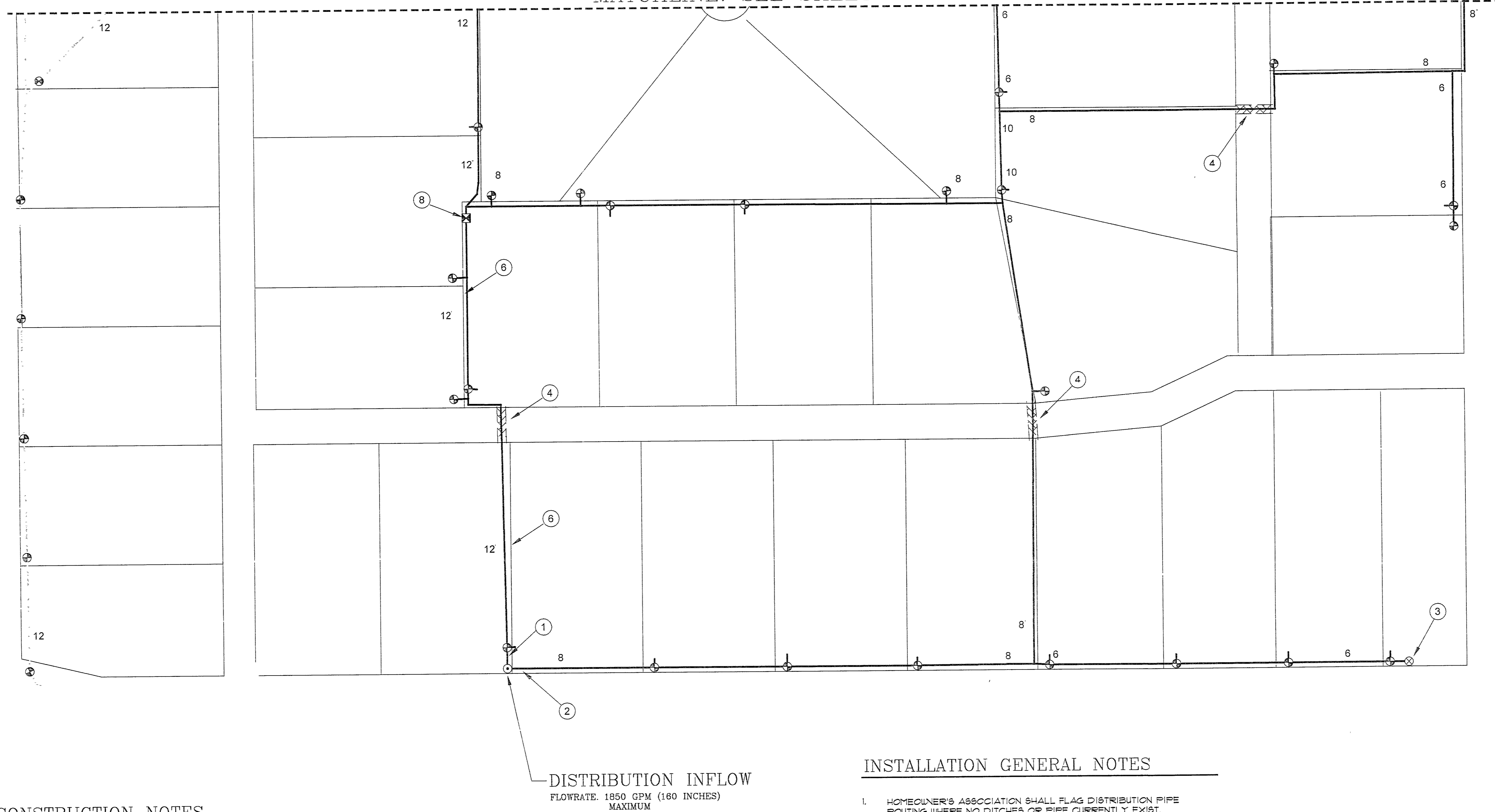


MATCHLINE: SEE SHEET HM1



DISTRIBUTION INFLOW  
FLOWRATE: 1850 GPM (160 INCHES)  
MAXIMUM

**CONSTRUCTION NOTES**

- 1 CONTRACTOR SHALL MAKE CONNECTION TO EXISTING 12" STEEL PIPE AT THIS APPROXIMATE LOCATION. USE DRESSER STYLE FITTING TO TRANSITION TO PVC PIPE.
- 2 CONTRACTOR SHALL MAKE CONNECTION TO EXISTING 12" STEEL PIPE AT THIS APPROXIMATE LOCATION. USE DRESSER STYLE FITTING TO TRANSITION TO PVC PIPE AND THE APPROPRIATE PRESSURE RATED FITTINGS TO DOWNSIZE THE PIPE.
- 3 CONTRACTOR SHALL INSTALL ISOLATION GATE VALVE AT END OF DISTRIBUTION PIPE FOR DRAIN. SEE DETAIL FOR DRAIN CONFIGURATION.
- 4 CONTRACTOR SHALL INSTALL NEW SLEEVE, SIZED 15 TIMES THE DIAMETER OF THE PIPE PASSING THROUGH, ALONG SIDE EXISTING DRAINAGE CULVERT. SAW CUT THE PAVEMENT, TRENCH, REFILL AND PATCH PAVEMENT AS SPECIFIED AND AS SHOWN IN DETAILS.
- 5 CONTRACTOR SHALL INSTALL NEW SLEEVE SIZED 15 TIMES THE DIAMETER OF THE PIPE PASSING THROUGH. SAW CUT THE PAVEMENT, TRENCH, REFILL AND PATCH PAVEMENT AS SPECIFIED AND AS SHOWN IN DETAILS.
- 6 EXCAVATE EXISTING PIPE AND TRENCH IN NEW DISTRIBUTION PVC PIPE PER THIS DESIGN, SPECIFICATIONS AND DETAILS. HOMEOWNER'S ASSOCIATION SHALL FLAG LOCATION OF PIPE REROUTING IN THIS AREA.
- 7 CONTRACTOR SHALL INSTALL ISOLATION GATE VALVE AT THIS LOCATION AND ROUTE PIPE TO SURFACE DOWNSTREAM OF ISOLATION GATE VALVE USING 45 DEGREE FITTING. COORDINATE DISCHARGE LOCATION WITH RIVERGLEN HOA.
- 8 CONTRACTOR SHALL COORDINATE INSTALLATION OF OVERFLOW STANDPIPE AT THIS APPROXIMATE LOCATION. INSTALL TEE FITTING WITH ISOLATION VALVE ROUTED INTO A PVC STANDPIPE THAT CAN BE ADJUSTED FOR HEIGHT WITH SLIP FITTINGS AND SPARE PIPE LENGTHS.

**IRRIGATION LEGEND**

- SLEEVES: CLASS 200 PVC
- DISTRIBUTION PIPE: CLASS 100 IPS PVC - SDR41
- - - EXISTING PVC PIPE
- EXISTING DISTRIBUTION VAULT
- EXISTING PUMP STATION/DISTRIBUTION VAULT
- ⊗ ISOLATION GATE VALVE ASSEMBLY
- ⊗ DRAIN VALVE ASSEMBLY
- ⊕ 4-INCH MANUAL VALVE ASSEMBLY WITH FLOW METER FOR HOMEOWNER LOTS
- ⊗ OVERFLOW STANDPIPE

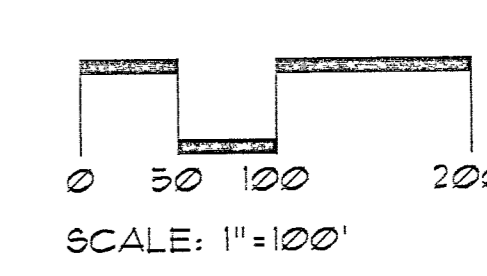
**DESIGN INFORMATION**

PRESSURE CONVERSION:  
1 PSI = 2.31 FEET

MAXIMUM FLOWRATES PER PIPE SIZE:  
4" - 200 GPM = 17 INCHES  
6" - 400 GPM = 35 INCHES  
8" - 800 GPM = 60 INCHES  
10" - 1100 GPM = 94 INCHES  
12" - 1700 GPM = 145 INCHES

**INSTALLATION GENERAL NOTES**

1. HOMEOWNER'S ASSOCIATION SHALL FLAG DISTRIBUTION PIPE ROUTING WHERE NO DITCHES OR PIPE CURRENTLY EXIST. THE CONTRACTOR SHALL WALK THE PROPOSED PIPE ROUTING WITH THE HOMEOWNER'S ASSOCIATION.
2. CONTRACTOR SHALL TRENCH AND ROUTE NEW DISTRIBUTION PIPE WITHIN EXISTING IRRIGATION DITCHES OR PIPE LOCATIONS UNLESS OTHERWISE NOTED. NEW DISTRIBUTION PIPE SHALL NOT BE ROUTED WITHIN EXISTING DRAINAGE DITCHES.
3. CONTRACTOR SHALL INSTALL NEW DISTRIBUTION PIPE ALONG THE SIDE OF EXISTING DRAINAGE DITCHES AND CULVERTS WHERE REQUIRED.
4. CONTRACTOR SHALL USE PLAN AS GUIDELINES FOR INDIVIDUAL HOMEOWNER POINTS OF CONNECTION. IF EXISTING HOMEOWNER'S CONNECTION POINT IS DIFFERENT THAN ON THE PLAN CONSULT WITH HOMEOWNER'S ASSOCIATION ON CORRECT LOCATION.
5. PIPE TRENCHES SHALL BE 30" DEEP FOR 12" AND 10" PIPE. PIPE TRENCHES SHALL BE 24" DEEP FOR 8", 6" AND 4" PIPE.
6. MAIN DISTRIBUTION PIPES SHALL BE IRON PIPE SIZE (IPS) PVC WITH A MINIMUM SDR OF 41. THE 4-INCH PIPE SERVING THE INDIVIDUAL LOTS IS REQUIRED TO BE PVC SCH 80 PER MANUFACTURER'S SPECIFICATIONS. ALL PIPE FITTINGS SHALL BE SCH 80 PVC.
7. CONTRACTOR SHALL USE PIPE AND FITTINGS THAT ARE COMPATIBLE.
8. CONTRACTOR SHALL INSTALL ADDITIONAL DRAIN VALVES IN LOW LYING AREAS FOR WINTER DRAINAGE. CONTACT HINES IRRIGATION CONSULTANTS FOR DETERMINING THE NEED FOR EXTRA DRAIN VALVES DURING CONSTRUCTION.



|            |  |
|------------|--|
| Date:      |  |
| Revisions: |  |
| No.        |  |

**HINES IRRIGATION CONSULTANTS, INC.**  
SYSTEM DESIGN AND WATER MANAGEMENT SERVICES  
344 E. FOOTHILLS PARKWAY, SUITE 1-W  
FORT COLLINS, COLORADO 80525  
Telephone: 970.204.9245  
Fax: 970.226.4662

RIVER GLEN HOA  
IRRIGATION HYDRAULIC DESIGN

|              |          |
|--------------|----------|
| Designed By: | EWP      |
| Drawn By:    | EWP      |
| Checked By:  | RHS      |
| Date:        | 11/29/04 |
| Sheet No:    | HM2 OF 3 |