

**Vicinity Map**

Scale: 1" = 500'

**General Notes**

- Contractor and materials shall comply with all local, state and federal codes, ordinances, rules, regulations, orders and other legal requirements of municipal authorities which bear on the performance of the work.
- The contractor is cautioned that the location, elevation, size and/or material type of existing utilities as shown on these plans is based on records of various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor is responsible for the accurate location, elevation, size and/or material type of all utilities and hazards whether shown or not. The contractor must contact the appropriate utility company at least 48 hours before any excavation to request exact field location, elevation, size and/or material type of utilities.
- Material and installation specifications shall be in conformance with applicable portions of the INDOT Standard Specifications, (latest edition), memorandums and supplements unless specifically stated otherwise on these plans, contract documents or local code.
- The contractor shall repair and/or replace all existing utilities damaged as a result of this project.
- The contractor shall be responsible for notifying all occupants of interruption to their utilities that will be caused by this project.
- Any existing unconsolidated fill and/or utility trenches shall be tested for compaction prior to paving and/or slab construction. Excavation of unconsolidated material and compaction of new material in these areas may be required to prevent future settlement.

**Surveyor's Notes**

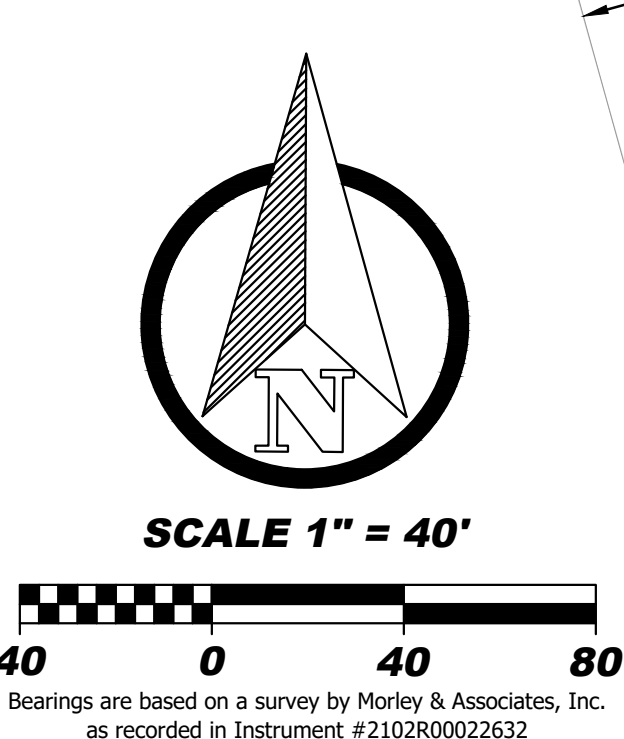
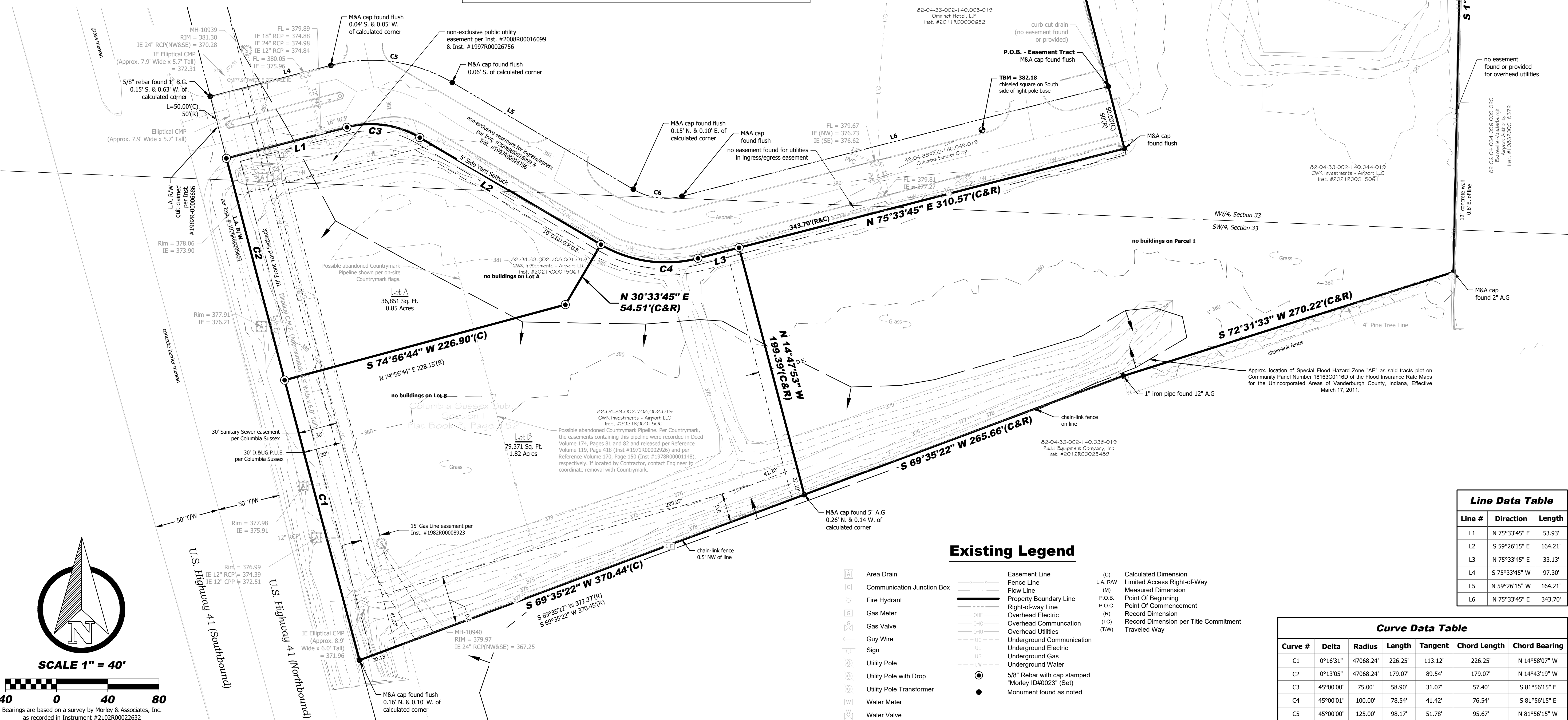
- Other easements, rights-of-way and encumbrances may exist and affect Surveyed Property which are not shown.
- TABLE A, ITEM 2: No addresses were noted on Surveyed Property. Per county mapping the addresses are as follows: Lot A - 7027 N. Highway 41 Lot B - 7007 N. Highway 41 Parcel 1 - 7037 N. Highway 41
- TABLE A, ITEM 3: FLOOD HAZARD STATEMENT: Portions of the within described tracts of land lie within the Special Flood Hazard Zone "A" as said tracts plots on Community Panel Number 18163C0116D of the Flood Insurance Rate Maps for the Unincorporated Areas of Vanderburgh County, Indiana, Effective March 17, 2011.
- TABLE A, ITEM 6: No zoning report was provided.
- TABLE A, ITEM 11a: No underground utility plans or reports were provided. Underground utilities shown were located as requested via the 811 information listed below.
- Field work was completed on May 17, 2021.
- Elevations are based on NAVD88 derived from an on-site OPUS Solution. TBM = 382.18  
Chiseled Square on South side of light pole base.

**Indiana Underground Plant Protection Services**  
Notified: May 3, 2021

**Ticket Numbers: 2105031720, 2105031747 & 2105031765**

The underground utility information shown is approximate and has been located from marking placed the ground by the Indiana Underground Plant Protection Service, drawings provided by the operating utility companies and visible above ground features and may not represent all the underground utility lines that may be in place. No on site pot holing has been performed to verify the locations or depths. All contractors are required by law to contact the underground locate service prior to any digging or disturbance of the surface.

A. Utilities as marked on ground shown on survey.  
B. Contractor is responsible to contact the above at 811 prior to any work on site.



**Existing Legend**

- |  |                            |  |                             |          |                                       |
|--|----------------------------|--|-----------------------------|----------|---------------------------------------|
|  | Area Drain                 |  | Easement Line               | (C)      | Calculated Dimension                  |
|  | Communication Junction Box |  | Fence Line                  | L.A./R/W | Limited Access Right-of-Way           |
|  | Fire Hydrant               |  | Flow Line                   | (M)      | Measured Dimension                    |
|  | Gas Meter                  |  | Property Boundary Line      | P.O.B.   | Point Of Beginning                    |
|  | Gas Valve                  |  | Right-of-way Line           | P.O.C.   | Point Of Commencement                 |
|  | Guy Wire                   |  | Record Dimension            | (R)      | Record Dimension                      |
|  | Sign                       |  | Overhead Communication      | (TC)     | Record Dimension per Title Commitment |
|  | Utility Pole               |  | Overhead Electric           | (TW)     | Traveled Way                          |
|  | Utility Pole with Drop     |  | Overhead Utilities          |          |                                       |
|  | Utility Pole Transformer   |  | Underground Communication   |          |                                       |
|  | Water Meter                |  | Underground Electric        |          |                                       |
|  | Water Valve                |  | Underground Gas             |          |                                       |
|  |                            |  | Underground Water           |          |                                       |
|  |                            |  | 5/8" Rebar with cap stamped |          |                                       |
|  |                            |  | Monument found as noted     |          |                                       |

**Line Data Table**

Line #	Direction	Length
L1	N 75°33'45" E	53.93'
L2	S 59°26'15" E	164.21'
L3	N 75°33'45" E	33.13'
L4	S 75°33'45" W	97.30'
L5	N 59°26'15" W	164.21'
L6	N 75°33'45" E	343.70'

**Curve Data Table**

Curve #	Delta	Radius	Length	Tangent	Chord Length	Chord Bearing
C1	0°16'31"	47068.24'	226.25'	113.12'	226.25'	N 14°43'19" W
C2	0°13'05"	47068.24'	179.07'	89.54'	179.07'	N 14°43'19" W
C3	45°00'00"	75.00'	58.90'	31.07'	57.40'	S 81°56'15" E
C4	45°00'01"	100.00'	78.54'	41.42'	76.54'	S 81°56'15" E
C5	45°00'00"	125.00'	98.17'	51.78'	95.67'	N 81°56'15" W
C6	45°00'01"	50.00'	39.27'	20.71'	38.27'	S 81°56'15" E

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812.464.9589 fax 812.464.2514 fax  
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Store-N-Lock  
7007, 7027, & 7037  
US 41 N.

**Civil**  
Existing Conditions

No.	By	Date
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**Revisions**  
Scale: 1" = 40'

Designed By: JEM	Job Number: 11586.4.001-B
Drawn By: KJL	Date: 11-29-2022
Filename: 11586 - Civil Base	
Sheet Number: <b>C-100</b>	

**General Notes**

- Contractor and materials shall comply with all local, state and federal codes, ordinances, rules, regulations, orders and other legal requirements of municipal authorities which bear on the performance of the work.
- The contractor is cautioned that the location, elevation, size and/or material type of existing utilities as shown on these plans is based on records of various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor is responsible for the accurate location, elevation, size and/or material type of all utilities and hazards whether shown or not. The contractor must contact the appropriate utility company at least 48 hours before any excavation to request exact field location, elevation, size and/or material type of utilities.
- Material and installation specifications shall be in conformance with applicable portions of the INDOT Standard Specifications, (latest edition), memorandums and supplements unless specifically stated otherwise on these plans, contract documents or local code. All pipe lengths are measured center of structure to center of structure. Pipes ending in flared end sections shall be measured to the end of the pipe.
- Design pipe slopes are calculated from the center of structure to the center structure, or end of pipe for flared end sections. Construction pipe slopes may vary slightly if the structure cross slope does not match the design pipe slope. Flared end section slopes shall match design pipe slopes.
- The contractor shall repair and/or replace all existing utilities damaged as a result of this project.
- The contractor shall be responsible for notifying all occupants of interruption to their utilities that will be caused by this project.
- Areas exposed by excavation or stripping and on which subgrade preparations are to be performed shall be scarified to minimum depth of 8" and compacted to minimum of 95% of optimum density, in accordance with ASTM D 698 (or 92% of optimum density, in accordance with ASTM D 1557), at a moisture content of not less than 1% below and not more than 3% above the optimum moisture content. These areas shall then be profiled to detect any areas of insufficient compaction, soft and yielding material. Profiled shall be accomplished by making a minimum of two (2) complete passes with a fully-loaded tandem-axle dump truck, or approved equivalent, in each longitudinal and perpendicular directions under the supervision and direction of a field geotechnical engineer. Areas of failure shall be excavated and re-compacted as stated above.
- Fill materials used in preparation of subgrade shall be placed in lifts or layers not to exceed 8" loose measure and compacted to a minimum density of 95% of optimum density, in accordance with ASTM D 698, (or 92% of the optimum density, in accordance with ASTM D 1557) at a moisture content of not less than 1% below and not more than 3% above the optimum moisture content.
- All dirt work graded slopes to be no greater than 4:1, unless otherwise noted on these drawings.
- Any existing unconsolidated fill and/or utility trenches shall be tested for compaction prior to paving and/or slab construction. Excavation of unconsolidated material and compaction of new material in these areas may be required to prevent future settlement.
- Part of the within described tract of land lies within that special Flood Zone AE as said tracts plots on Community Panel No. 180256 0128 D, being Map No. 18163C0116D of the Flood Insurance Rate Maps for Vanderburgh County, Indiana, dated March 17, 2011.

**Site Grading Guidelines**

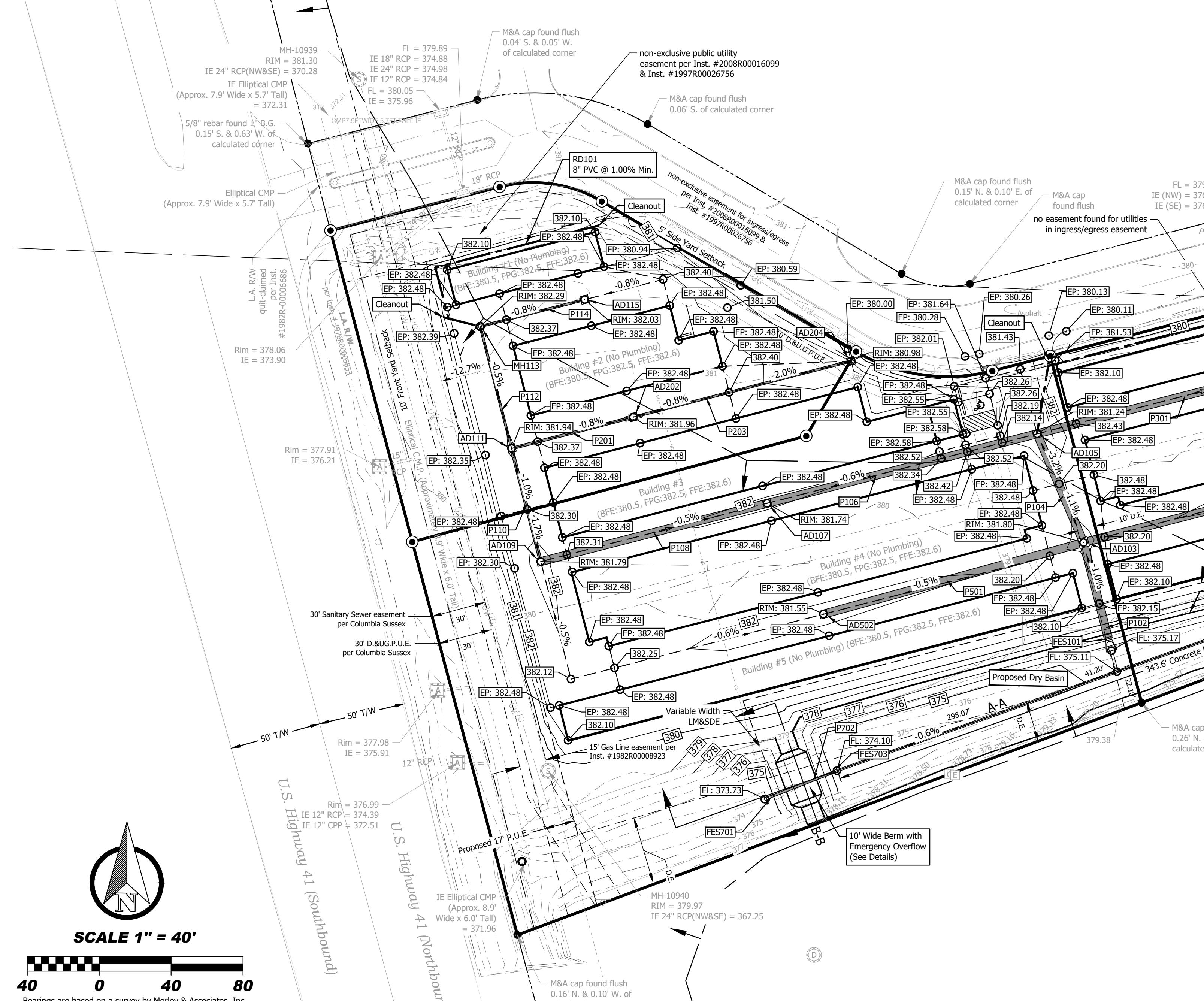
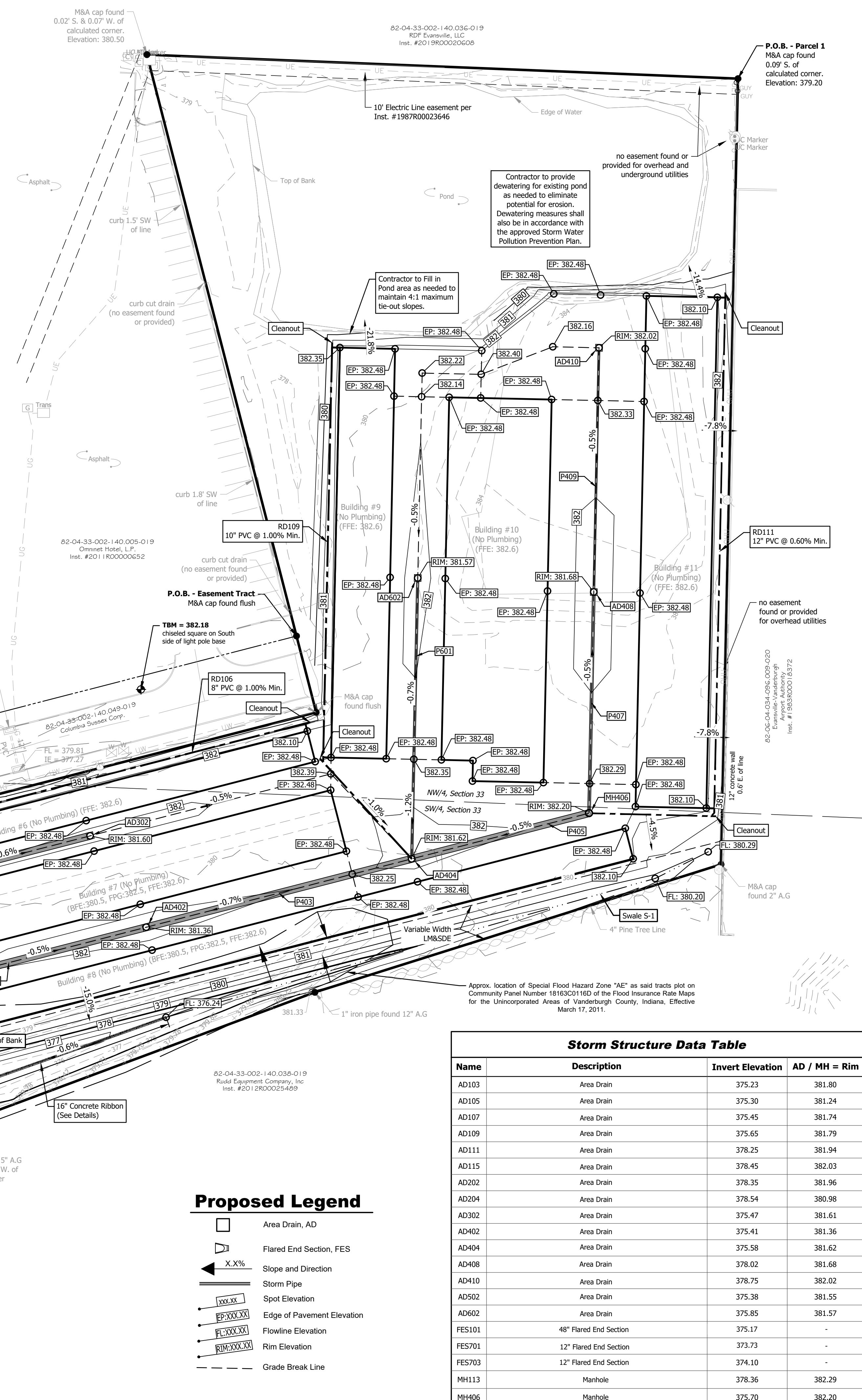
- Preferred minimum pavement slope = 0.5% flow.
- Slope entrance/exit to public streets with curb and gutter to drain into the street. Slope entrance/exit to public streets without curb and gutter to drain away from the street.
- All surfaces shall be graded to drain.
- Local, state, and national laws and guidelines shall take precedence over design information if in conflict. Contractor shall inform client and Morley and Associates, Inc. in writing if any conflicts arise.
- Ramps shall be equipped with handrails on both sides if the rise is greater than six inches or if the ramp's length is greater than six feet.
- Maximum cross slopes shall be 1:50 (2.0%).
- Changes in level 1/4 in. or less may be vertical without edge treatment. Changes in level between 1/4 in. and 1/2 in. shall be beveled with a slope no greater than 1:2. Changes in level greater than 1/2 in. shall incorporate a "ramp". Maximum slope on ramp shall be 1:12.
- Landings shall be incorporated in ramps so that the maximum vertical rise between landings is no greater than 30 inches. Landings shall be a minimum of 60 inches in length and as wide as the ramp (36 inches min.)
- Landings at a change in direction shall be 60 inches wide and 60 inches long (minimum).
- Maximum slope in an ADA parking space and its aisle shall be 1:50 (2%).
- All areas of new facilities and altered portions of existing facilities shall comply with the Americans with Disabilities Act (ADA) Accessibility Guidelines.

**Storm Drainage Maintenance**

The individual lot owner(s) shall be responsible, including financially, for maintaining that part of the storm water drainage system and its easements which exist on his or her property in proper working order including:

- Mowing grass, controlling weeds and maintaining the designed cover of the waterways, storage basins, and easements in accordance with applicable ordinances.
- Keeping all parts of the storm water drainage system operating as designed and constructed; and free of all trash, debris, and obstructions to the flow of water.
- Maintaining that part of the storm water drainage system which lies on his or her property in accordance with the conditions described on the approved street and/or drainage plans on file in the County Surveyor's Office; and in compliance with the County Drainage Ordinance.
- Preventing all persons or parties from causing any unauthorized alterations, obstructions, or detrimental actions from occurring to any part of the storm water drainage system and easement which lies on his or her property.
- Proposed seed mixture to include 6.5 lbs of Kentucky 31 Fescue and 1.5 lbs of Perennial Ryegrass per 100 square feet.

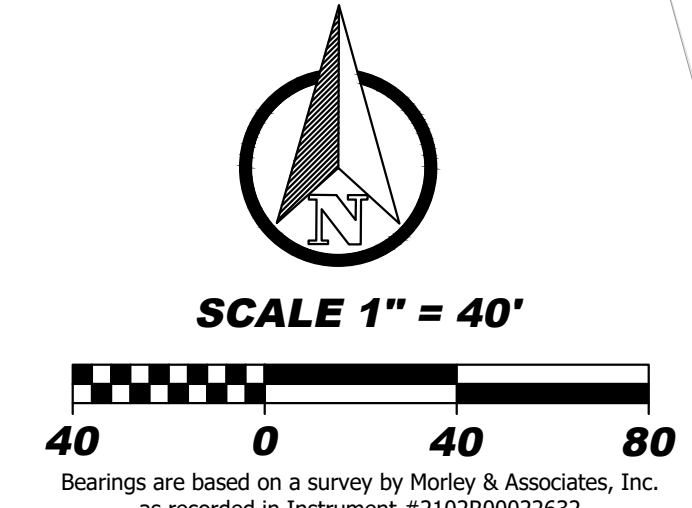
Pipe Name	Size and Type	Length	Slope	US IE	DS IE
P102	48" Corrugated HDPE Pipe	55.2	0.10%	375.23	375.17
P104	48" Corrugated HDPE Pipe	65.8	0.10%	375.30	375.23
P106	48" Corrugated HDPE Pipe	155.0	0.10%	375.45	375.30
P108	48" Corrugated HDPE Pipe	130.0	0.15%	375.65	375.45
P110	18" Corrugated HDPE Pipe	65.0	0.15%	378.25	378.15
P112	12" Corrugated HDPE Pipe	70.0	0.15%	378.36	378.25
P114	12" Corrugated HDPE Pipe	60.0	0.15%	378.45	378.36
P201	15" Corrugated HDPE Pipe	70.0	0.15%	378.35	378.25
P203	12" Corrugated HDPE Pipe	125.0	0.15%	378.54	378.35
P301	48" Corrugated HDPE Pipe	170.0	0.10%	375.47	375.30
P401	48" Corrugated HDPE Pipe	180.0	0.10%	375.41	375.23
P403	48" Corrugated HDPE Pipe	173.9	0.10%	375.58	375.41
P405	48" Corrugated HDPE Pipe	116.2	0.10%	375.70	375.58
P407	18" Corrugated HDPE Pipe	140.3	0.25%	378.02	377.67
P409	12" Corrugated HDPE Pipe	154.9	0.15%	378.75	378.52
P501	48" Corrugated HDPE Pipe	150.0	0.10%	375.38	375.23
P601	15" Corrugated HDPE Pipe	178.2	0.15%	375.85	375.58
P702	12" Corrugated HDPE Pipe	33.1	1.12%	374.10	373.73
RD101	8" PVC Pipe	138.5	1.00%	379.67	378.28
RD106	8" PVC Pipe	342.8	1.00%	378.73	375.30
RD109	10" PVC Pipe	346.2	1.00%	379.04	375.58
RD111	12" PVC Pipe	410.2	0.60%	378.16	375.70



Name	Description	Invert Elevation	AD / MH = Rim
AD103	Area Drain	375.23	381.80
AD105	Area Drain	375.30	381.24
AD107	Area Drain	375.45	381.74
AD109	Area Drain	375.65	381.79
AD111	Area Drain	378.25	381.94
AD115	Area Drain	378.45	382.03
AD202	Area Drain	378.35	381.96
AD204	Area Drain	378.54	380.98
AD302	Area Drain	375.47	381.61
AD402	Area Drain	375.41	381.36
AD404	Area Drain	375.58	381.62
AD408	Area Drain	378.02	381.68
AD410	Area Drain	378.75	382.02
AD502	Area Drain	375.38	381.55
AD602	Area Drain	375.85	381.57
FES101	48" Flared End Section	375.17	-
FES701	12" Flared End Section	373.73	-
FES703	12" Flared End Section	374.10	-
MH113	Manhole	378.36	382.29
MH406	Manhole	375.70	382.20

**Proposed Legend**

- Area Drain, AD
- ▭ Flared End Section, FES
- ← X.X% Slope and Direction
- Storm Pipe
- Spot Elevation
- Edge of Pavement Elevation
- Flowline Elevation
- Rim Elevation
- - - - - Grade Break Line



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**Civil**  
Grading and Drainage Plan

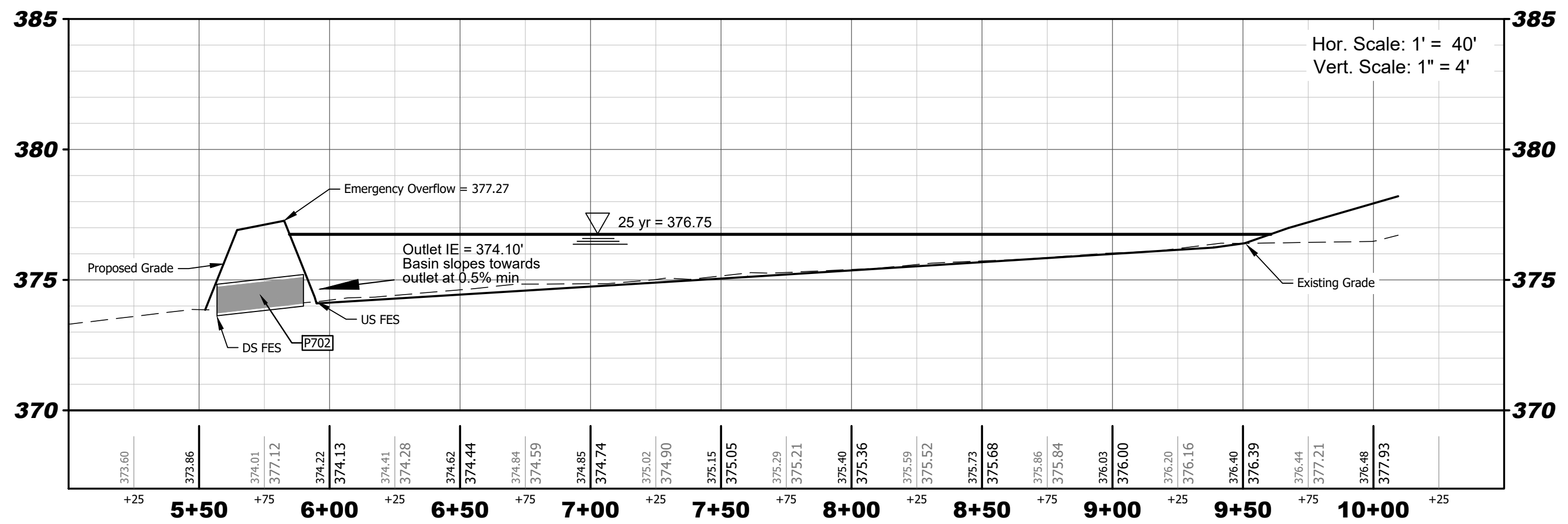
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No.	By	Date
<b>Revisions</b>		
Scale: 1" = 40'		
Designed By:	JEM	Job Number: 11586.4.001-B
Drawn By:	KJL	Date: 11-29-2022
Filename:	11586 - Civil Base	
Sheet Number:	<b>C-102</b>	

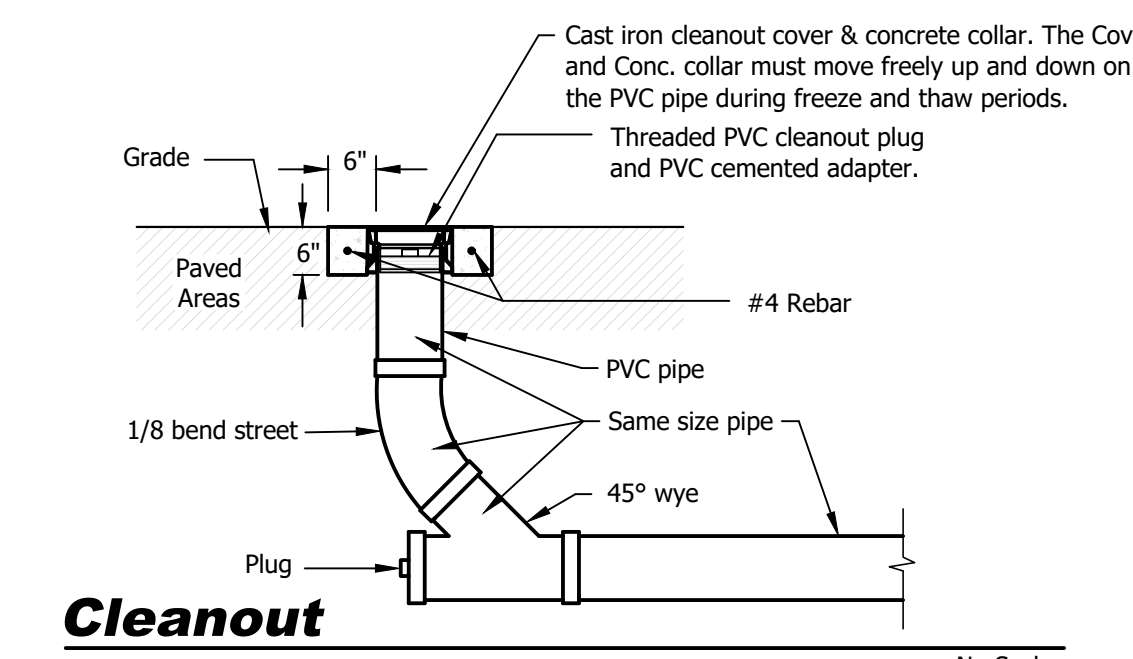
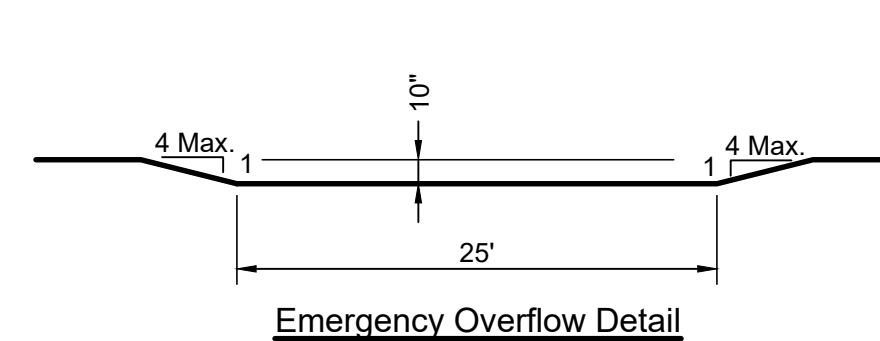
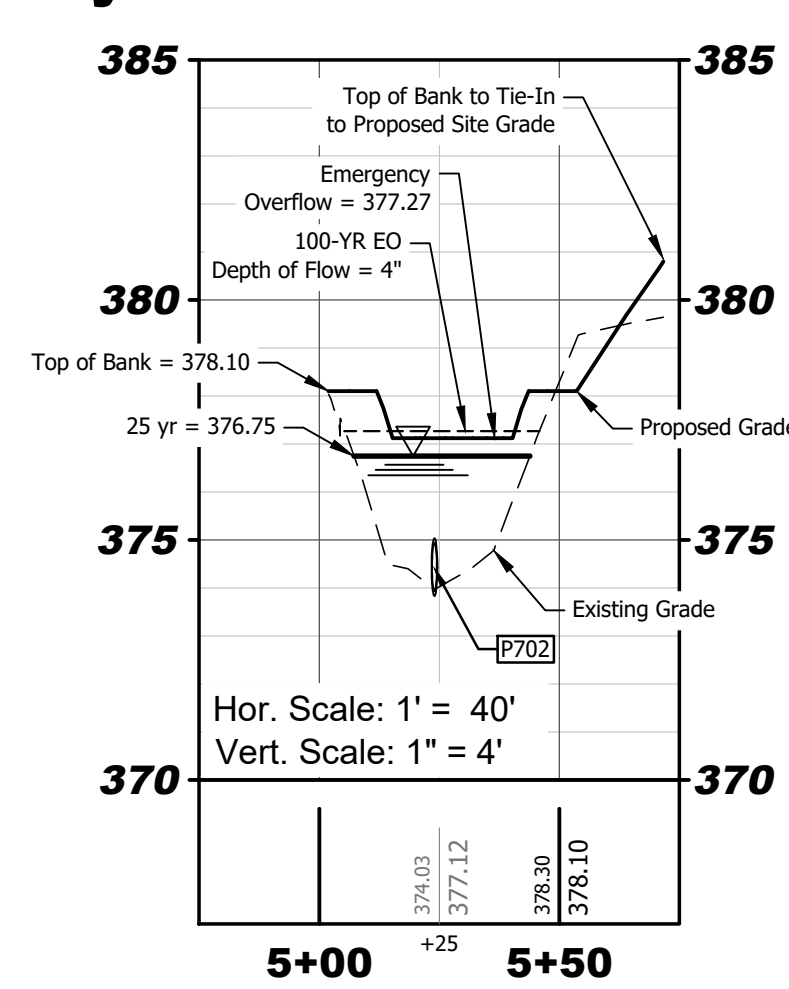




### Dry Basin Cross Section A-A

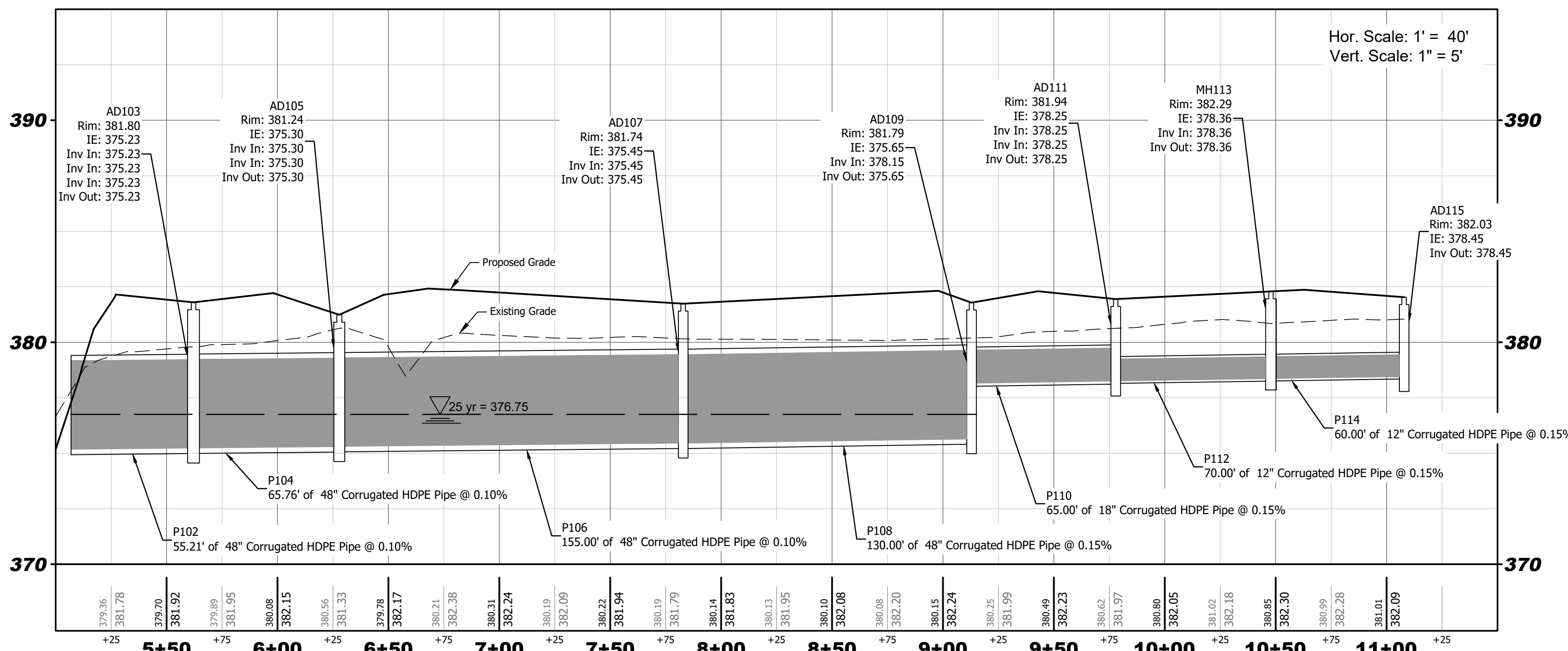


### Dry Basin Cross Section B-B

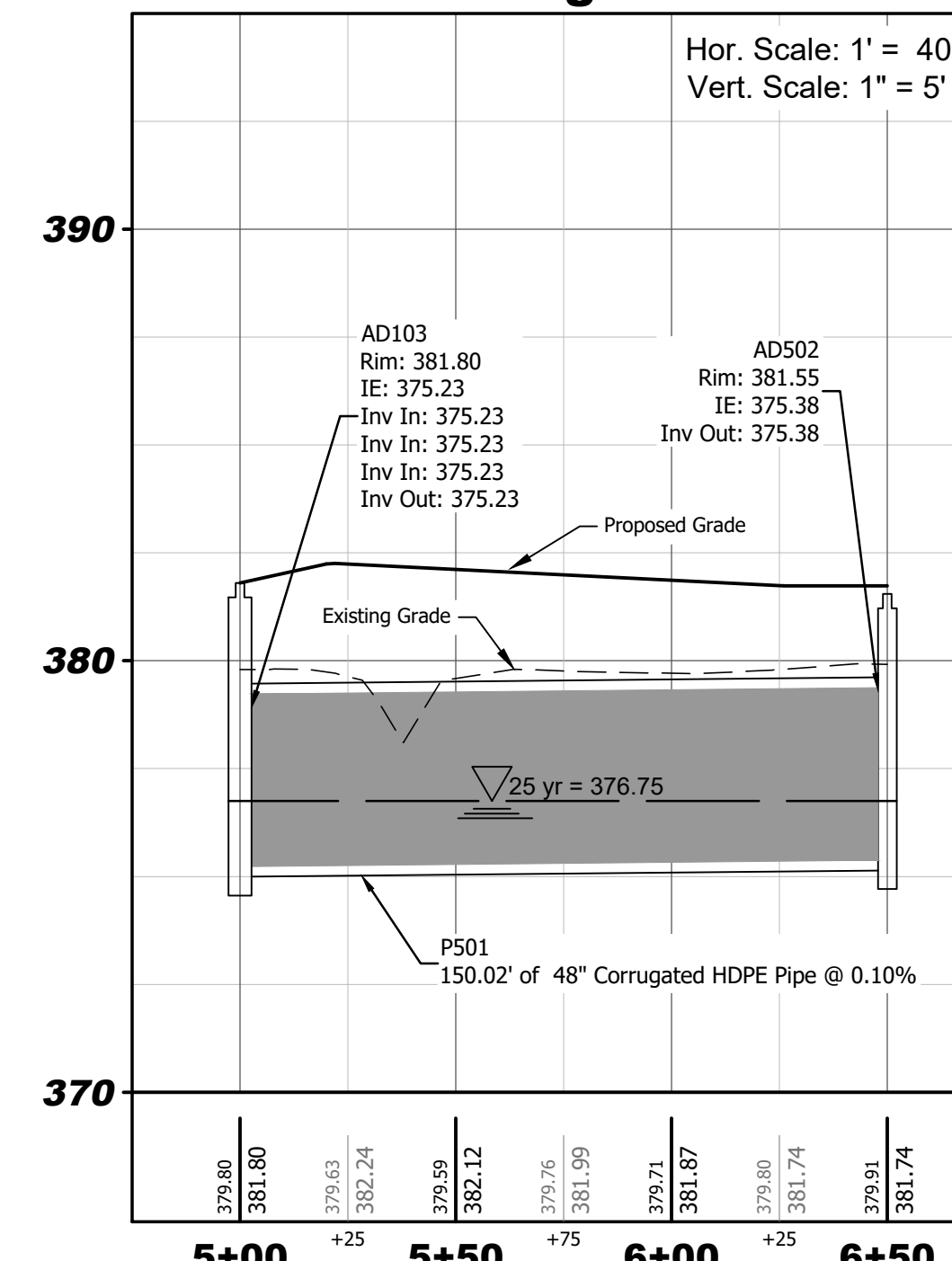


Swale Capacity Table																	
		Side Slope = 3		Manning's Coefficient = 0.035													
Swale	Subbasin	Q(100)	Channel	Full Depth	Slope	Slope	Length	Channel	Bottom	Wetted	Area	Hydraulic	Hydraulic	Travel	US	DS	
no.	no.	cfs	Capacity	Velocity	(ft/s)	(%)	(ft)	Depth	Width	Perimeter	(ft²)	Radius	Depth	Time	Elev.	Elev.	
S-1	Fortion of 22	0.30	1.05	1.50	0.29	0.011	1.13	380.0	0.25	2.00	3.56	0.49	0.19	0.20	3.99	380.39	376.34

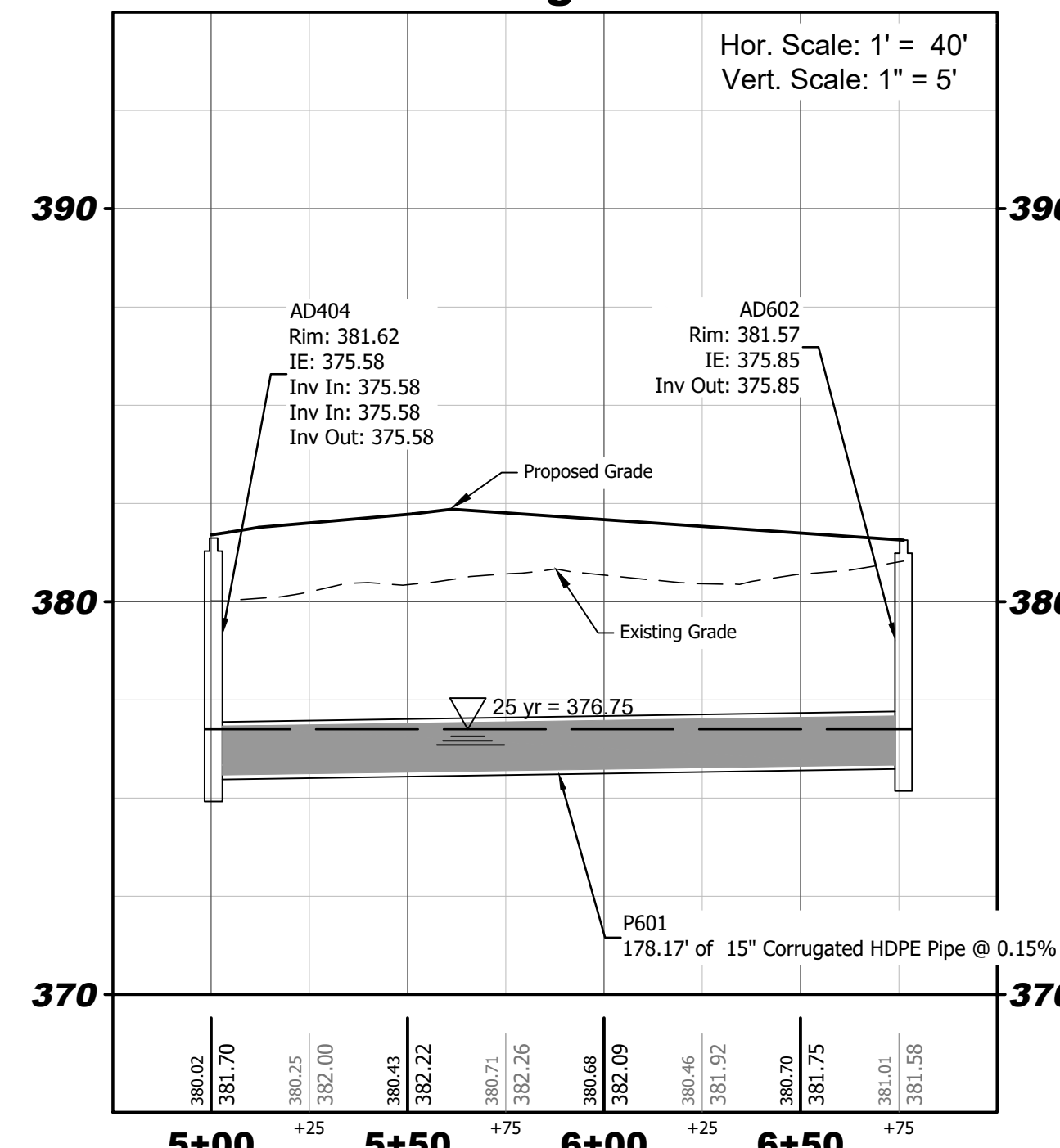
### Storm Sewer Alignment 1 Profile



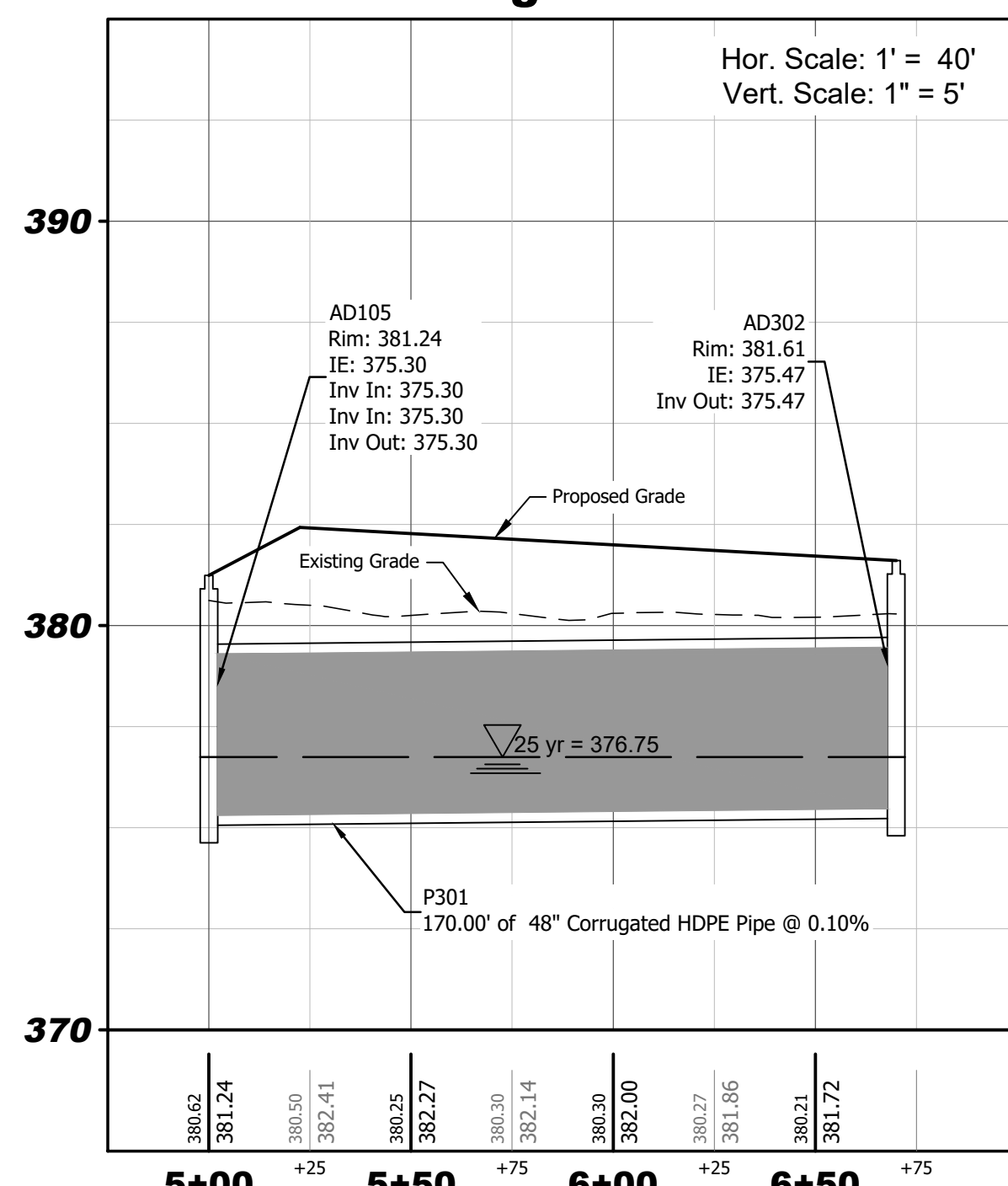
### Storm Sewer Alignment 4 Profile



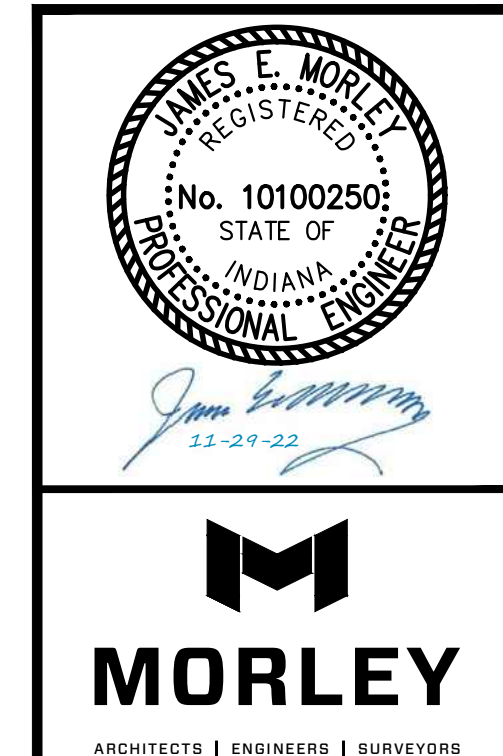
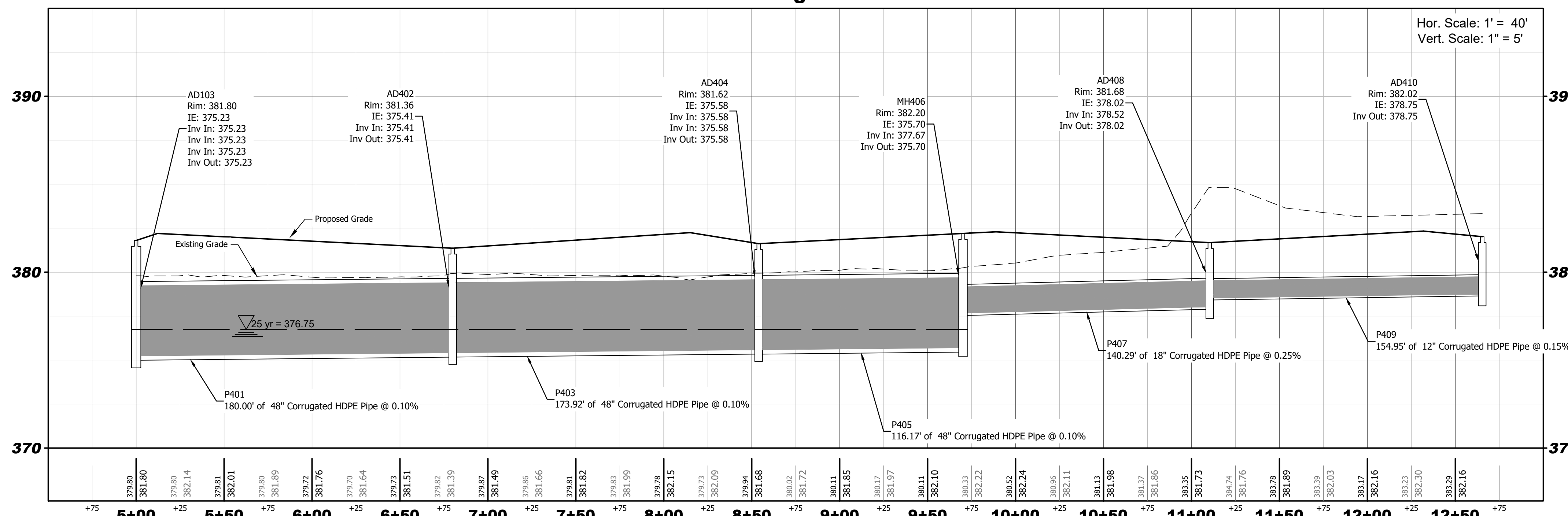
### Storm Sewer Alignment 5 Profile



### Storm Sewer Alignment 2 Profile



### Storm Sewer Alignment 3 Profile



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Civil  
Grading and Drainage  
Details

No.	By	Date

Revisions

Scale: As Noted

Designed By: JEM Job Number: 11586.4.001-B  
Drawn By: KJL Date: 11-29-2022

11586 - Civil Base  
Sheet Number:  
**C-502**