GENERAL LANDSCAPE REQUIREMENTS

1. DIAMETERS OF PLANT MATERIALS AS DRAWN ARE REPRESENTATIVE OF PLANTS AT OR NEAR MATURITY RATHER THAN AT INITIAL PLANTING. THE TREES AND SHRUBS THAT ARE PLANTED SHALL BE OF THE SPECIES AND SIZE SPECIFIED ON THE APPROVED PLANS UNLESS A WRITTEN REQUEST FOR THE SUBSTITUTIONS HAVE BEEN SUBMITTED AND APPROVED BY THE CITY PRIOR TO PLANTING.

2. THE PLANT LIST IS INTENDED AS A GUIDE FOR THE LANDSCAPE CONTRACTOR. IN THE EVENT OF A DISCREPANCY BETWEEN THE NUMBER OF PLANT ON THE PLANT LIST AND ON THE DRAWING, THE GREATER NUMBER SHALL APPLY.

3. LANDSCAPE CONTRACTOR SHALL COORDINATE INSTALLATION SEQUENCE WITH THE IRRIGATION CONTRACTOR.

4. ADJUSTMENTS IN LOCATIONS OF PLANT MATERIALS MAY BE NECESSARY DUE TO NEW OR EXISTING UTILITIES OR SITE OBSTRUCTIONS. ADVISE PROJECT MANAGER BEFORE ADJUSTMENTS ARE MADE.

5. TREES AND SHRUBS SHALL BE NURSERY GROWN UNLESS OTHERWISE APPROVED AND BE HEALTHY AND VIGOROUS PLANTS, FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN SCALD, INJURIES, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT PEST EGGS, BORERS AND ALL FORMS OF INFESTATIONS OF OBJECTIONABLE DISFIGUREMENTS AS DETERMINED BY THE CITY ARBORIST. PLANTS SHALL BE IN ACCORDANCE WITH THE CURRENT AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARDS AND CONFORM IN GENERAL TO REPRESENTATIVE SPECIES.

6. BALLED AND BURLAPPED TREES AND SHRUBS SHOULD BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF ADEQUATE SIZE AS SPECIFIED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, "AMERICAN STANDARD FOR NURSERY STOCK" WITH THE BALLS SECURELY WRAPPED.

7. ALL SHRUBS OCCURRING IN A CONTINUOUS ROW OR FORMAL ARRANGEMENT SHALL HAVE UNIFORM HEIGHT, SPREAD AND HABIT OF GROWTH. FOR PERENNIAL LOCATIONS, FILL AREA WITH QUANTITY OF PLANTS DESIGNATED; EVENLY SPACED

8. A MINIMUM OF 8" DEPTH OF NEW TOPSOIL SHALL BE PLACED IN ALL BED AREA BY THE LANDSCAPE CONTRACTOR PRIOR TO PLANT INSTALLATION. BACKFILL ALL SHRUBS & TREES WITH ONE PART COMPOST TO THREE PARTS TOPSOIL.

9. MULCH TREES AND SHRUBS WITH A MIN. 3" DEPTH OF "BLACK GOLD", OR APPROVED EQUAL, BLACK DYED SHREDDED HARDWOOD MULCH. MULCH PERENNIALS WITH 2" DEPTH. MULCH SHALL EXTEND IN A CONTINUOUS LAYER WITH THE PLANTING BEDS FROM FACE TO FACE OF SITE STRUCTURE - WLAKS, CURBS, BUILDING OR OTHER PLANT BED LIMITS.

10. ALL BED EDGES SHALL BE SPADE-CUT AND CLOSELY ALIGN AS POSSIBLE WITH THE EDGES AS SHOWN ON THE DRAWING. KEEP MULCH A MIN. OF ½" BELOW ADJACENT PAVED SURFACES.

11. SOD ALL LAWN DISTURBED AREAS WITHIN THE PROJECT LIMITS AS NOTE ON THE CIVIL DRAWINGS; INCLUDING OUT TO PAVEMENT EDGES. REFER TO CIVIL DRAWINGS AND VERIFY EXTENT OF SOD WITH THE PROJECT MANAGER.

12. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE-YEAR FORM DATE OF ACCEPTANCE. PRIOR TO THE END OF THE WARRANTY PERIOD THE LANDSCAPE CONTRACTOR SHALL REPLACE ALL TREES, SHRUBS OR OTHER PLANTINGS NOT ALIVE OR IN A HEALTHY GROWING CONDITION.

MAINTENANCE OF LANDSCAPING: THE OWNER OR PROPERTY MANAGER SHALL:
1. MAINTAIN ALL REQUIRED LANDSCAPING BY KEEPING LAWNS MOWED, ALL PLANTS MAINTAINED AS DISEASE-FREE, AND PLANTING BEDS GROOMED (EXCEPT IN AREAS OF PRESERVED EXISTING NATURAL VEGETATION (I.E., THICKETS); AND,
2. REPLACE ANY REQUIRED PLANTING, WHICH IS REMOVED OR DIES AFTER THE DATE OF PLANTING. SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT PLANTING SEASON. FOR THE PURPOSE OF THIS ARTICLE 4.7, H., PLANTING SEASONS END ON MAY 15TH AND SEPTEMBER 30TH OF EACH YEAR.

PLANT MATERIALS LIST This Sheet Only

KEY	QTY.	PLANT NAME	MINIMUM INSTALLED SIZE	SPACING
		OVERSTORY TREES		
AR	4	RED MAPLE - Acer rubrum 'October Glory'	2-1/2" cal., B/B	AS SHOWN
AS	5	FLAX MILL MAPLE - Acer saccharum 'Flax Mill Majesty'	2-1/2" cal., B/B	AS SHOWN
PA	3	LONDON PLANETREE - Platanus x acerifolia	2-1/2" cal., B/B	AS SHOWN
LS	3	SWEET GUM - Liquidambar styraciflua	2-1/2" cal., B/B	AS SHOWN
		UNDERSTORY TREES		
AL	3	SERVICEBERRY - Amelancher laevis	1-1/2" cal., B/B Single-stem	AS SHOWN
		SHRUBS		
JS	61	SEAGREEN JUNIPER - Juniperus chinensis 'Seagreen'	24" ht. B/B or cont.	3' OC
TO	27	RHEINGOLD ARBORVITAE -Thuja occidentalis 'Rheingold'	24" ht. B/B or cont.	3' OC
JB	12	TAM JUNIPER - Juniperus sabina 'Tamariscifolia'	#3 cont.	AS SHOWN

PLANT KEY

JB	PLANT SPECIES ABBREVIATION
17	NUMBER OF PLANTS
PY	LANDSCAPE REQUIREMENT

LANDSCAPE CODE CALCULATIONS:

BOTH SHEETS

FOR BUFFERYARDS: LEVEL 1 = ONE PLANT UNIT per 100 LF REQUIRED

P/Y SHADY LANE 286.29 LF/100 = 2.86 UNITS REQUIRED
ONE OVERSTORY TREE = 0.75 UNITS 2.86 / 0.75 = 3.81 or 4 OVERSTORY TREES REQUIRED 4 OVERSTORY TREES AS SHOW

P/Y US 40 EAST 262.26 LF/100 = 2.62 UNITS REQUIRED
ONE OVERSTORY TREE = 0.75 UNITS 2.62 / 0.75 = 3.39 or 4 OVERSTORY TREES REQUIRED 4 OVERSTORY TREES AS SHOWN

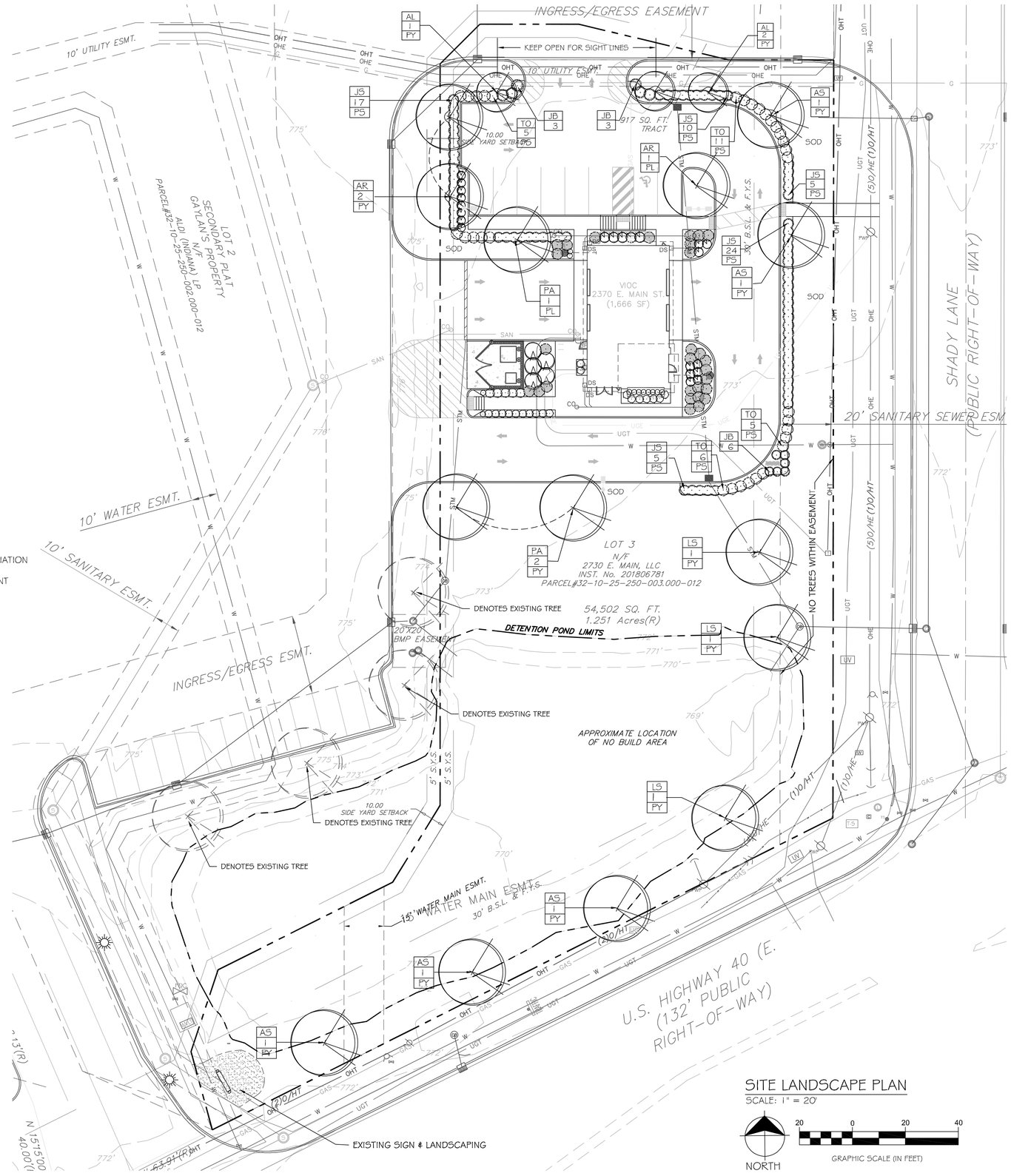
P/Y NORTH PROPERTY LINES 156.43 LF/100 = 1.56 UNITS REQUIRED
ONE UNDERSTORY TREE = 0.50 UNITS 1.56 / 0.5 = 3.12 or 3 UNDERSTORY TREES REQUIRED 3 UNDERSTORY TREES AS SHOWN
DUE TO OVERHEAD LINES & VEHICLE SIGHT LINES

P/Y WEST PROPERTY LINES 451.17 LF / 100 = 4.51 UNITS REQUIRED
ONE OVERSTORY TREE = 0.75 UNITS 4.51 / 0.75 = 6.05 or 6 OVERSTORY TREES REQUIRED 3 PROPOSED OVERSTORY TREES AS SHOWN
4 EXISTING TREES AS SHOWN
7 OVERSTORY TREES AS SHOWN

P/L PARKING: ONE TREE PER 15 SPACE REQUIRED
8 SPACES = 1 OVERSTORY TREE REQUIRED 2 OVERSTORY TREES AS SHOWN
P/S CONTINUOUS SCREENING HEDGE WITH PLANTS AT 3' OC MEETS REQUIREMENT AS SHOWN

F BUILDING FOUNDATION: 1 PLANT UNIT/100 LF OF BUILDING PERIMETER BUILDING PERIMETER 174 LF/ 100= 1.74 UNITS REQUIRED
ONE 36" HIGH SHRUB = 0.1 UNITS ONE 24" HIGH SHRUB = 0.05 UNITS ONE 18" HIGH SHRUB = 0.025 UNITS

AS SHOWN: 2.8 UNITS
6 36" HIGH SHRUB = 0.6
35 24" HIGH SHRUB = 1.75
18 18" HIGH SHRUB = 0.45



SITE LANDSCAPE PLAN

SCALE: 1" = 20'

NORTH

20 0 20 40

GRAPHIC SCALE (IN FEET)

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No.	Revisions/Submissions	Date
	DRC COMMENTS	07.11.19
	DRC SUBMITTAL	05.27.19
	PERMIT SET	05.24.19
	OWNER REVIEW	05.02.19

Valvoline Instant Oil Change

VALVOLINE INSTANT OIL CHANGE
2370 EAST MAIN STREET
PLAINFIELD, IN 46168

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ROGER E. BEAL REGISTERED NO. 20600100 STATE OF INDIANA LANDSCAPE ARCHITECT

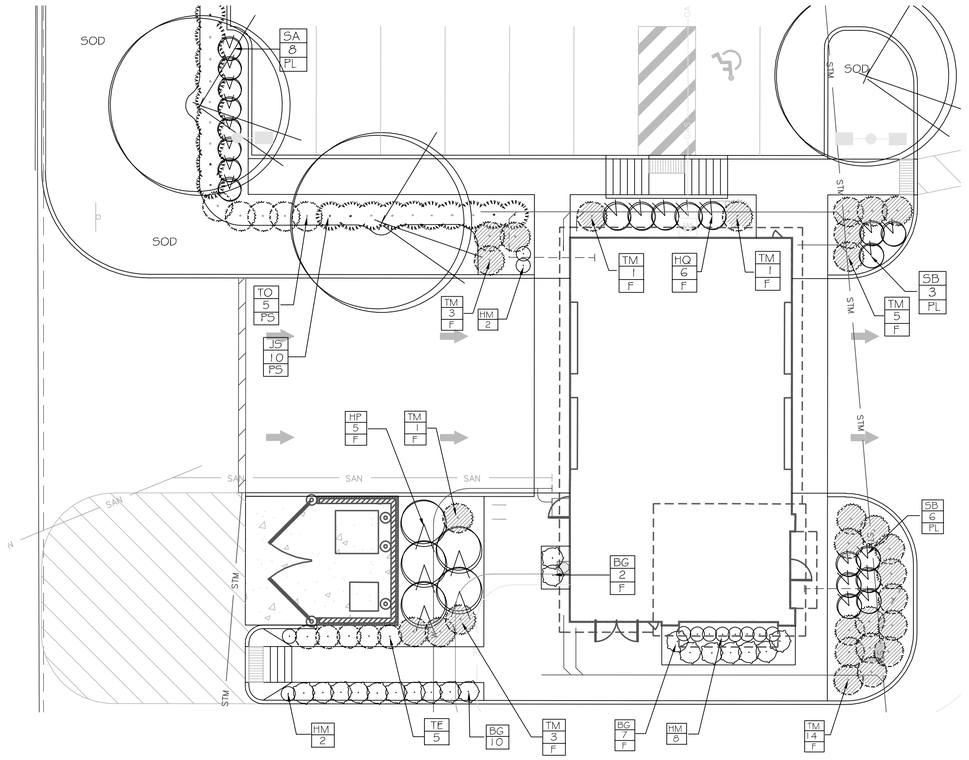
Project No.	756125
Scale	AS NOTED
Drawn	REB
Checked	JTF
Date	05-27-19

Drawing Title

SITE LANDSCAPE PLAN

Drawing No.

L-1.0

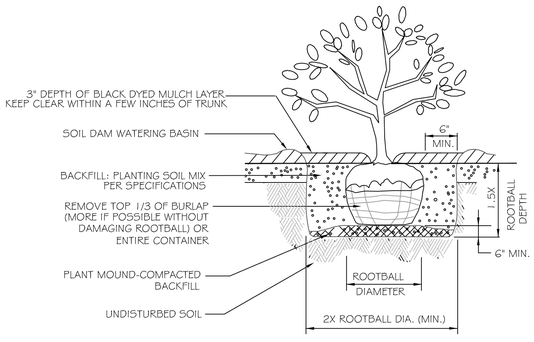


BUILDING FOUNDATION LANDSCAPE PLAN

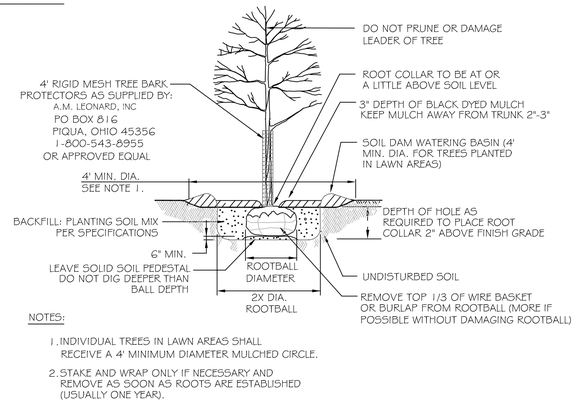
SCALE: 1" = 10'

10 0 10 20

PLANT INSTALLATION DETAILS



SHRUB PLANTING DETAIL



NOTES:

1. INDIVIDUAL TREES IN LAWN AREAS SHALL RECEIVE A 4' MINIMUM DIAMETER MULCHED CIRCLE.
2. STAKE AND WRAP ONLY IF NECESSARY AND REMOVE AS SOON AS ROOTS ARE ESTABLISHED (USUALLY ONE YEAR).

CANOPY TREE PLANTING DETAIL

NTS

PLANT MATERIALS LIST This Sheet Only

KEY	QTY.	PLANT NAME	MINIMUM INSTALLED SIZE	SPACING
		SHRUBS & GRASSES		
BG	17	BOXWOOD - Buxus x 'Green Gem'	15" ht. cont.	3' OC
HP	5	LIMELIGHT HYDRANGEA - Hydrangea paniculata 'Limelight'	36" ht. B/B or cont.	5-1/2' OC
HQ	6	RUBY SLIPPERS HYDRANGEA - Hydrangea querc. 'Ruby Slippers'	24" ht. B/B or cont.	3' OC
JS	10	SEAGREEN JUNIPER - Juniperus chinensis 'Seagreen'	24" ht. B/B or cont.	3' OC
SA	8	AW SPIREA - Spirea bumalda 'Anthony Waterer'	18" ht. B/B or cont.	3' OC
SB	9	GOLDFLAME SPIREA - Spirea bumalda 'Goldflame'	18" ht. B/B or cont.	3' OC
TO	5	RHEINGOLD ARBORVITAE -Thuja occidentalis 'Rheingold'	24" ht. B/B or cont.	3' OC
TE	5	EMERALD ARBORVITAE -Thuja occidentalis 'Emerald'	4' ht. B/B or cont.	3' OC
TM	28	DENSE YEW - Taxus media densiformis	24" ht. B/B or cont.	3' OC
		PERENNIALS		
HM	12	PURPLE CORALBELLS - Heuchera micrantha 'Palace Purple'	#2 cont.	2' OC

PLANT KEY

JB	PLANT SPECIES ABBREVIATION
17	NUMBER OF PLANTS
PY	LANDSCAPE REQUIREMENT

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No.	Revisions/Submissions	Date
	DRC SUBMITTAL	05.27.19
	PERMIT SET	05.24.19
	OWNER REVIEW	05.02.19

Valvoline Instant Oil Change

VALVOLINE INSTANT OIL CHANGE
2370 EAST MAIN STREET
PLAINFIELD, IN 46168

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ROGER E. REA REGISTERED NO. 20600100 STATE OF INDIANA LANDSCAPE ARCHITECT

Project No.	756125
Scale	AS NOTED
Drawn	REB
Checked	JTF
Date	05-27-19

Drawing Title

DETAIL LANDSCAPE PLAN

Drawing No. L-1.1

GENERAL IRRIGATION REQUIREMENTS

1. THE IRRIGATION SYSTEM IS DIAGRAMMATIC BASED UPON THE INFORMATION PROVIDED BY THE OWNER OR THE OWNER'S REPRESENTATIVE. THE SUCCESSFUL CONTRACTOR IS RESPONSIBLE TO INSTALL A SYSTEM THAT WILL PROPERLY COVER ALL AREAS INDICATED ON THE DESIGN. ACTUAL LAYOUT OF PIPING, SPRINKLER HEADS, VALVES, CONTROLLERS AND OTHER RELATED EQUIPMENT SHALL BE DETERMINED ON SITE. MINOR FIELD CHANGES SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILITIES AND MAKE THE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS. THERE MAY BE TIMES WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADES OR DIMENSIONS THAT EXIST MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING, SUCH OBSTRUCTIONS SHOULD BE BROUGHT TO THE ATTENTIONS OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND COSTS THAT OCCUR.

2. THIS SYSTEM SHALL BE INSTALLED USING ACCEPTED AND QUALITY INSTALLATION STANDARDS AS USED IN THE INDUSTRY. ALL MANUFACTURERS SPECIFICATIONS WILL BE FOLLOWED.

3. MAINLINE SHALL BE BURIED A MINIMUM OF 12" OF COVER AND A MAXIMUM OF 18" OF COVER. LATERAL LINE PIPING A MINIMUM OF 12" OF COVER. ALL BACKFILL SURROUNDING THE PIPE SHALL BE CLEANED OF MATERIALS LARGER THAN 1" IN SIZE. BACKFILL SHALL BE ADDED IN 6" INCREMENTS AND MECHANICALLY TAMPED.

4. THERE WILL BE NO SUBSTITUTIONS OR CHANGES TO THE IRRIGATION DESIGN ALLOWED WITHOUT DIRECT, WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT.

5. SYSTEM DESIGN IS BASED ON PRESSURE AND FLOW INFORMATION PROVIDED BY OTHERS, STATIC PRESSURE WAS GIVEN AS 70 PSI AND THE SIZE OF THE P.O.C. IS AS INDICATED ON THE DRAWING. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURES PRIOR TO CONSTRUCTION. REPORT DIFFERENCES BETWEEN REQUIREMENTS AND THE ACTUAL READINGS TO THE OWNER'S REPRESENTATIVE. A BOOSTER PUMP MAY BE NECESSARY IF THE REQUIRED PRESSURE IS NOT AVAILABLE. ADDITIONAL COSTS SHALL BE SUBMITTED TO THE OWNER AS A CHANGE ORDER.

6. PIPING SHOWN IN PAVED AREA WITHOUT SLEEVE IS DIAGRAMMATIC AND SHALL BE LOCATED INSIDE OF THE PLANTED AREA OR TURF AREA APPROXIMATELY 1' FROM ANY HARDSCAPE.

7. ALL VALVES SHALL BE PLACED IN VALVE BOXES AS SHOWN IN THE DETAILS AND ALL ELECTRICAL CONNECTIONS SHALL BE SEALED WITH WATERPROOF CONNECTORS. CONTROL WIRE SHALL BE SOLID COPPER WIRE U.L. APPROVED FOR DIRECT BURIAL IN THE GROUND. SEE DETAILS.

8. CONTROLLER, RAIN SENSOR, METER, TAP AND BACKFLOW LOCATIONS ARE AS SHOWN ON THE PLAN OR AS STATED IN THE DETAILS AND LEGEND. ALL INFORMATION IS TO BE VERIFIED PRIOR TO ANY INSTALLATION OF THE PROJECT.

9. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL CLEAN UP ASSOCIATED WITH HIS WORK.

10. IRRIGATION CONTRACTOR SHALL ALL PROVIDE THE FIRST WINTERIZATION, SPRING TURN ON, HEAD ADJUSTMENTS AND CONTROLLER MAINTENANCE IN BID.

IRRIGATION SCHEDULE:

SYMBOL	MANUFACTURER/MODEL
10 Q, 10 T, 10 H, 10 F	Rain Bird 1804 10 Series MPR
12 Q, 12 T, 12 H, 12 F	Rain Bird 1804 12 Series MPR
15 Q, 15 T, 15 H, 15 F	Rain Bird 1804 15 Series MPR
8 08HE-VAN, 12 12HE-VAN, 10 10HE-VAN, 15 15HE-VAN, R-VAN 1318, R-VAN 1724	Rain Bird 1804 ADJ
	Rain Bird R-VAN-1318 1804-SAM-P45

SYMBOL	MANUFACTURER/MODEL
1.5	Rain Bird 5004-PC, FC
3.0	Rain Bird 5004-PC, FC

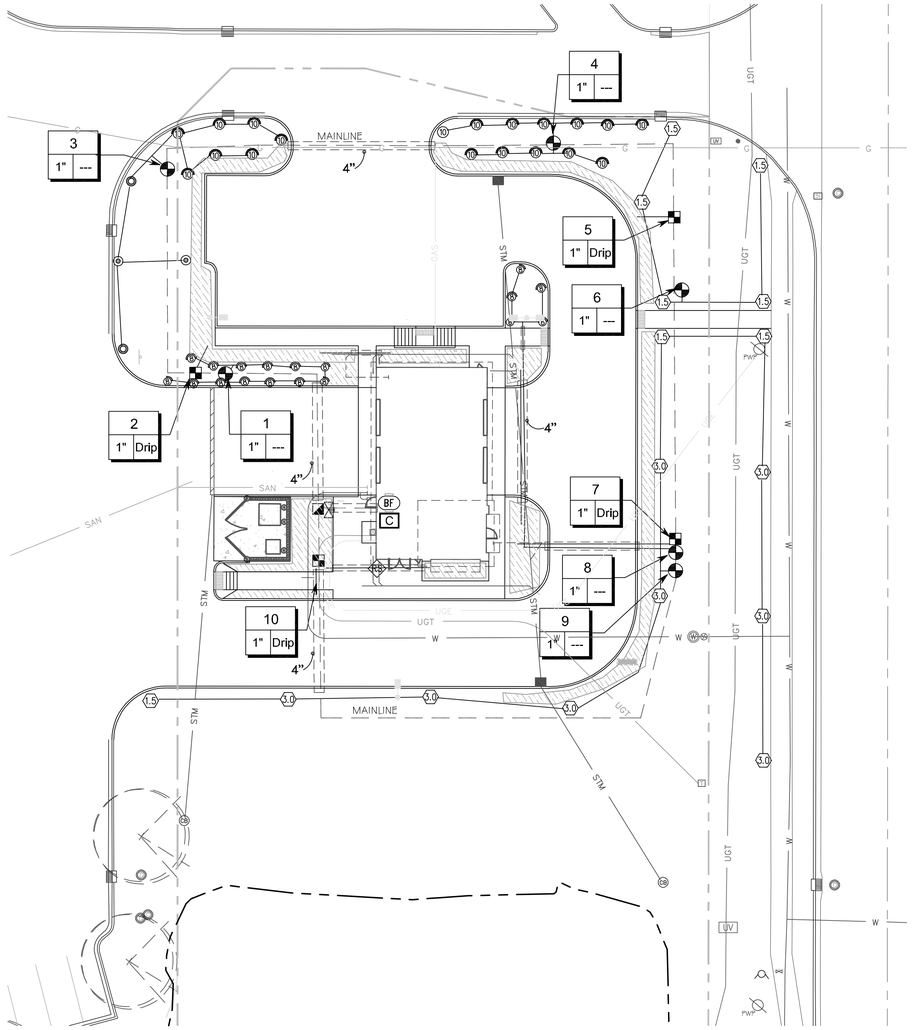
SYMBOL	MANUFACTURER/MODEL
	Rain Bird XCZ-100-PRF
	Area to Receive Dripline Rain Bird XFD-06-18 (22)

SYMBOL	MANUFACTURER/MODEL
	Rain Bird PGA Globe
	Rain Bird 5-RC
	Nibco TI-8
BF	Zurn 375 1"
C	Rain Bird ESP4ME with (2) ESP-SM3
RS	Rain Bird WR2-RS
	Irrigation Lateral Line: PVC Class 200 SDR 21
	Irrigation Mainline: PVC Class 200 SDR 21
	Pipe Sleeve: PVC Schedule 40

Valve Callout

— Valve Number

#" / #• — Valve Flow / Valve Size



SITE IRRIGATION PLAN

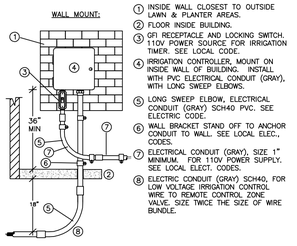
SCALE: 1" = 20'

NORTH

20 0 20 40

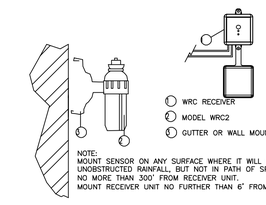
GRAPHIC SCALE (IN FEET)

IRRIGATION DETAILS:



1. INSIDE WALL CLOSEST TO OUTSIDE LAWN & PLANTER AREAS.
2. FLOOR INSIDE BUILDING.
3. GFI RECEPTACLE AND LOCKING SWITCH. 110V POWER SOURCE FOR IRRIGATION TIMER. SEE LOCAL CODE.
4. IRRIGATION CONTROLLER, MOUNT ON INSIDE WALL OF BUILDING. INSTALL WITH PVC ELECTRICAL CONDUIT (GRAY), WITH LONG SWEEP ELBOWS.
5. LONG SWEEP ELBOW, ELECTRICAL CONDUIT (GRAY) SCH40 PVC. SEE ELECTRIC CODE.
6. WALL BRACKET STAND OFF TO ANCHOR CONDUIT TO WALL. SEE LOCAL ELEC., CODES.
7. ELECTRICAL CONDUIT (GRAY), SIZE 1" MINIMUM. FOR 110V POWER SUPPLY. SEE LOCAL ELECT. CODES.
8. ELECTRIC CONDUIT (GRAY) SCH40, FOR LOW VOLTAGE IRRIGATION CONTROL WIRE TO REMOTE CONTROL ZONE VALVE. SIZE TWICE THE SIZE OF WIRE BUNDLE.

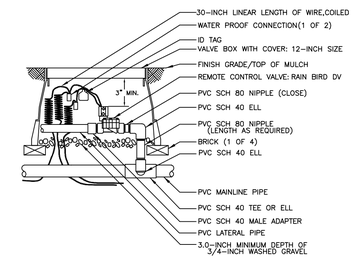
1 RAINBIRD ESP CONTROLLER
NTS SECTION



1. WRC RECEIVER
2. MODEL WRC2
3. GUTTER OR WALL MOUNT

NOTE:
MOUNT SENSOR ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY, NO MORE THAN 300' FROM RECEIVER UNIT. MOUNT RECEIVER UNIT NO FURTHER THAN 6' FROM CONTROLLER.

2 RAINBIRD RAIN SENSOR
NTS SECTION



1. 30-INCH LINEAR LENGTH OF WIRE,COILED
2. WATER PROOF CONNECTION(1 OF 2)
3. ID TAG
4. VALVE BOX WITH COVER: 12-INCH SIZE
5. FINISH GRADE/TOP OF MULCH
6. REMOTE CONTROL VALVE: RAIN BIRD DV
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC SCH 40 ELL
12. PVC MAINLINE PIPE
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

3 RAINBIRD DV-100 ELECTRIC VALVE
NTS

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No.	Revisions/Submissions	Date
	DRC SUBMITTAL	05.27.19
	PERMIT SET	05.24.19
	OWNER REVIEW	05.02.19

VALVOLINE INSTANT OIL CHANGE
2370 EAST MAIN STREET
PLAINFIELD, IN 46168

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ROGER E. BEAL REGISTERED NO. 20600100 STATE OF INDIANA LANDSCAPE ARCHITECT

Project No.	756125
Scale	AS NOTED
Drawn	REB
Checked	JTF
Date	05-27-19

Drawing Title

SITE IRRIGATION PLAN

Drawing No.

L-2.0