PANEL: HOUSE (HP)
LOCATION: UTILITY ROOM
FEEDER SOURCE: CLECO

VOLTAGE: 120/240V, 1Φ, 3W
ENCLOSURE: FLUSH MOUNTED 200A LOADCENTER, 22K AIC,
200A MB, EQUIPMENT GND BAR

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA) AΦ / BΦ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1	8	A/C CONDENSING UNIT 3_1/2 TON 12.31 kW	40	2	3120	6960	2	60	AIR HANDLING UNIT 3_1/2 TON 10kW	6	2
3					3120	6960					4
5	8	WATER HEATER 50 GALLON	40	2	4500	1700	2	20	GRINDER PUMP/LIFT STATION	12	6
7					4500	1700					8
9	12	DINING ROOM 104 RECEPTACLES & DOOR BELL	20	1	800	160	1	20	DEDICATED REFRIGERATOR RECEPTACLE	12	10
11	12	KITCHEN 105 COUNTER-HEIGHT GFI RECEPTACLES	20	1	800	1400	1	20	JUNCTION BOX FOR RANGE EXHAUST	12	12
13	6	JUNCTION BOX FOR RANGE	50	2	4800	2500	2	30	DRYER	8	14
15					4800	2500					16
17	12	DEDICATED RECEPTACLE FOR WASHER	20	1	160	960	1	20	BEDROOM 1/ROOM 111 & CLOSET 112 RECEPTACLES	12	18
19	12	BATHROOM 113 & MASTERBATH 118 GFI RECEPTACLES	20	1	320	640	1	20	EXTERIOR WEATHER-PROOF GFI RECEPTACLES	12	20
21	12	LIVING ROOM 103, MASTER BEDROOM 116, HALL 109, & ATTIC RECEPTACLES	20	1	1440	960	1	20	BEDROOM 2/ROOM 114 RECEPTACLES	12	22
23	12	SMOKE DETECTORS	20	1	1800	415	1	20	FRONT PORCH LIGHTS, FOYER LIGHT, & LIVING RM CEILING FAN/LIGHT	12	24
25	12	LIVING ROOM 103 CAN LIGHTS	20	1	960	1680	1	20	KITCHEN 105 CAN LIGHTS	12	26
27	12	LIVING ROOM 103 CAN LIGHTS	20	1	960	1600	1	20	DINING ROOM 104 LIGHTS & CEILING FAN	12	28
29	12	KITCHEN 105 PENDANT & CEILING-MOUNT LIGHTS	20	1	280	408	1	20	HALL 106, UTILITY ROOM 108, & REAR PORCH LIGHTS	12	30
31	12	HALL 109, HALL 110, & BATHROOM 113 LIGHTS	20	1	660	1320	1	20	MASTER BEDROOM 114 ALCOVE, MASTER CLOSET 117, & MASTER BATH 118 LIGHTS	12	32
33	12	MASTER BEDROOM 116 CEILING FAN & LIGHTS	20	1	1480	1580	1	20	BEDROOM 1/ROOM 111 CEILING FAN & LIGHTS, CLOSET 112 LIGHT	12	34
35	12	EXTERIOR FLOOD LIGHTS	20	1	960	1700	1	20	GARBAGE DISPOSAL	12	36
37	12	BEDROOM 2/ROOM 114 CEILING FAN & LIGHTS	20	1	1480	1280	1	20	LIVING ROOM 103 RECEPTACLES	12	38
39	12	JUNCTION BOX FOR DISHWASHER	20	1	1800	-	1	20	SPARE	12	40
41	12	SPARE	20	1	-	-	1	20	SPARE	12	42

SOLID NEUTRAL NEUTRAL WIRE (N)
TOTAL CONNECTED LOAD (VA)=63,663
AΦ=31,908 BΦ=31,755
GROUND BUS
GROUND WIRE (G)

LUMINAIR SCHEDULE

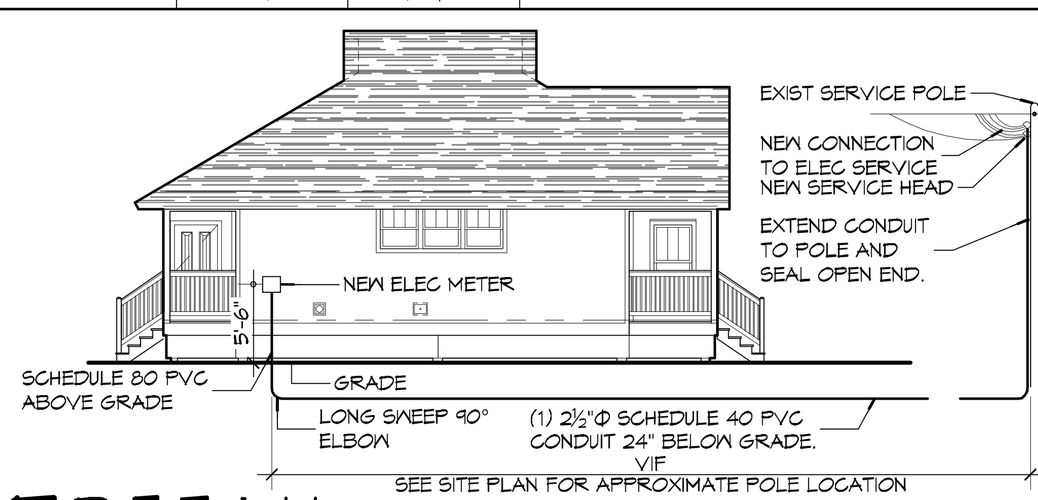
ID	DESCRIPTION	MOUNTING	MFR	PART #	FINISH	LAMPS #	LAMP TYPE	WATTAGE	FIXTURE NOTES	INSTALLATION NOTES
L-1	4-LIGHT CHANDELIER	SURFACE	LEBACH	34618	BRUSHED NICKEL	4	HALOGEN G9 PIN BASE	160		HARDWIRED
L-10	SHELDON COLLECTION BATH BAR	WALL	HAMPTON BAY	EW1315BA	BRUSHED NICKEL	4	A19 LED BULB W/ E-26 MEDIUM BASE	240		HARDWIRED
L-11	AIRTIGHT IC RATED RECESSED HOUSING W/ LIGHT TRIM	RECESSED	HALO	356678	WHITE	1	A19 LED BULB W/ E-26 MEDIUM BASE	240	HOUSING: JUNO #97543 AIRTIGHT IC RATED	HARDWIRED
L-11	AIRTIGHT IC RATED RECESSED HOUSING W/ LIGHT TRIM	RECESSED	HALO	356678	WHITE	1	A19 LED BULB W/ E-26 MEDIUM BASE	90	HOUSING: JUNO #97543 AIRTIGHT IC RATED	HARDWIRED
L-12	AIRTIGHT IC RATED RECESSED HOUSING W/ SHOWER LIGHT TRIM	RECESSED	JUNO	54698	WHITE	1	A19 LED BULB W/ E-26 MEDIUM BASE	240	HOUSING: JUNO #97543 AIRTIGHT IC RATED	HARDWIRED
L-13	AIRTIGHT IC RATED RECESSED HOUSING W/ OPEN LIGHT TRIM	RECESSED	UTILITECH	409540	WHITE	1	A19 LED BULB W/ E-26 MEDIUM BASE	240	HOUSING: JUNO #97543 AIRTIGHT IC RATED	HARDWIRED
L-14	OUTDOOR WALL-MOUNT LIGHT	WALL	PROGRESS LIGHTING	565440	BRUSHED NICKEL	1	A19 LED BULB W/ E-26 MEDIUM BASE	75		HARDWIRED
L-15	CEILING FLUORESCENT LIGHT	SURFACE	PORTFOLIO	GL4548-4T 8-BA	BRUSHED ALUM	4	T8	128		HARDWIRED
L-16	180 DEG MOTION-ACTIVITATED FLOOD LIGHT W/ TIMER	FLUSH	UTILITECH	UT-5412-WH	WHITE	2	PAR38 W/ MEDIUM BASE (E-26)	240		HARDWIRED, MOUNT IN SOFFIT
L-17	INCANDESCENT LAMPHOLDER	SURFACE	LEVITHON	9875	WHITE	1	A19 LED BULB W/ E-26 MEDIUM BASE	75	INSTALL IN ATTIC	HARDWIRED
L-2	15 IN CEILING MOUNT FIXTURE	SURFACE	BELL AIR LIGHTING	13882BN	BRUSHED NICKEL	3	A19 LED BULB W/ E-26 MEDIUM BASE	180		HARDWIRED
L-3	WISTEN 3 7/8" MINI PENDANT	PENDANT	PROGRESS LIGHTING	P5167-09	BRUSHED NICKEL	1	A19 LED BULB W/ E-26 MEDIUM BASE	100		HARDWIRED
L-4	SEMI-FLUSH MOUNT LIGHT	SEMI-FLUSH	DVI	DVP9112BN	BRUSHED NICKEL	2	A19 LED BULB W/ E-26 MEDIUM BASE	200		HARDWIRED
L-5	ALBION SERIES 6" SEMI-FLUSH MOUNT LIGHT	SEMI-FLUSH	Z-LITE	171-6W-SF	BRUSHED NICKEL	2	A19 LED BULB W/ E-26 MEDIUM BASE	60		HARDWIRED
L-6	CEILING MOUNTED FIXTURE	FLUSH	PROGRESS LIGHTING	P3410-09	BRUSHED NICKEL	2	A19 LED BULB W/ E-26 MEDIUM BASE	60		HARDWIRED
L-8	WINDMERE SERIES CEILING FAN W/ LIGHT KIT	DOWNROD	HUNTER	59039	BRUSHED NICKEL	2	B10 BULB W/ E-12 CANDELABRA BASE	40		HARDWIRED
L-9	OUTDOOR FLUSH-MOUNT LIGHT	FLUSH	VOLUME INTERNATIONAL	V8790-6	WHITE	1	A19 LED BULB W/ E-26 MEDIUM BASE	100	PROVIDE COMPATIBLE LED LAMP	HARDWIRED

GENERAL ELECTRICAL NOTES

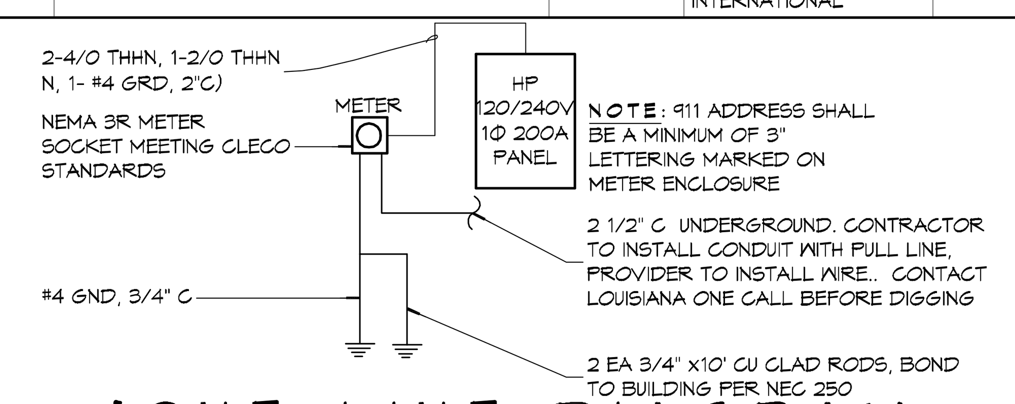
1. DRAWINGS ARE DIAGRAMMATIC ONLY. FURNISH ALL CONDUIT, WIRING, PANELS, BREAKERS, DISCONNECTS, ACCESSORIES, ETC. FOR COMPLETE INSTALLATION RATHER OR NOT EVERY ITEM IS SHOWN OR SPECIFIED.
2. THESE DRAWINGS ARE INTENDED AS GENERAL GUIDELINES FOR PURPOSES OF ESTABLISHING CERTAIN MIN. CRITERIA, AND DO NOT NECESSARILY REPRESENT THE FINAL LAYOUT, ARRANGEMENT, SIZE, BRAND NAME, CAPACITY OR OTHER CHARACTERISTICS OF THE ENGINEERED SYSTEM. SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND REQUIREMENTS OF LOCAL UTILITY OFFICIALS.
3. INSTALL GFCI OUTLETS AS REQUIRED BY APPLICABLE CODES.
4. INSTALL HARDWIRED SMOKE DETECTORS WITH BATTERY BACKUP AS REQUIRED. INTER- CONNECT DETECTORS SO THAT ALL WILL SOUND SHOULD ONE DETECTOR ACTIVATE.
5. SOME EQUIPMENT SHOWN ON OTHER PLANS MAY REQUIRE ELECTRICAL SERVICE, SUCH AS WATER HEATER, CONDENSING UNITS, AIR-HANDLING UNITS, CONDENSATE PUMPS, ETC... ELECTRICAL CONTRACTOR SHALL INCLUDE ELECTRICAL SERVICE TO ALL SUCH EQUIPMENT. COORDINATE WITH OTHER TRADES CONCERNING CONCERNING ITEMS REQUIRING ELECTRICAL SERVICE. PROVIDE ONE DUPLEX OUTLET AND LIGHT IF UNIT IS IN NONLIT AREA FOR EVERY CONDENSING UNIT AND EVERY AIR-HANDLING UNIT AS REQUIRED BY APPLICABLE CODES. OUTLETS SHALL BE WEATHERPROOF GFCI IF UNIT IS EXPOSED TO WEATHER.
6. OBTAIN NAME PLATE AND RATING OF ALL EQUIPMENT BEFORE ROUGHING IN AND PROVIDE WIRING OF PROPER SIZE, VOLTAGE, AND AMPACITY. PROVIDE FUSED OR NON-FUSED DISCONNECT SWITCH AS REQUIRED.
7. PROVIDE PANEL BOARDS OF PROPER VOLTAGE AND AMPACITY FOR ALL ELECTRICAL CIRCUITS.
8. VERIFY SERVICE REQUIREMENTS WITH LOCAL POWER COMPANY INCLUDING TRANSFORMER LOCATIONS AND TYPES, DISCONNECTS AT EXTERIOR OF BLDG., VOLTS AND AMPACITIES AND OTHER DETAILS OF ELECTRICAL CONSTRUCTION. SIZE ALL FEEDERS ACCORDING TO NEC REQUIREMENTS.
9. RUN ALL CABLE CONCEALED IN WALLS, CEILINGS OR FLOORS UNLESS NOTED OTHERWISE.
10. SUPPORT ALL FIXTURES AND OTHER ITEMS RIGIDLY FROM STRUCTURE.
11. INSULATE AND SEAL SOLIDLY BEHIND RECEPTACLES IN EXTERIOR WALLS.
12. ALL SWITCHES AND OULTETS ON FIRST FLOOR TO BE 1'-0" ABOVE BASE FLOOD ELEVATION.
13. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WEATHERPROOF.
14. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
15. ALL OUTLETS SHALL BE INSTALLED 18" AFF UNLESS NOTED OTHERWISE. SEE ELECTRICAL POWER PLAN FOR INDICATED MOUNTING HEIGHT.
16. REFER TO REFLECTED CEILING PLAN FOR RECESSED LIGHT FIXTURE LOCATIONS.

GENERAL UTILITY NOTES

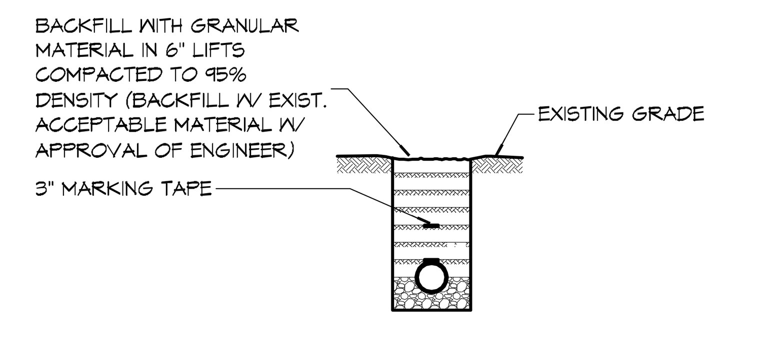
1. SCH. 80 PVC CONDUIT WHERE PIPE IS EXPOSED ABOVE GRADE. TRANSITION TO SCH.40 PVC BELOW GRADE. ALL 90° ELBOWS TO BE LONG SWEEP TYPE.
2. 120/240V 1Φ 200A SERVICE FROM UTIL. CO., FEEDER BY UTIL. CO TO METER BOX. FIELD LOCATE TRANSFORMER ON POLE AND COORDINATE WITH ELEC. COMPANY REGARDING NEW ELECTRICAL SERVICE CONNECTION.
3. CONTACT LOUISIANA ONE CALL BEFORE DIGGING.



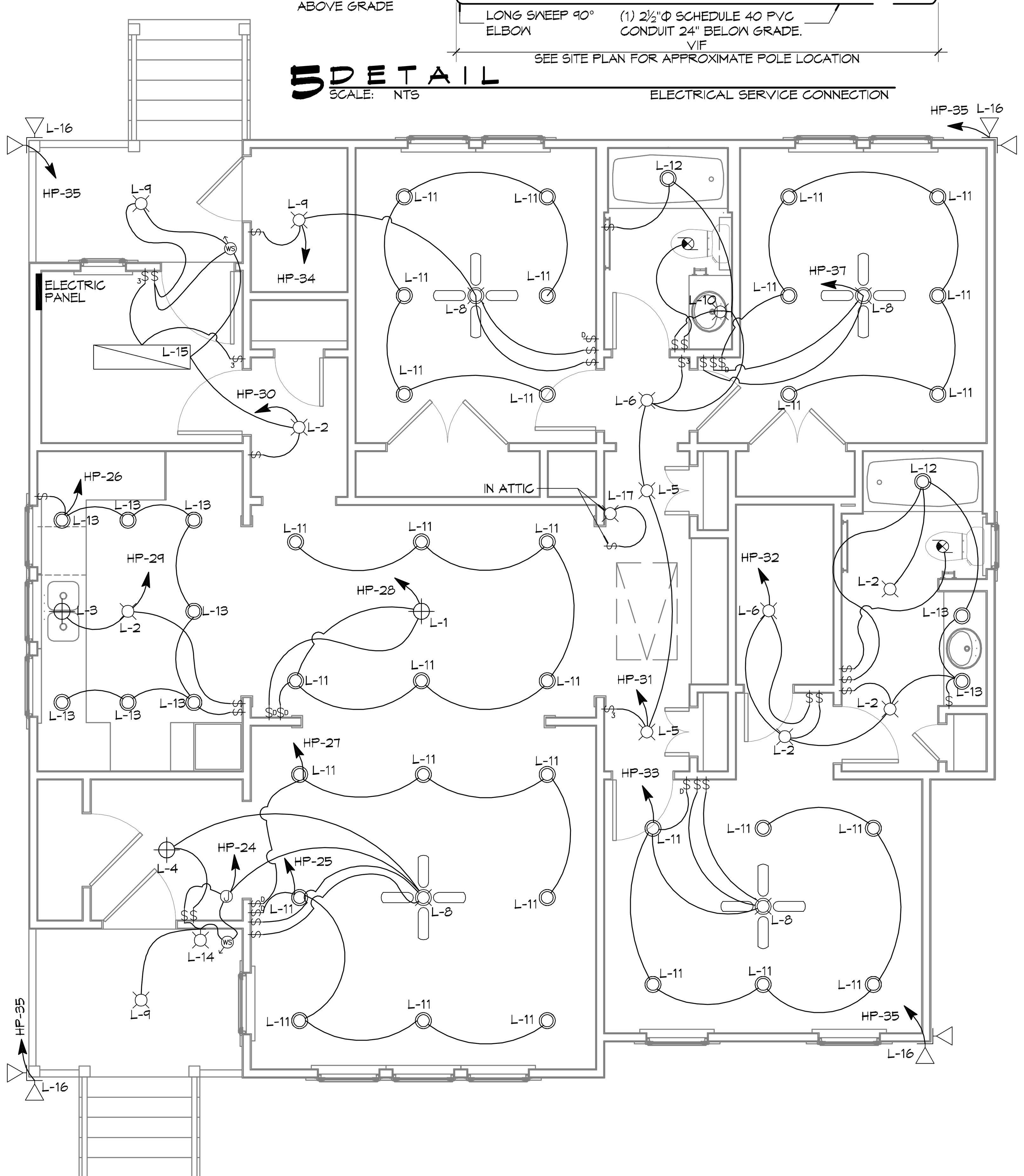
5 DETAIL
SCALE: NTS
ELECTRICAL SERVICE CONNECTION



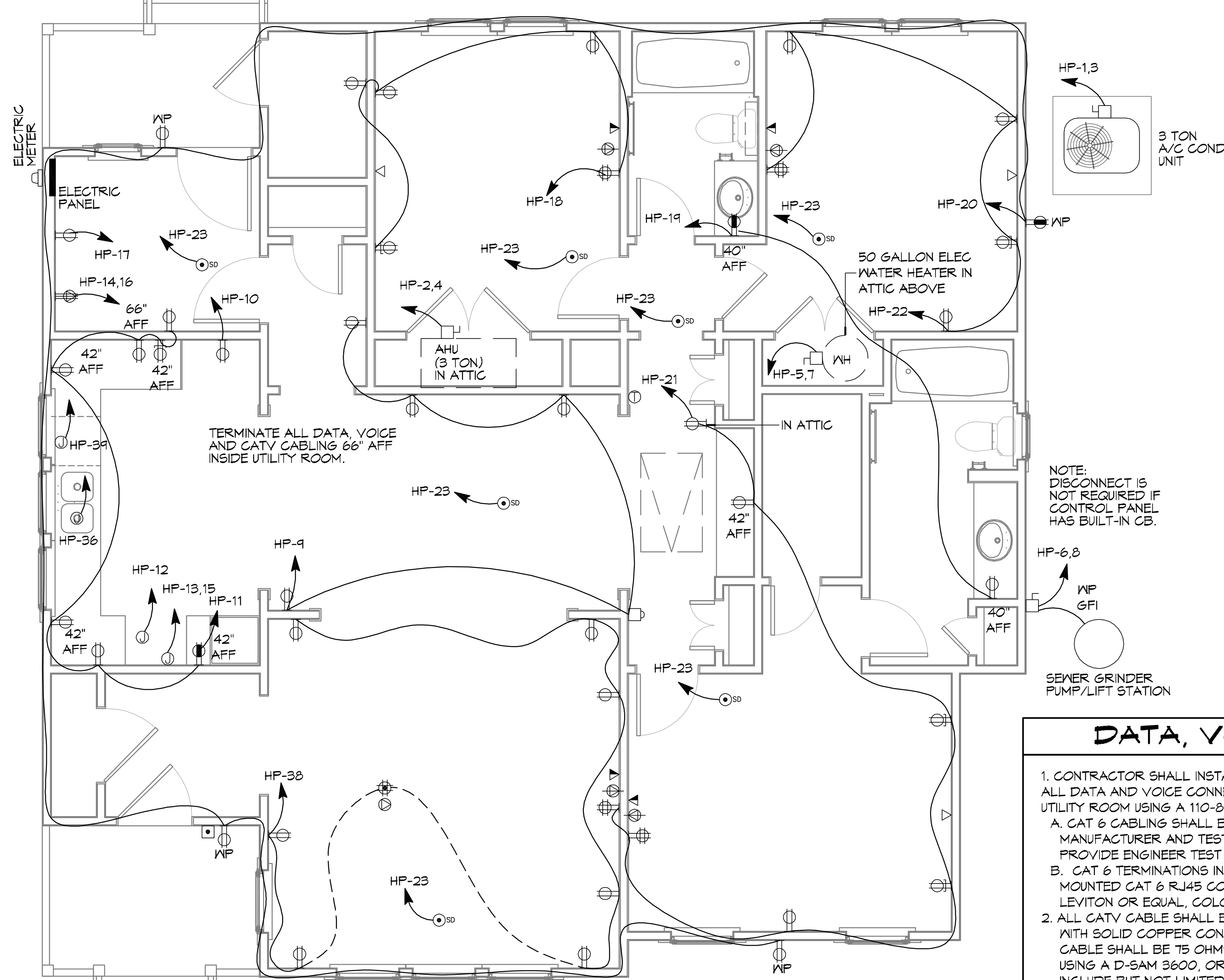
4 ONE-LINE DIAGRAM
SCALE: NTS



3 DETAIL
SCALE: NTS
ELECTRICAL SERVICE CONDUIT



2 ELECTRICAL PLAN-LIGHTING
SCALE: 1/4" = 1'-0"



1 ELECTRICAL PLAN - POWER
SCALE: 1/4" = 1'-0"

DATA, VOICE AND COAX

1. CONTRACTOR SHALL INSTALL CAT 6 CABLING, BELDEN OR EQUAL, FOR ALL DATA AND VOICE CONNECTIONS. TERMINATE ALL CAT 6 CABLES IN UTILITY ROOM USING A 110-8 PORT RJ-45 PATH PANEL, PANDUIT OR EQUAL.
   A. CAT 6 CABLING SHALL BE TERMINATED USING STANDARD SPECIFIED BY MANUFACTURER AND TESTED USING A CERTIFIED CABLE ANALYZER. PROVIDE ENGINEER TEST RESULTS FOR EACH CABLE DROP.
   B. CAT 6 TERMINATIONS INSIDE THE RESIDENCE, SHALL USE A FLUSH MOUNTED CAT 6 RJ45 CONNECTOR PORT WITH PLASTIC COVER PLATE, LEVITON OR EQUAL, COLOR BY ARCHITECT.
2. ALL CATV CABLE SHALL BE RG-6 COPPER SHIELDED, COAXIAL CABLE WITH SOLID COPPER CONDUCTOR, BELDEN OR EQUAL. ALL COAXIAL CABLE SHALL BE 75 OHMS. CONTRACTOR TO CERTIFY ALL DROPS USING A D-SAM 3600, OR EQUAL, NETWORK ANALYZER. TEST SHALL INCLUDE BUT NOT LIMITED TO NOISE MITIGATION.
   A. CATV CABLE TERMINATION:
      1). ALL "F" CONNECTORS TO BE ENVIRONMENTALLY SEALED, COMPRESSION TYP FITTINGS.
      2). ALL RF SIGNAL DISTRIBUTIONS COAXIAL CABLE AT THE "USER END" SHALL BE TERMINATED WITH FEMALE "F" CONNECTOR WITH A PLASTIC COVER PLATE, LEVITON OR EQUAL, COLOR BY ARCHITECT.
3. WHERE DATA AND CATV ARE INSTALLED IN THE SAME LOCATION A SINGLE COVER PLATE SHALL BE USED, COLOR BY ARCHITECT.

ELECTRICAL POWER LEGEND

Symbol description	Symbol description
DUPLEX OUTLET	220 VOLT DRYER OUTLET
42" AFF COUNTER-HT DUPLEX OUTLET	120V SMOKE DETECTOR W/ 9VDC BATTERY BACKUP
QUAD OUTLET	COAXIAL OUTLET
DUPLEX OUTLET W/ USB CHARGER	THERMOSTAT
FLOOR QUAD OUTLET	DISCONNECT DOOR BELL
FLOOR TELEPHONE BOX	JUNCTION BOX
DATA OUTLET (WALL)	DOOR BELL JUNCTION BOX
TELEPHONE OUTLET (WALL)	DOOR BELL
GROUND FAULT INTERRUPTER (GFCI)	WIRING CONCEALED IN CEILING OR WALL
WP GFCI OUTLET W/ WEATHER PROOF COVER	WIRING CONCEALED IN FLOOR
METER	EXPOSED WIRING
	HOME RUN TO PANEL BOARD

ELECTRICAL LIGHTING LEGEND

Symbol description	Symbol description
FAN/LIGHT COMBINATION	WALL MOUNTED LIGHT FIXTURE
RECESSED LIGHT FIXTURE (6"Φ)	$ WALL SWITCH - SINGLE POLE
SURFACE MOUNTED LIGHT FIXTURE	$3 WALL SWITCH - THREE-WAY
PENDANT LIGHT FIXTURE	$D WALL SWITCH - DIMMER
EXHAUST FAN	MOTION ACTIVATED FLOOD LIGHT
EXHAUST FAN/HEATER/LITE	EXHAUST FAN/HEATER
	WS MOTION SENSOR W/ PHOTOCELL

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REVISIONS

#	DESCRIPTION	DATE

SEAL:
KEVIN J. KINCHEN Reg. No. 5590 STATE OF LOUISIANA REGISTERED ARCHITECT
8/22/2014

95% SUBMITTAL
NOT FOR
CONSTRUCTION

LOUISIANA ARMY NATIONAL GUARD

CAMP VILLERE
NEW HOME CONSTRUCTION

CAMP VILLERE, LOUISIANA

JOB No: 2210	DATE: AUGUST 22, 2014
DRAWN BY: KJK	CHECKED BY: CKD

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SHEET TITLE:
ELECTRICAL PLANS - POWER, LIGHTING, AND PANEL DIAGRAMS

DRAWING NUMBER:
E1