

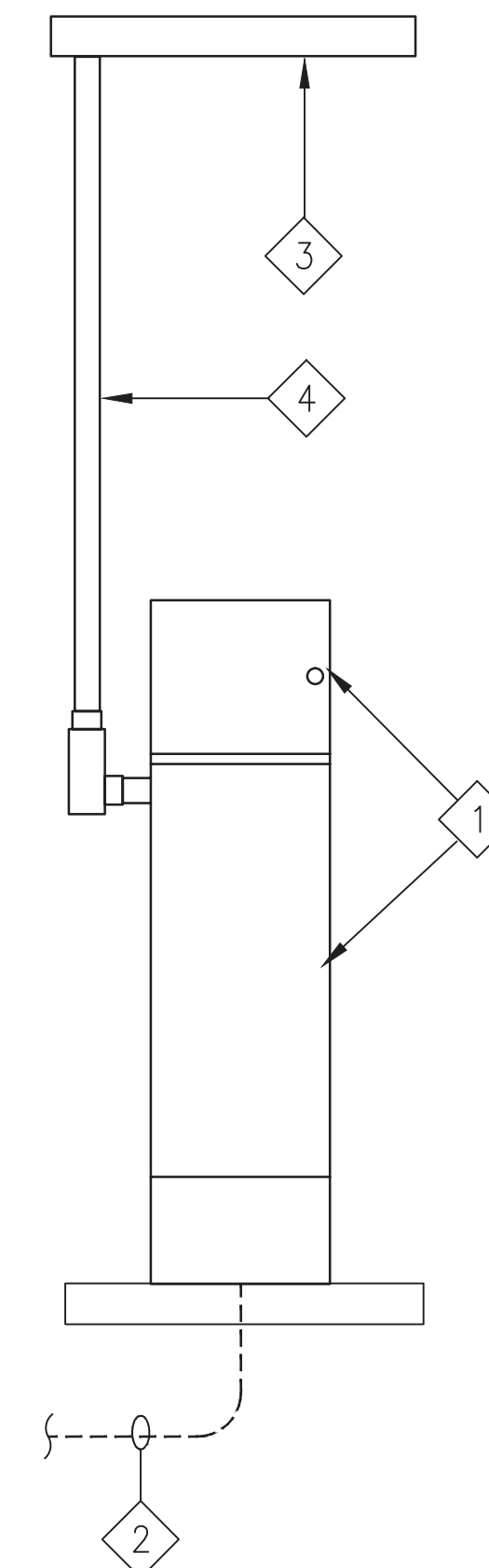
SYMBOL LIST

LIGHTING	
A	WALL MOUNTED FIXTURE, (SLV) FINISH. REFER TO LUMINAIRE SCHEDULE IN DRAWING "E2.1" FOR DESCRIPTION OF ALL LUMINAIRES.
C	FLUORESCENT FIXTURE PROVIDED WITH EMERGENCY BACK-UP BATTERY
SWITCHES	
§	SINGLE POLE TOGGLE SWITCH 20A-125V. MOUNT 48" AFF
RECEPTACLES & OUTLETS	
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE, 20A-125V
	SURFACE MOUNTED GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE, 20A-125V
	CONVENIENCE DUPLEX RECEPTACLE, 20A-125V, FOR USE IN GENERAL AREAS.
	JUNCTION BOX
COMMUNICATIONS AND FIRE ALARM EQUIPMENT	
	SINGLE GANG OUTLET BOX AND TWO PORT COVER PLATE WITH BLANKS WITH EMPTY 3/4" TO ACCESSIBLE AREA ABOVE CEILING.
	TAMPER SWITCH
	WATER FLOW SWITCH
	SMOKE DETECTOR
	MANUAL PULL STATION MTD 48" AFF
	FIRE ALARM AUDIO/VISUAL DEVICE WITH HORN AND STROBE
	FIRE ALARM VISUAL STROBE DEVICE
	RECESSED WATERPROOF FIRE ALARM HORN
MOTOR CONTROLLERS AND EQUIPMENT	
	SAFETY DISCONNECT, SIZE AS REQUIRED
ELECTRICAL EQUIPMENT	
	120/208V, 3Ø, 4W, DISTRIBUTION PANELBOARD
	LIGHTING CONTROL CABINET
CIRCUITING	
	CONDUIT RUN EXPOSED
	CONDUIT CONCEALED BY FINISH
	CONDUIT IN OR BELOW FLOOR, SLAB, OR GRADE
NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT; SYMBOL LIST PROVIDED FOR REFERENCE AND DRAWING CLARITY.	

ELECTRICAL ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS INDICATED MAY APPEAR ON THESE CONTRACT DRAWINGS

above finished floor	AFF	fire alarm	FA	Manufacturers Association	NEMA
above finished grade	AFG	fire alarm annunciator panel	FAAP	National Electric Code	NEC
accent	ACC	fire alarm control panel	FACP	normally closed	NC
adjustable	ADJ	fire alarm graphic panel	FAGP		NO
alternating current	AC	fire annunciator panel	ANNUN		NL
aluminum	AL	fixture	FIXT	night light	NO
American wire gauge	AWG	floor	FL	normally opened	N/A
ammeter	AM	fluorescent	FLUOR	Not Available/Not Applicable	NIC
ampere	A/AMP	footcandles	FC	not in contract	NTS
approximate(ly)	APPROX	full load amperes	FLA	not to scale	
asymmetric	ASY	full voltage non-reversing	FVNR		OC
automatic transfer switch	ATS	general contractor	GC	on center	OH
battery	BATT	generator	GEN	overhead	OL
black	BLK	ground	GND/G	overload heater element	
bracket	BRKT	ground fault interrupter	GFCI	panel	PNL
breaker	BKR	hand dryer	HD	peewee	PEW
		hand hole	HH	plywood	PLY
		heating ventilating and air conditioning	HVAC	polyvinyl chloride	PVC
cabinet	CAB	high intensity discharge	HID	potential transformer	PT
cable television	CAIV	high power factor	HPF	power panel	PP
ceiling	CLG	hertz	HZ	pull box	PB
circuit	CKT	high voltage	HV		
circuit breaker	CKT BKR	horsepower	HP	rapid start	RS
clear	CLR	incandescent	INCAN	receptacle	REC/RECEPT
closed circuit television	CCTV	isolated ground	IG	reflector	REFL
column	COL	junction box	JB or Jct Box	required	REQ'D
communication	COMM			rigid galvanized steel conduit	RGS
conduit	C			room	RM
cool white	CW	kilovar (reactance)	KVAR	schedule	SCHED
copper	CU	kilovolt ampere	KVA	single pole double throw	SPDT
current limiting fuse	CLF	kilowatt	KW	single pole single throw	SPST
current transformer	CT	kilowatt hour meter	KWH	solid state ballast	SSB
				surge protection device	SPD
		inverter power supply	IPS	switch	SW
				switchboard	SWBD
				switchgear	SWGR
decibel	DB	light	LT	telephone	TEL
dedicated	DED	lighting	LTG	transformer	XFMR
diameter	Ø	lighting arrester	LA	transient voltage surge suppressor	TVSS
direct current	DC	low voltage	LV	twin tube	TT
disconnect	DISC			typical	TYP
distribution panel	DP	main circuit breaker	MCB	underground	UG
double pole double-throw	DPDT	main distribution panel	MDP	Underwriter's Laboratories	UL
downtight	DNLT	main lugs only	MLO	uninterruptable power supply	UPS
drawing	DWG	manhole	MH	unless otherwise noted	UON
dual element	DE	manufacturer	MFR	vapor proof	VP
		master antenna television	MATV	volt	V
each	EA	mechanical contractor	MC	voltmeter	VM
electric water cooler	EWC	medium voltage	MV		
electrical	ELEC	metal halide	MH	warm white	WW
electrical contractor	EC	metal-clad cable	MC	watt	W
electrically operated	EO	miscellaneous	MISC	weatherproof	WP
elevation	EL	motor circuit protector	MCP	with	W/
elevator	ELEV	motor control center	MCC	within	W/I
emergency	E/EMERG	motor operated damper	MDD	without	W/O
energy saving ballast	ESB	mounted	MTD		
equipment	EQUIP	mounting height	MTG HT		
exhaust fan	EF				
explosion proof	XP				



4 TELEPHONE CABINET DETAIL

NOT TO SCALE

KEYED PHONE CABINET NOTES.

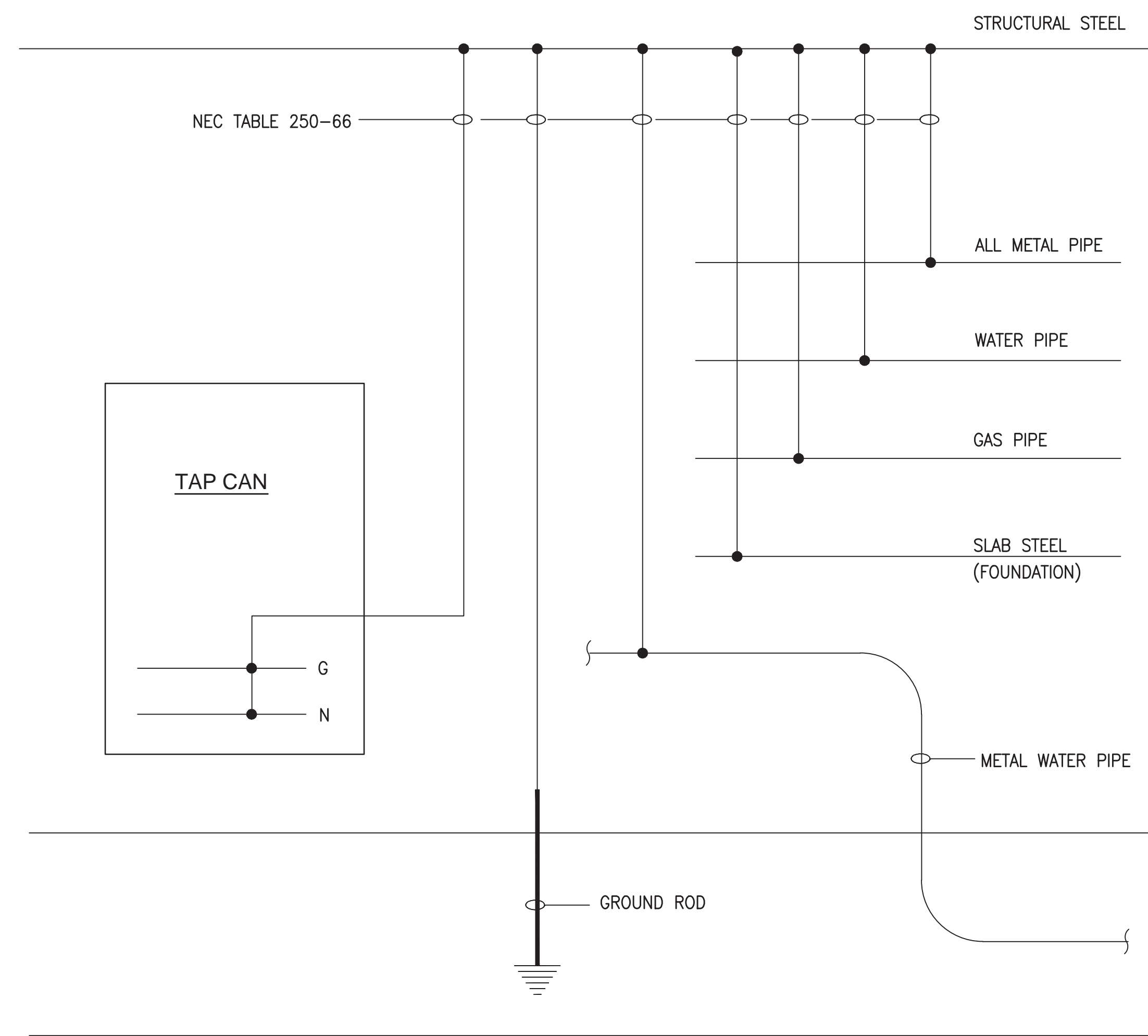
- 1 TELEPHONE AND SPLICE ENCLOSURE FURNISHED AND INSTALLED BY TELEPHONE CO. COORDINATE INSTALLATION. PROVIDE GROUND AS REQUIRED BY TELEPHONE CO.
- 2 CONNECT TO AND EXTEND (1) ONE SCHED 40PVC CONDUIT WITH PULLCORD. STUB-UP 4" ABOVE FINAL PAVING INSIDE SPLICE ENCLOSURE AS REQUIRED BY TELEPHONE COMPANY.
- 3 PROVIDE 8"x8"x36" NEMA 3R SCREW COVER WIREWAY AT JOIST SPACE ABOVE. STUB THROUGH BACK OF WIREWAY 4" INTO JOIST SPACE, (1)ONE 1"(EMT) FOR EVERY COLUMN BAY FOR FUTURE TENANTS TELEPHONE CABLES. LOCATIONS SERVING FIRE SPRINKLER MONITORING PANELS CONNECT (1)ONE 1"(EMT) INTO BACK OF WIREWAY. COORDINATE REQUIREMENTS WITH TELEPHONE CO.. SEAL ALL WALL PENETRATIONS, PAINT COLOR SELECTED BY ARCHITECT.
- 4 PROVIDE (1)ONE 2"(EMT) WITH PULLCORD FROM AN "LB" FITTING AT TELEPHONE CABINET UP WALL TO BOTTOM OF WIREWAY WITH WP HUB. SECURE WITH 2-HOLE STRAPS, BOLTS AND EXPANSION ANCHORS. COORDINATE REQUIREMENTS WITH TELEPHONE COMPANY. PAINT COLOR SELECTED BY ARCHITECT.

TELEPHONE CABINET EXTERNAL TERMINATION NOTES.

FOLLOWING ARE STANDARD TELEPHONE COMPANY SPECIFICATIONS FOR ENTRANCE CONDUIT AND GROUNDING REQUIREMENTS FOR TEL. CO. PROVIDED EXTERNAL (WALL MOUNTED) TERMINATION CABINETS.

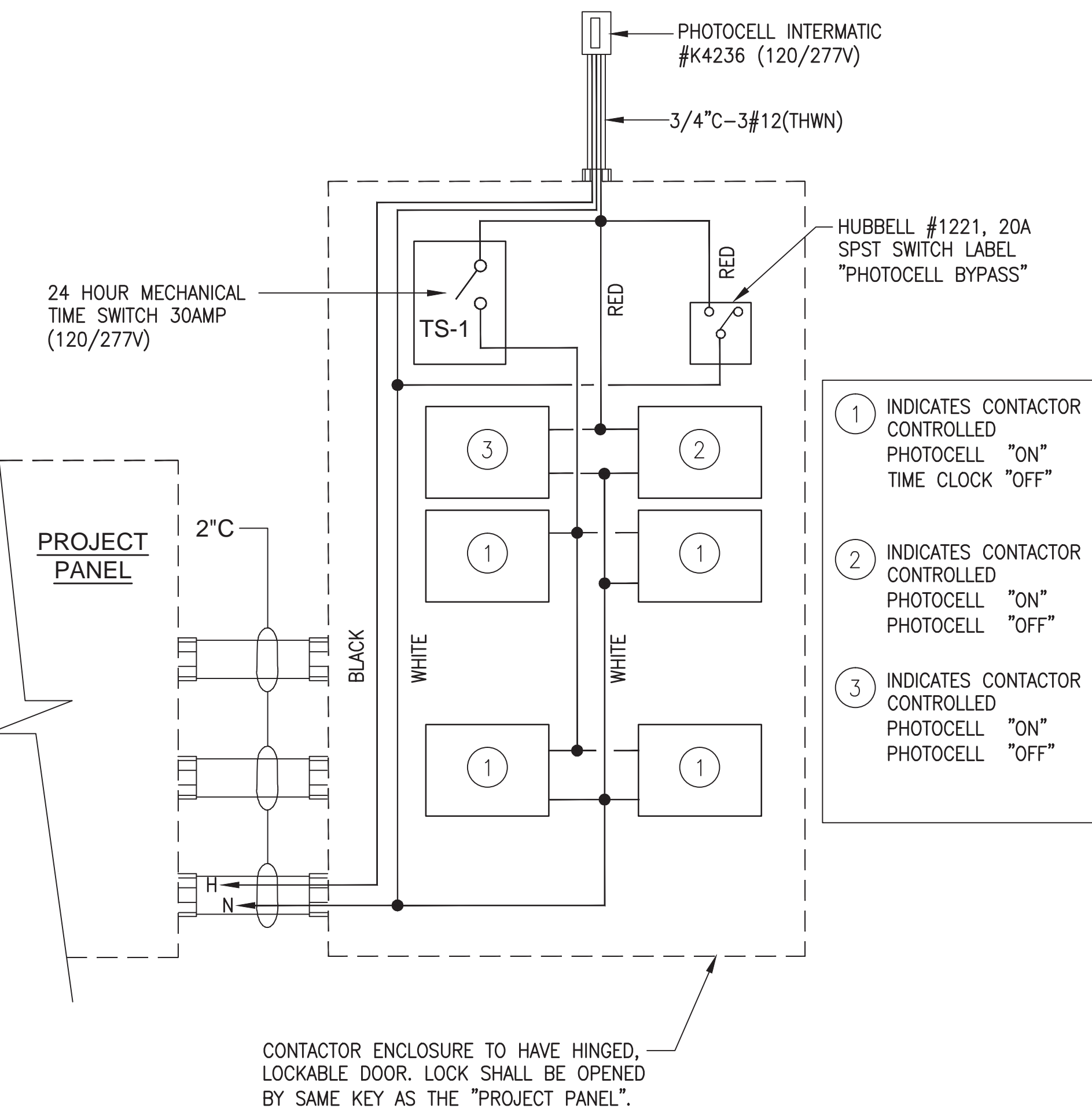
1. ALL UNDERGROUND ENTRANCE CONDUITS SHOULD BE 3" OR 4" SCHEDULE 40 PVC. (2" WILL WORK FOR SHORT RUNS TO SMALL BUILDINGS). *ONE SPARE (VACANT) CONDUIT IS RECOMMENDED FOR ALL LARGE DEVELOPMENTS
2. EQUIP ALL CONDUIT RUNS WITH PULL CORD; CAP CONDUIT ENDS.
3. CONDUIT RUNS GREATER THAN 500' REQUIRE INTERMEDIATE PULL BOXES.
4. EACH RUN SHOULD HAVE NO MORE THAN TWO SWEEPING (LARGE RADIUS) 90° BENDS; ONE AT EACH END.
5. IF MORE THAN TWO LARGE RADIUS 90°BENDS ARE REQUIRED, INTERMEDIATE PULL BOXES SHOULD BE PROVIDED (DEPENDS ON LENGTH).
6. ALL UNDERGROUND ENTRANCE CONDUIT SHOULD BE PLACED A MINIMUM OF 24" TO 30" BELOW FINAL PAVING OR GRADE.
7. TELEPHONE CONDUIT SHOULD BE STUBBED UP OUTSIDE THE PROPERTY LINE, OR IF A UTILITY POLE IS NEAR, STUB UP FLUSH WITH THE POLE (ON OPPOSITE SIDE OF ANY POWER COMPANY RISERS).
8. *NOTE: WHERE TELEPHONE CONDUIT STUBS UP AT THE BUILDING, THE CONDUIT MUST BE FLUSH AT GROUND LEVEL WITH THE EXTERIOR WALL TO ACCOMMODATE CABINET PLACEMENT.
9. TELEPHONE COMPANY WILL PROVIDE AND INSTALL ALL TERMINATION CABINETS.
10. TELEPHONE CABINETS WILL BE INSTALLED AT NORMAL WORKING HEIGHT. (SEE ATTACHED DRAWING)
11. TELEPHONE COMPANY TERMINAL CABINETS WILL NOT BE PLACED IN AREAS WHERE TELEPHONE EQUIPMENT WILL BE SUBJECTED TO PHYSICAL DAMAGE.
12. BUILDING OWNER OR DEVELOPER SHOULD PROVIDE AND INSTALL ALL RISER EQUIPMENT AND HARDWARE. (SEE ATTACHED DRAWING FOR DETAIL)
13. AN INSULATED #6 SOLID COPPER GROUND WIRE MUST BE RUN FROM THE TELEPHONE CABINET TO THE MAIN BUILDING GROUND OR THE POWER GROUND; MAXIMUM LENGTH IS 20' (OWNER PROVIDED)
14. ALL INTERIOR TELEPHONE OUTLET LOCATIONS SHOULD BE PRE-WIRED BACK TO THE EXTERIOR TELEPHONE CABINET. 3/4"-1" ELECTRICAL CONDUIT MAY BE REQUIRED FOR SOME ATTIC INSTALLATIONS. LEAVE 8' TO 10' PRE-WIRE SLACK.
15. ALL TELEPHONE INSTALLATION WORK NEEDS TO BE COMPLETED WELL IN ADVANCE OF THE FIRST SERVICE REQUEST (MINIMUM 15 DAYS) TO ALLOW FOR TURN-UP AND TESTING OF TELEPHONE FACILITIES.

*ORDER OR HIS/HER DESIGNATED TELEPHONE VENDOR IS RESPONSIBLE FOR ALL WIRING AND INSTALLATIONS BEYOND THE NETWORK INSTALLATION



1 SYSTEM GROUNDING DETAIL

NOT TO SCALE



CONTACTOR ENCLOSURE TO HAVE HINGED, LOCKABLE DOOR. LOCK SHALL BE OPENED BY SAME KEY AS THE "PROJECT PANEL".

3 LIGHTING CONTROL DIAGRAM

NOT TO SCALE

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3/6/16

PAD BUILDING AT THE
CROSSROADS MALL
GREENVILLE, TEXAS
GREENVILLE PROPERTIES LTD.
GREENVILLE, TEXAS

DATE: 2/6/15
PROJECT NO.: 08-14-05
DRAWN BY: R.F.V.

ELECTRICAL
DETAILS AND SYMBOLS

E3.1