

STILLWATER KINZIE SUBSTATION 138/69kV

STATION ADDRESS: 301 S SANGRE RD, STILLWATER OK 74074

GPS: LAT. = 36.120°, LONG. = -97.104°

Drawing #	Revision	Date	Drawing Title
S351DZ01	3	8/24/2023	DRAWING INDEX
S351DM01	0	5/9/2023	MATERIAL LIST 2023 CONSTRUCTION
S351DT01	0	5/9/2023	CABLE SCHEDULE 2023 CONSTRUCTION
S351PE01	5	8/24/2023	ELECTRICAL PLAN
S351PE04	0	5/9/2023	SECTION G-G & H-H
S351PE05	0	5/9/2023	BUS ASSEMBLY DETAILS
S351PG10	3	9/20/2023	CONDUIT LAYOUT
S351PG11	0	5/9/2023	CONDUIT DETAILS
S351PG12	0	9/20/2023	CONDUIT DETAILS
S351PG20	3	8/24/2023	GROUNDING LAYOUT
S351PG21	0	5/9/2023	GROUNDING DETAILS
S351PG22	0	5/9/2023	GROUNDING DETAILS
S351PG30	5	8/24/2023	FOUNDATION LAYOUT
S351PG33	2	8/24/2023	FOUNDATION DETAILS - SLAB FOUNDATIONS - 69kV CAP BANK AND BREAKER
S351PG34	1	8/24/2023	FOUNDATION DETAILS 'D' - 69kV SWITCH STAND
S351PG35	1	8/24/2023	FOUNDATION DETAILS 'C' - 69kV REACTOR SUPPORT
S351PG36	1	8/24/2023	FOUNDATION DETAILS 'A' - 69kV RPD SUPPORT
S351VS01	0	8/11/2023	69kV 3Ø REACTOR SUPPORT, STRUCTURE (GS-201)
S351VS02	0	8/11/2023	69kV 1Ø SWITCH STAND, STRUCTURE (GS-210)
S351VS03	0	8/11/2023	69kV 1Ø RPD SUPPORT, STRUCTURE (GS-211)
S351PH01	2	5/9/2023	CONTROL HOUSE LAYOUT
S351PP001	1	5/9/2023	STEEL DETAILS & ELEVATIONS FOR PANELS 103 & 104
S351PP002	0	5/9/2023	PANEL #104 BOM & NAMEPLATES
S351PP105	0	5/9/2023	PNL #105 ELEVATION 138kV FDR 6 & BKR 670
S351SB10870	3	8/24/2023	BKR 10870 DC SCHEMATIC
S351SB670	3	8/24/2023	BKR 670 DC SCHEMATIC
S351SB81	1	8/24/2023	DC SCHEMATIC 69kV BKR 81 PNL #104 TRIP, CLOSE & MOTOR CIRCUITS
S351SB82	1	8/24/2023	DC SCHEMATIC 69kV BKR 81 PNL #104 HEATER CIRCUIT & ALARMS
S351SD001	1	8/24/2023	CAP BANK SEL 487V PRI. PROTECTION PNL #104
S351SD002	1	8/24/2023	DC SCHEMATIC BKR FAIL RELAY (50BF/50A/51A-351S) 69kV BKR 81 PNL #104
S351SF061	1	8/24/2023	DC SCHEMATIC PRIMARY RELAY (87L/21P/67P-311L) 138kV FDR 6 PNL #105
S351SF062	1	8/24/2023	DC SCHEMATIC BKR FAIL RELAY (50BF/25/79-351S) 138kV BKR 670 PNL #105
S351SF063	1	8/24/2023	DC SCHEMATIC ALTERNATE RELAY (21A/67A-311C) 138kV FDR 6 PNL #105
S351SF064	1	8/24/2023	DC SCHEMATIC CARRIER (UPLC2) PNL #105 FDR 6
S351SO01	11	8/24/2023	ONE LINE DIAGRAM
S351SO12	10	8/24/2023	THREE LINE AC CURRENT SCHEMATIC
S351SO13	9	8/24/2023	THREE LINE AC POTENTIAL SCHEMATIC
S351SO15	5	8/24/2023	ONE-LINE DIAGRAM METERING & RELAYING 138kV AND CITY AUTOTRANSFORMER
S351SO17	1	8/24/2023	ONE-LINE DIAGRAM METERING & RELAYING CAP BANK AND CITY 69kV
S351SO17-TEMP	1	8/24/2023	ONE-LINE DIAGRAM METERING & RELAYING CAP BANK AND CITY 69kV (TEMP)
S351SO18	1	8/24/2023	THREE-LINE DIAGRAM GRDA 69kV CAPACITOR BANK
S351SR01	7	8/24/2023	ANNUNCIATOR NAMEPLATE
S351SR01-1	5	8/24/2023	ANNUNCIATOR SCHEMATIC (SHEET 1) PNL 101
S351SR01-2	1	8/24/2023	ANNUNCIATOR SCHEMATIC (SHEET 2) PNL 101
S351WB81	1	8/24/2023	WIRING DIAGRAM 69kV CIRCUIT BREAKER 81
S351WP101	2	8/24/2023	TERMINAL BLOCK WIRING DIAGRAM PANEL 101
S351WP101-2	2	8/24/2023	WIRING DIAGRAM PANEL 101
S351WP103	2	8/24/2023	WIRING DIAGRAM PANEL 103 CB 10870
S351WP104	2	8/24/2023	WIRING DIAGRAM PANEL 104 - 69kV CAPACITOR BANK & 138kV BUS DIFFERENTIAL
S351WP104-2	1	8/24/2023	RELAY PNL 104 CAP BANK WIRING DIAGRAM (SH. 2 OF 3)
S351WP104-3	1	8/24/2023	RELAY PNL 104 CAP BANK WIRING DIAGRAM (SH. 3 OF 3)
S351WP105-1	1	8/24/2023	WIRING DIAGRAM 138kV FDR 6 & BKR 670 PNL #105 (SHEET 1 OF 2)
S351WP105-2	1	8/24/2023	WIRING DIAGRAM 138kV FDR 6 & BKR 670 PNL #105 (SHEET 2 OF 2)
S351WZ02	4	8/24/2023	CONTROL BUILDING AC/DC PANEL
S351WZ03	1	8/24/2023	WIRING DIAGRAM RPD TERMINAL BOX AND DEMARCATION CABINET

Drawing #	Revision	Date	Drawing Title
S351PP001-DEMO	0	5/9/2023	STEEL DETAILS & ELEVATIONS FOR PANELS 103 & 104 (DEMO)
S351SB10870-DEMO	0	5/9/2023	BKR 10870 DC SCHEMATIC DEMOLITION
S351SB670-DEMO	0	5/9/2023	BKR 670 DC SCHEMATIC DEMOLITION
S351SO12-DEMO	0	5/9/2023	THREE LINE AC CURRENT SCHEMATIC DEMOLITION
S351SO13-DEMO	0	5/9/2023	THREE LINE AC POTENTIAL SCHEMATIC DEMOLITION
S351SR01-1-DEMO	0	5/9/2023	ANNUNCIATOR SCHEMATIC PNL 101 DEMOLITION
S351SR01-DEMO	0	5/9/2023	ANNUNCIATOR NAMEPLATE DEMOLITION
S351WP101-2-DEMO	0	5/9/2023	WIRING DIAGRAM PANEL 101 DEMOLITION
S351WP101-DEMO	0	5/9/2023	TERMINAL BLOCK WIRING DIAGRAM PANEL 101 DEMOLITION
S351WP103-DEMO	0	5/9/2023	WIRING DIAGRAM PANEL 103 CB 10870 DEMOLITION
S351WP104-DEMO	0	5/9/2023	WIRING SCHEMATIC PANEL 104 - CB 670 DEMOLITION



4555 W Memorial Rd.
Oklahoma City, OK 73142

ISSUED FOR BID

GRAND RIVER DAM AUTHORITY
STILLWATER KINZIE INTERCONNECT S351
STILLWATER, OKLAHOMA 138/69kV

DRAWING INDEX

DESCRIPTION: REVISED FOR CONDUIT ENTRY TO BUILDING	4	RF022-01145	9/20/2023	NC	BE	CP	NC													
DESCRIPTION: ISSUED FOR BID	3	RF022-01145	8/24/2023	NC	BE	CP	NC													
DESCRIPTION: ISSUE FOR REVIEW	2	RF022-01145	8/14/2023	CP	BE	JS	-													
DESCRIPTION: F6 PNL REPLACEMENT & CAP BANK BKR ADDITION	1	RF022-01145	5/9/23	NC	BE	LA	NC													
REV. NO.	JOB NO.	DATE	DESIGN ENGR	DFT	DESIGN CHECK	ISSUE APPROV														



ENGINEER: NC
DRAWN BY: RE
CHECKED BY: LA
APPROVED BY: NC

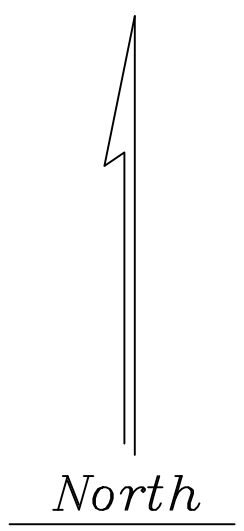
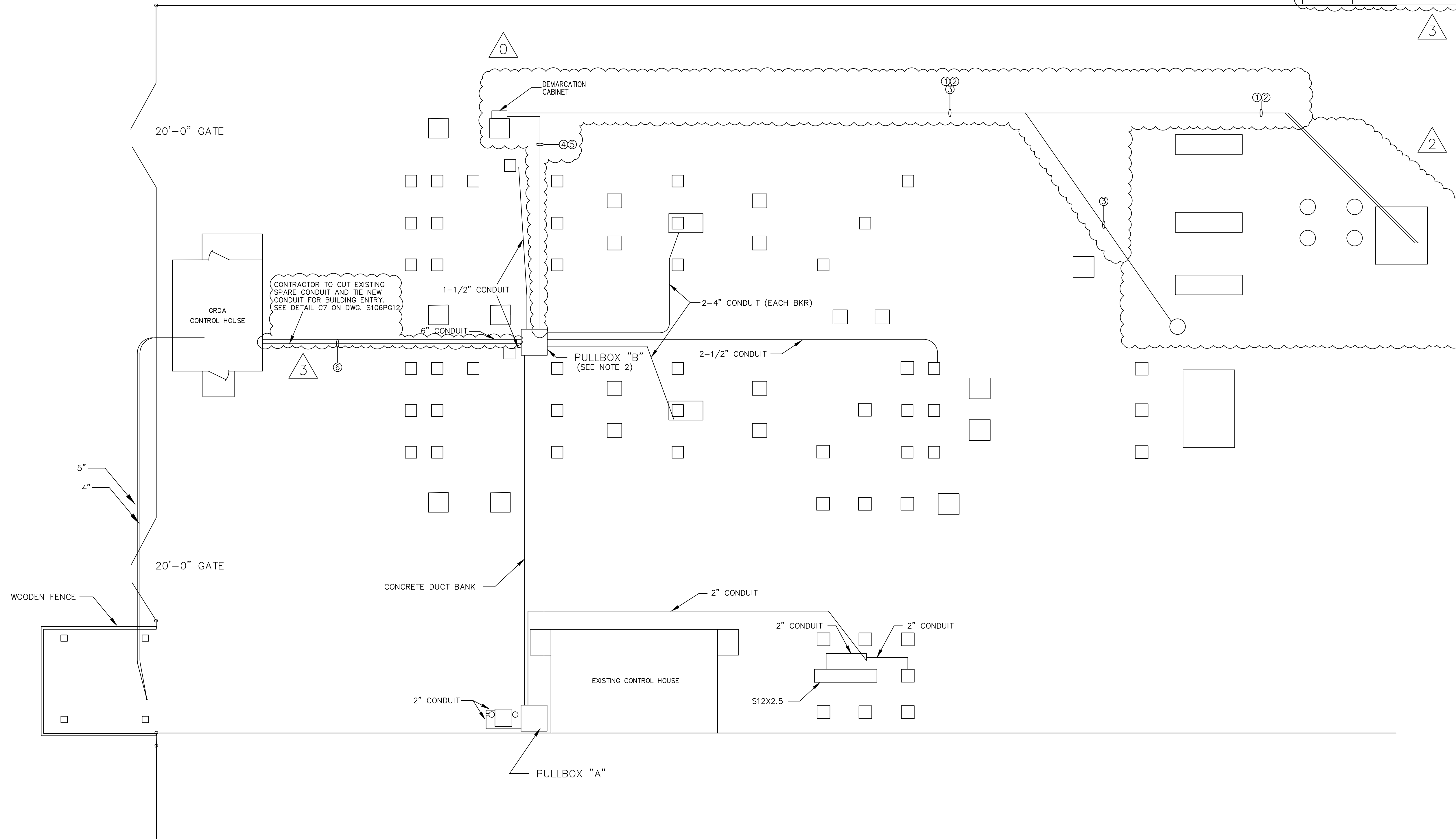
SCALE: NONE
DRAWING NO. S351DZ01
OLD DRAWING NO.:

DATE: 08/22/22
SHEET 1 OF 1

REV. 4

P.O. BOX 669
CHOUTEAU, OK 74337

CONDUIT SCHEDULE - 2023 CONSTRUCTION				
NO.	FROM	TO	SIZE	PURPOSE
1	BKR. NO. 81	DEMARCATON CABINET	4"	BKR. PRI. CURRENTS & CONTROL
2	BKR. NO. 81	DEMARCATON CABINET	4"	BKR. ALT. CURRENTS & CONTROL
3	CAP. BANK RPD J-BOX	DEMARCATON CABINET	2"	CAP. BANK NEUTRAL POTENTIAL
4	DEMARCATON CABINET	PULL BOX 'B'	4"	CABLES TO BUILDING
5	DEMARCATON CABINET	PULL BOX 'B'	4"	CABLES TO BUILDING
6	PULL BOX 'B'	CONTROL HOUSE	4"	CABLES TO BUILDING



REFERENCE DRAWINGS:
 ED-10 CONDUIT PLAN (CITY)
 S351PE01 ELECTRICAL PLAN
 S351PG11 CONDUIT DETAILS

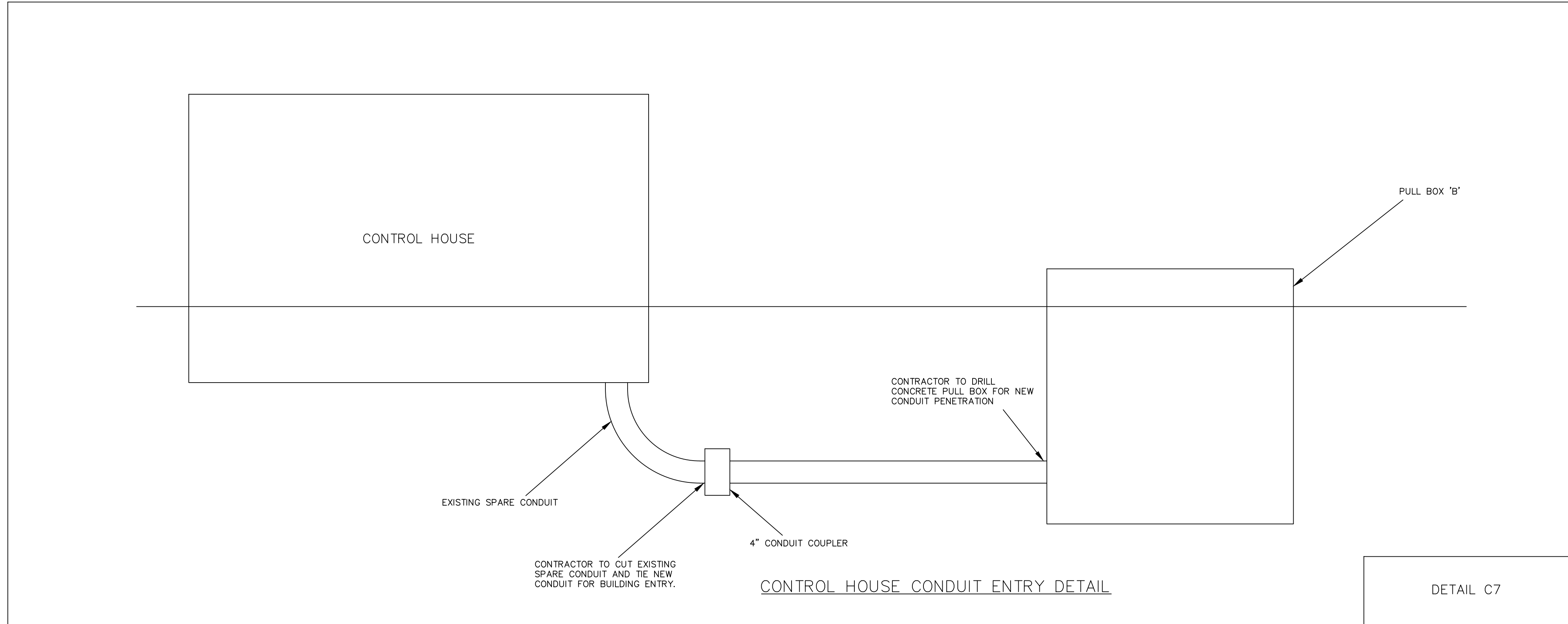
NOTES:

1. RUN 1-1/2" CONDUITS BETWEEN METERING UNIT TERMINAL BOXES.
2. FOR PULLBOX SECTIONS & DETAILS SEE GRDA DWG. D1402.
3. FOR CITY CONDUITS SEE DWG. ED-10.



DESCRIPTION: REVISED FOR CONDUIT ENTRY TO BUILDING		3		RF022-01145	9/20/2023	NC	BE	CP	NC
DESCRIPTION: ISSUED FOR BID		2		RF022-01145	8/24/2023	NC	BE	TM	NC
DESCRIPTION: CAPACITOR BANK BREAKER ADDITION		1		RF022-01145	8/14/2023	CP	BE	JS	-
DESCRIPTION: CAPACITOR BANK BREAKER ADDITION		0		RF022-01145	5/9/23	NC	BE	LA	NC
REV. NO.	JOB NO.	DATE	DESIGN ENGR.	DFTR	DESIGN CHECK	ISSUE APPROVD			

GRAND RIVER DAM AUTHORITY STILLWATER KINZIE INTERCONNECT S351 STILLWATER, OKLAHOMA 138/69KV			
CONDUIT LAYOUT			
ENGINEER: NC	SCALE: 3/32"=1'-0"	DATE: 8/22/2022	REV. 3
DRAWN BY: RE	DRAWING NO. S351PG10	SHEET 1 OF 1	
CHECKED BY: LA	APPROVED BY: NC	OLD DRAWING NO.:	



DESCRIPTION: REVISED FOR CONDUIT ENTRY TO BUILDING							GRAND RIVER DAM AUTHORITY STILLWATER KINZIE INTERCONNECT S351 STILLWATER, OKLAHOMA 138/69KV																																																
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