

CONDUIT SHALL BE SIZED TO ACCOMMODATE REQUIRED CONDUCTORS AND ANTICIPATED SPARES.

THIS DRAWING DOES NOT SHOW CONDUIT SYSTEMS. PROVIDE, AS A MINIMUM, PULL BOXES AS RECOMMENDED BY CONDUCTOR WANUFACTURER. CONDULETS SHALL NOT BE USED AS PULL BOXES.

PROVIDE EXPLOSION-PROOF SEAL-OFF FITTINGS ON ALL CONDUIT EXITING CLASSIFIED OR RATED LOCATIONS. FITTINGS SHALL BE INSTALLED IN THE CLASSIFIED OR RATED LOCATION.

(QUANTITY) #14 THWN CONDUCTORS

(QUANTITY) #16 SHIELDED PAIR

(QUANTITY) *18 TELEPHONE CABLE 4 - CONDUCTOR

(QUANTITY) DATA HIGHWAY CABLE

(QUANTITY) RG62 A/U COAXIAL CABLE

(QUANTITY) VENDOR FURNISHED CABLE

INSTRUMENT PLAN LEGEND

() #14

() TEL

() CAT6

() RG62

() VFC

VENDOR PROVIDED
SIGNAL CABLE

TO JUNCTION
BOX. SEE
DETAIL NOOI

EMBEDDED PVC COATED

SECURE TO WALL
WITH STAINLESS
STEEL
PIPE MATERIAL

2 IN. SCHED 40
STAINLESS STEEL
PIPE MATERIAL

SECURE TO WALL
WITH STAINLESS
STEEL CONCRETE
ANCHORS

CABLE SUPPORT
AND STRAIN RELIEF
PER FLOAT
MANUFACTURER'S
RECOMMENDATIONS.

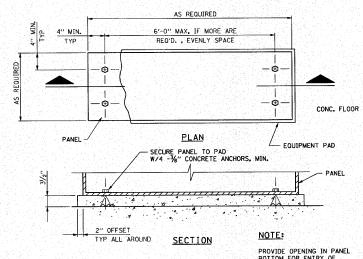
VENDOR SUPPLIED

U-CHANNEL MOUNT PROVIDE
JUNCTION BOX WITH
TERMINAL STRIP. *
TERMINAL STRIP TO ACT
AS INTERFACE POINT
BETWEEN VENDOR FURNISHED
CABLE AND CONTRACTOR
FURNISHED CABLE. 000 PVC COATED RIGID CONDUIT EMBEDDED IN SLAB OR FLEX CONDUIT ALONG SURFACE PVC COATED RIGID CONDUIT EMBEDDED IN SLAB SECURE TO SLAB W/4-3/8"X0'-5" SS CONCRETE ANCHORS CONTRACTOR FURNISHED CABLE OUT . N. 0 : w . . . * PROVIDE NEMA 7
EXPLOSION-PROOF JUNCTION BOXES AND SEALOFF FITTINGS WHERE CLASSIFIED OR CORROSIVE LOCATIONS ARE IDENTIFIED ON DRAWINGS. CLASSIFIED AREA NON-CLASSIFIED AREA PROVIDE
JUNCTION BOX WITH
TERMINAL STRIP. *
TERMINAL STRIP TO ACT
AS INTERFACE POINT WALL MOUNT BETWEEN VENDOR FURNISHED CABLE AND CONTRACTOR FURNISHED CABLE. PVC COATED RIGID CONDUIT EMBEDDED IN SLAB OR FLEX CONDUIT ALONG SURFACE PVC COATED RIGID CONDUIT EMBEDDED IN SLAB West of the second seco CONTRACTOR VENDOR FURNISHED CABLE IN FURNISHED CABLE OUT * PROVIDE NEMA 7
EXPLOSION-PROOF
JUNCTION BOXES AND SEALOFF
FITTINGS WHERE CLASSIFIED
OR CORROSIVE LOCATIONS
ARE IDENTIFIED ON DRAWINGS. SEE ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION. CLASSIFIED AREA NON-CLASSIFIED AREA

I&C JUNCTION BOX (xxx-JBOX-x) INSTALLATION NO01

INSTALLATION NOOT

FREE STANDING OR FLOOR
MOUNT CONTROL PANEL



N002

SECURE INSTRUMENT CASE TO WALL WITH STAINLESS STEEL CONCRETE

ANCHORS AS REQUIRED

1/8" SPACER BETWEEN WALL AND INSTRUMENT CASE

SMALL CASEINSTRUMENTATION

WALL MOUNT SMALL

MOUNT INSTRUMENTATION

SECURE CHANNEL TO WALL WITH STAINLESS STEEL CONCRETE ANCHORS AS REQUIRED

PURGE ROTAMETER WITH DIFFERNTIAL
PRESSURE REGULATOR AND FLOW
CONTROL VALVE

FLOW RANGE
AIR: 0-4.5 SCFH
WATER: 0-9 GPH

TO INSTRUMENTS

AIR OR
SUPPLY

BULKHEAD
FITTING,
TYP

BULKHEAD
FITTING,
TUBING, AS APPLICABLE, TO
BUBBLER OR PURGE LINE
FOR WATER SERVICE
PIPE TO BRAIN,
FOR AIR SERVICE
FIRMINATE PIPE AT
BULKHEAD FITTING

NORMAL

PURGE

NORMAL
PURGE

BUBBLER LEVEL SYSTEM
PURGE STATION NO2

4-WAY BALL VALVE PORT ARRANGEMENT

E33 I

ILLINOIS DEPARTMENT OF TRANSPORTATION
PUMP STATION NO. 24

COUNTY

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

COOK

MOUNTING HEIGHT PER MANUFACTURER

INFRA-RED GAS SENSING SENSOR 107 106

SECTION

0102.1 S

190

(AE/AIT

CEILING

In

N004

RIGID CONDUIT

PROVIDE SEAL-OFF FITTINGS WHEN XP JUNCTION BOX IS NOT USED

COMBUSTIBLE GAS SENSOR/

TRANSMITTER-INFRA-RED

SEAL-OFF FITTING -

CONDUIT STRAPS, SECURE TO WALL WITH 1/4" SST CONCRETE ANCHORS

NOTE:

CONTRACTOR PROVIDED

SIGNAL CABLE

RELOCATION

I & C DETAILS

SCALE: AS SHOWN DRAWN BY: CRP
DATE: 11-22-10 CHECKED BY: KHC

DONOHUE

LEVEL INSTRUMENTATION

ATION NO13

VENDOR SUPPLIED WEIGHTED ANCHOR

BOTTOM OF WETWELL