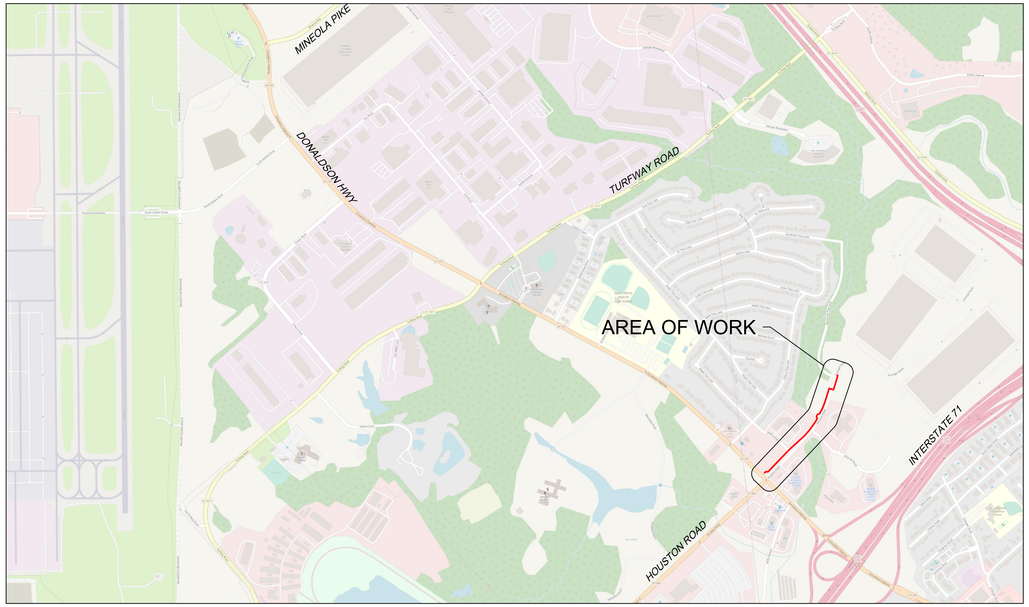
COUNTY OF	ITEM NO.	SHEET NO.
KENTON	06-8916-00	U22



VICINITY MAP
ERLANGER, KY. 41018

NOTE: LATITUDE/LONGITUDE TO BE VERIFIED BY AS-BUILT SURVEY.

DRAWING INDEX

DRAWING NUMBER	DRAWING TITLE	SHEET NO.	REV.
PNG-G-1	COVER SHEET	1	0
PNG-G-2	SIGN OFF SHEET	2	0
PNG-G-3	BILL OF MATERIALS	3	0
PNG-G-4	PROJECT LAYOUT	4	0
PNG-C-1	ALIGNMENT SHEET STA 0+00 TO STA 6+00	5	0
PNG-C-2	ALIGNMENT SHEET STA 6+00 TO STA 13+00	6	0
PNG-C-3	ALIGNMENT SHEET STA 13+00 TO STA 17+72	7	0
PNG-C-4	LINE DETAILS	8	0

SERVICES TO BE INSTALLED

W/O#	SERVICE ID	SERVICE SECTION	SERVICE ADDRESS	DATE INSTALLED	OWNERSHIP DATE	STATUS	ACTUAL LENGTH (')	NOMINAL DIAMETER	MATERIAL	COMMENTS
	513853	M-C	630 VIOX DR	12/08/1999		EXISTING	38'	3	PLASTIC	USE BOM #'s 2, 101, 301, AND 303

GENERAL NOTES

1. INSTALLER SHALL FURNISH ALL MATERIALS NOT PROVIDED BY THE COMPANY (UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS) INCLUDING EQUIPMENT TRANSPORTATION AND SERVICES, AND PERFORM ALL NECESSARY WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREINAFTER.
2. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO VERIFY ALL DIMENSIONS GIVEN ON THE DRAWINGS. ANY ITEM IN QUESTION SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO PROCEEDING WITH THE WORK.
3. INSTALLER SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SURROUNDING AREAS.
4. ALL BELOWGROUND WELDS SHALL BE COATED PER PERTINENT DUKE NATURAL GAS BUSINESS UNIT (NGBU) DESIGN AND CONSTRUCTION STANDARDS.
5. ALL ABOVEGROUND PIPING TO BE BLASTED TO CORRECT SOCIETY FOR PROTECTIVE COATINGS (SSPC) SURFACE PROFILE. PAINT SYSTEM TO BE UTILIZED SHALL BE PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS.
6. UPON BACKFILLING IN AREAS OF ROCK, BURIED PIPE SHALL HAVE 6" OF SAND PAD FILL PLACED AROUND THE PIPE'S CIRCUMFERENCE.
7. PRESSURE TESTING SHALL MEET THE REQUIREMENTS OF THE DUKE NGBU'S PRESSURE TESTING STANDARD, PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS.
8. INSTALLER SHALL DEWATER ALL HYDROSTATICALLY TESTED PIPING, USING CLEANING PIGS AS REQUIRED, AND DRY TO A DEWPOINT OF -40 °F PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS.

CONSTRUCTION NOTES

1. EXISTING OVERHEAD AND BELOWGROUND FACILITIES MAY BE IN THE WORK AREA VICINITY. INSTALLER IS RESPONSIBLE FOR HAVING SUCH FACILITIES LOCATED AND IS RESPONSIBLE FOR MAINTENANCE AND PRESERVATION OF THESE FACILITIES.
2. PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS, INSTALLER IS REQUIRED TO CALL 811 FOR UTILITY LOCATES A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF WORK. NO EXTRA COMPENSATION WILL BE ALLOWED FOR DELAYS FROM ANY WORK PROVIDED BY OTHER UTILITIES.
3. IF EXISTING UTILITIES OF ANY TYPE ARE ENCOUNTERED IN THE FIELD AND DEEMED TO BE IN CONFLICT WITH INSTALLATION OF FACILITIES, INSTALLER SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
4. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, INSTALLER SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR PRIVATE DRAINS OR SEWERS. RESTORATION OF THESE FACILITIES IS TO BE PERFORMED ONCE CONSTRUCTION IS COMPLETE AND ARE CONSIDERED INCIDENTAL COSTS OF THE PROJECT.
5. ALL DRAWING MEASUREMENTS ARE TO BE TAKEN FROM EXISTING GRADE. FINAL GRADE SHALL BE MATCHED TO SURROUNDING GRADE AS PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS.
6. INSTALLER IS TO REMAIN WITHIN CONSTRUCTION WORKING LIMITS. ACCESS TO AREAS OUTSIDE WORKING LIMITS MUST BE COORDINATED WITH THE OWNER OR DUKE NGBU PROJECT MANAGER.
7. ALL EXCESS EXCAVATION, CONSTRUCTION DEMOLITION DEBRIS AND UNSUITABLE MATERIALS THAT DO NOT CONTAIN ASBESTOS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
8. STANDARD SPECIFICATIONS REFERENCED ON THIS SHEET AND CONSTRUCTION PLANS ARE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED TO BE A PART OF THIS CONTRACT.
9. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY DUKE NGBU OR COMPANY REPRESENTATIVE. FINAL PAYMENT SHALL BE MADE AFTER ALL OF THE INSTALLER'S WORK HAS BEEN ACCEPTED AND APPROVED AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
10. DURING CONSTRUCTION, ALL LOOSE MATERIAL THAT ARE DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, SHALL BE REMOVED AT THE END OF EACH WORK DAY.
11. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE EXTENDED TO OUTLET INTO AN EXISTING DRAINAGE WAY. A RECORD OF ALL FIELD TILE FOR ONSITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE INSTALLER AND TURNED OVER TO THE PROJECT MANAGER UPON COMPLETION OF THE PROJECT.
12. INSTALLER IS REQUIRED TO MAINTAIN A SET OF ISSUED FOR CONSTRUCTION DRAWINGS AND ALL PERMITS AT THE JOB SITE. ANY MODIFICATIONS OR ALTERATIONS TO THE PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE PROJECT MANAGER.
13. INSTALLER IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. INSTALLER IS RESPONSIBLE FOR THE CONSTRUCTION METHODS AND TECHNIQUES, SEQUENCES, TIME OF PERFORMANCE ALL SAFETY PRECAUTIONS.
14. MINIMUM DEPTH OF BURIAL SHALL BE PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS.
15. ALL PIPELINES BEING CROSSED ARE TO BE PROTECTED WITH A MINIMUM OF (3) 4 FEET X 18 FEET WOODEN MATS.
16. PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS, FOR OPEN DITCH EXCAVATION, A MINIMUM OF TWO FEET OF SEPARATION SHALL BE MAINTAINED BETWEEN ALL CROSSING STRUCTURES. SEPARATION BETWEEN CROSSING STRUCTURES AND PIPELINES THAT ARE INSTALLED VIA DIRECTIONAL DRILLING METHODS IS AT THE DISCRETION OF ENGINEERING.
17. DURING BACKFILLING, A SIX INCH CROWN SHALL BE PLACED ON ALL DISTURBED AREAS. COMPACTION REQUIREMENTS SHALL BE PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS.
18. BOLTS FOR FLANGES TO BE TORQUED PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS.

CIVIL AND STRUCTURAL NOTES

1. ADDITIONAL EXCAVATIONS BELOW FOOTINGS MAY BE NECESSARY TO REACH UNDISTURBED SOIL. SHOULD THIS OCCUR, THE EXCAVATION SHALL BE BROUGHT TO THE BOTTOM OF THE FOOTING ELEVATION WITH COMPACTED SAND FILL MEETING THE REQUIREMENTS OF MODIFIED PROCTOR COMPACTION TEST (ASTM D1557) TO 95% IN SIX INCH LIFTS.
2. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 1" X 1" 45° CHAMFER.
3. CONCRETE SHALL BE MIXED AND POURED PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS. TESTING SHALL CONFORM TO ACI 318. INSTALLER TO SUPPLY ALL CONCRETE AND TESTING.
4. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 SPECIFICATION. STEEL REINFORCING BAR SHALL CONFORM TO ASTM A615 GRADE 60 AND WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. TIE WIRE SHALL CONFORM TO ASTM A82.
5. UNSUITABLE OR EXCESS EARTH SPOIL SHALL BE DISPOSED OF AT AN APPROVED WASTE LOCATION. SOIL BEING TRANSPORTED ONTO THE JOB SITE SHALL BE APPROVED BY EITHER THE PROJECT MANAGER OR CONSTRUCTION MANAGER.
6. ROCKSHIELD OR SIMILAR COMPANY APPROVED PRODUCT MUST BE INSTALLED BETWEEN ALL PIPE AND FITTINGS THAT COME INTO CONTACT WITH CONCRETE. A LAYER OF NON ABRASIVE MATERIAL SUCH AS FRP SHALL BE INSTALLED BETWEEN ALL PIPE SUPPORTS AND PIPING.
7. ALL FIELD BENDING OF REBAR SHALL BE DONE COLD.
8. INSTALLER SHALL THOROUGHLY REVIEW IFC DRAWINGS FOR INSTALLATION REQUIREMENTS ON ALL VESSELS OR OTHER COMPONENTS THAT MAY BE SUBJECT TO THERMAL OR VIBRATION EFFECTS, TO ENSURE INSTALLATION OF A SUITABLE SURFACE THAT WILL ACCOMMODATE THESE EFFECTS.
9. UNLESS DIRECTED OTHERWISE, LOADING OF CONCRETE STRUCTURES SHALL BE IN ACCORDANCE WITH FOC-ST-2020.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. INSTALLER IS TO CONSTRUCT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AT THE COMMENCEMENT OF THE PROJECT, PROVIDE MAINTENANCE AND ASSURE EFFECTIVENESS THROUGHOUT THE DURATION OF THE PROJECT.
2. CARE SHALL BE TAKEN TO MINIMIZE DOWNSTREAM SILTATION. RAW BANKS MAY BE SEEDED AND MULCHED TO PREVENT EROSION.
3. ALL SPOILS INCLUDING ORGANIC SOILS, VEGETATION AND DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN SUCH A MANNER AS TO NOT ERODE INTO ANY BODY OF WATER OR WETLAND.
4. SILT FENCING SHALL BE PLACED WHERE NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE WORK AREA.
5. CATCH ALL INLET FILTERS ARE REQUIRED AT ALL SEWER INLETS, GRATES AND MANHOLES FOR SEDIMENT CONTROL.
6. WETLAND AREAS SHALL HAVE SILT FENCING AND ONE LAYER OF STRAW LOG INSTALLED NO CLOSER THAN 50 FEET FROM POINT OF WETLAND DELINEATION.
7. TOPSOIL STOCKPILES SHALL BE LOCATED TO AVOID EROSION OF SAID STOCKPILE ONTO OFFSITE AREAS.
8. ALL ENVIRONMENTAL MEASURES SHALL BE PER PERTINENT DUKE NGBU DESIGN AND CONSTRUCTION STANDARDS.

CONTACT GAS SYSTEMS OPERATIONS SUPERVISOR PRIOR TO STARTING JOB TO VERIFY GAS FLOW

CALL K.U.P.S
48 HOURS BEFORE YOU DIG
1-800-752-6007

CONTRACTOR MUST CALL 811 TWO TO TEN DAYS PRIOR TO EXCAVATION DATE TO HAVE UNDERGROUND UTILITIES MARKED IN THE FIELD.

PROFESSIONAL ENG/ARCH STAMP

*PROPRIETARY & CONFIDENTIAL *ALL RIGHTS RESERVED *DO NOT SCALE THIS DRAWING *USE DIMENSIONS ONLY
DUKE ENERGY & PIEDMONT NATURAL GAS DRAWINGS ARE CONFIDENTIAL *DRAWING IS CURRENT ONLY THROUGH THE LATEST REVISED DATE *TO ENSURE THERE IS NO RISK OF INAPPROPRIATE DISCLOSURE,
ALL PREVIOUS PAPER COPIES OF THIS DRAWING MUST BE DESTROYED IN ACCORDANCE WITH RECORDS & INFO MANAGEMENT (RIM)

NO.	DATE	REVISION(S) DESCRIPTION	DRAFTING/DESIGN	CHECKER/REVIEWER	APPROVING ENGINEER
0	06/08/2023	ISSUED FOR CONSTRUCTION	S.ARAM	A.HUANG	R.ESPOSITO

DESCRIPTION	
AREA CODE	S587
ACCOUNT NUMBER	46798234
PROJECT NUMBER	MX6798234
DWG TYPE	-
STATION ID	N/A

DUKE ENERGY. Piedmont Natural Gas

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46798234
HOUSTON RD
COVER SHEET
ERLANGER, KENTON COUNTY, KY
-

CUSTOMER:
MAP NO. S02W0245, S02W0244
SHEET(S) 1 OF 8 | DWG SCALE NOT TO SCALE
DWG DATE 06/08/2023 | SUPERSEDED -
DRAWING NUMBER: PNG -G-1 | REVISION: 0
DISCIPLINE / RESOURCE CENTER / LINE NUMBER

DESIGN REVIEW OF COMPLETED CONSTRUCTION JOB

SPONSOR _____ DATE _____

FIELD CHANGE REQUEST DOCUMENT REQUIRED: YES ☐ NO ☐

TRANSMISSION DESIGN DOCUMENT REQUIRED: YES ☐ NO ☐

CORROSION ENGINEERING

CONDITION OF COATING WHEN DELIVERED TO JOB:

APPR. BY _____

COATING TYPE _____ GOOD ☐ FAIR ☐ POOR ☐

INSPECTION: VISUAL ☐ JEEP ☐

INSULATION CHECKED NO. CHECKED _____

TYPE PATCH MATERIAL _____

TEST CONN. PER STD. SI-ST-4000

NO. PROPOSED _____

NO. INSTALLED _____

NO. TESTED OK (P/S INDICATOR) _____

PLASTIC SEPARATIONS INSTALLED ☐

CONTINUITY OF COUPLINGS CHECKED ☐

CASING CHECKED FOR SHORT ☐

PERMIT(S) REQUIRED

-

SYSTEMS OPERATION SUPERVISOR VALVES AND NUMBERS REVIEWED

REVIEWED BY _____

DATE _____

VALVES THAT HAVE BEEN ABANDONED AND REMOVED

_____ # _____

_____ # _____

_____ # _____

_____ # _____

_____ # _____

_____ # _____

SUPERVISOR BLOCK

SUPERVISOR OR CONTRACTOR _____

RECORDED BY _____

DATE STARTED _____ DATE PLACED IN SERVICE _____

DATE COMPLETED _____ PERMIT NO. _____

TRACEABILITY OF PLASTIC MAIN AND SERVICES TESTED UPON COMPLEATION

COMPLETION CONTRACTOR _____

VERIFICATION INSPECTOR _____

FIELD PRESSURE LEAK TEST

ALL PIPELINES REQUIRE LEAK TESTING BEFORE PLACING INTO SERVICE, PRESSURE CHARTS AND FORMS SHOULD BE FORWARDED TO GAS ENGINEERING FOC-PR-2040

REQUIRED TEST PRESSURE RANGE:

MIN. 90 PSIG TO MAX 100 PSIG

HOURS _____ MEDIUM AIR

TESTED BY _____ DATE _____

PROJECT CONTACTS

CONSTRUCTION:

MELISSA VAUGHAN
(W) 859-534-4404
(C) 513-312-9744

ENGINEERING SPONSOR:

SCOTT PFEFFERMAN
(C)513-315-4593

PIPE INSTALLED ON JOB

	WO#	PROJECT	ACTIVITY	SIZE	KIND	WALL THICKNESS	EST. PIPE LENGTH	ACTUAL PIPE LENGTH	ACTUAL FITTING VALVE LENGTH
INSTALLATION	46798234	MX6798234	I	8"	PL		1732'		
ABANDONMENT									
INSTALL SERVICE M-C									
INSTALL SERVICE C-M									
INSTALL METER SET									
RENEW SERVICE M-C		MCRP70	I						
RENEW SERVICE C-M									
RELOCATE METER						TOTAL	1732'		

CONSTRUCTION NOTES:

1. TARGET START DATE: _____

   TARGET IN-SERVICE DATE: _____

   TARGET COMPLETION DATE: _____

2. THE WINNING BIDDER MUST INSTALL THE MAIN IN ACCORDANCE WITH THE SPECIFIED BID INSTALLATION METHOD UNLESS AN ALTERNATIVE METHOD IS SUBMITTED TO AND APPROVED BY THE DUKE ENERGY DESIGN ENGINEER. ANY CHANGES IN INSTALLATION METHOD SHALL NOT INCREASE THE COST OF THE PROJECT TO KYTC.

3. RESTRICTED HOURS, TRAFFIC CONTROL OR OTHER RESTRICTIONS IMPOSED BY THE PERMITTING AGENCY ARE THE SOLE RESPONSIBILITY OF THE BIDDERS.

4. ALL WORK MUST BE DONE IN ACCORDANCE WITH THE MOST CURRENT VERSIONS OF GD-147 AND GD-150.

5. TIE-IN MAINS MUST BE ADEQUATELY EXPOSED FOR PROPER LINE-UP.

6. CONTRACTOR WILL BE PAID COST PLUS 10% FOR T&M GAS MISCELLANEOUS WORK. IF REQUESTED BY DUKE WILL BE PAID DIRECT BY DUKE.

7. ASSUME ROCKY CONDITIONS WHEN DRILLING. CONTRACTOR WILL NOT BE PAID EXTRA FOR USING A LARGE DRILL MACHINE OR ROCK HEAD, IF NEEDED.

8. CONTRACTOR WILL PROVIDE A PROJECT SCHEDULE IN GANTT CHART FORM.

9. TARGET IN-SERVICE DATE IS THE DATE THAT ALL MAIN AND SERVICES ARE GASSED UP & ABANDONMENTS ARE COMPLETE.

10. TARGET FINISH DATE IS THE DATE WHEN ALL RESTORATION IS COMPLETE.

11. CONTRACTOR MAY BE EXPECTED TO PERFORM MORE THAN ONE PRESSURE TEST DUE TO LENGTH OF PIPE INSTALLED.

12. WINNING BIDDER WILL NOT BE COMPENSATED FOR EXTRA PRESSURE TESTS IF REQUIRED BY GAS ENGINEERING.

13. ALL MAIN INSTALLED OUTSIDE OF ROADWAYS SHALL HAVE 42" MINIMUM DEPTH FROM FINAL GRADE. ALL MAIN UNDER PAVEMENT SHALL HAVE MINIMUM DEPTH OF 60" FROM FINAL GRADE.

14. ALL BACKFILL OUTSIDE OF ROADWAYS SHALL BE BACKFILLED WITH TRENCH EXCAVATED MATERIAL COMPACTED TO 95% OPTIMUM DENSITY OR FLOWABLE FILL. ALL BACKFILL IN ROADWAYS SHALL BE FLOWABLE FILL.

15. GRANULAR BEDDING CAN BE USED TO MAXIMUM 12" OVER PIPE. GRANULAR SHALL NOT BE USED AS BACKFILL. ALL GRANULAR SHALL BE COMPACTED.

COUNTY OF	ITEM NO.	SHEET NO.
KENTON	06-8916-00	U23

NOTES:

1. PROVIDE 12" MINIMUM CLEARANCE BETWEEN PROPOSED GAS MAIN AND EXISTING SEWER INLET PIPES AND WATER MAINS
2. IF WATER USAGE IS REQUIRED FROM A FIRE HYDRANT SERVED BY THE CINCINNATI WATER WORKS FOR HYDROSTATIC TESTS, CONCRETE SAWS, FLUSHING STREET OR DITCHES, ETC., PLEASE CALL 513-635-2544 FOR WATER WORKS AND FIRE DISTRICT NOTIFICATION.
3. PRIOR TO INSTALLATION OF GAS SERVICE BY DUKE ENERGY OR DIGGING OF TRENCH BY CUSTOMER, CALL GAS FIELD INSPECTOR TO LOCATE EXISTING GAS LINES
   OHIO - 1-800-362-2764
   KENTUCKY - 1-800-752-6007
4. STEEL PIPE TO PLASTIC PIPE TRANSITION SHALL BE ACCOMPLISHED USING A PL-S TRANSITION FITTING OR A STYLE 711 POSI-HOLD COUPLING W/ STIFFENER - TO BE TIGHTENED BY DUKE ENERGY AT TIME OF VISUAL INSPECTION.
5. PLASTIC PIPE INSTALLATION SHALL BE BACK FILLED IN ACCORDANCE WITH DUKE ENERGY & SUBSIDIARIES GAS STANDARD FOC-ST-3120
6. ONLY INDIVIDUALS QUALIFIED BY DUKE ENERGY ARE PERMITTED TO MAKE FUSION JOINTS ON PLASTIC PIPE.
7. COMPANY INSPECTOR TO RECORD NAME AND LAST FOUR DIGITS OF SOCIAL SECURITY NUMBER OF INDIVIDUALS MAKING FUSION JOINTS.
8. COIL TRACER WIRE AT METER RISER AND CURB VALVE WITH ENOUGH WIRE TO EXTEND A MINIMUM OF TWO FEET ABOVE GROUND.
9. MINIMUM DEPTH REQUIREMENTS:
   3' AT THE STREET OR AT THE GAS MAIN TIE IN
   2'-6" AT THE GAS METER
   MAINTAIN A MINIMUM OF 3'-0" CLEAR SPACE IN FRONT OF METER SET
10. SHUT OFF VALVES ON SERVICES SHOULD BE LOCATED FROM BOTH HOUSE LINES WHEN POSSIBLE AND FROM INTERSECTING STREET.
11. GAS METER AND REGULATOR SHALL NOT BE PLACED IN ANY OF THE FOLLOWING LOCATIONS:
    - UNDER ANY OPERABLE WINDOW OR AIR DUCT
    - WITHIN 10 FEET OF ANY ADJACENT AIR DUCT
    - WITHIN 10 FEET OF ANY ELECTRICAL EQUIPMENT
    - IF THE ABOVE CRITERIA CANNOT BE MET, CONTACT G.S.E SPONSOR FOR AN ENGINEERING ASSESSMENT
12. CONTACT GAS SYSTEMS OPERATIONS SUPERVISOR PRIOR TO STARTING JOB TO VERIFY GAS FLOW

811 Know what's below. Call before you dig.

CALL 48 HOURS BEFORE YOU DIG

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NO.	DATE	REVISION(S) DESCRIPTION	DRAFTING/DESIGN	CHECKER/REVIEWER	APPROVING ENGINEER
0	06/08/2023	ISSUED FOR CONSTRUCTION	S.ARAM	A.HUANG	R.ESPOSITO

DESCRIPTION	
AREA CODE	S587
ACCOUNT NUMBER	46798234
PROJECT NUMBER	MX6798234
DWG TYPE	-
STATION ID	N/A

DUKE ENERGY. Piedmont Natural Gas

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PROFESSIONAL ENG/ARCH STAMP

46798234
HOUSTON RD
SIGN OFF SHEET
ERLANGER, KENTON COUNTY, KY
-

SHEET(S) 2 OF 8 | DWG SCALE NOT TO SCALE

DWG DATE 06/08/2023 | SUPERSEDED -

DRAWING NUMBER: PNG -G-2 | REVISION: 0

DISCIPLINE / RESOURCE CENTER / LINE NUMBER

BOM #	Maximo Part #	Legacy Part #	Source System	Qty	Retired?	Description	Ordering Instructions	Ordering Specifications	Manuf	Model	Manuf Part #	
						PIPE (BOM# 000-099)						
1	50131194	50131194	OH/KT	1732		PIPE, 8" IPS, 40' LG, PLAIN ENDS, EXTRUDED, SDR 17, 64 LB, BLACK EXTRUDED BIMODAL PE4710, ASTM D2513, W/ LONGITUDINAL, YELLOW STRIPES EVERY 90-120 DEG			JMMFGCOINC,PERFORMANPIP,WLPLASTICS,	8300 SERIES	PE4710, DAE1-149, 1103359	
2	50056058	50056058	OH/KT	40		PIPE, 4" IPS, 40' LG, PLAIN ENDS, EXTRUDED, SDR 11.5, 76 LB, PE 2406, ASTM D2513, PIPE-4" I.P.S. X .395" WALL THICKNESS X 4.50 O.D. POLYETHYLENE DRISCOPIPE 6500 YELLOW PIPE, (29 LENGTHS = 1160 FT. BUNDLE) 16,240 FT. = TRUCKLOAD MATERIAL SPECIFICATIONS MUST BE SUPPLIED W/EACH SHIPMENT, 29 LENGTHS PER BUNDLE, 14 BUNDLES PER TRUCK 16,240 FT			CHEVRONPHILL,JMMFGCOINC,POLYPIPEINC,		1002349, 65P0401155040Y, UAD1-01, 1215491	
3	50056057	50056057	OH/KT	20		PIPE, 2" IPS, 40' LG, PLAIN ENDS, EXTRUDED, SDR 11, 76 LB, PE 2406, ASTM D2513, PIPE-2" I.P.S. X .216" WALL			CHEVRONPHILL,JMMFGCOINC,POLYPIPEI		1002303, 65P0201105040Y, UAB3-01, 1215442	
						FITTINGS (BOM# 100-199)						
100	50131442	50131442	OH/KT	0		TEE,PIPE, 8" IPS, BUTT FUSION, 64 PSI, SDR 17.0, MOLDED BLACK PE 4710, ASTM D2513, CFR 49 PART 192.283(B)			AGRUAMERICA,CENTRALPLAST,INTEGRITYFUS,		TEEBI-8IPS-17, R-TEES-R17-08.00, 10004270	
101	50122077	50122077	OH/KT	2		TEE,PIPE REDUCING, 8" IPS RUN, 4" IPS BRANCH, ELECTRO FUSION RUN & BRANCH, BLACK PE 100/3408 (4710), ASTM D-2513			MTDEASONCOIN,		TRI 0385, TRI0380	
102	50057869	50057869	OH/KT	1		TEE,PIPE ADAPTER, 2" NPS X 2" NPS, INLET WELD X OUTLET THD RUN, BW BRANCH, CLASS 150, CS, ASME B16.11, ASTM A105, 3-WAY, COMPLETE, W/ CAP, COMPLETION PLUG AND O-RING STD PKG/1			BLACKHAWKIND,MTDEASONCOIN,TDWILLIAMSON,		0200-0285T-0000, 6511-1502-00, 26-0217, 26-0217-0000-00	
103	50122076	50122076	OH/KT	1		OUTLET,PIPE, SADDLE, 6" IPS RUN, 6" IPS BRANCH, ELECTROFUSION, BLACK PE100/3408 (4710), ASTM D2513, D3350,			MTDEASONCOIN,		TRI1176	
104	50131429	50131429	OH/KT	7		ELBOW,PIPE, 8" IPS, BUTT FUSION, 45 DEG, STD RADIUS, MOLDED PE 3408 (4710), ASTM D2513, ASTM D3261, 64 LB, SDR 17			AGRUAMERICAI,CENTRALPLAST,INTEGRITYFUS,JMMFGCOINC,PERFORMANPIP,		45BI-8IPS-17, F-EL45-R17-08, R-EL45-R17-08.00, 10004106, 512863863022, 1097364	
105	50131431	50131431	OH/KT	2		ELBOW,PIPE, 8" IPS, BUTT FUSION, 90 DEG, STD RADIUS, MOLDED PE 3408 (4710), ASTM D2513, ASTM D3261, 64 LB, SDR 17			AGRUAMERICAI,CENTRALPLAST,INTEGRITYFUS,JMMFGCOINC,	JM EAGLE	10008766, 90BI-8IPS-17, R-EL90-R17-08.00, 10004153, 512863863022	
106	50088405	50088405	OH/KT	1		ELBOW,PIPE, 6" IPS, BUTT FUSION, 45 DEG, PE 2406 (2708), ASTM D2513, 64 LB, YELLOW, STD PKG/2			CENTRALPLAST,CHEVRONPHILL,PERFOR		6910456, 65M060135L45DY, 1005294,	
107	50057553	50057553	OH/KT	2		ELBOW,PIPE, 2" IPS, BUTT FUSION, 90 DEG, PE 2406 (2708), ASTM D2513, 80 LB, SDR 11, YELLOW CSA, IAPMO STD			CENTRALPLAST,CHEVRONPHILL,PERFOR		691020223000, 6912133, 65M020110L90DY,	
108	50092525	13538	5 STATE	1		COUPLING,PIPE, 8" IPS, ELECTROFUSION, PE 4710, ASTM D2513, F1055, ELECTROFUSION X ELECTROFUSION, 4.7 MM PINS, MUST INCLUDE BARCODE IDENTIFICATION			CENTRALPLAST, MTDEASONCOIN,		5750078, TRI0180,	
109	50091357	10267	5 STATE	1		COUPLING,PIPE, 6" IPS, ELECTROFUSION, PE 4710, ASTM D2513, F1055, ELECTROFUSION X ELECTROFUSION, 4.7 MM PINS, MUST INCLUDE BARCODE IDENTIFICATION			CENTRALPLAST, MTDEASONCOIN,		575-7009, TRI0160,	
110	1458380	1458380	OH/KT	1		REDUCER,PIPE, CONCENTRIC, 8" IPS X 6" IPS, BUTT FUSION, PE 4710, ASTM D2513, 64 PSIG, HDPE, ASTM PE4710, 6"" IPS DR 13.5 X 8"" IPS DR 17, PER			CENTRALPLAST,		10010386, 10010692	
111	1554146	1554146	OH/KT	1		REDUCER,PIPE, 4" X 2", BUTT FUSION, MDPE, SDR 11 WALL THK, PE2708 PE2406			GEORGEFISHER,		935747	
112	50088404	50088404	OH/KT	1		CAP,PIPE, 6" IPS, BUTT FUSION, 64 LB, SDR 13.5, YELLOW CSA PE 2406 (PE 2708), ASTM D2513, 64 LB, SDR 13.5, STD PKG/5			CENTRALPLAST,PERFORMANPIP,PHILLIPSDRIS,PLEXCO,		6910452, 6911479, 1005293, 65M060135CPSTY, 366331	
113	1553788	17124	PNG	1		CAP,PIPE, 2" NPS X 0.218 W.T., WELD, STL, MSS SP-75, GR Y52			HACKNEYLADIS		2-CP-218-Y52	
114	1554279	16577	PNG	5		FITTING, THREAD-O-RING, 2" X 4" NPS WE, STL, ASTM A333 GR. 6 ASME B31.8, , BARE, NIPPLE, ASTM A333. CAP, ASTM A105. PLUG, ASTM B-16 YELLOW BRASS. BUNA-N N674-70 O-RING			TDWILLIAMSON,		TR-0002-0001-00	
115	50057594	50057594	OH/KT	1		ADAPTER,PIPE, 2" IPS, BUTT FUSION, BEVELED, SDR 11, PE 2406 / COATED STL, ASTM D2513, ASTM D1598, ASTM F1973, ANSI B1.20.1, ANSI B31.8, GR B, STD PACKAGE - 1			CENTRALPLAST,CHEVRONPHILL,MCJUNKINCORP,PHILLIPSDRIS,RWLYALLCO,		6500202000, SAE 6500557, 650020110TRCPY, 61420325, 1005479, 12238238 0800	
116	50057407	50057407	5 STATE	2		COUPLING,PIPE, 4" IPS, ELECTROFUSION, PE 4710, ASTM D2513, F1055, ELECTROFUSION X ELECTROFUSION, 4.7 MM PINS, MUST INCLUDE BAR CODE IDENTIFICATION			CENTRALPLAST, MTDEASONCOIN,		5756008, TRI0140,	
117	50057409	13382	5 STATE	1		COUPLING,PIPE, 2" IPS, ELECTROFUSION, PE 4710, ASTM D2513, F1055, ELECTROFUSION X ELECTROFUSION, 4.0 MM PINS, MUST INCLUDE BARCODE IDENTIFICATION			KEROTESTMFG,		89000200	
						VALVES (including ROV's and ACTUATORS) (BOM# 300-399)						
301	1555520	17138	5 STATE	2		VALVE,BALL, 4" IPS, FULL PORT, FUSE X FUSE, 2" SQ NUT OPERATED, PE 2708 (PE 2406) BODY, ASME B16.40, SDR 11, MDPE			POLYVALVELLC, KEROTEST,		14281225, 99044011,	
302	1555522	17139	PNG	1		VALVE,BALL, 6" IPS, FULL PORT, FUSE X FUSE, 2" SQ NUT OPERATED, PE 2708 (PE 2406) BODY, ASME B16.40, SDR 11, MDPE			POLYVALVELLC, KEROTEST		6-84111, 99046011	
303	50118923	50118923	OH/KT	2		BOX, VALVE, PLASTIC, 2"-4" FULL PORT, 2"-6" REDUCED PORT, 34"-54" EXTENSION, PE, 2""-4"" FULL PORT, 2""-6"" REDUCED PORT, 34"-54" EXTENSION			BINGHAMTAYLO,HANDLEYINDUS,		P-5663-S-105, G6VAT3NAC	
304	50094845	50094845	OH/KT	1		BOX, VALVE, 6" FULL PORT, ADJUSTABLE 29"-42" HT, 6" FULL PORT, ADJUSTABLE 29"-42" HT			BINGHAMTAYLO,HANDLEYINDUS,		P-5663-S-108, G6VAX3N40AC/VV40	
						MISCELLANEOUS (BOM# 800-899)						
800	50057325	50057325	OH/KT	14		BOX, 4" DIA X 18" LG, PLASTIC, WHITE, FLARED BOTTOM, CI RIM / COLLAR, YELLOW CI LOCKING LID, MARKED "TEST STATION", 50/PALLET, CATHODIC TERMINAL TEST, WHITE, FLARED BOTTOM, CI RIM / COLLAR, YELLOW CI, LOCKING LID, MARKED "TEST STATION", 50/PALLET			BINGHAMTAYLO,HANDLEYINDUS,		P202CNG, P445DT, P4BHLWTS18, T2IS3A81, T46	
801	1552969	10490	PNG	3		ANODE, MAGNESIUM, 17 LB, HIGH POTENTIAL ANODE. WITH 10' LONG #12 TW SOLID COPPER WIRE, BLACK.			CORRPROCOMPA,MESAPRODUCTS,		KMAG17, UNKNOWN	
802						TRACER WIRE						

COUNTY OF	ITEM NO.	SHEET NO.
KENTON	06-8916-00	U24

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NO.	DATE	REVISION(S) DESCRIPTION	DRAFTING/DESIGN	CHECKER/REVIEWER	APPROVING ENGINEER
0	06/08/2023	ISSUED FOR CONSTRUCTION	S.ARAM	A.HUANG	R.ESPOSITO

DESCRIPTION	
AREA CODE	S587
ACCOUNT NUMBER	46798234
PROJECT NUMBER	MX6798234
DWG TYPE	-
STATION ID	N/A

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46798234
HOUSTON RD
BILL OF MATERIALS
ERLANGER, KENTON COUNTY, KY

-

REF. DWG(S) 0X-XXXXX-XXXX-20XX - SHT 1
0X-XXXXX-XXXX-20XX - SHT 1

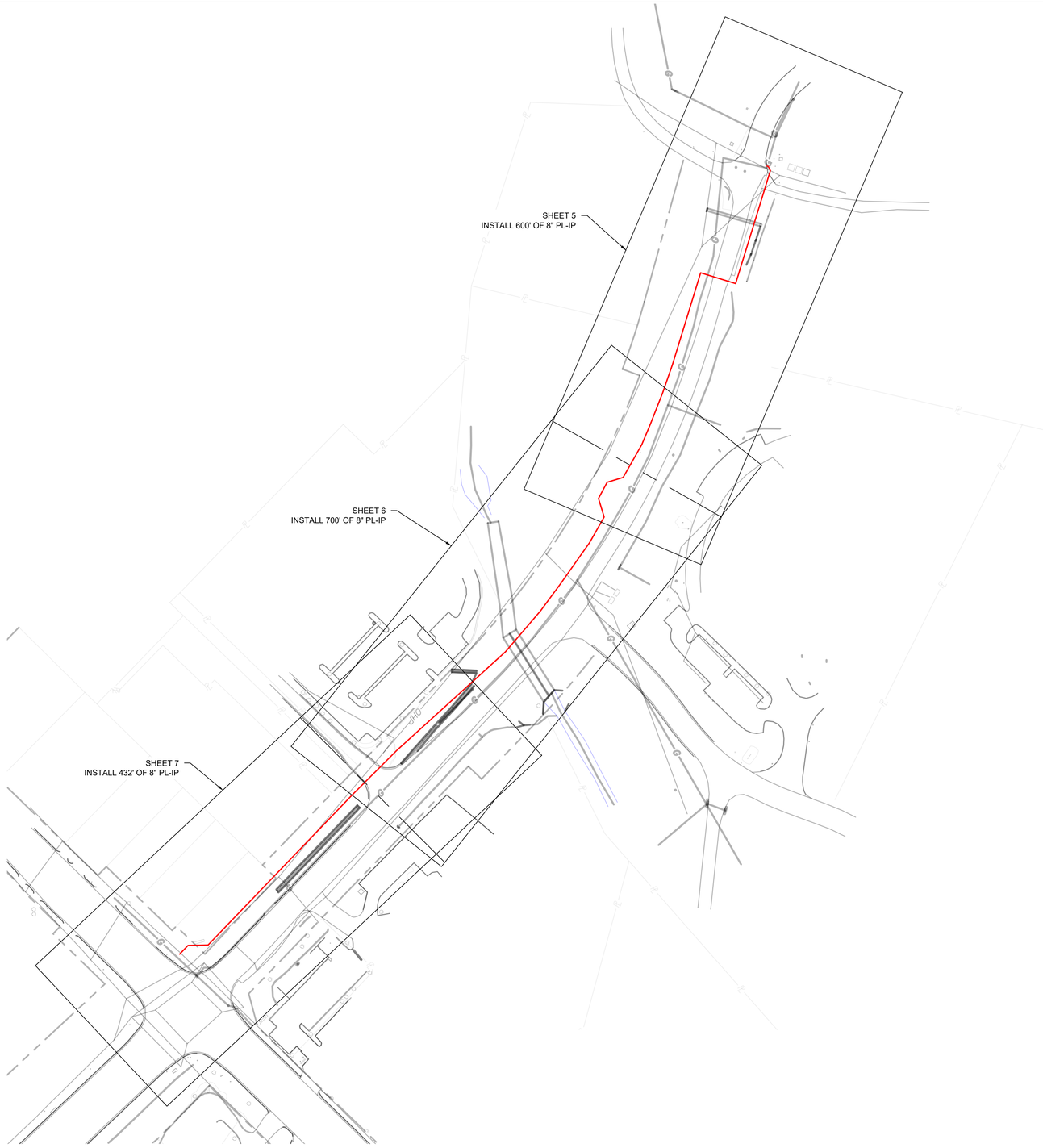
SHEET(S) 3 OF 8 | DWG SCALE NOT TO SCALE

DWG DATE 06/08/2023 | SUPERSEDED -

DRAWING NUMBER: PNG -G-3 | REVISION: 0

DISCIPLINE / RESOURCE CENTER / LINE NUMBER

COUNTY OF	ITEM NO.	SHEET NO.
KENTON	06-8916-00	U25



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NO.	DATE	REVISION(S) DESCRIPTION	DRAFTING/DESIGN	CHECKER/REVIEWER	APPROVING ENGINEER
0	06/08/2023	ISSUED FOR CONSTRUCTION	S.ARAM	A.HUANG	R.ESPOSITO

DESCRIPTION	
AREA CODE	S587
ACCOUNT NUMBER	46798234
PROJECT NUMBER	MX6798234
DWG TYPE	-
STATION ID	N/A

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46798234
HOUSTON RD
PROJECT LAYOUT
ERLANGER, KENTON COUNTY, KY

-

REF. DWG(S) 0X-XXXXX-XXXX-20XX - SHT 1
0X-XXXXX-XXXX-20XX - SHT 1

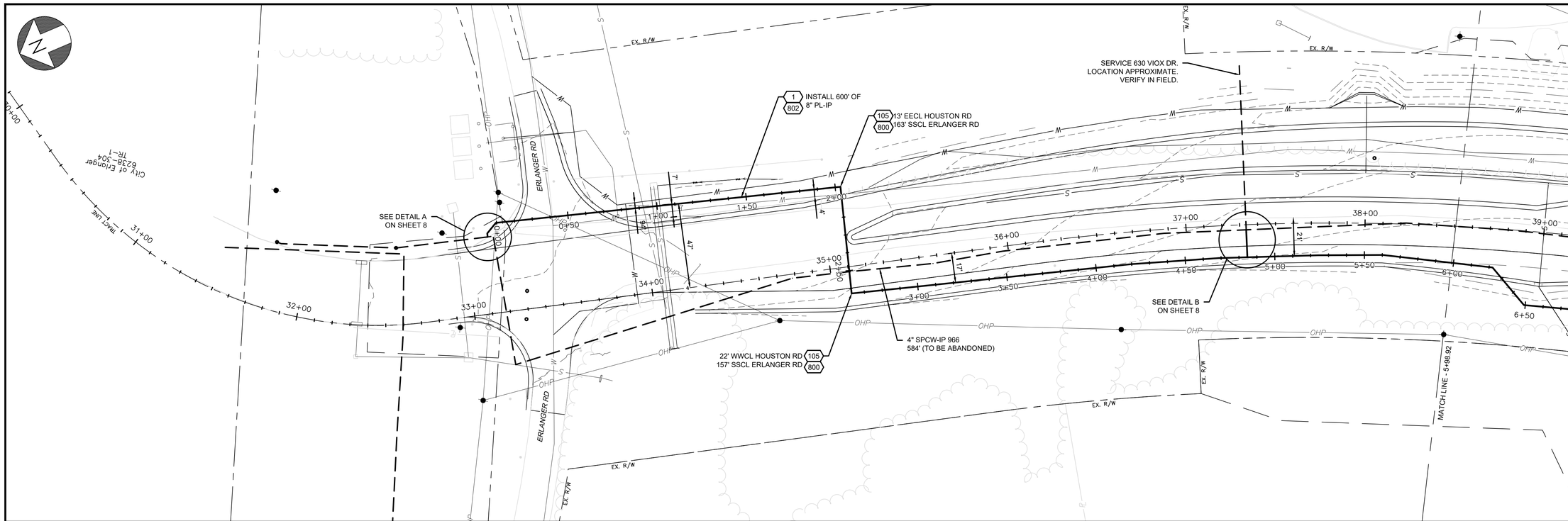
SHEET(S) 4 OF 8 | DWG SCALE NOT TO SCALE

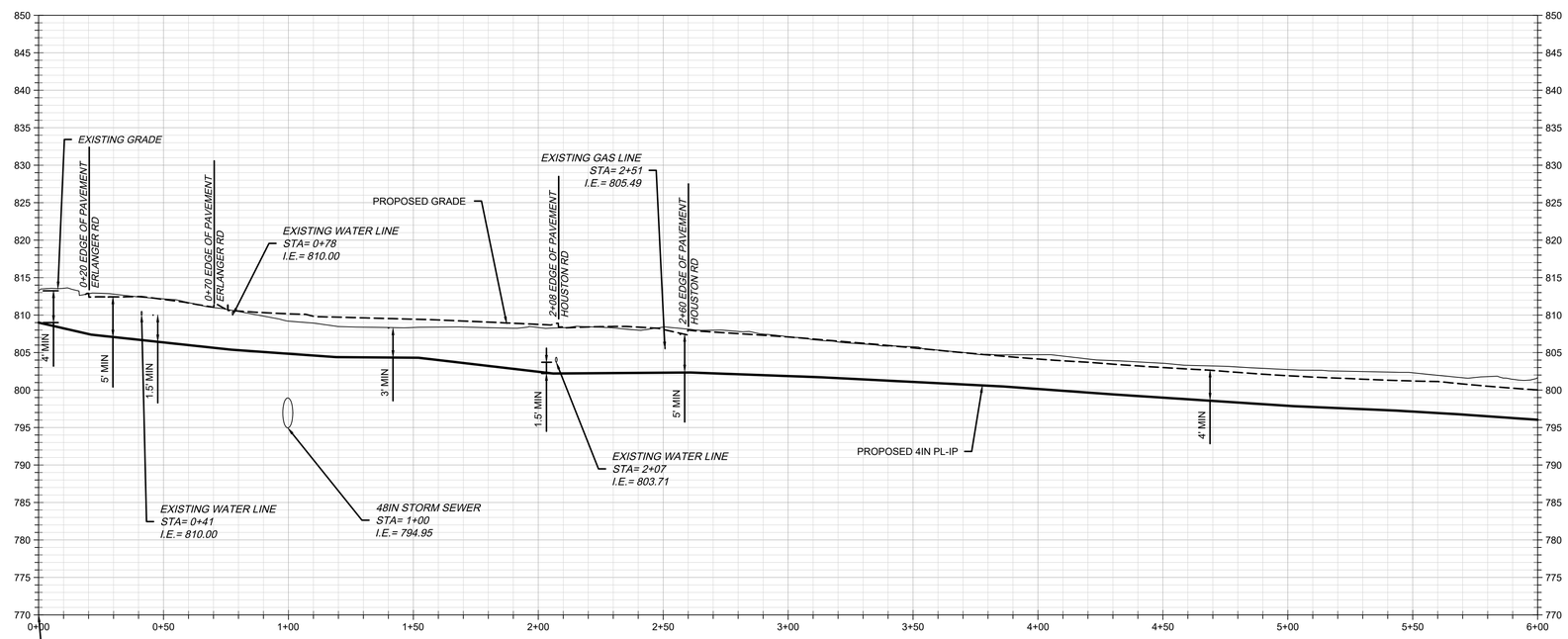
DWG DATE 06/08/2023 | SUPERSEDED -

DRAWING NUMBER: PNG -G-4 | REVISION: 0

DISCIPLINE / RESOURCE CENTER / LINE NUMBER

COUNTY OF	ITEM NO.	SHEET NO.
KENTON	06-8916-00	U26





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NO.	DATE	REVISION(S) DESCRIPTION	DRAFTING/DESIGN	CHECKER/REVIEWER	APPROVING ENGINEER
0	06/08/2023	ISSUED FOR CONSTRUCTION	S.ARAM	A.HUANG	R.ESPOSITO

DESCRIPTION	
AREA CODE	S587
ACCOUNT NUMBER	46798234
PROJECT NUMBER	MX6798234
DWG TYPE	-
STATION ID	N/A

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46798234
HOUSTON RD
ALIGNMENT SHEET STA 0+00 TO STA 6+00
ERLANGER, KENTON COUNTY, KY

-

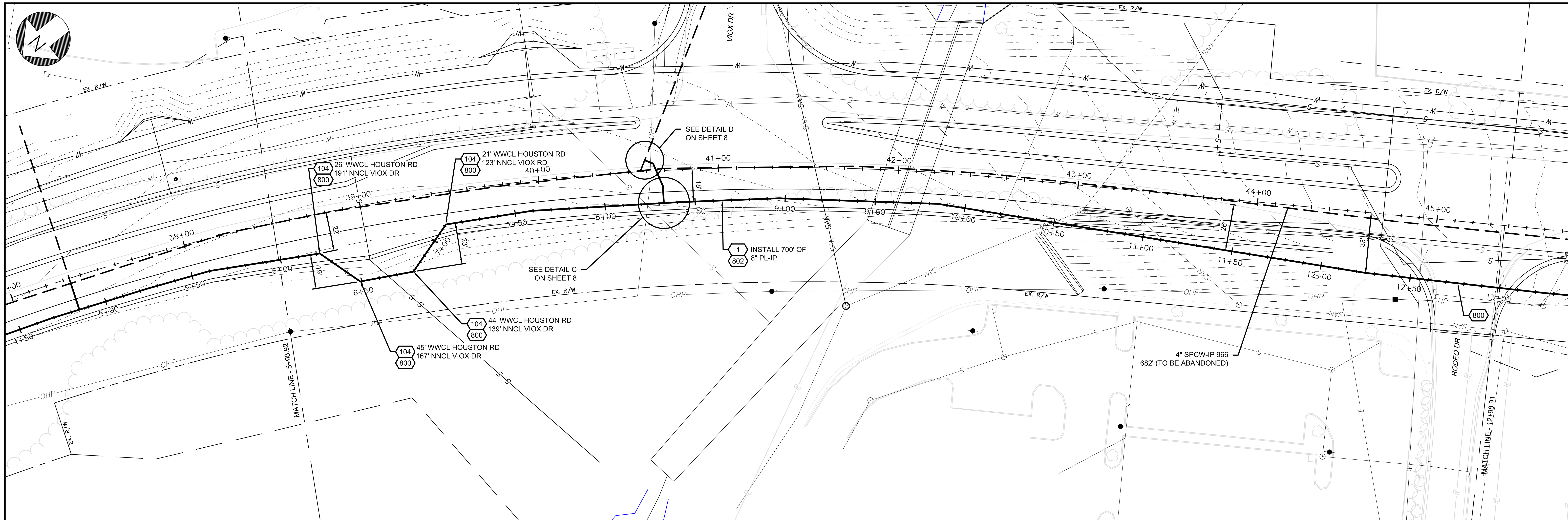
REF. DWG(S) 0X-XXXXX-XXXX-20XX - SHT 1
0X-XXXXX-XXXX-20XX - SHT 1

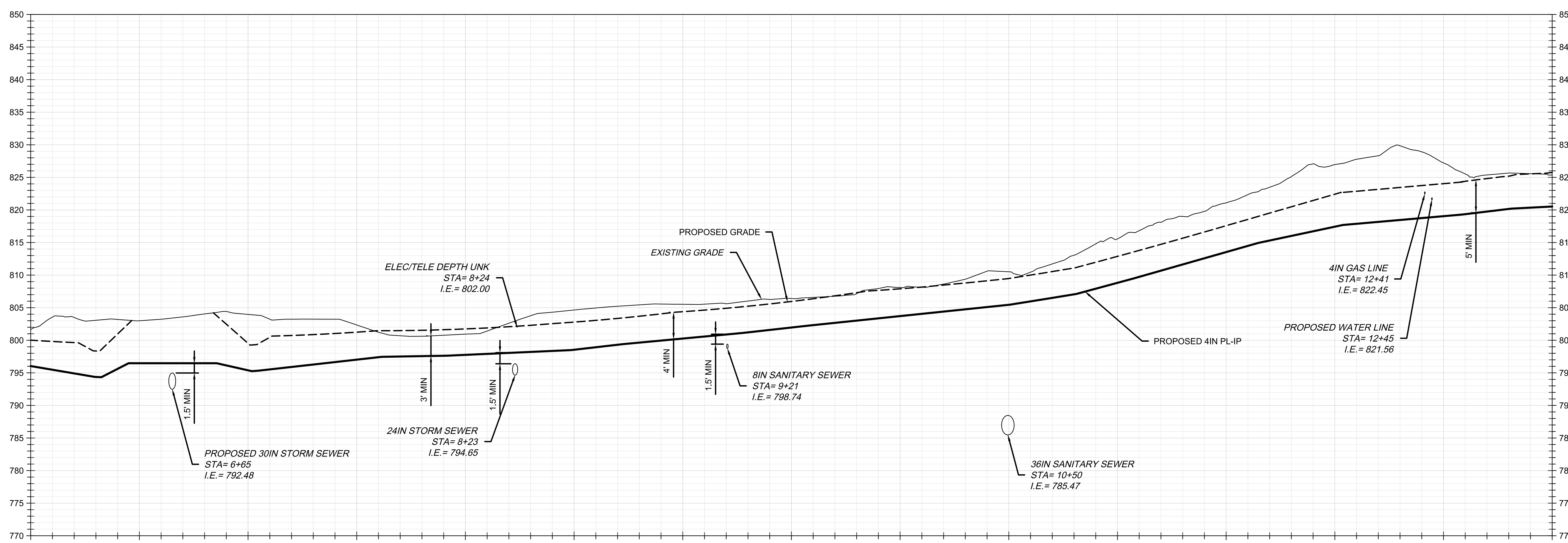
SHEET(S)	5 OF 8	DWG SCALE	1"=30'
DWG DATE	06/08/2023	SUPERSEDED	-

DRAWING NUMBER	REVISION
PNG -C-1	0

DISCIPLINE / RESOURCE CENTER / LINE NUMBER

COUNTY OF	ITEM NO.	SHEET NO.
KENTON	06-8916-00	U27





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NO.	DATE	REVISION(S) DESCRIPTION	DRAFTING/DESIGN	CHECKER/REVIEWER	APPROVING ENGINEER
0	06/08/2023	ISSUED FOR CONSTRUCTION	S.ARAM	A.HUANG	R.ESPOSITO

DESCRIPTION	
AREA CODE	S587
ACCOUNT NUMBER	46798234
PROJECT NUMBER	MX6798234
DWG TYPE	-
STATION ID	N/A

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HOUSTON RD
ALIGNMENT SHEET STA 6+00 TO STA 13+00
ERLANGER, KENTON COUNTY, KY

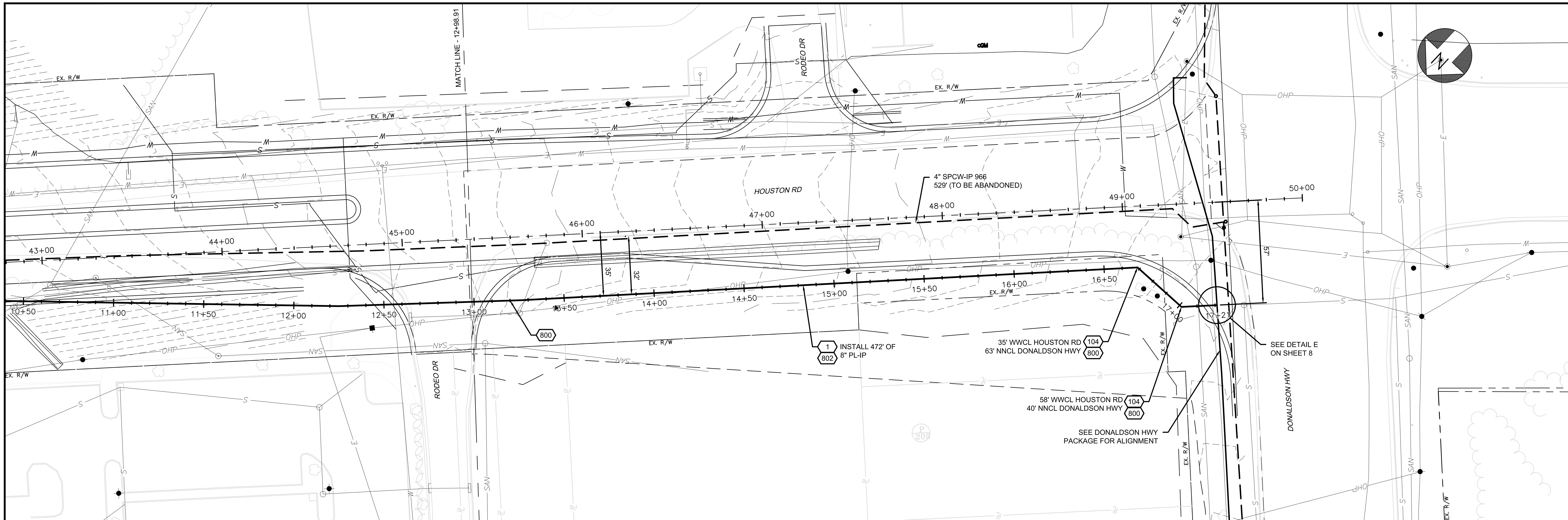
REF. DWG(S) 0X-XXXXX-XXXX-20XX - SHT 1
0X-XXXXX-XXXX-20XX - SHT 1

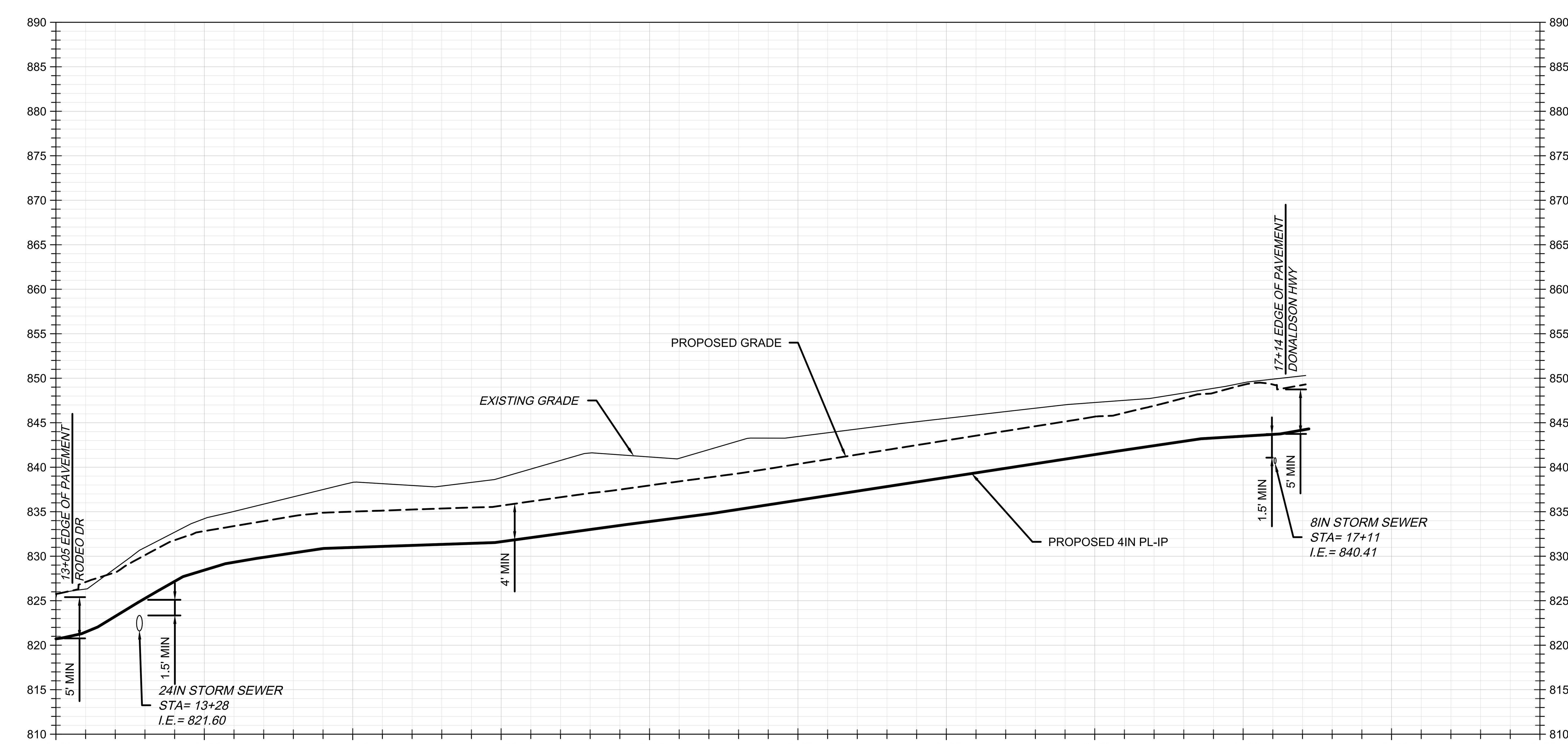
SHEET(S)	6 OF 8	DWG SCALE	1"=30'
DWG DATE	06/08/2023	SUPERSEDED	-

	DRAWING NUMBER	REVISION
PNG	-C-2	0

DISCIPLINE / RESOURCE CENTER / LINE NUMBER

COUNTY OF	ITEM NO.	SHEET NO.
KENTON	06-8916-00	U28





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NO.	DATE	REVISION(S) DESCRIPTION	DRAFTING/DESIGN	CHECKER/REVIEWER	APPROVING ENGINEER
0	06/08/2023	ISSUED FOR CONSTRUCTION	S.ARAM	A.HUANG	R.ESPOSITO

DESCRIPTION	
AREA CODE	S587
ACCOUNT NUMBER	46798234
PROJECT NUMBER	MX6798234
DWG TYPE	-
STATION ID	N/A

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46798234
HOUSTON RD
ALIGNMENT SHEET STA 13+00 TO STA 17+72
ERLANGER, KENTON COUNTY, KY

-

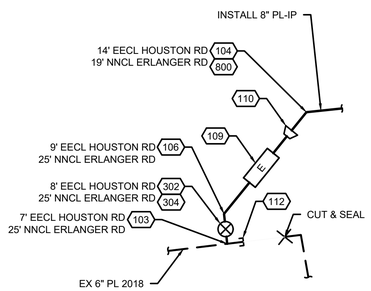
REF. DWG(S) 0X-XXXXX-XXXX-20XX - SHT 1
0X-XXXXX-XXXX-20XX - SHT 1

SHEET(S)	7 OF 8	DWG SCALE	1"=30'
DWG DATE	06/08/2023	SUPERSEDED	-

	DRAWING NUMBER	REVISION
PNG	-C-3	0

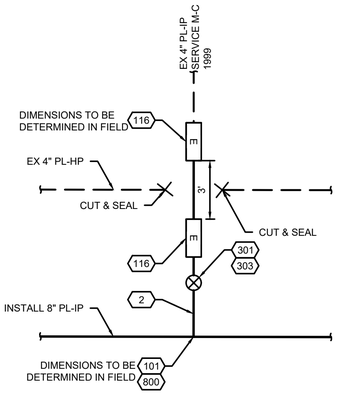
DISCIPLINE / RESOURCE CENTER / LINE NUMBER

COUNTY OF	ITEM NO.	SHEET NO.
KENTON	06-8916-00	U29



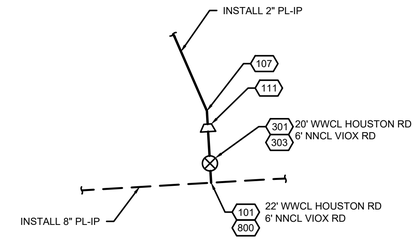
DETAIL A
SCALE: NTS
5

VALVE#: _____ SIZE: 6"
MANUFACTURER: _____
FIG.#: _____ W.O.G.: _____
GATE: PLUG: OTHER: BALL
TURNS TO OPEN: _____
LOCATION: _____
_____ FT _____ IN _____
_____ FT _____ IN _____
_____ FT _____ IN _____
BOX: PIT: COVER AT MAIN _____ FT _____ IN
REMARKS: _____



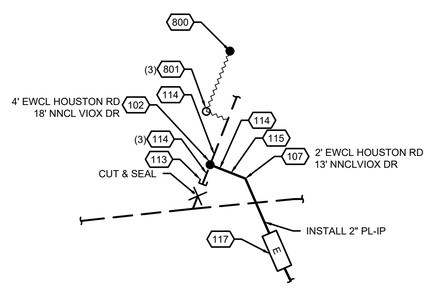
DETAIL B
SCALE: NTS
5

VALVE#: _____ SIZE: 4"
MANUFACTURER: _____
FIG.#: _____ W.O.G.: _____
GATE: PLUG: OTHER: BALL
TURNS TO OPEN: _____
LOCATION: _____
_____ FT _____ IN _____
_____ FT _____ IN _____
_____ FT _____ IN _____
BOX: PIT: COVER AT MAIN _____ FT _____ IN
REMARKS: _____

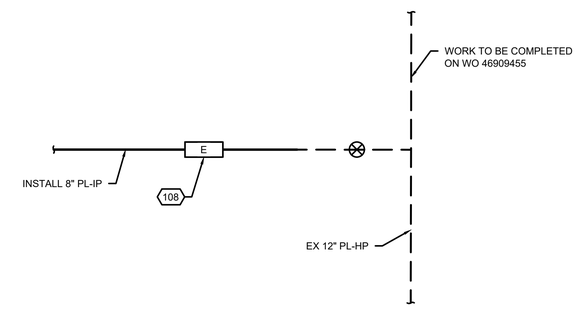


DETAIL C
SCALE: NTS
6

VALVE#: _____ SIZE: 4"
MANUFACTURER: _____
FIG.#: _____ W.O.G.: _____
GATE: PLUG: OTHER: BALL
TURNS TO OPEN: _____
LOCATION: _____
_____ FT _____ IN _____
_____ FT _____ IN _____
_____ FT _____ IN _____
BOX: PIT: COVER AT MAIN _____ FT _____ IN
REMARKS: _____



DETAIL D
SCALE: NTS
6



DETAIL E
SCALE: NTS
7

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NO.	DATE	REVISION(S) DESCRIPTION	DRAFTING/DESIGN	CHECKER/REVIEWER	APPROVING ENGINEER
0	06/08/2023	ISSUED FOR CONSTRUCTION	S.ARAM	A.HUANG	R.ESPOSITO

DESCRIPTION	
AREA CODE	S587
ACCOUNT NUMBER	46798234
PROJECT NUMBER	MX6798234
DWG TYPE	-
STATION ID	N/A

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HOUSTON RD
LINE DETAILS
ERLANGER, KENTON COUNTY, KY
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REF. DWG(S) 0X-XXXXX-XXXX-20XX - SHT 1
0X-XXXXX-XXXX-20XX - SHT 1

SHEET(S) 8 OF 8 | DWG SCALE NOT TO SCALE
DWG DATE 06/08/2023 | SUPERSEDED -

DRAWING NUMBER: PNG -C-4
REVISION: 0
DISCIPLINE / RESOURCE CENTER / LINE NUMBER