# ARCADIA AR4HPDT

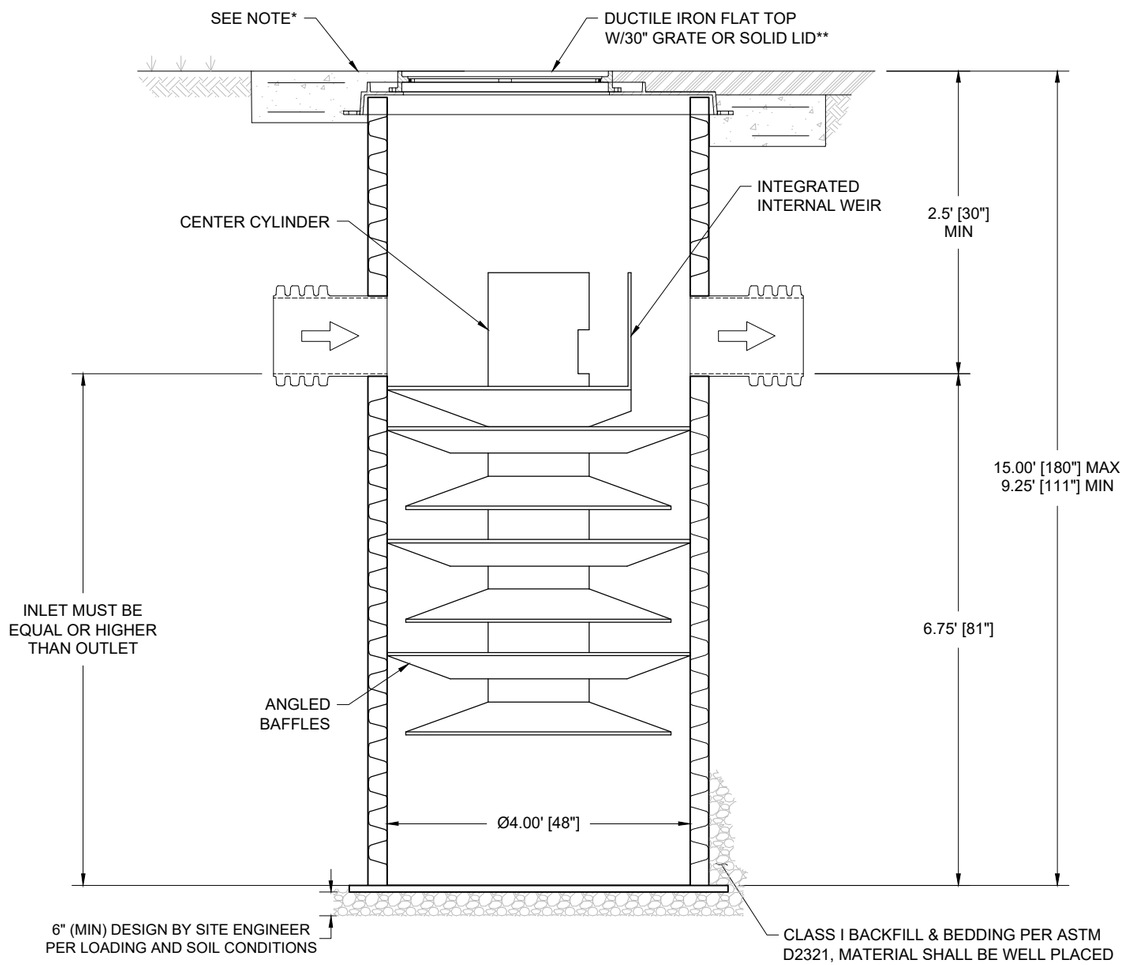
PLEASE NOTE: 4"-10" CONNECTIONS REQUIRE THE USE OF INSERTA-TEE FITTINGS AND ARE TO BE ORDERED SEPARATELY FROM THE WATER QUALITY HP MANHOLE. INSERTA-TEE FITTINGS ORDERED ARE DEPENDENT ON CONNECTION DIAMETER AND MATERIAL TYPE.

## ATTENTION:

THIS TREATMENT UNIT WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON GROUNDWATER LEVELS. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE GROUNDWATER LEVEL RELATIVE TO THE BURIED DEPTH OF THE UNIT. IF THE GROUNDWATER DEPTH ABOVE THE BOTTOM OF THE SUMP EXCEEDS ONE-THIRD THE DEPTH OF THE UNIT, CONTACT ADS FOR SOLUTIONS. SEE TECHNICAL NOTE 5.22 FOR GUIDANCE.

* CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

** SUPPLIED BY ADS FOR LOADS NOT TO EXCEED HL-93; SEE STD-414 FOR FURTHER DETAILS OF FRAME & COVER. ALTERNATE LID & FRAME BY OTHERS AS ALLOWED PER DESIGN ENGINEER. FRAME TO BE SUPPORTED BY CONCRETE COLLAR.



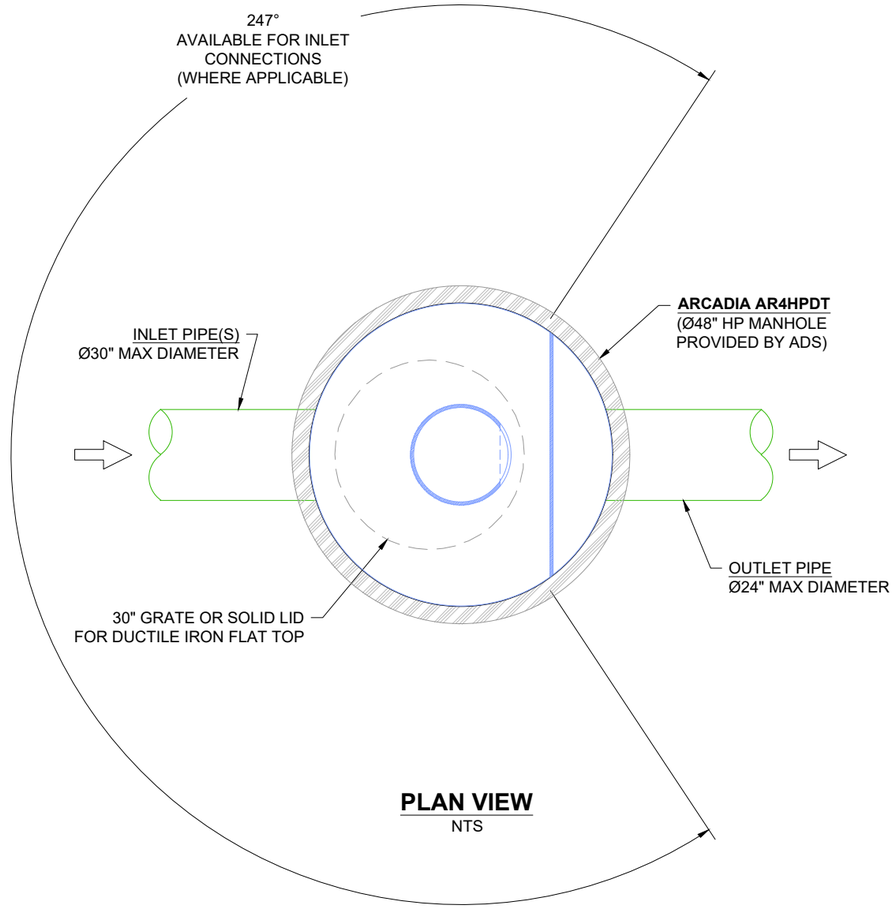

**PROFILE VIEW**
NTS

## PRODUCT SPECIFICATIONS

- THE STORMWATER TREATMENT UNIT SHALL BE AN INLINE UNIT CAPABLE OF CONVEYING 100% OF THE DESIGN PEAK FLOW. IF PEAK FLOW RATES EXCEED MAXIMUM HYDRAULIC RATE, THE UNIT SHALL BE INSTALLED OFFLINE.
- THE ARCADIA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF THE SUSPENDED SOLIDS ON AN ANNUAL AGGREGATE REMOVAL BASIS. SAID REMOVAL SHALL BE BASED ON FULL-SCALE THIRD PARTY VERIFIED TESTING USING OK-110 MEDIA GRADATION OR EQUIVALENT AND 300 MG/L INFLUENT CONCENTRATION. FULL SCALE TESTING SHALL HAVE INCLUDED SEDIMENT CAPTURE BASED ON ACTUAL TOTAL MASS COLLECTED BY THE STORMWATER TREATMENT UNIT.

  -OR -

  THE ARCADIA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 50% OF TSS USING A MEDIA MIX WITH D50=75 MICRON AND 200 MG/L INFLUENT CONCENTRATION.




**PLAN VIEW**
NTS

## NOTES:

- ENGINEER / CONTRACTOR TO CONFIRM PIPE MATERIALS AND APPLICABLE ADAPTERS.
- CONTRACTOR IS RESPONSIBLE FOR MATERIAL AND LABOR TO BRING CASTINGS TO FINISHED GRADE.
- CONTRACTOR TO MEASURE HEIGHT OF STRUCTURE TO ENSURE THAT DEPTH OF EXCAVATION IS CORRECT.
- UNIT SHALL CONFORM TO HS20-44 LOAD RATINGS.

ARCADIA AR4HPDT
HP MANHOLE
DUCTILE IRON FLAT TOP

DATE: 04/23/25 | DRAWN: JLM | CHECKED: CJD/AT
DRAWING #: 530-420

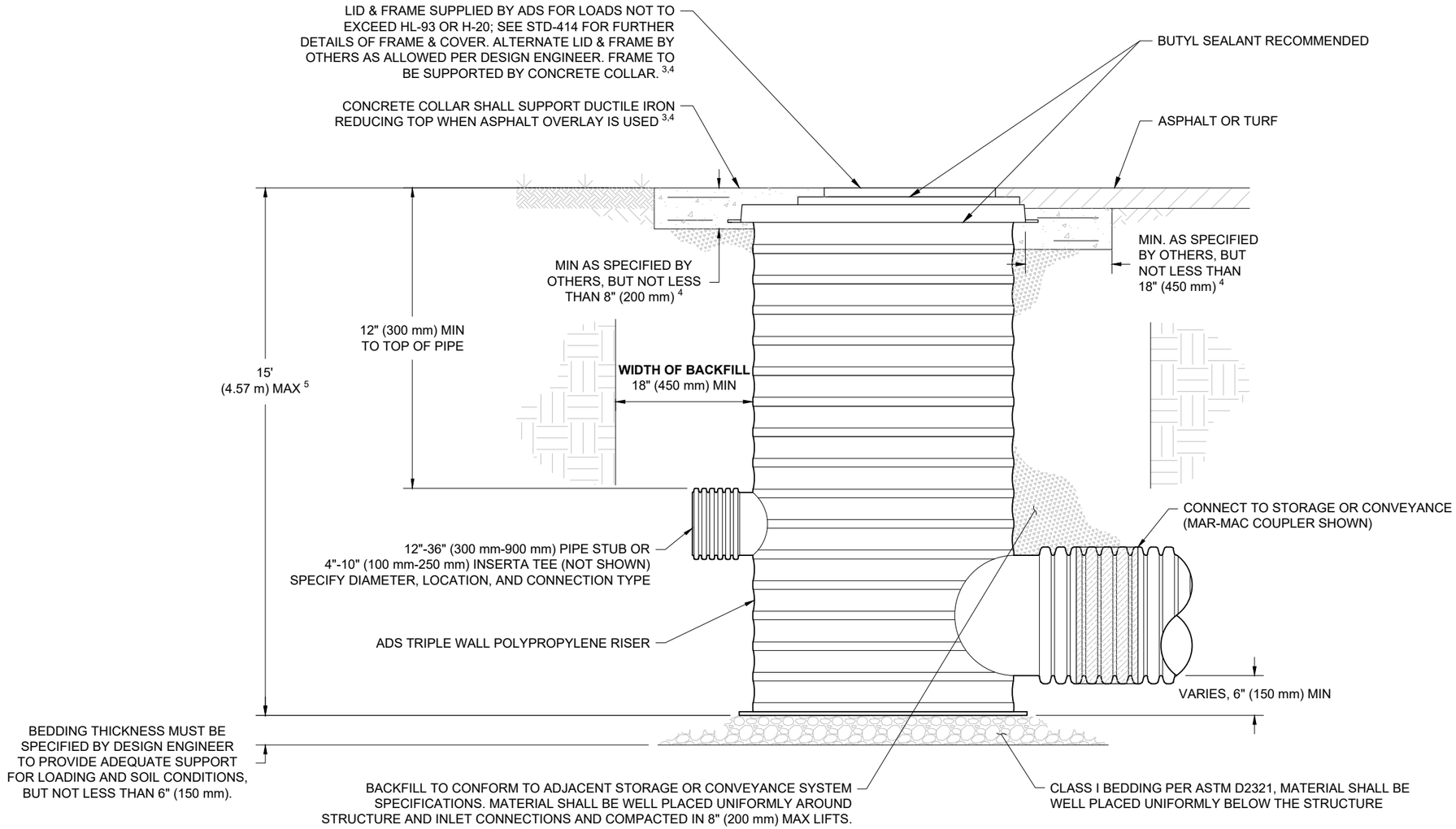
| DATE | DRWN | CHKD | DESCRIPTION |
|---|---|---|---|
| 06/13/25 | JLM | TD | CONFIGURATION & SPECS UPDATED |

ARCADIA
Stormwater Separator

4640 TRUEMAN BLVD
HILLIARD, OH 43026

# HP MANHOLE W/DUCTILE IRON FLAT FRAME INSTALLATION

NTS




NOTES:

1. ADS POLYPROPYLENE BASINS ARE TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
2. ADAPTERS CAN BE MOUNTED ON ANGLES 0° TO 359°. TO DETERMINE MAXIMUM ANGLE BETWEEN ADAPTERS, SEE DRAWING NO. 7009-110-026
3. AVOID CONSTRUCTION LOADING ON REDUCING PLATE AND STRUCTURE PRIOR TO CONCRETE COLLAR INSTALLATION
4. CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, AND OTHER APPLICABLE DESIGN FACTORS.
5. FOR BURIAL DEPTHS GREATER THAN 15' (4.57 m), OR WHERE GROUNDWATER WILL BE ENCOUNTERED, CONTACT ADS ENGINEERING.
6. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
7. FRAMES & REDUCING PLATE SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.

ARCADIA AR4HPDT
HP MANHOLE
DUCTILE IRON FLAT TOP

DATE: 04/23/25 | DRAWN: JLM | CHECKED: CJD/AT

DRAWING #: 530-420

| DATE | DESCRIPTION | CHKD | DRWN |
|---|---|---|---|
| 06/13/25 | CONFIGURATION & SPECS UPDATED | TD | TE |



ARCADIA
Stormwater Separator

4640 TRUEMAN BLVD
HILLIARD, OH 43026