1340 06-00048-00-RS COOK 36 36

IRRIGATION PLAN/DETAILS/NOTES

ILLINOIS

COUNTY TOTAL SHEET, NO.

SECTION

(1) FINISH GRADE/TOP OF MULCH 2 POP-UP SPRAY SPRINKLER:

(3) PVC LATERAL PIPE WING ASSEMBLY:
RAIN BIRD MODEL SA 6050

POP-UP SPRAY SPRINKLER

1806 WITH SWING PIPE

①

1. LATERAL AND EMITTER SPACING DEPENDS ON SOIL TYPE.

± 1/2" ±1/2"4 1/4"±1

LANDSCAPE DRIPLINE LATERALS

1 1/2" COMMERCIAL CONTROL ZONE KIT

WITH 2 BASKET FILTERS

XCZ-150-CEM

POTABLE SYSTEM

5 PVC SCH 40 TEE OR ELL

AIN BIRD EASY FIT COMPRESSION ADAPTER

EASY FIT COMPRESSION COUPLING: RAIN BIRD MDCFCOUP

LANDSCAPE DRIPLINE TUBING: RAIN BIRD LANDSCAPE DRIPLINE LD-XX-XX

/2-INCH POLYETHYLENE PIPE:

- EASY FIT COMPRESSION COUPLING: RAIN BIRD MDCFCOUP

PVC \$CH 40 ELL PVC \$CH 80 1 1/2' NIPPLE (LENGTH AS REGUIRED)

39-INCH LINEAR LENGTH OF WIRE, COILED WATER PROOF CONNECTIONS RAIN BIRD SPLICE-1 CLOF 2)

ID TAG RAIN BIRD VID SERIES

VALVE BOX WITH COVER RAIN BIRD VS-JMB

PVC LATERALS

PVC SCH 48 MALE ADAPTER (2)

PVC SCH BO NIPPLE, CLUSE (2)

3-INCH MINIHUM DEPTH OF 3/4-INCH WASHED GRAVEL

PVC SCH 80 1' UNION (2) FOR SERVICING ASSEMBLY

BLECK (1 OF 4)

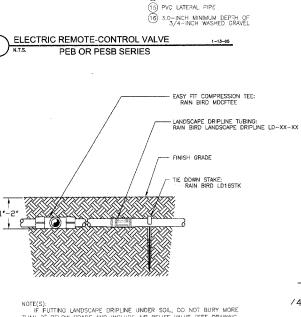
PVC MAINLINE

RAIN BIRD XBS BLACK STRIPE TUBING

	MANUFACTURER/MODEL/DESCRIPTION	QTY	P51
EST CST SST	Rain Bird 1806-U-PRS 4' strip Turf Spray 6' popup with pressure regulator	147	30
(D) (D) (G) (S) (Q) T H F	Rain Bird 1806-U-PR5 8' radius Turf Spray 6" popup with pressure regulator	2	
	MANUFACTURER/MODEL/DESCRIPTION	QTY	
•	Rain Bird XCZ-100-B-COM Drip 1° Rain Bird PEBS valve, 2 - 1° filters and 2-40ps; pressure regulators	2	
×	Rain Bird XCZ-150-COM High flow control zone kit w/ $1\frac{1}{2}$ PESB valve, 2-1" filters, and 2-40ps pressure regulators	1	
	Area to recieve dripline Rain Bird LD-09-12 Landscape dripline with 0.92gph emitters at 12" apart, with emitters offset for triangular pattern	118,8	s.f.
	MANUFACTURER/MODEL/DESCRIPTION	QTY	
⊕	Ram Bird PGA-NP-HAN Electric remote control valve with non-potable handle	6	
2	Rain Bird 3RC ^{2st} Quick Coupler valve, one piece body	2	
A	Rain Bird ESP-LXM-55 ESP-LXM in stainless steel pedestal as provided by RBSC	1	
(BF)	Watts 909 2" Reduced pressure backflow preventer	ı	
	irrigation lateral line: PVC class 200 Only lateral transition pipe sizes $1\frac{1}{4}$ and above are indicated on the plan, with all others being 1° in size	2,298	l.f.
	Irrigation mainline: PVC class 200	1,379	Lf.
	Pipe sleeve: PVC class 200 Typical pipe sleeve for imagation pipe. Pipe sleeve size shall allow for imagation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18' beyond edges of paving or construction	1,377	i.f.
/ #\\ #	Valve Callout Valve Number		
\(\frac{#*}{\pi_0}\)#*	Valve GPM Valve Size		

GENERAL IRRIGATION NOTES

- 1. THIS IRRIGATION DESIGN IS DIAGRAMMATIC. ACTUAL LAYOUT OF PIPING, SPRINKLER HEADS, VALVES, CONTROLLERS AND RELATED EQUIPMENT SHALL BE DETERMINED ON SITE. MINOR FIELD ADJUSTMENTS SHALL SE MADE AT NO ADDITIONAL COST TO THE
- 2. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILES AND MAKE THE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE IRRIGATION SYSTEM AS DESIGNED, DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN AS WELL AS KNOWN OBSTRUCTIONS, GRADES OR DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING, SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE THE EVENT THAT THIS NOTIFICATION IS NOT PROVIDED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND COSTS NECESSARY FOR THE UNOBSTRUCTED OPERATION OF THE SPRINKLER SYSTEM.
- 3. THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE OF SOPSI AT THE POINT OF CONNECTION AND A MAXIMUM FLOW DEMAND OF A OGPM. THE IRRIGATION CONTRACTOR GHALL YERIPY WATER PRESSURES FROM TO CONSTRUCTION. REPORT DIFFERENCES BETWEEN REQUIREMENTS AND ACTUAL READINGS TO THE OWNERS AUTHORIZED REPRESENTATIVE, THE FLOW DEMAND FOR INDIVIDUAL MAINLINES SHALL NOT EXCEED THE FOLLOWING GUIDELINES. 2" CLASS 200=36-55GPM
- 4. THE CONTRACTOR SHALL PROVIDE 1 20V-AC 3Phase POWER SOURCE AT THE CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER.
- 5. A RAIN SENSOR SHALL BE INSTALLED IN THE VICINITY OF THE CONTROLLER. SEE SPECIFICATIONS.
- 6. A QUICX COUPLING VALVE SHALL BE LOCATED AT THE IRRIGATION WATER SUPPLY POINT OF CONNECTION TO PROVIDE FOR A POINT OF INJECTION OF COMPRESSED AIR TO PURGE THE SYSTEM OF RETAINED WATER FOR WINTERZATION.
- 7. PIPE SIZE SHALL CONFORM TO THOSE SHOWN ON DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS FOR LARGER SIZES MAY BE APPROVED. MINIMUM PIPE SHAIL BE I
- 8. ALL LATERAL ZONES SHALL BE CONNECTED TO THE MAINLINE WITH PVC PIPE AND SIZED AS FOLLOWS: (*CLASS 200=0-176PM 1.25*CLASS 200=18-286PM
 - i.5" CLASS 200=29-35GPM
 - 21 CLASS 200=36-55GPM
 - 2.5" CLASS 200=56-85GPM 3" CLASS 200=56-85GPM
- 9. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR AND FLUSH TO FINISH GRADE AND WITH A CLEARENCE OF 2" (MIN.) FROM THE EDGE OF ANY HARD SURFACE UNLESS OTHERWISE SPECIFIED.
- 10. CHECK VALVES SHALL BE INSTALLED ON ALL IRRIGATION HEADS IN AREAS WHERE FINISH GRADE EXCEEDS 4:1, WHERE POST VALVE SHUTOPP DRAINING OF THE IRRIGATION HEAD OCCURS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- LI ALL SPRINK FR HEADS AND VALVES SHALL BE FLUSHED AND ADJUSTED FOR OPTIMUM COVERAGE WITH MINIMUM OVER SPRAY ON WALKS, STREETS, WALLS, ETC.
- 12. ALL WIRES SPLICES TO BE MADE IN VALVE BOX.
- 13. ALL VALVE BOXES TO BE INSTALLED WITH METAL DETECTION IN VALVE BOX LID.
- 14. INSTALL TWO SPARE WIRES PER CONTROLLER, WIRE TO BE RUN TO FURTHEST ZONE VALVE LOCATION FOR EACH CONTROLLER.
- 15. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, INSTALL IRRIGATION SYSTEM IN ACCORDANCE WITH ALL LOCAL AND STATE GOVERNING CODES OF ILLINOIS
- 16. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILED INFORMATION.
- 17. GENERAL CONTRACTOR TO INSTALL IRRIGATION SLEEVES AS SHOWN NO DEEPER THAN 24" WHEREVER POSSIBLE.
- 18. GENERAL CONTRACTOR TO PROVIDE 120VAC TO IRRIGATION CONTROLLER.
- 19. ALL IRRIGATION WORK (SHEETS 34-36) IS PAID FOR THE CONTRACT UNIT PRICE: IRRIGATION SYSTEM



1 30-INCH LINEAR LENGTH OF WIRE, COILED

2 WATERPROOF CONNECTION RAIN BIRD SPLICE-1 (1 OF 2)

(3) ID TAG: RAIN BIRD VID SERIES

(6) FINISH GRADE/TOP OF MULCH

7) PVC SCH 80 NIPPLE (CLOSE)

4 REMOTE CONTROL VALVE: RAIN BIRD PEB-PRS-D

5 VALVE BOX WITH COVER: RAIN BIRD VB-STD

9 PVC SCH 80 N:PPLE (LENGTH AS REQUIRED)

PVC MAINLINE PIPE

SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL

(13) PVC SCH 40 TEE OR ELL (4) PVC SCH 40 MALE ADAPTER

(8) PVC SCH 40 ELL

(10) BRICK (1 OF 4)

NOTE(S): If PUTTING LANDSCAPE DRIPLINE UNDER SOIL, DO NOT BURY MORE THAN $2^{\prime\prime}$ BELLOW GRADE AND INCLUDE AIR RELIEF VALVE (SEE DRAWING-"AIR RELIEF VALVE KIT-AR VALVE K- $7^{\prime\prime}$).

(1)TOP OF MULCH 6606 ⓐ€

(2) FINISH GRADE 330-INCH LINEAR LENGTH OF WIRE, COILED A WATERPROOF CONNECTION
RAIN BIRD SPLICE-1

OF PROPERTY OF THE PROPERTY O (5)ID TAG RAIN BIRD VID SERIES 6 VALVE BOX WITH COVERINATION BIRD VB-JMB
7 PVC SCH 80 NIPPLE, CLOSE
1 DF 3) (1 OF 3)

B PVC SCH 80 NIPPLE

(LENGTH AS REQUIRED)

PVC SCH 40 ELL 11)PVC SCH 40 TEE DR ELL (2) BRICK (1 (1F 4) (3)3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL (4)PVC MAINLINE

SCENTROL ZONE KIT: RAIN BIRD MODEL XCZ-100COM 6 PVC SCH 80 UNION FOR SERVICING ASSEMBLY 7)PVC SCH 40 MALE ADAPTER BPVC LATERAL PIPE

1" COMMERCIAL CONTROL ZONE KIT WITH BASKET FILTER XCZ-100-B-COM

PLANS PREPARED BY: REVISIONS GEWALT HAMILTON ASSOCIATES, INC. Consulting Engineers & Surveyors 850 Furest Edge Drive Vernou Ells, IL 60061 (847) 478-9700 (847) 478-9701 Fax

ILLINOIS DEPARTMENT OF TRANSPORTATION IRRIGATION PLAN/DETAILS/NOTES

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

> DRAWN BY: TEB DESIGNED BY: SJP CHECKED BY: JCG



PIPE SLEEVE TABLE

0'-3"

SLEEEVE SIZE | TOTAL LENGTH

657′-0″

458'-0"

100'-0"

188′-0′

5142 Main Street Skokie, Illimois 60077 (847) 329-9777 Fox (847) 329-9779

SCALE: 1" == 20'

-W-XX-E-



LANDSCAPE DRIPLINE 2" BELOW GRADE N.T.S. WITH EASY FIT TEE - POTABLE SYSTEM

123 4 5