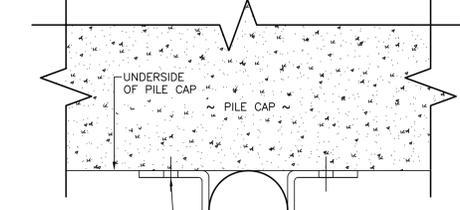
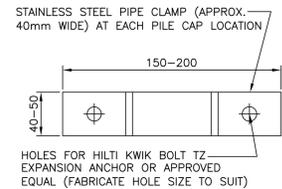
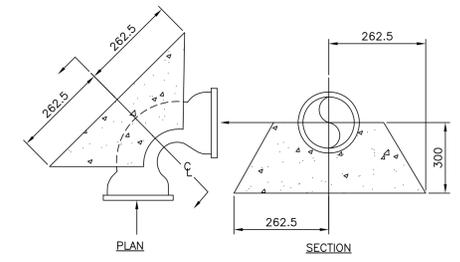


- NOTES:**
1. HYDRANT LEADS TO BE 150mm DIAMETER PIPE.
 2. CONCRETE FOR THRUST BLOCKS TO BE 35MPa.
 3. HYDRANT DRAIN TO BE KEPT CLEAR OF CONCRETE THRUST BLOCK.
 4. TEES FOR FIRE HYDRANT LATERALS TO BE 150 OFF ALL DIAMETER LINES. ALL LATERALS TO BE 150 PIPE.
 5. TRENCH ROCK AS REQUIRED FOR PIPE AND HYDRANT PLACEMENT.
 6. CONSIDER DETAILS OF HYDRANT LAYOUT AS APPROXIMATE, SINCE SITE CONDITIONS MAY VARY.
 7. FOR NEW HYDRANT ADJACENT TO HARBOUR AUTHORITY BUILDING, INSTALL ADAPTER AND SHUT OFF VALVE FOR THE PURPOSES OF CONNECTING FLEX HOSE FOR USE OF FRESH WATER ON SITE. CONTRACTOR ALSO RESPONSIBLE FOR SUPPLYING 120m OF FLEX HOSE WITH AN INSIDE DIAMETER OF 25mm.

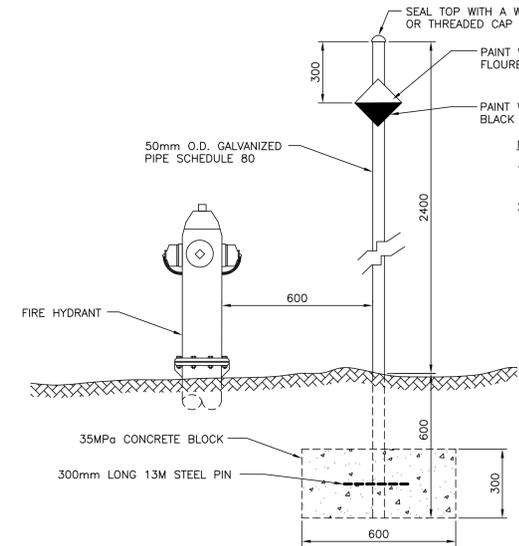
HYDRANT CONNECTION 1/16/16
SCALE: N.T.S.



CLAMPS AT PILE CAP LOCATIONS 4/16/16
SCALE: N.T.S.

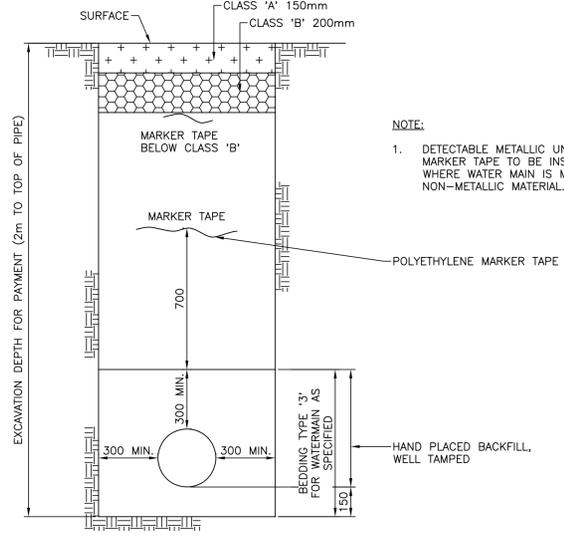


WATERMAIN THRUST BLOCK 7/16/16
SCALE: N.T.S.



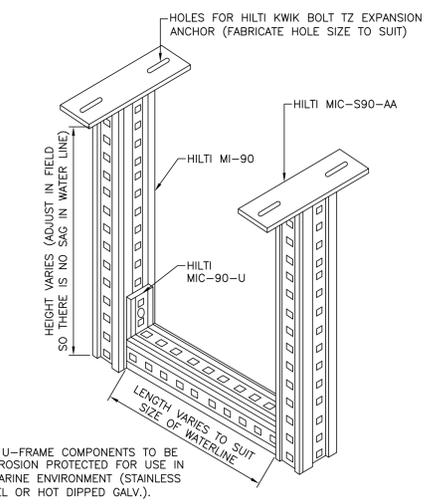
- NOTE:**
1. PAINT WITH ZINC OXIDE PRIMER AND A RUST RESISTANT HYDRANT RED PAINT.
 2. COORDINATE PLACEMENT WITH HYDRANT MARKER WHILE IN THE FIELD.

HYDRANT MARKER 2/16/16
SCALE: N.T.S.



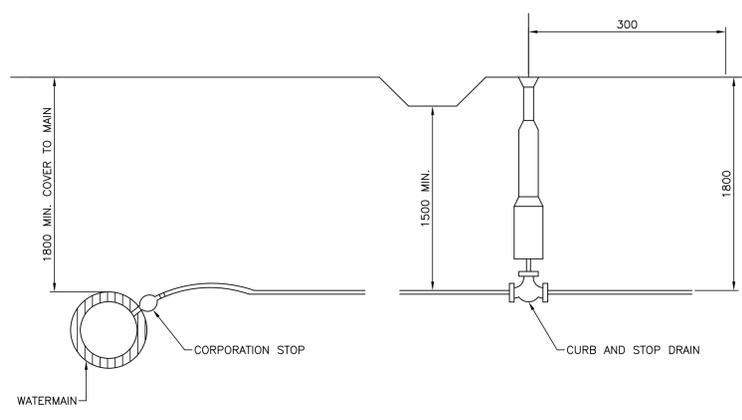
- NOTE:**
1. DETECTABLE METALLIC UNDERGROUND MARKER TAPE TO BE INSTALLED WHERE WATER MAIN IS MADE OF NON-METALLIC MATERIAL.

SINGLE PIPE TRENCH DETAIL 5/16/16
SCALE: N.T.S.

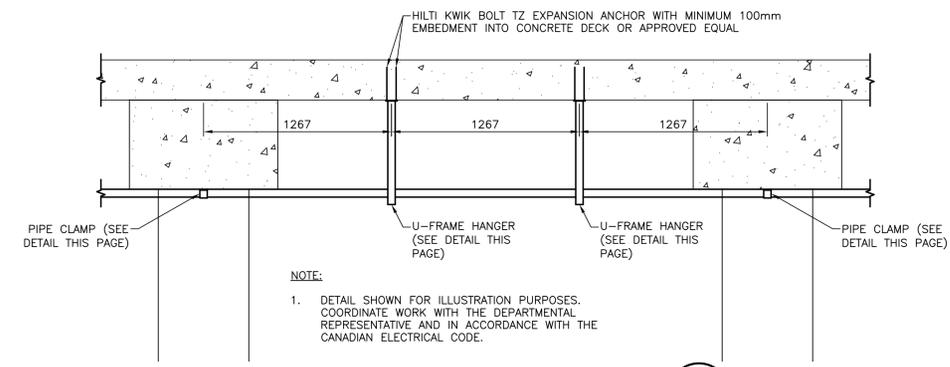


- NOTE:**
1. ALL U-FRAME COMPONENTS TO BE CORROSION PROTECTED FOR USE IN A MARINE ENVIRONMENT (STAINLESS STEEL OR HOT DIPPED GALV.).

HANGER BETWEEN PILE CAPS FOR WATERLINE 8/16/16
SCALE: N.T.S.



CONNECTION 3/16/16
SCALE: N.T.S.



- NOTE:**
1. DETAIL SHOWN FOR ILLUSTRATION PURPOSES. COORDINATE WORK WITH THE DEPARTMENTAL REPRESENTATIVE AND IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.

HANGER/CLAMP FOR WATERLINE 6/16/16

SMALL CRAFT HARBOURS



- NOTES:**
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
This Permit Allows
APN ENGINEERING INC.
To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by APBNL F0282 which is valid for the year 2021.

REGISTERED PROFESSIONAL ENGINEER
NEIL C. HUNT
SIGNATURE
6/19/21
DATE
NEWFOUNDLAND & LABRADOR

revision	description	date
J	RE-ISSUED FOR TENDER BASED ON 2021 SCOPE	6/19/21
I	RE-ISSUED FOR TENDER BASED ON 2021 SCOPE	3/24/21
H	RE-ISSUED FOR TENDER BASED ON 2020 SCOPE	8/19/20
G	RE-ISSUED FOR REVIEW BASED ON 2020 SCOPE	3/26/20
F	RE-ISSUED FOR TENDER	5/11/18
E	ISSUED FOR TENDER	3/19/18
D	RE-ISSUED FOR 89% REVIEW	6/9/17
C	ISSUED FOR 99% REVIEW	2/20/17
B	ISSUED FOR 66% REVIEW	2/13/17
A	ISSUED FOR 33% REVIEW	11/12/16

WHARF RECONSTRUCTION (PHASE II)
GRAND BANK, NL

drawing: P.H. dessein: P.H.
date: JUNE 19, 2021
date: JUNE 19, 2021
approved: _____
approved: _____
Tender: _____
DFD Project Manager: _____
project number: C2-00200
drawing no.: C16