

DATE: April 9, 2018

ADDENDUM NO. 2

CITY OF PLYMOUTH

**CONTRACT DOCUMENTS FOR
KILMER PARK STREET RECONSTRUCTION PROJECT
CITY PROJECT NO. ST189001.001**

To Whom It May Concern:

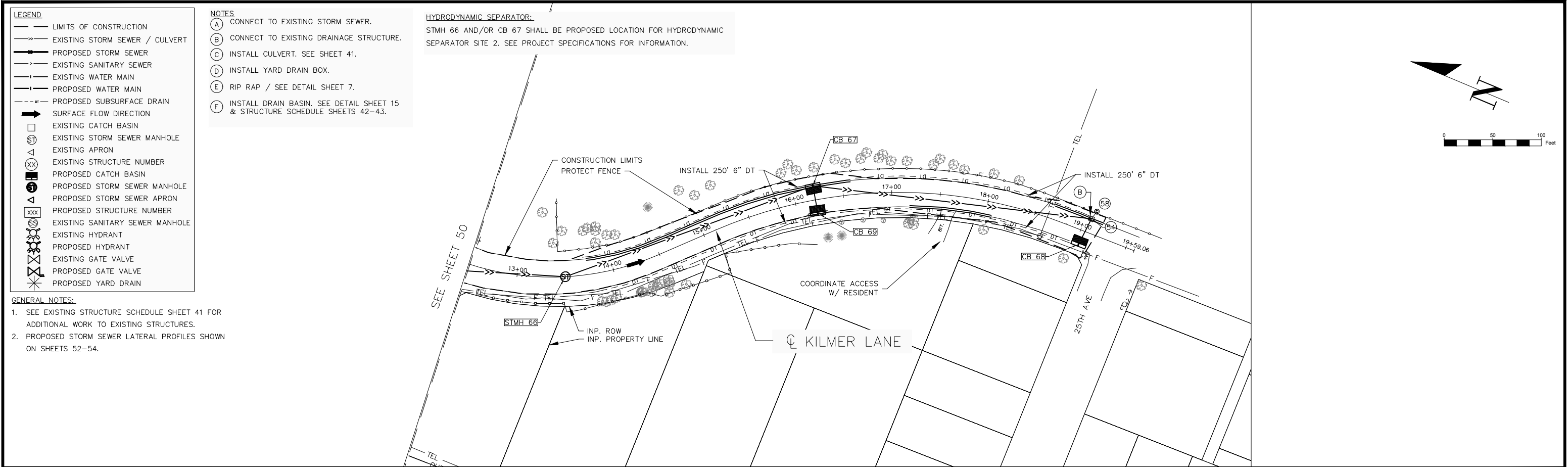
The contract documents for this project has been modified as follows:

1. Plan Revision
 - a. The Contractor shall replace Sheet 51 with "revised", attached. The following items were revised:
 - 1) Note regarding location of hydrodynamic separate for site 2 revised to be STMH 66 and/or CB 67.
2. Bid Form
 - a. The Contractor shall replace Bid Form – page 7 with "revised", attached. The following items were revised:
 - 1) The unit for Bid Item 131 – Hydrodynamic Separator Site 1 was changed to Lump Sum (L.S.) from Each.
 - 2) The unit for Bid Item 132 – Hydrodynamic Separator Site 2 was changed to Lump Sum (L.S.) from Each.
3. Supplementary Conditions
 - a. The Contractor shall replace Supplementary Conditions page SC-11 with "revised", attached. The following items were revised:
 - 1) (02300.K.C.i) - The location of hydrodynamic separator manufactured by Contech for Site 2 was changed to CB 67 from STMH 66.
4. Appendix
 - a. The Contractor shall replace Appendix B – Hydrodynamic Separator (ADS) with "revised", attached. Revisions to structures at both site 1 and site 2 were made.
 - b. The Contractor shall replace Appendix C – Hydrodynamic Separator (Contech) with "revised", attached. The structure type for site 2 was changed and moved from STMH 66 to CB 67.

Sincerely,



Mike Payne, PE
Assistant City Engineer
(763) 509-5538



ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
BID ALTERNATE A					
131	HYDRODYNAMIC SEPARATOR SITE 1	L.S.	1	\$ _____	\$ _____
TOTAL BID ALTERNATE A					\$ _____

UNIT PRICE SCHEDULE

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
BID ALTERNATE B					
132	HYDRODYNAMIC SEPARATOR SITE 2	L.S.	1	\$ _____	\$ _____
TOTAL BID ALTERNATE B					\$ _____
TOTAL BASE BID + BID ALTERNATES A & B					\$ _____

Quantities are not guaranteed. Final payment will be based on actual quantities.

5. BIDDER agrees that the Work will be substantially complete and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates indicated in the Agreement.

BIDDER accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time.

6. The following documents are attached to and made a condition of this BID:

- (a) Required Bid Security in the form of (Bidder's Bond) (Certified Check).
- (b) A tabulation of Subcontractors, Suppliers and other persons and organizations required to be identified in this Bid.
- (c) Affidavit of Non-Collusion.
- (d) (Add other documents as pertinent).

7. Communications concerning this Bid shall be addressed to the address of BIDDER indicated below.

8. The terms used in this Bid which are defined in the General Conditions of the Construction Contract included as part of the Contract Documents have the meanings assigned to them in the General Conditions.

SUBMITTED on _____, **2018**.

- i. CB 67 shall constitute site 2 for hydrodynamic separator manufactured by Contech.
 - ii. STMH 66 and CB 67 shall constitute site 2 for hydrodynamic separator manufactured by ADS.
 - d. Manufacturer shall verify the correct installation of hydrodynamic separator.
- L. Televising Storm Sewer
 - a. Televising of storm sewer shall be considered incidental. This shall include initial televising and any re-televising of storm sewer lines as directed by Engineer.
 - b. Storm sewer shall be televised prior to placement of wear course pavement.
 - c. Engineer shall review and approve televising reports and video prior to placement of wear course pavement.
 - d. Engineer shall have a minimum of 72 hours to review televising reports and video upon delivery from Contractor.

02400 – Street Construction

- A. Measurement
 - a. Shall be in accordance with the appropriate units on the Bid Form.
 - b. Aggregate Base CL. 5 (CV)
 - i. Measurement of volume shall be compacted volume of material in place.
 - c. Trail/Sidewalk Aggregate Base CL. 5 (CV)
 - i. Measurement of volume shall be compacted volume of material in place.
 - d. Driveway Base, Agg. CL. 5 (CV)
 - i. Measurement of volume shall be compacted volume of material in place.
 - e. Aggregate Leveling Pad CL. 5 (CV)
 - i. Measurement of volume shall be compacted volume of material in place.
 - f. Select Granular Borrow (CV)
 - i. Measurement of volume shall be compacted volume of material in place.
 - g. 3" Minus Recycle Material
 - i. Measurement shall be in accordance with the appropriate units on the Bid Form.
- B. Materials
 - a. Driveway Agg. CL. 5 (100% Crushed)
 - i. Shall be in accordance with MNDOT 3138 except that material shall be 100% crushed quarry limestone. Limestone from the Platteville formation is not acceptable.
- C. Pavement Markings
 - a. Measurement for items shall be in accordance with the appropriate units on the bid form.
 - b. Material shall be paint with color as specified on the plans.
- D. PVC Split Rail Fence
 - a. Includes all materials and labor necessary to install fence per detail on construction plans. Includes complete installation, excavation, sonotubes, tube backfill, compaction, posts, rails, connectors, etc.
- E. Orange Construction Fence
 - a. Shall be 48" orange polyethylene fence mounted on posts capable of supporting fence throughout the duration of the project.
 - b. Payment shall be as shown on the bid form and includes placement, maintenance, and removal of the fence.
- F. Chainlink Fence
 - a. Shall include all materials and labor to remove, and replace with like materials, any chainlike fencing impacted by the project.
 - b. Measurement shall be in accordance with the appropriate units on the Bid Form.

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	JIM MERCHLEWITZ 612-387-2413 JIM.MERCHLEWITZ@ADS-PIPE.COM
ADS SALES REP:	TOM ROONEY 612-756-3552 TOM.ROONEY@ADS-PIPE.COM
PROJECT NO:	S074419

APPROVED BY: _____

SIGNED: _____

DATE: _____

COMPANY: _____

PHONE / EMAIL: _____



THE DOWNSTREAM DEFENDER ® AND FIRST DEFENSE ®
ARE DESIGNED, MANUFACTURED AND SUPPLIED BY HYDRO
INTERNATIONAL PLC, AND ALL TRADEMARKS ARE THE
PROPERTY OF HYDRO INTERNATIONAL PLC.

KILLMER PARK

PLYMOUTH, MN

CONTRACTOR PROVIDED DELIVERY SCHEDULE & SITE INFORMATION:

SCHEDULING INFORMATION									
SYSTEM DESIGNATION / SIZE									
SYSTEM DELIVERY DATE									

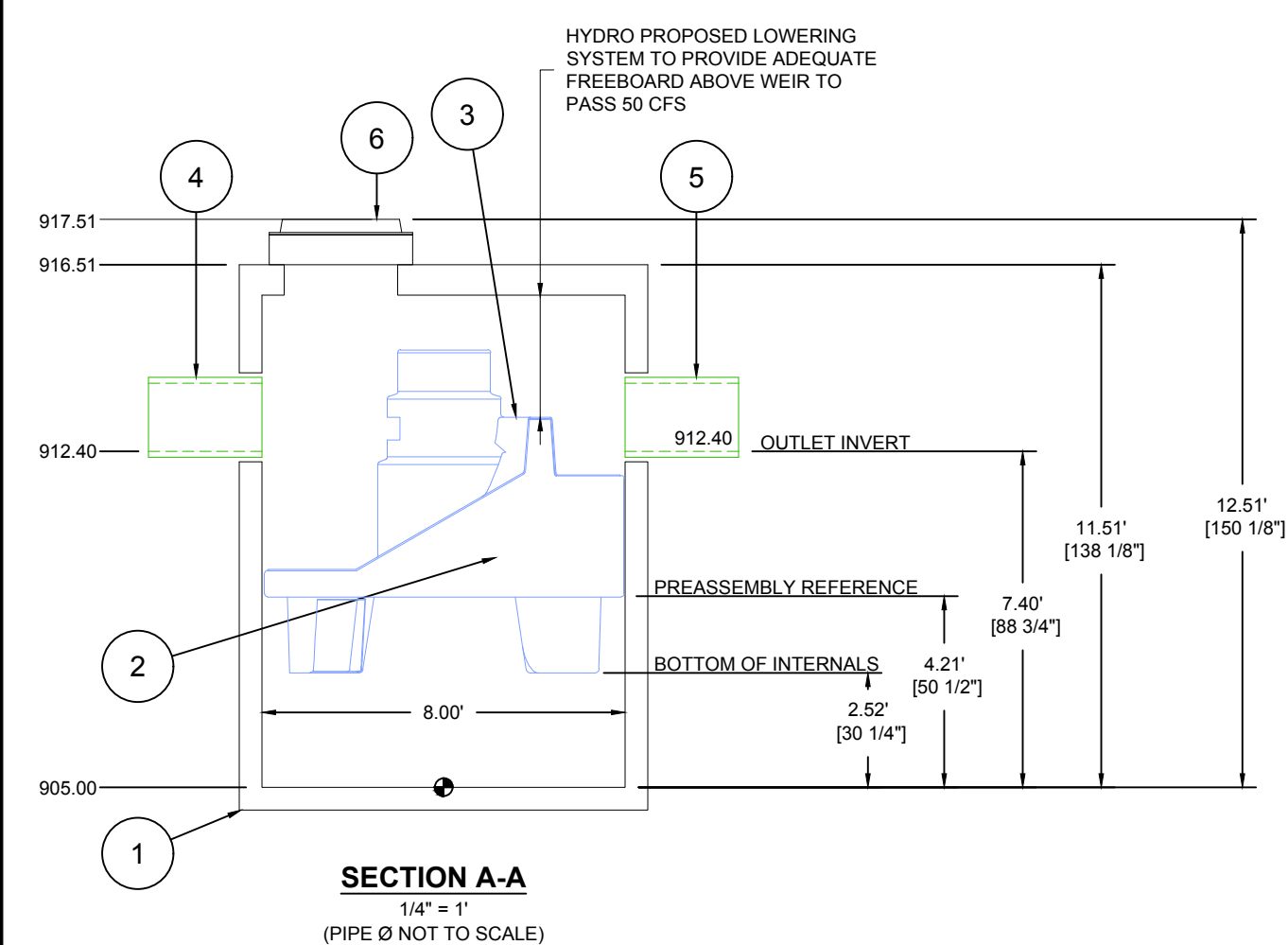
*ACTUAL DATE REQUIRED, ASAP IS NOT ACCEPTABLE AND A MINIMUM OF 4 WEEKS MUST BE PROVIDED UNLESS OTHERWISE DISCUSSED WITH A SALES REPRESENTATIVE.

DELIVERY INFORMATION			
JOB SITE STREET ADDRESS		CITY	
CONTACT		CONTACT PHONE	
ALTERNATE CONTACT		ALTERNATE PHONE	

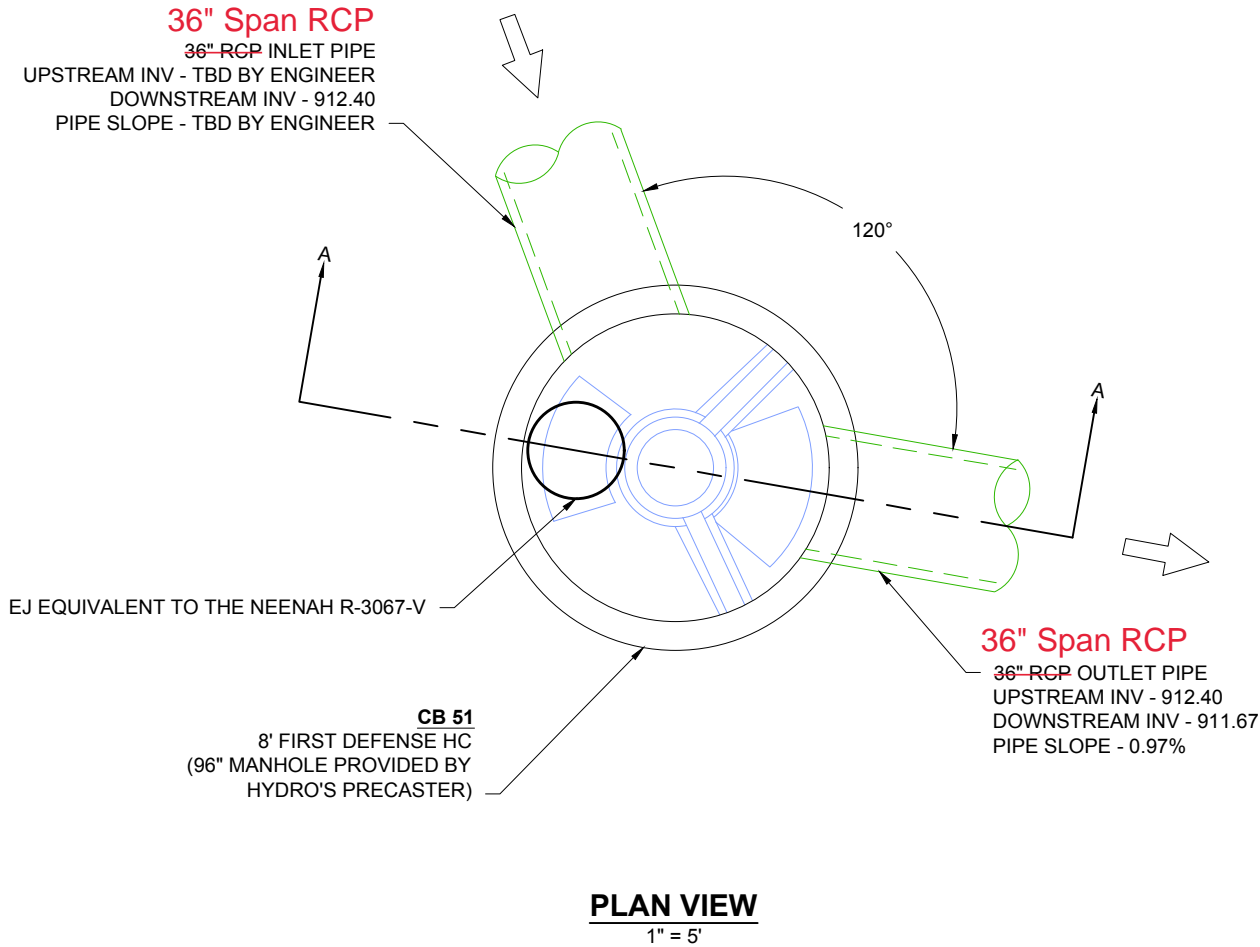
DIRECTIONS TO JOB SITE FROM NEAREST INTERSTATE:
(PLEASE NO MAPS)

PARTS LIST : 8' FIRST DEFENSE HC			
ITEM	SIZE (IN)	MATERIAL	DESCRIPTION
1	96	-	I.D. PRECAST MANHOLE
2	-	-	LEDGER SUPPORT
3	-	-	SEPARATION MODULE
4	36	RCP	INLET PIPE (BY OTHERS)
5	36	RCP	OUTLET PIPE (BY OTHERS)
6	-	-	EJ W EQUIVALENT TO THE NEENAH R-3067-V

NOTES:
ENGINEER / CONTRACTOR TO CONFIRM PIPE MATERIAL
THE CASTING SHOULD BE A 2' X 3' GRATE SUPPLIED BY
CONTRACTOR PER CITY STANDARDS



BID ALTERNATE A - SITE 1



- PRODUCT SPECIFICATIONS**
- A. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.
 - B. THE TREATMENT SYSTEM SHALL FIT WITHIN THE LIMITS OF EXCAVATION (AREA AND DEPTH) AS SHOWN IN THE PROJECT PLANS AND WILL NOT EXCEED THE DIMENSIONS FOR THE DESIGN FLOW RATES SPECIFIED HEREIN.
 - C. THE TREATMENT SYSTEM SHALL CONVEY THE PEAK ON-LINE FLOW RATES OF UP TO 50 CFS WITHOUT CAUSING UPSTREAM SURCHARGE CONDITIONS. FULL-SCALE INDEPENDENT LABORATORY SCOUR TESTING SHALL DEMONSTRATE EFFLUENT CONTROL OF LESS THAN OR EQUAL TO 5 MG/L FOR ALL FLOWS UP TO 200% OF MTFR-106.
 - D. THE TREATMENT SYSTEM SHALL BE CAPABLE OF CAPTURING AND RETAINING FINE SILT AND SAND SIZE PARTICLES. ANALYSIS OF CAPTURED SEDIMENT FROM FULL-SCALE FIELD INSTALLATIONS SHALL DEMONSTRATE PARTICLE SIZES PREDOMINATELY IN THE 20-MICRON RANGE

4640 TRUEJMAN BLVD
HILLIARD, OH 43026

4DS
ADVANCED DRAINAGE SYSTEMS, INC.

AS NOTED

STORMWATER SOLUTIONS
94 HUTCINSON DR.
PORTLAND, ME 04102-1930
(207) 756-6200
WWW.HYDRO-INT.COM

Hydro
international

THE DOWNSTREAM DEFENSES & FIRST DEFENSES ARE DESIGNED,
MANUFACTURED AND SUPPLIED BY HYDRO INTERNATIONAL P.C. AND FULL
TRADEMARKS ARE THE PROPERTY OF HYDRO INTERNATIONAL P.C.

KILLMER PARK
PLYMOUTH, MN

DATE: 03/15/18
DRAWN: ALS
PROJECT #: S074419
CHECKED: GW

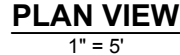
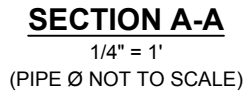
REV	DWN	CKD	DESCRIPTION
03-23-18	VLW	MRJ	UPDATES PER ENGINEER
04/06/18	ALS	JLL	REVISE PER EPM NOTES

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

2 SHEET
OF 4

ITEM	SIZE (IN)	MATERIAL	DESCRIPTION
1	96	-	I.D. PRECAST MANHOLE
2	-	-	LEDGER SUPPORT
3	-	-	SEPARATION MODULE
4	36	RCP	INLET PIPE (BY OTHERS)
5	36	RCP	OUTLET PIPE (BY OTHERS)
6	30	-	SOLID FRAME & COVER

ENGINEER / CONTRACTOR TO CONFIRM PIPE MATERIAL



A. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.

B. THE TREATMENT SYSTEM SHALL FIT WITHIN THE LIMITS OF EXCAVATION (AREA AND DEPTH) AS SHOWN IN THE PROJECT PLANS AND WILL NOT EXCEED THE DIMENSIONS FOR THE DESIGN FLOW RATES SPECIFIED HEREIN.

C. THE TREATMENT SYSTEM SHALL CONVEY THE PEAK ON-LINE FLOW RATES OF UP TO 50 CFS WITHOUT CAUSING UPSTREAM SURCHARGE CONDITIONS. FULL-SCALE INDEPENDENT LABORATORY SCOUR TESTING SHALL DEMONSTRATE EFFLUENT CONTROL OF LESS THAN OR EQUAL TO 5 MG/L FOR ALL FLOWS UP TO 200% OF MTFR-106.

D. THE TREATMENT SYSTEM SHALL BE CAPABLE OF CAPTURING AND RETAINING FINE SILT AND SAND SIZE PARTICLES. ANALYSIS OF CAPTURED SEDIMENT FROM FULL-SCALE FIELD INSTALLATIONS SHALL DEMONSTRATE PARTICLE SIZES PREDOMINATELY IN THE 20-MICRON RANG

KILLMER PARK PLYMOUTH, MN	
DATE: 03/15/18	DRAWN: ALS
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Hydro
International

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94 HUTCHINS DR.
PORTLAND, ME 04102-1930
(207) 756-6200
WWW.HYDRO-INT.COM

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ADVANCED DS
ADVANCED DRAINAGE SYSTEMS, INC.

4640 TRUEMAN BLVD
HILLIARD, OH 43026

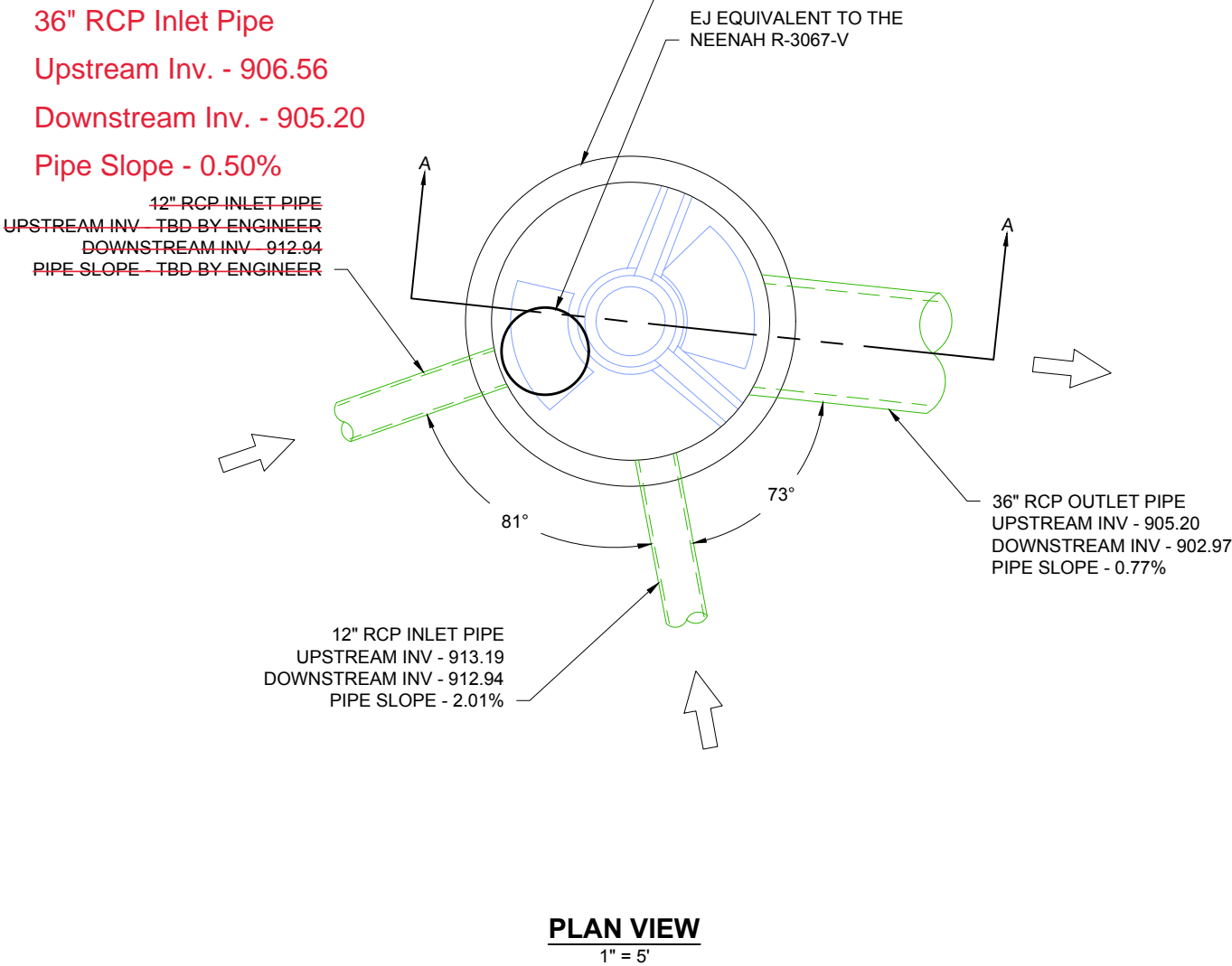
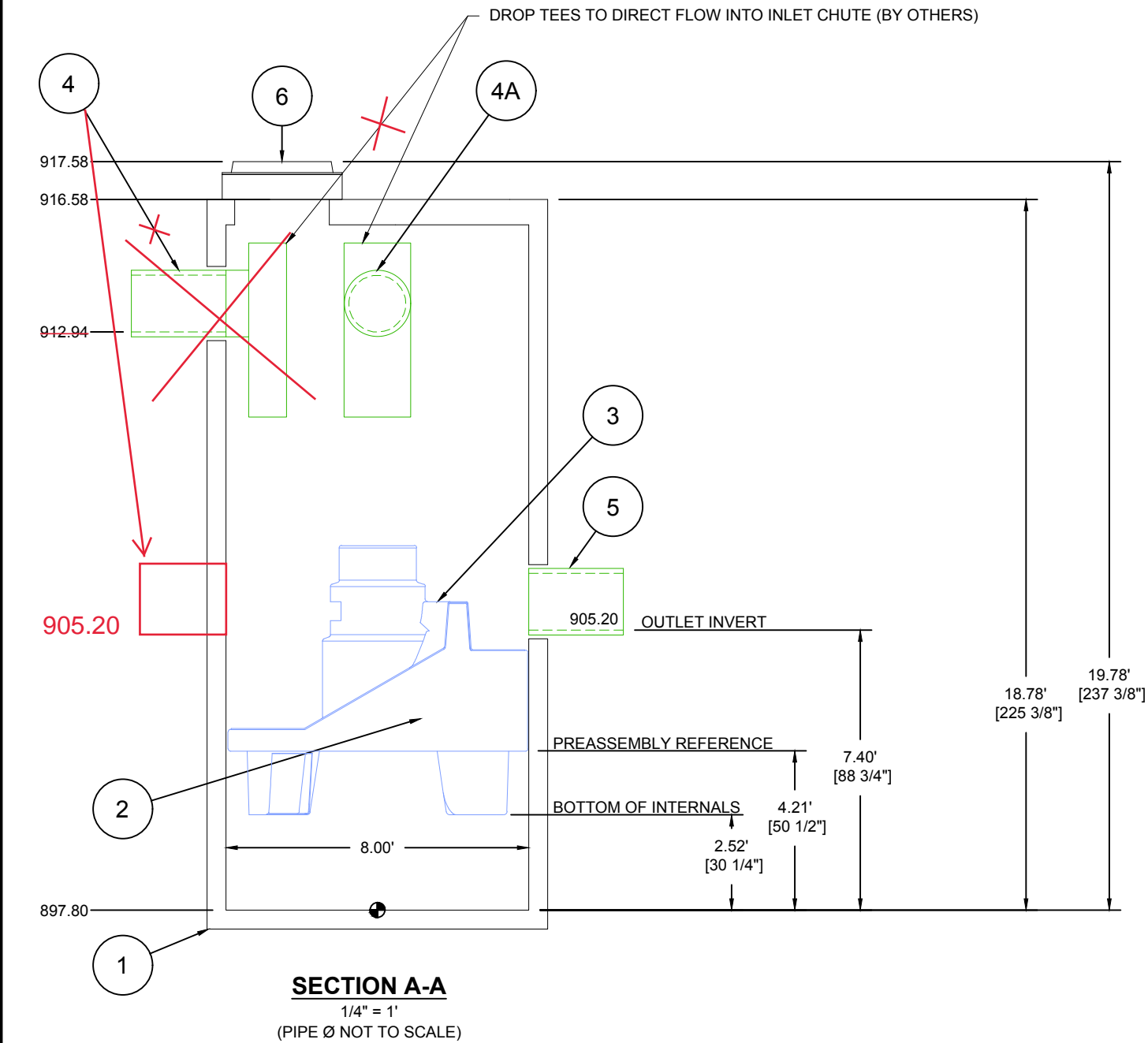
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PARTS LIST : 8' FIRST DEFENSE HC			
ITEM	SIZE (IN)	MATERIAL	DESCRIPTION
1	96	-	I.D. PRECAST MANHOLE
2	-	-	LEDGER SUPPORT
3	-	-	SEPARATION MODULE
4	12 36	RCP	INLET PIPE (BY OTHERS)
4A	12	RCP	INLET PIPE (BY OTHERS)
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KILLMER PARK

PLYMOUTH, MN

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HILLIARD, OH 43026

IDS

ADVANCED DRAINAGE SYSTEMS, INC.

AS NOTED

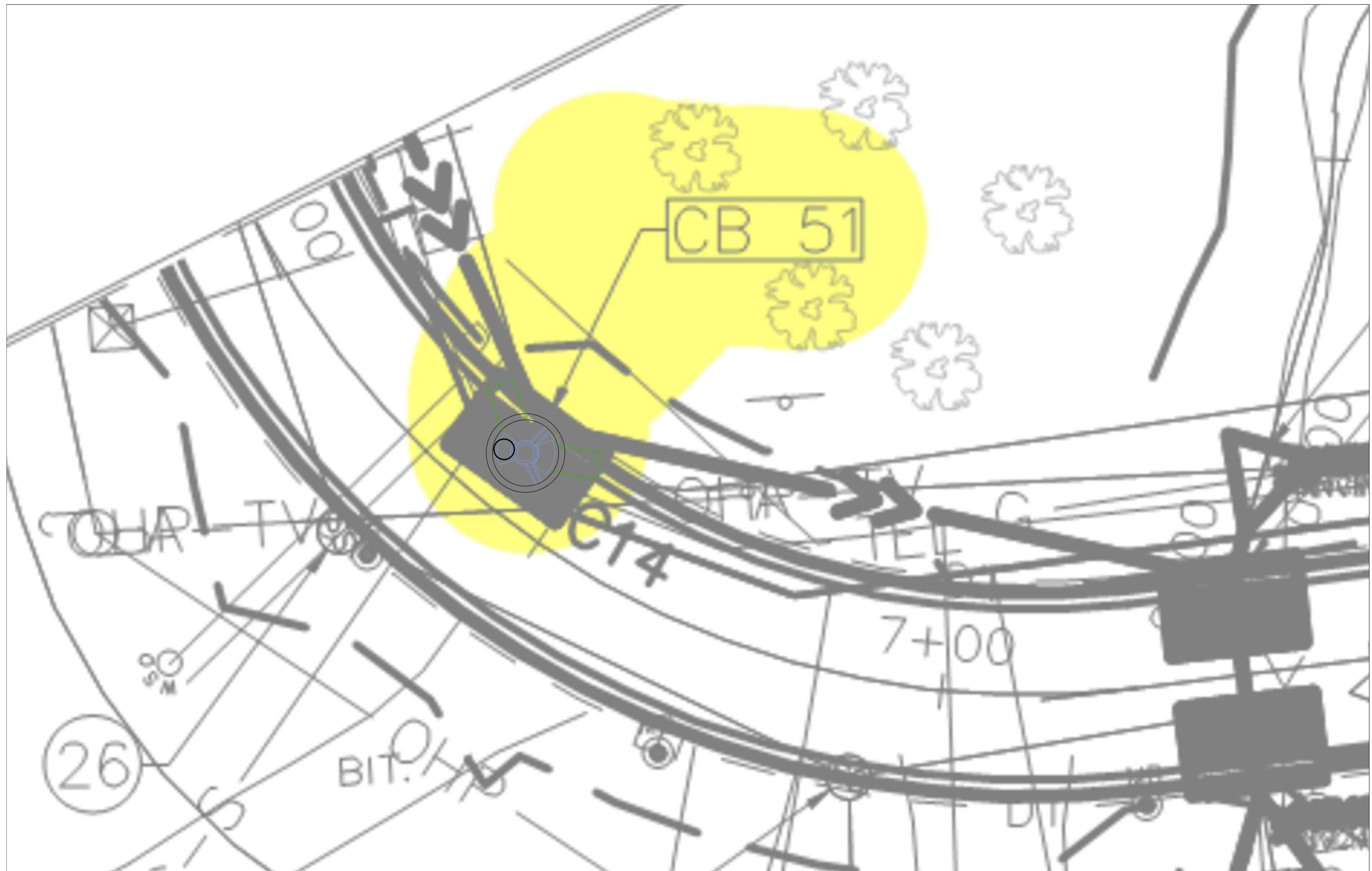
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SHEET

OF

4

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CONSTRUCTION LIMITS
PROTECT FENCE

INSTALL 250' 6" DT

CB 67

16+00

15+00

14+00

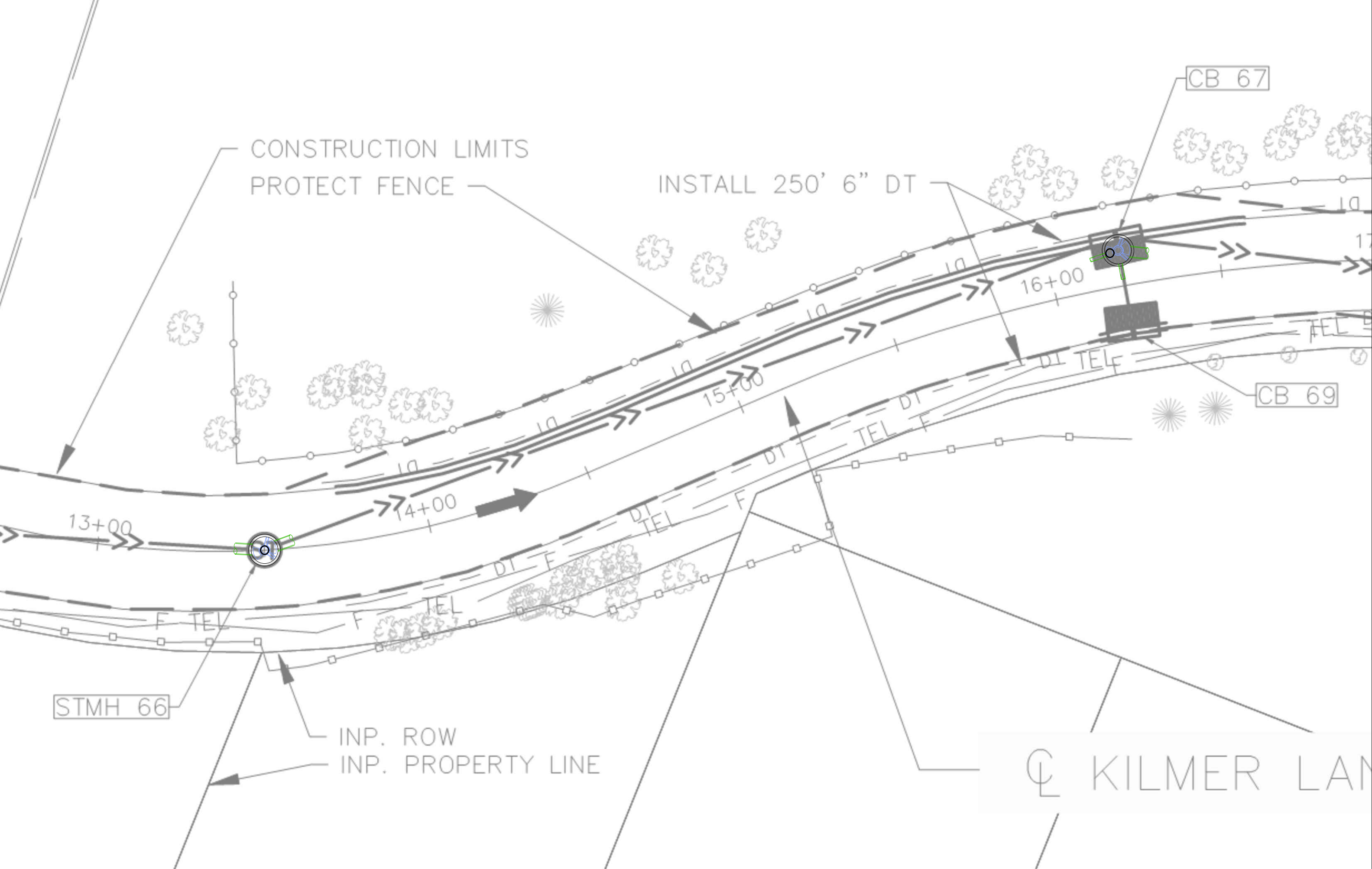
13+00

CB 69

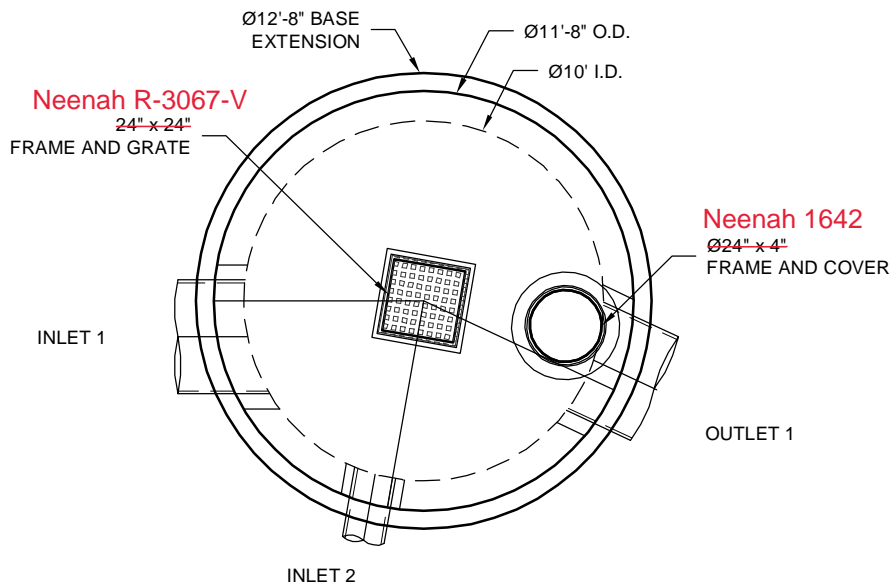
STMH 66

INP. ROW
INP. PROPERTY LINE

Q KILMER LAN

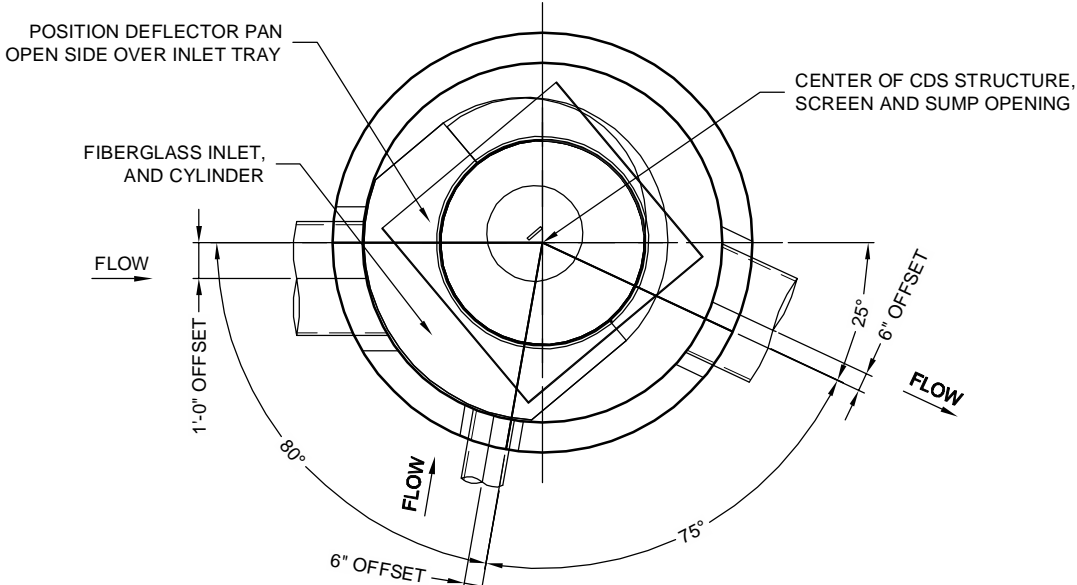


Appendix C - Hydrodynamic Separator (Contech)

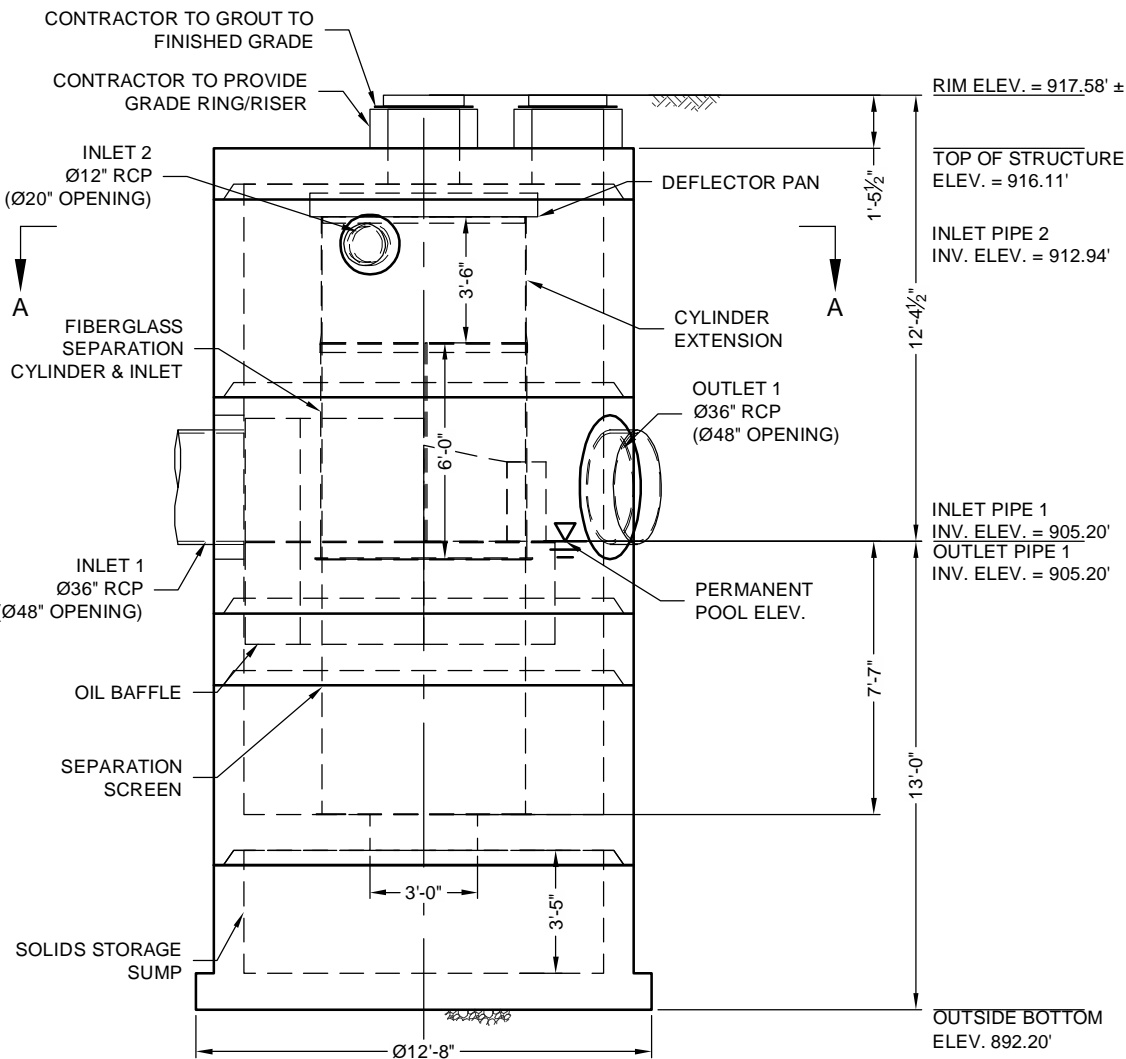


PLAN VIEW

• INTERNAL COMPONENTS TO BE
INSTALLED BY CONTECH FIELD CONSULTANT ON SITE



SECTION A-A



ELEVATION VIEW

MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	FIBERGLASS INLET AND CYLINDER	CONTECH
1	2400 micron, 5.6' O.D. x 7.08' SEP. SCREEN	CONTECH
1	CYLINDER EXTENSION	CONTRACTOR
1	DEFLECTOR PAN	CONTRACTOR
1	SEALANT FOR JOINTS (BY PRECASTER)	CONTRACTOR
1	24" x 24" FRAME & GRATE, EJ#45624002, OR EQUIV.	CONTRACTOR
1	24" x 4" FRAME & COVER, EJ#41600389, OR EQUIV.	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	17.51 CFS
PEAK FLOW RATE	47 CFS
RETURN PERIOD OF PEAK FLOW	100-YRS

Neenah R-3067-V
Neenah 1642

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 37000 LBS.
STRUCTURE IS DELIVERED IN 6 PIECES

MAX FOOTPRINT = 12'-8"

CONTECH
PROPOSAL
DRAWING

WIES
LAYOUT 1A
5668-10-FGIS
5883 / 1041

CDS5668-10-C - 585878-20
KILMER PARK STREET
RECONSTRUCTION
MINNEAPOLIS, MN
for SYSTEM: CB67

CONTECH
ENGINEERED SOLUTIONS LLC
www.ContechES.com
2201 W. Royal Lane, Suite 200, Irving, TX 761

CDS

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE
PATENTED FORAMEN INVENTS OR OTHER PATENT RIGHTS

DATE:	04/08/18	SCALE:	3/16" = 1'-0"
DESIGNED:	CMF	DRAWN:	CMF
CHECKED:	XXX	APPROVED:	----
PROJECT No.:	585878	SEQUENCE No.:	20
SHEET:	1	OF	1