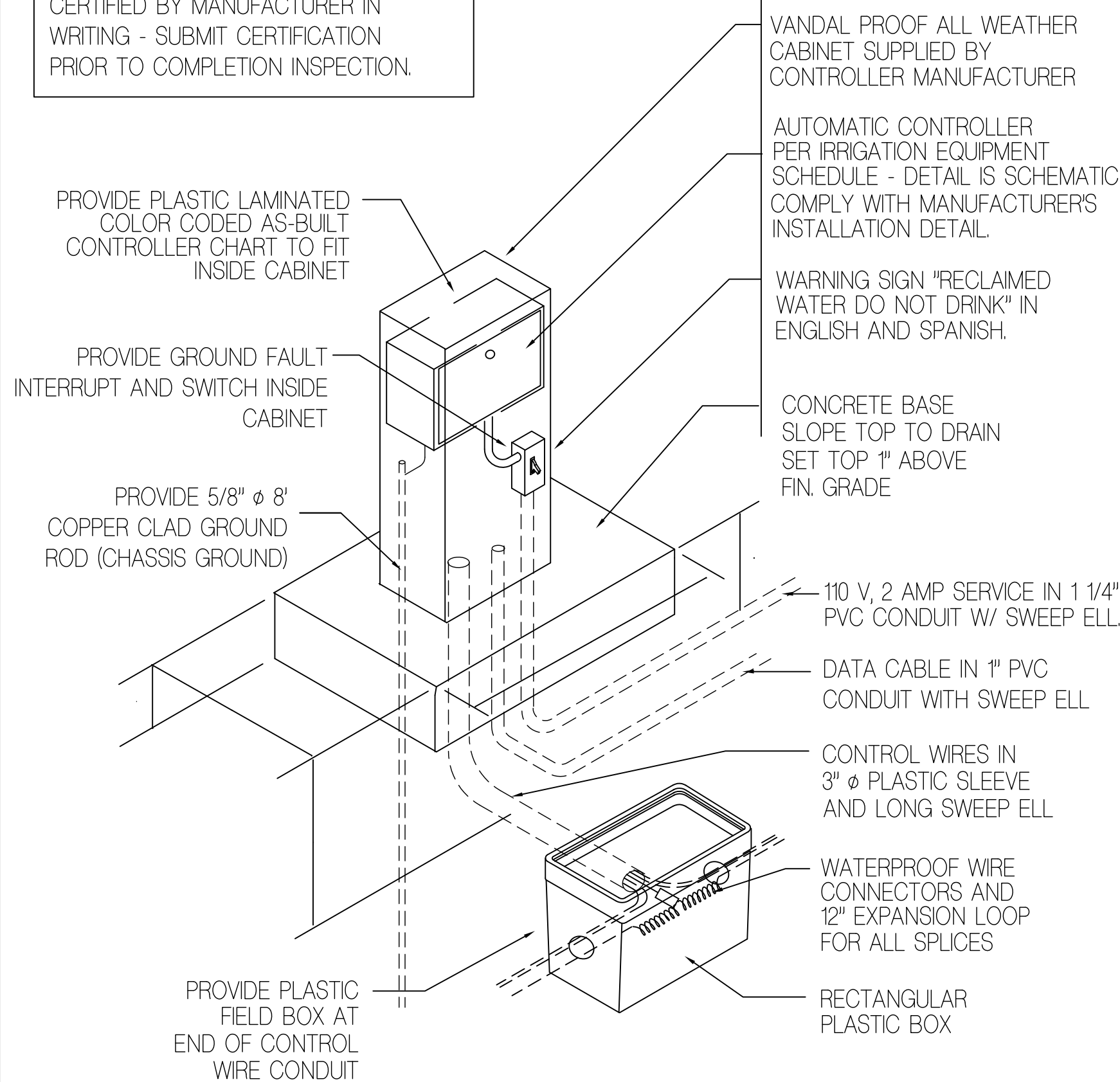
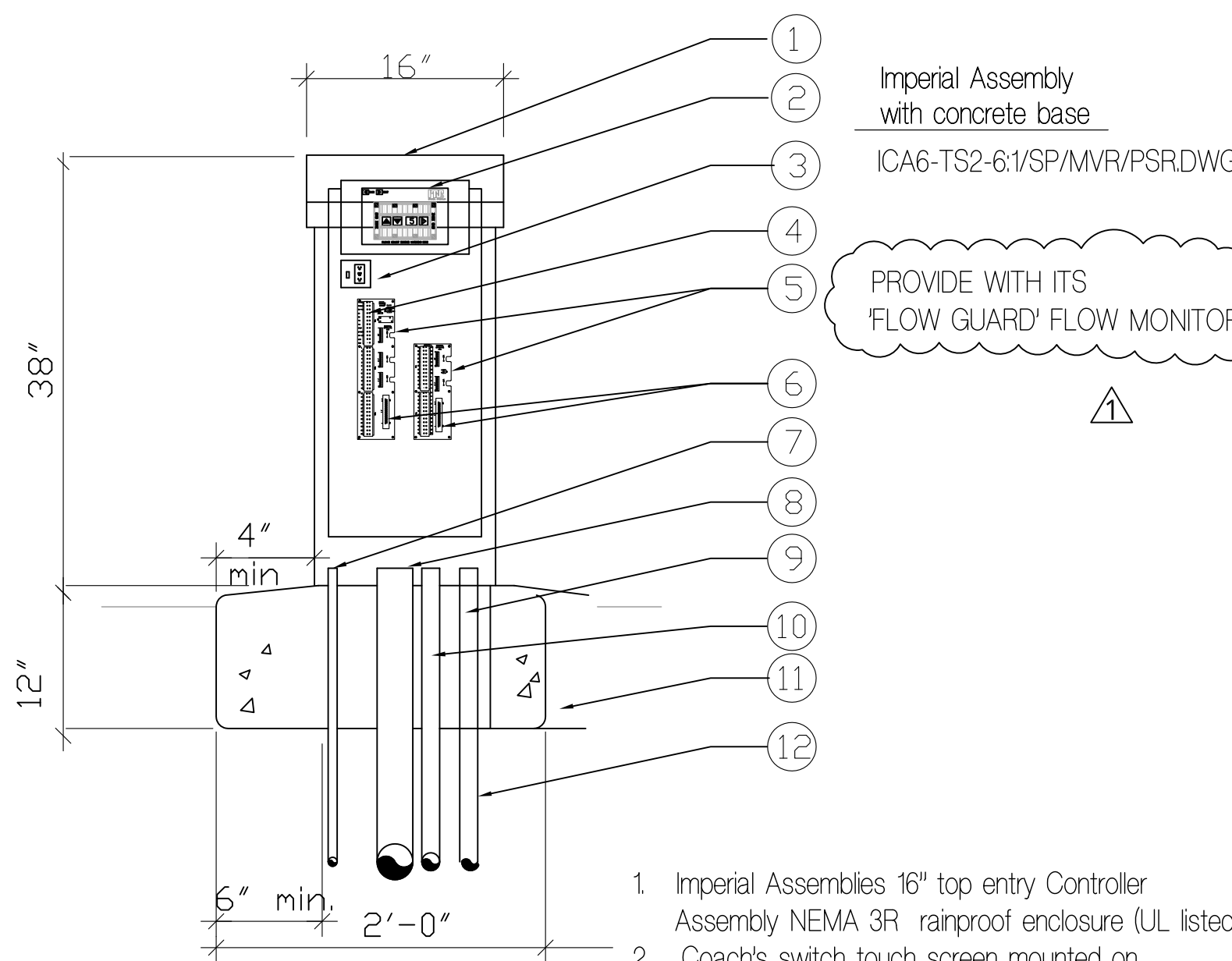


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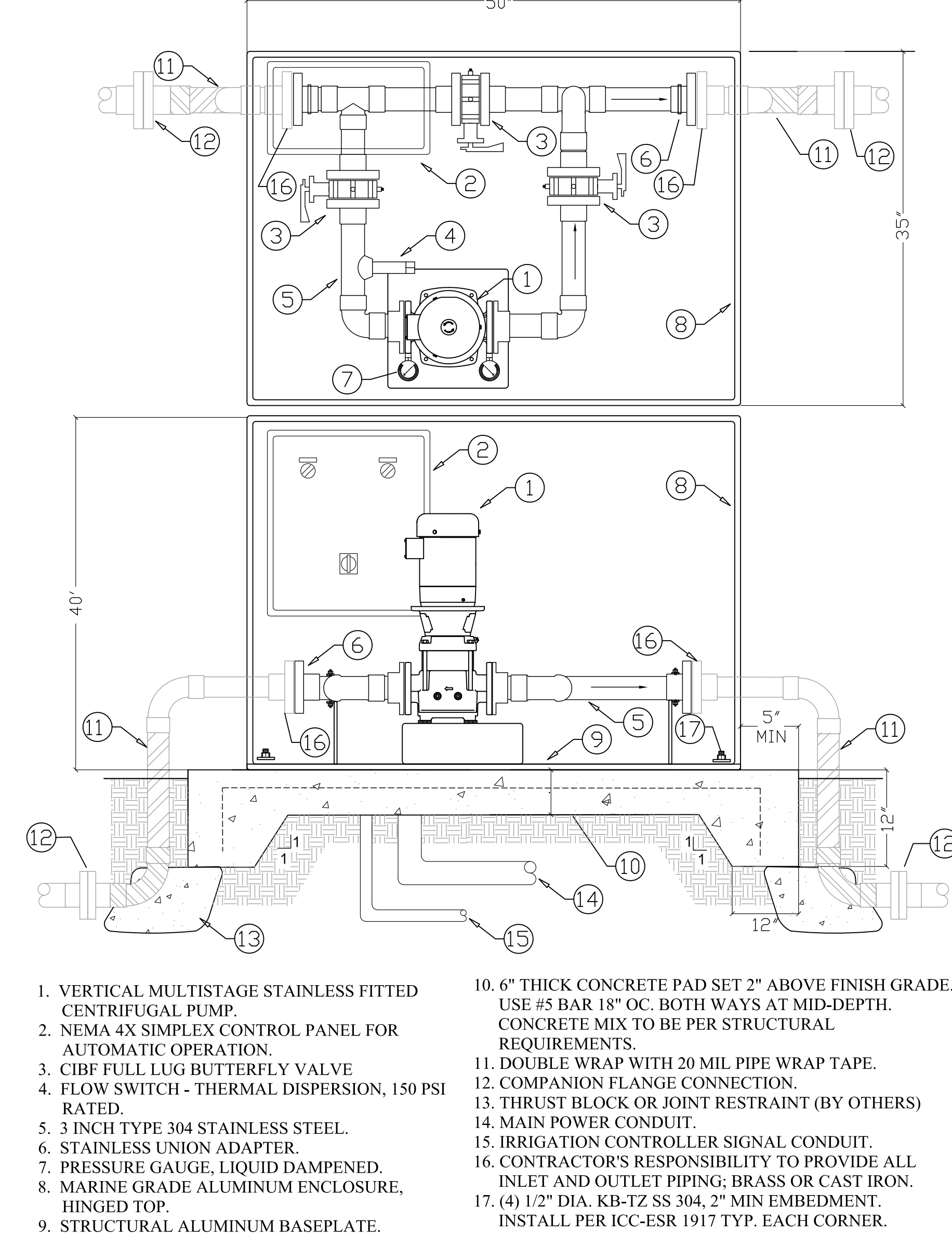
NOTE:
CONTROLLER INSTALLATION MUST BE
CERTIFIED BY MANUFACTURER IN
WRITING - SUBMIT CERTIFICATION
PRIOR TO COMPLETION INSPECTION.



IRRIGATION CONTROLLER



COACHE'S SWITCH



COOL-DOWN PUMP

BARRETT ENGINEERED PUMPS

JOINT RESTRAINT CRITERIA DISTANCE CHART

- ALL TEES, BENDS, REDUCERS AND END CAPS SHALL BE RESTRAINED USING LH SERIES. ADDITIONAL JOINTS SHALL BE RESTRAINED AS SET OUT IN TABLE BELOW. TABLE LISTS THE MINIMUM LENGTH (IN FEET) FOR EACH SIZE AND TYPE OF FITTING WITHIN WHICH ALL ADJACENT JOINTS MUST BE RESTRAINED.
- FOR EXAMPLE, 3-INCH MAINLINE TO BE INSTALLED WITH A DIRECTIONAL CHANGE OF 90 DEGREES, CHART UNDER PIPE SIZE 3" AND UNDER BENDS 90 INDICATES A DISTANCE OF 26 FEET. IF ANY JOINTS INCLUDING BELLS, VALVES, ETC) OCCUR WITHIN 26 FEET OF THE DIRECTIONAL CHANGE, THEY MUST BE RESTRAINED.
- ALL FITTINGS AND JOINT RESTRAINTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.

MINIMUM RESTRAINED LENGTH IN FEET

PIPE SIZE	BENDS				TEE BRANCH	REDUCERS			DEAD END	GATE VALVE
	11	22	45	90		1 STEP	2 STEP	3 STEP		
2"	1'	2'	7'	22'	22'	-	-	-	47'	33'
2-1/2"	1'	4'	8'	24'	24'	22'	-	-	58'	35'
3"	3'	5'	11'	26'	26'	25'	-	-	82'	41'
4"	4'	6'	13'	31'	31'	31'	70'	-	97'	50'
6"	5'	8'	19'	45'	45'	70'	91'	96'	136'	68'

Chart based on 180psi line pressure,
24" cover, stty soil and safety factor
of 2

1 STEP REDUCTION IS ONE PIPE SIZE DOWN (IE. 8x6)
2 STEP REDUCTION IS TWO PIPE SIZES DOWN (IE. 8x4)
3 STEP REDUCTION IS THREE PIPE SIZES DOWN (IE. 8x3)

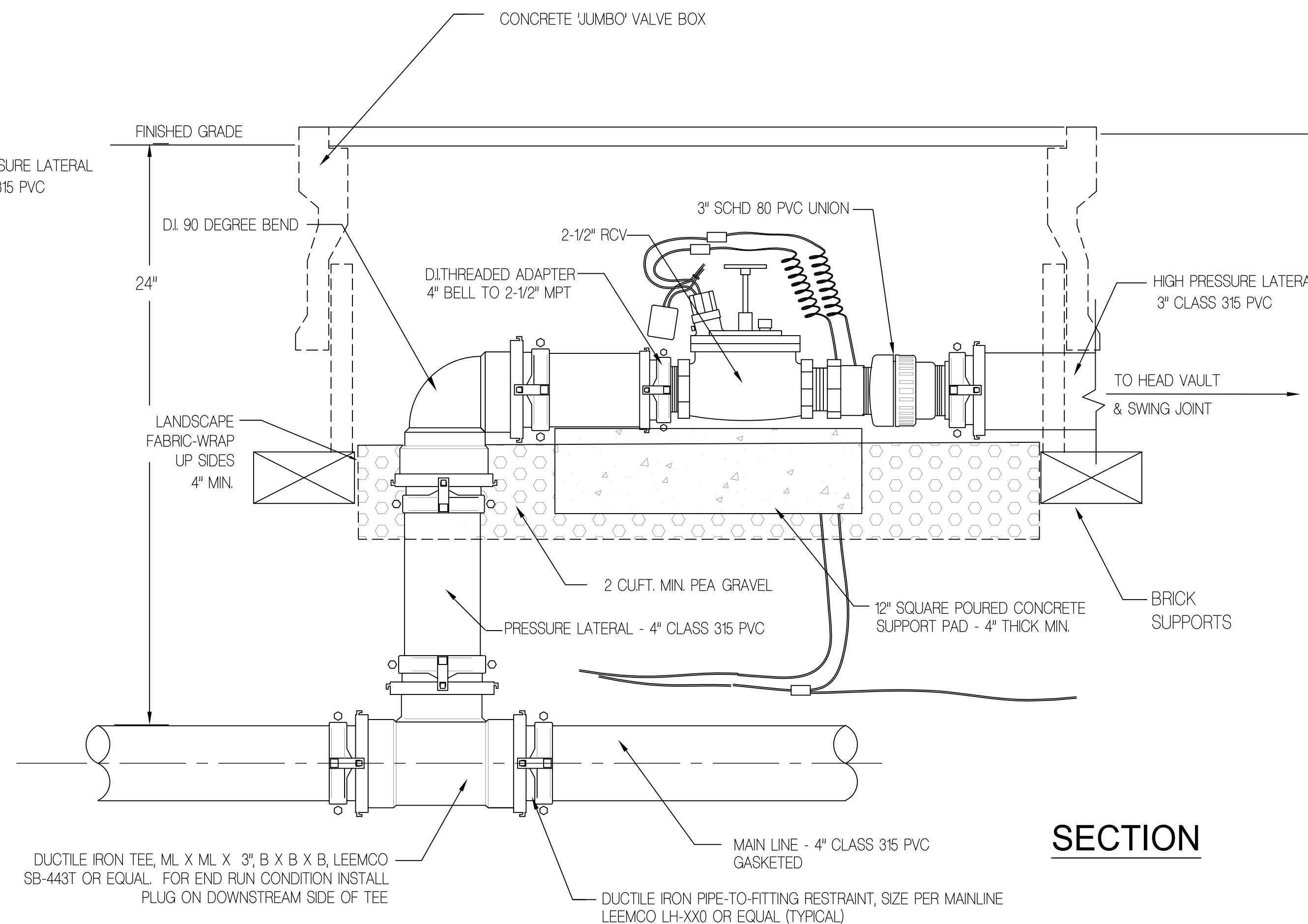
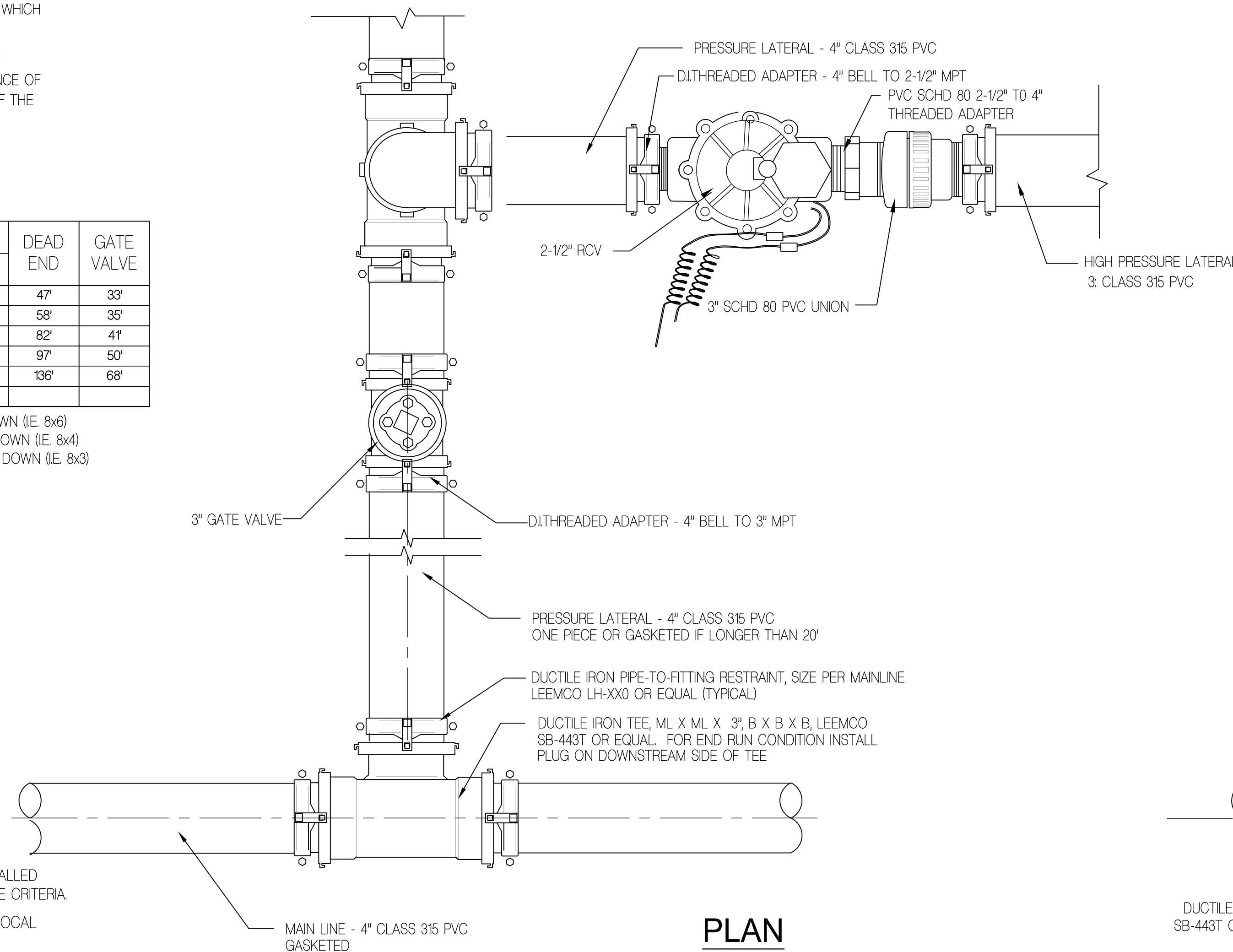
INSTALLATION CHART

- REFER TO THE FOLLOWING TABLE WHICH LISTS THE NUMBER OF BOLTS, SIZE AND TORQUE FOR EACH BOLT IN REFERENCE TO THE SIZE OF PIPE WHICH IS BEING RESTRAINED.
- FOR EXAMPLE, 3-INCH PIPE, USE (2) 3/8" x 2-1/2" BOLTS FOR EACH RESTRAINT AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT.-LBS.

PIPE SIZE	NO. BOLTS	BOLT SIZE	TORQUE FT.-LBS
2"	2	3/8" x 2-1/2"	20
2-1/2"	2	3/8" x 2-1/2"	20
3"	2	3/8" x 2-1/2"	20
4"	2	1/2" x 3"	48
6"	2	1/2" x 3"	48

NOTES:

- ALL MAINLINES FOR SYNTHETIC TURF COOL-DOWN SYSTEMS SHALL BE INSTALLED WITH DUCTILE IRON FITTINGS AND JOINT RESTRAINTS FOLLOWING THE ABOVE CRITERIA
- CONDUCT A PRE-CONSTRUCTION MEETING WITH THE MANUFACTURERS LOCAL REP TO REVIEW INSTALLATION AND LAYOUT REQUIREMENTS.
- CHARTS BASED ON LEEMCO FITTINGS. FOLLOW REQUIREMENTS OF SPECIFIC MANUFACTURER.



HIGH PRESSURE MAIN LINE W/ DUCTILE IRON JOINTS

REVISIONS

1 ADDENDUM 1 02/01/2022

THIS APPROVAL IS FOR ITEMS WITHIN CLOUDED
AREAS ONLY. FOR OTHER INFORMATION NOT
CONTAINED WITHIN CLOUDED AREAS, REFER TO
ORIGINAL DSA APPROVED PLANS.

DO NOT USE THESE PLANS AS SUBSTITUTE
FOR THE ORIGINAL DSA APPROVED PLANS

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NORWALK LA MIRADA UNIFIED SCHOOL DISTRICT
**LA MIRADA HIGH SCHOOL NEW FOOTBALL
STADIUM PROJECT**
13520 ADELEA DRIVE, LA MIRADA, CA 90638

DSA # 03-120551

NAC NO. 161-19015
DATE 02/01/2022

DSA BACKCHECK
SUBMISSION

FIELD COOLING
AND IRRIGATION
UPGRADE DETAILS

TF 2.33