BRIGHTON DALE LINKS - RED PINE

SHEET	DESCRIPTION
LI-0	COVER
LI-1	IMPACT COVERAGE PLAN
LI-2	HYDRAULIC PIPING PLAN
LI-3	ELECTRICAL SCHEMATIC PLAN
LI-4	SITE IRRIGATION PLAN
LI-5	IRRIGATION DETAILS



NOTE:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF THE ABOVE AND ANY OTHER PLANS THAT PERTAIN TO THE COORDINATION OF THE IRRIGATION CONSTRUCTION, WHETHER THEY BE NOTED OR NOT.

2. IRRIGATION PLANS AND SPECIFICATIONS ARE DIAGRAMMATIC IN NATURE AND ARE NOT A LIST OF INSTRUCTIONS FOR CONSTRUCTION, BUT RATHER TO ILLUSTRATE A DESIGN INTENT. THEREFORE ANY AND ALL CHANGES, CONFLICTS, DISCREPANCIES, OMISSIONS, AND QUESTIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE SAID IRRIGATION CONSULTANT DURING THE BIDDING AND CONSTRUCTION PERIOD IN WRITING.





11/03/2022

SHEET #:

LEGEND MANUFACTURER/MODEL/DESCRIPTION Toro INF54-538-2 1-1/2" ACME inlet turf sprinkler, full circle, pressure regulation at 45 80psi, Spike Guard Solenoid Toro INF54-558-2 1-1/2" ACME inlet turf sprinkler, full circle, pressure regulation at 271 80psi, Spike Guard Solenoid Toro INF55-548-2 1-1/2" ACME inlet turf sprinkler, part-circle and full-circle in one, pressure regulation at 80psi, Spike Guard Solenoid Toro INF55-578-2 1-1/2" ACME inlet turf sprinkler, part-circle and full-circle in one, pressure regulation at 80psi, Spike Guard Solenoid MANUFACTURER/MODEL/DESCRIPTION One-Piece, 1" Single Lug Quick Coupler Valve with Standard Metal Cover. RT/RW Isolation Valve (3" Laterals) RT/RW Isolation Valve - Line Sized (Mains) Bermad C30 Air/Vacuum Relief Valve (5) To Be Field Located By Irrigation Consultant Drain/Fill Valve Toro G4 OSMAC Controller w/ plastic green cabinet, radio 9 control, large terminal block, switches, and premium surge - See plan for station counts. Toro T107-SP-XXXX Wireless/Solar Weather Station - Actual Location By Owner Toro LX-04-5-21 Toro Lynx Central Control Software w/ premium computer, (5) years NSN support, (2) Apple iPads w/ LifeProof Cases - Actual Location By Owner Pump Station —— Irrigation Lateral Line: PVC Class 200 SDR21 25,466 l.f. Irrigation Mainline: PVC Class 200 SDR21 13,329 l.f. ____ . ___ . ___ 120vac Power Wire Pair W/ Grn (Tray Cable) - As Per Local Codes - Irrigation Zone Limits

DESIGN NOTES

Responsible For Actual Bid Counts.

Note: All Quantities Are For Reference Only. Contractor

 ALL PRODUCT APPLICATIONS AND INSTALLATIONS MUST MEET MANUFACTURER'S REQUIREMENTS. 2. FLOW RATES THROUGH HDPE PIPING NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS.

3. PIPING AS SHOWN IS DIAGRAMMATIC IN NATURE. ALL PIPING TO BE LOCATED WITHIN OWNER'S PROPERTY LINES. 4. CONTRACTOR IS RESPONSIBLE FOR PROPER OPERATION OF IRRIGATION SYSTEM. SYSTEM SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS AND SHALL WATER ALL SEEDED AND SODDED AREAS NOTED. IRRIGATION PLAN IS INTENDED TO INCLUDE EVERYTHING NECESSARY TO THE PROPER OPERATION OF SAID IRRIGATION SYSTEM. IF ADJUSTMENTS ARE REQUIRED, CONTRACTOR SHALL MAKE ADJUSTMENTS FOR SAME.

5. IRRIGATION PLANS SHALL HAVE PRECEDENCE OVER IRRIGATION SPECIFICATIONS. ANY DISCREPANCIES BETWEEN THESE TWO DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE IRRIGATION CONSULTANT BEFORE INSTALLATION.

6. IT IS THE INTENT TO KEEP IRRIGATION WATER OFF OF ALL BUILDINGS, SIDEWALKS AND PARKING AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FIELD TUNE EACH SPRINKLER AS TO KEEPING IRRIGATION ADJUSTED TO GRASSED AND SEEDED AREAS ONLY. IT WILL ALSO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO SUPPLY THE OWNER WITH AN OPERATING SCHEDULE THAT WORKS WITH EXISTING PLANS AND ANY FIELD ADJUSTMENTS.

7. IT IS THE INTENT OF THE IRRIGATION DESIGN TO ACHIEVE HEAD TO HEAD COVERAGE IN ALL GRASSED AND SEEDED AREAS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ADJUST FOR SAME.

8. IRRIGATION PLANS ARE DIAGRAMMATIC IN NATURE CONTRACTOR WILL BE RESPONSIBLE FOR THE LOCATION OF <u>ALL</u> EQUIPMENT AS STAKED BY IRRIGATION CONSULTANT. SAID EQUIPMENT, WHEN FIELD LOCATED, MAY VARY FROM PROPOSED PLAN DUE TO SITE CONDITIONS AND CONTRACTOR WILL MAKE ADJUSTMENTS ACCORDINGLY AT NO ADDITIONAL COST TO OWNER.

PLUMBING NOTES:

1. ALL HDPE FITTINGS SHALL BE FUSION COMPATIBLE AND HEAT FUSED WITH SPRINKLERS MOUNTED ON AQUAFUSE FUSIBLE SADDLES. NO BRAND MIXING ALLOWED AND CONTRACTOR/EQUIPMENT TO BE SITE CERTIFIED BY SUPPLIER AS SPECIFIED — NO EXCEPTIONS. 2. ALL PIPE SHALL BE CARRIED IN SEPARATE TRENCH.

ELECTRICAL NOTES:

1. ALL 120 V.A.C. POWER SPLICES AT FIELD SATELLITES. 2. ALL POWER WIRE TAPS AND CONNECTIONS SHALL CONFORM TO ALL LOCAL AND STATE CODES AND PERFORMED BY LICENSED ELECTRICIAN.

3. 24" LOOP OF WIRE LOCATED BELOW EACH HEAD.

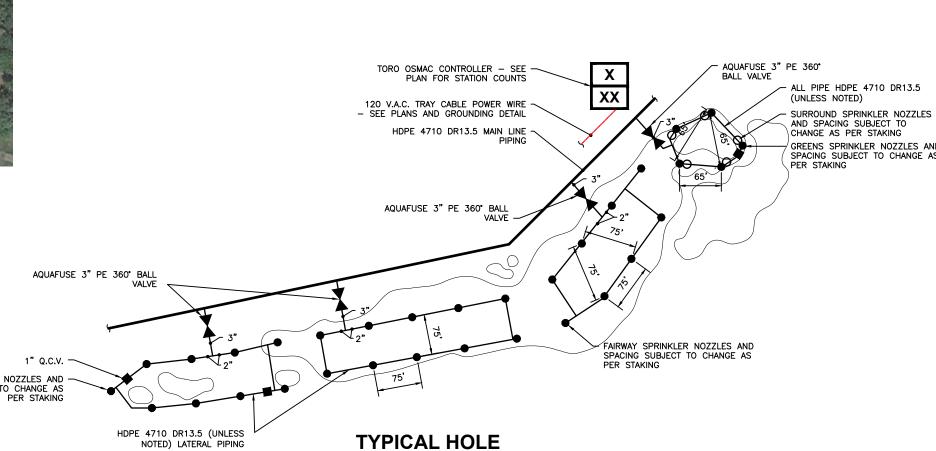
4. ALL 24 V.A.C. SECONDARY WIRING SHALL BE (RED) #14 HOT AND (WHITE) #12 COMMON. (ONE HOT WIRE PER HEAD) 5. ALL WIRE SHALL HAVE ENOUGH SLACK AS TO ACCOMMODATE FOR EXPANSION AND/OR CONTRACTION. 6. ALL WIRE TO BE UL APPROVED FOR DIRECT BURIAL.

7. ALL 120 V.A.C. PRIMARY, AND 24 V.A.C. SECONDARY POWER TO BE INSTALLED AS PER STATE AND LOCAL CODES. SIZED AS PER PLAN WITH GROUND WIRE; MEETING N.E.C. REQUIREMENTS. 8. ONE SPARE HOT (#14) WIRE TO EACH GREEN AND TEE COMPLEX AND MARKED AS SPACE (BLUE IN COLOR).

PROGRAMMING NOTES:

1. FIELD SATELLITES SHALL CARRY APPROPRIATE STATION CARDS FOR INDIVIDUAL HEAD CONTROL OF ALL SPRINKLERS. 2. ALL SPRINKLERS SHALL HAVE <u>ONE WIRE</u> (HOT 24 V.A.C.) TO RESPECTIVE FIELD SATELLITE. 3. ALL SATELLITE LOCATIONS SHALL BE IN ACCORDANCE WITH RAIN FALL SURVEYS AND OUT OF 100 YEAR FLOOD PLAIN.

SATELLITE NUMBER



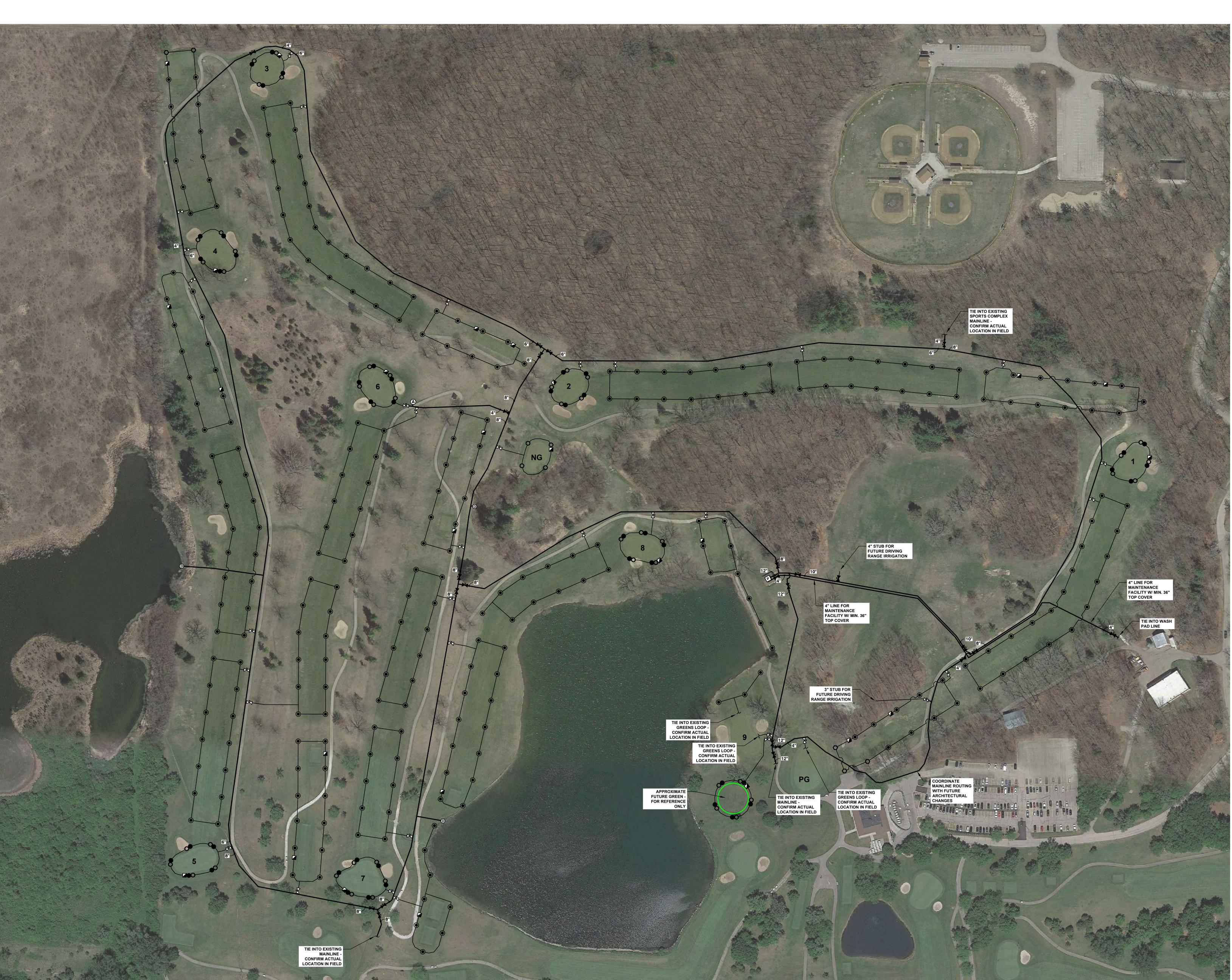
NORTH

TYPICAL HOLE

DATE: 11/03/2022

11/03/2022 SHEET #:

SHEET #:



LEGEND MANUFACTURER/MODEL/DESCRIPTION Toro INF54-538-2 1-1/2" ACME inlet turf sprinkler, full circle, pressure regulation at 45 80psi, Spike Guard Solenoid Toro INF54-558-2 1-1/2" ACME inlet turf sprinkler, full circle, pressure regulation at 271 80psi, Spike Guard Solenoid Toro INF55-548-2 1-1/2" ACME inlet turf sprinkler, part-circle and full-circle in one, pressure regulation at 80psi, Spike Guard Solenoid Toro INF55-578-2 1-1/2" ACME inlet turf sprinkler, part-circle and full-circle in one, pressure regulation at 80psi, Spike Guard Solenoid MANUFACTURER/MODEL/DESCRIPTION One-Piece, 1" Single Lug Quick Coupler Valve with Standard Metal Cover. RT/RW Isolation Valve (3" Laterals) RT/RW Isolation Valve - Line Sized (Mains) Bermad C30 Air/Vacuum Relief Valve (5) To Be Field Located By Irrigation Consultant Drain/Fill Valve Toro G4 OSMAC Controller w/ plastic green cabinet, radio 9 control, large terminal block, switches, and premium surge - See plan for station counts. Toro T107-SP-XXXX Wireless/Solar Weather Station - Actual Location By Owner Toro LX-04-5-21 Toro Lynx Central Control Software w/ premium computer, (5) years NSN support, (2) Apple iPads w/ LifeProof Cases - Actual Location By Owner Pump Station —— Irrigation Lateral Line: PVC Class 200 SDR21 25,466 l.f. Irrigation Mainline: PVC Class 200 SDR21 13,329 l.f. ____ . ___ . ___ 120vac Power Wire Pair W/ Grn (Tray Cable) - As Per Local Codes - Irrigation Zone Limits Note: All Quantities Are For Reference Only. Contractor Responsible For Actual Bid Counts.

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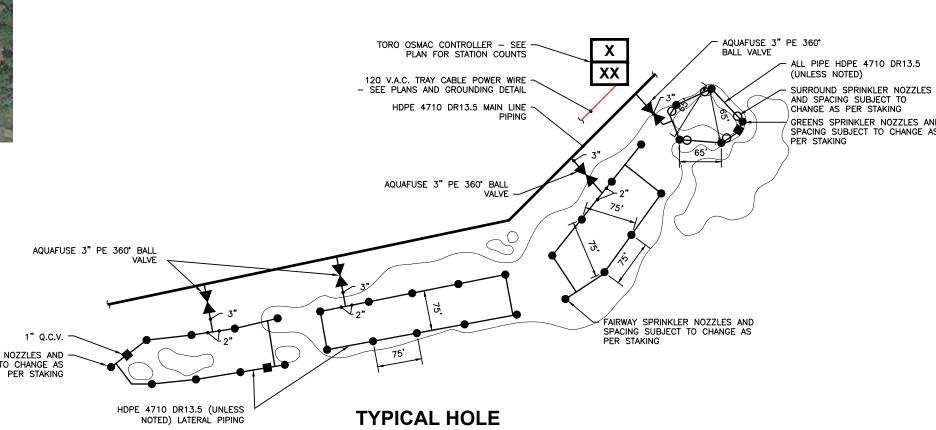
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X SATELLITE NUMBER

XX APPROXIMATE STATION COUNT



100 200 300 f

NORTH

DATE: 11/03/2022

SHEET #:
LI-3

CENTRAL, WEATHER STATION, AND PUMP STATION ANTENNAS -ACTUAL LOCATION BY LEGEND MANUFACTURER/MODEL/DESCRIPTION Toro INF54-538-2 1-1/2" ACME inlet turf sprinkler, full circle, pressure regulation at 45 80psi, Spike Guard Solenoid Toro INF54-558-2 1-1/2" ACME inlet turf sprinkler, full circle, pressure regulation at 80psi, Spike Guard Solenoid Toro INF55-548-2 1-1/2" ACME inlet turf sprinkler, part-circle and full-circle in one, pressure regulation at 80psi, Spike Guard Solenoid Toro INF55-578-2 1-1/2" ACME inlet turf sprinkler, part-circle and full-circle in one, pressure regulation at 80psi, Spike Guard Solenoid MANUFACTURER/MODEL/DESCRIPTION One-Piece, 1" Single Lug Quick Coupler Valve with Standard Metal Cover. RT/RW Isolation Valve (3" Laterals) RT/RW Isolation Valve - Line Sized (Mains) Bermad C30 Air/Vacuum Relief Valve (5) To Be Field Located By Irrigation Consultant Drain/Fill Valve Toro G4 OSMAC Controller w/ plastic green cabinet, radio 9 control, large terminal block, switches, and premium surge - See plan for station counts. Toro T107-SP-XXXX Wireless/Solar Weather Station - Actual Location By Owner Toro LX-04-5-21 Toro Lynx Central Control Software w/ premium computer, (5) years NSN support, (2) Apple iPads w/ LifeProof Cases - Actual Location By Owner Pump Station —— Irrigation Lateral Line: PVC Class 200 SDR21 25,466 l.f. Irrigation Mainline: PVC Class 200 SDR21 13,329 l.f. ____ . ___ . ___ 120vac Power Wire Pair W/ Grn (Tray Cable) - As Per Local Codes - Irrigation Zone Limits

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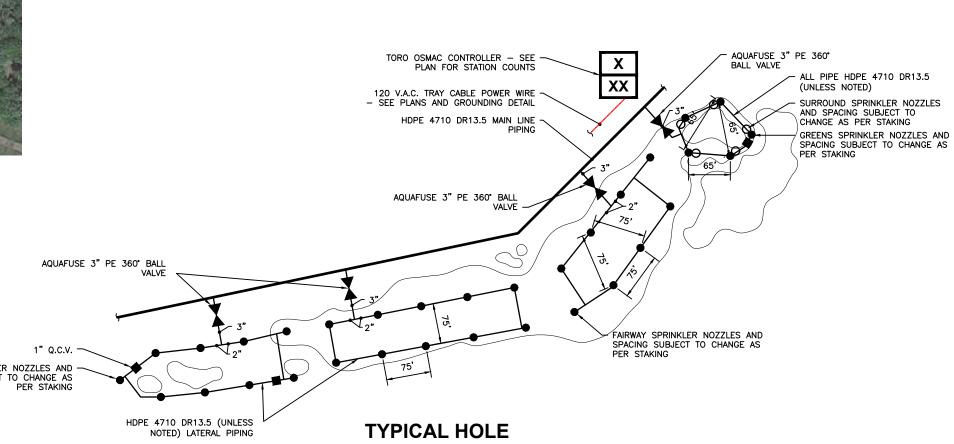
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X SATELLITE NUMBER

XX APPROXIMATE STATION COUNT



0 100 200 300 fe NORTH 1" = 100'

11/03/2022

SHEET #:



LEGEND MANUFACTURER/MODEL/DESCRIPTION Toro INF54-538-2 1-1/2" ACME inlet turf sprinkler, full circle, pressure regulation at 45 80psi, Spike Guard Solenoid Toro INF54-558-2 1-1/2" ACME inlet turf sprinkler, full circle, pressure regulation at 80psi, Spike Guard Solenoid Toro INF55-548-2 1-1/2" ACME inlet turf sprinkler, part-circle and full-circle in one, pressure regulation at 80psi, Spike Guard Solenoid Toro INF55-578-2 1-1/2" ACME inlet turf sprinkler, part-circle and full-circle in one, pressure regulation at 80psi, Spike Guard Solenoid MANUFACTURER/MODEL/DESCRIPTION One-Piece, 1" Single Lug Quick Coupler Valve with Standard Metal Cover. RT/RW Isolation Valve (3" Laterals) RT/RW Isolation Valve - Line Sized (Mains) Bermad C30 Air/Vacuum Relief Valve (5) To Be Field Located By Irrigation Consultant Drain/Fill Valve Toro G4 OSMAC Controller w/ plastic green cabinet, radio 9 control, large terminal block, switches, and premium surge - See plan for station counts. Toro T107-SP-XXXX Wireless/Solar Weather Station - Actual Location By Owner Toro LX-04-5-21 Toro Lynx Central Control Software w/ premium computer, (5) years NSN support, (2) Apple iPads w/ LifeProof Cases - Actual Location By Owner Pump Station —— Irrigation Lateral Line: PVC Class 200 SDR21 25,466 l.f. Irrigation Mainline: PVC Class 200 SDR21 13,329 l.f. ____ . ___ . ___ 120vac Power Wire Pair W/ Grn (Tray Cable) - As Per Local Codes - Irrigation Zone Limits Note: All Quantities Are For Reference Only. Contractor Responsible For Actual Bid Counts.

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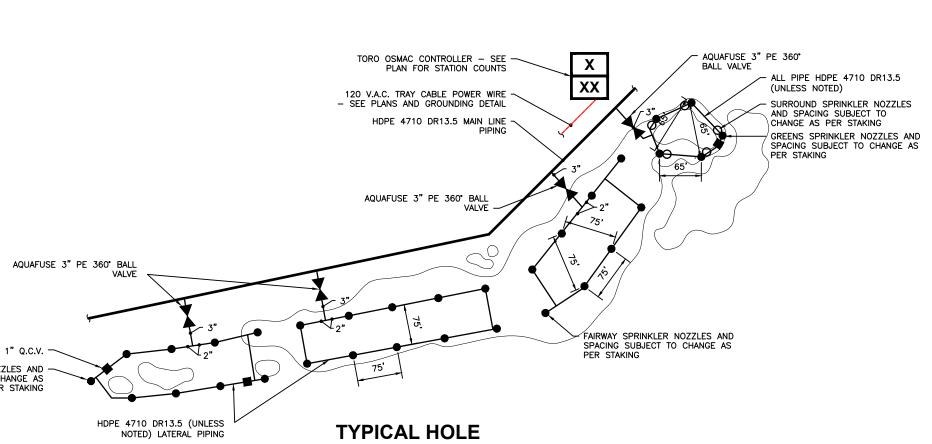
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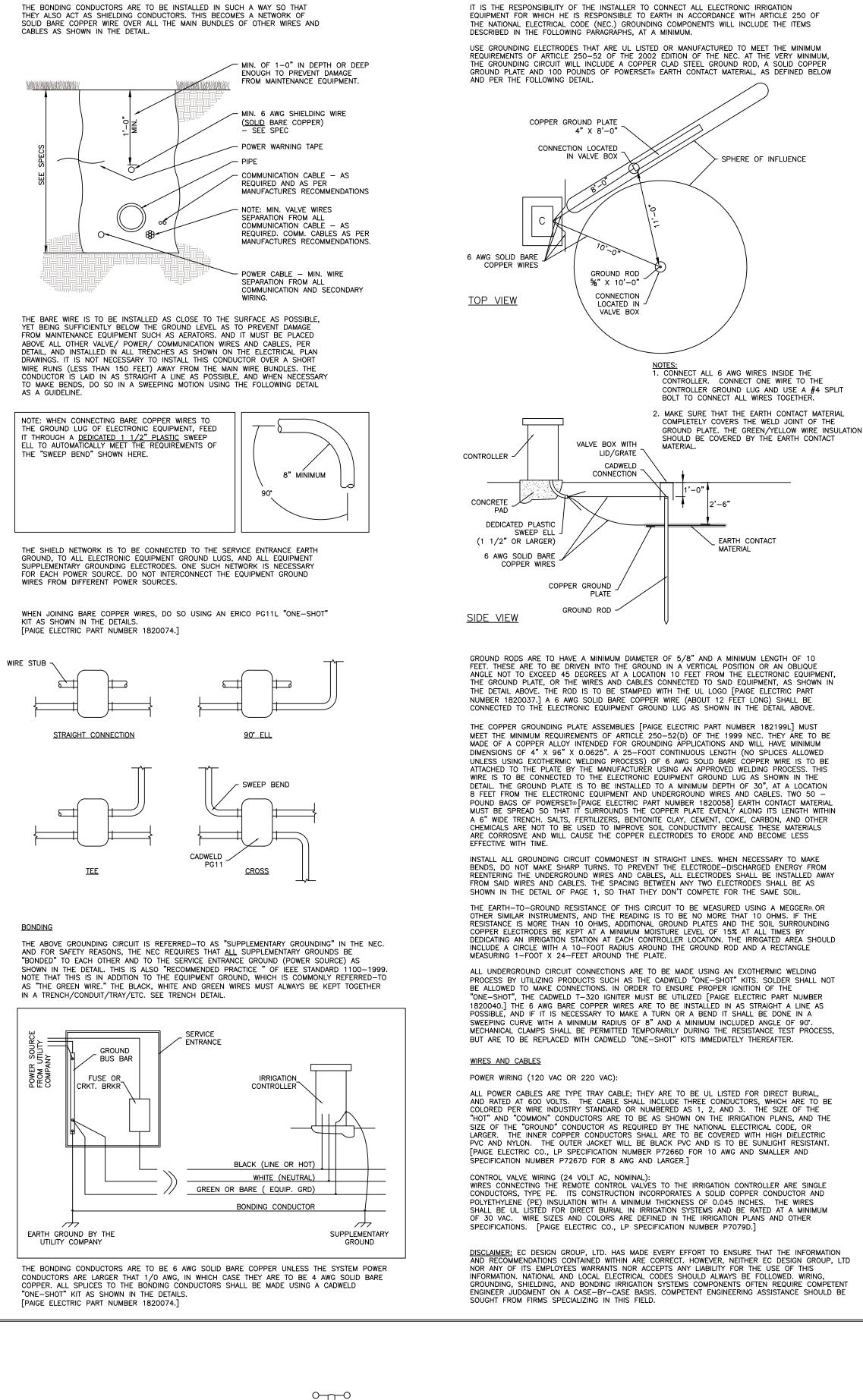
SATELLITE NUMBER



NORTH



11/03/2022 SHEET #:



SOLAR POWERED

STATION TO CENTRAL LOCATION (MAINT. BLDG.)

GROUNDING DEVICE TO PROVIDE 10 OHMS RESISTANCE.

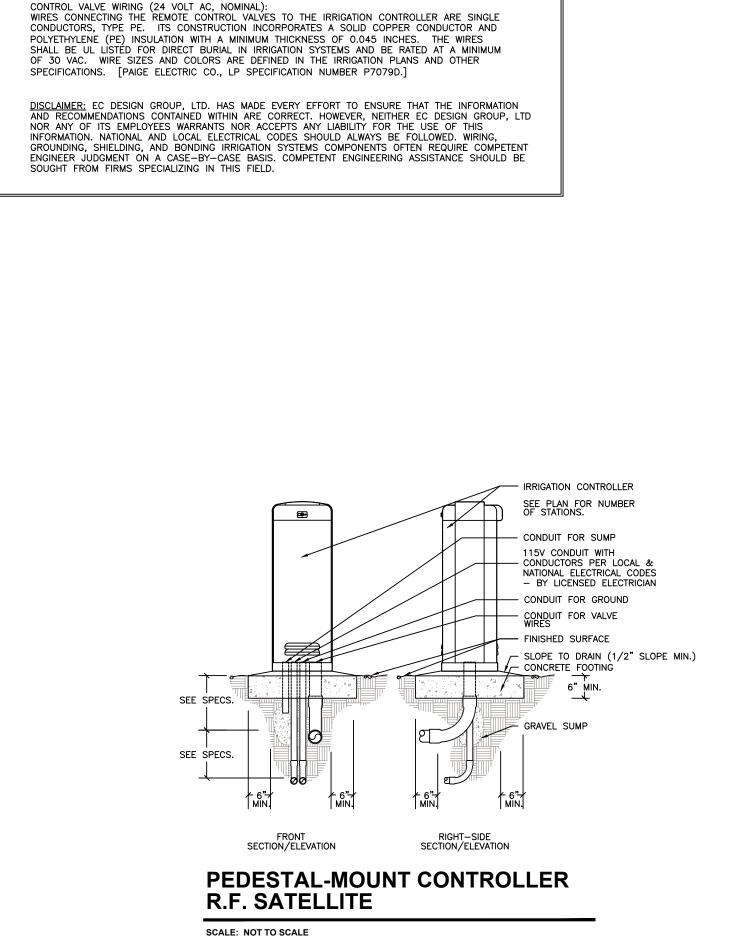
SEE GROUNDING PLATE DETAIL.

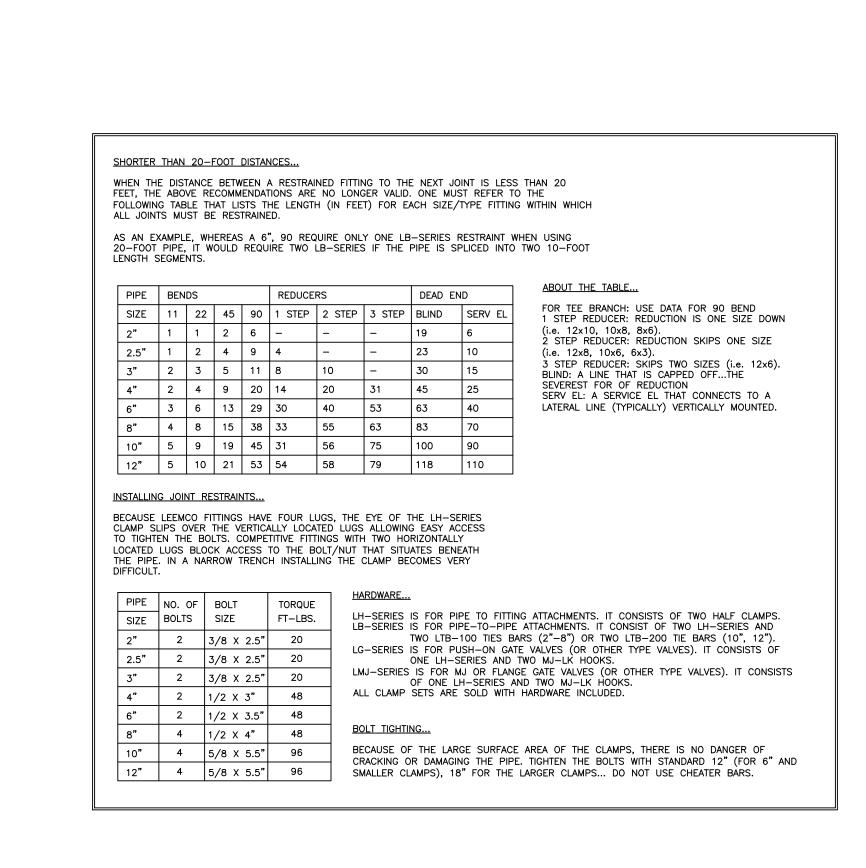
R.F. WEATHER STATION

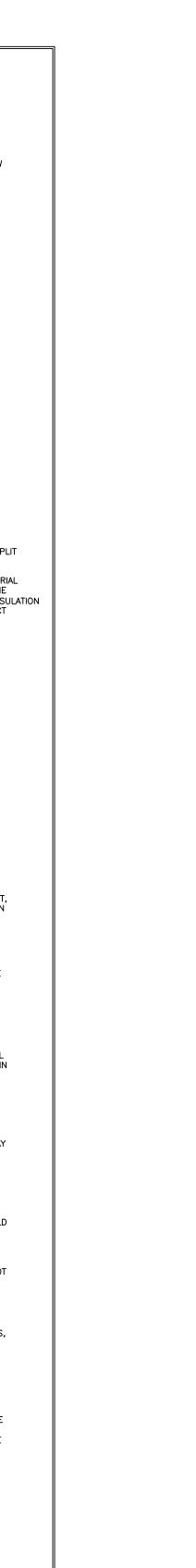
SCALE: NOT TO SCALE

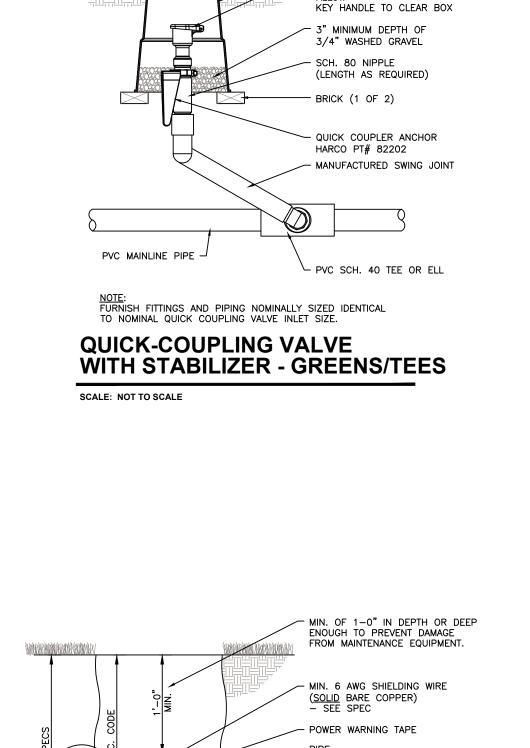
EARTH GROUNDING

IT IS THE RESPONSIBILITY OF THE INSTALLER TO CONNECT ALL ELECTRONIC IRRIGATION EQUIPMENT FOR WHICH HE IS RESPONSIBLE TO EARTH IN ACCORDANCE WITH ARTICLE 250 OF









- FINISH GRADE

QUICK-COUPLING VALVE:

- VALVE BOX WITH COVER

INSTALLED AT HEIGHT TO

COMMUNICATION CABLE – AS REQUIRED AND AS PER

SEPARATION FROM ALL COMMUNICATION CABLE — AS

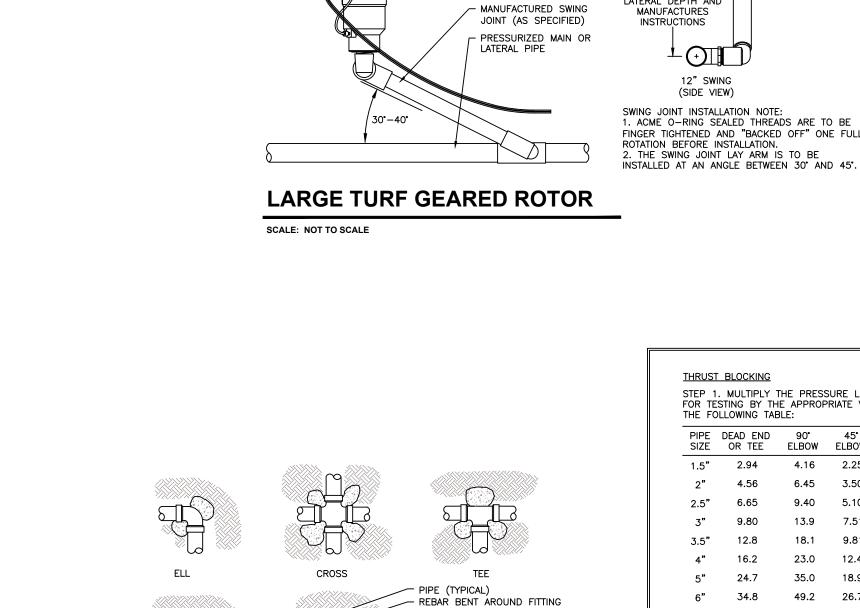
- POWER CABLE - MIN. WIRE

WIRING (AS APPLICABLE).

COMMUNICATION AND SECONDARY

MANUFACTURES RECOMMENDATIONS

MANUFACTURES RECOMMENDATIONS.



FITTING (TYPICAL)

NOTE:
ALL MAINLINE AND LATERAL CHANGE OF DIRECTION THAT
ARE TRENCHED OR OPENED SHALL RECEIVE THRUST
BLOCKING OR JOINT RESTRAINTS. — SEE THRUST BLOCKING
TABLE FOR BEARING STRENGTH. FURTHERMORE ANY SOILS
NOT STABLE FOR ADEQUATE THRUST BLOCKING, SAID
FITTINGS MUST UTILIZE JOINT RESTRAINTS AT NO
ADDITIONAL COST TO OWNER. IT IS ULTIMATELY THE
CONTRACTORS RESPONSIBILITY TO INSTALL THE
APPROPRIATE APPLICATION TO ENSURE THAT THE FITTING
OR VALUE DOES NOT MOVE FROM A QUITMARD DEFINCTION

OR VALVE DOES NOT MOVE FROM A OUTWARD DEFLECTION.

THRUST BLOCK

SCALE: NOT TO SCALE

- CONCRETE THRUST BLOCK

- UNDISTURBED SOIL (TYPICAL)

NOTE: INSTALL SPRINKLER AT FINISHED GRADE

SWING JOINT IS REQUIRED -TO HAVE THE "M" INLET

45° ELL

CONNECTION (MALE ACME

INSTALLATION NOTES: CUT PIPE END SQUARE AND BEVEL AT 15' TO 20' FOR PROPER INSERTING. MARK PIPE TO INDICATE PROPER INSERTION DEPTH. APPLY APPROVED PIPE LUBRICANT FROM

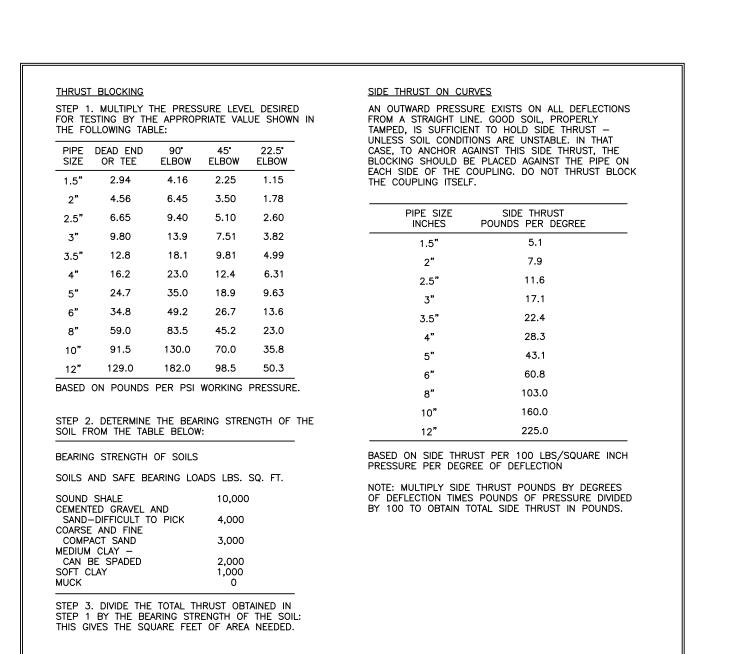
MARK). INSERT PIPE INTO TAP'T COUPLING UNTIL

LATERAL DEPTH AND

END TO PIPE INSERTION DEPTH (REFERENCE

MARK REACHES GASKET.

APPROVED BACKFILL



FINISH GRADE -

VALVE BOX WITH COVER -

NOTCH PIPE TO FIT VALVE

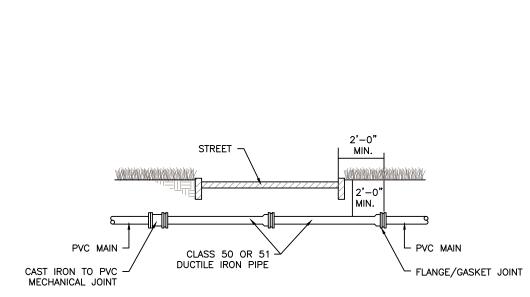
PIPE TO PIPE RESTRAINT, -HARCO PT# 82xx15 OR EQUAL

PVC MAIN LINE PIPE 7

GATE VALVE —

SCALE: NOT TO SCALE

CAST IRON VALVE DETAIL - MJ

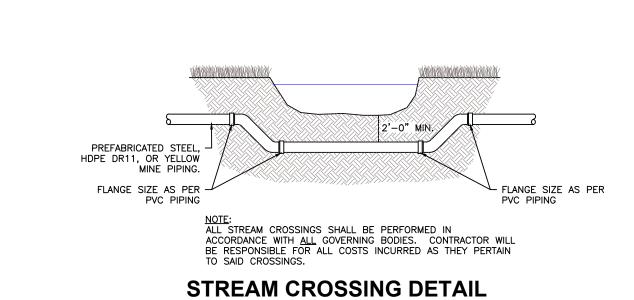


ROAD CROSSING DETAIL

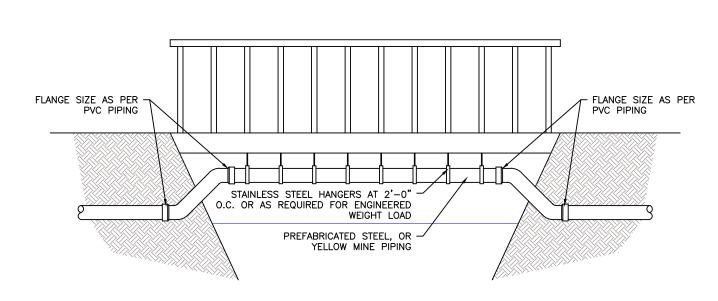
SCALE: NOT TO SCALE

TRENCH CROSS SECTION

SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



NOTE:
ALL 120 V.A.C AND 24 V.A.C. SHALL BE CARRIED IN SEPARATE
PVC CLASS 315 SLEEVES. ALL SLEEVES SHALL BE INSTALLED
AS PER LOCAL, STATE AND FEDERAL CODES. **BRIDGE CROSSING DETAIL**

SCALE: NOT TO SCALE