

Site Visit Report

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OCT 21 2015

PLANNING BOARD
GRAFTON, MA

www.gravesengineering.com

Date: 10/15/15
Client: Grafton Planning Board
Project: Proposed Site Development, CEC Solar #1056 LLC, 207 Providence Rd.
Contractor: Field Engineering Co., Inc.
Contractor Contact: Rich Riccio

Prepared By: Jeffrey Walsh
Arrived on site: 10:10 AM
Left site: 11:40 AM
Site Conditions: Damp
Weather: 60°, Clear

Transmitted by:	
<input checked="" type="checkbox"/> Mail	<input checked="" type="checkbox"/> E-mail
<input type="checkbox"/> Hand	<input type="checkbox"/> Other:
<input type="checkbox"/> Fax	

Comments:

GEI was on-site to witness deep hole test pits at the anticipated locations of two proposed stormwater management facilities. Field Engineering Co., Inc. located the test pits, which were excavated by Northboro Septic Service, Inc. with a mini-excavator. The test pits were evaluated by Rich Riccio of Field Engineering Co., Inc. It is the responsibility of the design engineer to verify compliance with the MassDEP Stormwater Management Guidelines and Town of Grafton requirements relative to test pit locations and depth. Two test pits were evaluated at each of the two anticipated stormwater management facilities. Sketches of the testing locations are attached to this site visit report. The findings of the soil evaluations are presented below.

TP-1 (in Detention Basin 2)		
DEPTH	SOIL HORIZON	SOIL TEXTURE
0 - 9"	O/A	Sandy loam (SL), 10YR3/2
9 - 24"	Bw	SL, 10YR4/6
24 - 84"	C	SL, 2.5Y5/4, faint high chroma mottling @ 36"
Weeping Water: NA		
Standing Water: NA		
Estimated Seasonal High Groundwater Table @ 36" (mottling)		
Refusal: NA		
Parent Material: Dense sandy glacial till		

TP-2 (in Detention Basin 2)		
DEPTH	SOIL HORIZON	SOIL TEXTURE
0 - 8"	O/A	Sandy loam (SL), 10YR3/2
8 - 22"	Bw	SL, 10YR4/6
22 - 80"	C	SL, 10YR6/4, faint high chroma mottling @ 40"
Weeping Water: NA		
Standing Water: NA		
Estimated Seasonal High Groundwater Table @ 40" (mottling)		
Refusal: NA		
Parent Material: Dense sandy glacial till		

TP-3 (in Detention Basin 1)		
DEPTH	SOIL HORIZON	SOIL TEXTURE
0 - 8"	O/A	Sandy loam (SL), 10YR3/2
8 - 30"	Bw	SL, 10YR4/6
30 - 56"	C	SL, 2.5Y5/4, stoney, faint high chroma mottling @ 36"
Weeping Water: NA		
Standing Water: NA		
Estimated Seasonal High Groundwater Table @ 36" (mottling)		
Refusal: Boulders or possible refusal @ 56"		
Parent Material: Dense sandy glacial till		

TP-4 (in Detention Basin 1)		
DEPTH	SOIL HORIZON	SOIL TEXTURE
0 - 7"	O/A	Sandy loam (SL), 10YR3/2
7 - 33"	Bw	SL, 10YR4/6
33 - 60"	C	SL, 2.5Y5/4, boulder @ 40", low chroma mottling @ 33"
Weeping Water: NA		
Standing Water: NA		
Estimated Seasonal High Groundwater Table @ 33" (mottling)		
Refusal: NA		
Parent Material: Dense sandy glacial till		

Action to be Taken:

Grafton Planning Board will be notified of this site visit by way of this report.

Attachments

PROP HDPE 8"X8"X12" TEE

PROPOSED 3' WIDE CRUSHED STONE EDGE DRAIN WITH 8" PERFORATED HDPE PIPE (SEE DETAIL)

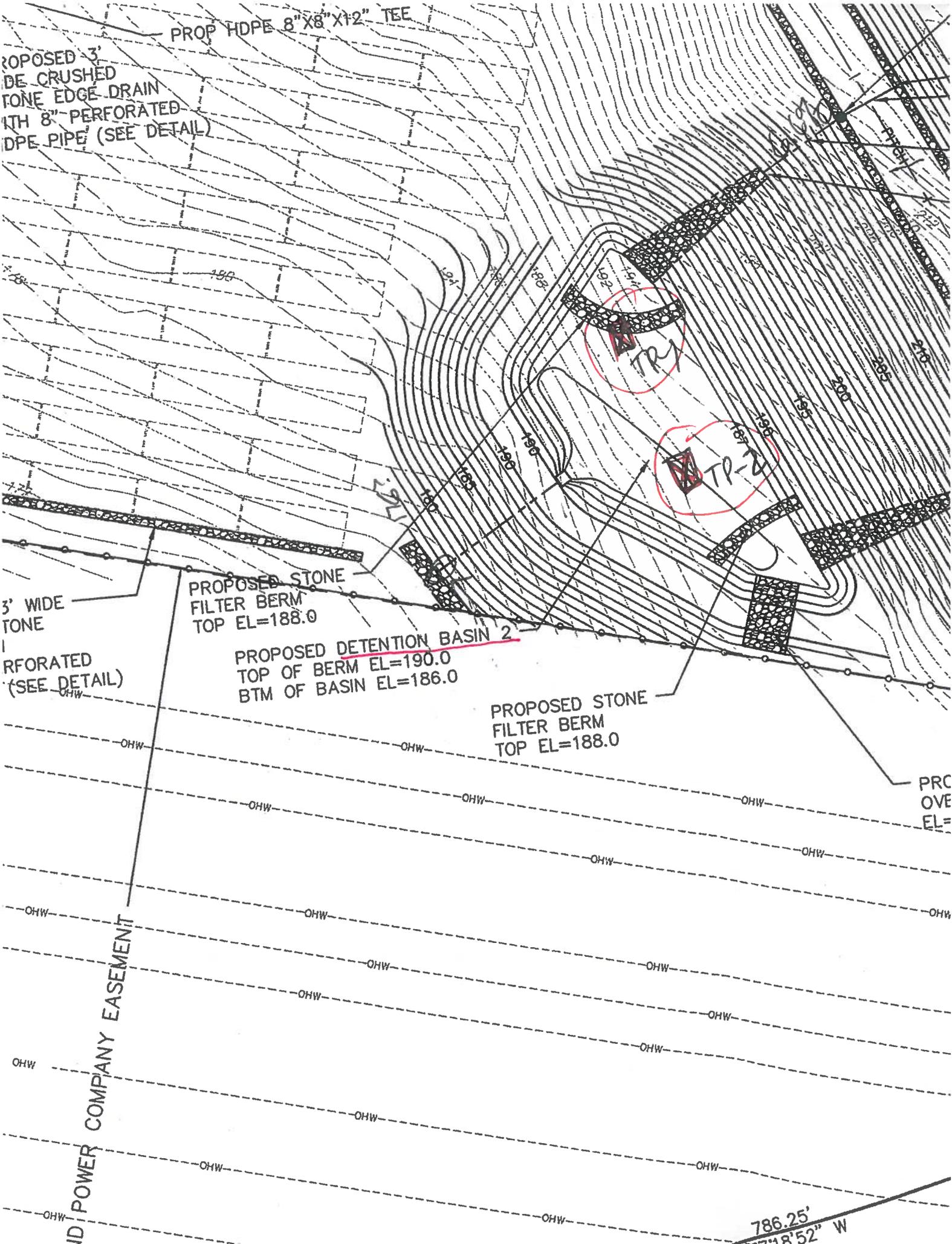
3' WIDE CRUSHED STONE PERFORATED (SEE DETAIL)

PROPOSED STONE FILTER BERM TOP EL=188.0

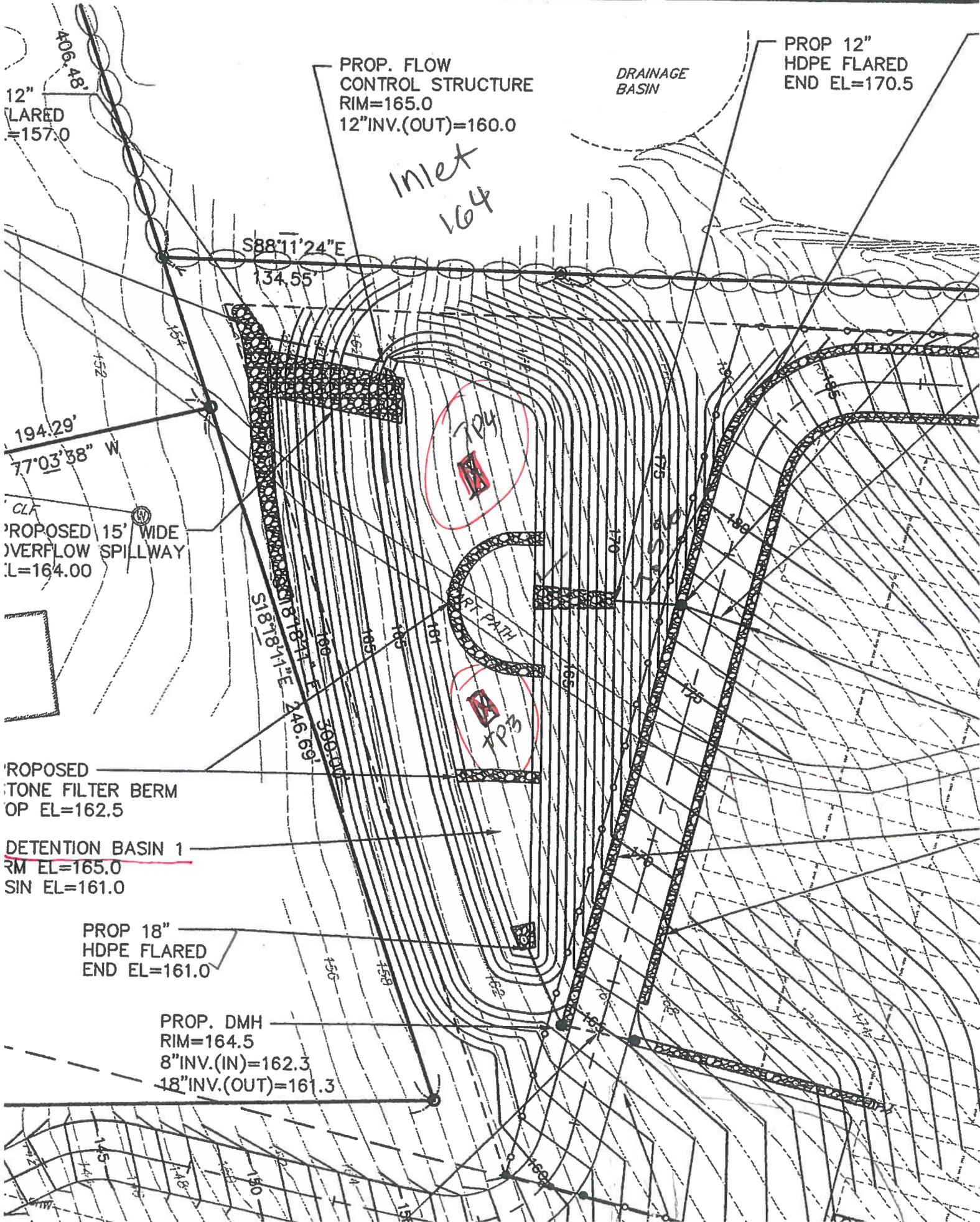
PROPOSED DETENTION BASIN 2 TOP OF BERM EL=190.0 BTM OF BASIN EL=186.0

PROPOSED STONE FILTER BERM TOP EL=188.0

ED POWER COMPANY EASEMENT



786.25'
18'52" W



12" FLARED
END EL=157.0

PROP. FLOW
CONTROL STRUCTURE
RIM=165.0
12" INV.(OUT)=160.0

DRAINAGE
BASIN

PROP 12"
HDPE FLARED
END EL=170.5

Inlet
164

S88°11'24"E
134.55'

194.29'
77°03'38" W

PROPOSED 15' WIDE
OVERFLOW SPILLWAY
EL=164.00

S18°18'11"E
300.00'

PROPOSED
STONE FILTER BERM
TOP EL=162.5

DETENTION BASIN 1
RIM EL=165.0
SIN EL=161.0

PROP 18"
HDPE FLARED
END EL=161.0

PROP. DMH
RIM=164.5
8" INV.(IN)=162.3
18" INV.(OUT)=161.3