

Revision/	Description	Date/Date
P3	ISSUED FOR TENDER	NOV 23/16
P2	REVISED AS PER PVGSC COMMENTS	NOV 4/16
P1	ISSUED FOR REVIEW	OCT 4/16

**CORRECTIONAL
SERVICE
CANADA**

Project title/Titre du projet
**AGASSIZ, BC
4732 CEMETARY ROAD**

**CSC KENT INSTITUTION
PETROLEUM STORAGE TANK
SYSTEMS REPLACEMENT**

Consultant Signature Only
M.V.

Designed by/Concept par
D.D.

Drawn by/Dessiné par
C.K.

PWGSC Project Manager/Administrateur de Projets
TFSGC
DARYL SINCLAIR

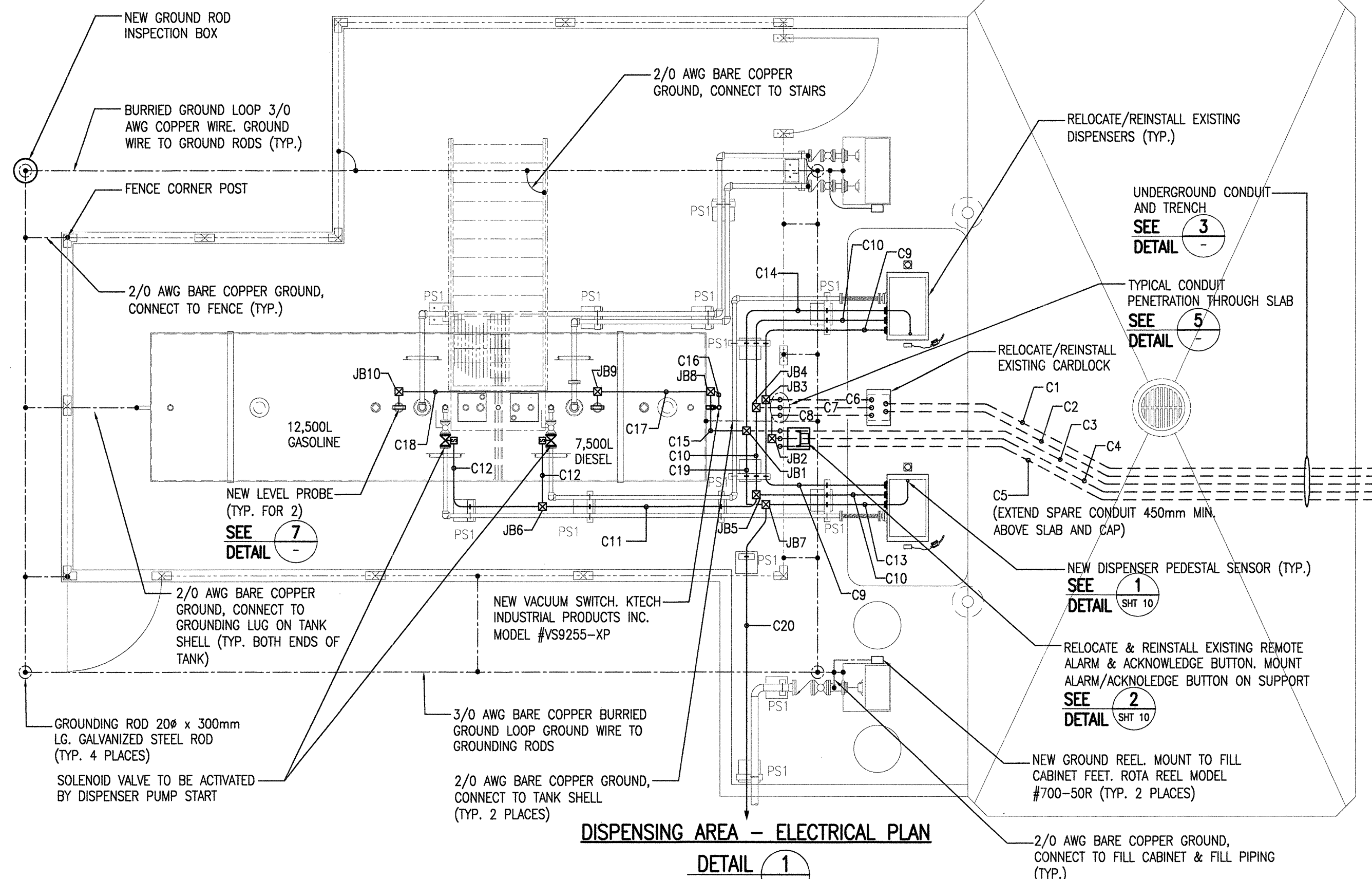
Regional Manager, Architectural and Engineering Services
Gestionnaire régional, Services d'architecture et de génie, TRSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
**ELECTRICAL
PLANS & DETAILS**

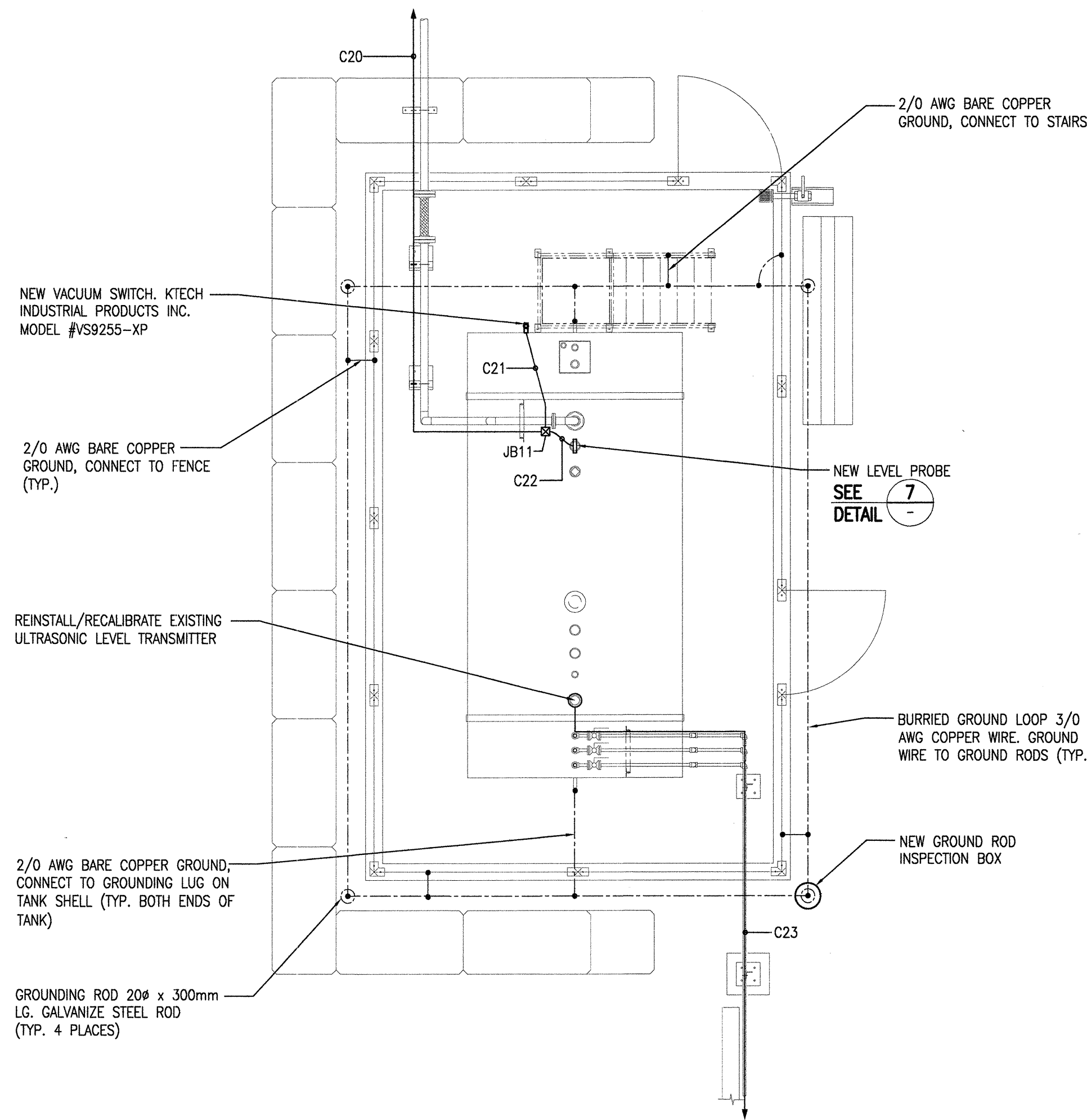
Project No./No.
du projet
R.082450.001

Sheet/Feuille
9
OF 11

Revision no./
Révision
no.
P3

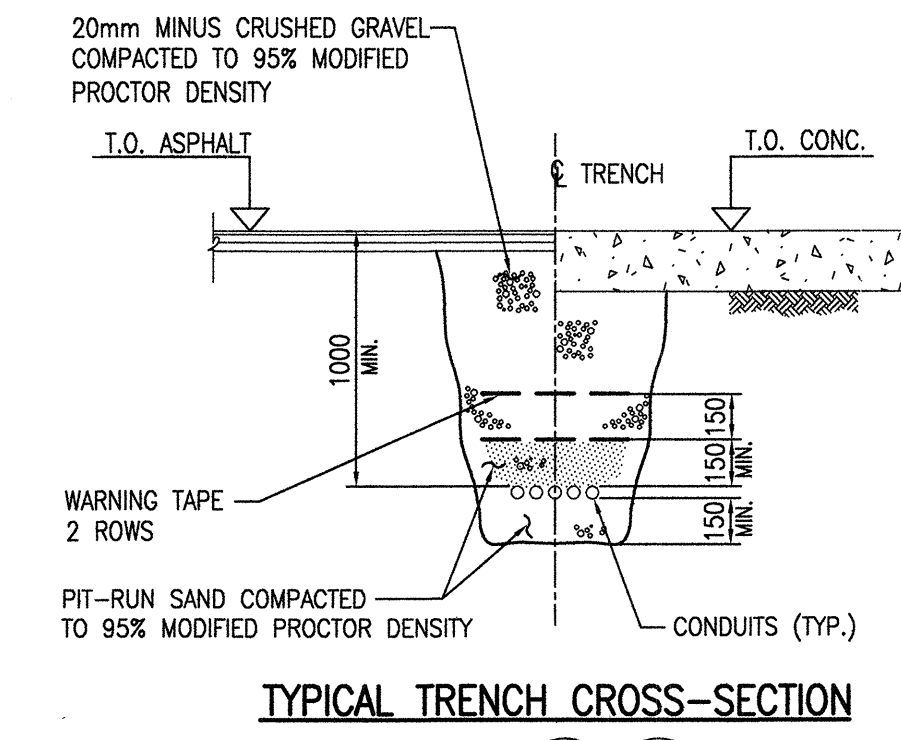


DISPENSING AREA - ELECTRICAL PLAN
DETAIL 1
1:50

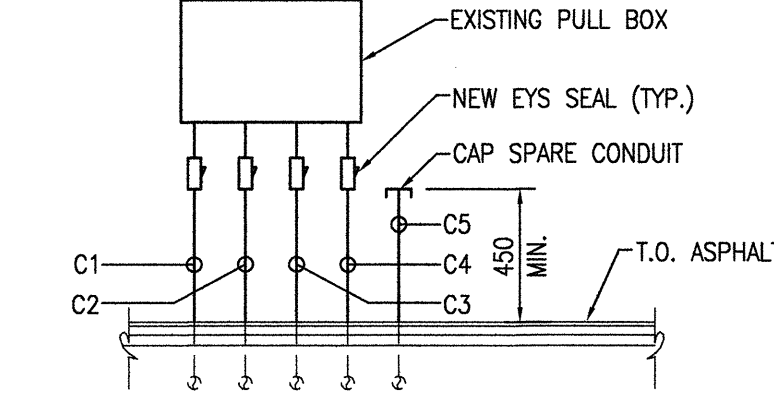


GENERATOR/FIRE PUMP STORAGE TANK - ELECTRICAL PLAN
DETAIL 2
1:50

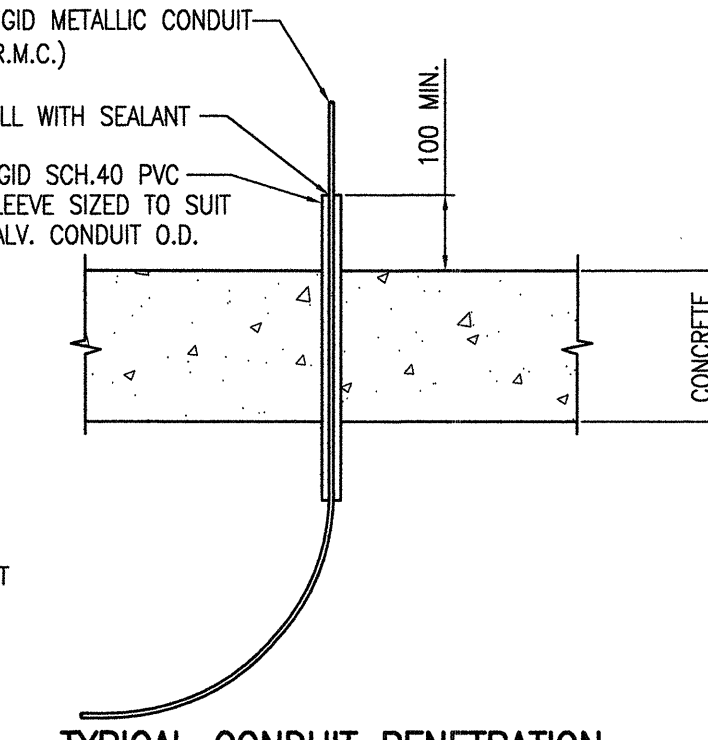
C#	SIZE - DETAILS	DESCRIPTION	FROM	TO
C1	250mm (1") R.M.C. W/ 4#8 RW90 + 2#12 RW90 + #12 GND	DISPENSER + CARDLOCK POWER	EXISTING PULL BOX AT BUILDING	CARDLOCK TERMINAL
C2	190mm (3/4") R.M.C. W/ CAT 5E + #12 GND	CARDLOCK DATA	EXISTING PULL BOX AT BUILDING	CARDLOCK TERMINAL
C3	190mm (3/4") R.M.C. W/ 7 BELDEN #87760 + #12 GND	INCON MONITORING SYSTEM	EXISTING PULL BOX AT BUILDING	JB1
C4	190mm (3/4") R.M.C. W/ 2 #12 RW90 + 4#14 RW90 + #12 GND	REMOTE ALARM POWER + E-STOP + REMOTE ALARM CONTROL	EXISTING PULL BOX AT BUILDING	JB2
C5	250mm (1") R.M.C. - SPARE	SPARE	PULL BOX AREA AT BUILDING	DISPENSING AREA
C6	190mm (3/4") R.M.C. W/ 2 BELDEN #87760 + #12 GND	DISPENSER DATA	CARDLOCK TERMINAL	JB3
C7	250mm (1") R.M.C. W/ 4#8 RW90 + 2#12 RW90 + #12 GND	DISPENSER POWER + CONTROL	CARDLOCK TERMINAL	JB4
C8	190mm (3/4") R.M.C. W/ 2#14 RW90 + #12 GND	E-STOP CONTROL	JB2	CARDLOCK TERMINAL
C9	190mm (3/4") R.M.C. W/ 1 BELDEN #87760 + #12 GND	DISPENSER DATA	JB3	DISPENSER
C10	250mm (1") R.M.C. W/ 2#8 RW90 + 3#12 RW90 + #12 GND	DISPENSER POWER+ DISPENSER CONTROL & SOLENOID POWER	JB4, JB4, JB5	DISPENSER, JB5, DISPENSER
C11	190mm (3/4") R.M.C. W/ 4#12 RW90	SOLENOID POWER	JB5	JB6
C12	190mm (3/4") R.M.C. W/ 2#12 RW90	SOLENOID POWER	JB6	SOLENOID
C13	190mm (3/4") R.M.C. W/ 1 BELDEN #87760 + #12 GND	DISPENSER PEDESTAL SENSOR	JB7	DISPENSER
C14	190mm (3/4") R.M.C. W/ 1 BELDEN #87760 + #12 GND	DISPENSER PEDESTAL SENSOR	JB1	DISPENSER
C15	190mm (3/4") R.M.C. W/ 3 BELDEN #87760 + #12 GND	TANK LEVEL PROBES & VACUUM SWITCH	JB1	JB8
C16	190mm (3/4") SEALTIGHT W/ 1 BELDEN #87760 + #12 GND	VACUUM SWITCH	JB8	VACUUM SWITCH
C17	190mm (3/4") SEALTIGHT W/ 2 BELDEN #87760 + #12 GND	TANK LEVEL PROBES	JB8	JB9
C18	190mm (3/4") SEALTIGHT W/ 1 BELDEN #87760 + #12 GND	TANK LEVEL PROBE	JB9	JB10
C19	190mm (3/4") R.M.C. W/ 3 BELDEN #87760 + #12 GND	TANK LEVEL PROBE + VACUUM SWITCH + SUMP SENSOR	JB1	JB7
C20	190mm (3/4") R.M.C. W/ 2 BELDEN #87760 + #12 GND	TANK LEVEL PROBE + VACUUM SWITCH	JB7	JB11
C21	190mm (3/4") R.M.C. W/ 1 BELDEN #87760 + #12 GND	TANK LEVEL PROBE	JB11	TANK LEVEL PROBE
C22	190mm (3/4") R.M.C. W/ 1 BELDEN #87760 + #12 GND	VACUUM SWITCH	JB11	VACUUM SWITCH
C23	TECK 90, 600V, 2 TWISTED PAIR #14	ULTRASONIC SENSOR		GENERATOR DAY TANK PUMP PACKAGE CONTROL PANEL



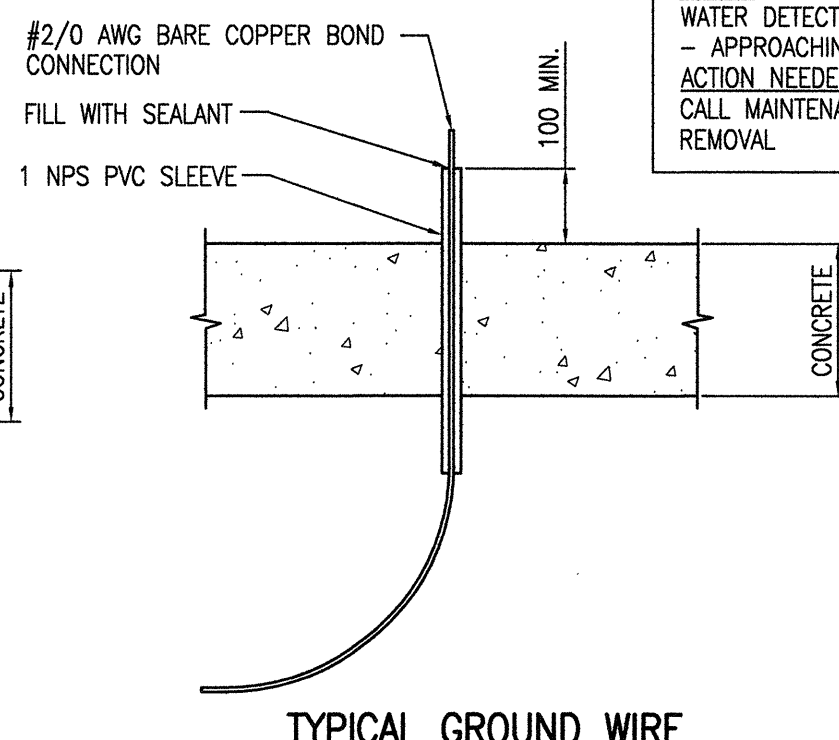
TYPICAL TRENCH CROSS-SECTION
DETAIL 3
1:10



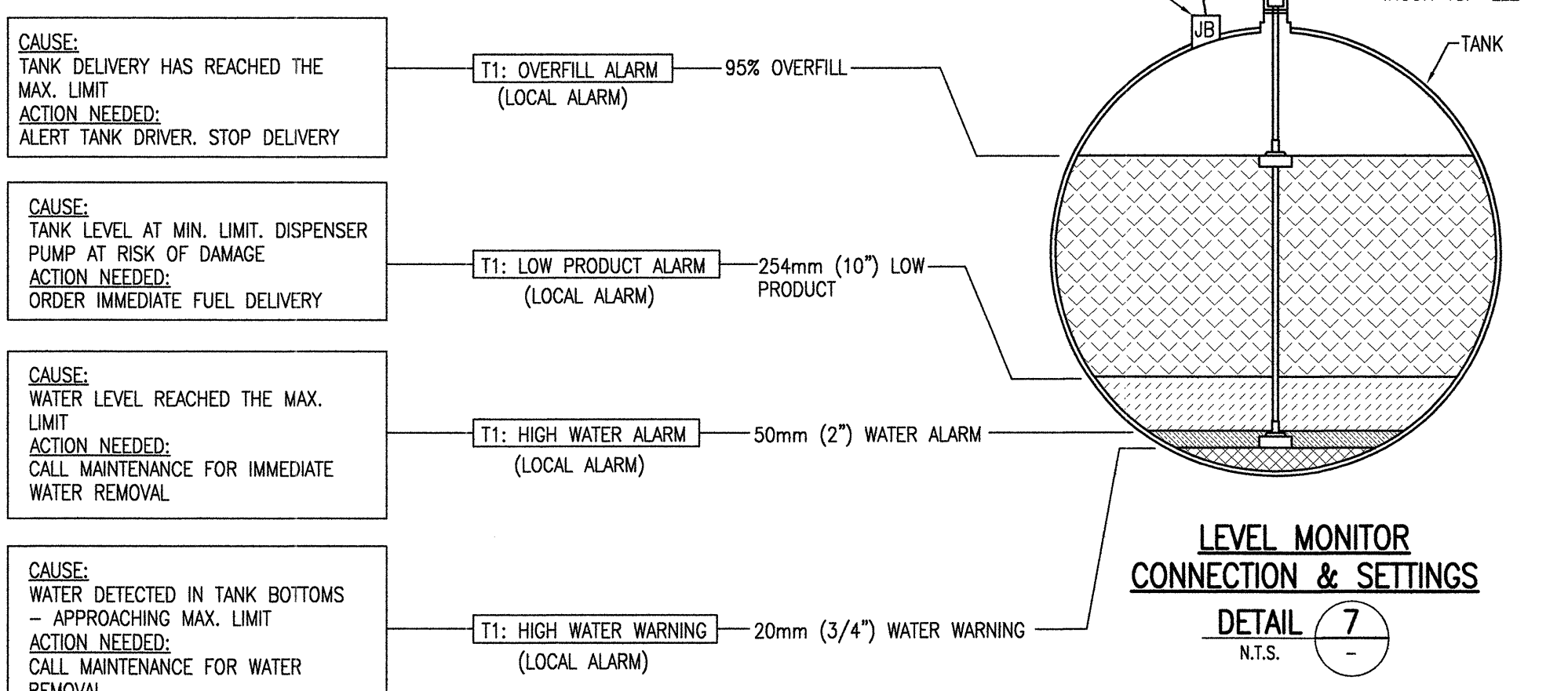
CONDUIT AT BUILDING ENTRY
DETAIL 4
1:25



TYPICAL CONDUIT PENETRATION THROUGH SLAB
DETAIL 5
1:10



TYPICAL GROUND WIRE SLAB PENETRATION SLEEVE
DETAIL 6
1:10



CAUSE:
TANK DELIVERY HAS REACHED THE MAX. LIMIT
ACTION NEEDED:
ALERT TANK DRIVER. STOP DELIVERY

CAUSE:
TANK LEVEL AT MIN. LIMIT. DISPENSER PUMP AT RISK OF DAMAGE
ACTION NEEDED:
ORDER IMMEDIATE FUEL DELIVERY

CAUSE:
WATER LEVEL REACHED THE MAX. LIMIT
ACTION NEEDED:
CALL MAINTENANCE FOR IMMEDIATE WATER REMOVAL

CAUSE:
WATER DETECTED IN TANK BOTTOMS - APPROACHING MAX. LIMIT
ACTION NEEDED:
CALL MAINTENANCE FOR WATER REMOVAL

NOTE: LOCAL ALARM SHALL ACTIVATE THE ALARM STROBE & HORN. ACTIVATION OR ANY LOCAL ALARM SHALL ALSO DISPATCH A GENERAL 'FUEL SYSTEM ALARM' TO SITE DDC