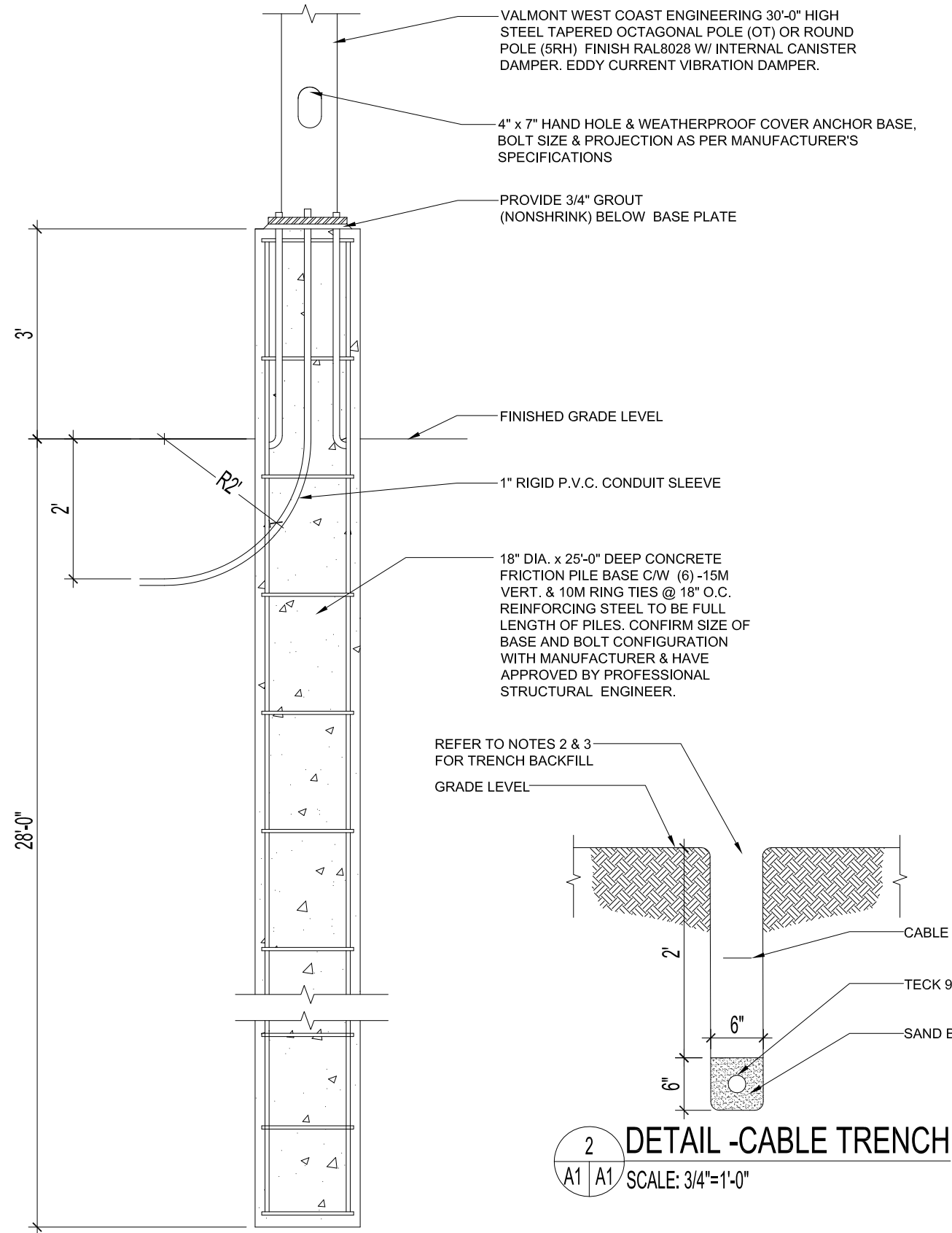


V:\A-CAD\ARCHIVE\SPCS\HOCKEY RINK



**1** DETAIL -LUMINAIRE POLE BASE  
A1 A1 SCALE: 1/2"=1'-0"

**2** DETAIL -CABLE TRENCH  
A1 A1 SCALE: 3/4"=1'-0"

## REINFORCED CONCRETE PILE BASES

### 2.0 CONCRETE BASES

- MATERIALS FOR CONCRETE PILES SHALL BE AS SPECIFIED ON THE DRAWING & IN ACCORDANCE WITH CW 2160-R4 OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- EXCAVATION FOR PILES SHALL BE DONE BY AUGERING TO SIZES SHOWN. IF CASING IS REQUIRED TO PREVENT THE SIDES OF THE AUGERED HOLE FROM SLOUGHING IN, CASING SHALL BE SUPPLIED & INSTALLED AT NO COST TO THE CITY. THE CASING DIAMETER SHALL NOT BE LESS THAN 3/4" SMALLER THAN THE PILE EXCAVATION.
- THE PILE CONCRETE SHALL BE CAST NO LATER THAN 24 HOURS AFTER EXCAVATION HAS BEEN COMPLETED.
- PILE REINFORCEMENT SHALL BE SUPPLIED & INSTALLED IN ACCORDANCE WITH THE CONSTRUCTION DRAWING DETAIL.
- THE PILE EXCAVATION SHALL BE KEPT DRY AT ALL TIMES & WATER PUMPED OUT IF IT ACCUMULATES.
- CONCRETE PLACING SHALL BE CONTINUOUS FROM TOP OF PILE & PUDDLING OR RODDING CARRIED CONSTANTLY TO BRING AIR BUBBLES TO THE SURFACE & PRODUCE A UNIFORM STRUCTURE.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 HOURS (WORKING DAYS) NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO ANY CONCRETE PLACEMENT TO ALLOW FOR THE INSPECTION OF PILE DEPTHS & DIAMETERS, STEEL REINFORCING SIZES & LOCATIONS TO ENSURE ALL PILE HOLES ARE DRY. IF NECESSARY, PUMP HOLES DRY PRIOR TO CONCRETE PLACEMENT.
- THE PORTION OF THE PILE TO BE EXPOSED ABOVE THE FINISHED GRADE SHALL BE FORMED WITH SONOTUBE. THE TOP OF THE PILE SHALL BE FINISHED TO A FLAT SMOOTH SURFACE TO THE DESIGN ELEVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING GOOD ALL AREAS DAMAGED BY HIS OPERATIONS IN CONNECTION WITH THIS CONTRACT.
- THE CONTRACTOR SHALL SUBMIT FOR REVIEW COPIES OF THE PILE INSPECTION REPORT FOR THE CONCRETE PILING WITH A REGISTERED PROFESSIONAL STRUCTURAL ENGINEERS STAMP TO THE CONTRACT ADMINISTRATOR.

### NOTES:

- CONCRETE BASES SHALL BE TYPE 50 SULPHATE RESISTANT HAVING A 28 DAY COMPRESSIVE STRENGTH OF 30MPA & IN ACCORDANCE WITH CW 2160-R4. ANCHOR PLATES & BASE PLATES SHALL BE STANDARD STRUCTURAL STEEL SECTIONS MEETING THE CURRENT CITY OF WINNIPEG STANDARDS & OF THE DIMENSIONS AS INDICATED ON THE DRAWINGS & DETAILS.
- BACKFILL TRENCH WITH CLEAN EARTH FILL TO 4" BELOW THE SURFACE. BACKFILL WITH 3" TOPSOIL & SOD TO MATCH SURFACE GRADE.
- BACKFILL TRENCH AT ASPHALT SURFACE WITH 3/4" DOWN CRUSHED LIMESTONE COMPACTED @ 6" LIFTS. TOP WITH 2" ASPHALT SURFACE TO MATCH EXISTING.

## ELECTRICAL WORK:

- ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE, PROVINCIAL, MUNICIPAL & OTHER CODES, RULES & REGULATIONS.
- PREPARE & SUBMIT TO THE PROPER AUTHORITIES ALL NECESSARY PERMITS & PAY ALL APPLICABLE FEES.
- UPON COMPLETION & BEFORE FINAL PAYMENT IS MADE, PRESENT TO THE CONTRACT ADMINISTRATOR A CERTIFICATE OF APPROVAL FOR ALL ELECTRICAL WORK FOR THE INSPECTION DEPARTMENT HAVING JURISDICTION.
- ELECTRICAL WORK: SUPPLY & INSTALL (2) - 4 POLE CONTACTORS WITH 30A RATING, (2) CONTACTOR COILS IN NEMA 1 ENCLOSE C/W (2) - 2 SINGLE POLE TOGGLE SWITCH (SPEC. GRADE) & A 24 HOUR, 7 DAY TIMER CLOCK TO OPERATE CONTACTORS. WHICH SWITCHES RINK LIGHTS (RECOMMENDED MANUFACTURERS: ALLEN-BRADLEY, SQUARE D, SIEMENS OR APPROVED EQUAL).
- 120V-277V: FLD-EHO40HV12EULBZ100040K C/W EHO-UNV ADAPTOR DESCRIPTION: CREE EDGE HIGH OUTPUT FLOOD -40- DEGREE FLOOD OPTIC -ADJ. TENON MOUNT -120 LEDS / 421 WATT / 35,832 LUMENS - 120V-277V UNV DRIVER -BRONZE FIXTURE FINISH -1000MA DRIVER -4000K.  
  
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- ALL NEW LIGHT FIXTURES SHALL BE AIMED TO SUIT SITE CONDITIONS.

## LIGHT POLE SYSTEMS

### 1.0 FLOODLIGHT POLES

- SHALL BE 30 FOOT HIGH STEEL POLES AS MANUFACTURED BY VALMONT WEST COAST ENGINEERING 5RH OR OT OR APPROVED EQUAL.
- MOUNT POLES ON CONCRETE BASES PLUMB & TRUE, UTILIZING SHIMS AS REQUIRED & ENSURE COMPLETE ELECTRICAL CONNECTION. SECURE ANCHOR POLE TO CONCRETE PILE.
- POLES SHALL BE LOCATED AS PER THE CONSTRUCTION DRAWING. EXACT LOCATIONS OF THE POLES SHALL BE INSPECTED & APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO EXCAVATION FOR NEW CONCRETE PILES.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW/APPROVAL OF THE POLES, CONCRETE BASES & ANCHOR DETAILS TO THE CONTRACT ADMINISTRATOR.

THE CITY OF WINNIPEG PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT MUNICIPAL ACCOMMODATIONS DIVISION 3-65 GARRY STREET, R3C 4K4		SHEET TITLE LUMINAIRE POLE BASE DETAIL CABLE TRENCH DETAIL & SPECIFICATIONS FRICTION PILE		PROJECT STANDARD CONSTRUCTION DETAILS FOR OUTDOOR HOCKEY RINKS	
DRAWN BY: MMK/SMD/LMC	DESIGNED BY:	CHECKED BY: B.KAZUN	APPROVED BY: B.KAZUN	DATE: 2016.01.06	SCALE: AS SHOWN
			eFILE: HOCKEY RINKS_2016.dwg	PROJECT No:	SHEET No: <b>A1</b>