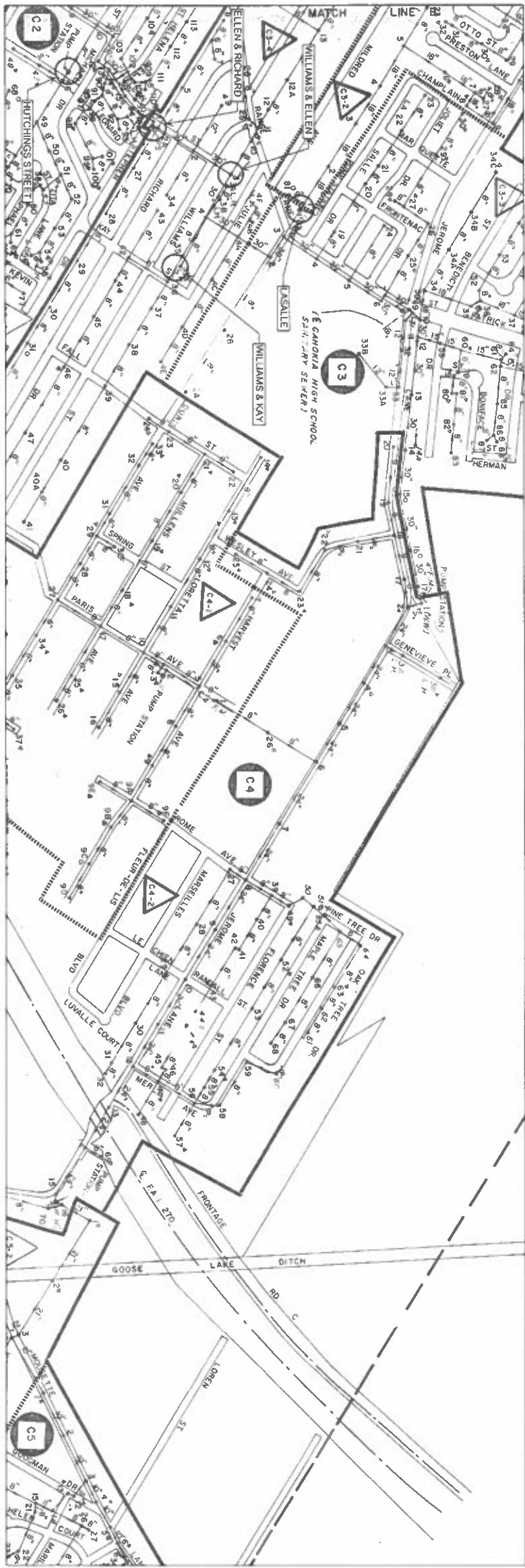
NOTES:

1. WIRE SHALL BE USED ABOVE GRADE AND EXTEND A MINIMUM OF 12" BELOW GRADE (WHEN CONDUIT GOES BELOW GRADE).
2. CONTRACTOR SHALL PROVIDE A J-BOX JUST OUTSIDE OF THE WET WELL TO BE USED AS A PULL BOX FOR THE NOTED WIRES. CONTRACTOR SHALL SUPPLY A CONDUIT SEAL ON THE RUN TO THE CONTROL PANEL.

PUMP WIRING SCHEMATIC

NOT TO SCALE





HR

Hurst-Rosche, Inc.

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www.hurst-rosche.com

HILLSBORO, IL
MARION, IL
SPRINGFIELD, IL
ARNOLD, MO
NASHVILLE, TN

SIGNATURE _____
DATE _____
LICENSE EXPIRES _____

LIFT STATION REHABILITATION - 16 LOCATIONS
CITY OF CAHOKIA HEIGHTS
ST. CLAIR COUNTY, ILLINOIS 62206

MK	DATE	DESCRIPTION
08/20/24		
PROJECT NO. 860-0863		
DESIGN/ DRAWN/ CHECK/		
TAS/ LD/ LS		
TRIBUTARY SEWER		
MAPS (SOUTH)		