

IMPROVEMENT PLANS
FOR
CEIA USA
HUDSON CROSSING PARKWAY
HUDSON CROSSING BUSINESS PARK
IN THE
CITY OF HUDSON
COUNTY OF SUMMIT
STATE OF OHIO

TOTAL SITE ACREAGE: 32.18 AC.
EXISTING IMPERVIOUS AREA: 0.0 AC.
PROPOSED IMPERVIOUS AREA: 4.56 AC. (14%)

NOTE:
THE DEVELOPER SHALL CONTACT THE CITY OF HUDSON WHEN THIS SITE IS COMPLETED AND READY FOR OCCUPANCY. THE DEVELOPER SHALL PAY ALL COSTS OF THE SIGNAL TIMING ADJUSTMENTS TO THE SIGNAL AT HUDSON CROSSING AND THE ADJACENT SIGNAL AT SR 303 AND SR 8.

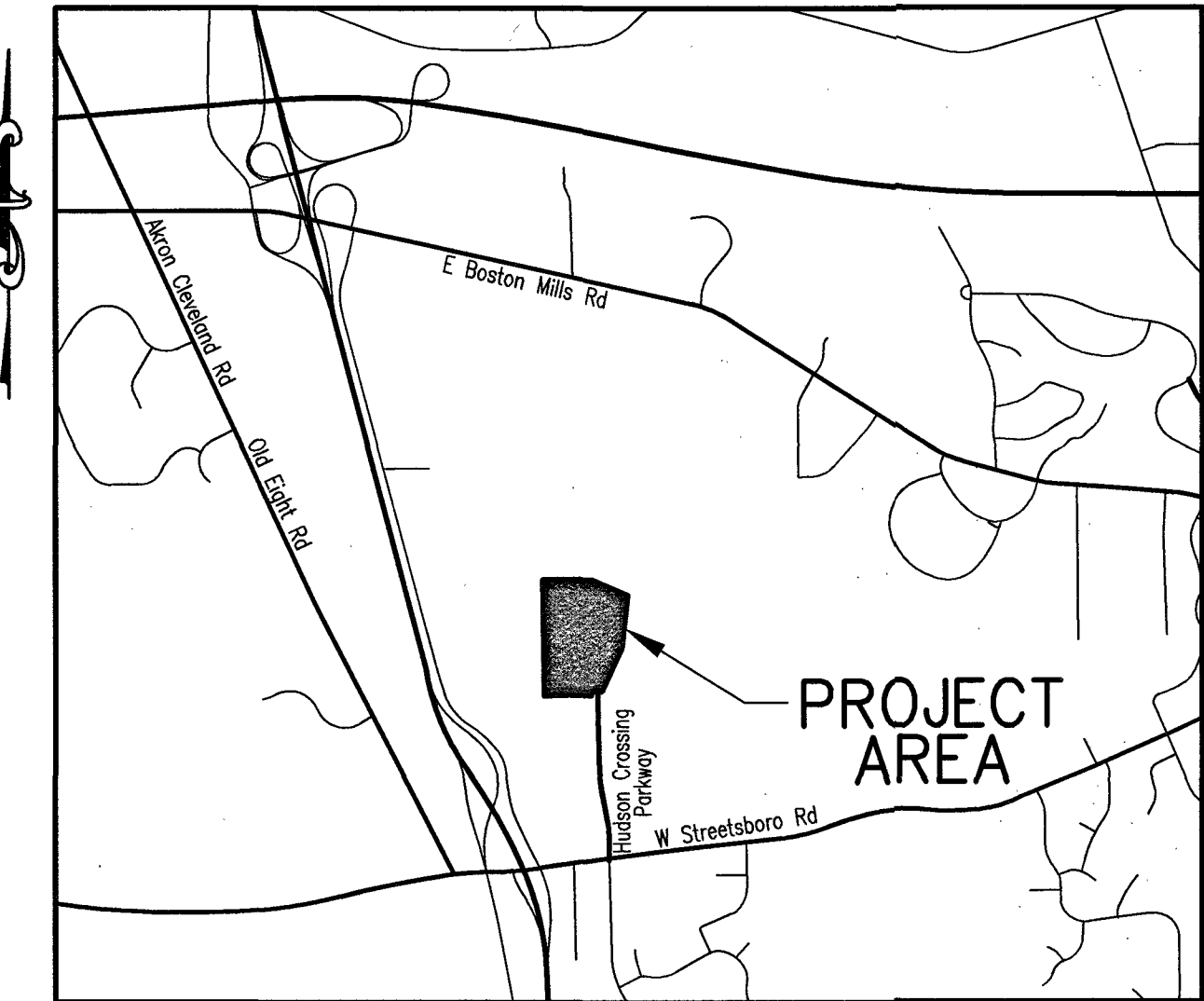
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5301 Grant Avenue
Cleveland, OH 44125
Phone: (216)341-1200

DAVISON SMITH CERTO
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WESTLAKE, OHIO 44145
TELEPHONE: 440.835.3957
FACSIMILE: 440.835.4042
MAIL: jcerto@dscarchitects.com

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22999 Forbes Road, Suite B Cleveland, Ohio 44146-5667
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JULY 2019

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C.15-C.17	STANDARD DETAILS & NOTES



VICINITY MAP
No Scale

Michael E. Henry
MICHAEL E. HENRY
Professional Engineer
STATE OF OHIO
No. 13521

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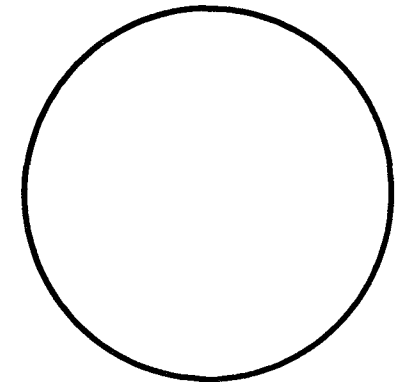
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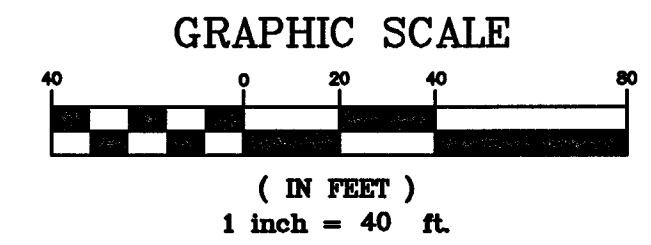
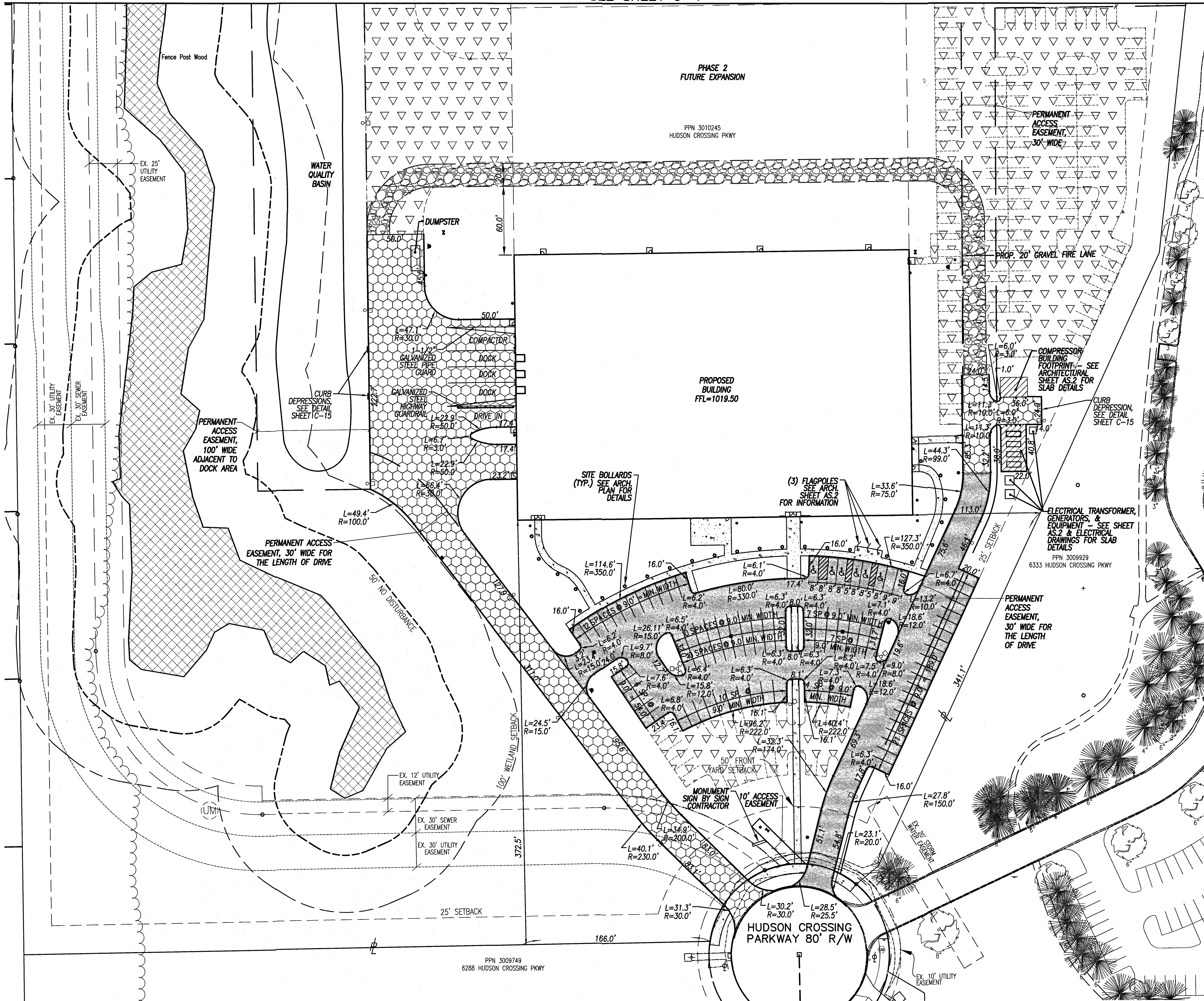
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FOR PERMIT July 18, 2019
CITY COMMENT RESPONSE
Aug 19, 2019

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Approved Date: _____
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MANNESCHI & BENEDETTI PROPERTIES, LLC
HUDSON INDUSTRIAL SITE
HUDSON CROSSING PARKWAY
HUDSON, OHIO
TITLE SHEET CIVIL PLAN SET



Developer Job Number:
Consultant Job Number:
17.056
Drawing Number:
C.1

FOR CONTINUATION
SEE SHEET C-4



INDEX OF SYMBOLS

- | | |
|-------------------------|-------------------------|
| ○ Iron Pin | ⊞ Catch Basin |
| + MAG Nail | ⊞ Downspout |
| ⊞ Cable Box | ⊞ Headwall |
| ⊞ Air Conditioning Unit | ⊞ Telephone Box |
| ⊞ Electric Box | ⊞ Telephone Box (OBT) |
| ⊞ Electric Box (CEI) | ⊞ Telephone Manhole |
| ⊞ Electric Manhole | ⊞ Water Gate Valve |
| ⊞ Electric Pull Box | ⊞ Hydrant |
| ⊞ Electric Vault | ⊞ Samese Hydrant |
| ⊞ Electric Meter | ⊞ Water Manhole |
| ⊞ Fiber Optic Box | ⊞ Sprinkler Control Box |
| ⊞ Gas Meter | ⊞ Water Valve Box |
| ⊞ Gas Manhole | ⊞ Utility Tone Marker |
| ⊞ Gas Stop Box | ⊞ Basketball Hoop |
| ⊞ Gas Valve Box | ⊞ Bollard |
| ⊞ Gas Vent Pipe | ⊞ Flagpole |
| ⊞ Unknown Manhole | ⊞ Light Pole |
| ⊞ Monitoring Well | ⊞ Utility Pole |
| ⊞ Sanitary Cleanout | ⊞ Sign |
| ○ Sewer Manhole | ⊞ Pullbox |
| | ⊞ Prop. Light Pole |

LEGEND

- | | |
|--|--|
| | PROPOSED CONCRETE WALK
SEE DETAIL SHEET C-15 |
| | FUTURE PAVEMENT |
| | PROPOSED HEAVY DUTY CONCRETE
PAVEMENT WITH INTEGRAL CURB
SEE DETAIL SHEET C-15 |
| | PROPOSED LIGHT DUTY CONCRETE
PAVEMENT WITH INTEGRAL CURB
SEE DETAIL SHEET C-15 |
| | PROPOSED GRAVEL FIRE LANE
SEE DETAIL SHEET C-15 |

NOTES:

- ALL PARKING SPACES WILL BE MINIMUM 9'-0" WIDTH X 19'-0" LENGTH, AS LABELED IN THE SITE PLAN.
- EXISTING CONCRETE CURB SHALL BE SAW CUT HORIZONTALLY TO PROVIDE 1 1/2" RAISE ABOVE EXISTING GUTTER LINE OF CONCRETE PAVEMENT.
- ALL DIMENSIONS ARE FROM FACE OF CURB, UNLESS OTHERWISE NOTED.

PARKING COUNT:

89 STANDARD SPACES
6 ADA SPACES
95 TOTAL SPACES
168 ADDITIONAL FUTURE SPACES

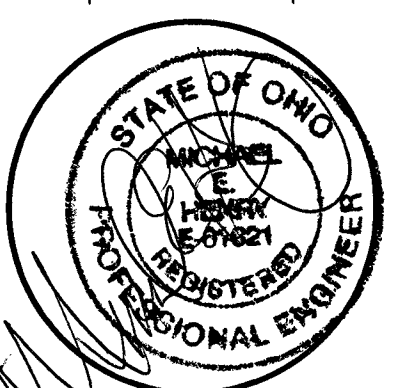
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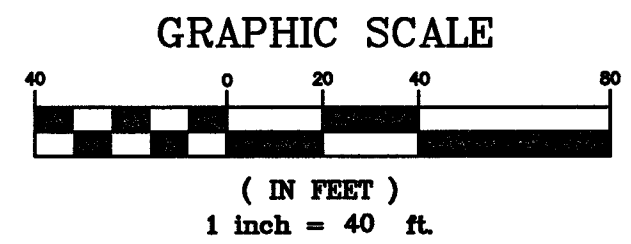
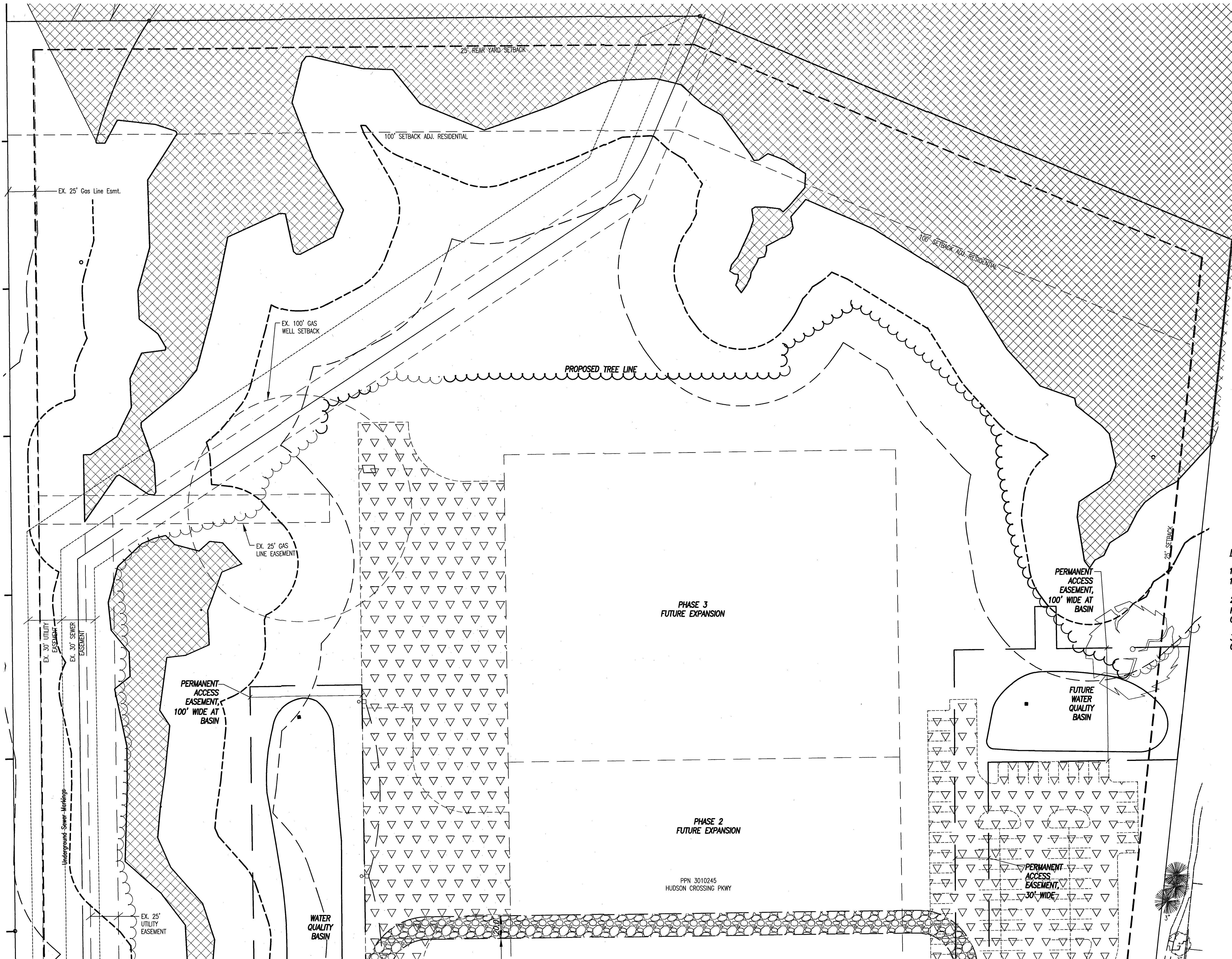
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MANNESCHI & BENEDETTI PROPERTIES, LLC
HUDSON INDUSTRIAL SITE
HUDSON CROSSING PARKWAY
HUDSON, OHIO
SITE PLAN



Developer Job Number:
Consultant Job Number:
Drawing Number:
17.056
C.3
3 Of 17 Sheets

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INDEX OF SYMBOLS

- | | |
|--|--|
| <ul style="list-style-type: none"> ○ Iron Pin + MAG Nail □ Cable Box □ Air Conditioning Unit □ Electric Box □ Electric Box (CEI) ⊗ Electric Manhole ⊗ Electric Pull Box ⊗ Electric Vault ⊗ Electric Meter ⊗ Fiber Optic Box ⊗ Gas Meter ⊗ Gas Manhole ⊗ Gas Stop Box ⊗ Gas Valve Box ⊗ Gas Vent Pipe ⊗ Unknown Manhole ⊗ Monitoring Well ⊗ Sanitary Cleanout ○ Sewer Manhole | <ul style="list-style-type: none"> ⊗ Catch Basin ⊗ Downspout ⊗ Headwall ⊗ Telephone Box ⊗ Telephone Box (OBT) ⊗ Telephone Manhole ⊗ Water Gate Valve ⊗ Hydrant ⊗ Siamese Hydrant ⊗ Water Manhole ⊗ Sprinkler Control Box ⊗ Water Valve Box ⊗ Utility Tone Marker ⊗ Basketball Hoop ⊗ Bollard ⊗ Flagpole ⊗ Light Pole ⊗ Utility Pole ⊗ Sign ⊗ Pullbox ⊗ Prop. Light Pole |
|--|--|

LEGEND

- | | |
|--|--|
| | PROPOSED CONCRETE WALK
SEE DETAIL SHEET C-15 |
| | FUTURE PAVEMENT |
| | PROPOSED HEAVY DUTY CONCRETE
PAVEMENT WITH INTEGRAL CURB
SEE DETAIL SHEET C-15 |
| | PROPOSED LIGHT DUTY CONCRETE
PAVEMENT WITH INTEGRAL CURB
SEE DETAIL SHEET C-15 |
| | PROPOSED GRAVEL FIRE LANE
SEE DETAIL SHEET C-15 |

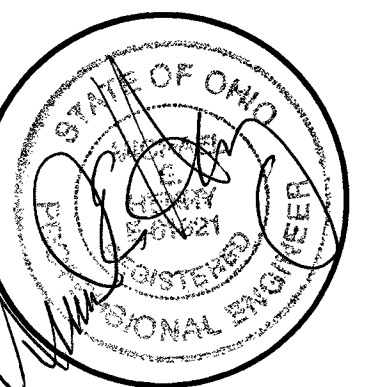
NOTES:

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PARKING COUNT:

89 STANDARD SPACES
6 ADA SPACES
95 TOTAL SPACES
168 ADDITIONAL FUTURE SPACES

FOR CONTINUATION
SEE SHEET C-3



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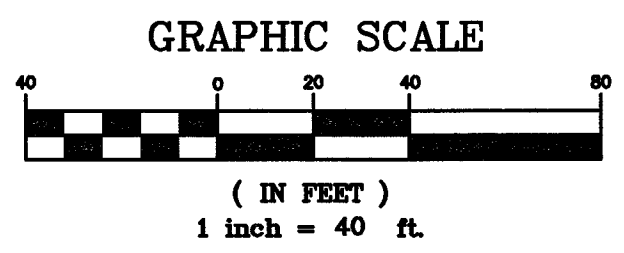
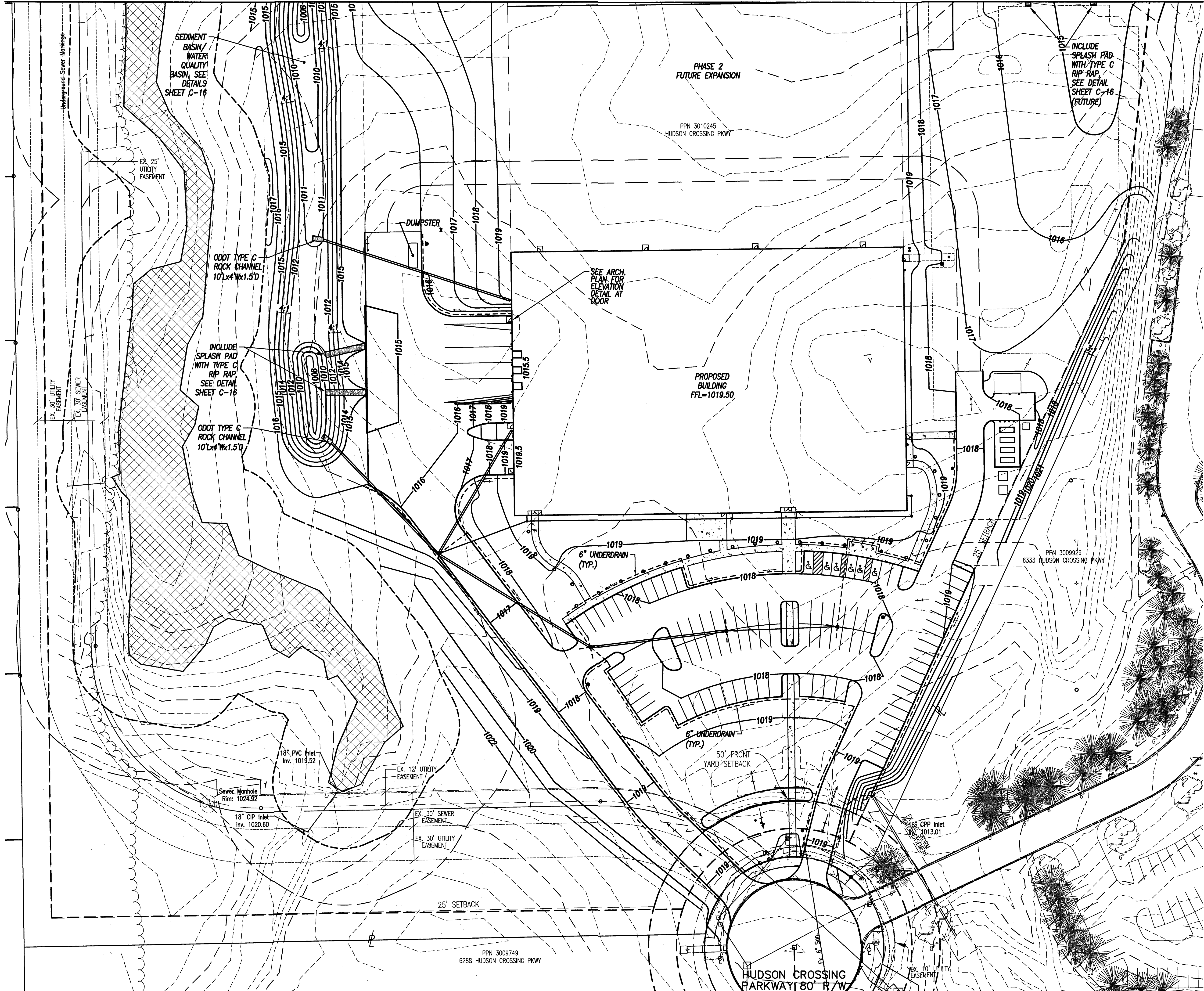
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Drawing Number:

C.4

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FOR CONTINUATION
SEE SHEET C-6



INDEX OF SYMBOLS

- | | |
|-------------------------|-------------------------|
| ○ Iron Pin | ⊞ Catch Basin |
| + MAG Nail | ● Downspout |
| ⊞ Cable Box | — Headwall |
| ⊞ Air Conditioning Unit | ⊞ Telephone Box |
| ⊞ Electric Box | ⊞ Telephone Box (OBT) |
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| ⊞ Unknown Manhole | ⊞ Light Pole |
| ⊞ Monitoring Well | ⊞ Utility Pole |
| ⊞ Sanitary Cleanout | ⊞ Sign |
| ○ Sewer Manhole | ⊞ Pullbox |

LEGEND

- | | |
|--------------|------------------------------------|
| --- 1012 --- | EXISTING CONTOUR
WITH ELEVATION |
| — 1012 — | PROPOSED CONTOUR
WITH ELEVATION |

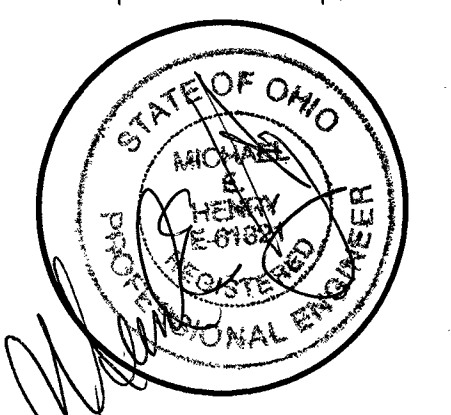
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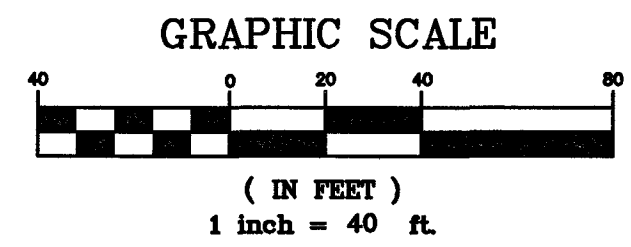
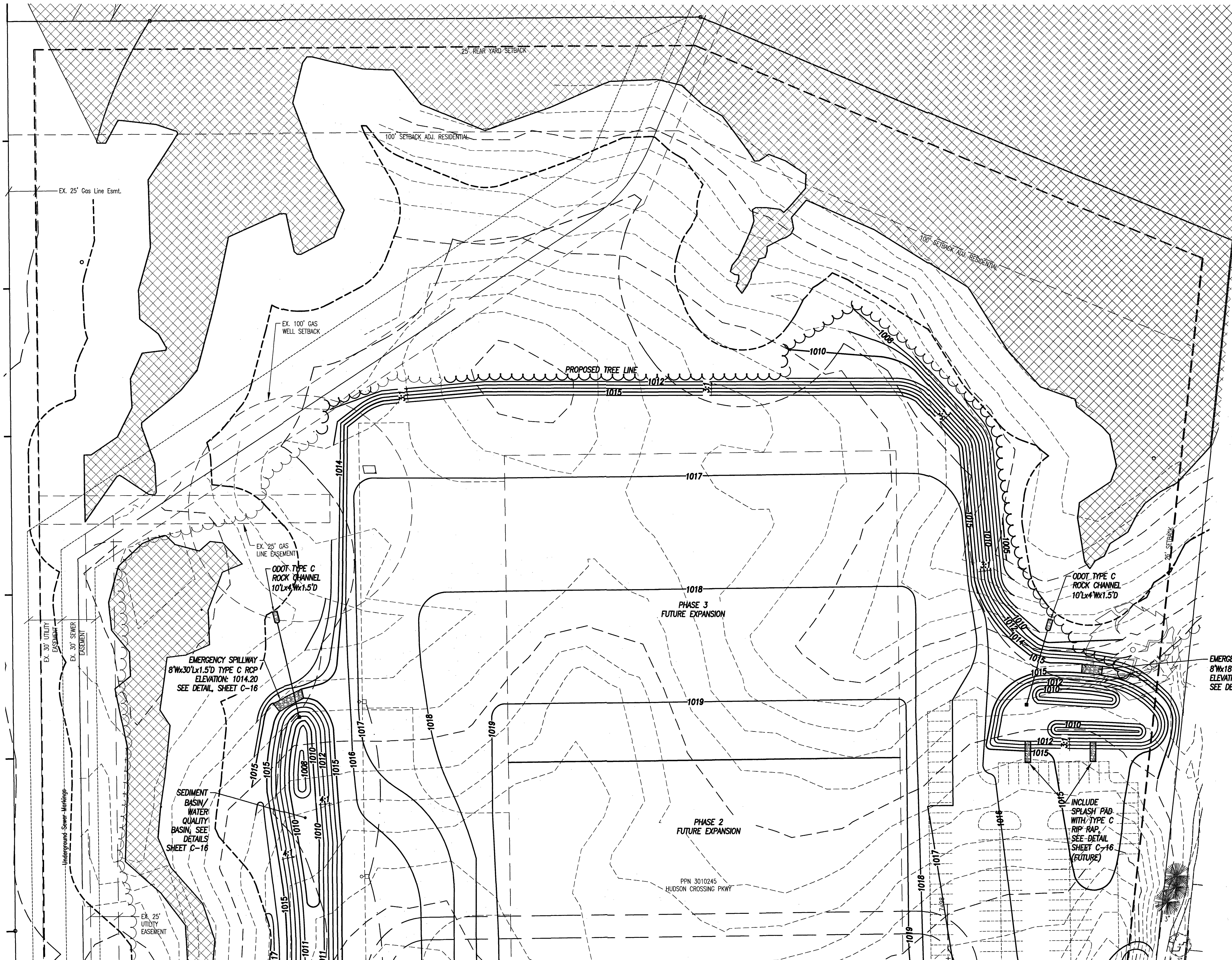
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HUDSON INDUSTRIAL SITE
HUDSON CROSSING PARKWAY
HUDSON, OHIO
GRADING PLAN



Developer Job Number:
Consultant Job Number:
Drawing Number:
17.056
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INDEX OF SYMBOLS

- | | |
|-------------------------|-------------------------|
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| + MAG Nail | ● Downspout |
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| ⊞ Monitoring Well | ⊞ Utility Pole |
| ⊞ Sanitary Cleanout | ⊞ Sign |
| ⊞ Sewer Manhole | ⊞ Pullbox |

LEGEND

- | | |
|--------------|---------------------------------|
| --- 1012 --- | EXISTING CONTOUR WITH ELEVATION |
| — 1012 — | PROPOSED CONTOUR WITH ELEVATION |

FOR CONTINUATION
SEE SHEET C-5

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Approved Date:
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HUDSON CROSSING PARKWAY
HUDSON, OHIO
GRADING PLAN



Developer Job Number:

Consultant Job Number:

Drawing Number:

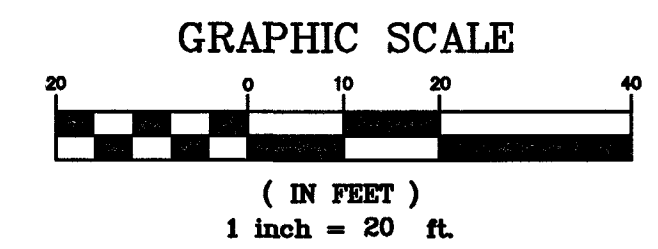
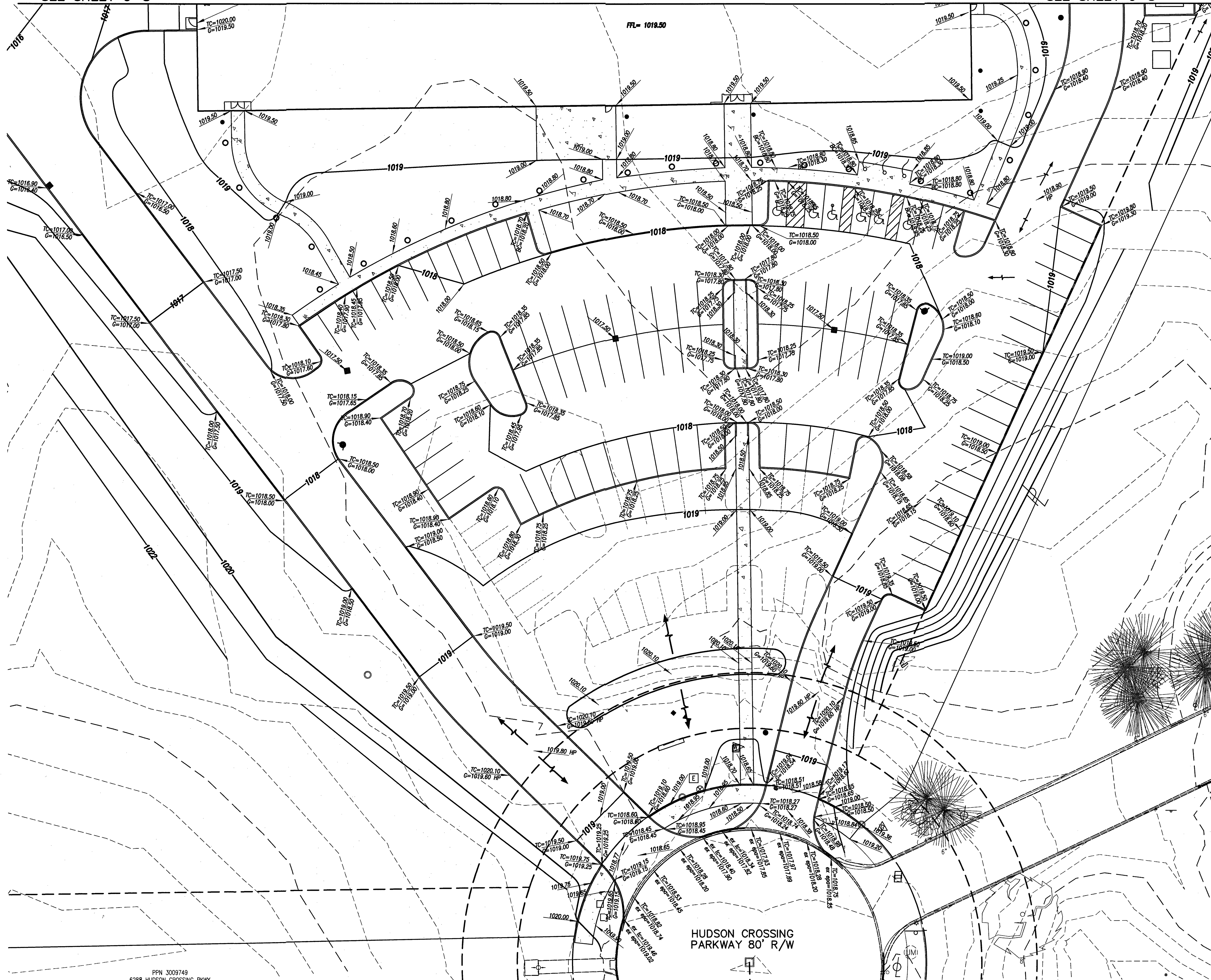
C.6

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FOR CONTINUATION
SEE SHEET C-8

FOR CONTINUATION
SEE SHEET C-8



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- | | |
|-------------------------|-------------------------|
| ○ Iron Pin | ⊞ Catch Basin |
| + MAG Nail | ● Downspout |
| ⊞ Cable Box | ⌒ Headwall |
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| ⊞ Gas Stop Box | ⊞ Basketball Hoop |
| ⊞ Gas Valve Box | ⊞ Bollard |
| ⊞ Gas Vent Pipe | ⊞ Flagpole |
| ⊞ Unknown Manhole | ⊞ Light Pole |
| ⊞ Monitoring Well | ⊞ Utility Pole |
| ⊞ Sanitary Cleanout | ⊞ Sign |
| ○ Sewer Manhole | ⊞ Pullbox |

LEGEND

- | | |
|-------------------------|---|
| --- 1012 | EXISTING CONTOUR
WITH ELEVATION |
| --- 1012 | PROPOSED CONTOUR
WITH ELEVATION |
| ⊞ 1012.80P
1012.50TC | PROPOSED SPOT ELEVATION
TP = TOP OF PAVEMENT
TC = TOP OF CURB |

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Aug 19, 2019

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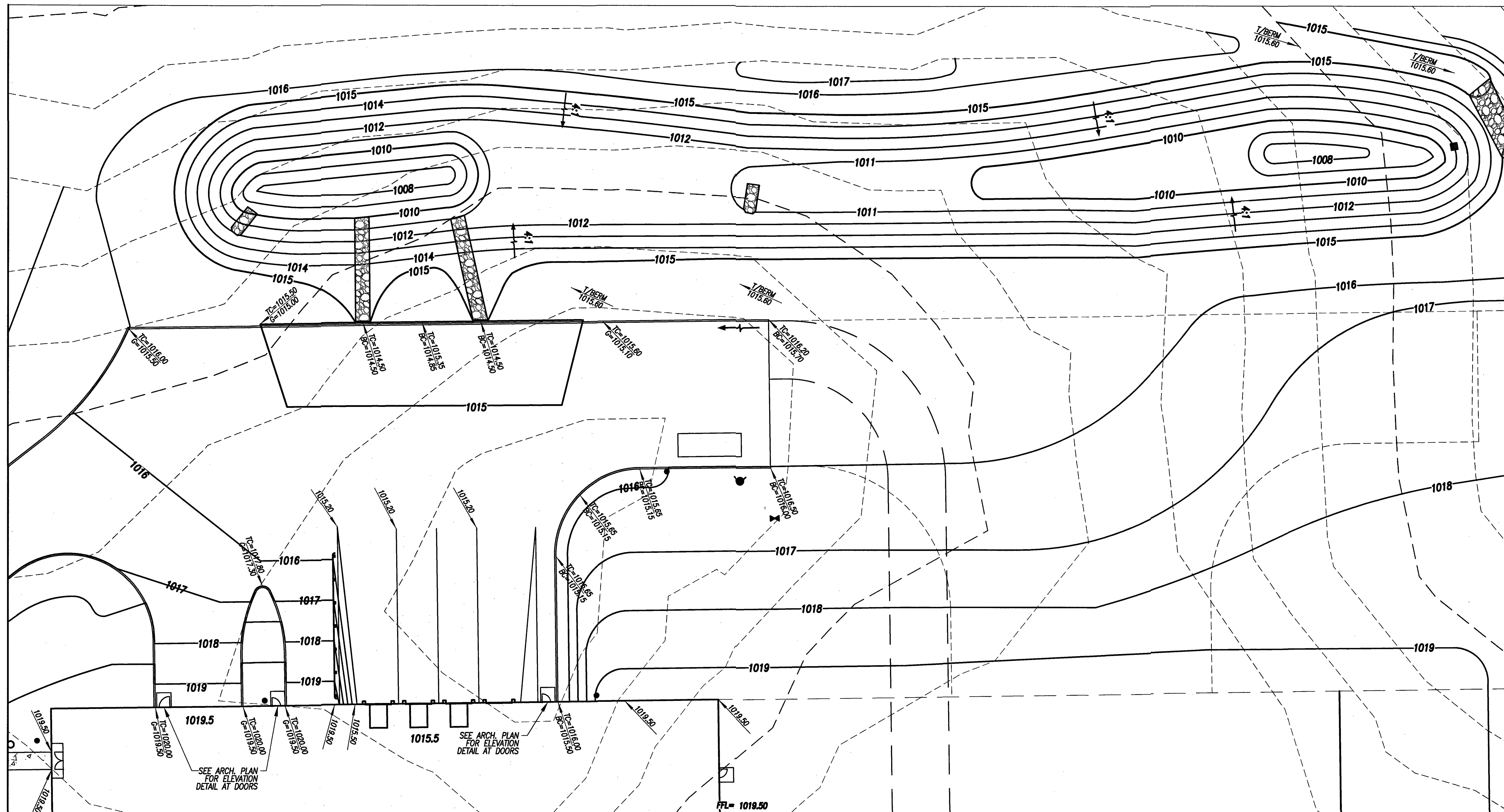
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HUDSON CROSSING PARKWAY
HUDSON, OHIO
GRADING PLAN



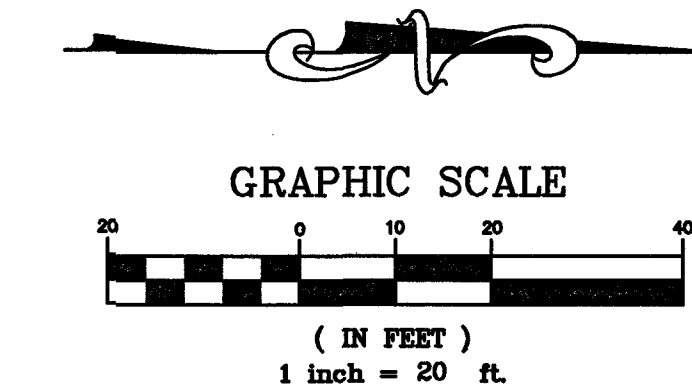
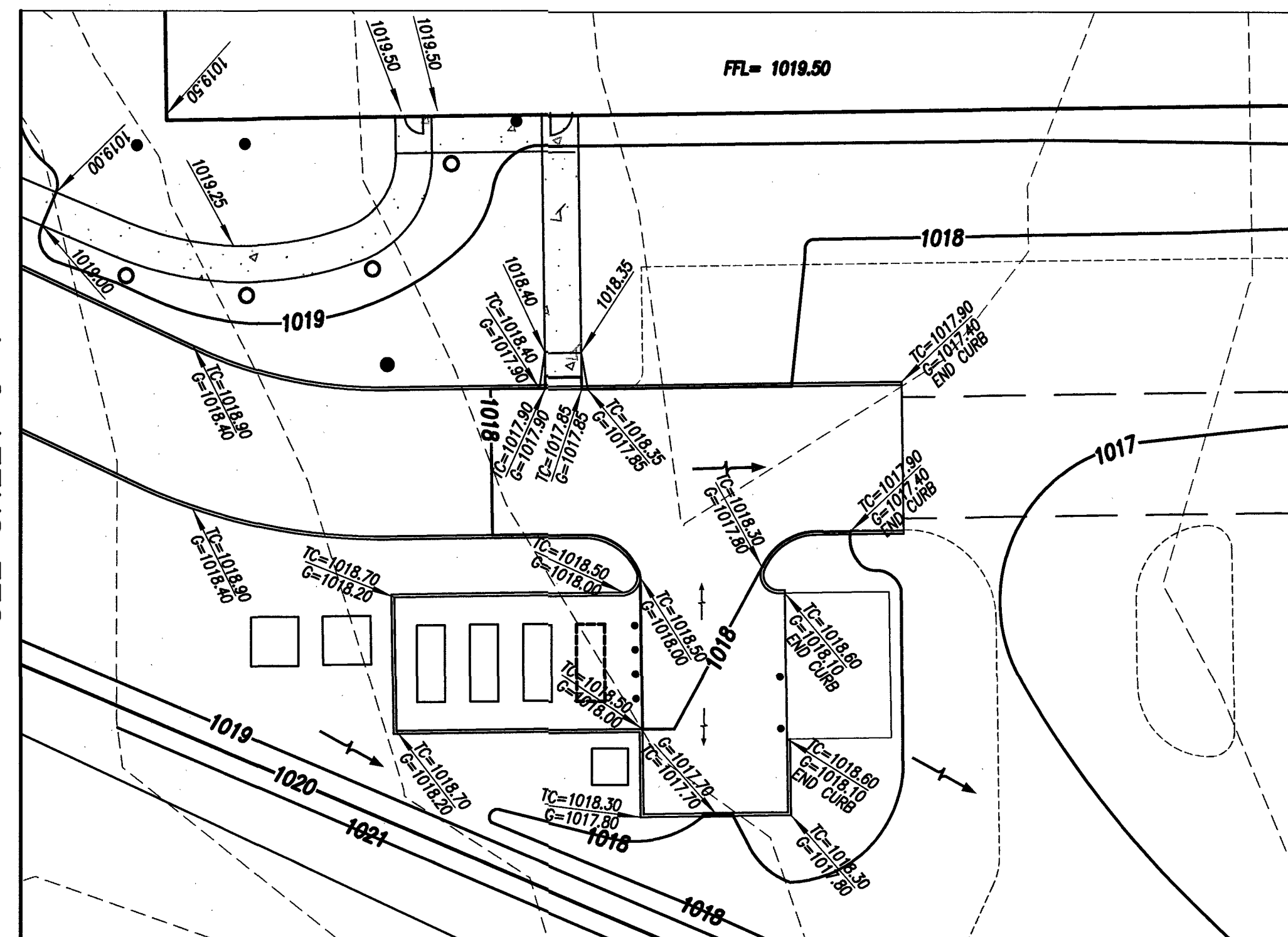
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Drawing Number: C.7
7 Of 17 Sheets

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FOR CONTINUATION
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FOR CONTINUATION
SEE SHEET C-7



INDEX OF SYMBOLS

- | | |
|-------------------------|-------------------------|
| ○ Iron Pin | ☐ Catch Basin |
| ✚ MAG Nail | ● Downspout |
| ☐ Cable Box | ☐ Headwall |
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| ☐ Electric Pull Box | ☐ Hydrant |
| ☐ Electric Vault | ☐ Siamese Hydrant |
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| ☐ Gas Meter | ☐ Water Valve Box |
| ☐ Gas Manhole | ☐ Utility Tone Marker |
| ☐ Gas Stop Box | ☐ Basketball Hoop |
| ☐ Gas Valve Box | ☐ Bollard |
| ☐ Gas Vent Pipe | ☐ Flagpole |
| ☐ Unknown Manhole | ☐ Light Pole |
| ☐ Monitoring Well | ☐ Utility Pole |
| ☐ Sanitary Cleanout | ☐ Sign |
| ☐ Sewer Manhole | ☐ Pullbox |

LEGEND

- | | |
|---------------|---|
| --- 1012 --- | EXISTING CONTOUR
WITH ELEVATION |
| — 1012 — | PROPOSED CONTOUR
WITH ELEVATION |
| 1012.20
TP | PROPOSED SPOT ELEVATION
TP = TOP OF PAVEMENT
TC = TOP OF CURB |
| 1012.20
TC | |

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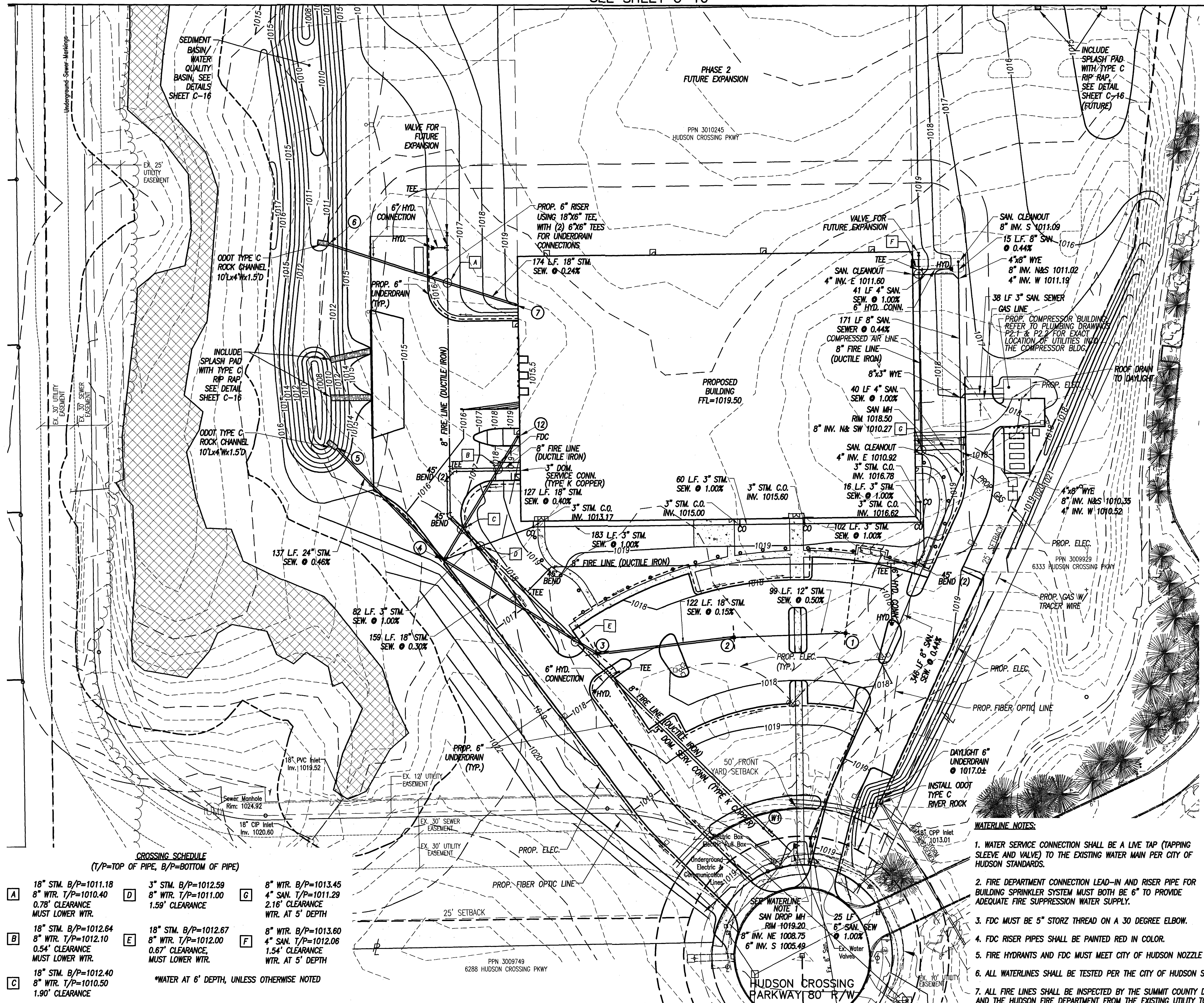
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MANNESCHI & BENEDETTI PROPERTIES, LLC
HUDSON INDUSTRIAL SITE
HUDSON CROSSING PARKWAY
HUDSON, OHIO
GRADING PLAN



Developer Job Number:
Consultant Job Number:
17.056
Drawing Number:
C.8
8 Of 17 Sheets

FOR CONTINUATION
SEE SHEET C-10



(IN FEET)
1 inch = 40 ft.

INDEX OF SYMBOLS

- Iron Pin
- + MAG Nail
- Cable Box
- Air Conditioning Unit
- Electric Box
- Electric Box (CEI)
- ⊗ Electric Manhole
- Electric Pull Box
- ☑ Electric Vault
- Electric Meter
- Fiber Optic Box
- Gas Meter
- ⊗ Gas Manhole
- △ Gas Stop Box
- △ Gas Valve Box
- ⌒ Gas Vent Pipe
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- ⊗ Monitoring Well
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- ⌒ Hydrant
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- Sprinkler Control Box
- Water Valve Box
- ⌒ Utility Tone Marker
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- Bollard
- ⌒ Flagpole
- ⌒ Light Pole
- ⌒ Utility Pole
- Sign
- Pullbox
- ⌒ Prop. Light Pole

LEGEND

- 1012 — **EXISTING CONTOUR
WITH ELEVATION**
- 1012 — **PROPOSED CONTOUR
WITH ELEVATION**

PIPE SPECIFICATIONS

STORM: "HDPE" - HDPE PIPE PER ASTM F2764 AND ODOT
ITEM 707.33

SANITARY: "PVC" - SDR 35 D-3034 PVC WITH ASTM D-3212
PREMIUM JOINTS

WATER MAINS:

8" FIRE LINE: "D.I." - DUCTILE IRON, CLASS 52
3" DOM. SERV. CONN.: "T.K.C." - TYPE K COPPER
4" DRY LINE: "D.I." - DUCTILE IRON, CLASS 52

STORM STRUCTURE SCHEDULE

NO.	TYPE	GRATE (RIM)	INVERT
1	2-2-C INLET	1017.50	12" W 1013.50
2	2-2-C INLET	1017.50	12" E 1013.00 18" W 1013.00
3	2-2-C INLET	1017.50	18" E&NW 1012.82
4	72" STM. MH EJ 1700 TYPE M OPEN GRATE	1016.80	18" SE 1012.35 18" NE 1012.35 24" NW 1012.35 6" NE&SW 1014.13 3" NE 1012.35
5	HW-2.1		24" SE 1011.72
6	HW-2.1		18" E 1011.00
7	48" STM. MH	1019.40	12" E 1013.00 18" W 1011.42
8	2-3 OUTLET STRUCTURE SEE SHEET C-16	1014.00	18" N 1011.00 2.6" S 1011.00
9	HW-2.1		18" S 1010.57
10	2-3 OUTLET STRUCTURE SEE SHEET C-16	1014.25	15" N 1012.00 1.8" S 1012.00
11	HW-2.1		15" S 1008.98
12	48" STM. MH	1019.40	15" E 1013.00 18" SW 1012.86
W1	8" RESILIENT 3" DOMESTIC	SEAT GATE/BOX COPPER LINE SHUTOFF VALVE/BOX	VALVE (INSERTA-VALVE)

WATERLINE NOTES:

1. WATER SERVICE CONNECTION SHALL BE A LIVE TAP (TAPPING SLEEVE AND VALVE) TO THE EXISTING WATER MAIN PER CITY OF HUDSON STANDARDS.
2. FIRE DEPARTMENT CONNECTION LEAD-IN AND RISER PIPE FOR BUILDING SPRINKLER SYSTEM MUST BOTH BE 6" TO PROVIDE ADEQUATE FIRE SUPPRESSION WATER SUPPLY.
3. FDC MUST BE 5" STORZ THREAD ON A 30 DEGREE ELBOW.
4. FDC RISER PIPES SHALL BE PAINTED RED IN COLOR.
5. FIRE HYDRANTS AND FDC MUST MEET CITY OF HUDSON NOZZLE THREAD SPECIFICATIONS.
6. ALL WATERLINES SHALL BE TESTED PER THE CITY OF HUDSON STANDARDS.
7. ALL FIRE LINES SHALL BE INSPECTED BY THE SUMMIT COUNTY DEPT. OF BUILDING STANDARDS AND THE HUDSON FIRE DEPARTMENT FROM THE EXISTING UTILITY TO THE BUILDING.

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FAX/SIMILE: 440.835.404;
Internet: dscarchitects.com



CVE

**CHAGRIN VALLEY
ENGINEERING, LTD.**

99 FORBES ROAD, SUITE B PHONE (440) 439-1999
CLEVELAND, OHIO 44146 FAX: (440) 439-1969

Date:
FOR PERMIT July 18, 2019
CITY COMMENT RESPONSE
Aug 19, 2019

Approved By: _____

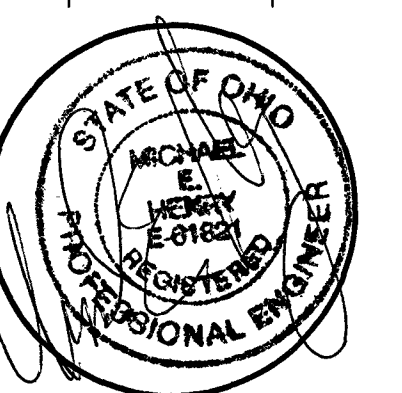
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AS SHOWN

ON INDUSTRIAL SITE
I CROSSING PARKWAY
HUDSON, OHIO

UTILITY PLAN

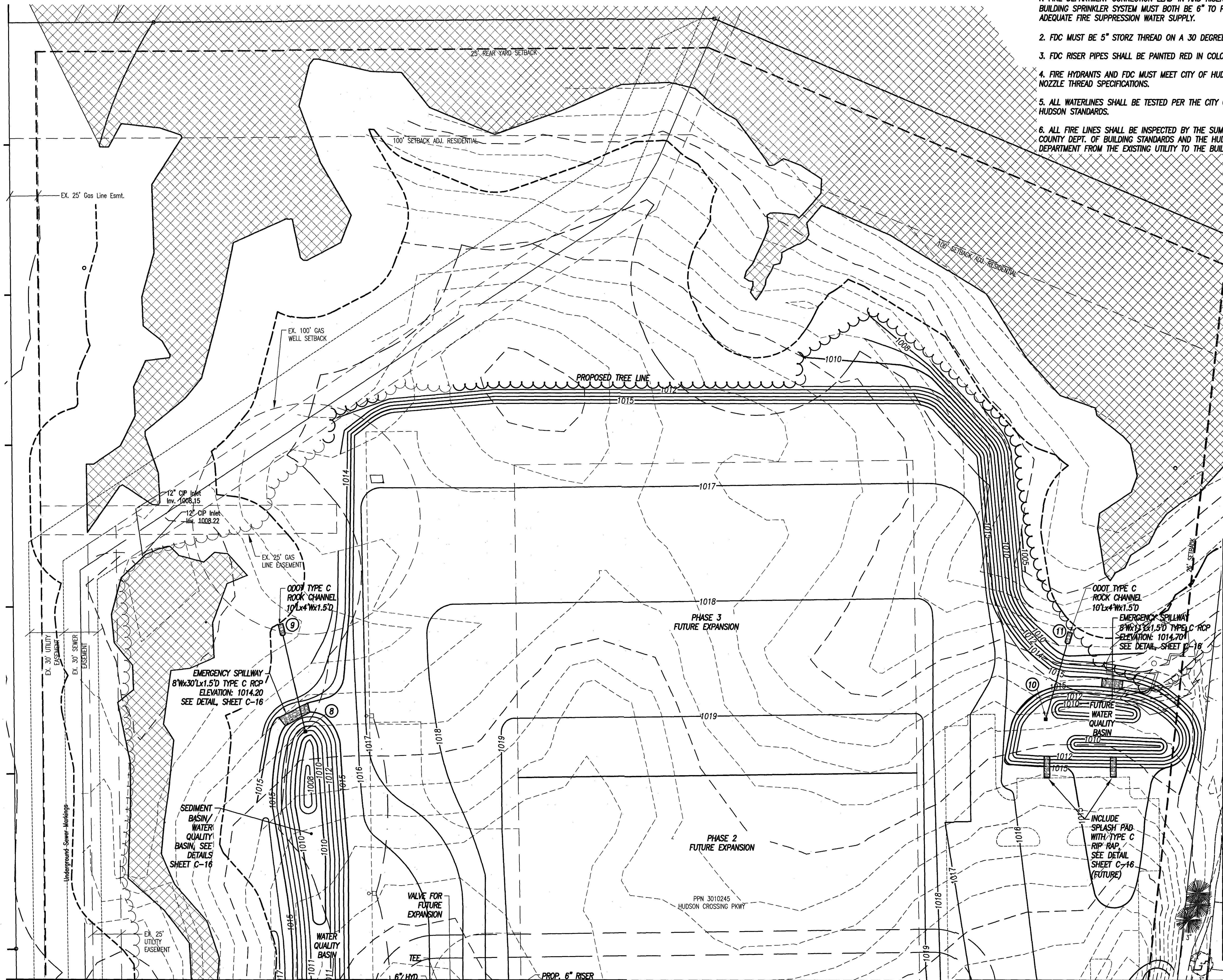


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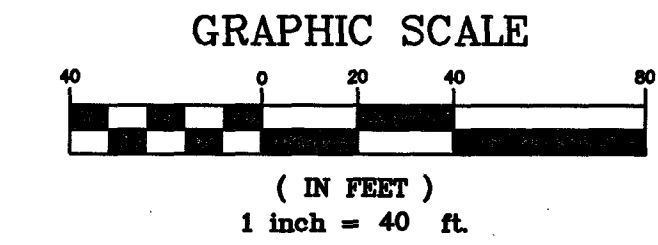
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WATERLINE NOTES:

1. FIRE DEPARTMENT CONNECTION LEAD-IN AND RISER PIPE FOR BUILDING SPRINKLER SYSTEM MUST BOTH BE 6" TO PROVIDE ADEQUATE FIRE SUPPRESSION WATER SUPPLY.
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6. ALL FIRE LINES SHALL BE INSPECTED BY THE SUMMIT COUNTY DEPT. OF BUILDING STANDARDS AND THE HUDSON FIRE DEPARTMENT FROM THE EXISTING UTILITY TO THE BUILDING.



INDEX OF SYMBOLS

- | | |
|-----------------------|-----------------------|
| Iron Pin | Catch Basin |
| MAG Nail | Downspout |
| Cable Box | Headwall |
| Air Conditioning Unit | Telephone Box |
| Electric Box | Telephone Box (OBT) |
| Electric Box (CE) | Telephone Manhole |
| Electric Manhole | Water Gate Valve |
| Electric Pull Box | Hydrant |
| Electric Vault | Siamese Hydrant |
| Electric Meter | Water Manhole |
| Fiber Optic Box | Sprinkler Control Box |
| Gas Meter | Water Valve Box |
| Gas Manhole | Utility Tone Marker |
| Gas Stop Box | Basketball Hoop |
| Gas Valve Box | Bollard |
| Gas Vent Pipe | Flagpole |
| Unknown Manhole | Light Pole |
| Monitoring Well | Utility Pole |
| Sanitary Cleanout | Sign |
| Sewer Manhole | Pullbox |
| | Prop. Light Pole |

LEGEND

- 1012 --- EXISTING CONTOUR WITH ELEVATION
- 1012 --- PROPOSED CONTOUR WITH ELEVATION

PIPE SPECIFICATIONS

STORM: "HDPE" - HDPE PIPE PER ASTM F2764 AND ODOT ITEM 707.33

SANITARY: "PVC" - SDR 35 D-3034 PVC WITH ASTM D-3212 PREMIUM JOINTS

WATER MAINS:

8" FIRE LINE: "D.I." - DUCTILE IRON, CLASS 52

3" DOM. SERV. CONN.: "T.K.C." - TYPE K COPPER

4" DRY LINE: "D.I." - DUCTILE IRON, CLASS 52

STORM STRUCTURE SCHEDULE

NO.	TYPE	GRATE (RIM)	INVERT
1	2-2-C INLET	1017.50	12" W 1013.50
2	2-2-C INLET	1017.50	12" E 1013.00
			18" W 1013.00
3	2-2-C INLET	1017.50	18" E&NW 1012.82
4	72" STM. MH	1016.80	18" SE 1012.35
	EJ 1700		18" NE 1012.35
	TYPE M		24" NW 1012.35
	OPEN GRATE		6" NE&SW
			3" NE 1012.35
5	HW-2.1		24" SE 1011.72
6	HW-2.1		18" E 1011.00
7	HW-2.1		18" E 1011.00
8	2-3 OUTLET	1013.50	18" N 1011.00
	STRUCTURE		2.6" S 1011.00
	SEE SHEET C-16		
9	HW-2.1		18" S 1010.57
10	2-3 OUTLET	1014.00	15" N 1012.00
	STRUCTURE		1.8" S 1012.00
	SEE SHEET C-16		
11	HW-2.1		15" S 1008.98
12	48" STM. MH	1019.40	15" E 1013.00
			18" W 1011.42
13	48" STM. MH	1019.40	12" E 1013.00
			18" W 1011.42
14	48" STM. MH	1019.40	15" E 1013.00
			18" SW 1012.93

FOR CONTINUATION
SEE SHEET C-9

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TELEPHONE: 440.835.395
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dsmith@dsarchitects.com

CHAGRIN VALLEY ENGINEERING, LTD.
22900 FORBES ROAD, SUITE B
CLEVELAND, OHIO 44148
PHONE (440) 439-1000
FAX (440) 439-1009

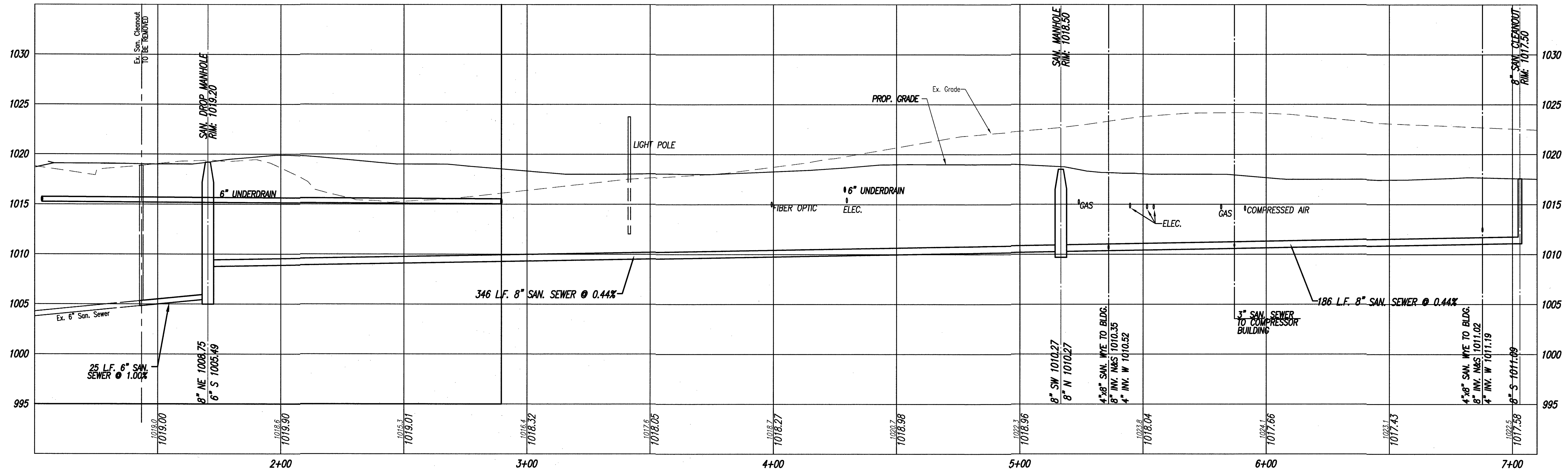
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CITY COMMENT RESPONSE
Aug 19, 2019

Approved By:
Approved Date:
Scale: AS SHOWN

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HUDSON INDUSTRIAL SITE
HUDSON CROSSING PARKWAY
HUDSON, OHIO
UTILITY PLAN

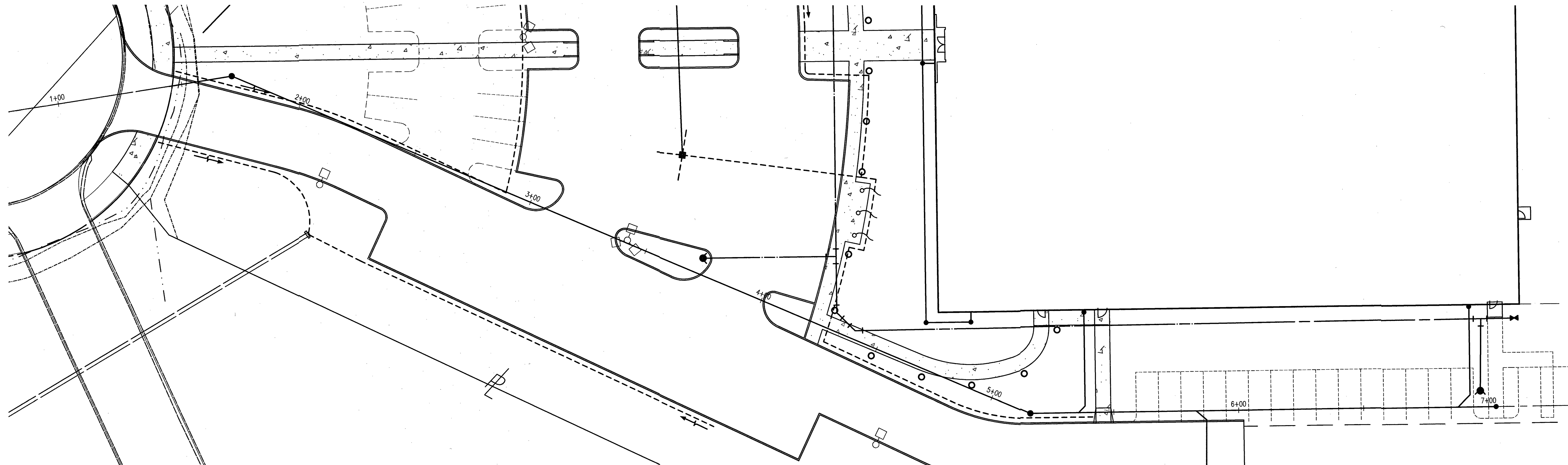


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C.10
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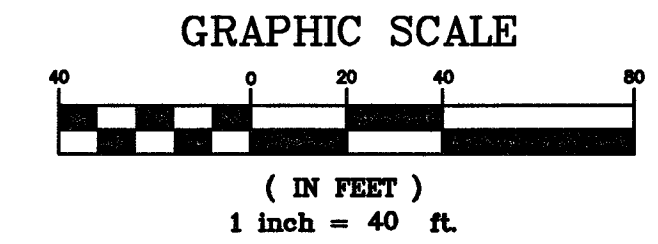
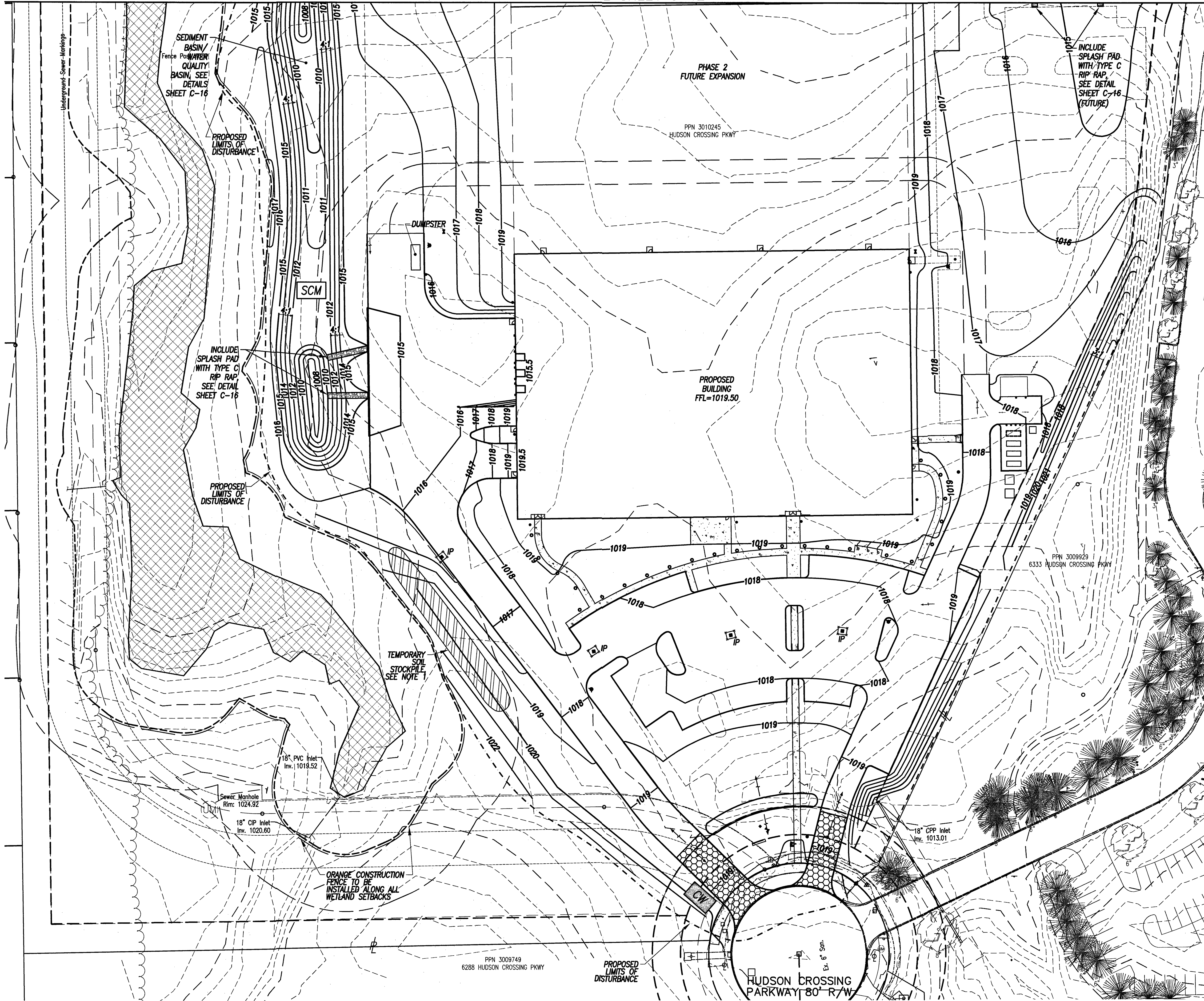


PROPOSED SANITARY SEWER PROFILE

SCALE: 1"=20' HORIZONTAL
1"=5' VERTICAL



FOR CONTINUATION
SEE SHEET C-12



INDEX OF SYMBOLS

- | | |
|-------------------------|-------------------------|
| ○ Iron Pin | ☐ Catch Basin |
| + MAG Nail | ● Downspout |
| ☐ Cable Box | — Headwall |
| ☐ Air Conditioning Unit | ☐ Telephone Box |
| ☐ Electric Box | ☐ Telephone Box (OBT) |
| ☐ Electric Box (CEI) | ☐ Telephone Manhole |
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| ⊗ Electric Pull Box | ⊗ Hydrant |
| ⊗ Electric Vault | ⊗ Siamese Hydrant |
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| ⊗ Gas Meter | ⊗ Water Valve Box |
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| ⊗ Unknown Manhole | ⊗ Light Pole |
| ⊗ Monitoring Well | ⊗ Utility Pole |
| ⊗ Sanitary Cleanout | ⊗ Sign |
| ⊗ Sewer Manhole | ⊗ Pullbox |

STORMWATER POLLUTION PREVENTION LEGEND

- | | |
|-------------|---|
| — x — x — | SILT PROTECTION |
| — — — — — | ORANGE CONSTRUCTION FENCE |
| - - - - - | LIMITS OF DISTURBANCE |
| ☐ IP | "DANDY SACK" OR EQUAL, SEE DETAIL - YARD DRAIN INLET PROTECTION |
| ☐ (hatched) | STABILIZED CONSTRUCTION ENTRANCE (MIN. 70' LENGTH) |
| ☐ CW | CONCRETE WASHOUT |
| ☐ SCM | STORMWATER CONTROL MEASURES |

- NOTES:
1. EXCESS SOIL STOCKPILES THAT WILL NOT BE USED ON THE SITE MUST BE REMOVED WITHIN 48 HOURS.

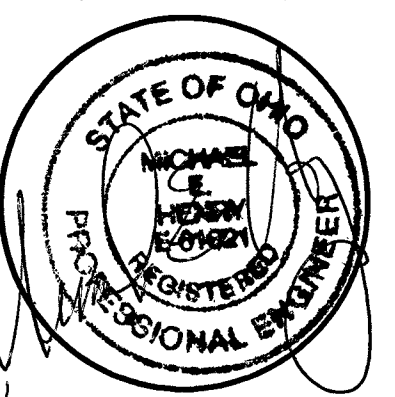
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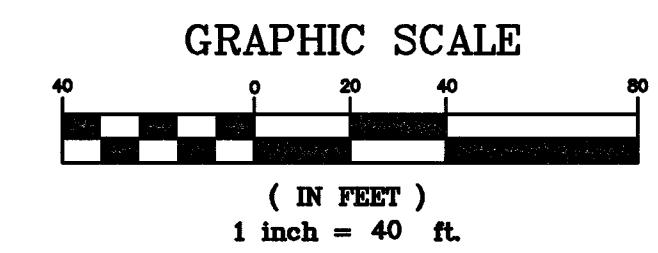
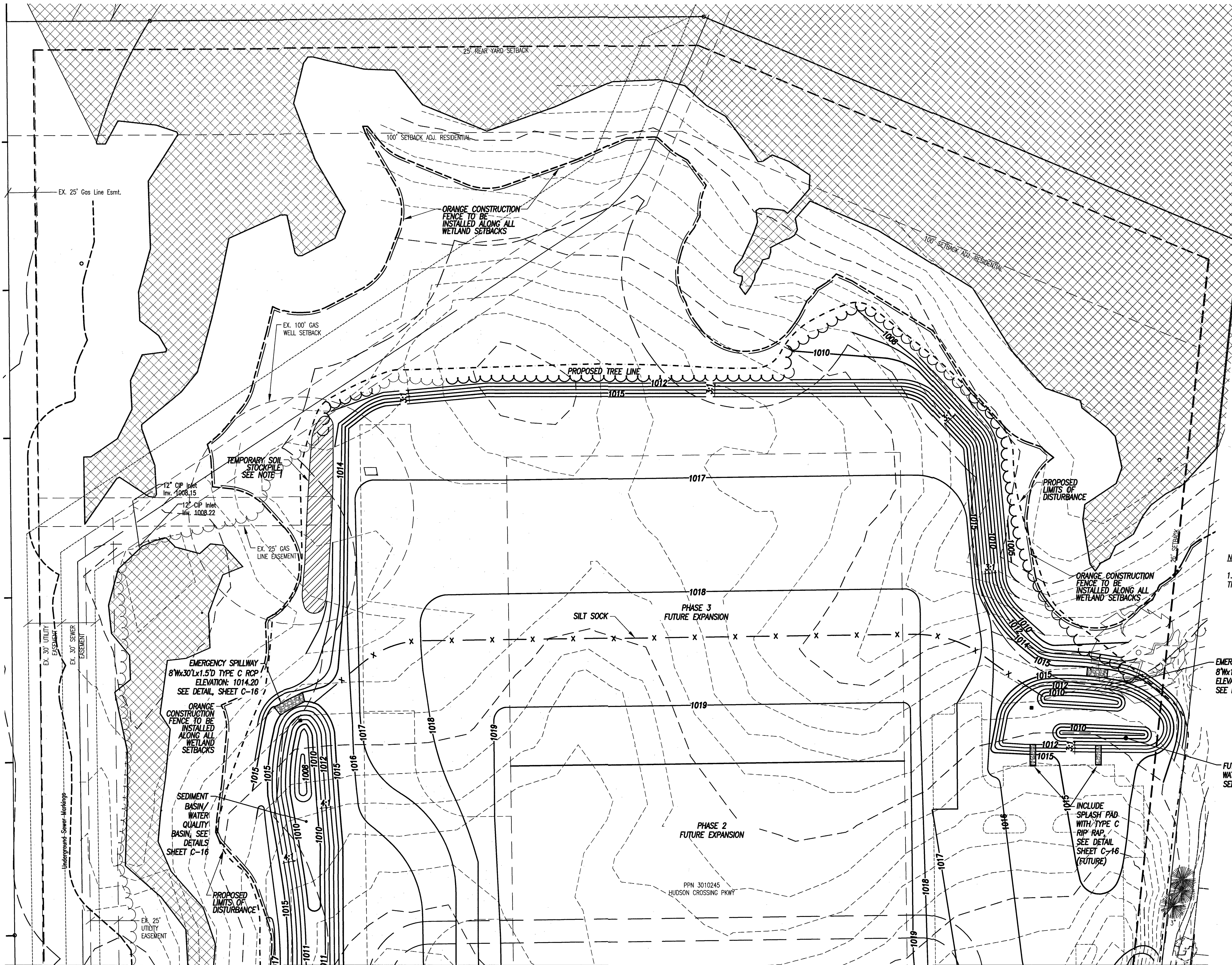
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HUDSON, OHIO
STORMWATER POLLUTION PREVENTION PLAN
Approved By: AS SHOWN
Approved Date:
Scale:



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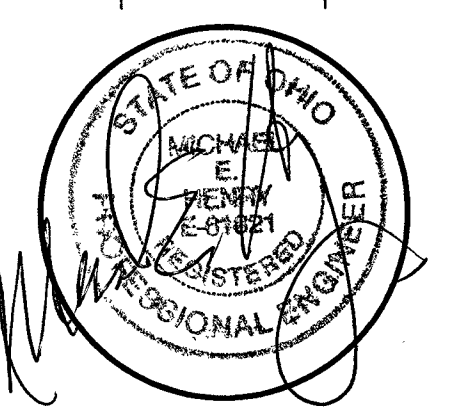
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NOTES:
1. EXCESS SOIL STOCKPILES THAT WILL NOT BE USED ON THE SITE MUST BE REMOVED WITHIN 48 HOURS.

FOR CONTINUATION
SEE SHEET C-11



SITE DESCRIPTION FOR 6336 HUDSON CROSSING PARKWAY

1. DESCRIPTION OF THE NATURE AND TYPE OF THE CONSTRUCTION ACTIVITY:

- A. PROJECT NAME & LOCATION:
6336 HUDSON CROSSING PARKWAY
CITY OF HUDSON, COUNTY OF SUMMIT, STATE OF OHIO
- B. NAME & CONTACT INFORMATION OF OWNER AND GENERAL CONTRACTOR (IF KNOWN):
PREMIER DEVELOPMENT PARTNERS
JERRY GRUSZEWSKI
5301 GRANT AVENUE
CLEVELAND, OHIO 44125
(216) 341-1200
JERRY@PREMIERDEVELOP.COM
- C. OHIO ENVIRONMENTAL PROTECTION AGENCY FACILITY PERMIT # (IF APPLICABLE): 3GC10639*AG
- D. THE PROJECT WILL CONSIST OF:
PROPOSED CONSTRUCTION OF A BUILDING, STANDARD AND HEAVY-DUTY CONCRETE PARKING WITH TRUCK DOCKS AND PROPOSED GRAVEL FIRE LANE
- E. TOTAL AREA OF THE SITE/PHASE: SITE 32.18 ACRES
- F. AREA THAT IS EXPECTED TO BE DISTURBED (INCLUDING OFF-SITE BORROW AREAS): 10.10 ACRES
- G. ESTIMATED TOTAL AMOUNT OF IMPERVIOUS SURFACES THAT WILL RESULT: 4.56 ACRES
- H. ESTIMATED PERCENT OF THE TOTAL SITE TO BE COVERED BY IMPERVIOUS SURFACES: 14%
- I. ESTIMATED START DATE 09-01-2019
ESTIMATED COMPLETION DATE 12-31-2019
- J. NAME & CONTACT INFORMATION OF PROJECT ENGINEER:
CHAGRIN VALLEY ENGINEERING
(440) 439-1999

2. EXISTING DATA DESCRIBING THE SOIL:

SOIL TYPE	% OF THE SITE
A. Ca	4.1% - CANADICE SILTY CLAY LOAM
B. Ccb	71.5% - CANADEA SILT LOAM
C. GbB	13.5% - GEEBURG SILT LOAM, 2 TO 6 PERCENT SLOPES
D. GbC2	3.1% - GEEBURG SILT LOAM
E. Ln	3.1% - LORAIN SILTY CLAY LOAM
F. Wt	4.8% - WILLETE MUCK

3. DESCRIPTION OF THE QUALITY OF ANY KNOWN POLLUTANT DISCHARGE FROM THE SITE SUCH AS THAT WHICH MAY RESULT FROM PREVIOUS CONTAMINATION CAUSED BY PRIOR LAND USES:

NO KNOWN POLLUTANTS

4. DESCRIPTION OF PRIOR LAND USES AT THE SITE:

UNDEVELOPED

5. NAME OF THE IMMEDIATE RECEIVING STREAM OR SURFACE WATER(S) AND THE FIRST SUBSEQUENT RECEIVING WATER(S):

UN-NAMED TRIBUTARY TO MUD BROOK

6. DESCRIPTION OF WETLANDS OR OTHER SPECIAL AQUATIC SITES THAT WILL BE DISTURBED OR WHICH WILL RECEIVE DISCHARGES FROM DISTURBED AREAS:

SITE DISCHARGES TO EXISTING WETLAND THAT WILL REMAIN UNDISTURBED

7. DESCRIPTION OF STORM WATER DISCHARGES ASSOCIATED WITH DEDICATED ASPHALT AND DEDICATED CONCRETE PLANTS, AND THE BEST MANAGEMENT PRACTICES TO ADDRESS POLLUTANTS IN THESE STORM WATER DISCHARGES:

NONE

8. SCHEDULE DESCRIBING THE SEQUENCE OF MAJOR SOIL DISTURBING OPERATIONS AND THE IMPLEMENTATION OF SCMS TO CONTROL EROSION, SEDIMENT, AND NON-SEDIMENT POLLUTANTS.

SEE CONSTRUCTION SCHEDULE-THIS SHEET

GENERAL NOTES FOR SEDIMENT POLLUTANT CONTROLS

1. PERIMETER SEDIMENT CONTROLS (I.E. SEDIMENT TRAPS, SILT FENCE, COMPOST SOCKS, COMPOST BERMS, ETC...) SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN (7) DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPSLOPE AREAS DRAINING TO THEM ARE PERMANENTLY STABILIZED, OR AS DIRECTED BY THE HUDSON CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE.
2. NO EROSION AND SEDIMENT CONTROL BMPS SHALL BE REMOVED FROM THE SITE PRIOR TO ADEQUATE PERMANENT STABILIZATION OF THE ASSOCIATED UPLAND DRAINAGE AREAS AND WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE HUDSON CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, UNLESS THEIR REMOVAL IS SPECIFICALLY PROVIDED FOR WITHIN THE SITE'S APPROVED PLAN.
3. THERE SHALL BE NO SEDIMENT-LADEN OR TURBID DISCHARGES TO WATER RESOURCES OR WETLANDS RESULTING FROM DEWATERING ACTIVITIES. IF TRENCH OR GROUNDWATER CONTAINS SEDIMENT, IT MUST PASS THROUGH A SEDIMENT TRAP OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE, PRIOR TO BEING DISCHARGED FROM THE CONSTRUCTION SITE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTLING IN PLACE OR BY DEWATERING INTO A SUMP PIT, FILTER BAG OR COMPARABLE PRACTICE. GROUND WATER DEWATERING WHICH DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS IS NOT REQUIRED TO BE TREATED PRIOR TO DISCHARGE. HOWEVER, CARE MUST BE TAKEN WHEN DISCHARGING GROUND WATER TO ENSURE THAT IT DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.
4. STREETS DIRECTLY ADJACENT TO CONSTRUCTION ENTRANCES AND RECEIVING TRAFFIC FROM THE DEVELOPMENT AREA, SHALL BE CLEANED DAILY TO REMOVE SEDIMENT TRACKED OFF-SITE. IF APPLICABLE, THE CATCH BASINS ON THESE STREETS NEAREST TO THE CONSTRUCTION ENTRANCES SHALL ALSO BE CLEANED WEEKLY. BASED ON SITE CONDITIONS, THE HUDSON CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, MAY REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES TO CONTROL OFF-SITE TRACKING AND DUST.
5. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER, OR HIS/HER REPRESENTATIVE, TO INSPECT ALL CONTROLS ON THE

SITE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER TWENTY-FOUR (24) HOUR PERIOD. WHEN INSPECTIONS REVEAL THE NEED FOR REPAIR, REPLACEMENT, OR INSTALLATION OF EROSION AND SEDIMENT CONTROL SCMS, THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:

- C. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE: IF AN INTERNAL INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT-SETTLING POND, IT MUST BE REPAIRED OR MAINTAINED WITHIN THREE (3) DAYS OF THE INSPECTION. SEDIMENT-SETTLING PONDS MUST BE REPAIRED OR MAINTAINED WITHIN TEN (10) DAYS OF THE INSPECTION.
- D. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION: IF AN INTERNAL INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AS DETAILED IN THE SWP3 AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3 MUST BE AMENDED AND THE NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN TEN (10) DAYS OF THE INSPECTION.
- E. WHEN PRACTICES DEPICTED ON THE SWPPP ARE NOT INSTALLED: IF AN INTERNAL INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE, THE CONTROL PRACTICE MUST BE IMPLEMENTED WITHIN TEN (10) DAYS FROM THE DATE OF THE INSPECTION. IF THE INTERNAL INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD MUST CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.
6. THE APPLICANT SHALL MAINTAIN FOR THREE (3) YEARS FOLLOWING FINAL STABILIZATION THE RESULTS OF THESE INSPECTIONS, THE NAMES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTIONS, THE DATES OF INSPECTIONS, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3, A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3, AND INFORMATION ON ANY INCIDENTS OF NON-COMPLIANCE DETERMINED BY THESE INSPECTIONS.
7. ALL EROSION AND SEDIMENT CONTROL PRACTICES SPECIFIED ON THIS PLAN SHALL CONFORM WITH DETAILS AND SPECIFICATIONS OUTLINED IN THE CURRENT VERSION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES BOOKLET, "RAINWATER AND LAND DEVELOPMENT", OR AS SPECIFIED BY THE HUDSON CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE.
8. EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THIS PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH-MOVING ACTIVITY. ADDITIONAL PRACTICES SHALL BE IMPLEMENTED AT THE DEVELOPER'S EXPENSE AS DIRECTED BY THE HUDSON CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE.

9. NO STRUCTURAL SEDIMENT CONTROLS (E.G. SILT FENCE, SEDIMENT TRAPS, ETC.) SHALL BE USED IN A WATER RESOURCE OR WETLAND, UNLESS THEIR USE IS SPECIFICALLY PROVIDED FOR WITHIN THE SITE'S APPROVED PLAN.

10. SOIL STOCKPILES, TOPSOIL OR OTHERWISE, SHALL BE SITUATED AWAY FROM STREETS, SWALES, OR OTHER WATERWAYS AND SHALL BE SEEDED AND/OR MULCHED IMMEDIATELY.

11. ON-SITE PERSONNEL SHALL TAKE ALL NECESSARY MEASURES TO COMPLY WITH APPLICABLE REGULATIONS REGARDING FUGITIVE DUST EMISSIONS, INCLUDING OBTAINING NECESSARY PERMITS FOR SUCH EMISSIONS. THE HUDSON CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, MAY REQUIRE DUST CONTROLS INCLUDING, BUT NOT LIMITED TO, THE USE OF WATER TRUCKS TO WET DISTURBED AREAS, TARPING STOCKPILES, TEMPORARY STABILIZATION OF DISTURBED AREAS, AND REGULATION OF THE SPEED OF VEHICLES ON THE SITE.

12. VEGETATIVE STABILIZATION, DISTURBED AREAS, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF FOURTEEN (14) DAYS OR GREATER SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN SEVEN (7) DAYS AFTER THE LAST DISTURBANCE. DISTURBED AREAS THAT WILL REMAIN DORMANT FOR MORE THAN 14 DAYS WITHIN 50 FEET OF A STREAM SHALL HAVE TEMPORARY EROSION CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO SEEDING AND MULCHING, APPLIED WITHIN 2 DAYS. DISTURBED AREAS THAT HAVE REACHED FINAL GRADE SHALL BE STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE.

13. ANY DISTURBED AREA NOT PAVED, SODDED, OR BUILT UPON SHALL HAVE A MINIMUM OF 80% UNIFORM VEGETATIVE COVER PRIOR TO FINAL INSPECTION, AND IN THE OPINION OF THE HUDSON CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, WILL BE MATURE ENOUGH TO CONTROL EROSION SATISFACTORILY AND SURVIVE SEVERE WEATHER.

14. IMPLEMENTATION OF EROSION AND SEDIMENT CONTROLS SHALL CONFORM TO THE CITY OF HUDSON CODIFIED ORDINANCES AND THE OHIO EPA CONSTRUCTION GENERAL PERMIT #OHCC000004. IF A CONFLICT EXISTS BETWEEN THE TWO REGARDING EROSION AND SEDIMENT CONTROL IMPLEMENTATION THE MORE RESTRICTIVE SHALL APPLY.

GENERAL NOTES FOR NON-SEDIMENT POLLUTANT CONTROLS

1. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR ENSURING ALL FORMS OF WASTE ARE PROPERLY DISPOSED OF.
2. CONTAMINATED SOILS FROM REDEVELOPMENT SITES SHALL BE DISPOSED OF PROPERLY. RUNOFF FROM CONTAMINATED SOILS SHALL NOT BE DISCHARGED FROM THE SITE. PROPER PERMITS SHALL BE OBTAINED FOR DEVELOPMENT PROJECTS ON SOLID WASTE LANDFILL SITES OR REDEVELOPMENT SITES.
3. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED AWAY FROM ANY WATER CONVEYANCES.
4. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF. ANY AND ALL WASTE MATERIALS (SOLID, HAZARDOUS, CONSTRUCTION & DEMOLITION, SANITARY, TOXIC, CONTAMINATED SOILS, ETC.) GENERATED AT THE SITE SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES/REGULATIONS. ON-SITE STORAGE CONTAINERS SHALL BE COVERED AND NOT LEAKING. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ONTO THE GROUND OR INTO THE STORM SEWERS ANY SOLVENTS, PAINTS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND ANY OTHER SUCH TOXIC OR HAZARDOUS MATERIALS OR WASTES.
5. HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
6. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT WITH A MINIMUM CAPACITY EQUAL TO 110% OF THE VOLUME OF ALL CONTAINERS IN A STORAGE AREA SHALL BE PROVIDED FOR ALL FUEL/LIQUID STORAGE TANKS AND DRUMS.
7. ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.
8. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:

- A. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- B. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

- C. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE MANUFACTURER'S LABEL. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- D. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- E. THE MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- F. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.
9. IN ADDITION TO PREVIOUS NOTES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEAN-UP:

- A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP WILL BE POSTED AND SITE PERSONNEL MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY DESIGNATED FOR THIS PURPOSE.
- C. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- D. THE SPILL AREA WILL BE KEPT WELL-VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- E. SPILLS OF TOXIC OR HAZARDOUS MATERIALS WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- F. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- G. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.

10. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE (ORC) 3714 AND LOCAL REGULATIONS.

11. SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA 1-800-282-9378, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO OHIO EPA'S HOTLINE.

12. OPEN BURNING IS PROHIBITED.

CONSTRUCTION SCHEDULE

1. INSTALL SILT PROTECTION AND INLET PROTECTION
2. CONSTRUCT WATER QUALITY BASIN. INSTALL TEMPORARY SKIMMER ON WATER QUALITY BASIN PER PLAN DETAILS.
3. PERFORM CLEARING AND TOPSOIL STRIPPING.
4. PROVIDE CONCRETE WASHOUT PRIOR TO CURB AND WALK INSTALLATION.
5. APPLY PERMANENT SEED/MULCH WITH EROSION CONTROL MATTING TO WATER QUALITY BASIN SIDE SLOPES AND ALL DISTURBED AREAS
6. CONSTRUCT BUILDING, PAVING, UTILITIES, AND ALL PLANNED IMPROVEMENTS.
7. PERFORM FINAL GRADING.
8. APPLY PERMANENT VEGETATIVE STABILIZATION TO ALL LANDSCAPED AREAS UPON SATISFACTORY ESTABLISHMENT OF VEGETATION (70% UNIFORM COVERAGE).
9. INSPECT AND CLEAN PROPOSED OUTLET STRUCTURE WITHIN WATER QUALITY BASIN. REMOVE TEMPORARY SKIMMER. REMOVE ACCUMULATED SEDIMENT AS NECESSARY TO RESTORE PERMANENT DESIGN VOLUMES WITHIN WATER QUALITY BASIN.

SWP3 AMENDMENT LOG

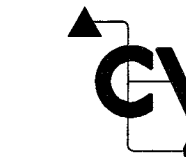
DATE SWP3 ACTIVITY INITIATED	DESCRIPTION OF SWP3 ACTIVITY	DATE SWP3 ACTIVITY CEASED (TEMP.OR PERM.)



PREMIER
Development Partners
5301 Grant Avenue
Cleveland, OH 44125
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**DAVISON
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**CHAGRIN VALLEY
ENGINEERING, LTD.**
22900 FORBES ROAD, SUITE B
CLEVELAND, OHIO 44146
PHONE: (440) 439-1999
FAX: (440) 439-1999

Date: FOR PERMIT July 18, 2019
CITY COMMENT RESPONSE
Aug 19, 2019

MANNESCHI & BENEDETTI PROPERTIES, LLC

HUDSON INDUSTRIAL SITE
HUDSON CROSSING PARKWAY
HUDSON, OHIO

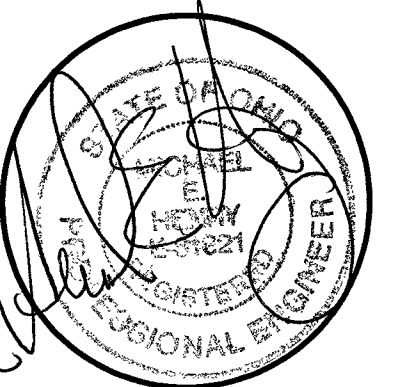
STORMWATER POLLUTION PREVENTION PLAN

Approved By:

Approved Date:

Scale:

AS SHOWN



Developer Job Number:

Consultant Job Number:
17.056

Drawing Number:
C.13

13 Of 17 Sheets

[illegible]

- Notes:**
1. All material to meet Fibriac® specifications.
 2. StidCoat™ composite geotextile/rock/seed fill to meet application requirements.
 3. StidCoat™ depicted is for minimum slopes. Greater slopes may require larger rocks per the Engleac.
 4. Compost material to be dispersed on site, as determined by

Maximum Slope Length Above Siltmax* in Feet (meters)*						
Slope Percent	8 in (203 mm) Siltmax*	12 in (303 mm) Siltmax*	18 in (452 mm) Siltmax*	24 in (609 mm) Siltmax*	30 in (762 mm) Siltmax*	36 in (914 mm) Siltmax*
	17 in (430 mm)*	24 in (609 mm)*	36 in (914 mm)*	48 in (1219 mm)*	60 in (1524 mm)*	72 in (1829 mm)*
2 (or less)	500 (127)	170 (225)	1000 (254)	1300 (330)	1500 (381)	1650 (418)
5	400 (102)	500 (127)	550 (140)	650 (165)	750 (190)	750 (190)
10	260 (66)	290 (73)	300 (76)	400 (102)	450 (114)	500 (127)
15	140 (35)	170 (43)	170 (43)	220 (56)	225 (57)	250 (64)
20	100 (25)	125 (32)	140 (35)	140 (35)	200 (51)	400 (102)
25	60 (15)	100 (25)	110 (28)	110 (28)	150 (38)	275 (70)
30	60 (15)	75 (23)	90 (23)	100 (25)	130 (33)	190 (49)
35	60 (15)	75 (23)	80 (24)	100 (25)	110 (28)	140 (35)
40	60 (15)	60 (15)	70 (18)	80 (20)	90 (23)	125 (32)
45	40 (12)	50 (15)	60 (18)	80 (20)	90 (23)	100 (25)
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)	75 (23)

*Based on a failure point of 36 in (0.9 m) super silt fence (wire reinforced) at 1000 ft (303 m) of slope, watershed width equivalent to receiving length of sediment control device, 1 in/24 hr (25 mm/24 hr) rain event. **Effective height of Silt SoxxTM after installation and constant head from runoff as determined by Ohio State University.

1. Disturbed areas must be permanently stabilized as specified in the following table

Area requiring permanent stabilization:	Time frame to apply erosion controls:
Any area that will lie dormant for one year or more.	Within seven (7) days of the most recent disturbance.
Any area within fifty (50) feet of a surface water of the state and at final grade.	Within two (2) days of reaching final grade.
Any area at final grade.	Within seven (7) days of reaching final grade within that area.

2. Reduce soil compaction as much as possible so as to promote infiltration, which will aid in seed germination and long-term survivability. Topsoil should be replaced where needed to establish vegetation.
3. Seed the area with a seed mix appropriate for the soil type and climate. The seed mix should be broadcasted through soil testing. If necessary, there may be a need to amend the soil to a depth of 3-4 inches.
4. After the seeding date and the growth season 1 to May 31 and August 1 to September 30. However, due to the use of mulch and irrigation, germination may be made at any time during the growth season. Application of permanent seedling and dormant seedling shall include mulch, which shall be applied at a rate of 2 to 3 inches during or immediately after seeding.
5. The seedling shall be established by October 1 and November 20. Although germination of seed is likely, it is likely not survive the winter.
6. To complete a dormant seedling, increase the seeding rates by 50% and only apply them after November 20 and before March 15. Seedling shall be established by May 31.
7. Seeded areas shall be inspected for failure and vegetation shall be re-established as needed. Depending on site conditions, it may be necessary to irrigate, fertilize, or re-establish plantings in order to provide permanent vegetation for adequate erosion control.
8. The seedling shall be established by May 31.

Suggested rates for permanent seedings (other approved species may be substituted)

Seed Mix	Seeding Rate	
	lbs./Acres	lbs./1000ft ²
(General Use)		
Creeping Red Fescue	20-40	1/4 - 1/2
Domestic Fescue	10 - 20	1/8 - 1/4
Kentucky Bluegrass	20-40	1/4 - 1/2
(Lawns - Shaded areas)		
Kentucky Bluegrass	100-120	2
Creeping Red Fescue	100-120	1 1/2
(Lawns)		
Kentucky Bluegrass	100-120	2
Perennial Ryegrass	100-120	2
(Sweep Banks or Cut Slopes)		
Tall Fescue	40-50	1 - 1 1/2
(Road Ditches and Swales)		
Tall Fescue	40-50	1 - 1 1/2

1. ODOT #2 (1.5 to 2.5 inch) stone or recycled concrete equivalent shall be placed at a minimum 6-inch thickness for light duty use or at least 10-inch thickness for heavy-duty use.
2. The entrance shall be as long as required to stabilize high traffic areas (30-ft minimum on a single residential lot; 70-ft minimum elsewhere). The entrance shall be at least 14 feet wide, but not less than the full width, at locations where ingress or egress occur.
3. A geotextile shall be placed over the entire area prior to placing stone. It shall be composed of strong rot-proof polymeric fibers and meet the following specifications:

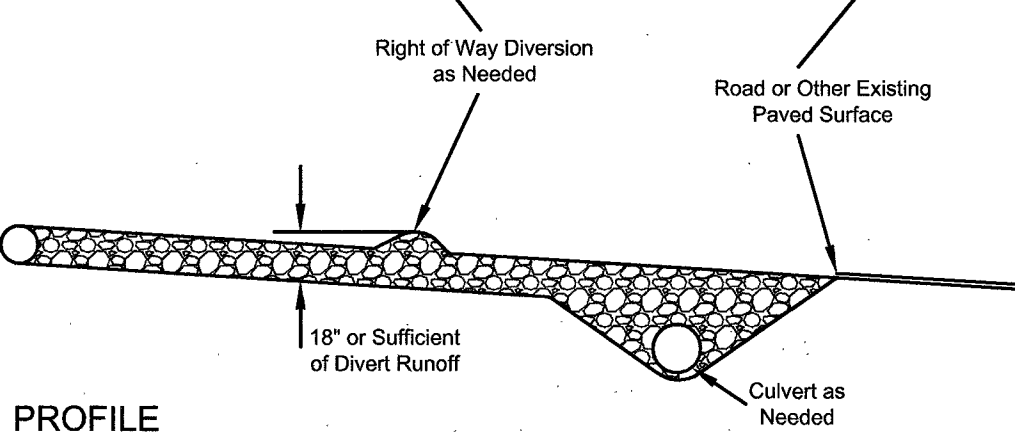
Minimum tensile strength	200 lbs
Minimum puncture strength	80psi
Minimum tear strength	50 lbs
Minimum burst strength	320 lbs
Minimum elongation	20 %
Equivalent opening size	EOS < 0.6mm
Permeability	1 x 10-3 cm/sec

4. If needed, a pipe or culvert shall be constructed under the entrance to prevent surface water from flowing across the entrance out onto paved surfaces.
5. If needed, a water bar shall be constructed to prevent surface water from flowing along the length of the entrance out onto paved surfaces.

6. Top dress with additional stone as site conditions demand.
7. Remove mud tracked onto public streets immediately via scraping or sweeping.
8. Ensure the ends of the temporary culvert pipe (if utilized) are not blocked and that the pipe is free of debris.

9. The entrance shall remain in place until the disturbed area is stabilized or replaced with a permanent roadway or entrance.
10. Pull out all construction entrance material and properly dispose of off-site. Stone can be blended into the surrounding landscape as site conditions allow.
11. Re-grade the area as necessary and establish vegetation on any resulting disturbed areas.

70 ft. (or 30ft for Access to Individual House Lot)



1. Concrete wash water shall not be allowed to flow to streams, ditches, storm drains, or any other water conveyance and washout pits shall be situated a minimum of fifty (50) feet from them.
2. Field tile or other subsurface drainage structures within 10 ft. of the sump shall be cut and plugged.
3. Ensure a stable path is provided for concrete trucks to reach the washout area.
4. A highly visible sign that reads "Concrete Washout Area" shall be erected adjacent to the washout pit.
5. Surface runoff generated from upslope areas shall be diverted away from below-grade washout pits so as not to flow into them.
6. A single controlled washout area may be utilized for multiple sublots.

7. The washout pit must be inspected daily and after heavy rains to check for leaks, identify if any plastic linings and sidewalls have been damaged by construction activities, and determine whether the pit has been filled to over 75% capacity.
8. If 75% of the original volume of the washout pit is filled, wash water should be vacuumed off or allowed to evaporate to avoid overflows. Then when the remaining material has hardened, it must be removed and properly disposed of. Once the hardened concrete is removed, the liner will need to be replaced if torn. A new pit must be constructed if the original structure is no longer suitable.

- Removal:**
10. Once the washout pit is no longer needed, ensure all washout material has completely hardened, then remove and properly dispose of all materials. If straw bales were used, they can be spread as mulch.
11. Prefabricated containers specifically designed for concrete washout collection may be used subject to prior approval by the Engineer. Follow the manufacturer's suggestions for installation, maintenance and removal procedures.

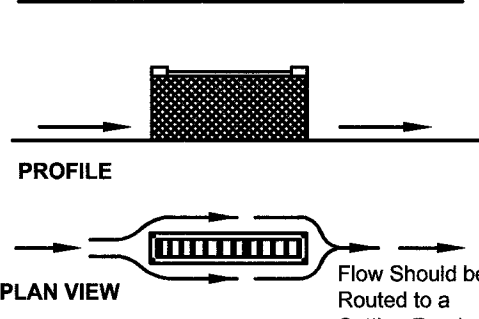
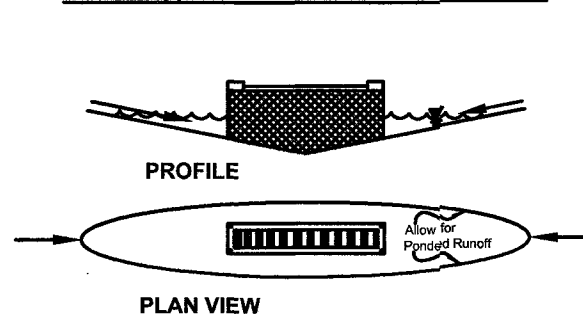
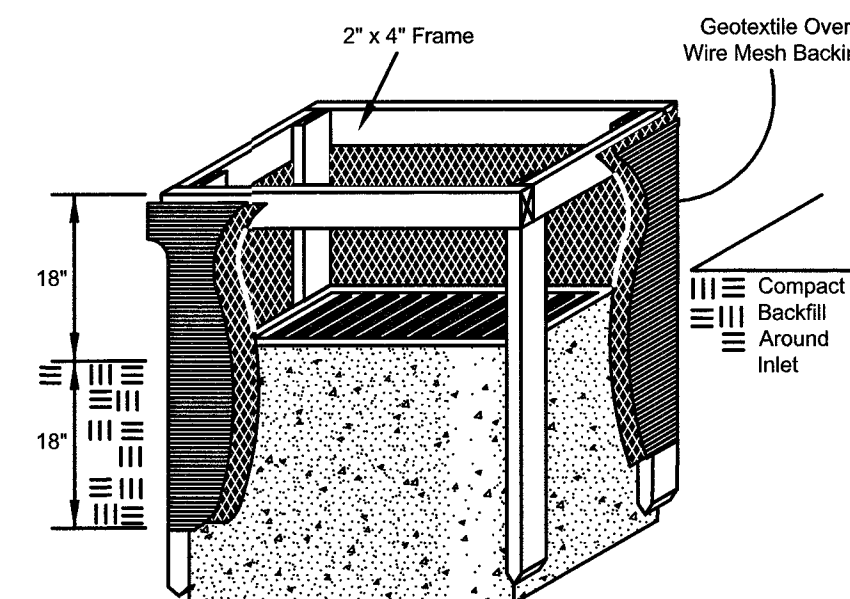
Below-grade (3-ft depth)			Above-grade (2-ft depth)		
# of concrete trucks expected to be washed out on site*	Width (ft)	Length (ft)	# of concrete trucks expected to be washed out on site*	Width (ft)	Length (ft)
2-3	3	3	2	3	3
4-5	4	4	3-4	4	4
6-7	5	5	5-6	5	5
8-10	6	6	7-8	6	6
			9-11	7	7
11-14	7	7	12-15	8	8

*For small projects using a maximum of only one truckload of concrete or utilizing on-site mixing, rinsing of equipment may take place on the lot without a pit, provided it can be done a minimum of fifty (50) feet away from any water conveyances.

1. Construct prior to upslope land disturbance.
 2. Excavate around the trench to a depth of 18-inches.
 3. Generate and install the frame from 2-inch x 4-inch lumber. Drive posts 1-foot into the ground at each corner directly against the concrete base and assemble the top frame with an overlap joint shown below. The top frame shall be set at an elevation that does not exceed the elevation of the trench.
 4. The wire mesh and geotextile shall be tightly stretched and fastened to the frame.
 5. The wire mesh shall be fastened to the frame at the ends of the trench and not fastened to the same post.
 6. Backfill the trench to the 18-inch trench around the trench in compacted 6-inch layers until the elevation of the frame is reached is reached.
- Maintenance:**
1. Remove accumulated sediment when it reaches one-half the height of the practice. The removed sediment must be stabilized and should not be placed where it could eventually be conveyed back to the practice.
 2. Clean and properly dispose of damaged sill fence material.
 3. Areas where surface flow has cut out under the sill fence material within the trench shall be replaced.

10. Pull out all silt fence material and stakes and properly dispose of off-site.
11. Re-grade area where sediment has accumulated as necessary and establish vegetation on any resulting disturbed areas.

Alternative manufactured yard drain inlet protection products are available and can be used, subject to prior approval by the Engineer.

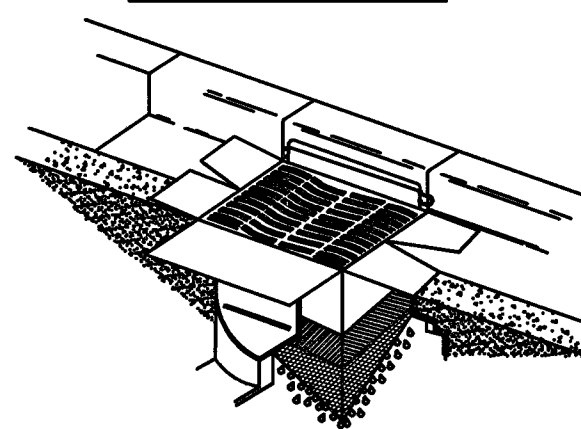
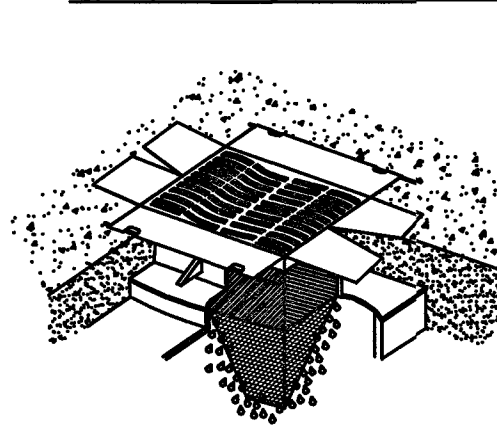


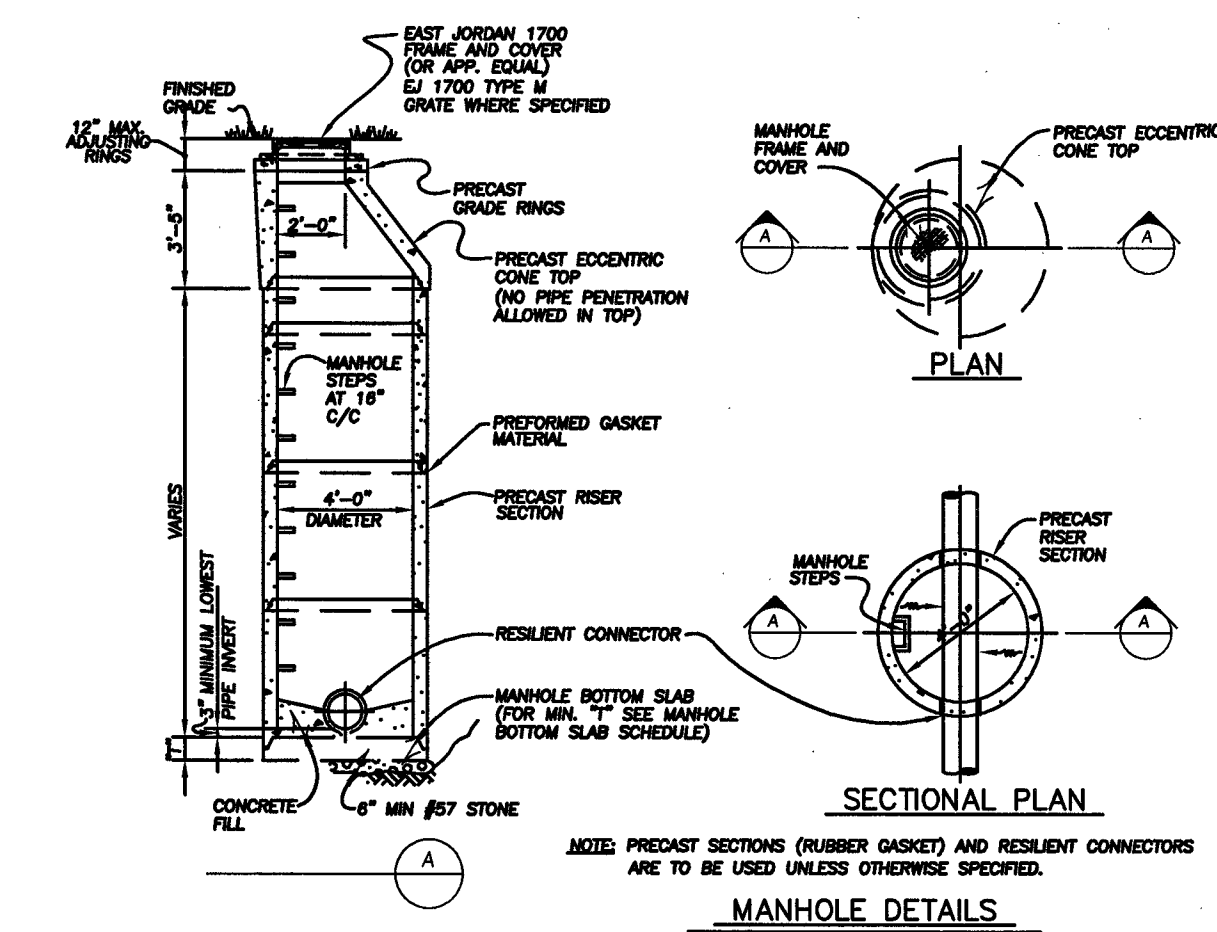
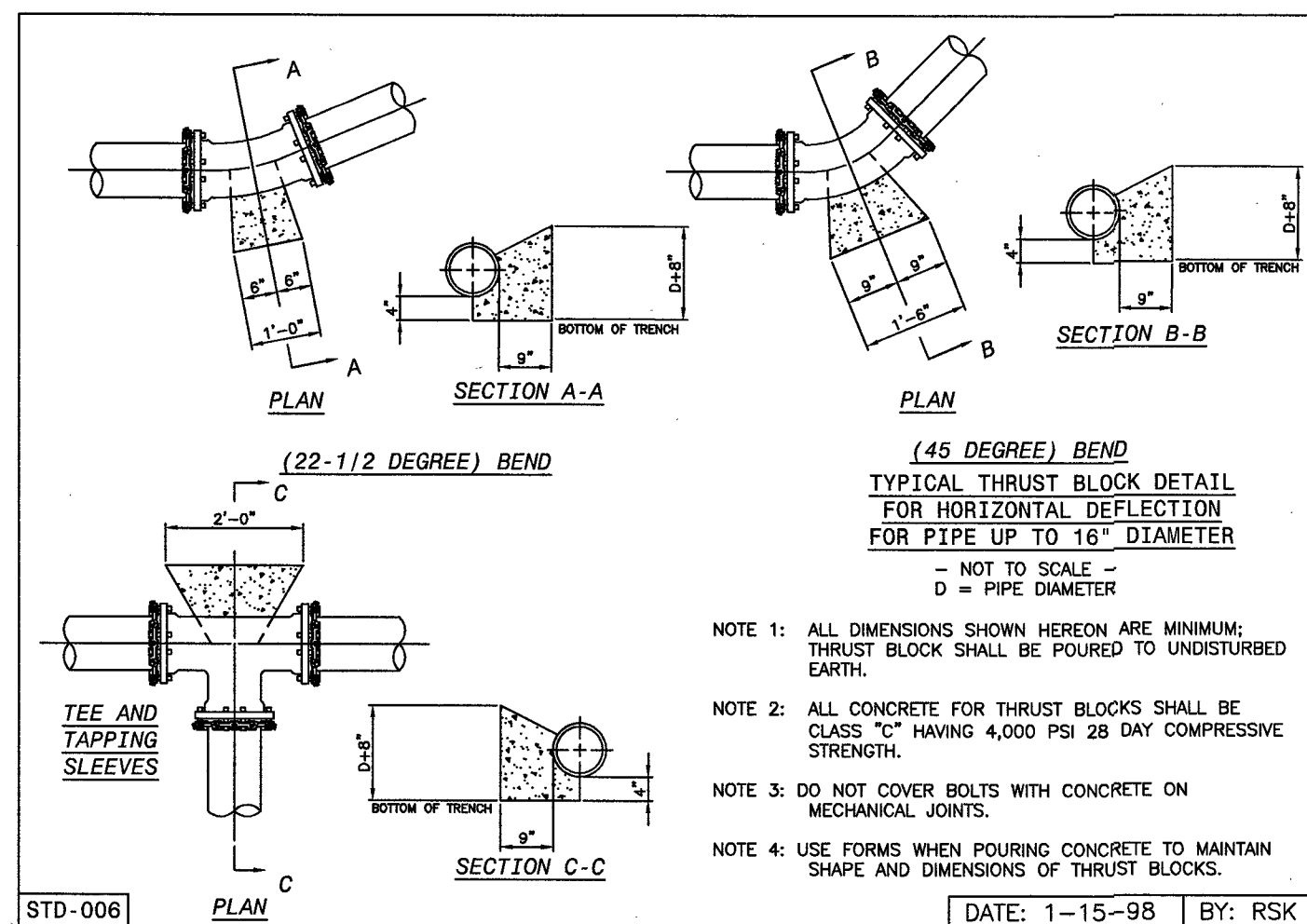
1. Remove the grate from the catch basin.
2. Insert the filtration sack into opening of catch basin. Some products require the filtration sack be slipped over the catch basin grate first.
3. Reinsert grate into catch basin while ensuring all necessary support straps remain outside the catch basin on top of the surface. If necessary, insert rebar through the support straps to provide support and ensure the filtration sack does not fall into catch basin as it fills with sediment.

4. The filtration sack must be emptied when it is 1/3rd full of sediment and debris. Sacks are typically manufactured with lifting straps and dumping straps.
5. To empty the sack, remove the grate, lift the sack out of the catch basin via the lifting straps and haul it to an appropriate area. Turn it inside out with the dumping straps provided.
6. The filtration sack must be replaced if it is torn, otherwise the same sack can be used multiple times.

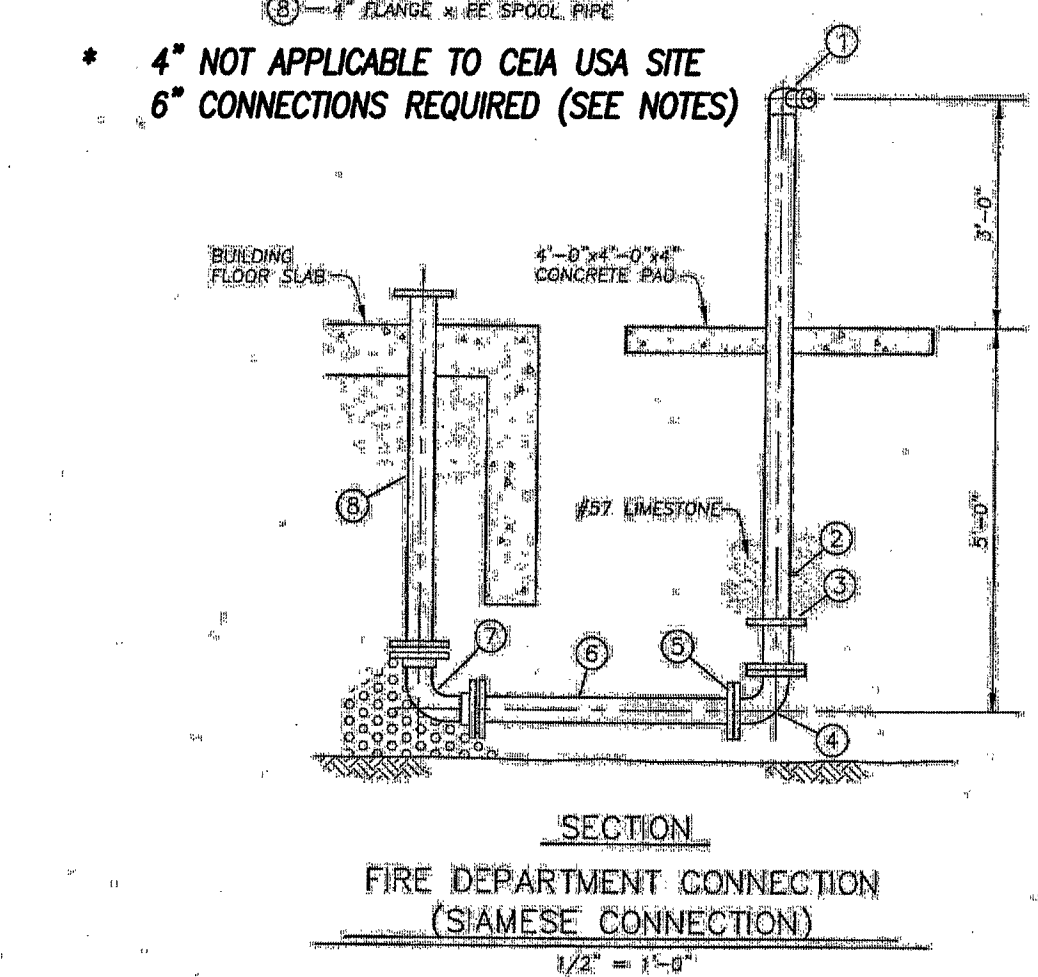
8. Re-grade area where accumulated sediment has been placed as necessary and establish vegetation on any resulting disturbed areas.

The following diagrams provide a general idea of how to install and maintain a variety of manufactured storm drain inlet protection practices. Be sure to implement filtration sacks that are appropriate for either curb inlet or for vard drain inlets. Manufacturer's specifications for the product of choice should be followed.

[illegible]



- ① - 1/2" x 1/2" x 1/2" S100 S100 S100 CAPS (FDC) FIRE DEPT. CONNECTION
 - ② - 1/2" x 1/2" GALV. THREADED NIPPLE TAPPED 6" FROM BOTTOM END w/ 1/2" BALL DRIP VALVE
 - ③ - 4" COMPANION FLANGE AND GASKET SET BY BOLTS AND NUTS
 - ④ - 4" FLANGED 90° ELBOW
 - ⑤ - 4" EX. FLANGE (EGBA)
 - ⑥ - 4" PIPE (RESTRAINED)
 - ⑦ - 4" x 1/2" 90° ELBOW w/ MECHANICAL JOINTS
 - ⑧ - 4" FLANGE x 1/2" SPOOL PIPE
- * 4" NOT APPLICABLE TO CEJA USA SITE
6" CONNECTIONS REQUIRED (SEE NOTES)

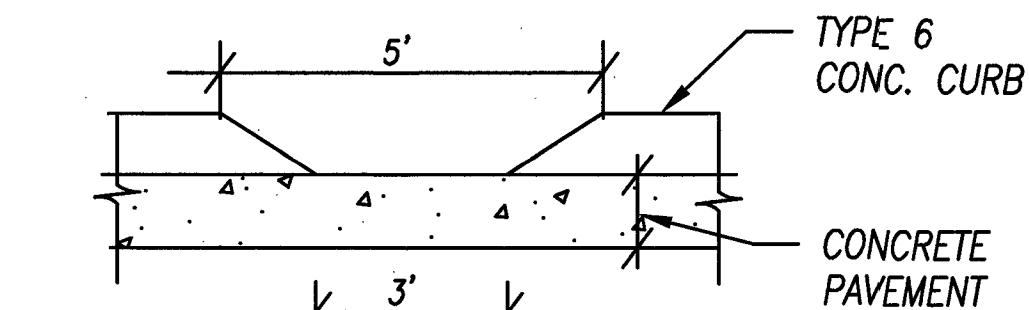


SEE DISCLAIMER STATEMENT ON THE TITLE PAGE OF THESE ENGINEERING STANDARDS
HDSNAR.010 05-10-02

FIG 2.15.6

NOTES:

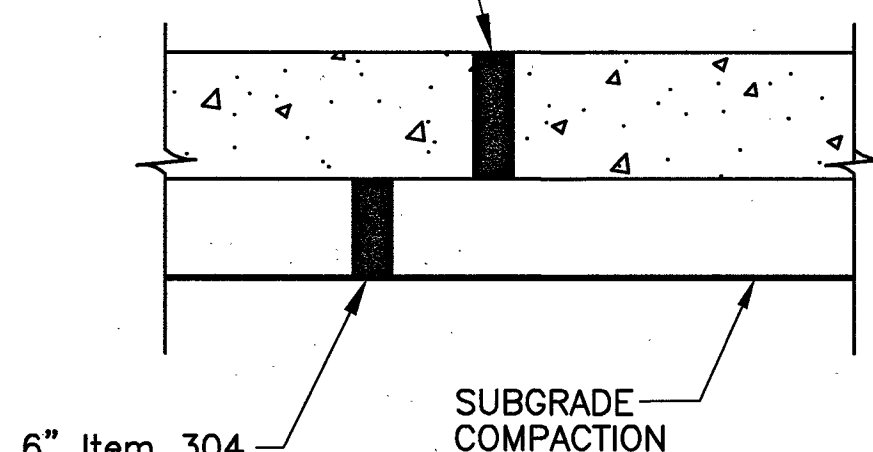
1. FIRE DEPARTMENT CONNECTION LEAD-IN AND RISER PIPE FOR BUILDING SPRINKLER SYSTEM MUST BOTH BE 6" TO PROVIDE ADEQUATE FIRE SUPPRESSION WATER SUPPLY.
2. FDC MUST BE 5" STORZ THREAD ON A 30 DEGREE ELBOW.
3. FDC RISER PIPES SHALL BE PAINTED RED IN COLOR.
4. FIRE HYDRANTS AND FDC MUST MEET CITY OF HUDSON NOZZLE THREAD SPECIFICATIONS.
5. ALL WATERLINES SHALL BE TESTED PER THE CITY OF HUDSON STANDARDS.
6. ALL FIRE LINES SHALL BE INSPECTED BY THE SUMMIT COUNTY DEPT. OF BUILDING STANDARDS AND THE HUDSON FIRE DEPARTMENT FROM THE EXISTING UTILITY TO THE BUILDING.



CURB DEPRESSION ELEVATION

No scale

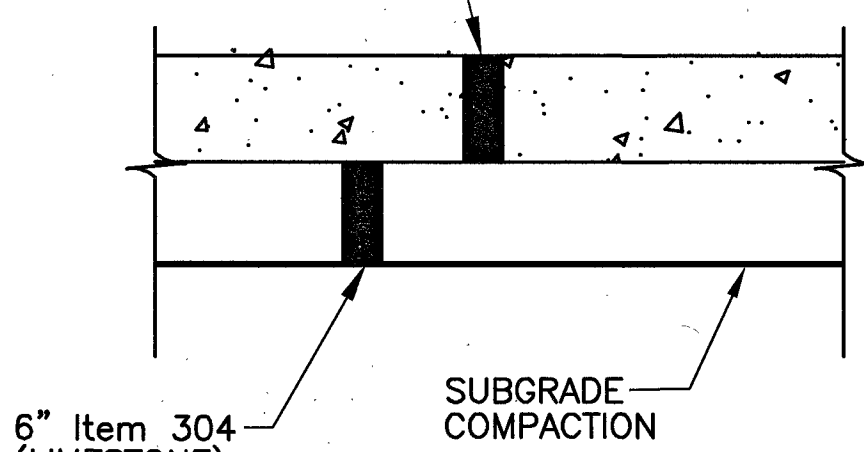
ITEM 451- 7" CONCRETE CLASS QC1 W/ W/6x6-10x10 WIRE MESH



HEAVY DUTY CONCRETE PAVEMENT

N.T.S.

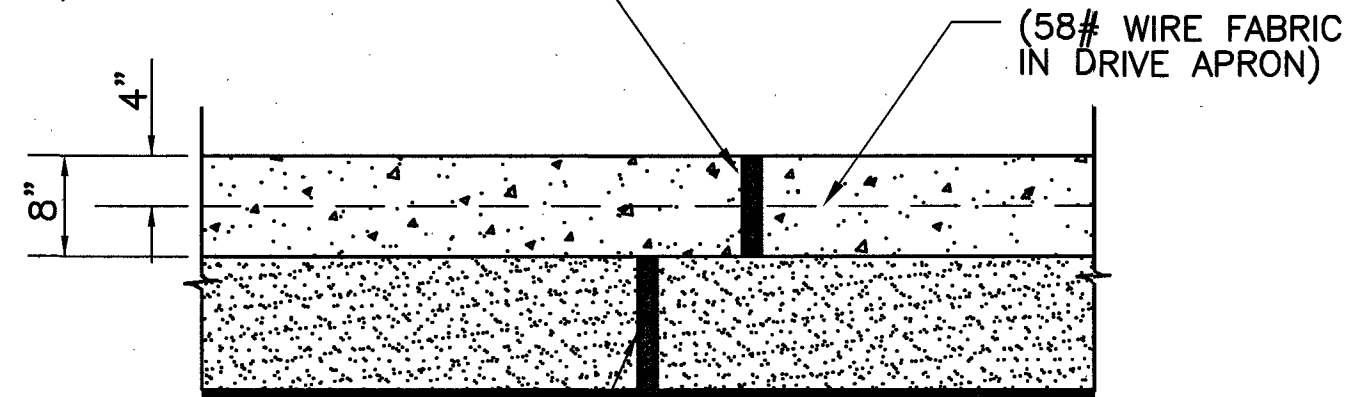
ITEM 451- 5" CONCRETE CLASS QC1 W/ W/6x6-10x10 WIRE MESH



LIGHT DUTY CONCRETE PAVEMENT

N.T.S.

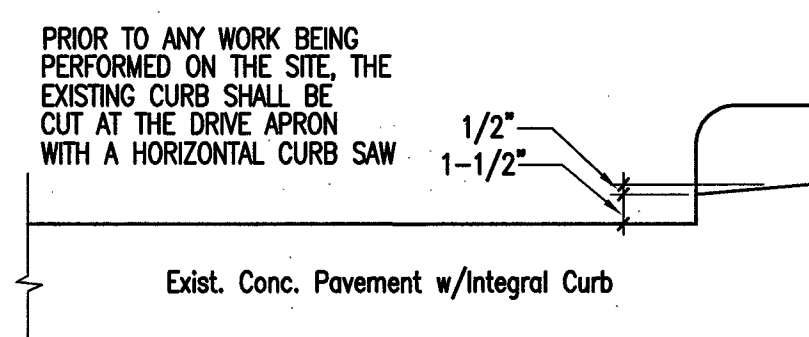
ITEM 451- 8" REINFORCED ODOT QC MS CONCRETE PAVEMENT



CONCRETE APRON

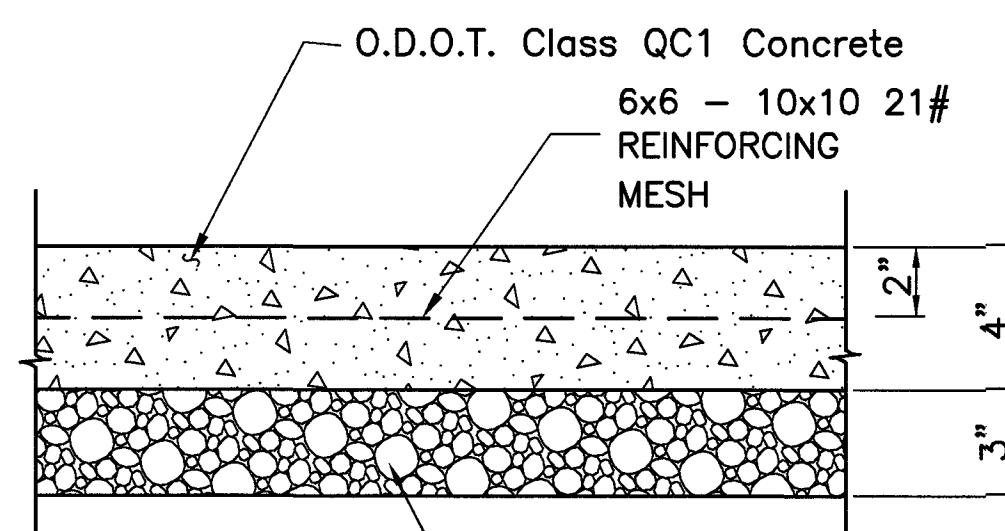
N.T.S.

ITEM 304- 6" AGGREGATE (LIMESTONE). INSTALL ADDITIONAL STONE BELOW IF SUBGRADE IS POOR.



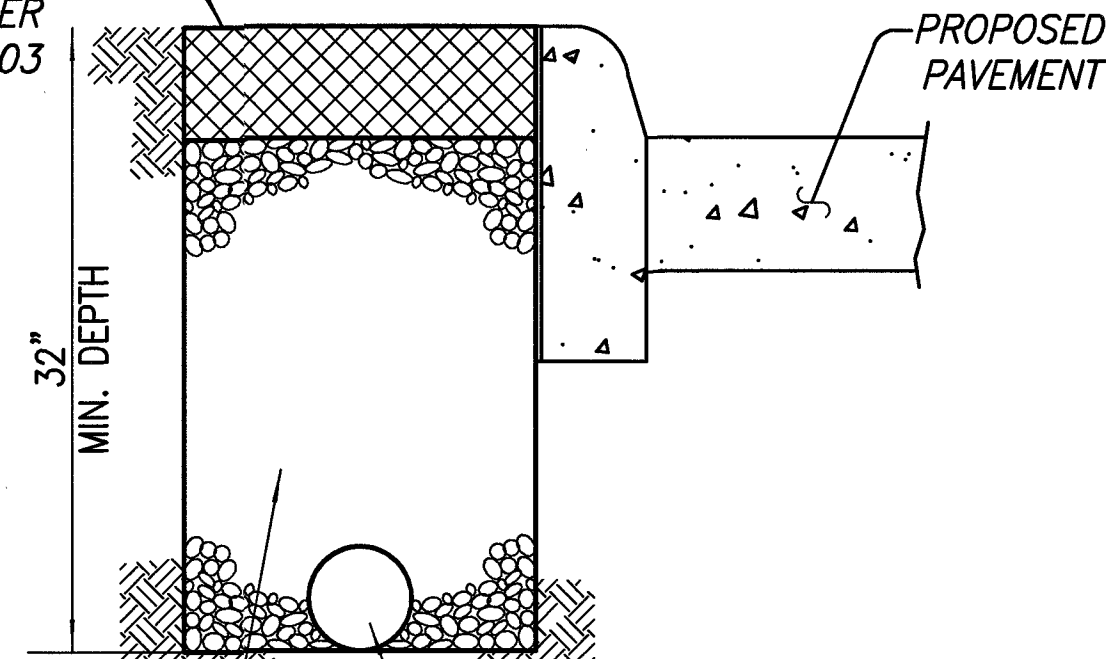
APRON CURB CUT DETAIL

N.T.S.



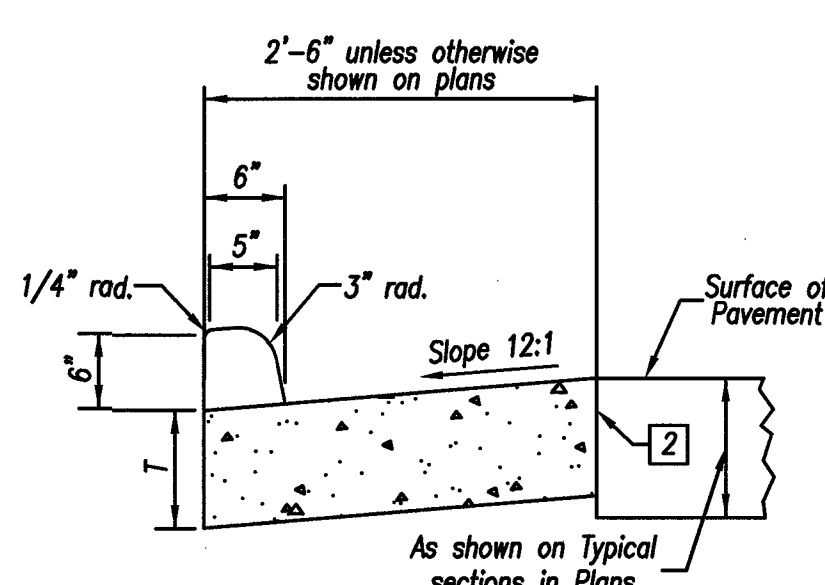
4" CONCRETE SIDEWALK DETAIL

TAMPED EARTH OR SIDEWALK W/EXPANSION MATERIAL AS PER ODOT 705.03

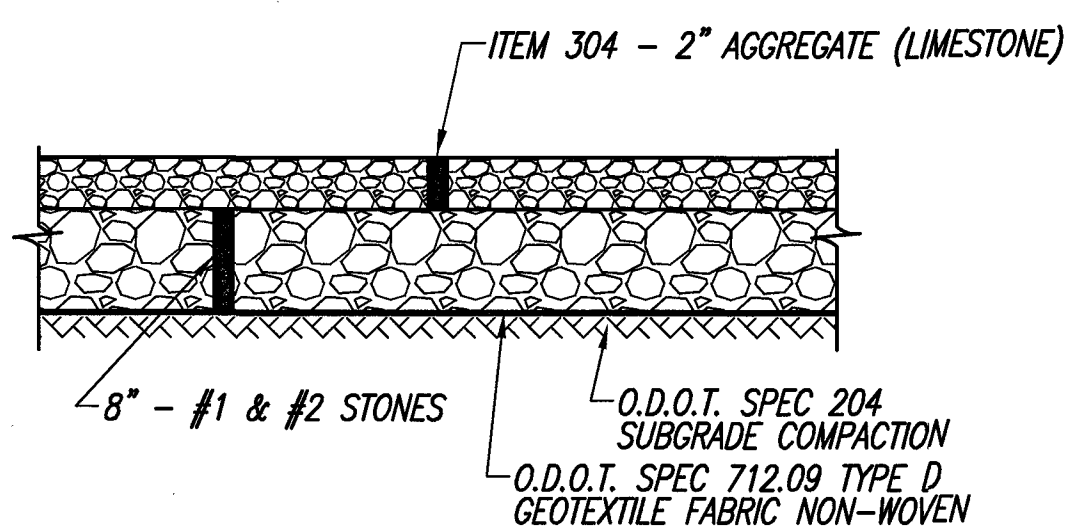


CURB DRAIN DETAIL

No Scale

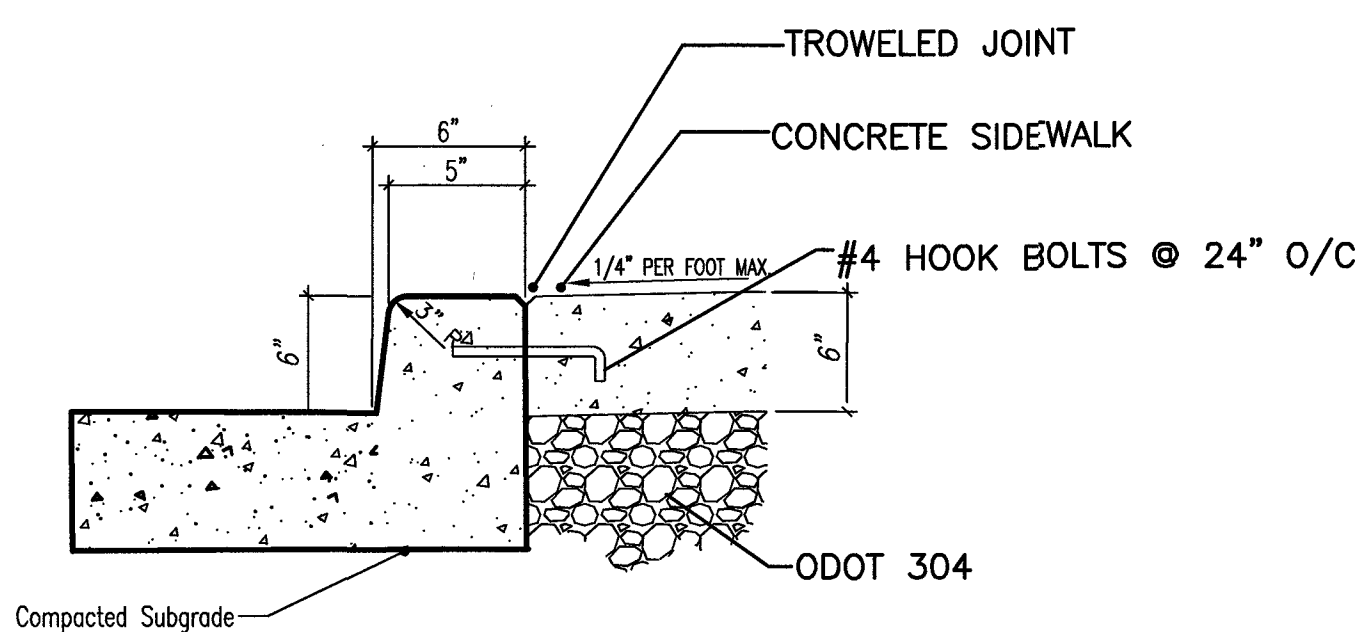


ODOT TYPE 2 CONCRETE CURB



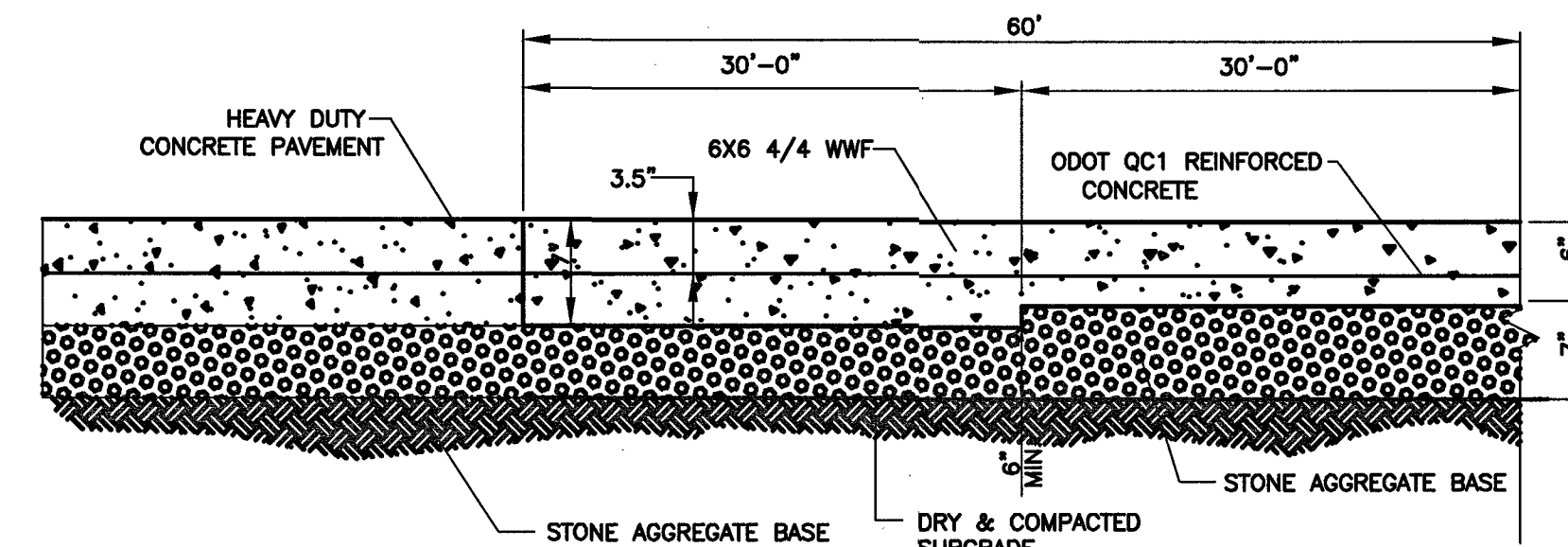
GRAVEL FIRE ACCESS DRIVE

N.T.S.



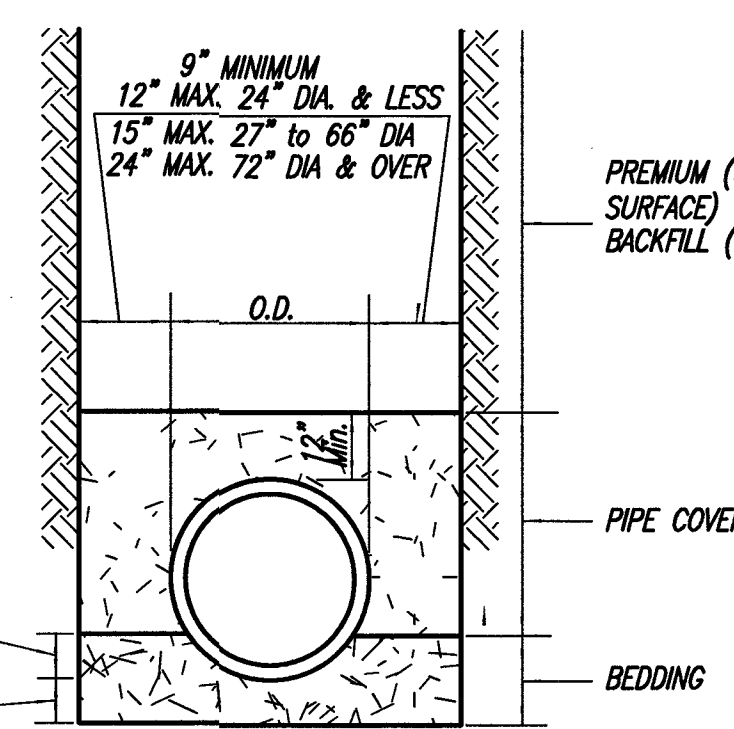
INTEGRAL CURB & WALK DETAIL

No Scale



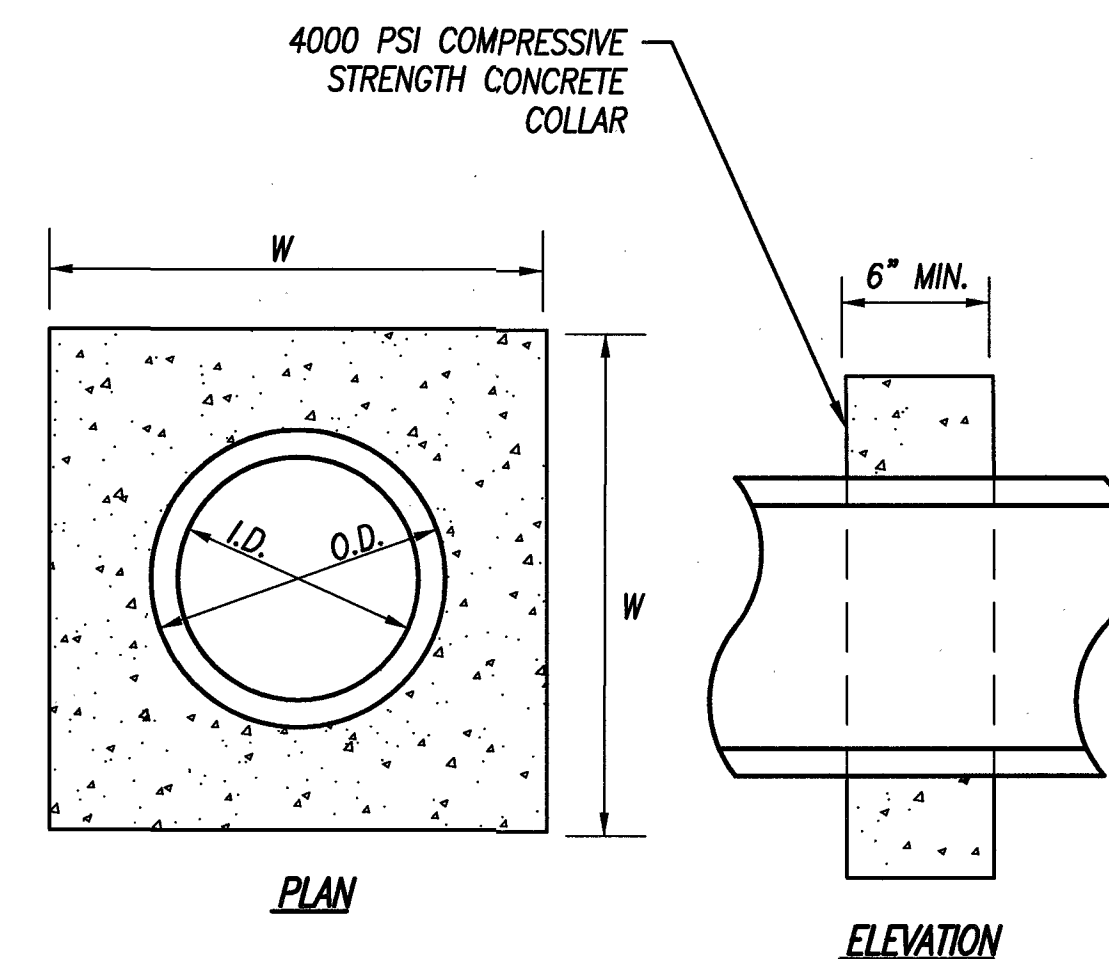
EXTERIOR DOCK SLAB

No Scale



TYPE I (STORM & SANITARY OUTSIDE RIGHT-OF-WAY) TYPICAL TRENCH DETAIL

Premium Backfill shall consist of coarse interlocking aggregate O.D.O.T. 304 Limestone. Slag is not allowed. Pipe Cover shall consist of coarse interlocking aggregate no. 57 Crushed Limestone. Bedding shall consist of coarse interlocking aggregate no. 57.



ANTI-SEEP COLLAR

NO SCALE

DIAMETER (I.D.) (FT.)	CONCRETE C.Y.		
	DIMENSIONS OF COLLAR WxW (FT.)		
1	3x3	4x4	5x5
2	0.15	0.28	0.45
3	NA	0.24	0.40
	NA	NA	0.33

THE FOLLOWING ODOT STANDARD CONSTRUCTION DRAWINGS ARE TO BE INCLUDED AS PART OF THE DRAWING SET FOR THIS PROJECT:

1. BP-7.1 "CURB RAMPS"
2. CB-1.1 "CATCH BASINS NO'S. 2-2A & B"
3. CB-2.1 "CATCH BASINS NO'S. 2-3 & 2-4"
4. HW-1.1 "FULL-HEIGHT HEADWALLS"

SEDIMENT BASIN CALCULATIONS

SEDIMENT STORAGE VOLUME

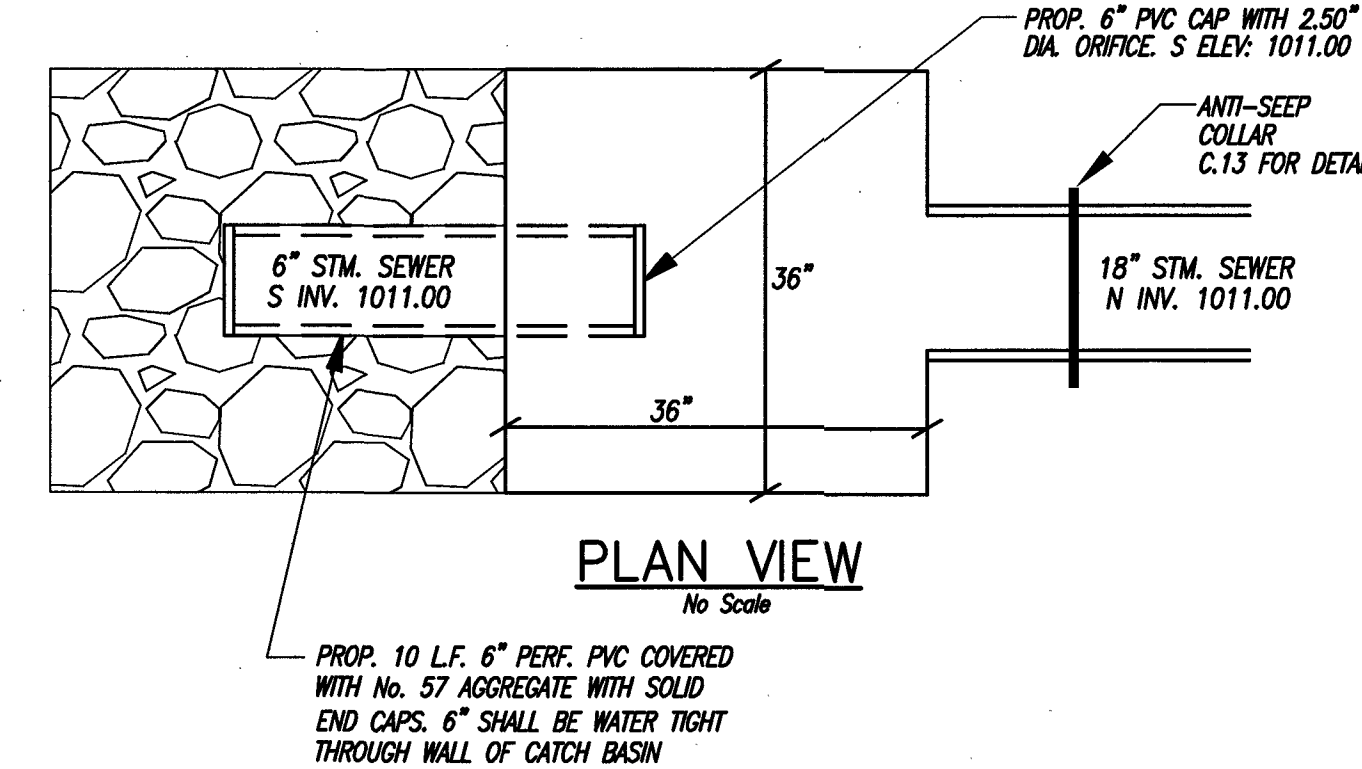
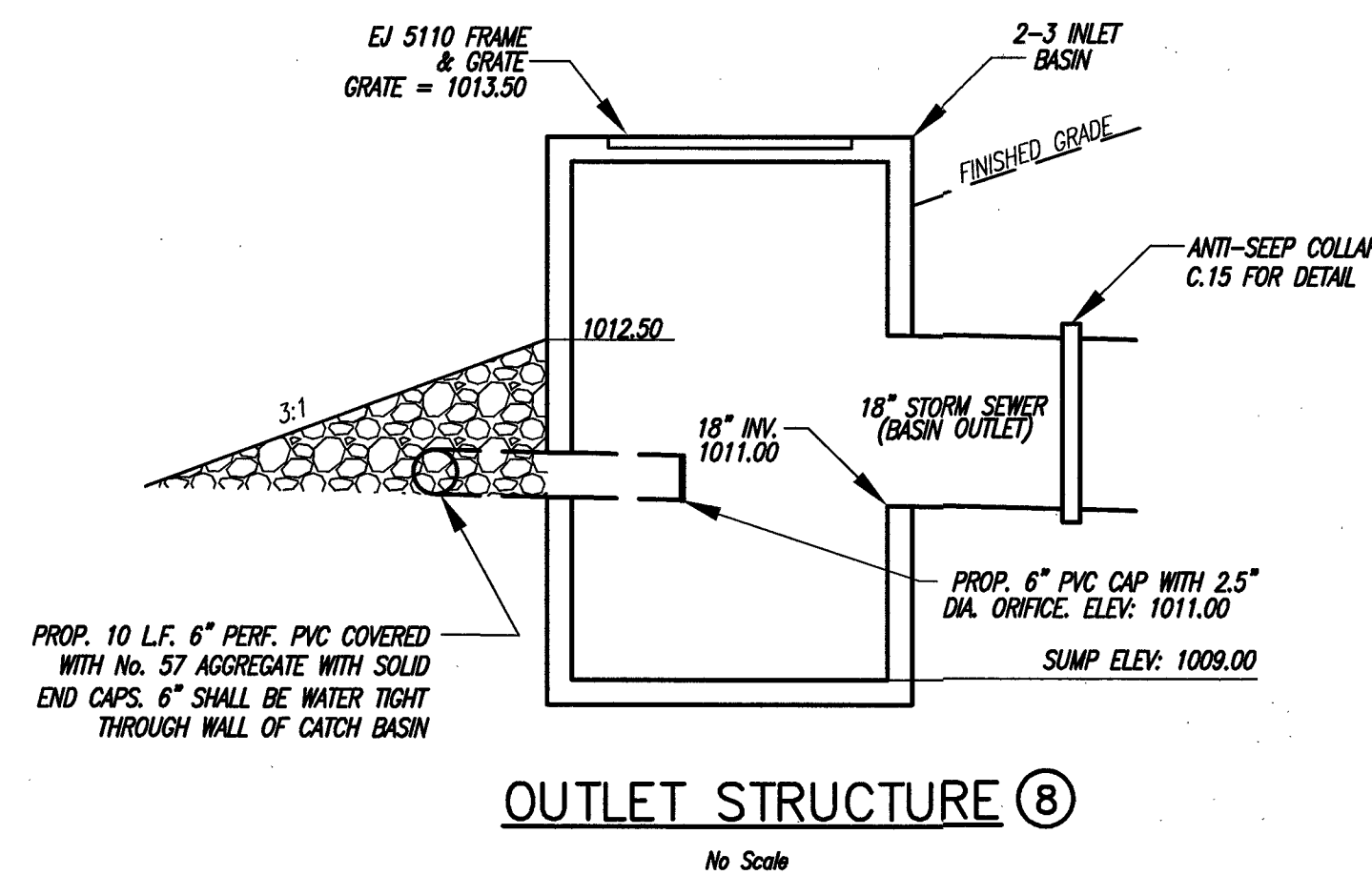
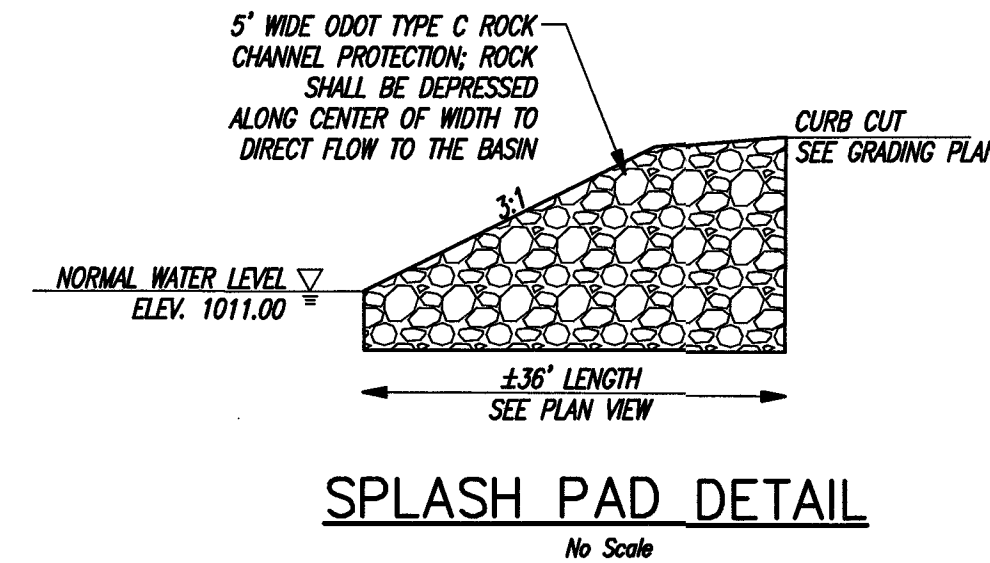
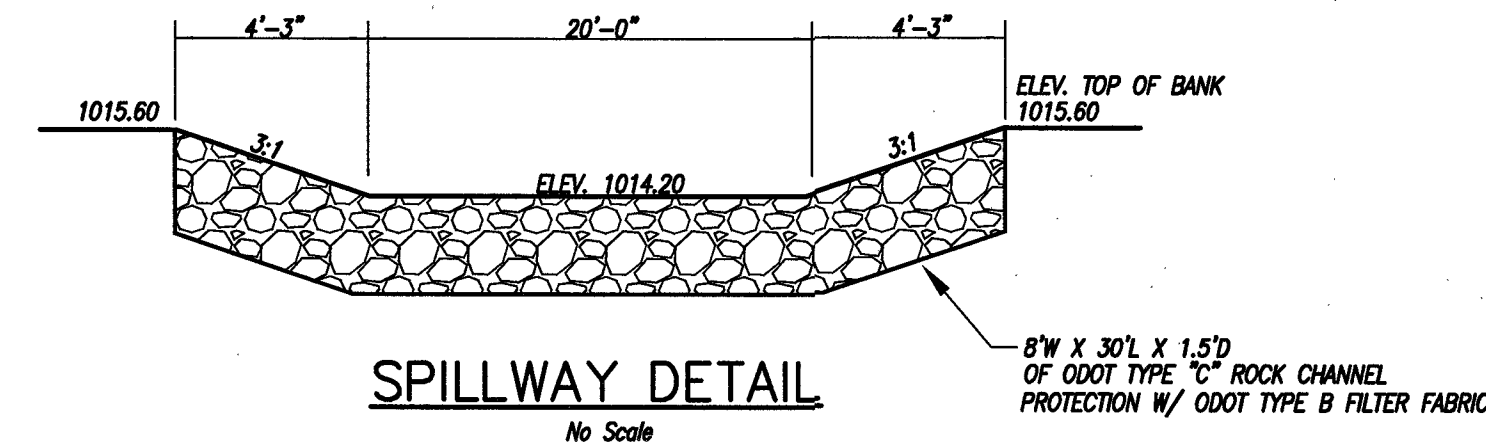
REQUIRED VOLUME=1,000 CF/AC.=1,000*(10.10)=10,100 CF
PROVIDED VOLUME=10,414 CF

SEDIMENT STORAGE ZONE: FOREBAY & MICROPOL

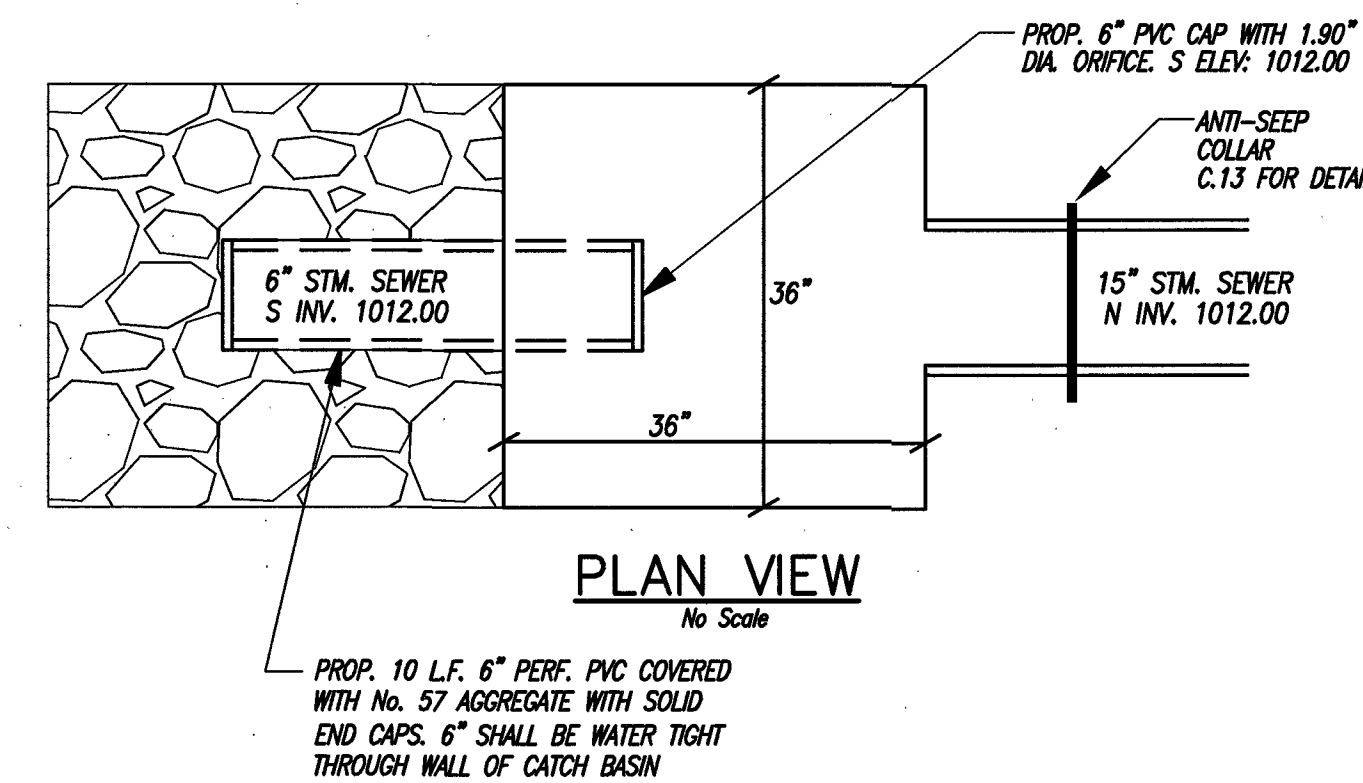
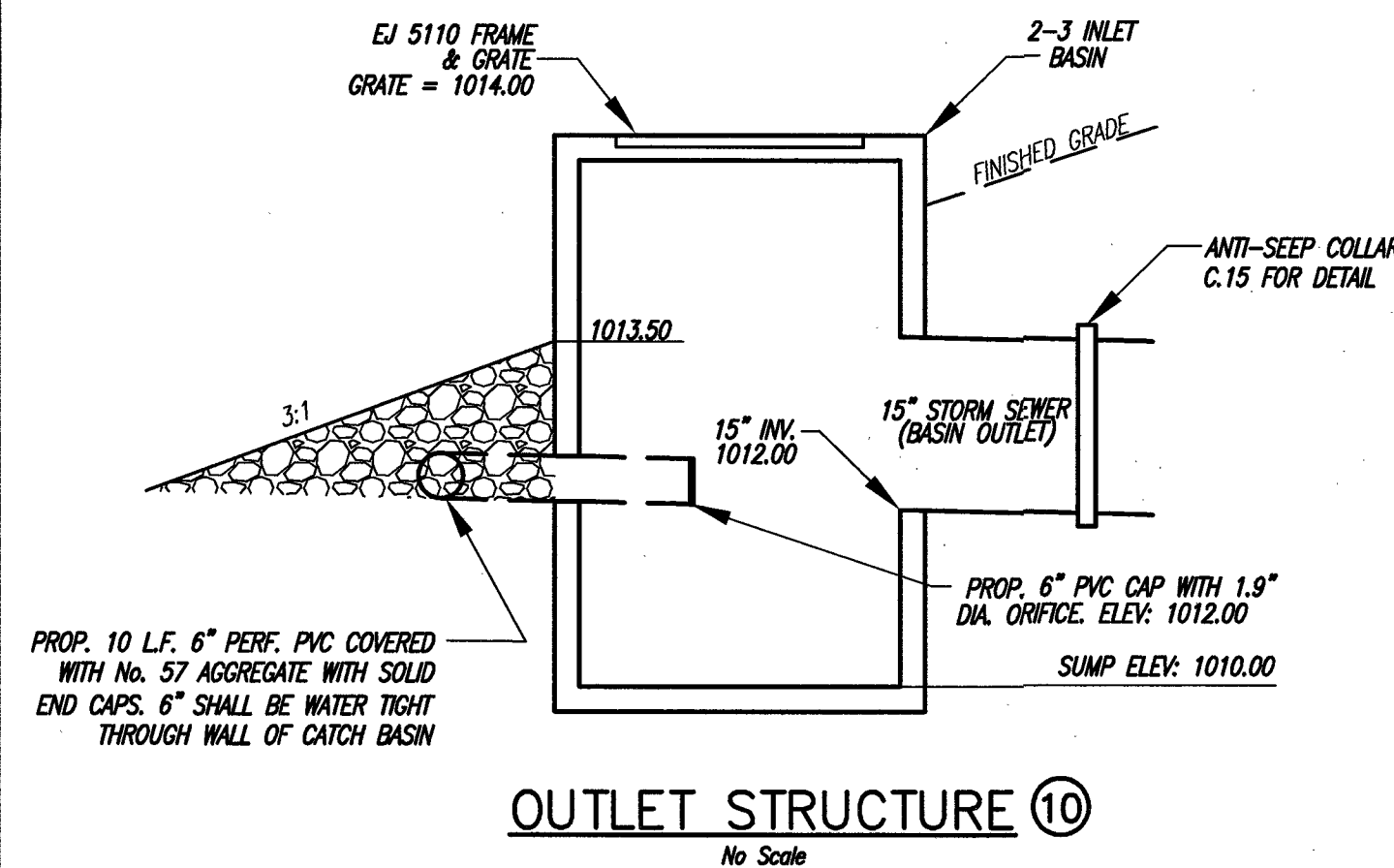
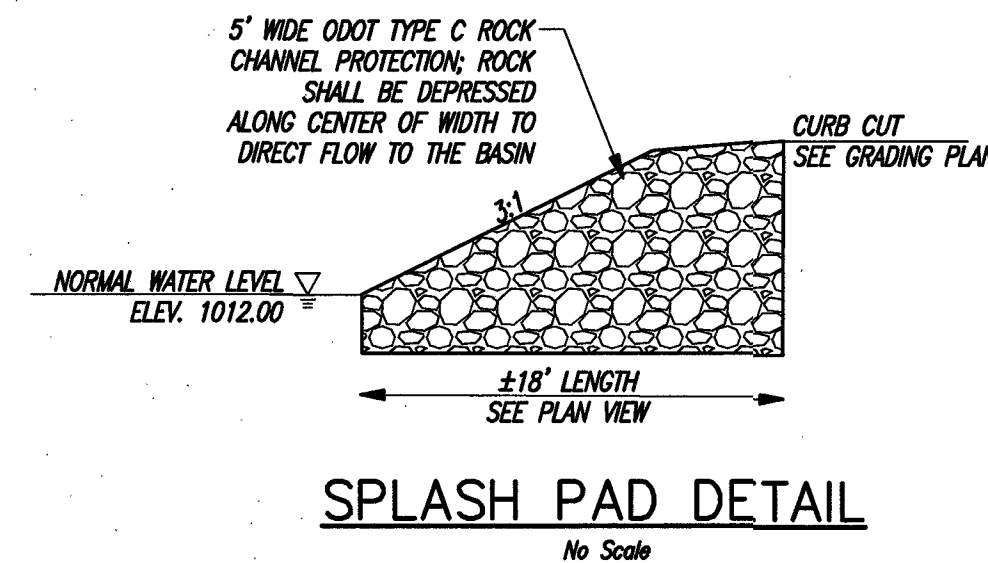
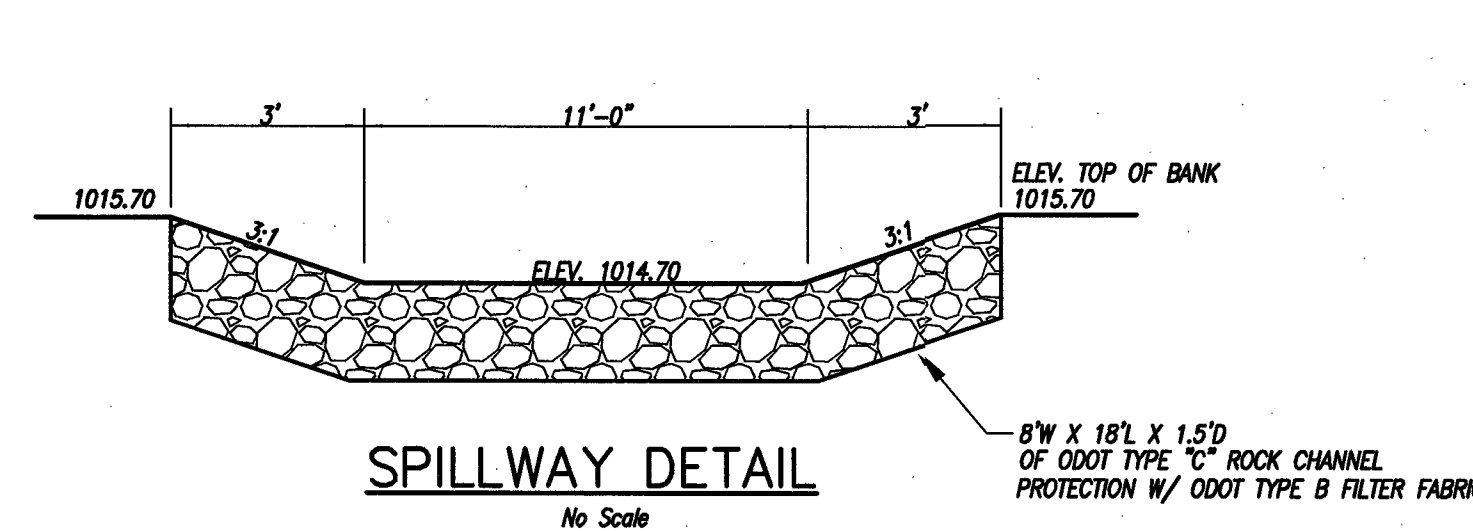
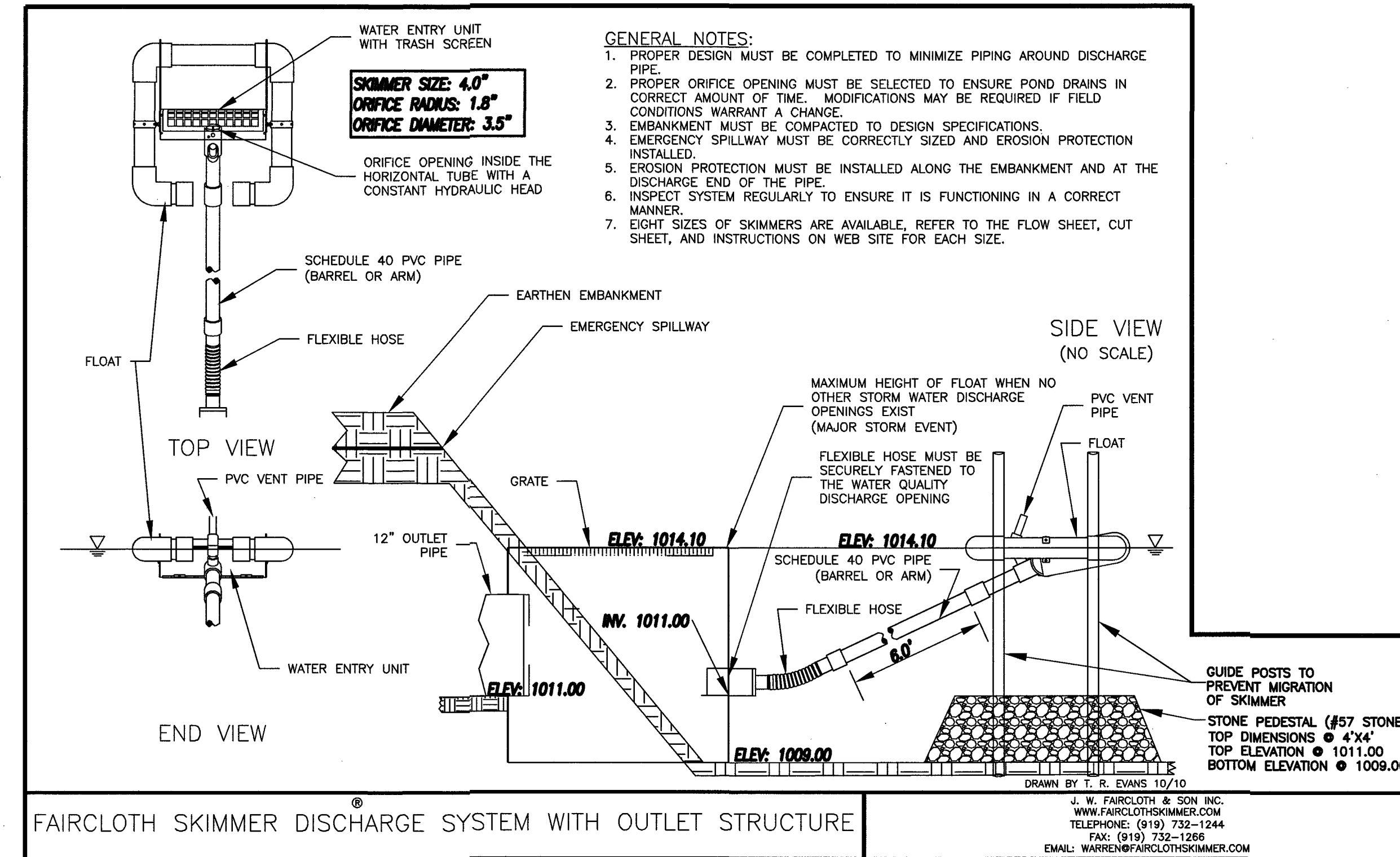
DEWATERING VOLUME

REQUIRED VOLUME=1,800 CF/AC.=1,800*(310.10)=18,180 C.Y.
PROVIDED VOLUME= 46,355 CF

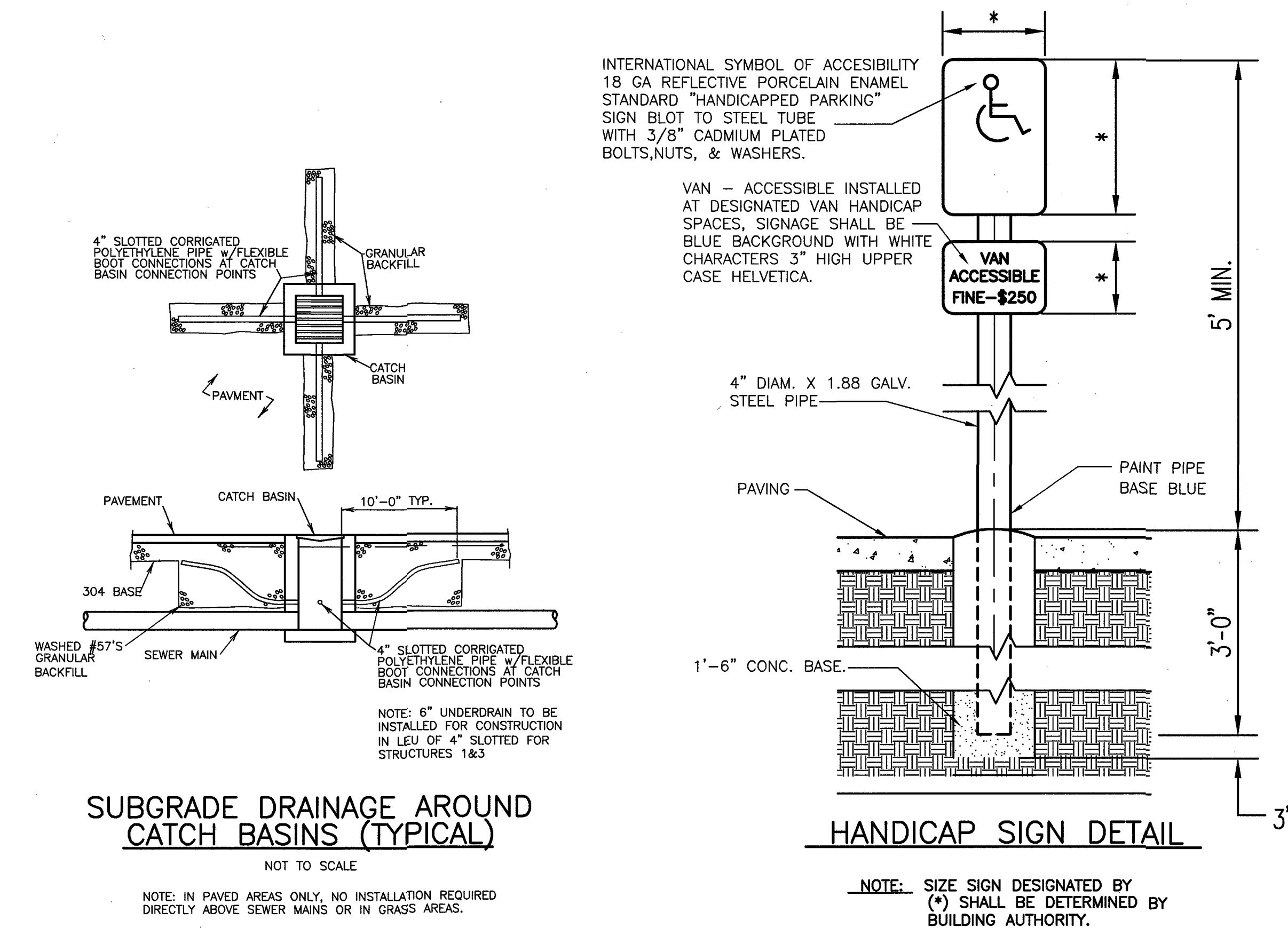
USE OUTLET STRUCTURE RIM TO SERVE AS UPPER LIMIT OF
DEWATERING VOLUME, @ 1014.10



WATER QUALITY BASIN DETAILS- PROPOSED BASIN



WATER QUALITY BASIN DETAILS- FUTURE BASIN



SUBGRADE DRAINAGE AROUND CATCH BASINS (TYPICAL)

NOT TO SCALE

NOTE: IN PAVED AREAS ONLY, NO INSTALLATION REQUIRED DIRECTLY ABOVE SEWER MAINS OR IN GRASS AREAS.

HANDICAP SIGN DETAIL

NOTE: SIZE SIGN DESIGNATED BY (*) SHALL BE DETERMINED BY BUILDING AUTHORITY.

EXHIBIT A
GENERAL CONSTRUCTION NOTES

- CONSTRUCTION OF THE SITE WORK AND UTILITIES SHALL BE GOVERNED BY THE CITY OF HUDSON'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED FOR THE PROJECT.
- THE CONTRACTOR MUST ALERT THE OHIO UTILITY PROTECTION SERVICES AT 1-800-362-2764 AT LEAST 48 HOURS BEFORE ANY EXCAVATION IS TO BEGIN.
- ALL EXISTING APPURTENANCES (UTILITY POLES, VALVES, HYDRANTS, MANHOLES, ETC.) ARE TO BE MAINTAINED BY THE CONTRACTOR UNLESS OTHERWISE SHOWN ON THE PLANS.
- THE DESIGN ENGINEER CERTIFIES THAT ALL UTILITIES ARE SHOWN AS THEY APPEAR ON EXISTING RECORDS OR FIELD LOCATED.
- ALL KNOWN ABOVE AND UNDERGROUND SERVICES HAVE BEEN NOTED ON THE DRAWINGS. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY SERVICES DAMAGED DURING THE CONSTRUCTION OF THE PROJECT WHETHER SHOWN OR NOT ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SERVICE AS SOON AS POSSIBLE AT THE CONTRACTOR'S OWN EXPENSE.
- VIDEO TAPING OF PROJECT SHALL BE DELIVERED AND ACCEPTED BY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF 14 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- NOTIFY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF FORTY-EIGHT HOURS (2 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION.
- A PRECONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS (2 WORKING DAYS) AFTER SUBMISSION OF A MINIMUM OF 6 APPROVED SETS OF PLANS AND ALL SHOP DRAWINGS APPLICABLE TO THE PROPOSED IMPROVEMENTS. A PRECONSTRUCTION MEETING MUST BE HELD PRIOR TO START OF ANY CONSTRUCTION.
- THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED AND LINED WITH ORANGE CONSTRUCTION FENCING 48 HOURS (2 WORKING DAYS) PRIOR TO THE PRECONSTRUCTION MEETING. AREAS BEYOND THE LIMITS OF CLEARING AND GRADING SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC.
- ALL ROAD SURFACES, EASEMENTS, OR RIGHT-OF-WAY DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS ARE TO BE RESTORED ACCORDING TO THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION" AS DIRECTED BY THE CITY OF HUDSON AND/OR ITS ENGINEER.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF HUDSON OR ITS REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL OR ANY OTHER MATERIAL THAT MAY CREATE A HEALTH RISK IS DISCOVERED ON SITE.

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- ALL DISTURBED STORM SEWERS AND/OR APPURTENANCES, SIGNS, GUARD RAILING, MAIL AND/OR PAPER BOXES, FENCES, TREES, LANDSCAPING, OR OTHER ITEMS DISTURBED BY THE CONSTRUCTION SHALL BE RESTORED OR REPAIRED TO AT LEAST THE BEFORE-CONSTRUCTION CONDITION.
- ANY DEFECTS DISCOVERED IN NEW CONSTRUCTION, WORKMANSHIP, EQUIPMENT OR MATERIALS SHALL BE REPAIRED, OR CORRECTED BY APPROVED METHODS AS DIRECTED BY THE CITY OF HUDSON.
- NUCLEAR COMPACTION TESTING SHALL BE REQUIRED FOR ALL FILL AREAS OVER TWO FEET (2') IN DEPTH, AT 6" LIFTS PER ASTM A-1557, 95% MODIFIED.
- APPROVAL BY THE CITY OF HUDSON ENGINEER CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO THE FITNESS, ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS OR SPECIFICATIONS.
- DURING TAPPING OF EXISTING UTILITIES, ANY TRAFFIC CONTROL REQUESTED OR REQUIRED BY THE CITY OF HUDSON WILL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE CITY.
- COMPLIANCE WITH THE OCCUPATIONAL AND SAFETY ACT OF 1970 IS REQUIRED BY ALL CONTRACTORS ON THIS PROJECT.
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- ALL DISTURBED AREAS SHALL RECEIVE 4" OF TOPSOIL AND BE SEEDED AND MULCHED AS PER SECTION 9 - LANDSCAPING AND STREET TREES OF THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- IF MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS, OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AS DIRECTED BY THE CITY OF HUDSON OR ITS ENGINEER AT THE END OF EACH WORK DAY, OR AS REQUIRED DURING THE WORK DAY.
- ALL PROPOSED SLOPES 3:1 OR STEEPER AND ALL EARTHEN DRAINAGE WAYS SHALL RECEIVE JUTE OR EXCELSIOR MATTING AS PER ODOT 667 OR 668.
- ALL STORM SEWERS WITHIN PUBLIC RIGHTS-OF-WAY AND CITY OF HUDSON EASEMENTS SHALL BE PER SECTION 4 - STORM COLLECTION OF THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- ALL PIPES SHALL BE PLACED OVER 4" OF BEDDING. BEDDING MATERIAL SHALL BE AS SPECIFIED IN CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION, FOR THE TYPE OF PIPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE FLOW OF VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE JOB SITE. TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF HUDSON POLICE DEPARTMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TICKETS

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SHALL BE REMOVED AND PROPERLY DISPOSED AT THE EXPENSE OF THE CONTRACTOR.

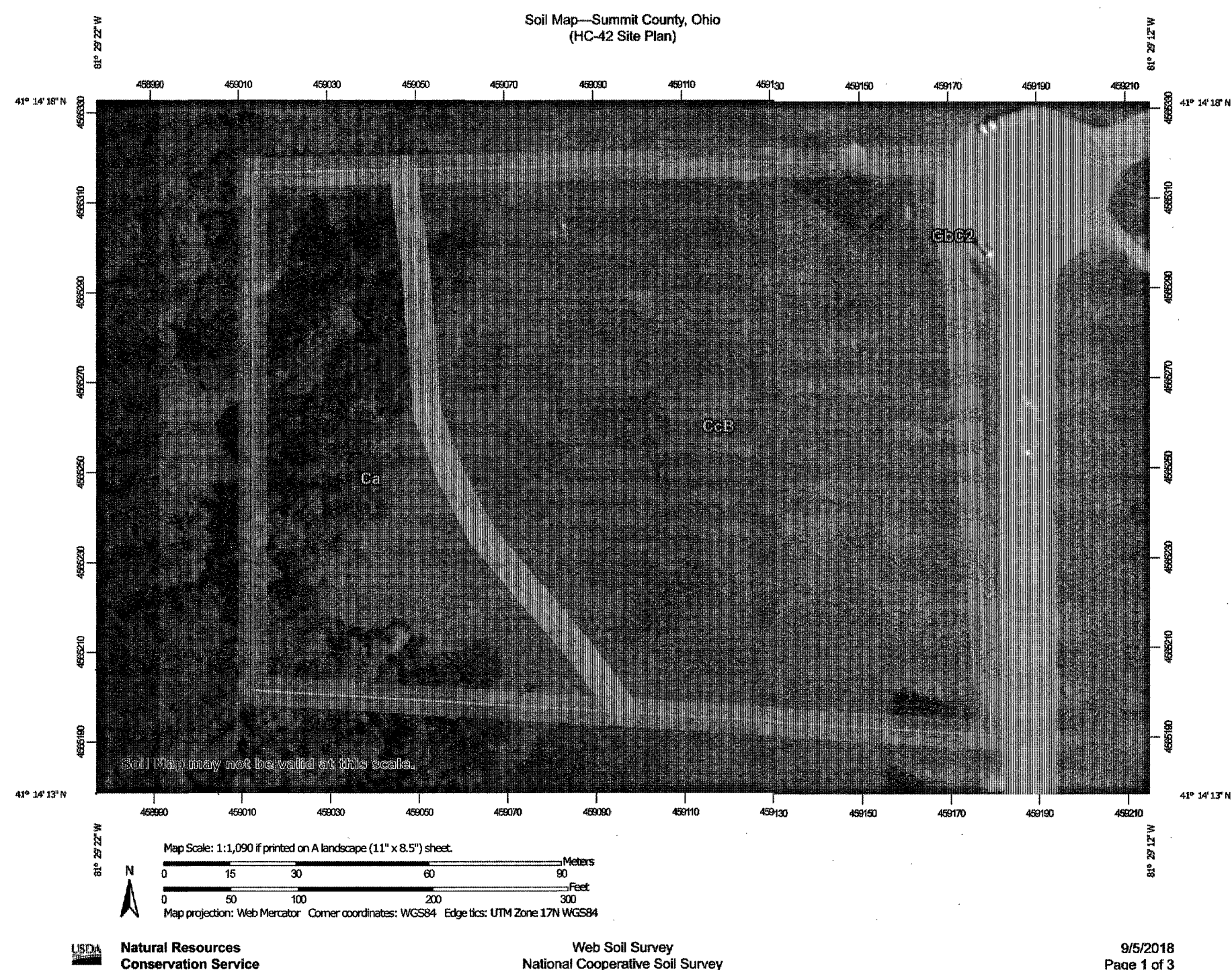
- ALL DELIVERED MATERIALS SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF HUDSON OR OTHER APPLICABLE AGENCIES. THE CITY OF HUDSON, OR ITS REPRESENTATIVE, RESERVES THE RIGHT TO REJECT ANY DELIVERED MATERIAL WHICH DOES NOT CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE CITY OF HUDSON OR ITS REPRESENTATIVE, RESERVES, THE RIGHT TO HALT ALL CONSTRUCTION ACTIVITY FOR NONCONFORMANCE OF PLANS, SPECIFICATIONS AND OTHER APPLICABLE STANDARDS OR REGULATIONS.
- ALL CHANGES TO APPROVED DRAWINGS AND/OR SPECIFICATIONS MUST BE REAPPROVED BY THE CITY OF HUDSON PRIOR TO CONSTRUCTION.
- ALL PAVING MATERIAL MUST BE PROVIDED BY ODOT CERTIFIED SUPPLIER. WRITTEN PROOF SHALL BE REQUIRED UPON DELIVERY OF MATERIALS. THE CERTIFIED MIX DESIGN MUST BE SUBMITTED TO, AND APPROVED BY, THE CITY OF HUDSON PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING.
- CONTRACTOR/DEVELOPER SHALL PROVIDE ALL REQUIRED ROADWAY SIGNAGE AS PER ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES INCLUDING STREET IDENTIFICATION SIGNAGE PER CITY STANDARDS FOR ALL ASPECTS OF THE IMPROVEMENT.
- ALL BONDS AND OR LETTERS OF CREDIT SHALL NOT BE RELEASED OR REDUCED AND NO WATER OR SANITARY SEWER CUSTOMERS CAN BE CONNECTED UNTIL ALL RECORD DRAWINGS HAVE BEEN SUBMITTED, REVIEWED AND APPROVED BY THE CITY OF HUDSON.
- ALL WORK, EXCEPT SIDEWALKS, STREET TREES AND STREET LIGHTS, AS PART OF THESE PLANS SHALL BE COMPLETED, INCLUDING PUNCH LIST ITEMS AND DEFICIENCY WORK WITHIN 1 YEAR OF THE DATE OF APPROVAL BY THE CITY ENGINEER. SIDEWALKS, STREET TREES AND STREET LIGHTS SHALL BE COMPLETED WITHIN TWO YEARS OF THE DATE OF APPROVAL BY THE CITY ENGINEER.
- FAILURE TO COMPLETE THE PROJECT IN ITS ENTIRETY AS APPROVED BY THE PLANNING COMMISSION, INCLUDING PUNCH LIST ITEMS, WILL RESULT IN THE CITY OF HUDSON HOLDING ALL FUTURE ZONING CERTIFICATES UNTIL ALL WORK HAS BEEN COMPLETED AND APPROVED.
- MANUFACTURERS OR SUPPLIERS AFFIDAVIT FOR ALL CONSTRUCTION MATERIALS SHALL BE PROVIDED AS PER THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION PRIOR TO THE START OF CONSTRUCTION.
- THE CONSTRUCTION OF SANITARY SEWERS, WATER MAINS, LIFT STATIONS AND APPURTENANCES IS PROHIBITED UNTIL ALL PLANS HAVE BEEN APPROVED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY.
- ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- ALL SANITARY SEWERS CONSTRUCTED IN SUMMIT COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (SC-DOES) SERVICE DISTRICTS AND SERVED BY SC-DOES SHALL COMPLY WITH SC-DOES REQUIREMENTS.
- SHOP DRAWINGS FOR THE PROPOSED LIGHT FIXTURES SHALL BE ATTACHED TO THE APPROVED LIGHTING PLAN AND SUBMITTED WITH THE SIX SETS OF PLANS AS REQUIRED IN NOTE 8. THE LIGHT FIXTURES SHALL HAVE A RECESSED LAMP, FLAT LENSES AND OPTIONAL HOUSE SHIELDING AVAILABLE. THE CITY MAY REQUIRE HOUSE SHIELDS TO BE ADDED AND OTHER MODIFICATIONS AFTER CONSTRUCTION AT THE EXPENSE OF THE CONTRACTOR.
- THE OWNER SHALL SUBMIT A NOTICE OF INTENT (N.O.I.) APPLICATION TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (E.P.A.) AND OBTAIN AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) OR THE LATEST FEDERAL, STATE AND/OR LOCAL REGULATIONS. THE OWNER SHALL SUBMIT A COPY OF THE N.P.D.E.S. PERMIT TO THE CITY OF HUDSON 48 HOURS (2 WORKING DAYS) PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING.

EXHIBIT B
WATERWORK NOTES
CITY OF HUDSON WATER SERVICE AREA

NOTE: THESE WATER WORK NOTES APPLY TO AREAS OF HUDSON THAT ARE TO BE SERVED WITH CITY OF HUDSON WATER.

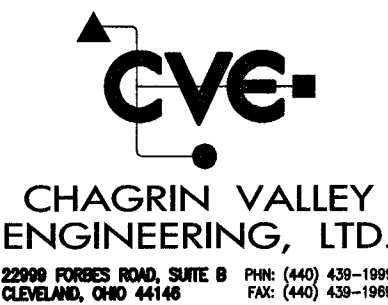
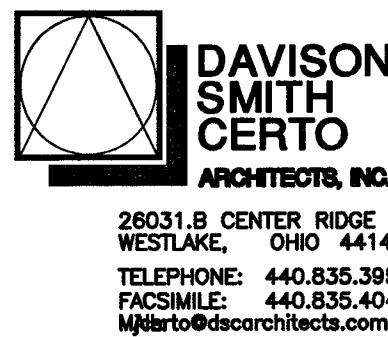
- ALL WATER MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY AND ALL AREAS ALONG THE ROUTE OF THE WATER MAIN. THIS WILL INCLUDE LAWNS, DRIVES, DITCHES, CULVERTS, LANDSCAPING, ETC. AND ANY OTHER AREAS DISTURBED DURING THE CONSTRUCTION PROCESS.
- ALL TESTING SHALL BE IN ACCORDANCE WITH THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION" AND BE COORDINATED WITH THE CITY OF HUDSON. AWWA C-600 PRESSURE TESTING AND C-651 DISINFECTION BY CHLORINATION OF THE WATER MAIN WILL BE REQUIRED.
- ALL PROPOSED TRENCHES LOCATED UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE FILLED WITH LOW STRENGTH MORTAR. THE METHOD OF BACKFILLING AS DIRECTED BY THE ENGINEER, SHALL CONFORM TO ODOT 613 TYPE 1, SLAG OR FLY ASH IS NOT PERMITTED IN MIX. PAVEMENT INCLUDES, BUT IS NOT LIMITED TO, ROADWAY SURFACES, SIDEWALKS, BIKE WAYS, DRIVEWAYS, SHOULDERS, ETC. THE LIMITS OF THE LOW STRENGTH MORTAR SHALL INCLUDE 45° ANGLE OF REPOSE FROM ALL EDGES OF PAVEMENT.
- FIELD STAKING AND RECORD DRAWINGS SHALL BE PROVIDED TO THE CITY BY THE CONTRACTOR, AS SUPERVISED AND STAMPED BY A LICENSED PROFESSIONAL SURVEYOR. RECORD DRAWINGS (AS-BUILTS) IN BOTH REPRODUCIBLE AND DIGITAL FORMAT COMPATIBLE WITH THE CITY OF HUDSON STANDARDS TO BE SUBMITTED TO AND APPROVED BY THE CITY OF HUDSON PRIOR TO UTILITY SERVICE CONNECTIONS BEING MADE.
- A 4' MINIMUM HORIZONTAL CLEARANCE AND A 12' MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE EDGE OF THE WATER MAIN PIPE TO THE EDGE OF THE STORM SEWER PIPE.
- A 10' MINIMUM HORIZONTAL CLEARANCE AND AN 18' MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE EDGE OF THE WATER MAIN PIPE TO THE EDGE OF ALL SANITARY SEWERS AND/OR FORCE MAIN PIPE.
- ALL VALVES, FITTINGS, BENDS, TEES, ETC. SHALL HAVE MEGALUG JOINT RESTRAINTS BY EBBA IRON, INC.
- ALL WATER MAINS WITHIN LOW STRENGTH MORTAR BACKFILL SHALL BE WRAPPED IN POLYETHYLENE AS PER AWWA C-105. OTHER AREAS TO BE WRAPPED IN POLYETHYLENE SHALL BE AS SHOWN ON THE DRAWINGS, AS DETERMINED FROM DIPRA REPORT OR AS REQUIRED BY THE CITY.
- WHERE WATER MAINS CROSS SEWER TRENCHES, THE TRENCH IS TO BE BACKFILLED WITH ODOT 304 CRUSHED LIMESTONE.

- TAPPING SLEEVES SHALL BE ROMAC TYPE, WRAP AROUND STAINLESS STEEL WITH # 316 STAINLESS STEEL BOLTS AND NUTS.
- MANUFACTURER'S AFFIDAVIT: THE MANUFACTURER SHALL FURNISH AN AFFIDAVIT INDICATING THAT ALL PIPE, FITTINGS, VALVES, FIRE HYDRANTS, AND APPURTENANCES HAVE BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE REFERENCED STANDARDS. A COPY OF EACH AFFIDAVIT, INDICATING THE PROJECT ON WHICH THE MATERIAL IS TO BE USED SHALL BE FORWARDED TO THE CITY OF HUDSON PRIOR TO THE PRECONSTRUCTION MEETING BEING SCHEDULED.
- BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. THE CITY MAY GRANT SPECIAL PERMISSION FOR BUILDINGS FOUR STORIES AND HIGHER WITH A FIRE SUPPRESSION SYSTEM.
- PROPOSED FACILITIES SHALL BE DESIGNED TO MAINTAIN A MINIMUM OF 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
- ALL WATER MAINS GREATER THAN 12 INCH DIAMETER SHALL BE LAID TO GRADE WITH HIGH POINTS AND LOW POINTS HAVING ADEQUATE BLOW-OFFS VIA USE OF HYDRANTS.
- FOR ALL NON-RESIDENTIAL WATER SERVICE, A BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER CITY OF HUDSON AND OEPA STANDARDS AND REQUIREMENTS. FOR RESIDENTIAL WATER SERVICE A BACKFLOW PREVENTION DEVICE MAY BE REQUIRED FOR SWIMMING POOLS, IRRIGATION SYSTEMS, ETC. CONTACT THE CITY SERVICE/WATER DISTRIBUTION DEPARTMENT FOR THE REQUIREMENTS AND STANDARDS FOR BACKFLOW PREVENTION, THERMAL EXPANSION CONTROL, ETC.
- ALL WATER METER SETTINGS MUST BE APPROVED BY THE CITY OF HUDSON. METERS SHALL BE MAGNETIC DRIVE, WITH A SCANCODE REMOTE READ, MUST READ IN CUBIC FEET, SET WITH VALVES BEFORE AND AFTER THE METER. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO PROVIDE AND RUN A REMOTE WATER METER WIRE FROM THE PROPOSED WATER METER LOCATION TO THE VICINITY OF THE PROPOSED ELECTRIC METER LOCATION. CONTACT THE CITY SERVICE/WATER DISTRIBUTION DEPARTMENT FOR THE COMPLETE STANDARDS AND REQUIREMENTS FOR WATER METERS, PRESSURE REGULATORS, ETC.
- FOR NEW WATER MAIN CONSTRUCTION THE DRAWINGS SHALL HAVE BEEN REVIEWED BY THE OHIO EPA AND WRITTEN APPROVAL RECEIVED PRIOR TO THE START OF CONSTRUCTION.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ca	Canadice silty clay loam	0.7	4.1%
CbB	Canadice silt loam, 2 to 6 percent slopes	11.5	71.5%
GbB	Geeburg silt loam, 2 to 6 percent slopes	2.2	13.5%
GbC2	Geeburg silt loam, 6 to 12 percent slopes, moderately eroded	0.5	3.1%
Ln	Lorain silty clay loam	0.5	3.1%
Wt	Willetts muck	0.8	4.8%
Totals for Area of Interest		16.1	100.0%



Date:
FOR PERMIT July 18, 2019
CITY COMMENT RESPONSE
Aug 19, 2019

Approved By:
Approved Date:
Scale:
AS SHOWN

MANESCHI & BENEDETTI PROPERTIES, LLC
HUDSON INDUSTRIAL SITE
HUDSON CROSSING PARKWAY
HUDSON, OHIO
STANDARD DETAILS



Developer Job Number:

Consultant Job Number:

17.056

Drawing Number:

C.17