

STEWART

421 FAYETTEVILLE ST. STE 400 FIRM LICENSE # C-1051
RALEIGH, NC 27601 www.stewartinc.com
T 919.380.8750 PROJECT # X16037

Client:



HABITAT FOR HUMANITY
3815 LATROBE DRIVE
CHARLOTTE, NC 28211

Project:

MILHAVEN LANE SUBDIVISION

5930 MILHAVEN LANE
CHARLOTTE, NC 28269

Vicinity map:



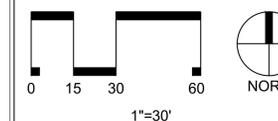
Seal:



Issued for:

No. Date Description

No.	Date	Description

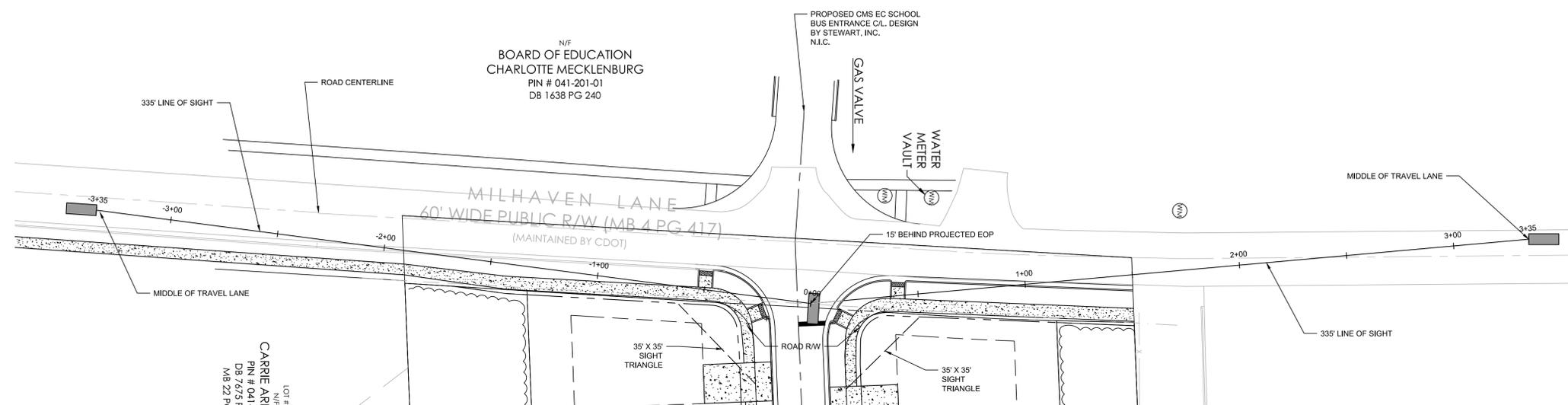


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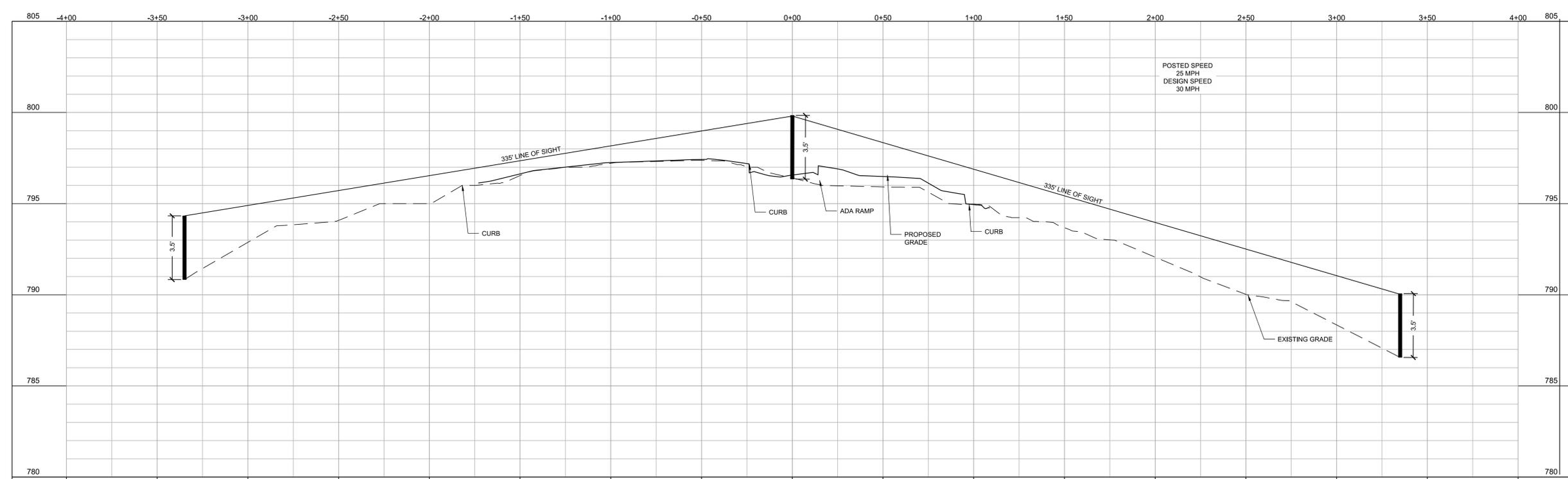
Intersection Sight Distance

Project number: X16037 Sheet:
Date: 10/17/2017
Drawn by: JGC
Approved by: JC

C3.20



PLAN VIEW



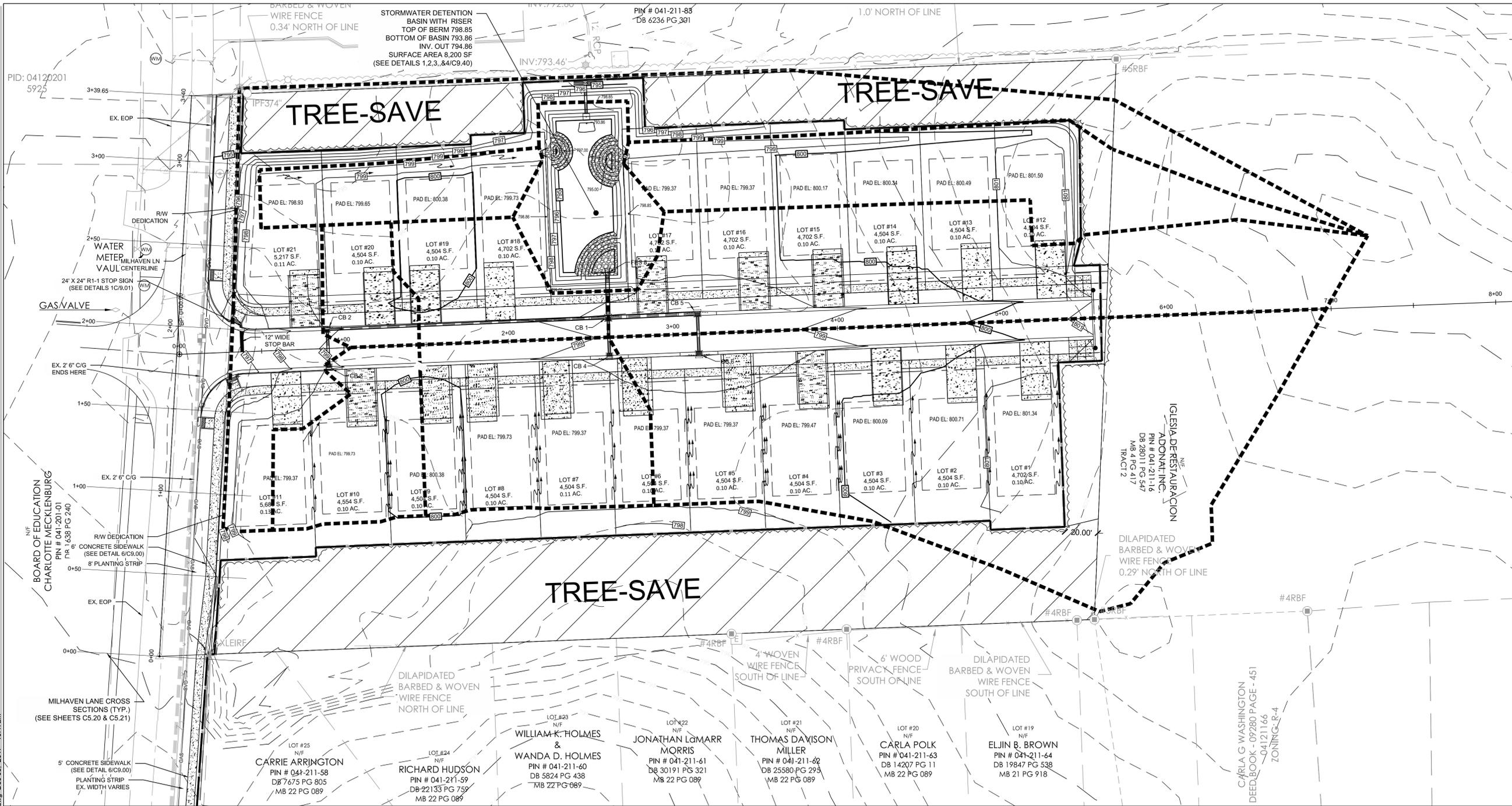
PROFILE VIEW

		792.9	792.88	794.1	794.08	795.0	795.00	796.5	796.54	797.2	797.22	797.4	797.38	798.4	798.42	795.9	795.92	795.0	794.97	793.7	793.68	792.1	792.05	790.0	790.02	788.3	788.35		
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SITE LEGEND

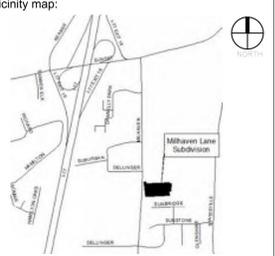
- PROPOSED CONCRETE SIDEWALK
- PROPOSED STANDARD DUTY PAVEMENT
- PROPOSED CURB & GUTTER
- PROPOSED SIGN
- PROPOSED TREELINE

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Habitat for Humanity
 Charlotte
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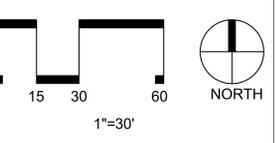
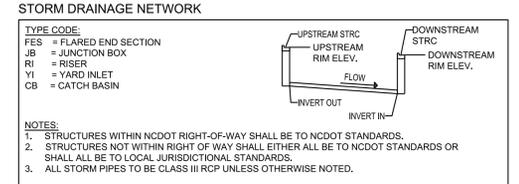
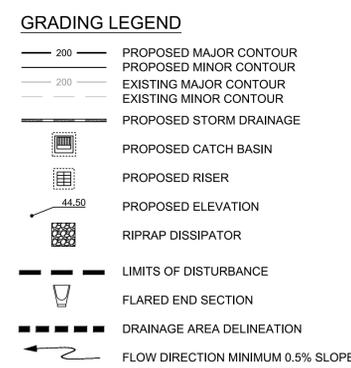


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GRADING & STORM DRAINAGE NOTES:

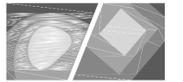
- REFER TO SHEET C3.00 FOR GENERAL NOTES.
- REFER TO SHEET C4.00 FOR TREE PROTECTION NOTES.
- CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.
- THE MAXIMUM SLOPE ALONG ANY ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. ACCESSIBLE RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30" BETWEEN LANDINGS.
- ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12" AND LARGER. THE VISUAL OBSERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION.
- PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE VIDEO INSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE). THIS SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO.
- REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION
- INTERIM GRADING SHALL BE PROVIDED THAT ENSURES THE PROTECTION OF STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND WASHOUT.
- INTERIM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING.
- THE ROOF LEADERS WHERE POSSIBLE TO UNDERGROUND STORM SYSTEM. CONTRACTOR TO FIELD VERIFY LOCATE AND INSTALL WHERE POSSIBLE OR AS SHOWN ON PLANS. WHERE ROOF LEADERS DAYLIGHT AT GRADE A SPLASH BLOCK APPROVED BY THE OWNER'S REPRESENTATIVE SHALL BE INSTALLED.
- PROPOSED CONTOURS ARE APPROXIMATE. SPOT ELEVATIONS AND ROADWAY PROFILES SHALL BE USED IN CASE OF DISCREPANCY.
- PLACE BACKFILL AND FILL MATERIALS IN LAYER NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS. PLACE BACKFILL AND FILL MATERIALS EVENLY ON ALL SIDES TO REQUIRED ELEVATIONS, AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE. COMPACT SOIL TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL UP TO TWO FEET OF FINISHED GRADE. COMPACT SOIL TO NOT LESS THAN 95 PERCENT OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D 698 FOR EACH LAYER OF BACKFILL OR FILL MATERIAL FOR THE FINAL TWO FEET.
- SITE GRADING IMMEDIATELY ADJACENT TO FOUNDATION OF BUILDING SHALL SLOPE NOT LESS THAN 1/20 AWAY FOR MINIMUM DISTANCE OF 10 FEET. ALTERNATIVE METHOD SHALL BE PROVIDED TO DIVERT WATER AWAY FROM FOUNDATION VIA SWALES SLOPED AT A MINIMUM OF 2% OR IMPERVIOUS SURFACES SLOPED AWAY A MINIMUM OF 2% AWAY FROM BUILDING.
- CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF EXISTING MANHOLES, METERS, VALVES, ETC. AS REQUIRED TO MEET NEW FINISHED GRADES.
- CONTRACTOR SHALL SLOPE GRADES TO ASSURE POSITIVE STORMWATER FLOW TO KEEP WATER FROM POOLING ALONG CURBS AND WALLS.

STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE RIM	PIPE DATA
CB 1	798.52	INV IN: 795.02 54 LF 24" CLASS IV RCP @ 0.50% (CB 5) INV IN: 795.52 171 LF 18" CLASS IV RCP @ 0.50% (CB 3) INV IN: 795.02 24 LF 18" CLASS III RCP @ 0.50% (CB 4) INV OUT: 795.02 24" RCP (FES 8)
CB 2	798.76	INV IN: 796.38 23 LF 15" CLASS IV RCP @ 0.52% (CB 3) INV OUT: 796.38 15" RCP (CB 1)
CB 3	798.77	INV OUT: 796.50 15" RCP (CB 2)
CB 4	798.53	INV OUT: 795.14 15" RCP (CB 1)
CB 5	798.07	INV IN: 795.29 25 LF 15" CLASS IV RCP @ 0.50% (CB 6) INV OUT: 795.29 24" RCP (CB 1)
CB 6	798.08	INV OUT: 795.41 15" RCP (CB 5)
FES 8	797.64	INV IN: 794.89 27 LF 24" CLASS III RCP @ 0.50% (CB 1)
JB	794.67	INV IN: 792.54 20 LF 15" CLASS III RCP @ 11.30% (RISER) INV OUT: 792.54 15" CMP INV OUT: 792.54 15" CMP
RISER	798.28	INV OUT: 794.86 15" RCP (JB)



Title:
Grading & Storm Drainage Plan
 Project number: X16037Sheet:
 Date: 10/17/2017
 Drawn by: RGB/JGC
 Approved by: JMC **C5.00**

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Vicinity map:

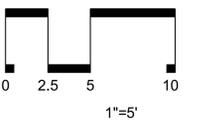


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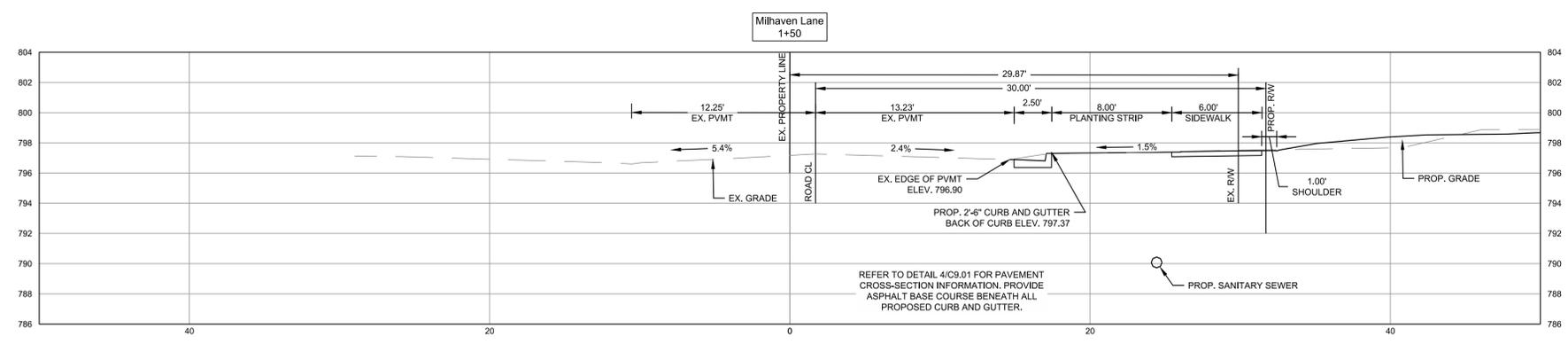
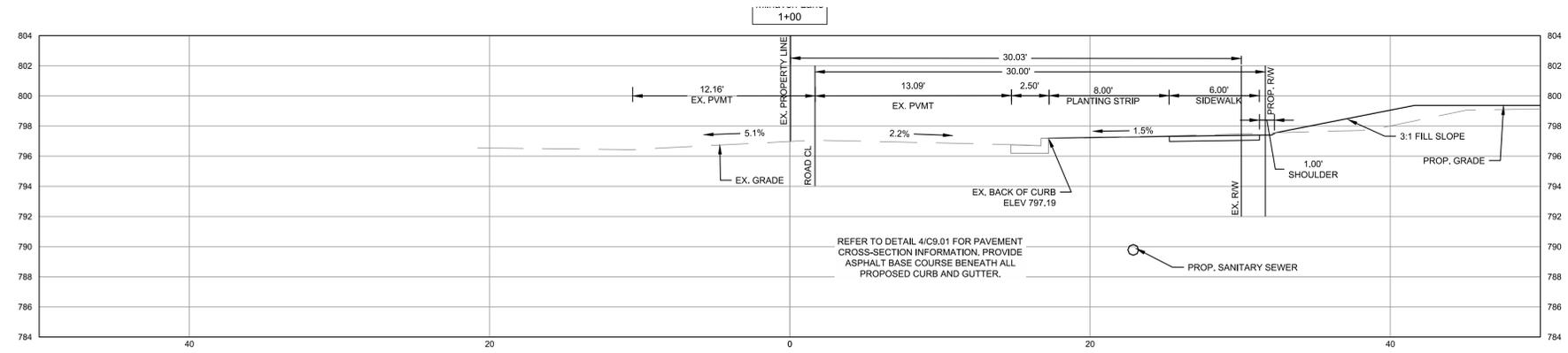
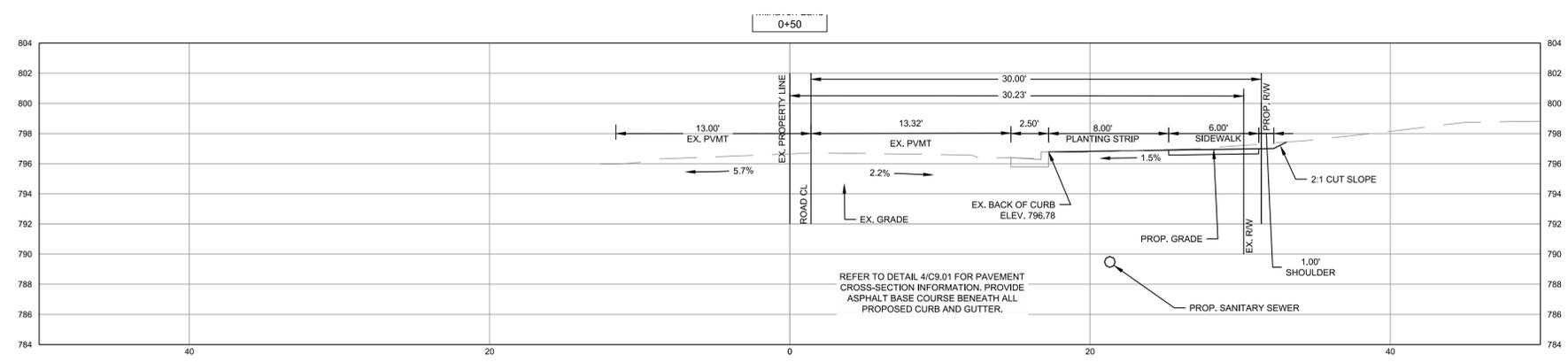
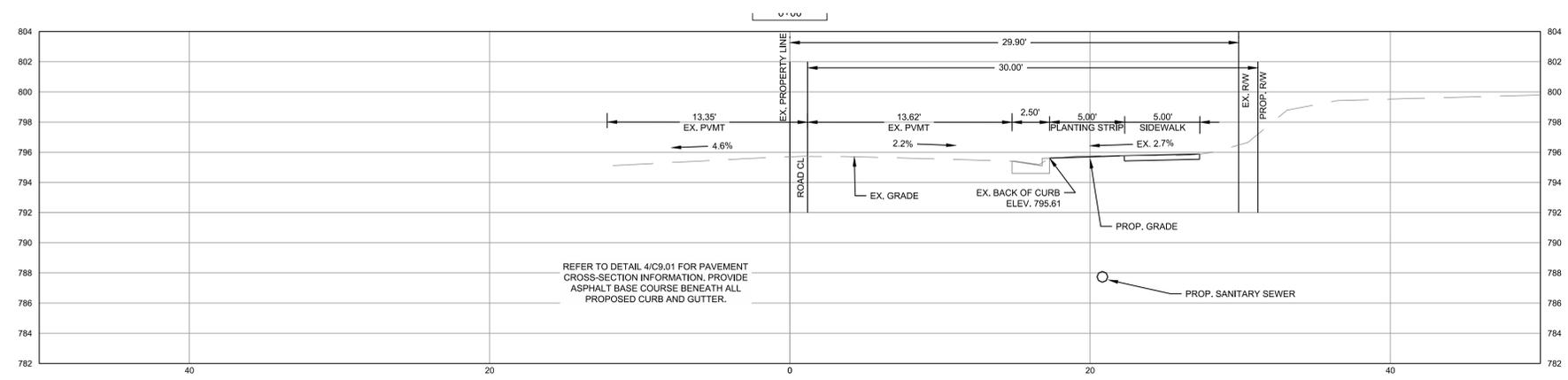
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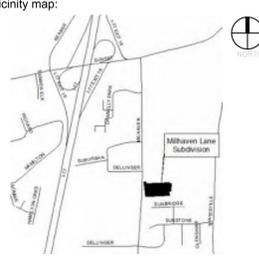
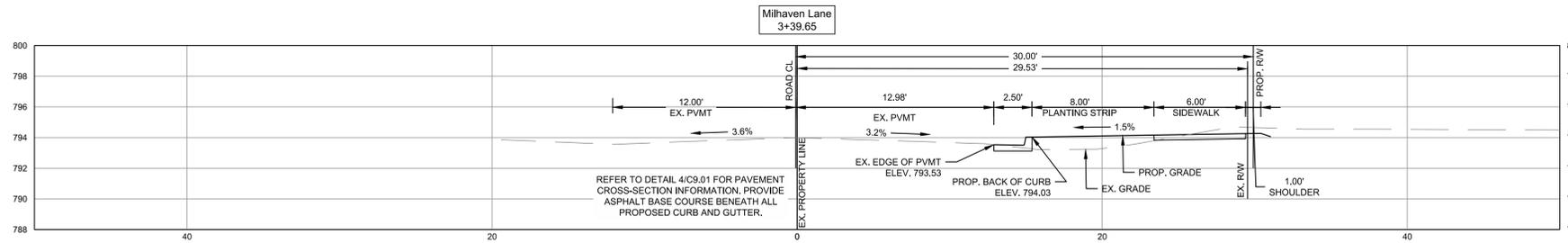
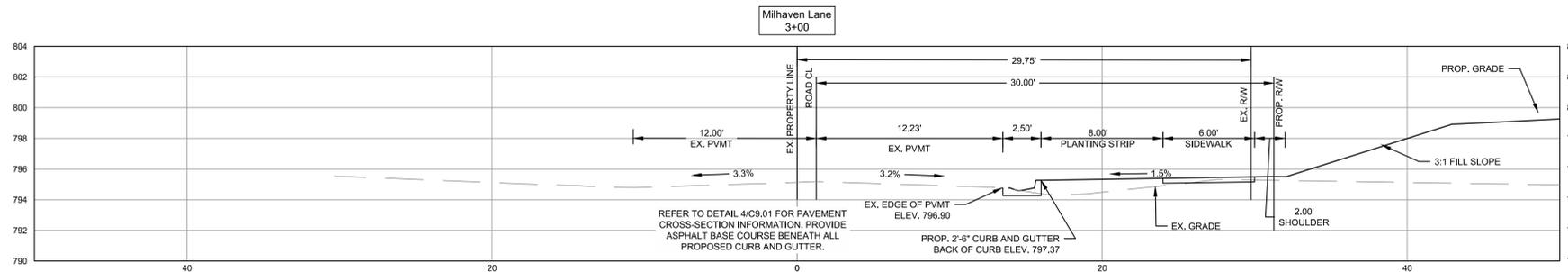
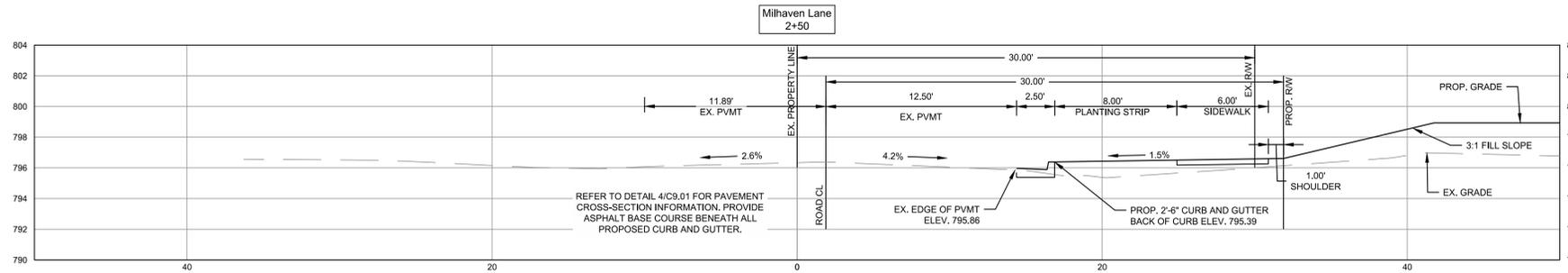
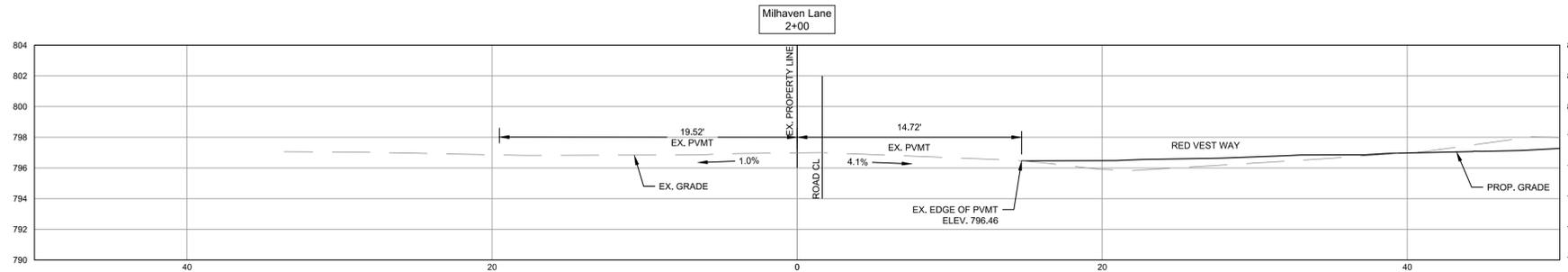
Milhaven Lane Cross-Sections

Project number: X16037 Sheet:
Date: 10/17/2017
Drawn by: RGB/JGC
Approved by: JMC **C5.20**



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