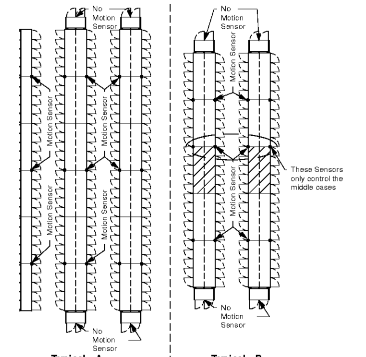


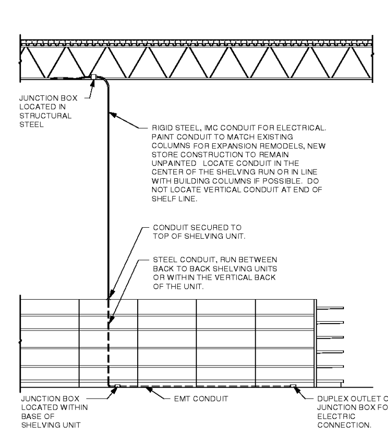
NOTES:

1. The Fixture Electrical Installer shall install each motion sensdoto control 2 cases maximum. When an odd number of cases are in a row one motion sensor will control only one case. See Typical - B.
2. Motion sensors shall only be used on cases in an aisle. No motion sensors are to be placed on end caps, dairy doors, nutrition cases, etc.
3. Motion sensors shall be mounted to one side or the other of the case joint.
4. Owner Supplied Items: Watt Stopper motion sensor kit ePRO number K-0011767. Kit includes (1) power supply, (1) motion sensor, (1) 10' shielded cable, (1) connector and (1) splitter.
5. Refer to Kroger Installation Specifications for Watt Stopper Motion Sensor for additional information.

Based on:
Watt Stopper Motion Sensor
Model No. FS-705

ORIGINAL ISSUE DATE 10/2/09

GLASS DOOR CASE MOTION SENSOR | DATE: 3/13/12 | DRAWN: ZAW
MASTER SPECIFICATION DETAIL | EISD-1

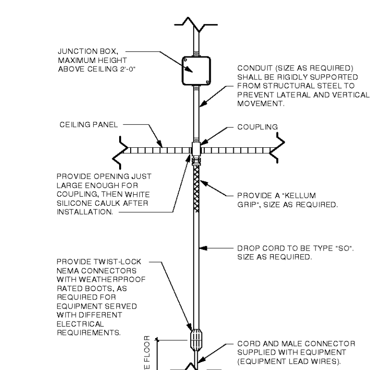


NOTES:

1. DASHED LINES INDICATE HIDDEN CONDUIT IN SHELF BACK AND BASE.

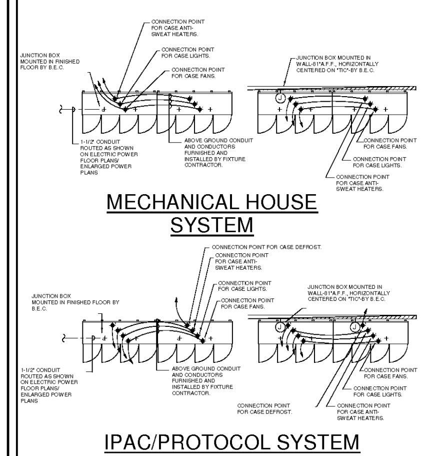
ORIGINAL ISSUE DATE 7/23/12

SHELVING ELECTRIC FROM OVERHEAD | DATE: 11/10/16 | DRAWN: ZAW
MASTER SPECIFICATION DETAIL | EISD-2



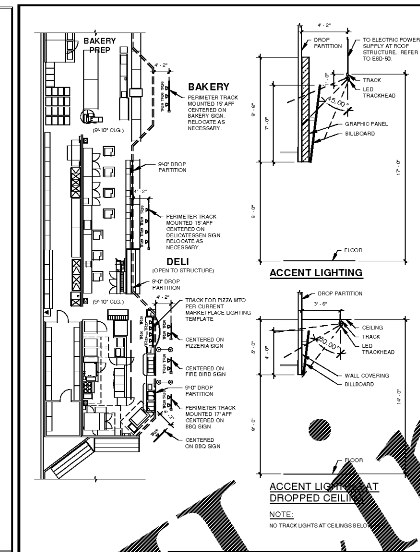
ORIGINAL ISSUE DATE 2/20/06

PENDENT RECEPTACLE FOR SUSPENDED CEILING | DATE: 1/31/17 | DRAWN: ZAW
MASTER SPECIFICATION DETAIL | ESD-16



NOTE : FADED "TIC" MARKS SHOWN WITHIN THE FOOTPRINT OF A REFRIGERATED CASE INDICATE ROUGH-IN/STUB-UP LOCATIONS. WHEN LOOKING AT THE CASE FROM THE FRONT, MARKS TO THE LEFT WITHIN THE CASE INDICATE ELECTRIC LOCATIONS. PROVIDE WIRING BETWEEN CONNECTION POINTS AS SHOWN. PROVIDE 1-1/2" CONDUIT AND WIRE BACK TO CASE FANS, LIGHTS, AND ANTI-SWEAT SOURCE PANELBOARD/WIREWAY FROM JUNCTION BOX OF CASES WITH HOME-RUN ARROWS TO INDICATED CIRCUIT.

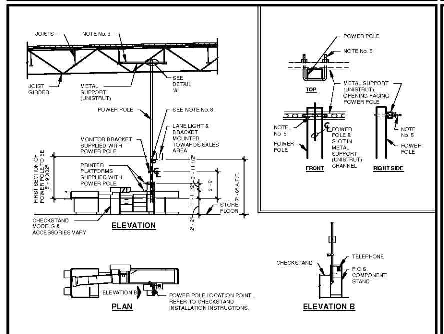
CASE CONDUIT AND WIRING DETAIL | DATE: 06-20-07 | SCALE: NONE
DETAIL 'F'



NOTE:
NO TRACK LIGHTS AT CEILINGS BELOW

ORIGINAL ISSUE DATE [illegible]/18

LIGHTING DETAILS - DECOR | DATE: 4/9/18 | DRAWN: ZAW
MASTER SPECIFICATION DETAIL | ESD-48



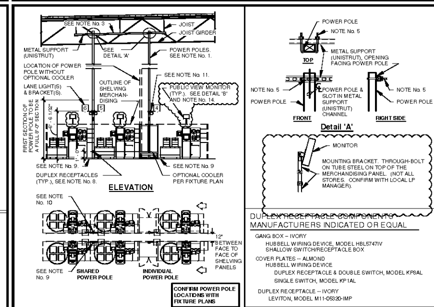
NOTES:

1. FOLLOW INSTRUCTIONS FROM CHECKSTAND MANUFACTURER SUPPLIED WITH POWER POLES FOR ASSEMBLY & INITIAL INSTALLATION.
2. POWER POLE WEIGHT IS SUPPORTED BY CHECKSTAND. CUT TOP OF POWER POLE AS NECESSARY AND ATTACH TO BUILDING STRUCTURE.
3. WHEN TOP OF POWER POLE MISSES EXISTING STRUCTURAL STEEL, PROVIDE & SECURELY ATTACH A METAL SUPPORT, SUCH AS UNISTRUT CHANNEL, ACROSS NEAREST JOISTS.
4. SECURELY ATTACH POWER POLE TO EXISTING STRUCTURE OR NEW METAL SUPPORT. DO NOT DRILL THRU, RUN BOLTS THRU, OR SCREW INTO POLE, TO PREVENT SHARP EDGES WHICH COULD DAMAGE COMMUNICATION CABLES.
5. 3/8" x 5" INSIDE LENGTH x 4" INSIDE WIDTH SQUARE U-BOLT, TO CONNECT TO SLOTTED METAL SUPPORT (UNISTRUT) CHANNEL, WITHOUT DRILLING, IF POWER POLE IS CENTERED ON A SLOT IN METAL SUPPORT (UNISTRUT) CHANNEL. DO NOT OVER TIGHTEN U-BOLT NUTS, LEAVE LOOSE ENOUGH TO PERMIT VERTICAL MOVEMENT OF ROOF STRUCTURE. SIMILAR UNISTRUT HARDWARE MAY BE USED IN LIEU OF U-BOLTS, TO SECURELY ATTACH POWER POLES.
6. HEIGHTS INDICATED RESULT IN POSITIONING BRACKETS TO PARTIALLY COVER SOME ACCESS HOLES.
7. METAL SUPPORT (UNISTRUT), SQUARE U-BOLT AND ATTACHMENT HARDWARE, MC CABLE SUPPLIED AND INSTALLED BY CONTRACTOR. ALL OTHER COMPONENTS SUPPLIED BY OWNER.
8. LANE LIGHT IS SUPPLIED WITH 10'-0" LONG CORD AND STANDARD GROUNDED PLUG. CONTRACTOR TO RUN LANE LIGHT CORD THROUGH PREDRILLED HOLE IN POWER POLE AND OUT BOTTOM OF POWER POLE TO FACTORY INSTALLED RECEPTACLE IN CHECKSTAND BASE DESIGNATED FOR LANE LIGHT, RECEPTACLE IS CONTROLLED BY FACTORY INSTALLED SWITCH LOCATED ON CHECKSTAND. BEFORE TIGHTENING HARDWARE ON LANE LIGHT, ADJUST TO PARTIALLY CONCEAL HOLE. INSTALL SHELVES AND MONITOR BRACKET AT PREDRILLED LOCATIONS. CONTRACTOR TO RUN POWER CORD THROUGH PREDRILLED HOLES IN POWER POLE TO BE PLUGGED INTO DESIGNATED RECEPTACLES.
12. ONE COMPARTMENT POWER POLES, LANE LIGHTS, BRACKETS AND STANDS COME FROM CHECKSTAND MANUFACTURER SUPPLIED BY OWNER INSTALLED BY CONTRACTOR.
13. ALL HIGH VOLTAGE CONDUCTORS MUST BE WRAPPED WITH STEEL JACKETING (MC CABLE).

e-PRO NUMBERS:
Power Pole #K-0001345
Light Arm Bracket With Lamp #K-0015235
Cube for Lane Light #K-0037228
Express Topper #K-0037230
ADA Topper #K-0015366 (Deactivated)
Family Friendly Topper (Fred Meyer Only) #K-0045002
Express Lane Topper (Fred Meyer Only) #K0045030

ORIGINAL ISSUE DATE 12/19/07

CHECKOUT POWER POLE AND LANE LIGHT INSTALLATION | DATE: 6/5/15 | DRAWN: ZAW
MASTER SPECIFICATION DETAIL | ESD-62

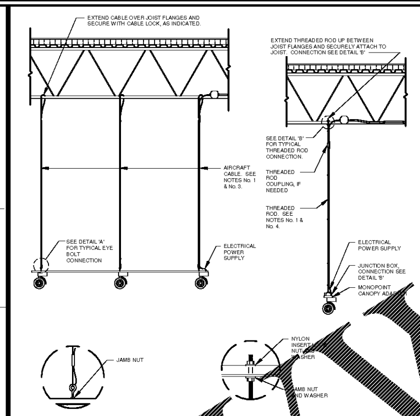


NOTES:

1. FOLLOW INSTRUCTIONS FROM CHECKSTAND MANUFACTURER SUPPLIED WITH POWER POLES FOR ASSEMBLY & INITIAL INSTALLATION. POWER POLES AS FOLLOWS:
 - PRE-CUT ACCESS HOLE ON 2" SIDE OF POLE AT LIGHT BRACKET MOUNTING HEIGHT.
 - PRE-CUT ACCESS HOLE ON 3" SIDE OF POLE AT HEIGHT INDICATED ON ABOVE ELEVATION, FOR DUPLEX RECEPTACLE.
2. POSITION POWER POLE AGAINST BACK OF SELF-SCAN SHELF THEN BOLT POLE BASE FLANGE TO FLOOR. CUT TOP OF POWER POLE AS NECESSARY AND ATTACH TOP OF POWER POLE TO BUILDING STRUCTURE.
3. WHEN TOP OF POWER POLE MISSES EXISTING STRUCTURAL STEEL, PROVIDE & SECURELY ATTACH A METAL SUPPORT, SUCH AS UNISTRUT CHANNEL, ACROSS NEAREST JOISTS.
4. SECURELY ATTACH POWER POLE TO EXISTING STRUCTURE OR NEW METAL SUPPORT (UNISTRUT). DO NOT DRILL THRU, RUN BOLTS THRU, OR SCREW INTO POLE, TO PREVENT SHARP EDGES WHICH COULD DAMAGE COMMUNICATIONS CABLES.
5. 3/8" x 5" INSIDE LENGTH x 4" INSIDE WIDTH SQUARE U-BOLT, TO CONNECT TO SLOTTED METAL SUPPORT (UNISTRUT) CHANNEL, WITHOUT DRILLING, IF POWER POLE IS CENTERED ON A SLOT IN METAL SUPPORT (UNISTRUT) CHANNEL. DO NOT OVER TIGHTEN U-BOLT NUTS, LEAVE LOOSE ENOUGH TO PERMIT VERTICAL MOVEMENT OF ROOF STRUCTURE. SIMILAR UNISTRUT HARDWARE MAY BE USED IN LIEU OF U-BOLTS, TO SECURELY ATTACH POWER POLES.
6. HEIGHTS INDICATED RESULT IN POSITIONING BRACKETS TO PARTIALLY COVER SOME ACCESS HOLES.
7. METAL SUPPORT, SQUARE U-BOLT AND ATTACHMENT HARDWARE, MC CABLE SUPPLIED AND INSTALLED BY CONTRACTOR. ALL OTHER COMPONENTS SUPPLIED BY OWNER.
8. CONTRACTOR TO SUPPLY AND INSTALL DUPLEX RECEPTACLES & COVER PLATES. CONTRACTOR TO COMPLETE WIRING INSTALLATION BETWEEN ELECTRIC CIRCUIT AND RECEPTACLES.
9. CONTRACTOR TO FIELD FABRICATE AND INSTALL STAINLESS STEEL PROTECTOR FOR WIRING FROM POWER POLE AND BETWEEN CHECKSTAND, FASTEN TO FLOOR AS NEEDED.
10. REMOVE COVER FROM SECOND HOLE FOR BACK TO BACK LIGHTING BRACKET INSTALLATION.
11. LANE LIGHT IS SUPPLIED WITH 20'-0" LONG CORD AND STANDARD GROUNDED PLUG. CONTRACTOR TO RUN LANE LIGHT CORD THROUGH POWER POLE, AND OUT OF POWER POLE TO FIELD FABRICATED WIRE PROTECTOR, TO INSIDE OF SELF-SCAN UNIT. LANE LIGHT TO BE POWERED FROM REQUIRED CIRCUIT INSIDE SELF-SCAN UNIT. EXCESS CORD TO BE COILED IN BOTTOM OF SELF SCAN UNIT.
12. ONE COMPARTMENT POWER POLES, LIGHTS, SWITCHES AND RECEPTACLES SUPPLIED AND INSTALLED BY CONTRACTOR.
13. ALL HIGH VOLTAGE CONDUCTORS MUST BE WRAPPED WITH STEEL JACKETING (MC CABLE).
14. MONITOR MOUNTED TO THE TOP STEEL TUBE OF THE MERCHANDISING RACK, CENTERED ON THE CENTER LINE OF CHECKSTAND SCALE. NOT ALL STORES. CONFIRM LOCATION WITH LOCAL LP MANAGER.

ORIGINAL ISSUE DATE 5/7/10

SELF-SCAN CHECKOUT POWER POLE AND LANE LIGHT INSTALLATION | DATE: 5/[illegible]/18 | DRAWN: ZAW
MASTER SPECIFICATION DETAIL | ESD-62A

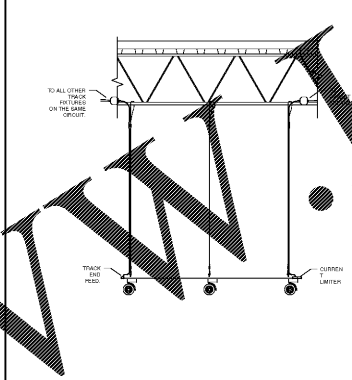


NOTES:

1. THIS DETAIL IS ASSOCIATED WITH THE INSTALLATION OF TR15, TR16, [illegible] TRACK LIGHT FIXTURES. HANG ELECTRIFIED TRACK FOR MULTIPLE FIXTURES WITH AIRCRAFT CABLE [illegible] THREADED ROD FOR M[illegible] FIXTURE INSTALLATION. THREADED ROD SHOULD BE USED TO SUPPORT ELECTRIFIED TRACK AT LOCATIONS WHERE HVAC DIFFUSERS [illegible] TO SWAY.
2. FIXTURE SUPPORT AND POWER CONNECTION [illegible] HED AND INSTALLED BY THE [illegible] CONTRACTOR AS REQUIRED BY GOVERNING CODES.
3. INSTALL ELECTRIFIED TRACK WITH MIN. 1/16" [illegible] STANDARD STEEL WIRE ROPE [illegible] STEEL AIRCRAFT CABLE WITH CABLE LOCK CONNECTED TO 1/4" EYE BOLT THRU FACTORY [illegible] HOLES WITH LOCK NUT INSERT [illegible] AND STANDARD JAMB NUT ON TOP OF THE TRACK. 4' TRACK TO BE INSTALLED BY 2 POINT ATTACHMENT, [illegible] 3 POINTS AND [illegible] POINTS.
4. MONOPOINT FIXTURE TO BE HUNG BY 1/4" THREADED [illegible] ED TO STEEL AND JUNCTION [illegible] LONGER DROPS INSTALL THREADED COUPLING AS HIGH AS POSSIBLE. ATTACH TO BOTTOM [illegible] ST BY EXTENDING THREADED [illegible] BETWEEN JOIST FLANGES AND HOLE IN JUNCTION BOX BY ATTACHING WITH LOCK NUT WITH NYLON [illegible] TOP AND STANDARD JAMB NUT [illegible] WASHER ON BOTTOM.
5. WHERE MOUNTING CABLE OR THREADED ROD MISSES EXISTING [illegible] STEEL, PROVIDE & SECURELY ATTACH METAL SUPPORT BETWEEN STEEL USING STEEL CHANNEL 7/8" MIN, 1" x 1" ANGLE IRON [illegible] OR RIGID CONDUIT.
6. LIGHT TRACK LENGTH AND HEIGHT ABOVE FLOOR VARIES PER LOCATION [illegible] TO LIGHTING PLAN FOR MOUNTING HEIGHT AND LOCATIONS.

ORIGINAL ISSUE DATE 11/2/12

LED TRACK LIGHT & MONOPOINT DETAIL | DATE: 11/5/13 | DRWAN: ZAW
MASTER SPECIFICATION DETAIL | ESD-50

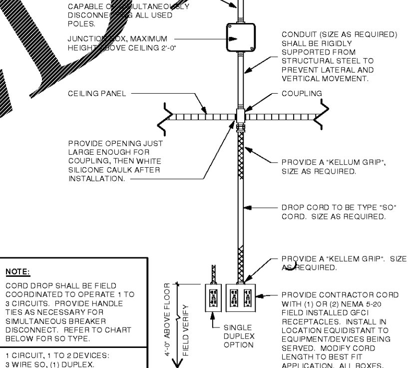


NOTES:

1. THIS DETAIL SHALL BE USED FOR TRACK LIGHTING CIRCUITS WHERE A SINGLE CURRENT LIMITER IS USED TO CONTROL MULTIPLE SECTIONS OF TRACK.
2. THE CURRENT LIMITER SHALL PROTECT ALL TRACK SECTIONS DOWNSTREAM. POWER SHALL RUN FROM THE CIRCUIT BREAKER TO THE FIRST JUNCTION BOX ABOVE THE TRACK WITH THE CURRENT LIMITER. THE TRACK WITH THE CURRENT LIMITER SHALL BE PROVIDED WITH A TRACK END FEED SUCH THAT THE DOWNSTREAM POWER IS ALSO PROTECTED FROM THE CURRENT LIMITER. THE END FEED SHALL ROUTE TO A JUNCTION BOX ABOVE THE CEILING. THIS JUNCTION BOX MAY FEED ALL OTHER TRACK LIGHTS ON THE CIRCUIT AS IT IS PROTECTED BY THE CURRENT LIMITER.

ORIGINAL ISSUE DATE 05/15/14

CURRENT LIMITER FEEDING DOWNSTREAM TRACK LIGHTING | DATE: 05/15/14 | SCALE: NONE | DRAWN: CSB
DETAIL '50B'



NOTE:
CORD DROP SHALL BE FIELD COORDINATED TO OPERATE 1 TO 3 CIRCUITS. PROVIDE HANDLE TIES AS NECESSARY FOR SIMULTANEOUS BREAKER DISCONNECT. REFER TO CHART BELOW FOR SO TYPE.

1 CIRCUIT, 1 TO 2 DEVICES: 3 WIRE SO, (1) DUPLEX.

1 CIRCUIT 3-4 DEVICES: 3 WIRE SO, (2) DUPLEX.

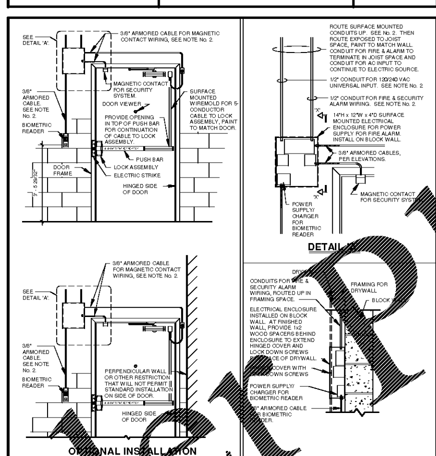
2 CIRCUIT, 1 TO 2 DEVICES: 4 WIRE SO, (1) DUPLEX WITH TABS CUT.

2 CIRCUIT 3-4 DEVICES: 4 WIRE SO, (2) DUPLEX, EACH TO ONE CIRCUIT.

3 CIRCUIT 3-4 DEVICES: 5 WIRE SO, (2) DUPLEX, (1) WITH TABS CUT

ORIGINAL ISSUE DATE 10/9/13

PENDENT MULTI RECEPTACLE FOR CEILING | DATE: 1/31/17 | DRAWN: ZAW
MASTER SPECIFICATION DETAIL | ESD-16A



NOTICE:

1. ALARM SYSTEM WITH DELAYED EGRESS PANIC [illegible] FEATURE MAY BE DEACTIVATED IF NOT NEEDED. FOR HARDWARE SET REFER TO [illegible] SECTION.
2. WIRING CONCEALED IN WALL [illegible] IN FINISHED AREAS OR PAINTED TO MATCH DECOR WHERE EXPOSED.
3. CONTRACTOR SUPPLIED ITEMS: [illegible] 3/8" ARMORED CABLE, 7/8" x 7/16" WIREMOLD (4008AC or EQUAL), AND MISC. INSTALLATION HARDWARE.
4. CONTRACTOR PROVIDED HARDWARE [illegible] HARDWARE, CONTROL PANEL, BIO READER AND MAGNETIC CONTACTS SUPPLIED AND INSTALLED [illegible] SECURITY SYSTEM [illegible] CONTRACTOR.

ORIGINAL ISSUE DATE 3/13/12

EMPLOYEE ENTRY, EXIT WITH DELAYED EGRESS | DATE: 11/9/17 | DRAWN: ZAW
MASTER SPECIFICTION DETAIL | ESD-22B

STUDIO A architecture
1371 BARDSTOWN ROAD
LOUISVILLE, KENTUCKY 40204
T:502.589.[illegible] F:502.589.8000
WWW.STUDIOAARCH.COM

CONSULTANTS

KLH ENGINEERS
MECHANICAL/ELECTRICAL ENGINEERS
WWW.KLHENGRS.COM
LEXINGTON, KENTUCKY
LOUISVILLE, KENTUCKY
COLUMBUS, OHIO
NEW YORK, NEW YORK
1538 ALEXANDRIA PIKE, SUITE 11
FT. THOMAS, KENTUCKY 41075
800-354-9783 859-442-8050
859-442-8058 FAX

KROGER L758

234 EASTBROOKE PKWY,
MT WASHINGTON, KY

CLIENT

KROGER COMPANY
1600 Ormsby Station Court
Louisville, Kentucky 40223

ELECTRICAL STANDARD DETAILS

No.	Description	Date

BID ISSUE

© 2015 STUDIO A ARCHITECTURE
MATERIAL INCLUDED HEREIN IS COVERED BY COPYRIGHT. USE OF THIS WORK IN WHOLE OR IN PART IS FORBIDDEN WITHOUT THE EXPRESSED WRITTEN CONSENT OF STUDIO A ARCHITECTURE.

E5.1.1

Project number 20168
Date 08/17/2018

2" REFERENCE LINE
JAD JAT

OWNERSHIP OF INSTRUMENTS OF SERVICE
All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Consultant as instruments of service shall remain the property of the Consultant. The Consultant shall retain all common law, statutory and other reserved rights, including, without limitation, the copyright thereto.

Order Plans @ WWW.LDLine.com