

6

Landscape Architecture PS & E Guide

SECTION 6

Sprinkler Schedule

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Sprinkler Schedule

General Guidelines

The Sprinkler Schedule identifies sprinkler types and specifies component items. Sprinkler symbols are identified on the Sprinkler Schedule, not the Irrigation Legend. The Sprinkler Schedule is available as a cell in the Caltrans CADD Cell Library. The cell name for the Sprinkler Schedule is SPRSCH.

SPRINKLER SCHEDULE																											
SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (PSI)	PRESSURE COMPENSATION	PLUS / MINUS 5% (2)		RADIUS (FT)	WIDTH x LENGTH (FT)	MATERIAL	INLET CONNECTION (NPT) (DN IN INCHES) (INCH)	POSITIVE-LOCKING ADJ. ARC STOP	BACKSPASH PREVENTER	DIFFUSER PIN	DISTANCE CONTROL FLAP	ADJ DISCHARGE	RISER				SWING JOINT (TYPE) (5)	RISER SUPPORT	SPRINKLER PROTECTOR (TYPE)	REMARKS			
						GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)										DISCHARGE		PLASTIC	GALVANIZED					SIZE (IPS INCH)	HEIGHT (INCH)	FLOW SHUTOFF DEVICE

Column Headings

Headings may not be altered, but circled note numbers may be added. Do not change heading names or add other information to boxes in the table above.

Sprinkler Schedule Location

The preferred location for the sprinkler schedule is on a detail sheet with non-standard planting and/or irrigation details (if any) or on a sheet by itself. Sheet title would be LANDSCAPE DETAILS with a sheet identification code of LD-(sheet number).

X: DENOTES REQUIREMENT
 APPLICABLE WHEN CIRCLED BELOW

- 1 See special provisions.
- 2 If pressure-compensating device is specified, the discharge and radii shown reflect its use.
- 3 Arc stop for impacts shall be fitted with a nut and bolt.
- 4 Vinyl-coated cast iron housing.
- 5 Required adjacent to shoulders, curbs, sidewalks and dikes.
- 6 Unless otherwise noted on plans.

Repeating Information

“Arrows” or “dittos” are not allowed. Identical information listed more than once under the same heading should be repeated in each applicable box.

Blank Boxes

Show a single dash in each box, which has no entry.

Sheet Identification Code & Number	Sheet Titles
LD -1	LANDSCAPE DETAILS ** Use this title if a sprinkler schedule is only on this sheet. or Use this title when a sprinkler schedule and details are on this sheet. or Use this title when no Sprinkler Schedule is needed but there are details.
LD -2	LANDSCAPE DETAILS ** Use this title when more than one sheet is needed for additional detail.

**Refers to non-standard details.

Abbreviations

Abbreviation descriptions used on the Sprinkler Schedule are found in the Standard Plan H1. **Do not add periods to abbreviations used in filling out the Sprinkler Schedule.**

Note: Abbreviations used on the Sprinkler Schedule are listed on the Schedule. See *Standard Plan H5* on Page 6-11 (If you copy the Sprinkler Schedule cell (SPRSCH) from Caltrans CADD Cell Library, the abbreviations have already been included). At your option, these abbreviations may be deleted since they appear on the Standard Plan H1. The reason they may be included in both locations is to eliminate the need for the Contractor to look up the meaning of the abbreviations in the Standard Plans booklet.

Abbreviations used in the column headings of the Sprinkler Schedule are:

IPS iron pipe size

NPT national pipe thread.

Standard Notes

When standard notes are applicable, circle the note number and show the number circled in the appropriate column heading or box(es) of particular sprinkler(s) on the Sprinkler Schedule. *The note numbers must be shown circled in both places to make them applicable.* Additional numbered notes may be added following the standard notes.

<i>Applicable When Circled Below</i>	<i>Explanation</i>
1 See special provisions.	Standard Note 1 may be added to any column heading or line under a column heading when you want to direct the Contractor to the special provisions for specifics. Circle the number 1 here and show 1 circled in the appropriate location to make note applicable.
② If pressure compensating device is specified, the discharge and radii shown reflect its use.	Standard Note 2 is precircled and is shown in the column heading for PRESSURING COMPENSATING. Circle the number 2 here to make note applicable.
3 Arc stop for impacts shall be fitted with a nut and bolt.	Standard Note 3 Circle the number 3 here to require for impact sprinklers. This is a MUST have.
4 Vinyl-coated cast iron housing.	Circle Standard Note 4 here and show it circled on the appropriate line of the REMARKS column to require.
5 Required adjacent to shoulders, curbs, sidewalks and dikes.	Standard Note 5 may be added to the appropriate line in the RISER, SWING JOINT (TYPE) and/or REMARKS column to direct the Contractor. Circle the number 5 here and show 5 circled in the appropriate location to make note applicable.
6 Unless otherwise noted on plans.	Standard Note 6 use when required

NOTE: Add all notes which change requirements of the standard details for Risers, Swing Joints, or Sprinkler features here, i.e., Length of flexible hose on Riser Type V shall be a minimum length of 2’.

DO NOT ADD THESE KINDS OF NOTES WITH THE IRRIGATION NOTES.

Additional Notes

Additional notes may be added below the list of Standard Notes when necessary to facilitate specifying the equipment wanted. A few examples are:

- Non Adjustable Discharge Rate
- Factory Installed Internal Check Valve

Standard Sprinkler Symbols

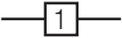
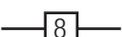
Show the appropriate standard sprinkler symbol being used on the Irrigation plan and on the Sprinkler Schedule. For non-standard sprinklers develop a new symbol.

The following standard sprinkler symbols are located in the Master Cell Library for your use.

The “Sprinkler Type” that goes along with the symbol is also a standard item. Sprinkler Type is the callout used on the Engineers Estimate as the “Item Cost Code Description”.

Sprinkler Type A*

These columns are for reference only.

Symbol	Type	Description	Spray Pattern	O/C Spacing	CADD Cell Name
	A-1	SIDE IMPACT	PART CIRCLE	35' – 40'	STA1P
	A-1	SIDE IMPACT	FULL CIRCLE	35' – 40'	STA1F
	A-2	SIDE IMPACT POP-UP	PART CIRCLE	35' – 40'	STA2P
	A-2	SIDE IMPACT POP-UP	FULL CIRCLE	35' – 40'	STA2F
	A-3	SIDE IMPACT	PART CIRCLE	45' – 50'	STA3P
	A-3	SIDE IMPACT	FULL CIRCLE	45' – 50'	STA3F
	A-4	SIDE IMPACT POP-UP	PART CIRCLE	45' – 50'	STA4P
	A-4	SIDE IMPACT POP-UP	FULL CIRCLE	45' – 50'	STA4F
	A-5	GEAR DRIVEN	PART CIRCLE	15' – 35'	STA5P
	A-5	GEAR DRIVEN	FULL CIRCLE	15' – 35'	STA5F
	A-6	GEAR DRIVEN POP-UP	PART CIRCLE	15' – 35'	STA6P
	A-6	GEAR DRIVEN POP-UP	FULL CIRCLE	15' – 35'	STA6F
	A-7	GEAR DRIVEN	PART CIRCLE	40' – 50'	STA7P
	A-7	GEAR DRIVEN	FULL CIRCLE	40' – 50'	STA7F
	A-8	GEAR DRIVEN POP-UP	PART CIRCLE	40' – 50'	STA8P
	A-8	GEAR DRIVEN POP-UP	FULL CIRCLE	40' – 50'	STA8F
	A-9	MINI IMPACT	PART CIRCLE	20' – 40'	STA9P
	A-9	MINI IMPACT	FULL CIRCLE	20' – 40'	STA9F
	A-10	MINI IMPACT POP-UP	PART CIRCLE	20' – 40'	STA10P
	A-10	MINI IMPACT POP-UP	FULL CIRCLE	20' – 40'	STA10F

* Specify pop-up height in the “Remarks” column.

Sprinkler Type B*

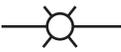
These columns are for reference only.

Symbol	Type	Description	Spray Pattern	Sprinkler Material	Remarks	O/C Spacing	CADD Cell Name
	B-2	SHRUB SPRAY	F/TQ/TT/H/T/Q	B/PL	POP-UP*	6' – 15'	STB2
	B-1	SHRUB SPRAY	F/TQ/TT/H/T/Q	B/PL	---	6' - 15'	STB1
	B-3	STRIP SPRAY	CST/EST/SST	B/PL	---	3' – 30'	STB3
	B-4	STRIP SPRAY	CST/EST/SST	B/PL	POP-UP*	3' – 30'	STB4
	B-5	STREAM SPRAY	F/H/T/Q	B/PL	---	8' – 25'	STB5
	B-6	STREAM SPRAY	F/H/T/Q	B/PL	POP-UP*	8' – 25'	STB6

* Specify pop-up and height in the “Remarks” column.

Sprinkler Type C*

These columns are for reference only.

Symbol	Type	Description	Spray Pattern	Sprinkler Material	Remarks	O/C Spacing	CADD Cell Name
	C-1	STREAM BUBBLER	F/H/Q/CT	B/PL	---	---	STC1
	C-2	FLOOD BUBBLER	---	B/PL	---	---	STC2
	C-3	SPRAY	TQ/H/T/Q	B/PL	---	---	STC3

* Symbol size may be reduced minimally to accommodate delineation when plant spacing and scale are such that symbols appear overcrowded, or place a symbol at each end of shrub rows.

Sprinkler Type D*

These columns are for reference only.

Symbol	Type	Description	Spray Pattern	Sprinkler Material	Remarks	O/C Spacing
	D-1	SINGLE OUTLET EMITTER	---	PL	---	---
	D-2	MULTI OUTLET EMITTER	---	PL	---	---
	D-3	EMITTER	---	PL	---	---

*The standard sprinkler Type D symbol does not indicate the quantity or location of emitters. The quantities are shown in the Valve Code (See Section 5 Valve Code, page 5-13).

Sprinkler Type E*

These columns are for reference only.

Symbol	Type	Description	Spray Pattern	Sprinkler Material	Remarks	O/C Spacing
	E-1	MICRO SPINNER	F	PL	---	15'
	E-2	MICRO IMPACT	F	PL	---	15'

*The standard sprinkler Type E symbol does not indicate the quantity or location of micro spinners or impacts. The quantities are shown in the Valve Code (See Section 5 Valve Code page 5-13). The location may be covered in the "Remarks" column of the Sprinkler Schedule, in a plan note, or in the standard special provisions.

Spray Pattern

Spray patterns should be selected from the standard patterns shown below.

Description	Abbreviation
full/part circle	F/P
full circle	F
part circle	P
three quarter circle	TQ
two thirds circle	TT
half circle	H
third circle	T
quarter circle	Q
center strip	CST
side strip	SST
end strip	EST

Operating Pressure

OPERATING PRESSURE
35
40

Indicate the operating pressure in pounds per square inch.

The operating pressure and other related performance specifications, (i.e., gallons per minute, gallons per hour, radius and width X length) should reflect the manufacturer's catalog specification, not necessarily the field performance of the sprinkler.

EXAMPLE:

SPRAY PATTERN	When more than one type of spray pattern for Type B or C sprinklers is required, fill box as follows:
F	Use a separate line for each spray pattern.
H	OR
	Use the same line for two spray patterns by drawing a diagonal line through the box to create two spaces. If this option is used you must use the same technique in the discharge column.

Pressure Compensating

PRESSURE COMPENSATING	<p>Indicate if a sprinkler is pressure compensating. Use a single dash if it is not. If the pressure compensating device is not part of the sprinkler components then specify for a separate one in the special provisions. Add the Standard Note 1, circled, to this column heading to direct the Contractor to the special provisions.</p> <p>Be sure to indicate if the sprinkler is pressure compensating or not. Some manufactures offer non pressure compensating sprinklers, which may meet all the same specifications you have specified, except for pressure compensation. If pressure compensating is important be sure to place an X in each box for each sprinkler specified that will require this feature.</p>
X	Show an X in each box of this column for each sprinkler requiring this feature.
—	Show a dash when this feature is not desired.

Plus/Minus 5% ②

This column heading appears over the discharge and radius columns. It is intended to let the Contractor obtain a sprinkler that meets the discharge and radius requirements within 5% of what is shown. This is done to make sure we are not specifying sprinklers so specific that it ties the sprinkler to one manufacture and prevents sole sourcing.

Applicable When Circled Below	Explanation
1 See special provisions.	<p>Standard Note 2 is precircled and is shown in the PLUS / MINUS 5% column heading. Circle the number 2 here to make note applicable.</p>
② If pressure compensating device is specified, the discharge and radii shown reflect its use.	
3 Arc stop for impacts shall be fitted with a nut and bolt.	
4 Vinyl-coated cast iron housing.	
5 Required adjacent to shoulders, curbs, sidewalks and dikes.	
6 Unless otherwise noted on plans.	

Standard Notes (Shown above)— When standard notes are applicable, circle the note number and show the number circled in the appropriate box on the Sprinkler Schedule. **The note numbers must be shown circled in both places to make them applicable.** Additional numbered notes may be added following the standard notes.

Discharge

The discharge rate, (i.e., gallons per second, gallons per hour, radius and width X length) should reflect the manufacturer’s catalog specification, not necessarily the field performance of the sprinkler.

EXAMPLE:

PLUS / MINUS 5% (2)

Note: The discharge column is under the “Plus/Minus 5%” column heading which allows the discharge rate to be 5% under or above what is specified.

DISCHARGE

GALLONS PER MINUTE GPM/Min	GALLONS PER HOUR GPH/Min
0.25	—
0.5	—
14	
7	

DISCHARGE FOR SPRINKLER TYPE A, B and C

Gallons Per Minute (GPM) - Indicate the discharge in gallons per minute.

OR

DISCHARGE FOR SPRINKLER TYPE D and E

Gallons Per Hour (GPH) - Indicate the discharge in gallons per hour.

Use only one discharge rate per sprinkler type and show a single dash in the remaining discharge box.

When more than one spray pattern for Type B or C sprinklers is shown on one line as described under “**Spray Pattern**” on page 6-6, draw a diagonal line through the discharge box to create two spaces for showing the appropriate discharge rates.

Radius, Width & Length

PLUS / MINUS 5% (2)

Note: The “radius and width & length” column is under the “Plus/Minus 5%” column heading which allows a 5% change under or above what is specified.

RADIUS (FEET)	RADIUS WIDTH X LENGTH (FEET)
50	—
—	10x30

Indicate the radius in feet for standard sprinklers.

Indicate the width and length of coverage (in feet) for Type B strip spray sprinklers, i.e., Center Strip, End Strip or Side Strip.

Material

MATERIAL	Indicate the sprinkler material. The standard abbreviations most often used for completing this column are shown below:	
	Description	Abbreviation
	brass/bronze	B/B
	brass/bronze/plastic	B/B/PL
B/B	brass/plastic	B/PL
	plastic	PL

Inlet Connection

INLET CONNECTION (NPT)	Show the National Pipe Thread (NPT) size expressed in inches, i.e., 1/2", 3/4" or 1". It is not necessary to indicate male or female threads.
	Delete DN as this is only used when using Metric.
20	

Positive-Locking Adjustable Arc

③ POSITIVE-LOCKING ADJUSTABLE ARC	Note 3 require the arc stop to be fitted with a nut and bolt. This feature is required for impact sprinklers because after time the arc stops get out of adjustment easily and may end up spraying water into a traffic lane. When this feature is desired, add a circled number 3 here and circle the number 3 in the standard notes below the schedule to make the note applicable.
	AND
X	Show an X in each box of this column for each sprinkle requiring this feature. In addition, add a circled note 5 in the remarks column and circle note 5 in the standard notes in the schedule. This will let the Contractor know that an Adjustable Arc is required on sprinklers placed along shoulders, dikes, curbs or sidewalks.
—	Show a dash if this feature is not required.

Backsplash Preventer

BACKSPLASH PREVENTER	This feature should be used for part circle impact sprinklers placed along shoulders, dikes, curbs or sidewalks - circle note 5 and add a circled note 5 in the remarks column.
	X Show an X in each box for each impact sprinkler listed requiring this feature.
	— Show a dash if this feature is not required.

Diffuser Pin

DIFFUSER PIN	This feature is used on impacts and some gear driven and rotor sprinklers to adjust the radius.
	X Show an X in each box for each type of sprinkler requiring this feature.
	— Show a dash if this feature is not required.

Distance Control Flap

DISTANCE CONTROL FLAP	This feature is used to adjust the radius and is used in conjunction with the diffuser pin on some impact sprinklers. Over time, the distance control flap can become loose and useless.
	X Show an X in each box for each type of impact sprinkler requiring this feature.
	— Show a dash if this feature is not required.

Adjustable Discharge

ADJUSTABLE DISCHARGE	
	X Show an X in each box for each type of sprinkler requiring this feature.
	— Show a dash if this feature is not required.

Riser Type

Indicate the riser detail, i.e., I, II, III, IV, V or VI.

Guidelines for Selection of Appropriate Riser Types

(See [Standard Plan H5](#) on page 6-11 for details)

Riser Type I

Use on Sprinkler Type B (full circle) and (half circle) heads which are less likely to get broken but may suffer damage from dragging spray hoses, weed whackers and other maintenance activities. It is recommended to specify GSP riser material to ensure the coupling is the weak point in the riser.

Riser Type II

Use on Sprinkler Types A and B where heads are not located in an area subject to disturbance by vehicles or pedestrians, i.e., immediately adjacent to walls. For impact sprinklers add “riser support” detail, shown on [Standard Plan H6](#) on page 6-13.

Riser Type III

This is a flexible riser used with Sprinkler Types A and B installed where risers have a moderate potential to get broken. Riser material is specified in SSP 20-800 “Sprinklers”.

Riser Type IV

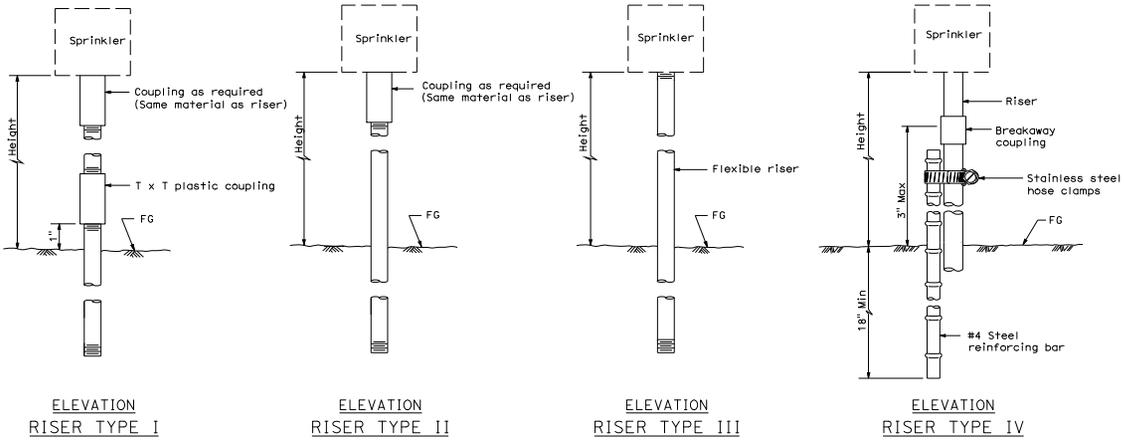
Use on Sprinkler Types A and B installed where risers are likely to get broken, i.e., adjacent to shoulders where vehicles may run over them or in pedestrian areas where pop-up sprinklers are not practical. Riser type IV is intended to be used with a standard PVC coupling or a device that breaks upon impact and automatically stops the flow of water depending on the circumstances. Riser material should be GSP. If an “automatic flow shut off device” is used specify the desired device in SSP 20-800. ***Do not callout for a riser support when using Riser Type IV as it comes with the support. Show a dash in the riser support column.***

Riser Type V

Use on Sprinkler Type C – Flood Bubblers placed in plant basins. **No swing joint is specified when this riser is used.**

Riser Type VI

Use on Sprinklers Types A and B Pop-ups with bottom or side inlet. **No swing joint is specified when this riser is used.** Or use only a Swing Joint Type I and leave the riser columns blank. Always use sprinkler protectors for sprinklers adjacent to shoulders, dikes, curbs, and sidewalks.



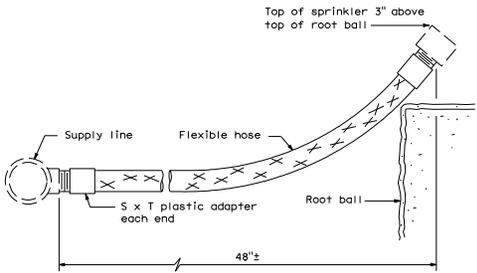
ELEVATION
RISER TYPE I

ELEVATION
RISER TYPE II

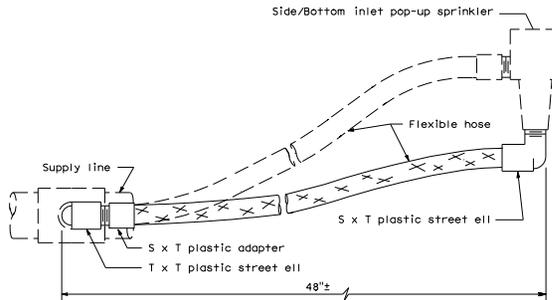
ELEVATION
RISER TYPE III

ELEVATION
RISER TYPE IV

205



ELEVATION
RISER TYPE V



ELEVATION
RISER TYPE VI

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NO SCALE

H5

97-12-95

Riser					
Type	Material		Size (IPS Inch)	Height (Inch)	Flow Shutoff Device
	Plastic	Galvanized			
I	—	X	1/2"	18"	X

Type

See Page [6-10](#).

Material

Show an X to indicate whether the riser is **plastic** or **galvanized** pipe. Use galvanized pipe for all above ground risers with impact sprinklers. Show a single dash in the material box not used.

Size

Indicate the riser pipe size in inches. Standard sizes for risers are 1/2", 3/4", and 1".

Height

Indicate the height of the riser above the finished grade in inches. See [Standard Plan H5](#) on page 6-11, which illustrates what is considered the riser height.

Flow Shutoff Device

Show an X in each box to indicate as a required feature. If the flow shutoff device is required, show an X in the

appropriate box(es). Add a circle Standard Note number ⑤ in the column heading or in the "Remarks" column if the device is only required at certain locations, i.e., required adjacent to shoulders, curbs, sidewalks and dikes. Be sure to circle a standard note or a new note you're adding below the schedule to make the note applicable.

Use a single dash when not required.

Swing Joint

SWING JOINT	See Standard Plan H6 on page 6-13, for details. Also circle Standard Note 5 "Required adjacent to shoulders, curbs, sidewalks and dikes." Include the number circled in the same box or in the "Remarks" column if the note is required.
-------------	--

II	Indicate the swing joint detail, i.e., I, II or III.
----	--

—	Show a single dash if this feature is not desired.
---	--

Riser Support

RISER SUPPORT	This riser support is used when a riser is a substantial height above ground.
---------------	---

X	Do not use with Riser Type IV.
---	--------------------------------

—	Show an X to denote requirement (See Standard Plan H6 on page 6-13, for detail).
---	--

—	Show a single dash if this feature is not desired.
---	--

Guidelines for Selection of Appropriate Swing Joint Types*

(See [Standard Plan H6](#) on page 6-13 for details)

Swing Joint Type I

Use adjacent to shoulders, dikes, curbs and sidewalks. **May use for pop-up sprinklers instead of Riser Type VI.** Show riser size but use a dash for riser height when used for pop-ups

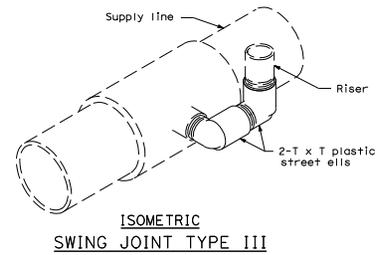
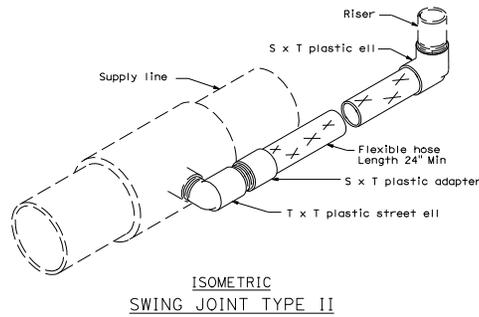
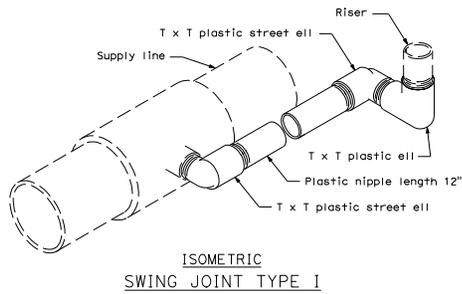
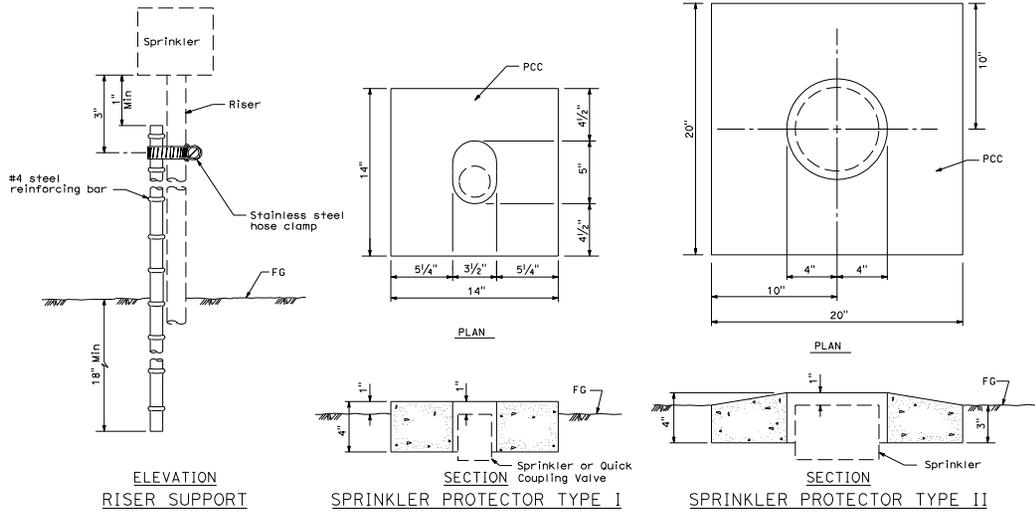
Swing Joint Type II

Use adjacent to shoulders, dikes, curbs and sidewalks.

Swing Joint Type III

Use on slopes. Allows for adjusting risers (for sprinklers on slopes) perpendicular to the plane of the slope.

* If Riser Type VI is used do not add a **Swing Joint**.



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DETAILS**
NO SCALE

H6

Sprinkler Protector

SPRINKLER PROTECTOR	Sprinkler protectors are used for pop-up sprinklers and Quick Coupler Valves adjacent to curbs, dikes and shoulders where sprinklers or quick couplers are likely to be driven over.
I	Indicate the Sprinkler Protector detail, i.e., TYPE I or TYPE II see Standard Plan H6 on page 6-13, for details.
—	Show a single dash if this feature is not desired.

Remarks

REMARKS	Additional remarks and/or use of standard circled note numbers may be added as required.
12" POP-UP	Specify the height of pop-up sprinklers in inches, i.e.: 12" POP-UP.

Common Errors

Common errors in filling out the Sprinkler Schedule:

- Not remembering to circle the note number of a note under “Applicable When Circled Below” to make the note applicable.
- Showing a note circled under “Applicable When Circled Below” but not showing the note number in the schedule.

Remember that circled note numbers shown on the schedule but not circled under “Applicable When Circled Below” is OK; it will not be applicable to the project.

- Using a swing joint for pop-up sprinklers is not necessary. Use Riser Type VI only for pop-up sprinklers and show a dash in the Swing Joint Column ([See page 6-10 and 6-11](#)).
- Do not add notes on the plans that are repeating information already shown on the Sprinkler Schedule.
- Do not use a note to callout a need for a sprinkler protector. Use the sprinkler protector column and show the specific sprinkler type needed from the Standard Plan H6 ([See page 6-13](#)).
- Do not add Pressure Compensating in the Remarks column. Place an X in the Pressure Compensating Column ([See page 6-7](#)).

Sprinkler Schedule Check List

- “LANDSCAPE DETAILS” (sheet title) and “LD _” for Highway Planting projects or Highway Construction projects (sheet identification code) in lower right corner.
- SPRINKLER SCHEDULE is completed as per instructions in this manual.
- Sprinkler symbols on Sprinkler Schedule correspond with sprinkler symbols on Irrigation Plans.
- Numbered notes shown in appropriate columns are circled in APPLICABLE WHEN CIRCLED notes list.
- Abbreviations conform to ABBREVIATIONS list and/or Standard Plan H1.
- Use Standard Special Provision “StdPln” to indicate that Standard Plan H5 shall be used when riser types are shown.
- Use standard special provision “StdPln” to indicate that Standard Plan H6 shall be used when Swing Joints, Riser Supports and/or Sprinkler Protectors are shown.