

APPLICANT
EMPIRE RESORTS REAL ESTATE I, LLC
204 STATE ROUTE 17B
MONTICELLO, NY 12701

8ITE/CML ENGINEER

QAKRF

AKRF ENGINEERING, P.C.
34 SOUTH BROADWAY, SUITE 401
WHITE PLAINS, NY 10601
(914) 948-7338

SURVEYOR
CONTRACTORS' LINE & GRADE
SOUTH, LLC
23 NEPPERHAN AVENUE
ELMSFORD, NY 10523
(914) 347-3141

SURVEYOR
ON-SITE ENGINEERING, SURVEYING, &
LANDSCAPE ARCHITECTURE, P.C.
3 GARRET PLACE
CARMEL, NY. 10512
(845) 225-9690



SONNY KONG, P.E.

[illegible]

**MONSTER GOLF
MAINTENANCE BUILDING
FINAL DESIGN**

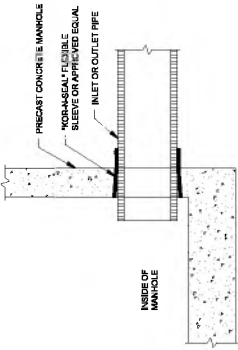
SCALE	DATE
DRAWN BY JWH	CHECKED BY SK
AS NOTED	06/28/2019

DETAILS

SHEET NO.

C-908

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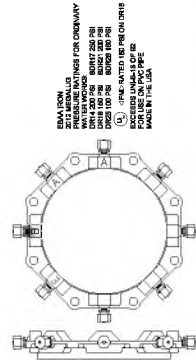


2 PIPE PENETRATION (PROPOSED SANITARY MANHOLE) NTS

Minimum lengths of Pipe (ft.) to be restrained	
Fitting Type	
50° Horiz. Bend	8
90° Horiz. Bend	15
45° Horiz. Bend	12
22.5° Horiz. Bend	7
11.25° Horiz. Bend	3
8"x8" (20)	2
8"x8" (15)	1
8"x8" (12)	-
8"x8" (7)	-
8"x6" (20)	2
8"x6" (15)	-
8"x6" (12)	1
8"x6" (7)	-
8"x6" (4)	-
8"x4" (20)	-
8"x4" (15)	-
8"x4" (12)	-
8"x4" (7)	-
Reducer (Larger Pipe Restraint)	19
8"x6"	-

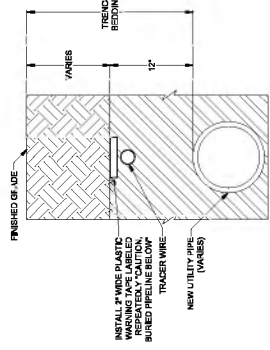
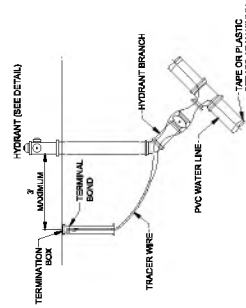
NOTES

1. THE DATA IN THE WATER PIPE RESTRAINT JOINT TABLE IS BASED UPON THE FOLLOWING INSTALLATION CONDITIONS:
 SOIL TYPE - SM (CLAY SAND, SAND-SILT, MATHIES)
 TEST PRESSURE - 150 PSI
 JOINT TYPE - 150 PSI
 TRENCH TYPE - A
 SAFETY FACTOR - 1.5
2. THE RESTRAINED PIPE LENGTHS APPLY TO DUCTILE IRON PIPE AND ALL JOINTS BETWEEN UPPER AND LOWER SECTIONS SHALL BE RESTRAINED.
3. RESTRAINED PIPE LENGTHS FOR VALVES APPLY TO PIPE ON BOTH SIDES OF VALVE.
4. UNRESTRAINED JOINTS SHALL EXTEND ONE JOINT BEYOND MIN. LENGTH REQUIRED.



STEEL-IRON
 1012 MEDALL
 PRESSURE RATINGS FOR ORDINARY
 WATER WORKS
 DN14 200 PSI 80R17 250 PSI
 DN18 160 PSI 80R21 200 PSI
 DN25 100 PSI 80R28 100 PSI
 (U₁) $\leq$ (P₁)-RATED 180 PSI ON DN18
 EXCEEDS UNITS OF 52
 FOR USE ON PVC PIPE
 MADE IN THE USA

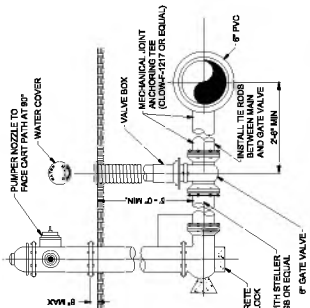
7 WATER PIPE RESTRAINT JOINT TABLE



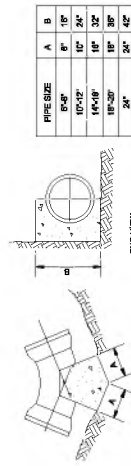
TAPE COLOR DESIGNATION TABLE	
COLOR	UTILITY
RED	ELECTRIC
YELLOW	GAS
ORANGE	TELECOMMUNICATIONS
BLUE	WATER LINES
GREEN	SANITARY SEWER LINES

NOTE

1. PRIOR TO BACKFILL, TRACER WIRE ON TOP AND SECURE IN PLACE WITH 1/2" GALVANIZED STEEL WIRE. USE THE SAME COLOR DESIGNATION FAMILY.
2. MAINTAIN TRACER WIRE ON TOP CONTINUING.
3. USE AWG 10 STANDARD COPPER WIRE WITH HIGH MOLECULAR WEIGHT POLYETHYLENE INSULATION SPECIFICALLY DESIGNED FOR DIRECT BURIAL.
4. PROTECT WIRE INSULATION FROM DAMAGE DURING INSTALLATION AND BACKFILL.
5. ALL TRACER WIRE MUST BE TESTED AND VERIFIED BY THE ENGINEER.
6. TRACER WIRE IS TO BE CONNECTED TO TERMINATION BOX INSTALLED ADJACENT TO THE TRENCH. TRACER WIRE IS TO BE COILED UP INSIDE TRENCH. END OF FEET OF TRACER WIRE COILED UP INSIDE TOP OF TERMINATION BOX. CONNECT TRACER WIRE TO TERMINAL BUSH.
7. TRENCH BEDDING MATERIAL SHALL CONFORM WITH TYPICAL UTILITY TRENCH DETAIL AND SPECIFICATION SECTION.

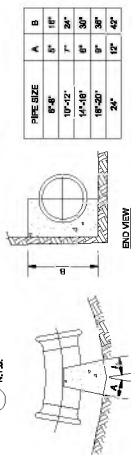


6 UT-8
UTILITY TRACER WIRE



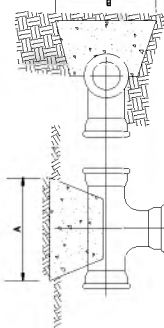
1 **DETAIL OF 45° BEND ANCHOR**

PIPE SIZE	A	B
6"-8"	6"	16"
10"-12"	10"	24"
14"-18"	16"	32"
18"-20"	18"	36"
24"	24"	42"

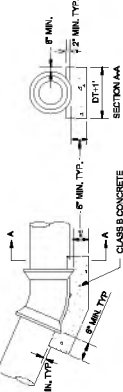


3 DETAIL OF 22.5° BEND ANCHOR

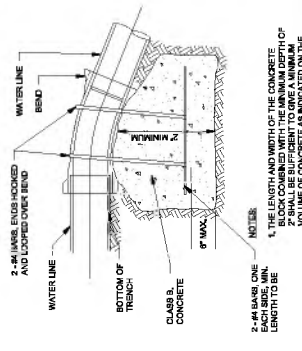
PIPE SIZE	A	B
8"-8"	14"	18"
10"-12"	16"	24"
14"-16"	48"	32"
18"-20"	60"	40"
24"	72"	48"



DETAIL OF TEE ANCHOR



5 NTR
DETAIL OF THRUST DISTRIBUTION BLOCK



8 ^{NT8} DETAIL OF CONCRETE ANCHOR

9 NT8. TYPICAL HYDRANT SECTION

10 PVC MECHANICAL JOINT RESTRAINT N.T.B.

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