

ALLEGAN COUNTY ROAD COMMISSION

122ND AVENUE RECONSTRUCTION PROJECT 10TH STREET TO 6TH STREET MARTIN TOWNSHIP

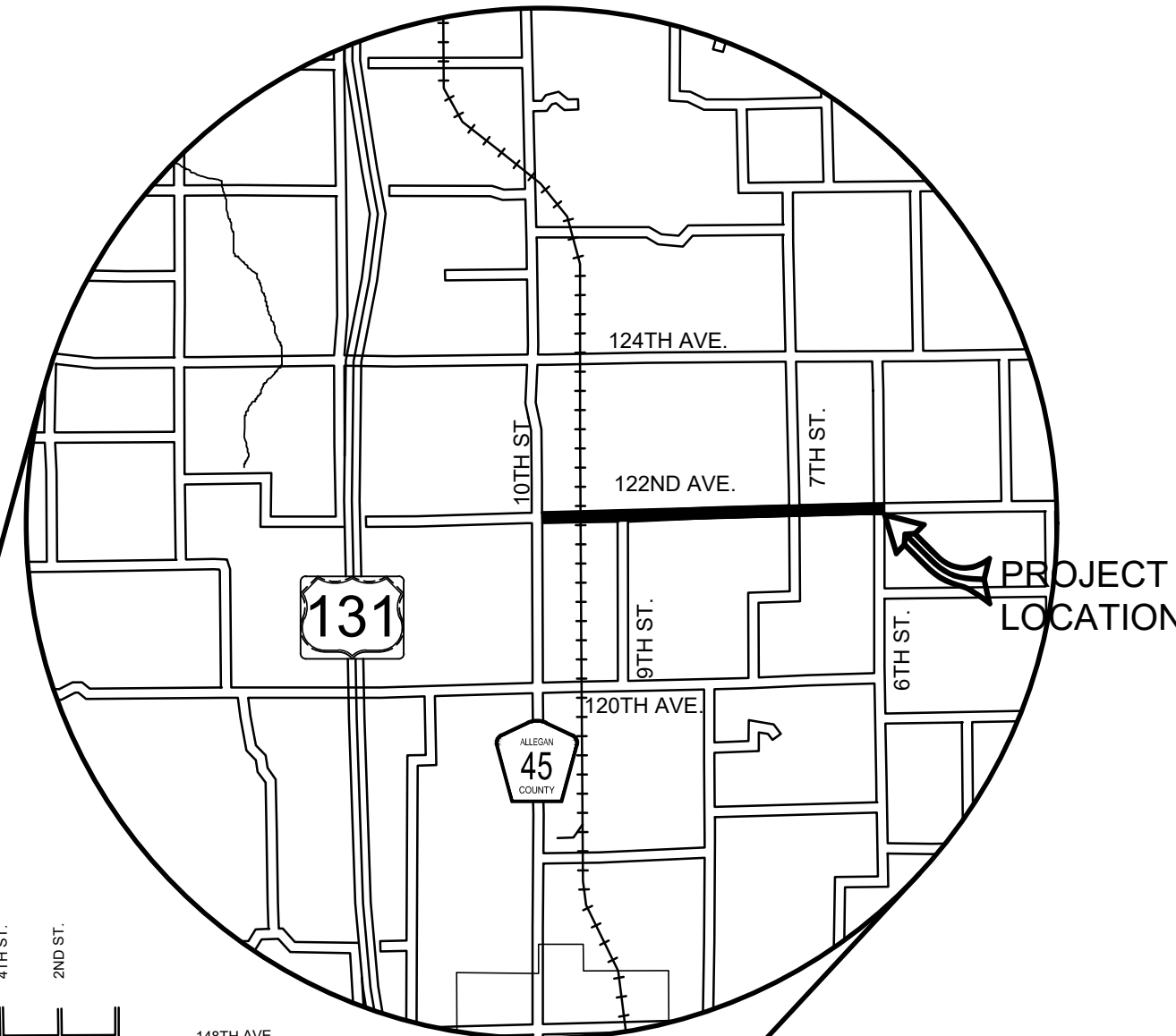
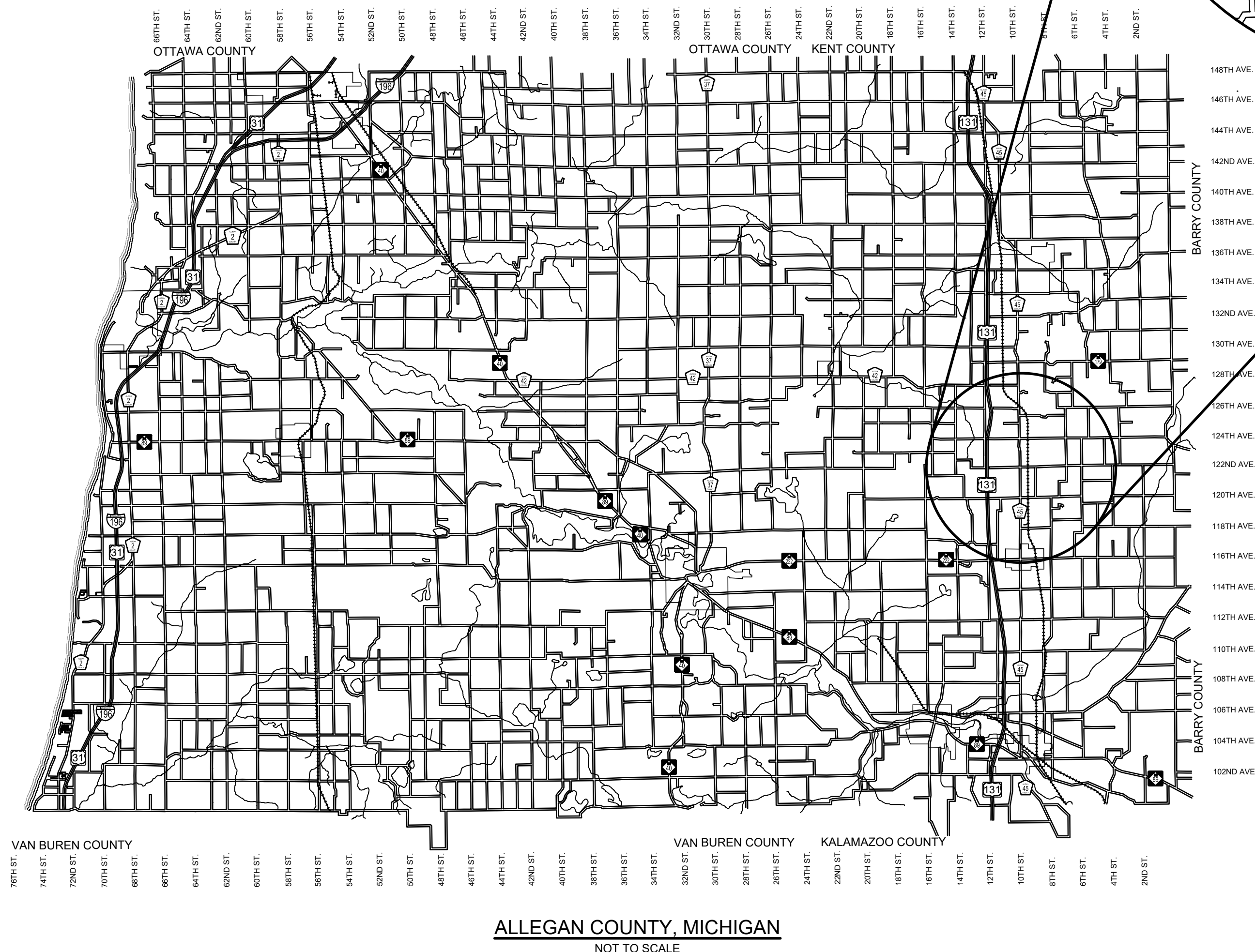
EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE PLACING OF PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS AMENDED.

THE IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2011 EDITION, A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS.

THE CONTRACTOR SHALL DIAL MISS DIG @ 811 FOR PROTECTION OF UNDER GROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

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UTILITY CONTACTS

ELECTRIC CONSUMERS ENERGY 4000 CLAY AVE. SW GRAND RAPIDS, MI 49548 616-530-4185 MS. KYLEE MAYCROFT grvimp@cmsenergy.com	RAILROAD GRAND ELK RAILROAD 75 MILLS STREET KALAMAZOO, MI 49048 269-308-0847 MR. JAMIE LEONARD jamie.leonard@watco.com
GREAT LAKES ENERGY 1049 133RD AVENUE WAYLAND, MI 49348 269-792-0532 MR. JEFF HICKS jhicks@genenergy.com	*MISS DIG* 811
TELEPHONE AT&T 955 36TH STREET GRAND RAPIDS, MI 49508 616-246-7302 MS. CARRIE DEMOTT cd3249@att.com	
GAS MICHIGAN GAS UTILITIES 742 ALLEGAN STREET OTSEGO, MI 49078 616-844-7514 MR. SETH PURUCKER seth.purucker@michigangasutilities.com	


**Board of County Road Commissioners
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1308 LINCOLN ROAD
ALLEGAN, MICHIGAN 49010-9762
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REVISIONS	1	2	3	4	5	6	7

122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
COVER SHEET

CONTRACT FOR ROAD IMPROVEMENTS
2.03 MILES OF ROADWAY RECONSTRUCTION INCLUDING CLEARING, GRADE ESTABLISHMENT, SAND SUBBASE, AGGREGATE BASE, CULVERT REPLACEMENTS, AND RESTORATION ON 122ND AVENUE FROM 10TH STREET TO 6TH STREET IN MARTIN TOWNSHIP, ALLEGAN COUNTY.

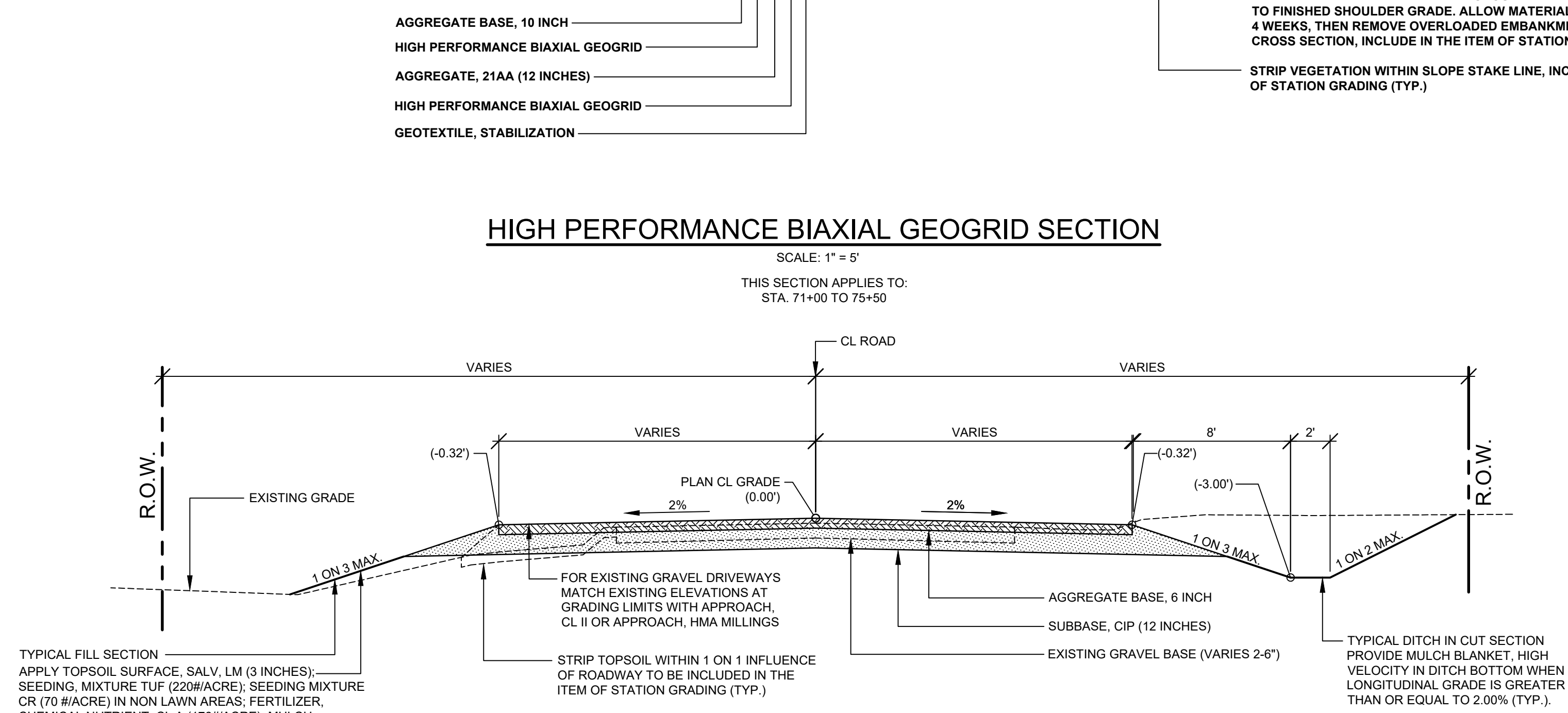
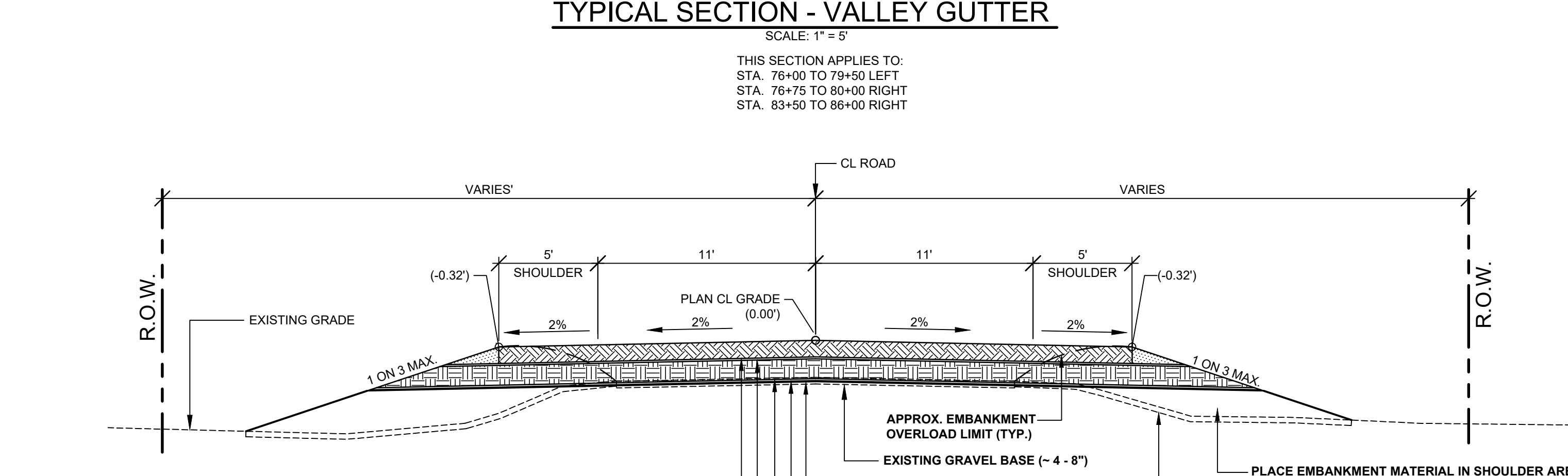
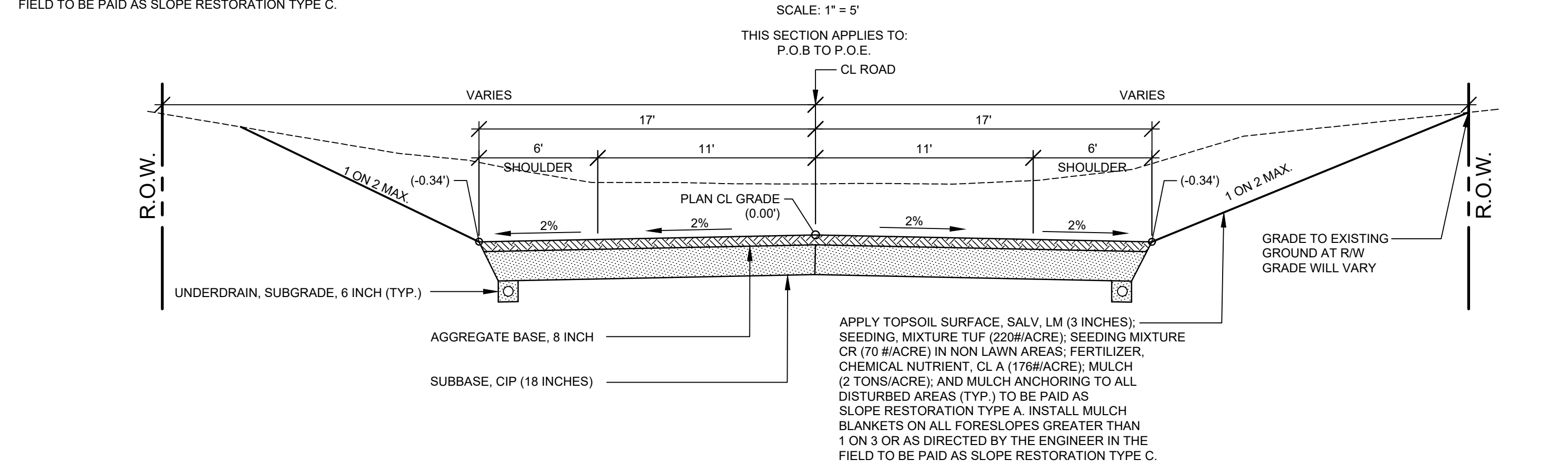
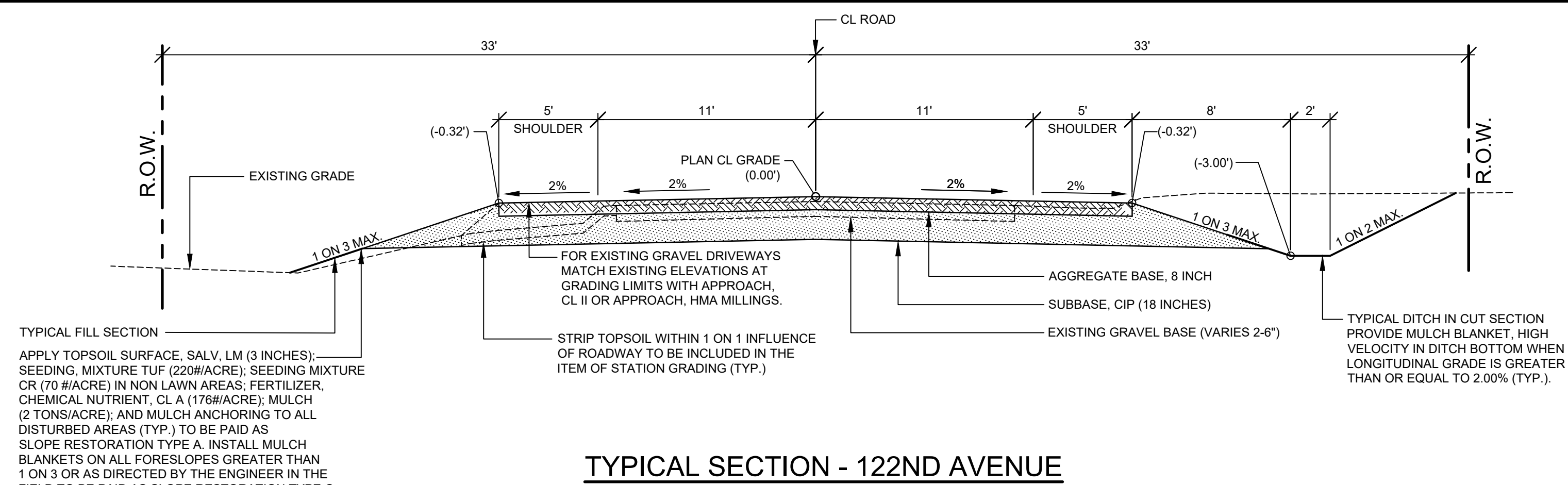
PREPARED UNDER THE SUPERVISION OF:



Ryan P. Brown

RYAN P. BROWN
REGISTERED PROFESSIONAL ENGINEER No. 65933

DRAWN BY: RPB
REVIEWED BY:
DATE: APRIL, 2021
SCALE: NONE



PROJECT NOTES

THE "2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND "STANDARD PLANS" BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) ARE HEREBY INCORPORATED INTO THESE CONTRACT DOCUMENTS. COPIES OF THESE STANDARDS ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF THE ENGINEER.

THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE ALLEGAN COUNTY ROAD COMMISSION TO NOTIFY THEM THAT WORK IS COMMENCING.

THE CONTRACTOR SHOULD NOTE THAT STATION GRADING WILL INCLUDE THE REMOVAL OF FENCES, CULVERTS, BRUSH, TREES SMALLER THAN 6". CONCRETE FOUNDATIONS, AND MISCELLANEOUS ITEMS AS REQUIRED AND WILL ALSO INCLUDE ALL EARTH EXCAVATION, EMBANKMENT, AND ALL OTHER OPERATIONS NECESSARY TO DEVELOP THE DESIRED CROSS SECTION. ALL TOPSOIL AND OTHER UNSUITABLE MATERIAL LOCATED BENEATH THE PROPOSED PAVEMENT SECTION WILL BE REMOVED TO THE SUBGRADE ELEVATION AS PART OF STATION GRADING. ALL TOPSOIL REMOVED MAY BE STOCKPILED AND REUSED AS TOPSOIL SURFACE, SALV, LM.

ALL FILL FOR THIS PROJECT MUST BE OBTAINED AND FURNISHED BY THE CONTRACTOR. ALL REQUIRED FILL SHALL BE SELECTED EXCAVATED MATERIAL FROM THE SITE APPROVED BY THE ENGINEER. OR MDOT CLASS II GRANULAR MATERIAL FROM BORROW. EXCESS FILL WILL BE REMOVED FROM SITE BY THE CONTRACTOR. NO BORROW OR SOIL REMOVAL ARRANGEMENTS HAVE BEEN PREARRANGED FOR THIS PROJECT AND WILL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR.

THE SOIL BORINGS WERE TAKEN BY GREAT LAKES DRILLING COMPANY, P.O. BOX 51, ALLEGAN, MI 49010 ON OCTOBER 31, 2019. THE TEST BORINGS REPRESENT POINT INFORMATION AND MAY NOT HAVE ENCOUNTERED ALL THE TYPES AND MATERIALS WHICH ARE PRESENT AT THE SITE. THESE BORING LOGS DO NOT CONSTITUTE A GUARANTEE OF THE SOIL OR GROUNDWATER CONDITIONS, OR THAT THE TEST BORINGS ARE AN EXACT REPRESENTATION OF THE SOIL OR GROUNDWATER CONDITIONS AT ALL POINTS ON THE SITE.

SEE PLAN AND PROFILE SHEETS FOR SOIL BORING DATA.

DRIVE REPLACEMENT WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE ITEM OF SUBBASE, CIP WILL BE PAID FOR AT PLAN QUANTITY EXCEPT IN THE CASE OF A DESIGN CHANGE OR DEMONSTRATED ERROR.

AS PART OF THIS PROJECT THE CONTRACTOR WILL COORDINATE WITH THE ALLEGAN COUNTY ROAD COMMISSION TO PRESERVE AND RESET ALL GOVERNMENT CORNERS WITHIN THE PROJECT LIMITS.

CONTRACTOR WILL RELOCATE ALL MAILBOXES TO A TEMPORARY CENTRAL LOCATION APPROVED BY THE POSTAL SERVICE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INSTALL A 1" x 3" STAKE WITH THE RESPECTIVE PROPERTY ADDRESS WRITTEN ON IT IN THE FRONT YARD OF EACH RESIDENCE TO ASSIST WITH IDENTIFICATION FOR EMERGENCY VEHICLES. PAYMENT FOR RELOCATION WILL BE INCLUDED IN THE ITEM OF PROJECT CLEANUP. AT THE COMPLETION OF THE PROJECT SAID MAILBOXES SHALL BE RESET AT THEIR APPROPRIATE LOCATIONS.

ALL DISTURBED AREAS NOT TO BE PAVED WILL BE RESTORED WITH TOPSOIL SURFACE, SALV, LM (3 INCHES), MDOT SEED MIXTURE TUF (220#/ACRE); SEEDING MIXTURE CR (70 #/ACRE) IN NON LAWN AREAS; FERTILIZER, CHEMICAL NUTRIENT, CL A (176#/ACRE); AND MULCH AND MULCH ANCHORING (2 TON/ACRE). TO BE PAID AS SLOPE RESTORATION, TYPE A. SEE SPEC PLAN FOR AREAS TO USE HIGH VELOCITY MULCH BLANKET, TO BE PAID AS SLOPE RESTORATION TYPE C.

ADEQUATE DUST CONTROL MEASURES WILL BE MAINTAINED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER IN THE FIELD, TO BE INCLUDED IN THE VARIOUS ITEMS OF WORK.

MULCH BLANKET, HIGH VELOCITY WILL BE PLACED ON THE BOTTOM OF ALL DITCHES WHEN THE LONGITUDINAL GRADE IS GREATER THAN OR EQUAL TO 2.00% UNLESS OTHERWISE NOTED, OR AS DIRECTED BY THE ENGINEER IN THE FIELD TO BE PAID AS SLOPE RESTORATION TYPE C.

WHEN FIELD DRAIN TILES ARE ENCOUNTERED IN THE EXISTING DITCHES, THE CONTRACTOR WILL EXTEND THEM AS REQUIRED WITH UNDERDRAIN, SUBGRADE 4" OR 6" AND ADJUST THE DITCH GRADES AS NECESSARY TO PROVIDE POSITIVE DRAINAGE AS DIRECTED BY THE ENGINEER IN THE FIELD. THE COST OF THE CONNECTION WILL BE INCLUDED IN THE NEW PIPE ITEM. IF THE ENGINEER DETERMINES THAT AN EXISTING TILE IS TOO LONG THE CONTRACTOR WILL REMOVE THE TILE AS NECESSARY, TO BE INCLUDED IN THE ITEM OF STATION GRADING.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE PATTERNS, AND WILL RESOLVE ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH MAY RESULT FROM THE CONTRACTOR'S ACTIVITIES.

DATUM REFERS TO NAVD88 DATUM.

DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.

UTILITY NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR WILL CONTRACT "MISS DIG" AT A MINIMUM OF 72 HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE CONTRACTOR WILL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND WILL CONDUCT HIS OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

PRELIMINARY UTILITY COORDINATION WAS PERFORMED AND ALL UTILITIES HAVE VERIFIED LOCATIONS. CONSUMERS ELECTRIC HAS STATED THEY HAVE NO CONFLICTS. GREAT LAKES ENERGY WILL HAS STATED THEY HAVE NO CONFLICTS. MICHIGAN GAS IS NOT IN CONFLICT WITH THE PROJECT. AT&T WILL BE RELOCATING TO THE R/W OR A PRIVATE EASEMENT LOCATION. RELOCATIONS OCCURING WEEK OF 7-12-2021.

RAILROAD NOTES

THE ALLEGAN COUNTY ROAD COMMISSION WILL SUBMIT A GRANT APPLICATION TO MDT FOR RAILROAD CROSSING FUNDING. THE APPLICATIONS ARE SELECTED IN NOVEMBER 2021, NO WORK WILL TAKE PLACE WITHIN 100 FEET OF THE RAILROAD PRIOR TO WINTER 2021.

A RIGHT OF ENTRY LICENSE APPLICATION HAS BEEN SUBMIT BY THE ALLEGAN COUNTY ROAD COMMISSION. AS SOON AS THE CONTRACT IS AWARDED THE CONTRACTOR SHALL COMPLETE THE STEPS NECESSARY TO OBTAIN THE TEMPORARY PERMIT AS LISTED IN THE SPECIAL PROVISIONS OF THE CONTRACT.

COORDINATION/FLAGGING WILL BE REQUIRED FOR THE GRAND ELK RAILROAD. SEE SPECS FOR INSURANCE REQUIREMENTS.

MISCELLANEOUS QUANTITIES

DESCRIPTION	QUANTITY	UNIT
SUBGRADE UNDERCUTTING, TYPE II	1,250	CYD
AGGREGATE, 6A	50	TON
GEOTEXTILE, STABILIZATION	2,450	SYD
RIPRAP, PLAIN	75	SYD
EROSION CONTROL, SILT FENCE	300	FT
EROSION CONTROL, CHECK DAM	160	FT
APPROACH, CL II	90	TON
APPROACH, HMA MILLINGS	20	TON
CULV, CL E, CONC, 18 INCH	40	FT
CULV END SECT, CONC, 18 INCH	2	EA
CULV, CL F, 12 INCH	160	FT
CULV, CL F, 18 INCH	40	FT

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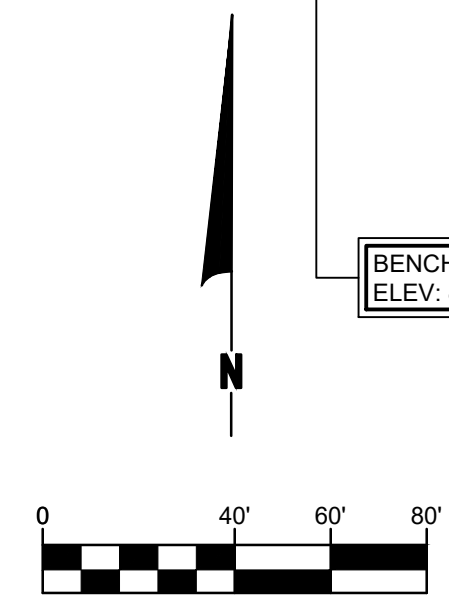
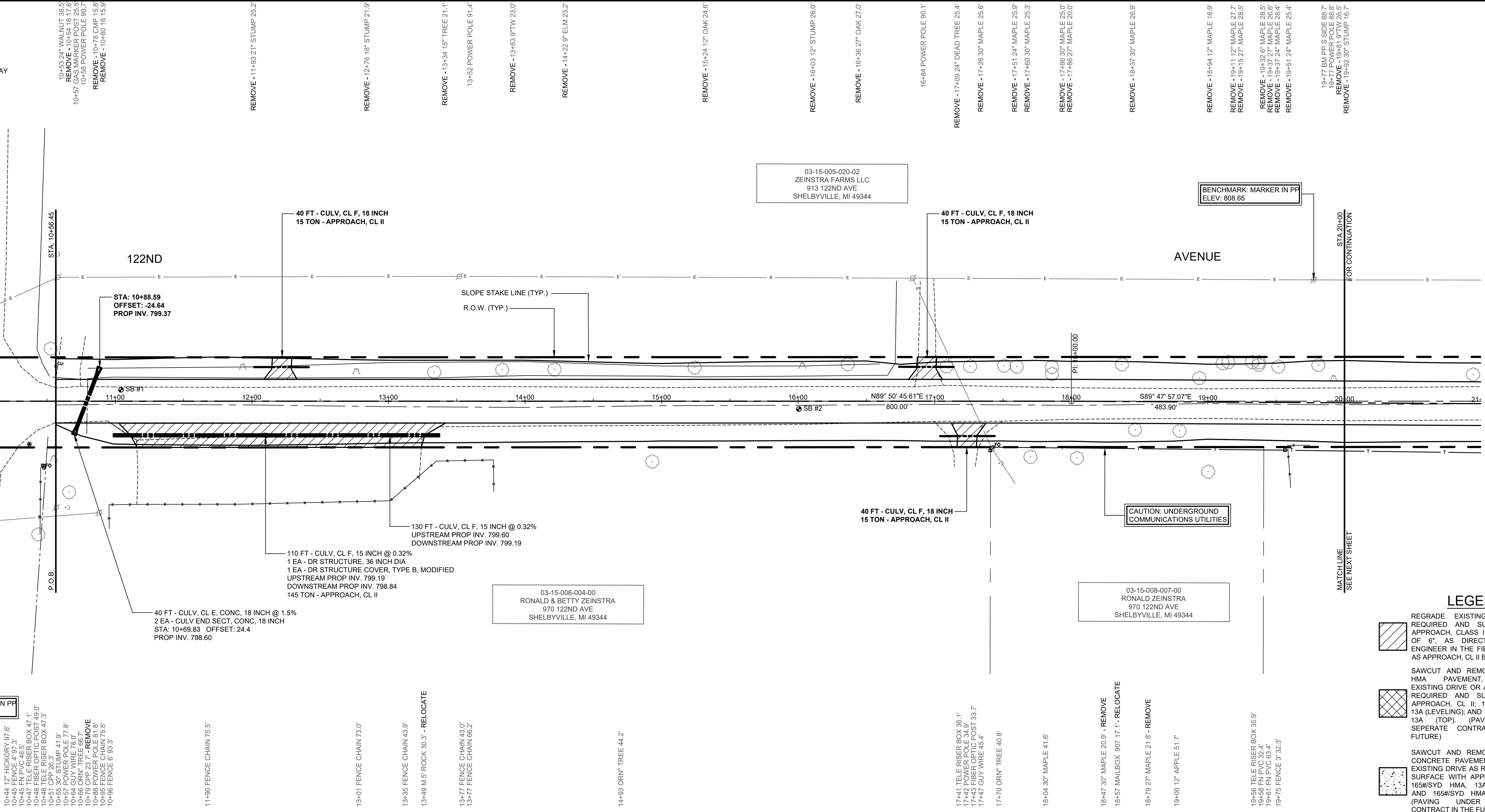
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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET

TYPICAL SECTIONS, DETAILS, & NOTES

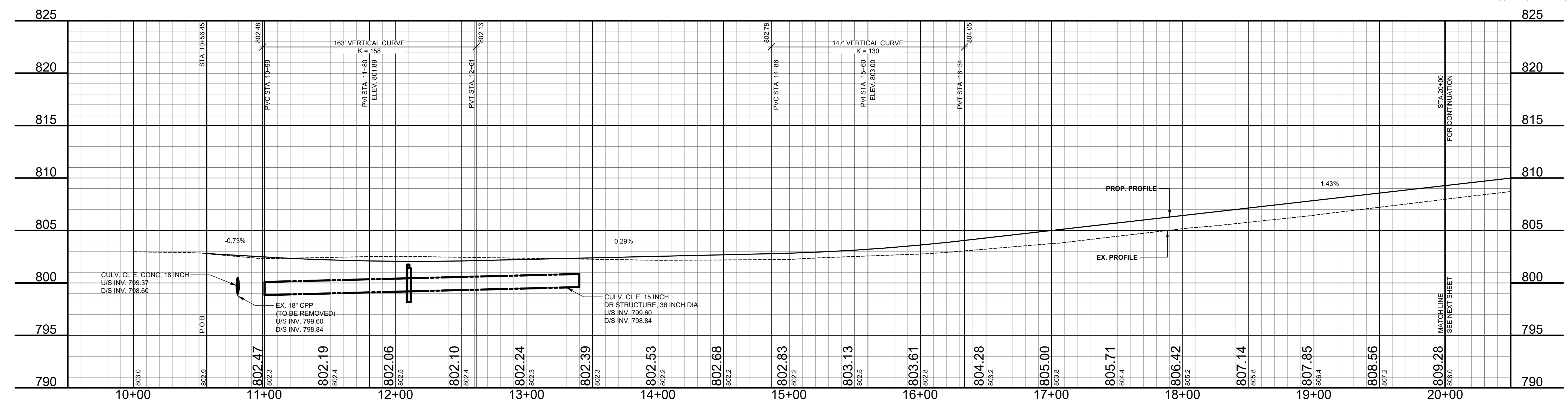
DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: AS NOTED

SOIL BORINGS	
SB #1	0 - 14" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL 14" - 36" DARK BROWN VERY SANDY CLAY, TOPSOIL 36" - 48" GRAY WITH BROWN CLAYEY, SILTY FINE SAND 48" - 60" GRAY AND BROWN VERY SANDY CLAY 60" END OF BORING
SB #2	0 - 20" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL 20" - 36" DARK BROWN FINE TO MEDIUM SAND, FINE GRAVEL AND CLAY 36" - 42" BROWN FINE SAND 42" - 60" BROWN GRAY SANDY CLAY 60" END OF BORING



LEGEND

- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
- SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
PLAN & PROFILE - STA. 10+00 TO STA. 20+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5'V

SOIL BORINGS

SB #3	0 - 21"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	21" - 34"	DARK BROWN FINE TO MEDIUM SAND, FINE GRAVEL AND CLAY
	34" - 60"	BROWN SANDY CLAY
	60"	END OF BORING
SB #4	0 - 18"	BROWN COARSE SAND AND FINE TO COARSE GRAVEL
	18" - 30"	DARK BROWN CLAYEY FINE TO MEDIUM SAND
	30" - 48"	BROWN SANDY CLAY
	48" - 60"	BROWN MEDIUM TO COARSE SAND
	60"	END OF BORING

REMOVE - 20+94 12" WALNUT 19.5'
 REMOVE - 21+06 12" WALNUT 20.5'
 REMOVE - 21+09 12" WALNUT 23.1'
 REMOVE - 21+18 36" STUMP 22.0'

RELOCATE BY OTHERS - 23+39 TSCB RAILROAD GATE 17.7'
 23+43 ELEC TRANSFORMER 55.8'
 23+46 FIBER OPTIC POST 56.9'
 23+47 POWER POLE 44.0'

24+17 POWER POLE 88.4'
 24+17 BM PP S SIDE 88.0'
 REMOVE - 24+30 12" CPP 30.7'
 24+30 GUY WIRE 68.6'

REMOVE - 25+18 12 26.7'

REMOVE - 25+80 CMP 24.7'

26+12 POWER POLE 88.1'

26+66 ORN" TREE 61.9'

27+01 ORN" TREE 61.3'

27+47 ORN" PINE 52.1'
 27+54 FLAG POLE 52.6'
 27+61 ORN" PINE 52.3'

28+02 ORN" TREE 63.9'

28+56 ORN" TREE 59.1'

28+71 POWER POLE 86.3'

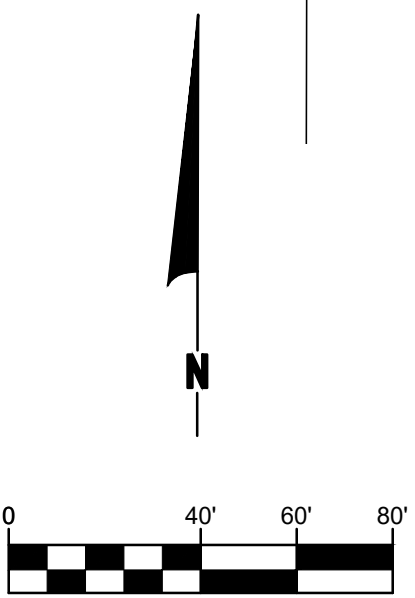
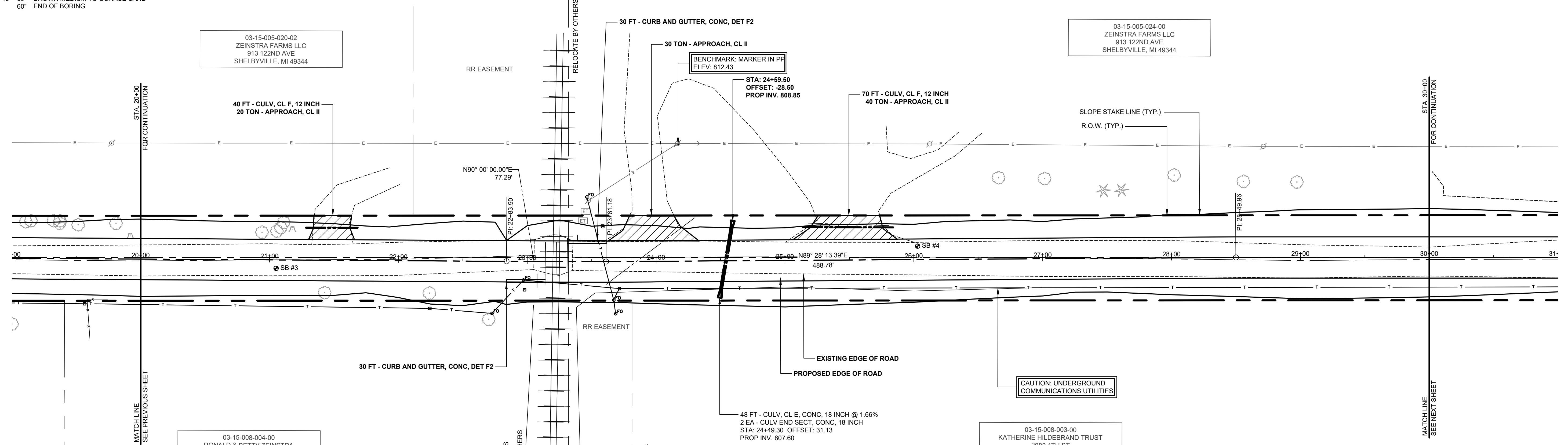
28+97 ORN" TREE 55.5'

03-15-005-020-02
 ZEINSTRAS FARMS LLC
 913 122ND AVE
 SHELBYVILLE, MI 49344

03-15-008-004-00
 RONALD & BETTY ZEINSTRAS
 970 122ND AVE
 SHELBYVILLE, MI 49344

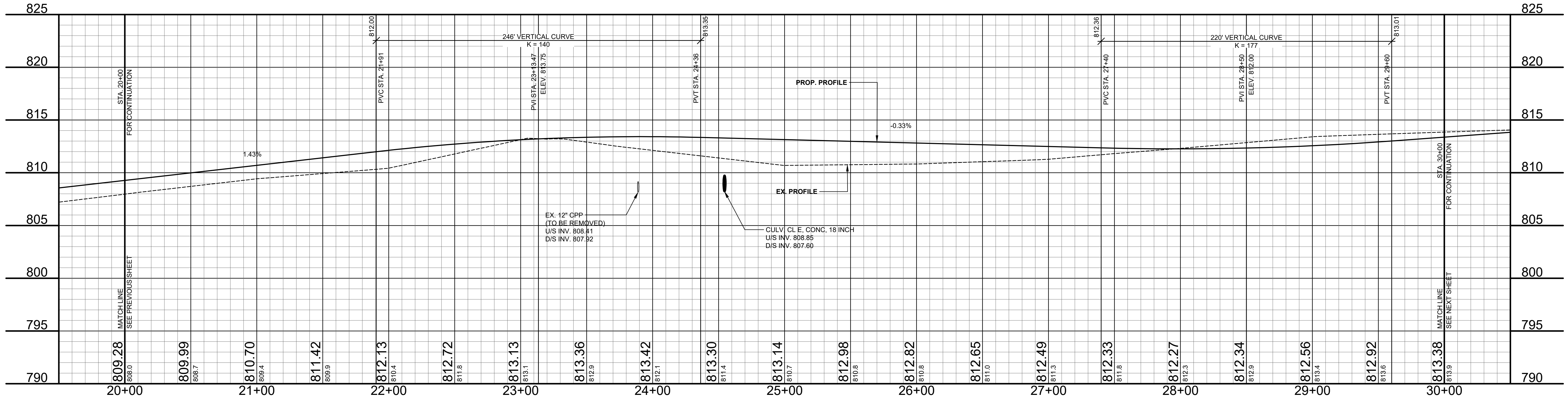
03-15-008-003-00
 KATHERINE HILDEBRAND TRUST
 2082 4TH ST
 SHELBYVILLE, MI 49344

COORDINATION WITH GRAND ELK RAILROAD WILL BE REQUIRED FOR THIS PROJECT. WORK WITHIN 100 FEET OF THE RAILROAD WILL NOT BE PERMITTED TO BEGIN UNTIL SPRING OF 2022. SEE SPECIFICATIONS FOR THE RAILROAD INSURANCE REQUIREMENTS AND COORDINATION CLAUSE.



LEGEND

	REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
	SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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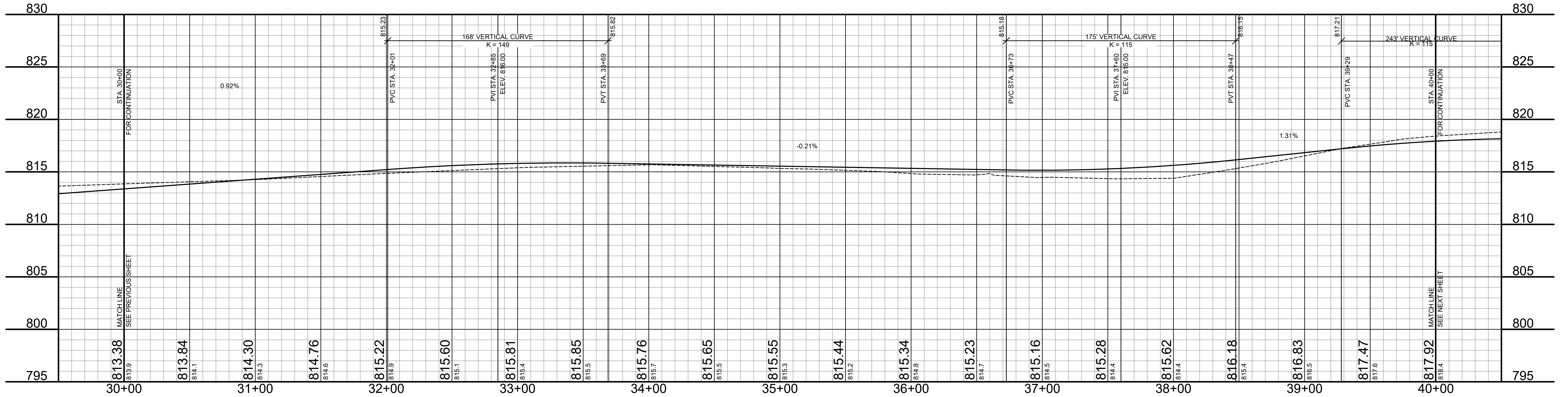
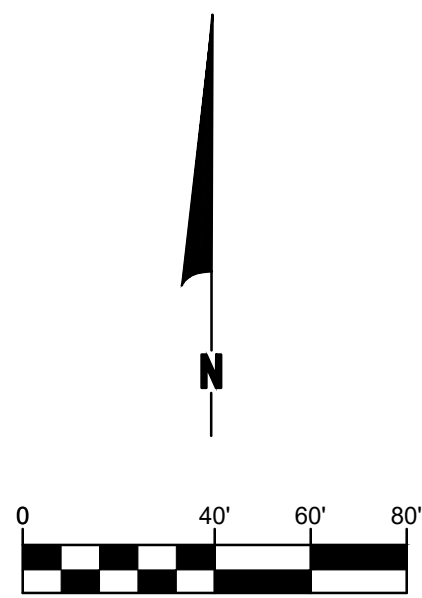
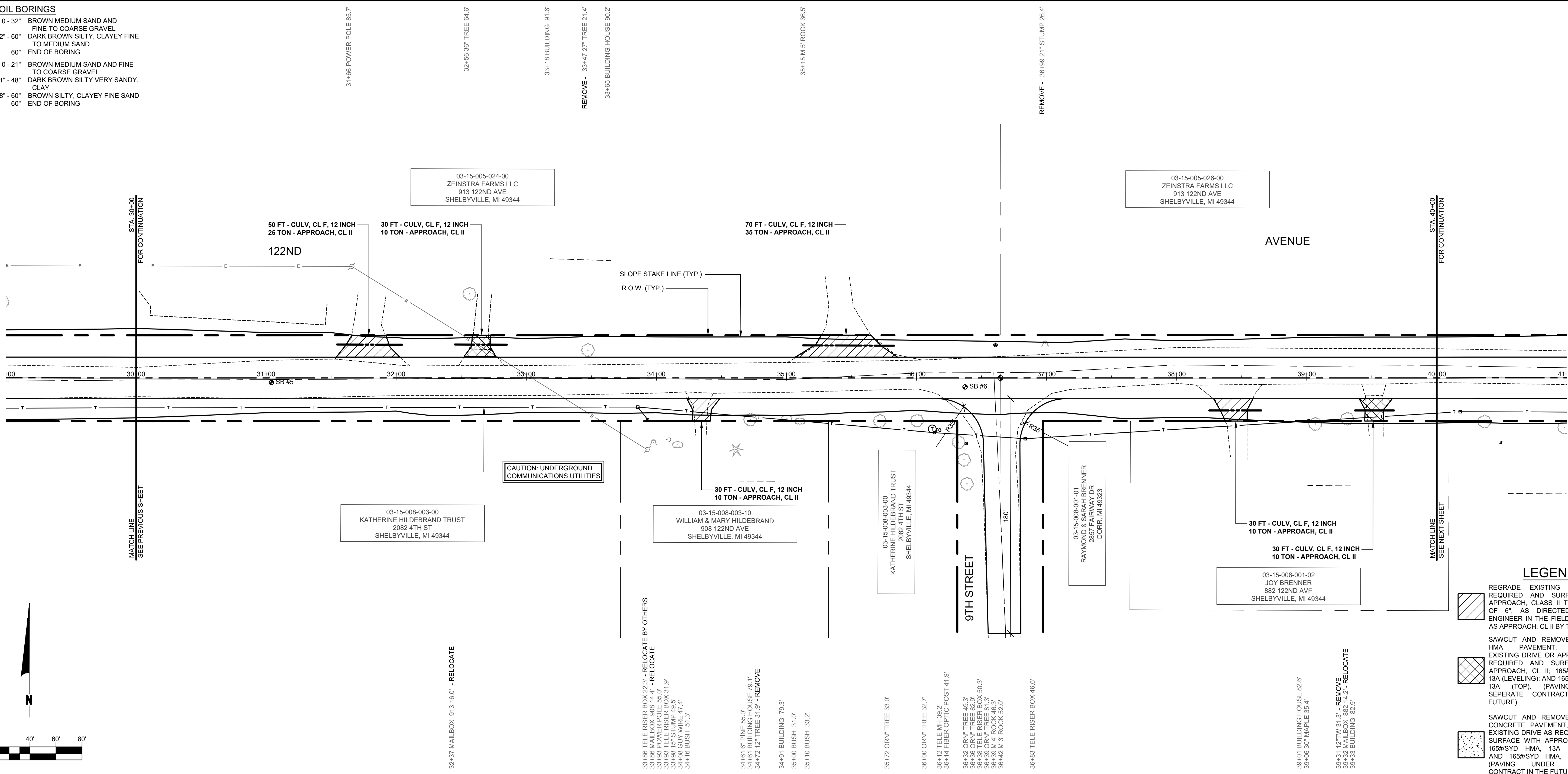
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 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 PLAN & PROFILE - STA. 20+00 TO STA. 30+00

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: APRIL, 2021
 SCALE: 1"= 40'H, 5V

SOIL BORINGS

SB #5	0 - 32"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	32" - 60"	DARK BROWN SILTY, CLAYEY FINE TO MEDIUM SAND
	60"	END OF BORING
SB #6	0 - 21"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	21" - 48"	DARK BROWN SILTY VERY SANDY, CLAY
	48" - 60"	BROWN SILTY, CLAYEY FINE SAND
	60"	END OF BORING



LEGEND

[Hatched Pattern]	REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
[Cross-hatched Pattern]	SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
[Dotted Pattern]	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)

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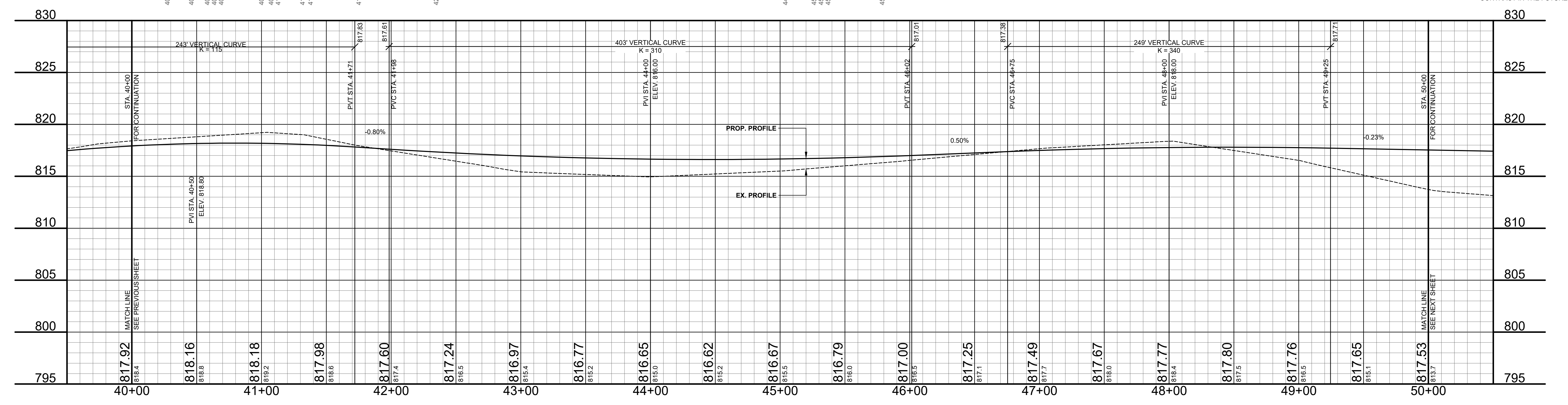
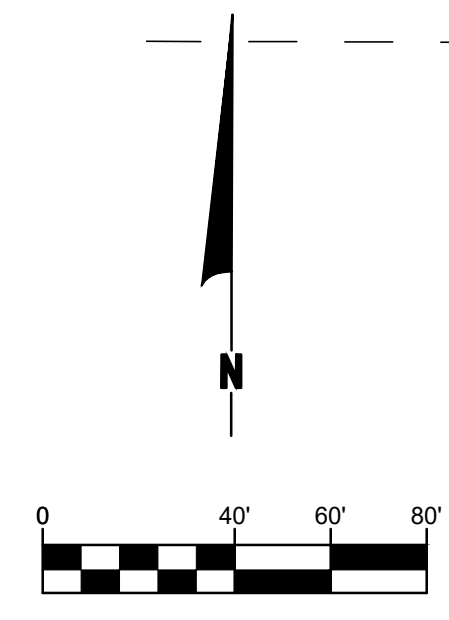
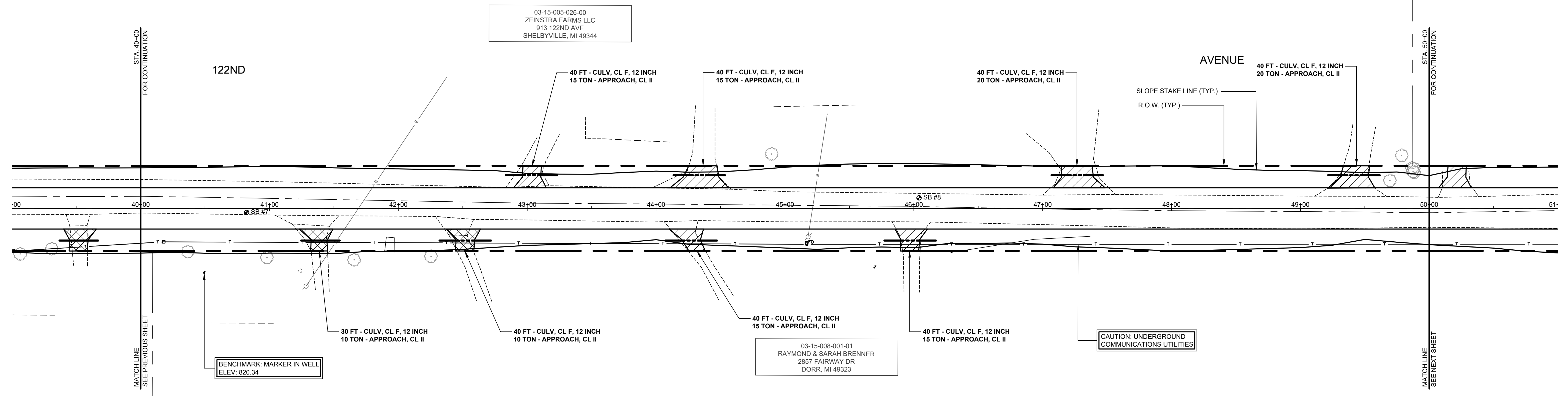
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MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
PLAN & PROFILE - STA. 30+00 TO STA. 40+00

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SOIL BORINGS

SB #7	0 - 15"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	15" - 24"	DARK BROWN CLAY FINE SAND, TR FINE GRAVEL
	24" - 60"	BROWN SANDY CLAY
	60"	END OF BORING
SB #8	0 - 60"	BROWN MEDIUM TO COARSE SAND AND FINE TO COARSE GRAVEL
	60"	END OF BORING



LEGEND

	REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
	SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE).
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TELEPHONE (269) 673-2184

REVISIONS

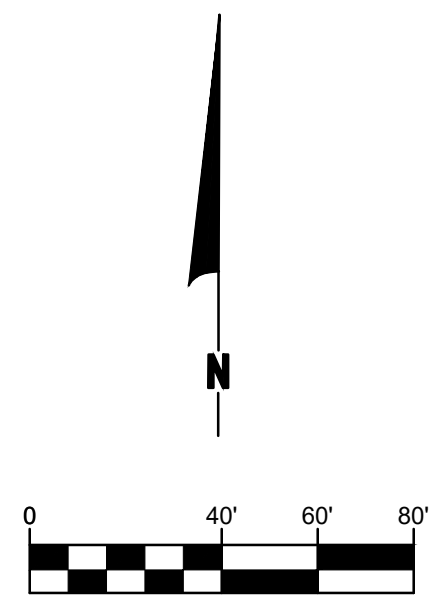
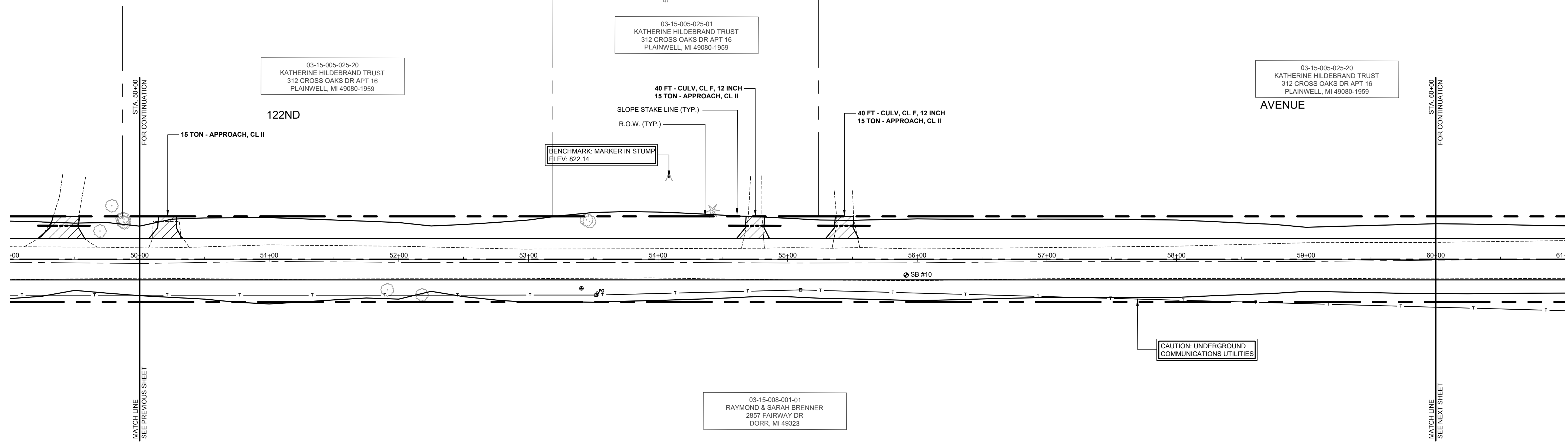
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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
PLAN & PROFILE - STA. 40+00 TO STA. 50+00

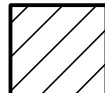


DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5'V

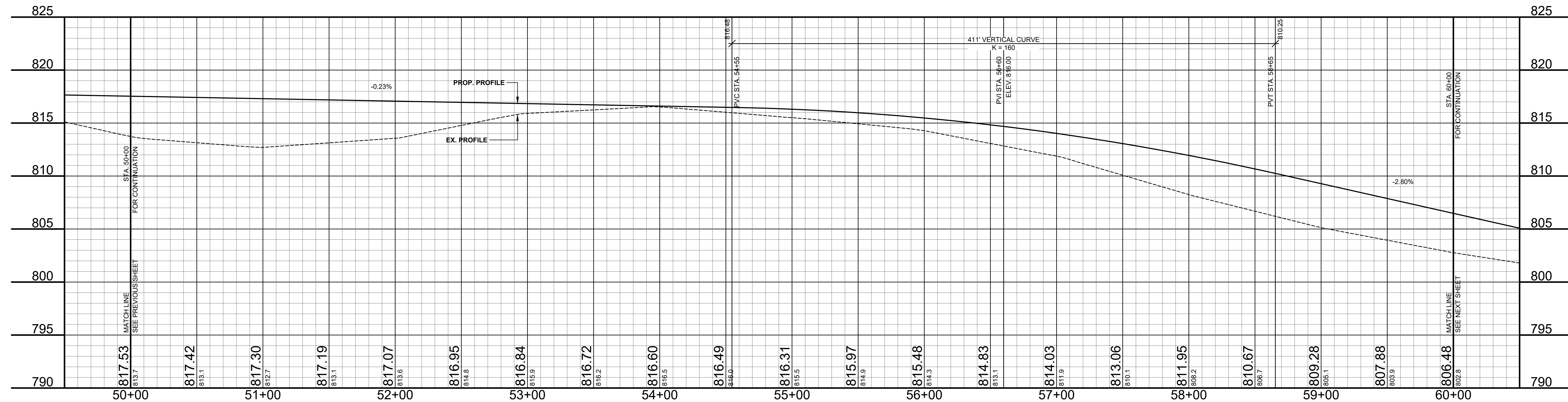
SOIL BORINGS

SB #9	0 - 16"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	16" - 48"	DARK BROWN SANDY, VERY SILTY CLAY, TOPSOIL
	48" - 60"	BROWN SILTY FINE TO MEDIUM SAND
	60"	END OF BORING
SB #10	0 - 6"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	6" - 16"	DARK BROWN CLAYEY FINE SAND
	16" - 42"	BROWN FINE TO MEDIUM SAND, CLAY
	42" - 60"	LIGHT BROWN FINE TO MEDIUM SAND
	60"	END OF BORING



LEGEND

-  REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
-  SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
-  SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



**Board of County Road Commissioners
Of Allegan County**
1308 LINCOLN ROAD
ALLEGAN, MICHIGAN 49010-9762
TELEPHONE (269) 673-2184 www.alleganroads.org FAX (269) 673-5922

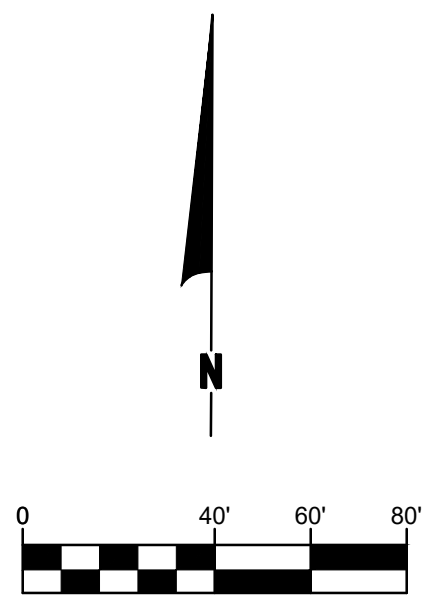
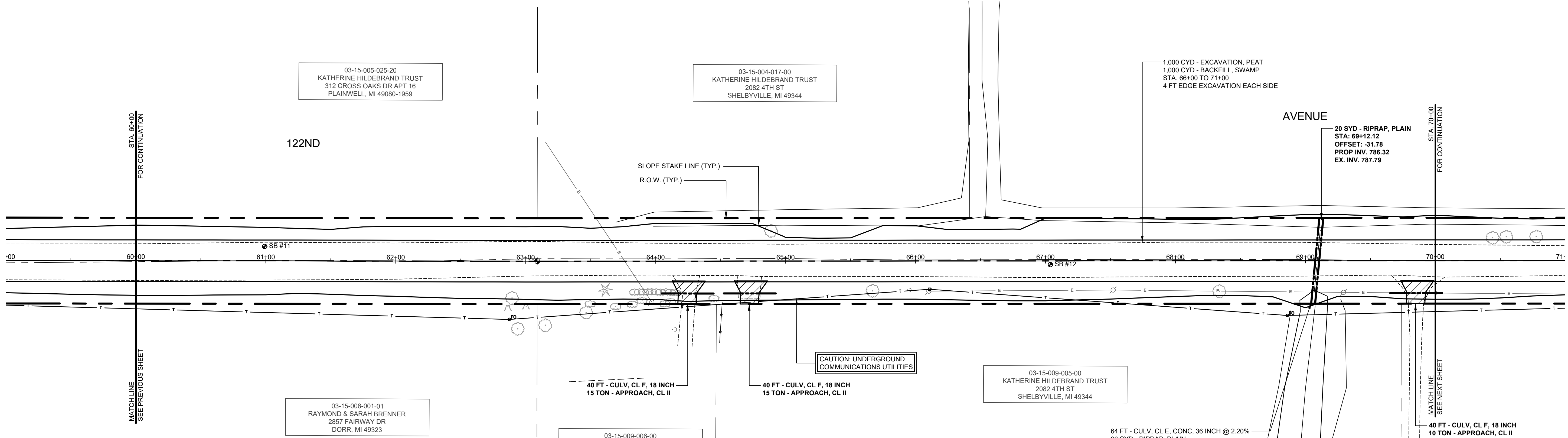
REVISIONS	
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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
PLAN & PROFILE - STA. 50+00 TO STA. 60+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5V

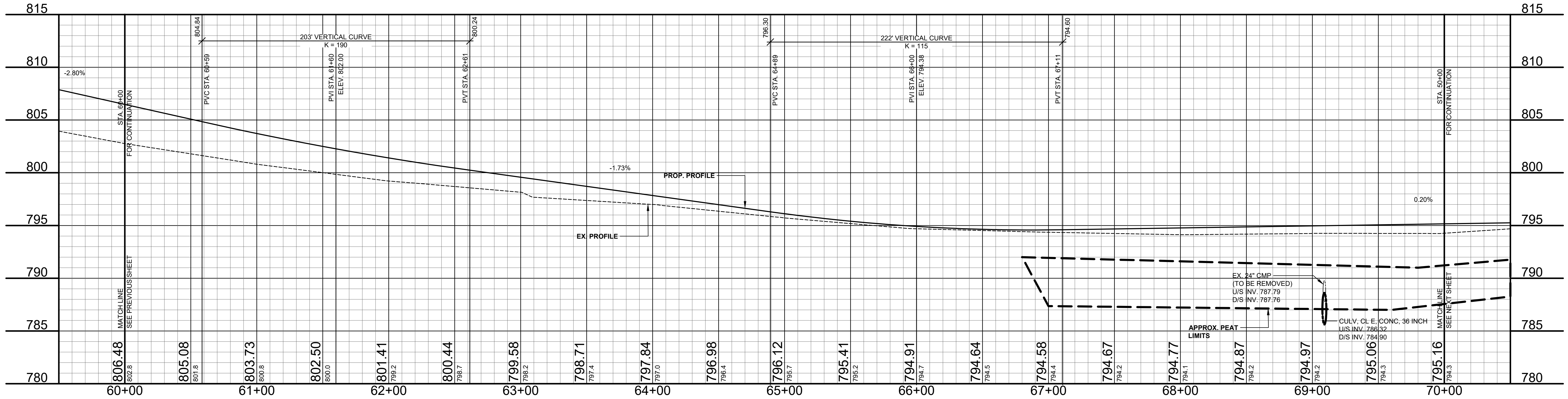
SOIL BORINGS

SB #11	0 - 6"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	6" - 36"	DARK BROWN SANDY/SILTY CLAY
	36" - 60"	DARK GRAY WITH BROWN SANDY CLAY
	60"	END OF BORING
SB #12	0 - 8"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	8" - 30"	DARK BROWN CLAYEY/SILTY FINE SAND
	30" - 84"	BLACK PEAT
	84" - 120"	GRAY SANDY CLAY W/ GRAY MEDIUM SAND SEAMS, WET
	120"	END OF BORING



LEGEND

	REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
	SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



REVISIONS

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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET

PLAN & PROFILE - STA. 60+00 TO STA. 70+00

Board of County Road Commissioners
Of Allegan County
1308 LINCOLN ROAD
ALLEGAN, MICHIGAN 49010-9762
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TELEPHONE (269) 673-2184

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5V

SOIL BORINGS

SB #13	0 - 10"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	10" - 24"	DARK BROWN CLAYEY FINE TO MEDIUM SAND, TOPSOIL
	24" - 42"	BLACK PEAT
	42" - 72"	BROWN PEATY MARL
	72" - 114"	GRAY PEATY MARL
	114" - 144"	BROWN MEDIUM TO COARSE SAND
	144"	END OF BORING
SB #14	0 - 24"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	24" - 30"	DARK BROWN CLAYEY FINE SAND
	30" - 66"	BLACK PEAT
	66" - 96"	DARK BROWN PEATY MARL
	96" - 120"	GRAY MARL
	120" - 156"	BROWN MEDIUM TO COARSE SAND
	156"	END OF BORING

REMOVE - 70+44.9' TREE 17.6'
 REMOVE - 70+56.9' TREE 18.4'
 REMOVE - 70+76.9' TREE 18.5'

REMOVE - 71+19.15' DEAD TREE 18.5'
 REMOVE - 71+37.15' DEAD TREE 17.2'

REMOVE - 72+01.9' TREE 20.9'

REMOVE - 74+13.24' TREE 18.3'
 REMOVE - 74+23.19' CMP 25.3'

75+47 GUY WIRE 50.4'
 75+51 POWER POLE 43.7'

78+03 POWER POLE 41.8'

03-15-004-014-20
 VANDEBUNTE FARMS LLC
 1435 128TH AVE
 HOPKINS, MI 49328

03-15-009-003-00
 RUTH HAZEN & VIRGINIA DARNELL
 1391 8TH ST
 MARTIN, MI 49070

03-15-009-004-00
 TERRY & EVALLEE KEYZER
 774 122ND AVE
 SHELBYVILLE, MI 49344

BENCHMARK MARKER IN P
 ELEV: 793.02

48 FT - CULV. CL E. CONC. 18 INCH @ 1.5%
 2 EA - CULV END SECT, CONC. 18 INCH
 STA: 74+18.52 OFFSET: 27.83
 PROP INV. 790.66
 EX. INV. 789.66

73+06 12" CPP 49.3'
 73+32 12" CPP 51.1'
 73+85 B&N SIDE RR SPIKE 55.6'
 74+18 18" CMP 27.8' - REMOVE

74+37 POWER POLE 26.8'
 74+77 FIBER OPTIC POST 26.8'

76+39 6" TREE 34.8'
 76+49 6" TREE 28.5' - REMOVE
 76+64 6" TREE 26.2' - REMOVE
 76+80 9" TREE 26.3' - REMOVE
 76+95 15" TW 18.0' - REMOVE

77+56 12" TREE 26.2' - REMOVE
 77+61 21" CHERRY 18.5' - REMOVE
 77+69 15" STUMP 19.6' - REMOVE
 77+71 15" STUMP 19.0' - REMOVE
 77+80 15" CHERRY 18.5' - REMOVE
 77+88 6" TREE 13.6' - REMOVE

78+13 21" CHERRY 14.9' - REMOVE
 78+13 6" TREE 26.0' - REMOVE

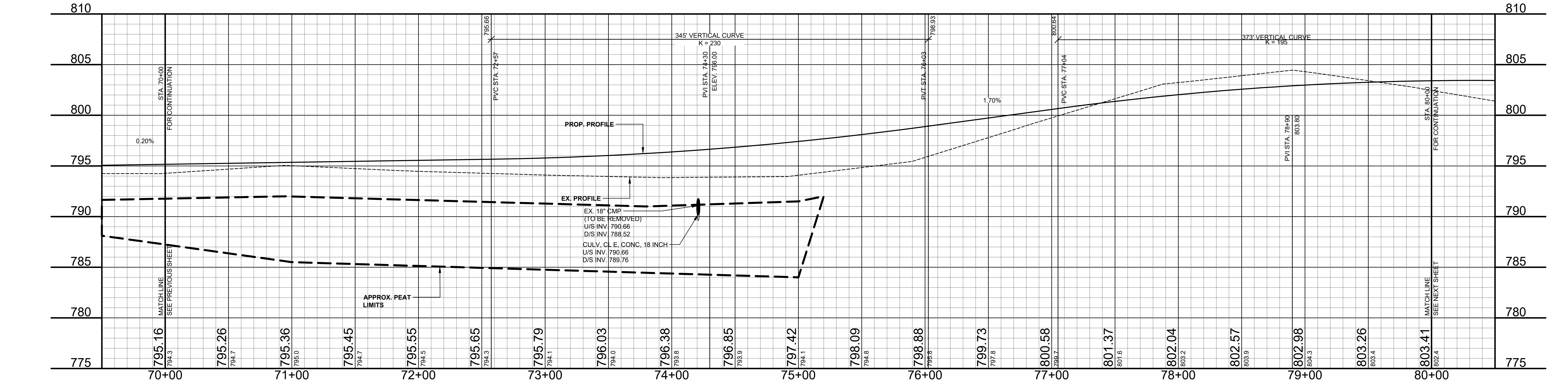
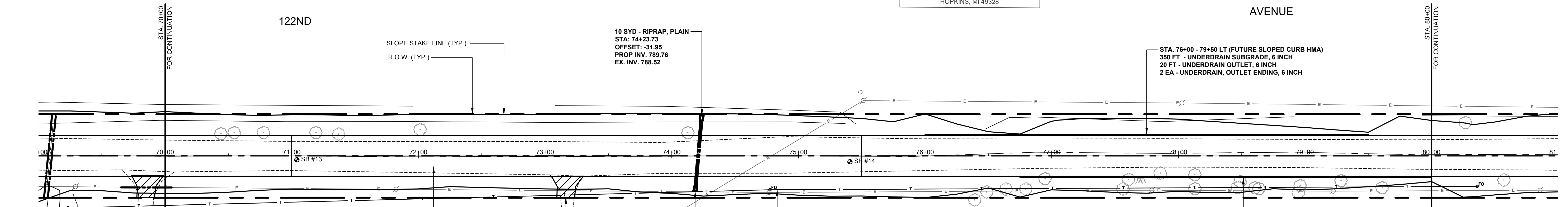
78+47 6" TREE 24.9' - REMOVE
 78+49 6" TREE 20.4' - REMOVE
 78+60 18" CHERRY 25.2' - REMOVE
 78+64 6" TREE 25.6' - REMOVE

78+95 6" TREE 28.8' - REMOVE
 78+95 15" DEAD TREE 23.3' - REMOVE
 79+22 6" TREE 27.9'
 79+28 6" TREE 19.5' - REMOVE

79+61 27" CHERRY 25.2' - REMOVE

LEGEND

	REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6". AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
	SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
	SAWCUT AND REMOVE EXISTING DRIVE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



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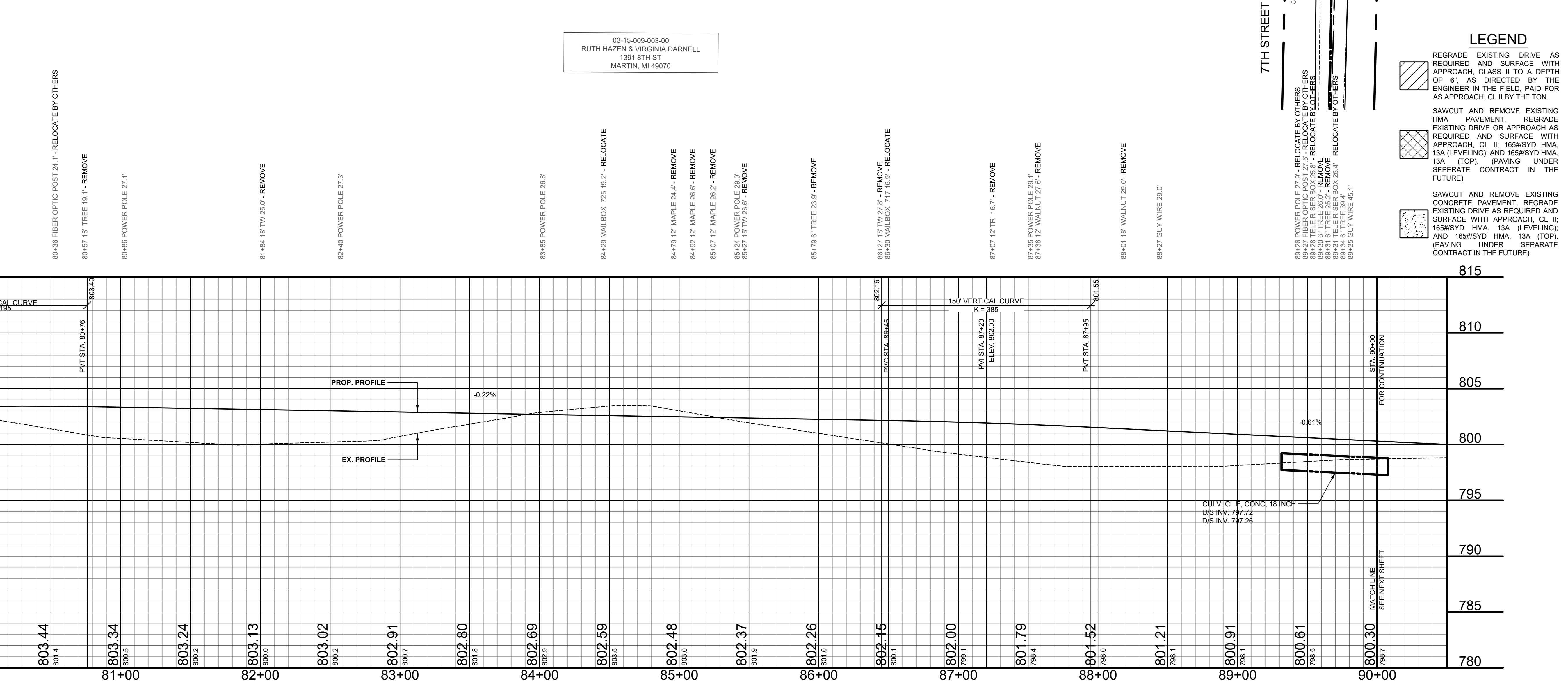
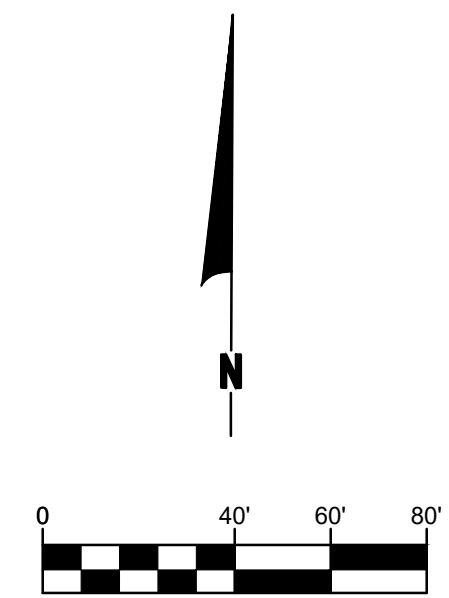
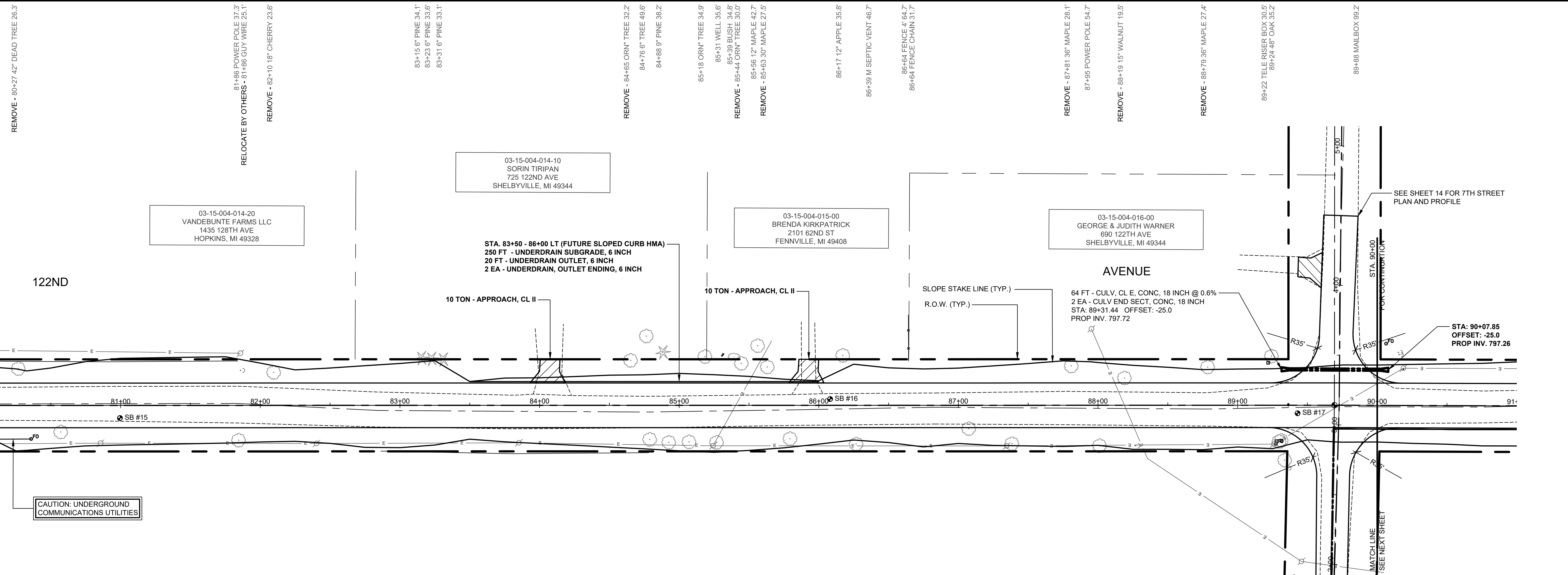
REVISIONS

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122ND AVENUE RECONSTRUCTION PROJECT
 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 PLAN & PROFILE - STA. 70+00 TO STA. 80+00

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: APRIL, 2021
 SCALE: 1"= 40'H, 5V

SOIL BORINGS	
SB #15	0 - 14" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL 14" - 24" DARK BROWN CLAY FINE SAND 24" - 36" DARK BROWN FINE TO MEDIUM SAND 36" - 60" BROWN FINE TO COARSE SAND 60" END OF BORING
SB #16	0 - 4" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL 4" - 42" DARK BROWN CLAYEY FINE TO MEDIUM SAND 42" - 54" BROWN CLAYEY MEDIUM SAND 54" - 66" DARK BROWN AND GRAY PEAT 66" - 120" BROWN MEDIUM SAND 120" END OF BORING
SB #17	0 - 24" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL 24" - 36" DARK BROWN CLAYEY FINE TO MEDIUM SAND 36" - 60" BROWN SANDY CLAY 60" END OF BORING



LEGEND

- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
PLAN & PROFILE - STA. 80+00 TO STA. 90+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5'V

SOIL BORINGS
 SB #18
 0 - 6" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
 6" - 36" BROWN VERY CLAYEY MEDIUM TO COARSE SAND
 36" - 60" BROWN COARSE SAND & FINE GRAVEL
 60" END OF BORING

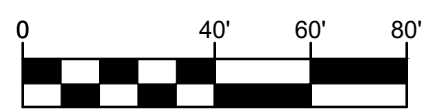
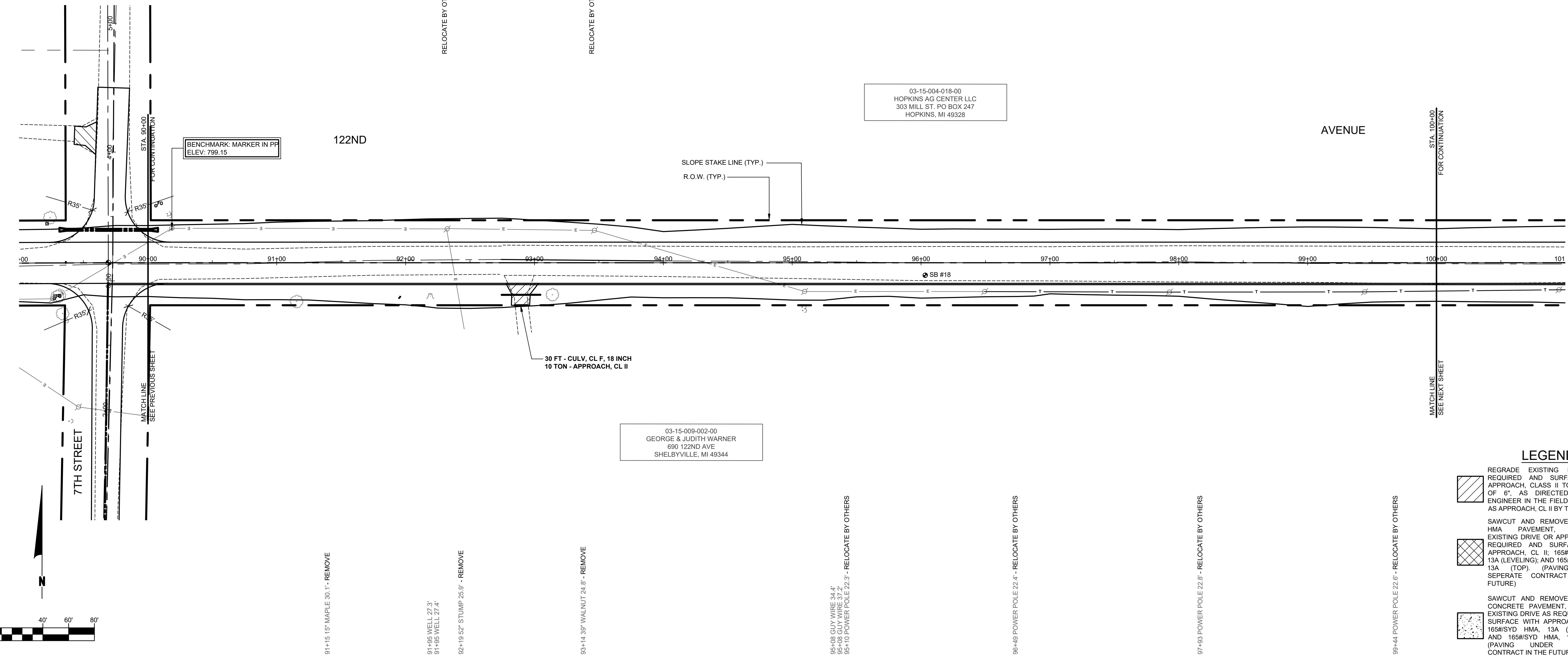
90+06 FIBER OPTIC POST 44.3'
 90+15 GUY WIRE 38.0'
 90+15 GUY WIRE 38.4'
 90+18 GUY WIRE 38.4'
 90+19 POWER POLE 26.7'
 90+19 POWER POLE 26.7'

RELOCATE BY OTHERS - 92-32 POWER POLE 26.2'

RELOCATE BY OTHERS - 93+46 POWER POLE 25.1'

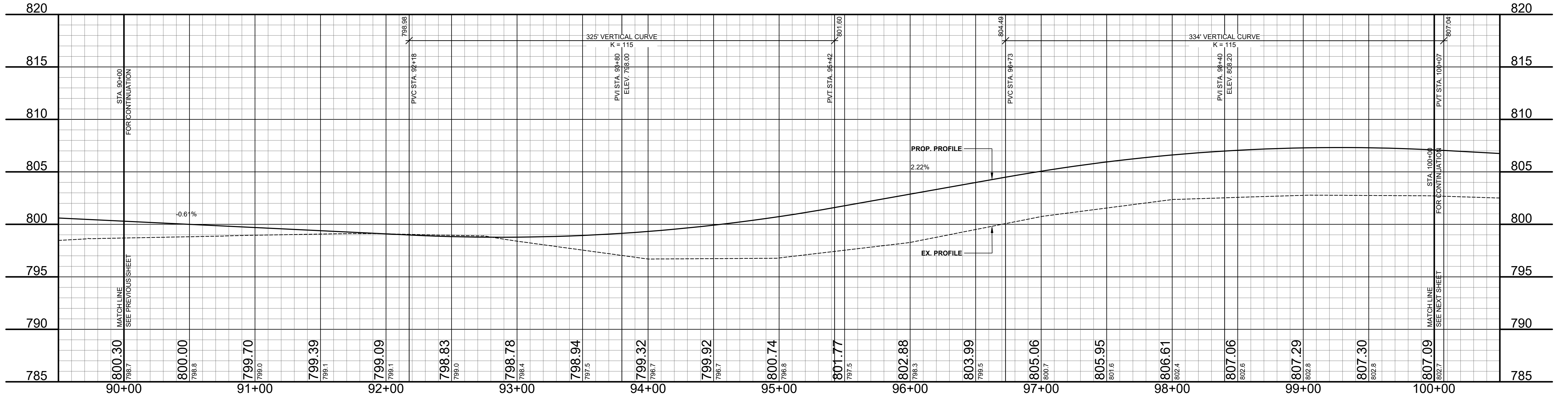
03-15-004-018-00
 HOPKINS AG CENTER LLC
 303 MILL ST. PO BOX 247
 HOPKINS, MI 49328

03-15-009-002-00
 GEORGE & JUDITH WARNER
 690 122ND AVE
 SHELBYVILLE, MI 49344



LEGEND

- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
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122ND AVENUE RECONSTRUCTION PROJECT
 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 PLAN & PROFILE - STA. 90+00 TO STA. 100+00

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: APRIL, 2021
 SCALE: 1"= 40'H, 5V

SOIL BORINGS

- SB #19**
 0 - 8" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
 8" - 20" DARK BROWN CLAYEY FINE TO MEDIUM SAND, LITTLE GRAVEL
 20" - 40" BROWN VERY CLAYEY MEDIUM SAND
 40" - 60" BROWN COARSE SAND AND GRAVEL
 60" END OF BORING
- SB #20**
 0 - 8" BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
 8" - 24" DARK BROWN CLAYEY FINE TO MEDIUM SAND
 24" - 42" BROWN VERY CLAYEY MEDIUM TO COARSE SAND
 42" - 60" BROWN COARSE SAND & FINE GRAVEL
 60" END OF BORING

03-15-004-018-00
 HOPKINS AG CENTER LLC
 303 MILL ST, PO BOX 247
 HOPKINS, MI 49328

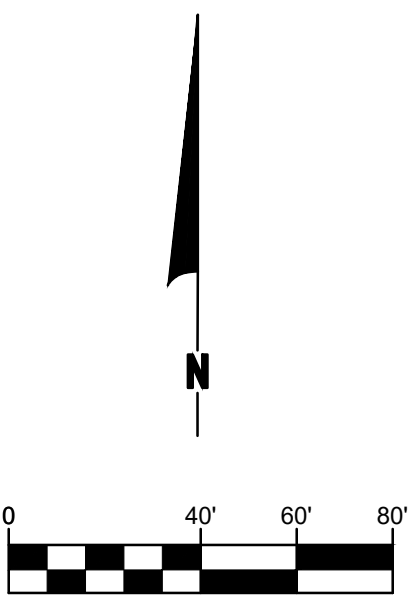
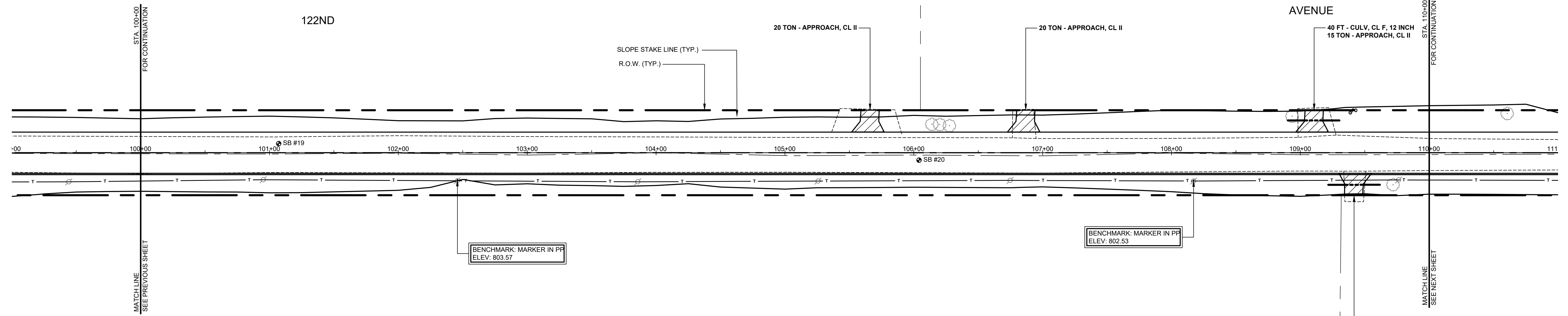
03-15-004-019-00
 VAN ELDEREN BROS
 2345 6TH ST
 SHELBYVILLE, MI 49344

03-15-008-002-00
 GEORGE & JUDITH WARNER
 690 122ND AVE
 SHELBYVILLE, MI 49344

REMOVE - 108+14 12" TREE 22.0'
 REMOVE - 106+20 12" TREE 21.9'
 REMOVE - 106+28 12" TREE 21.0'

REMOVE - 108+94 6" APPLE 28.3'

109+39 FIBER OPTIC POST 31.0'



100+95 POWER POLE 21.0' - RELOCATE BY OTHERS

102+46 BM IN SIDE RR SPIKE 21.0' - RELOCATE BY OTHERS

103+86 POWER POLE 22.6' - RELOCATE BY OTHERS

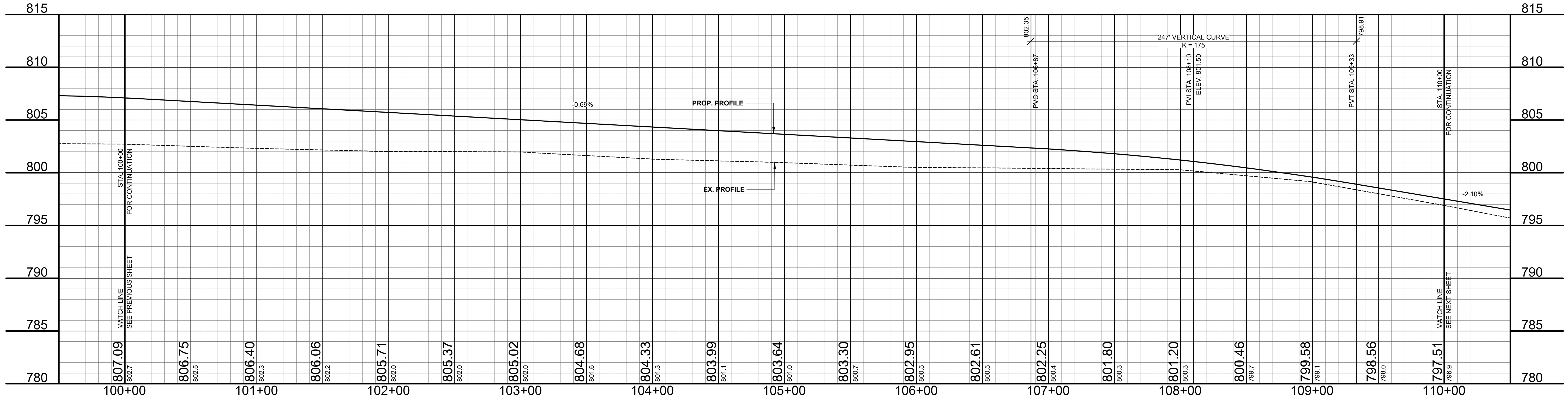
105+26 POWER POLE 22.0' - RELOCATE BY OTHERS

106+75 POWER POLE 21.5' - RELOCATE BY OTHERS

108+17 POWER POLE 22.0' - RELOCATE BY OTHERS
 108+17 BM IN SIDE RR SPIKE 21.3'

109+72 CHERRY 24.9' - REMOVE
 109+76 POWER POLE 21.1' - RELOCATE BY OTHERS

- LEGEND**
- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
 - SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
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122ND AVENUE RECONSTRUCTION PROJECT
 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 PLAN & PROFILE - STA. 100+00 TO STA. 110+00

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: APRIL, 2021
 SCALE: 1"= 40'H, 5V

SOIL BORINGS

SB #21	0 - 7"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	7" - 13"	DARK BROWN CLAYEY TOPSOIL
	13" - 24"	BROWN FINE TO MEDIUM SAND
	24" - 39"	BROWN FINE SAND
	39" - 60"	BROWN SANDY CLAY
	60"	END OF BORING
SB #22	0 - 15"	BROWN MEDIUM SAND AND FINE TO COARSE GRAVEL
	15" - 39"	BROWN CLAYEY MEDIUM SAND, SOME FINE TO COARSE GRAVEL
	39" - 60"	BROWN COARSE SAND AND FINE GRAVEL
	60"	END OF BORING

REMOVE - 110+60 15' APPLE 30.4'

111+25 15' WALNUT 41.3'

111+65 6' TREE 34.4'

REMOVE - 111+95 24' WALNUT 20.6'

111+99 9' PINE 44.9'

REMOVE - 112+09 24' STUMP 25.5'

REMOVE - 112+81 12' CMP 20.0'

113+40 9' APPLE 45.5'

113+42 POWER POLE 83.2'

REMOVE - 113+89 12' CMP 25.3'

REMOVE - 114+88 6' TREE 27.9'

REMOVE - 115+04 6' TREE 30.0'

115+23 GUY WIRE 33.1'

115+37 POWER POLE 32.6'

116+00 MAIL BOX 33.4'

116+04 21' TREE 39.2'

116+08 BUSH 36.5'

116+11 FIBER OPTIC POST 40.3'

116+14 TELE M 37.1'

116+17 BN SW SIDE RR SPIKE 28.9'

116+18 TELE RISER BOX 32.2'

116+23 GUY WIRE 46.5'

REMOVE - 116+92 15' TREE 17.9'

03-15-004-019-00
VAN ELDEREN BROS
2345 6TH ST
SHELBYVILLE, MI 49344

03-15-009-001-00
VAN ELDEREN BROS
2345 6TH ST
SHELBYVILLE, MI 49344

03-15-003-006-00
VAN ELDEREN BROS
2345 6TH ST
SHELBYVILLE, MI 49344

03-15-010-001-02
JONATHAN & HOLLEY LANKAMP
2173 6TH ST
SHELBYVILLE, MI 49344

SEE SHEET 15 FOR 6TH STREET
PLAN AND PROFILE,
CULVERT DETAILS

BENCHMARK: MARKER IN PP
ELEV: 777.66

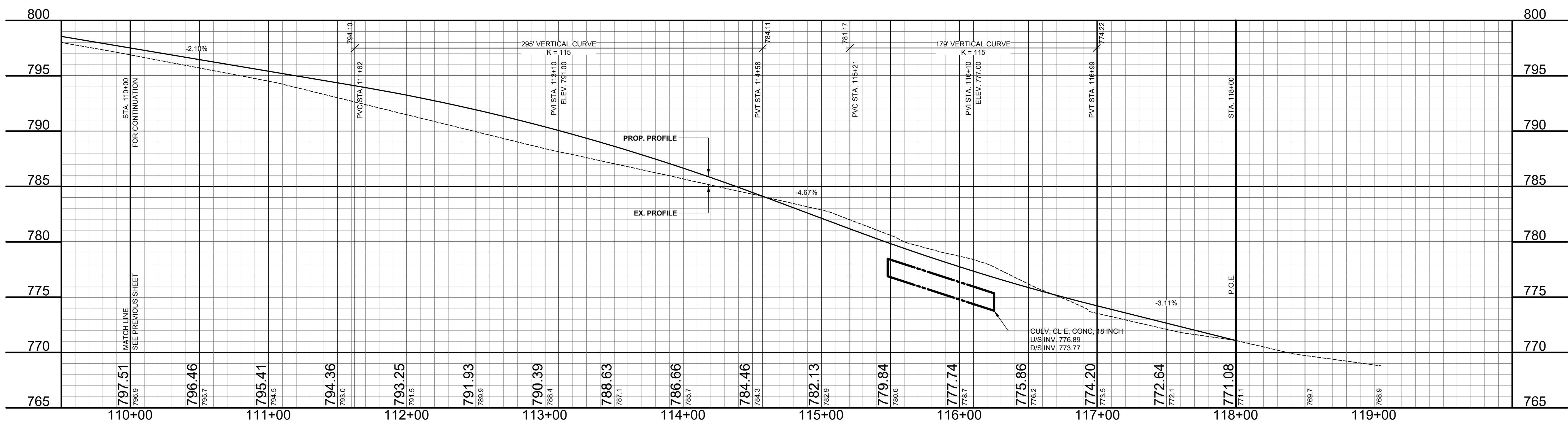
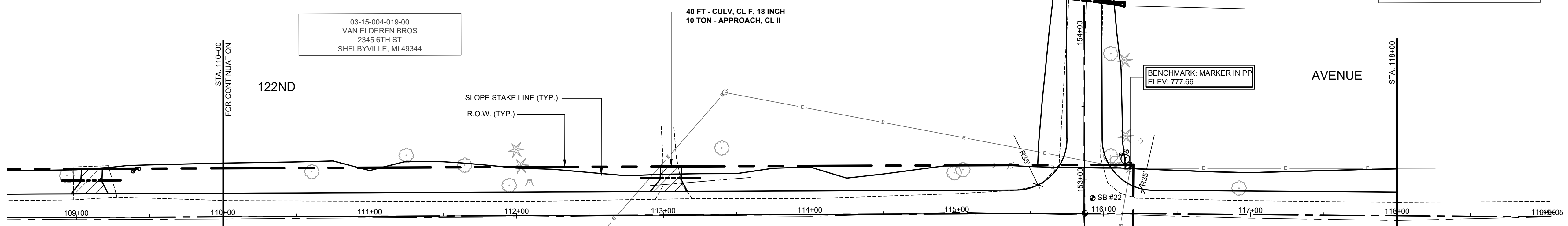
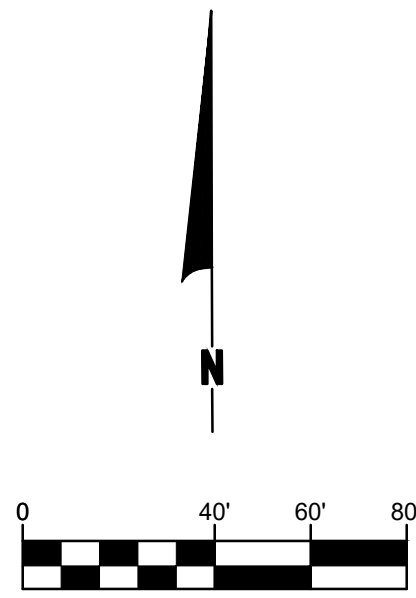
STA: 115+48.00
OFFSET: 25.0
PROP INV. 776.89

CAUTION: UNDERGROUND
COMMUNICATIONS UTILITIES

64 FT - CULV. CL. E. CONC. 18 INCH @ 4.1%
2 EA - CULV END SECT. CONC. 18 INCH
20 SYD - RIPRAP, HEAVY
STA: 116+25.00 OFFSET: 25.0
PROP INV. 773.77

LEGEND

	REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TOWN.
	SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP) (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)



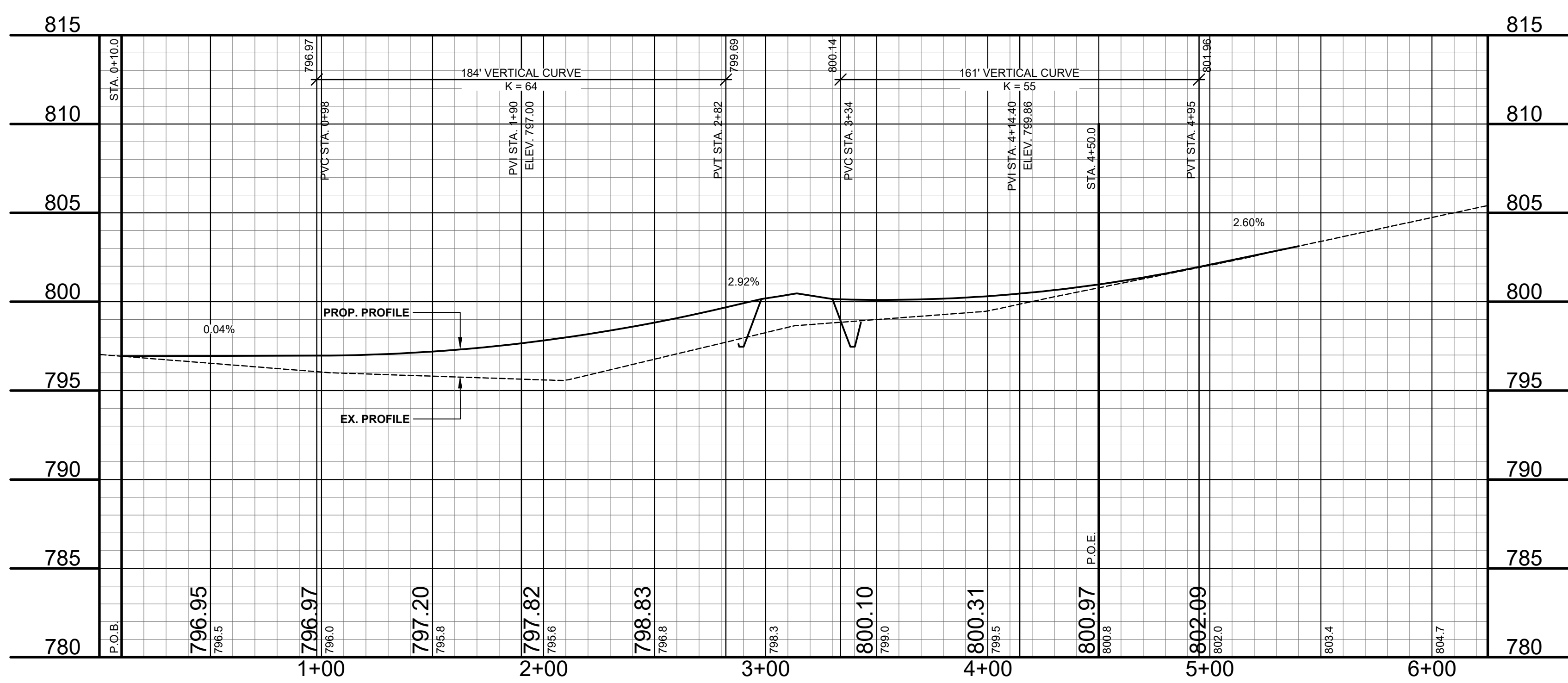
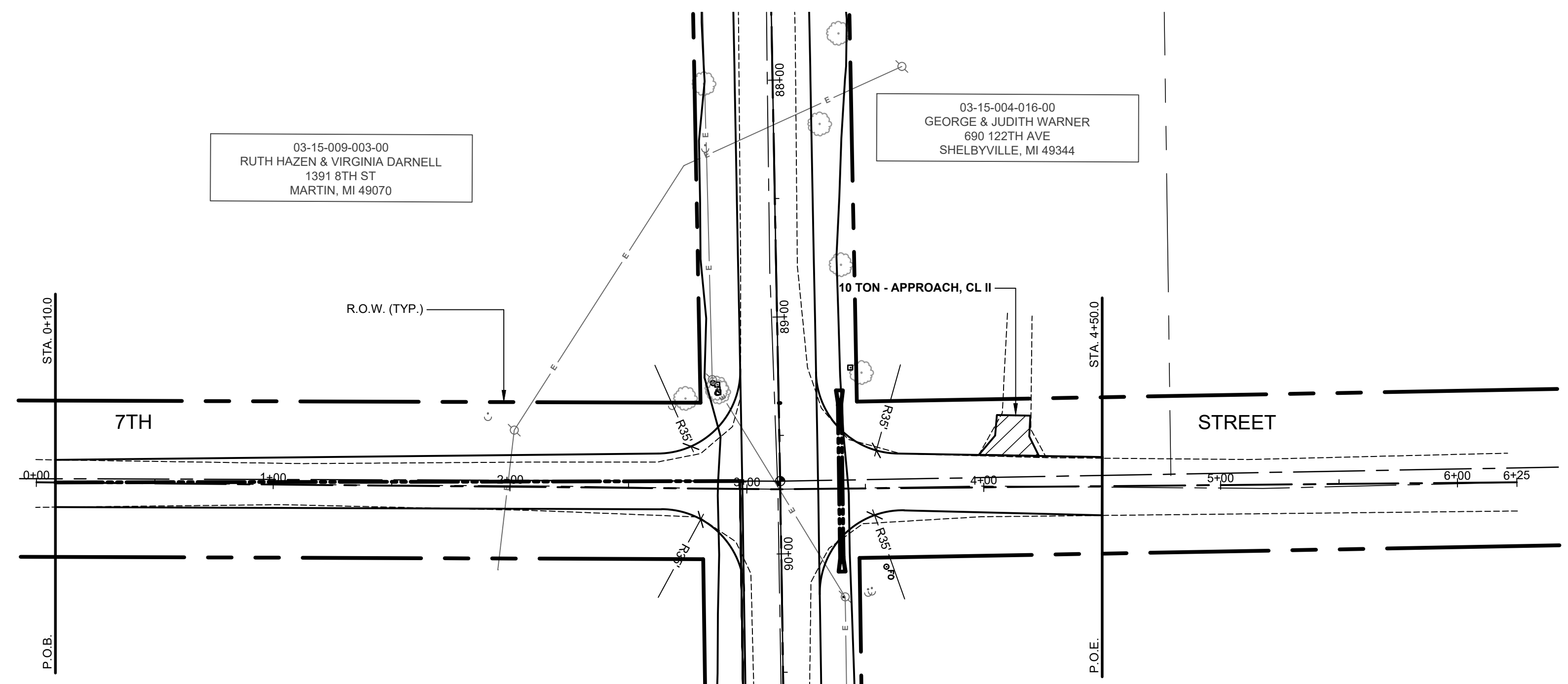
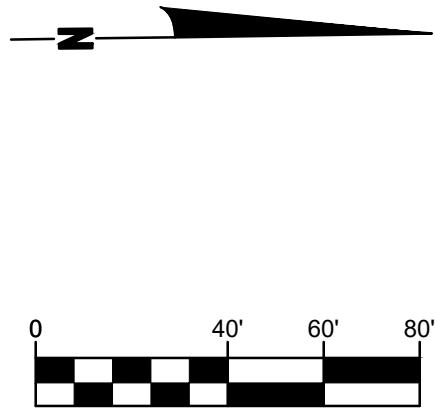
**Board of County Road Commissioners
Of Allegan County**
1308 LINCOLN ROAD
ALLEGAN, MICHIGAN 49010-9762
TELEPHONE (269) 673-2184 www.alleganroads.org FAX (269) 673-5922

REVISIONS

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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
PLAN & PROFILE - STA. 110+00 TO P.O.E.

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5'V



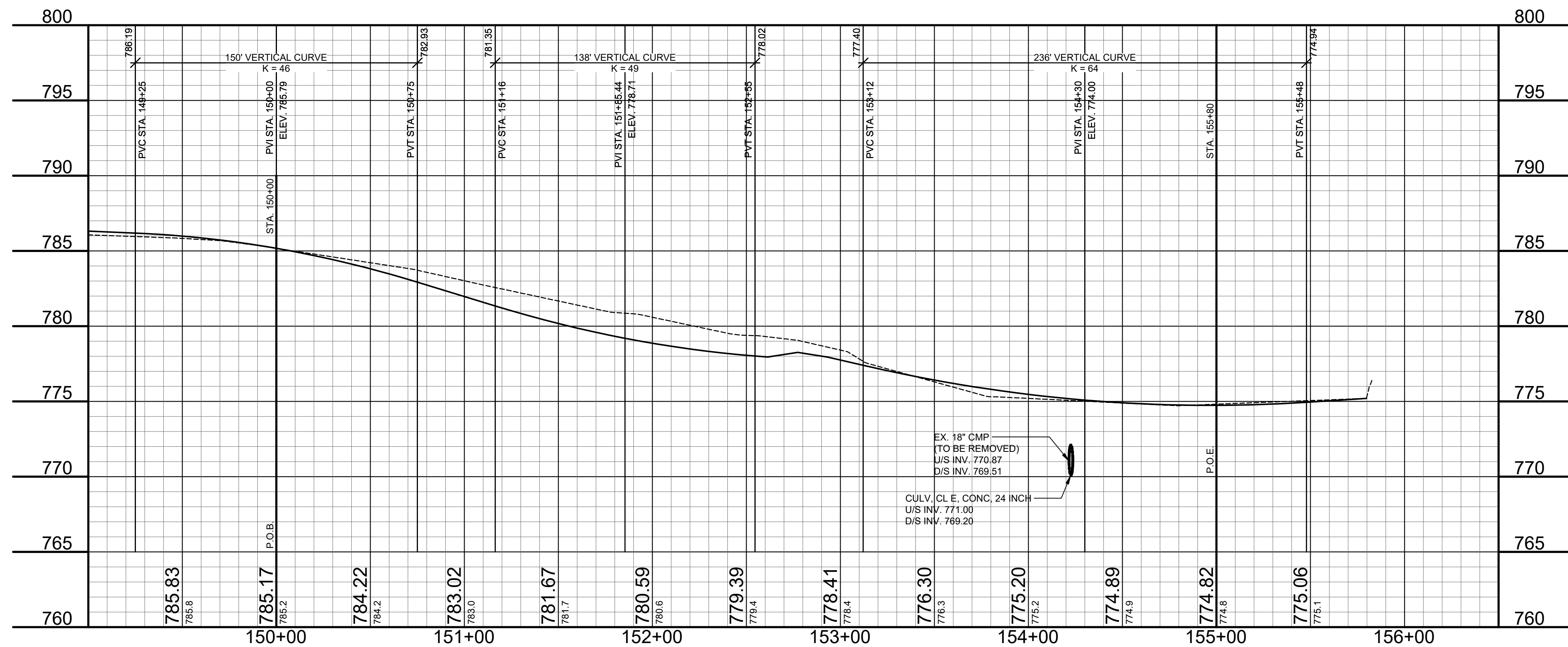
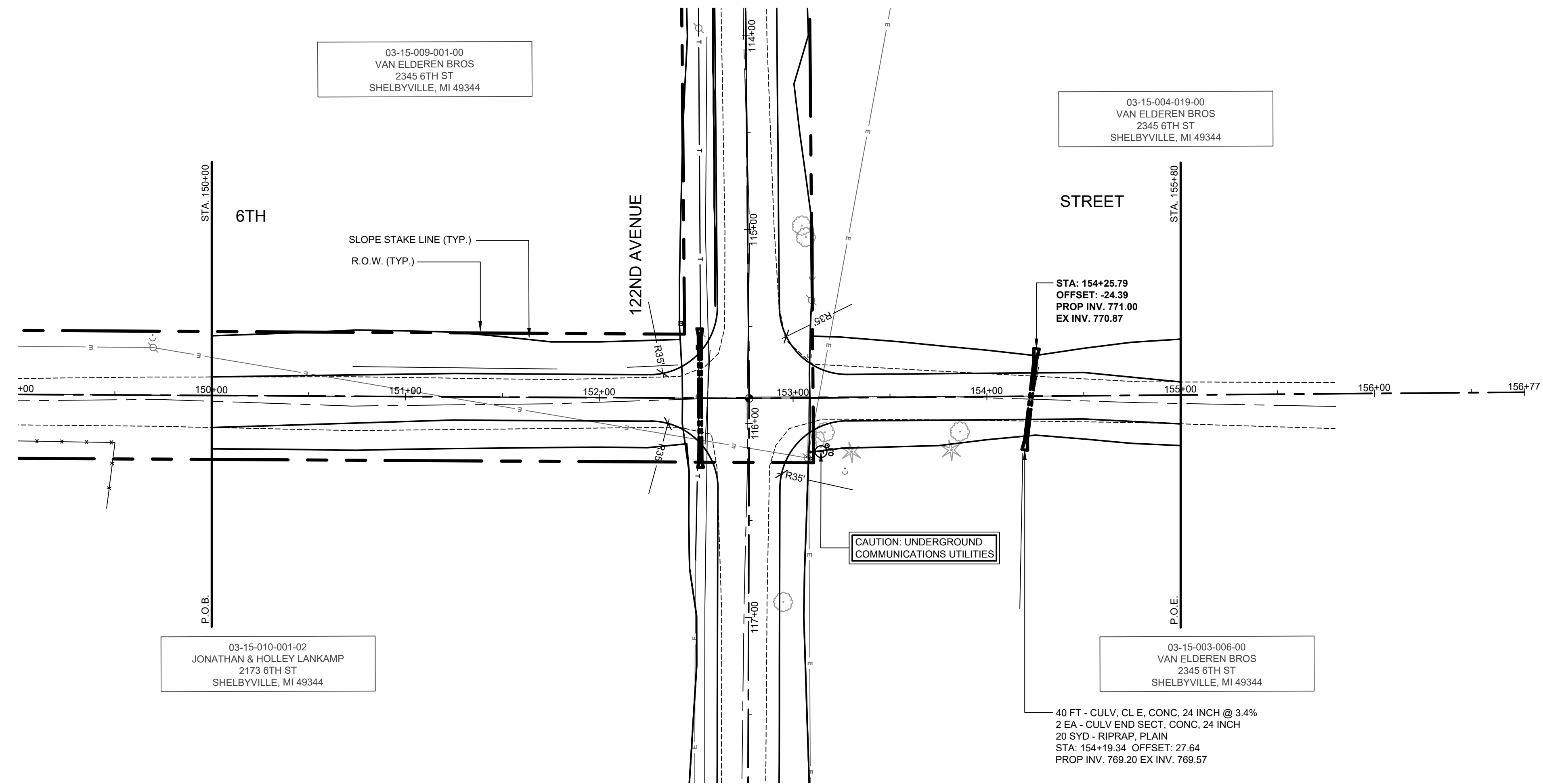
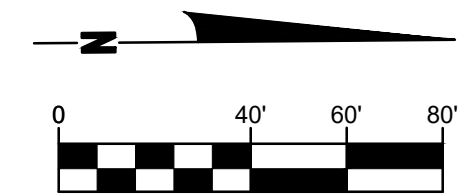
- LEGEND**
- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
 - SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP). (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
 - SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP). (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)

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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET

PLAN & PROFILE - 7TH STREET

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5V



- LEGEND**
- REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CLASS II TO A DEPTH OF 6" AS DIRECTED BY THE ENGINEER IN THE FIELD, PAID FOR AS APPROACH, CL II BY THE TON.
 - SAWCUT AND REMOVE EXISTING HMA PAVEMENT. REGRADE EXISTING DRIVE OR APPROACH AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP). (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)
 - SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT. REGRADE EXISTING DRIVE AS REQUIRED AND SURFACE WITH APPROACH, CL II; 165#/SYD HMA, 13A (LEVELING); AND 165#/SYD HMA, 13A (TOP). (PAVING UNDER SEPARATE CONTRACT IN THE FUTURE)

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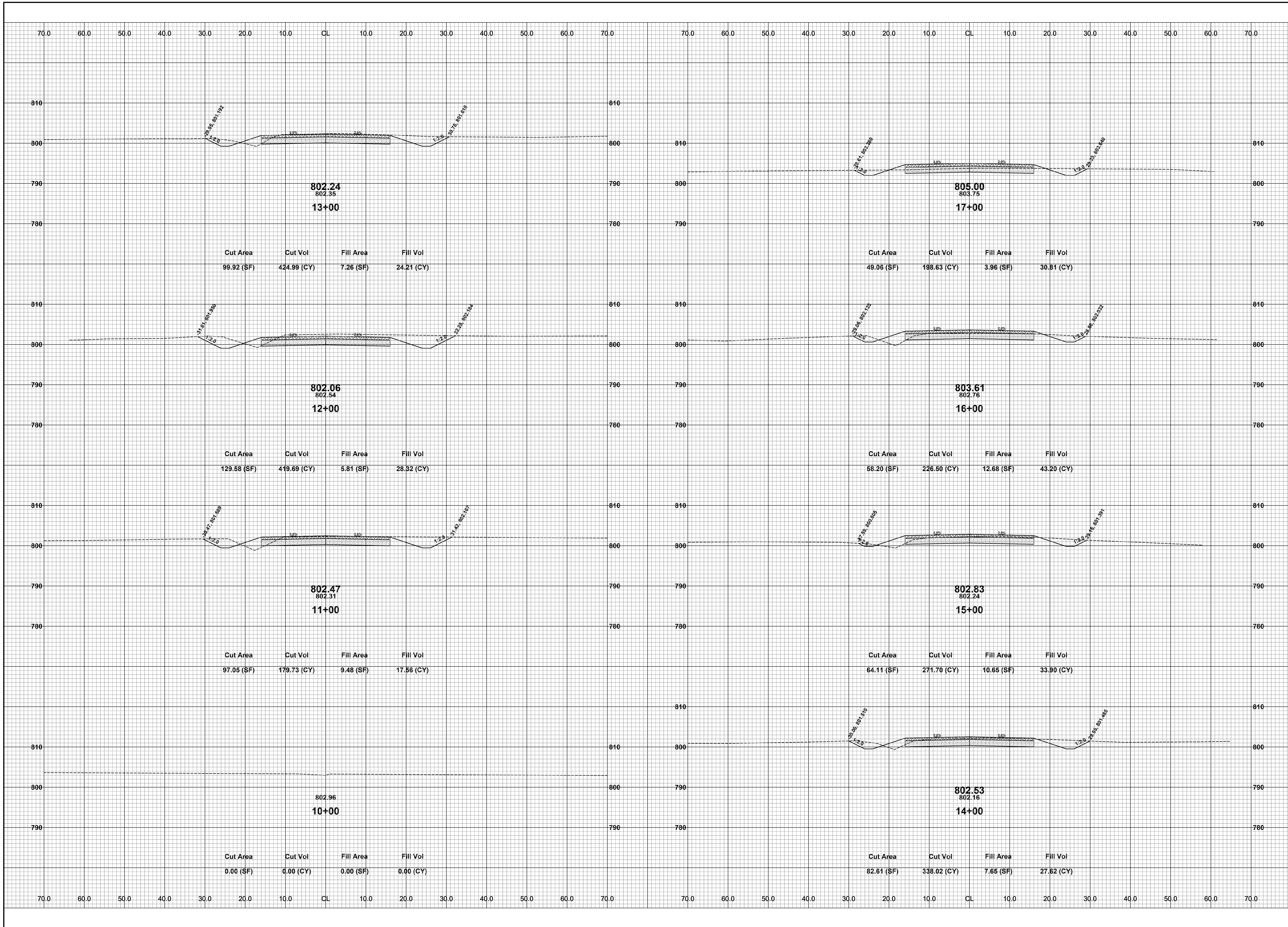
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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET

PLAN & PROFILE - 6TH STREET

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: APRIL, 2021
SCALE: 1"= 40'H, 5V

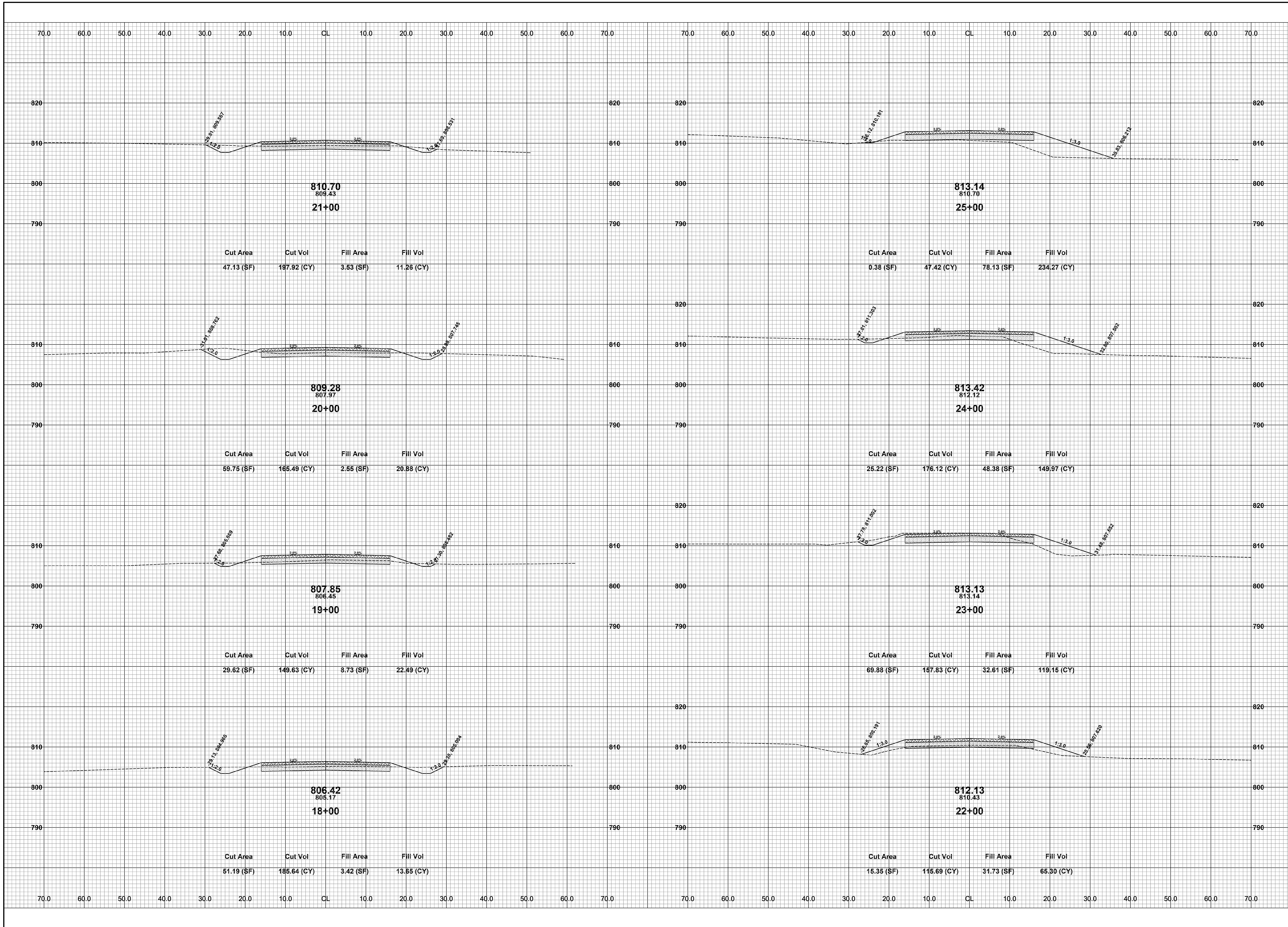


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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
CROSS SECTIONS - P.O.B. TO STA. 17+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1"= 10'



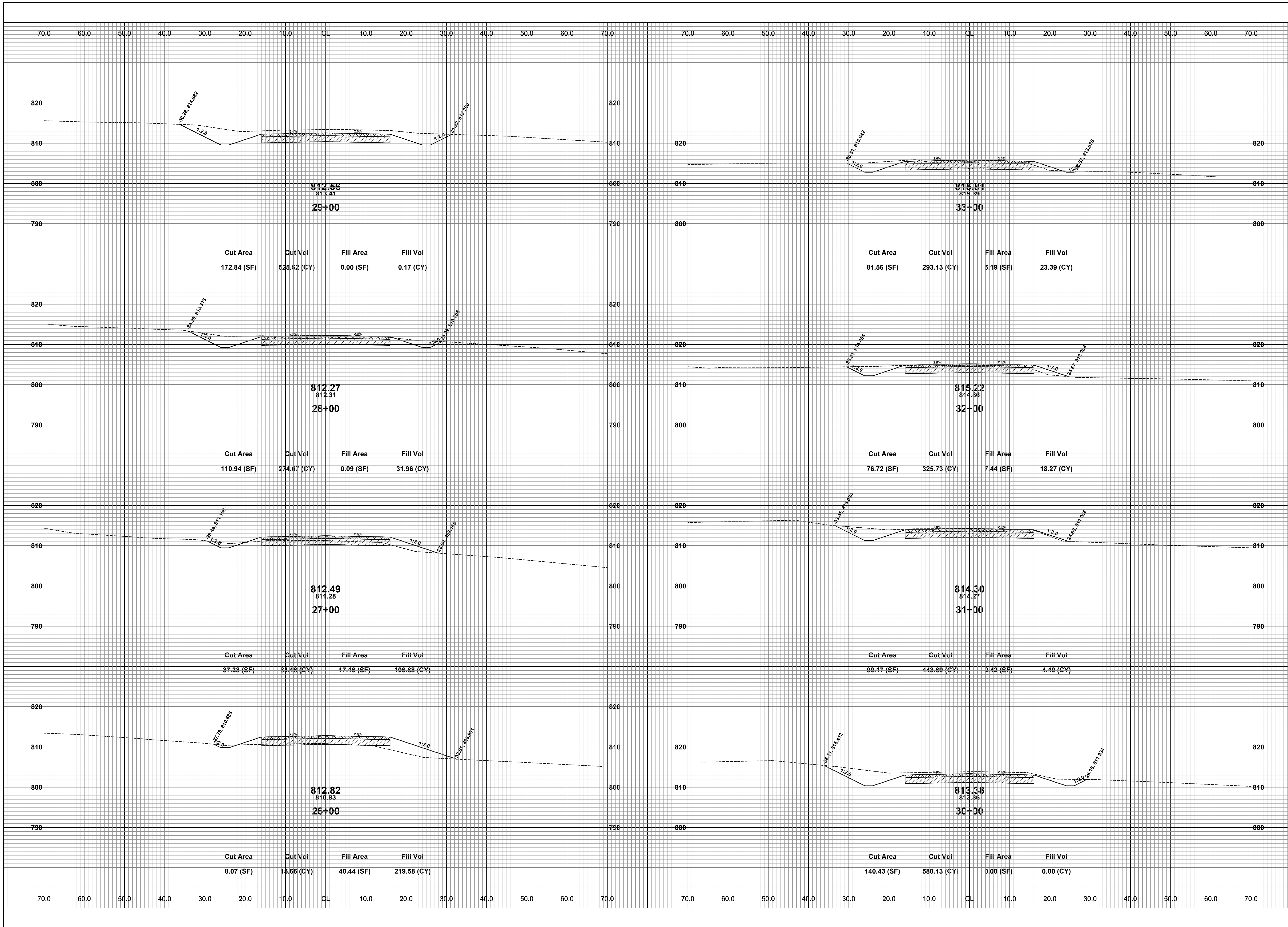
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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
CROSS SECTIONS - STA. 18+00 TO STA. 25+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1"= 10'

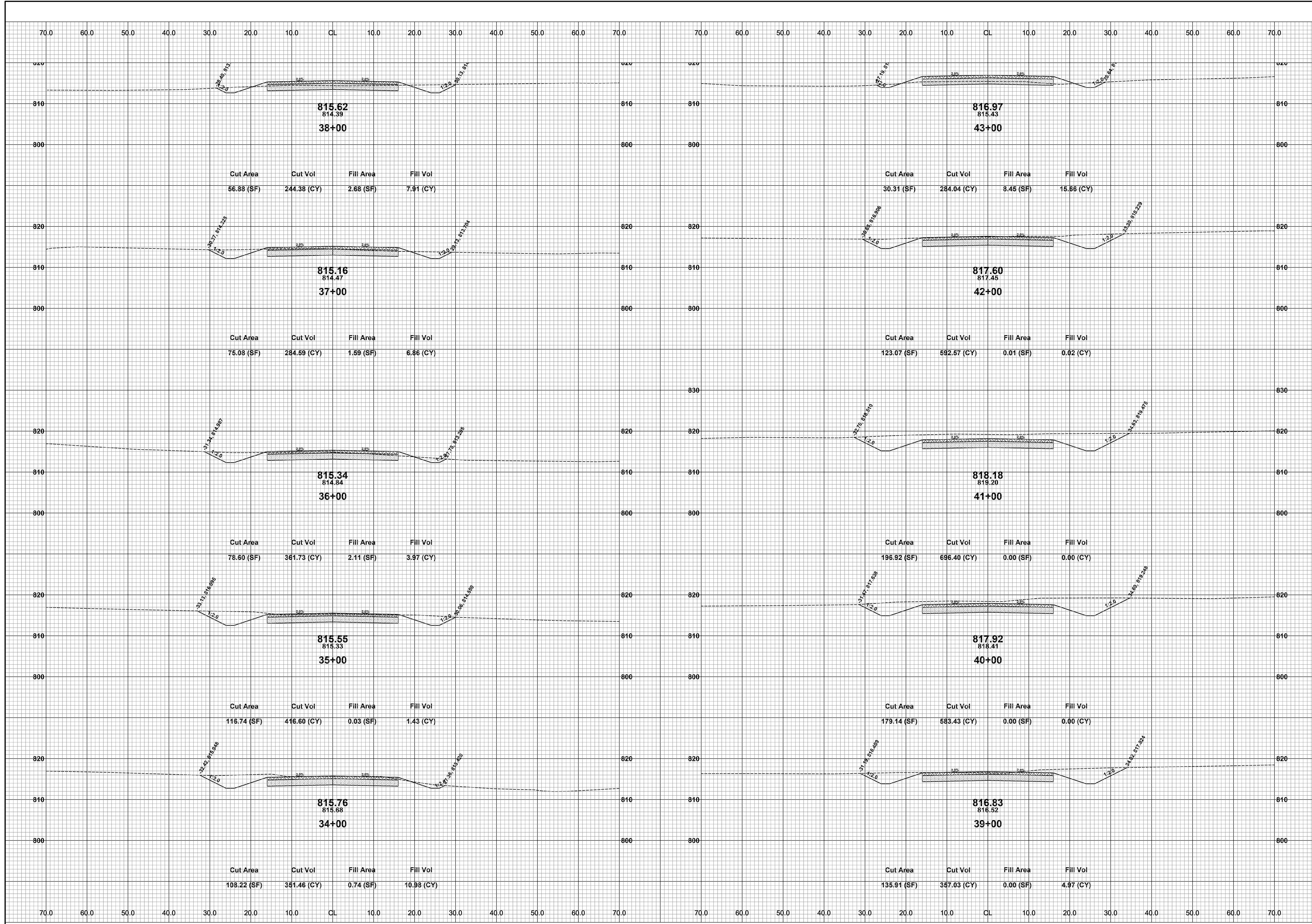


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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
CROSS SECTIONS - STA. 26+00 TO STA. 33+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1"= 10'



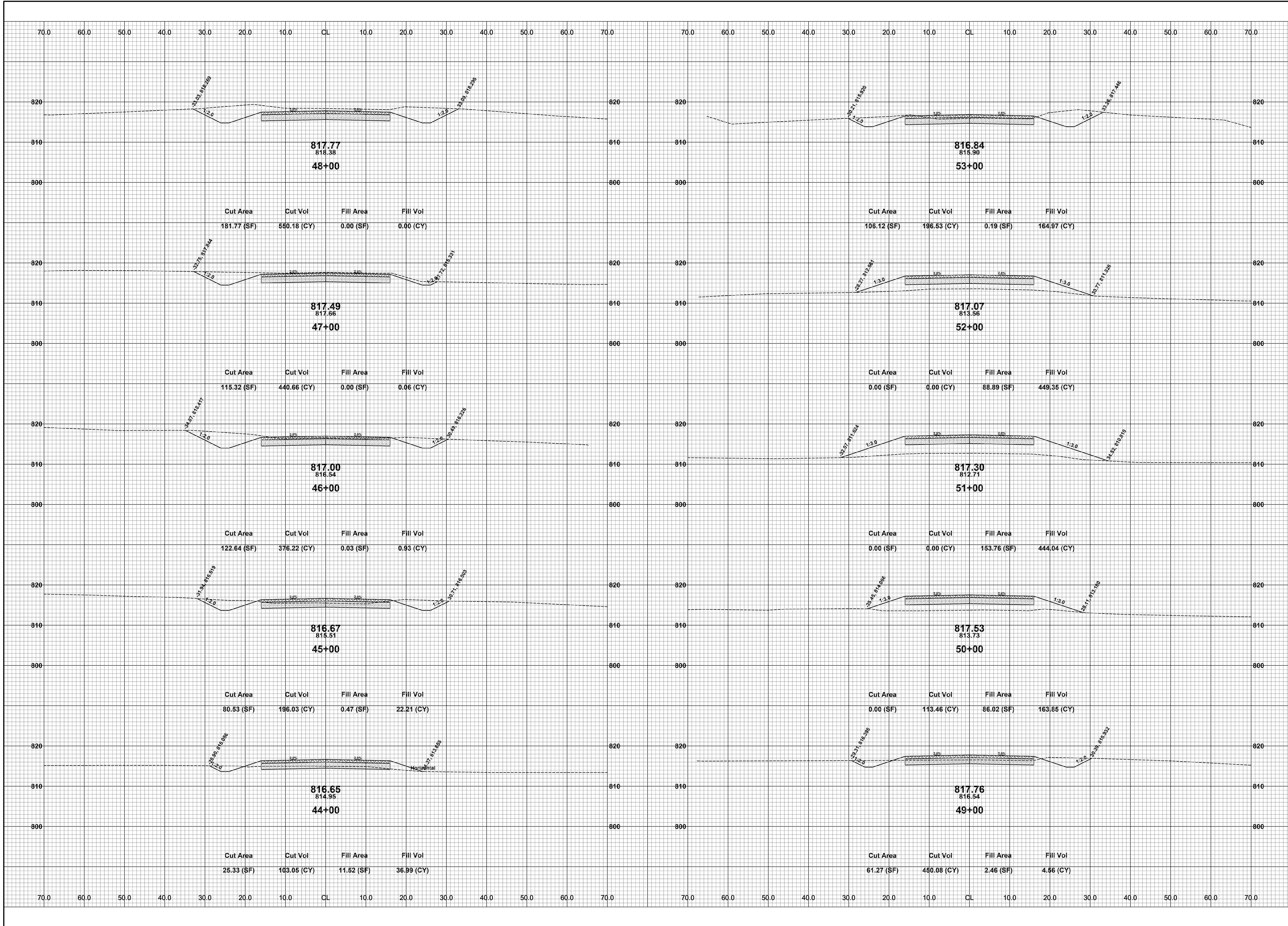
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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
CROSS SECTIONS - STA. 34+00 TO STA. 43+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1" = 10'



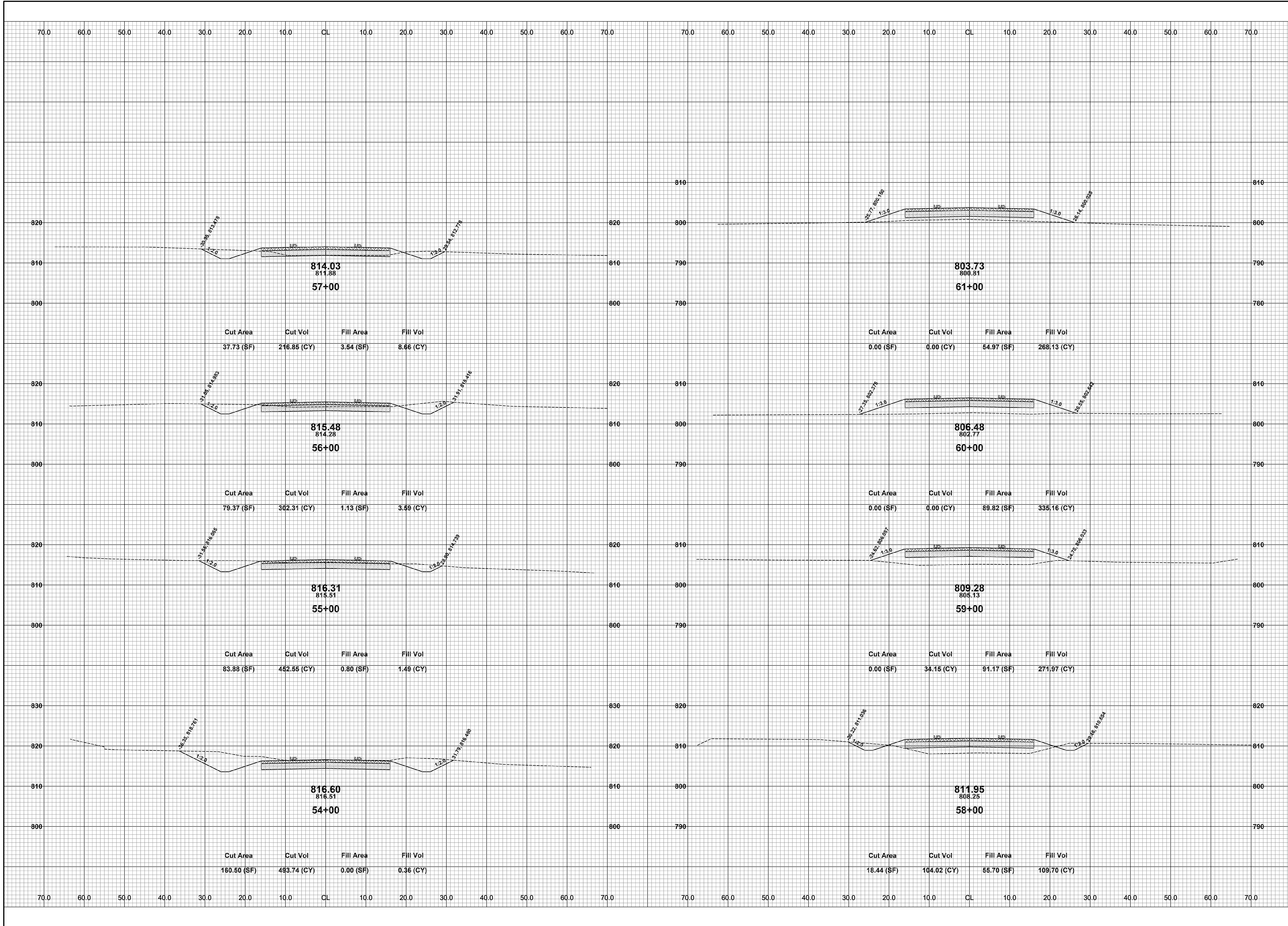
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122ND AVENUE RECONSTRUCTION PROJECT
 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 CROSS SECTIONS - STA. 44+00 TO STA. 53+00

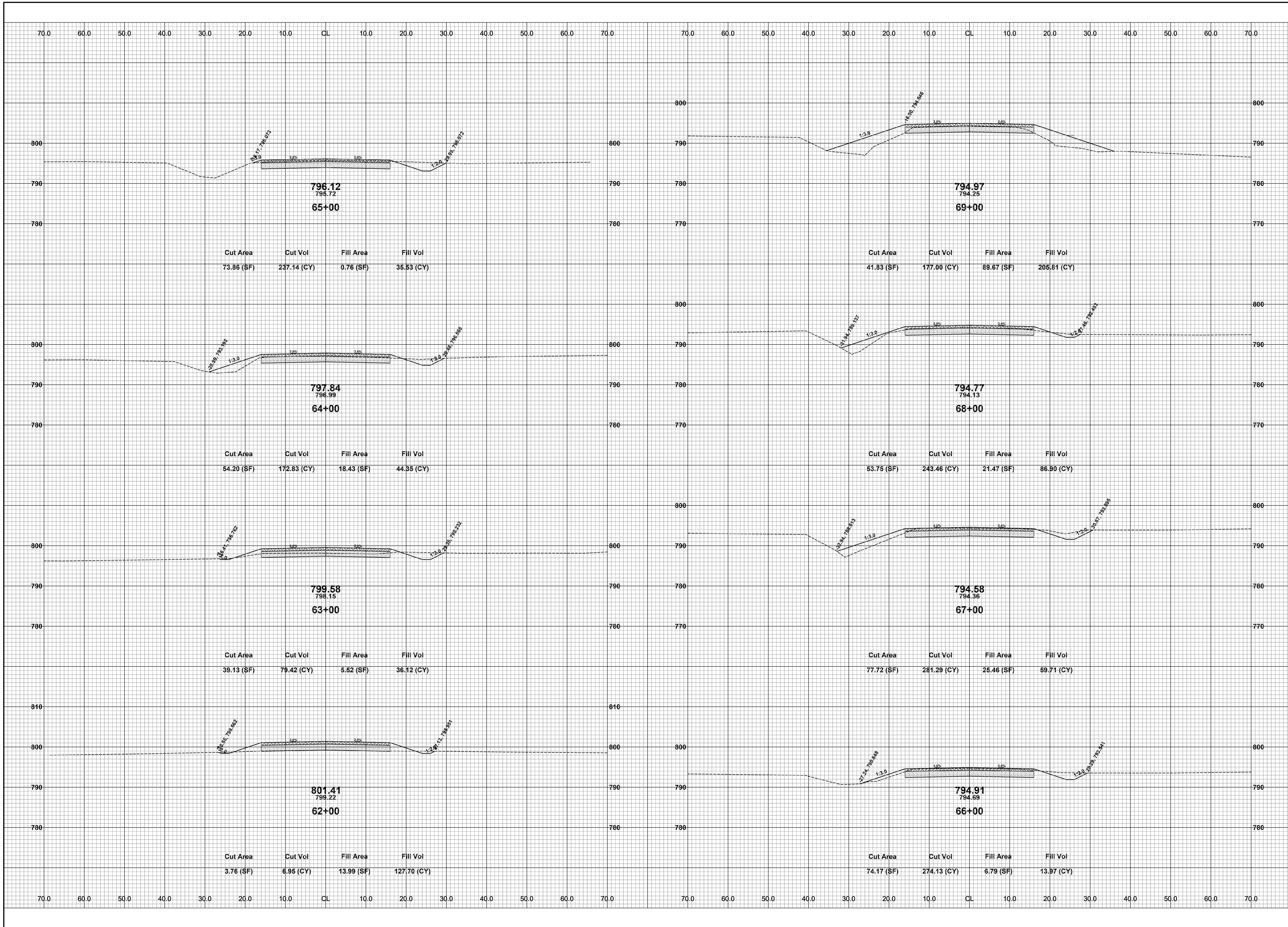
DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: JULY, 2021
 SCALE: 1" = 10'



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122ND AVENUE RECONSTRUCTION PROJECT
 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 CROSS SECTIONS - STA. 54+00 TO STA. 61+00

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: JULY, 2021
 SCALE: 1"= 10'

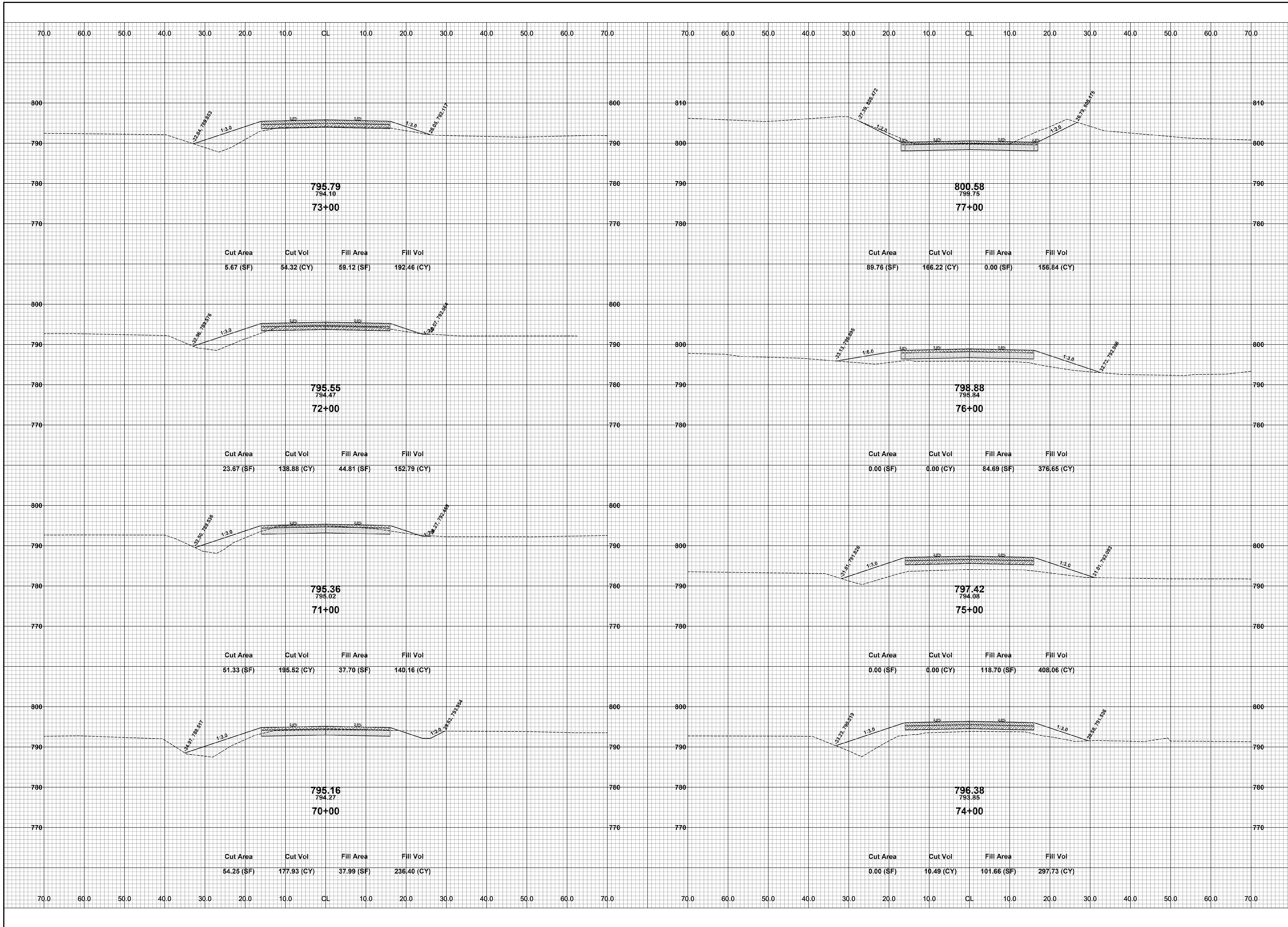


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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
CROSS SECTIONS - STA. 62+00 TO STA. 69+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1"= 10'

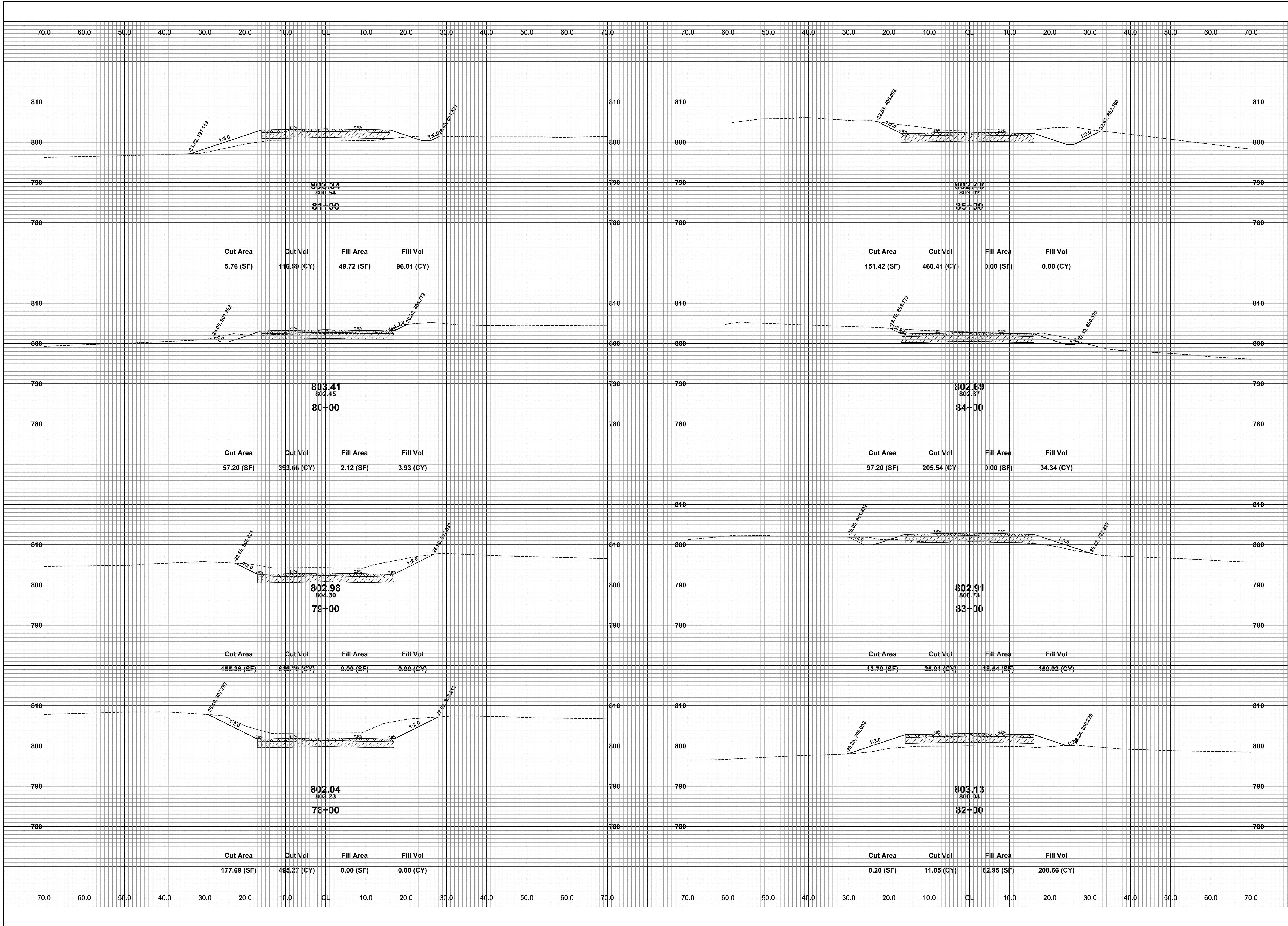


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122ND AVENUE RECONSTRUCTION PROJECT
 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 CROSS SECTIONS - STA. 70+00 TO STA. 77+00

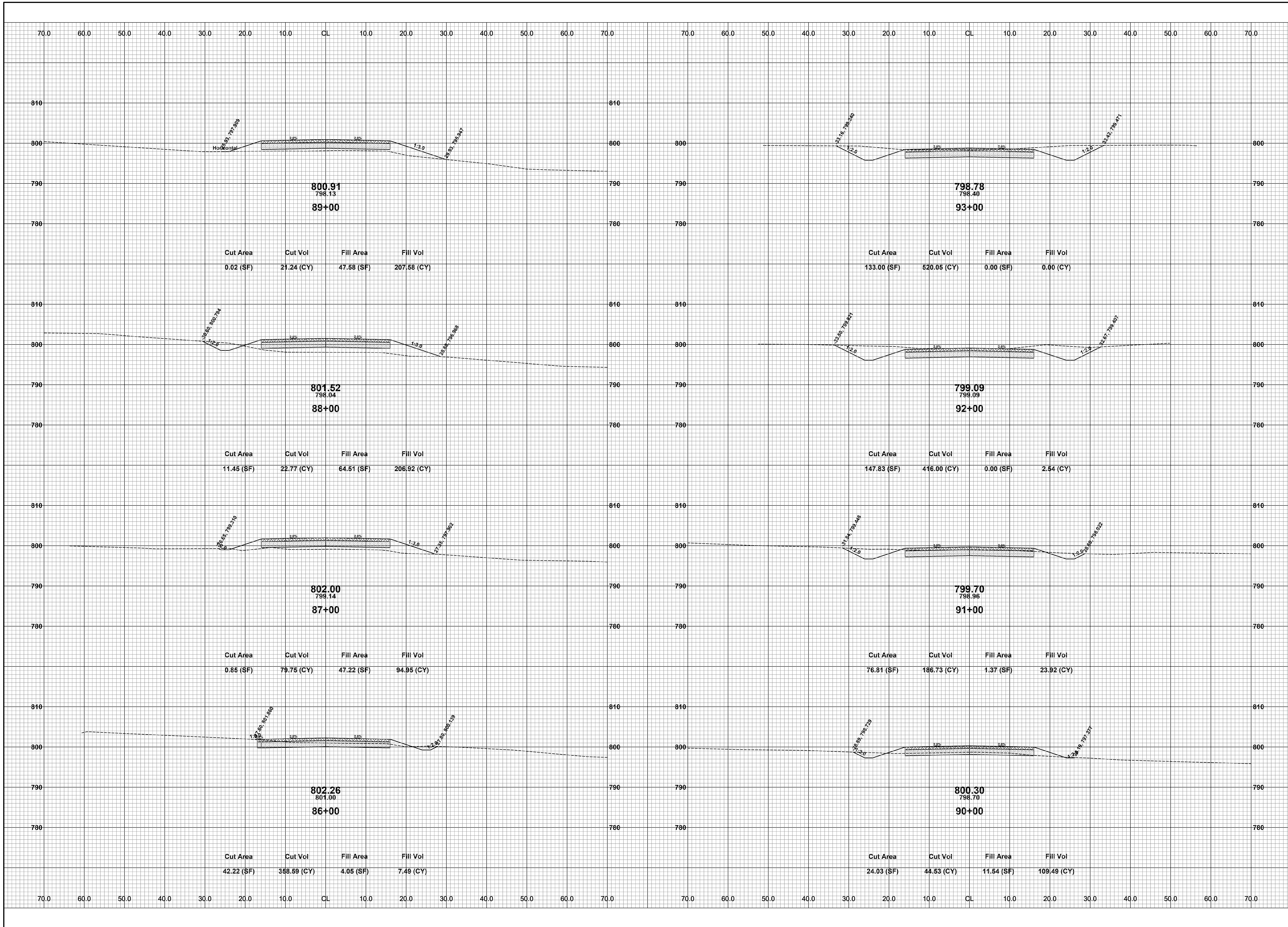
DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: JULY, 2021
 SCALE: 1"= 10'



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122ND AVENUE RECONSTRUCTION PROJECT
 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 CROSS SECTIONS - STA. 78+00 TO STA. 85+00

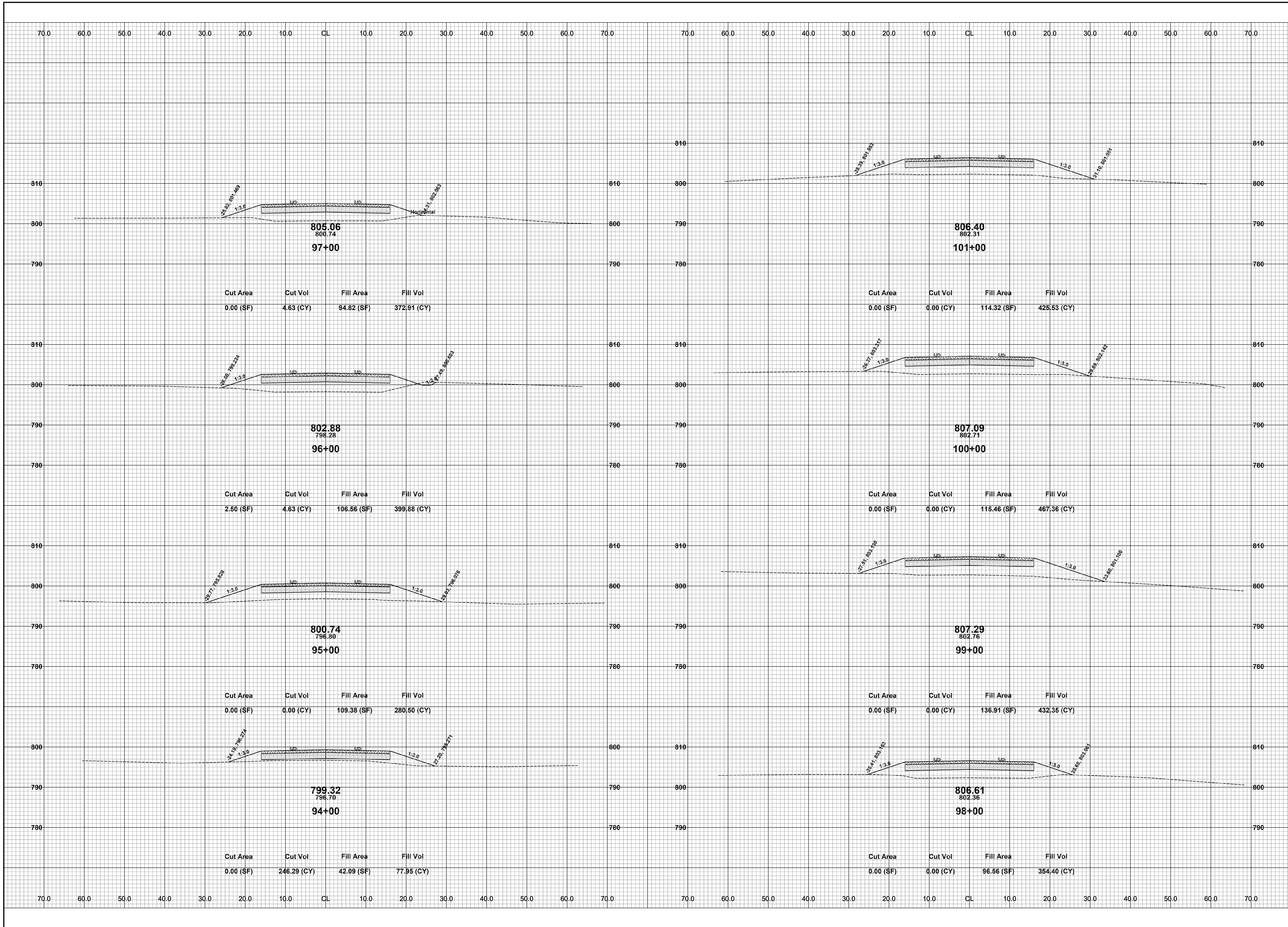
DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: JULY, 2021
 SCALE: 1" = 10'



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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
CROSS SECTIONS - STA. 86+00 TO STA. 93+00

DRAWN BY: RPB
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1"= 10'

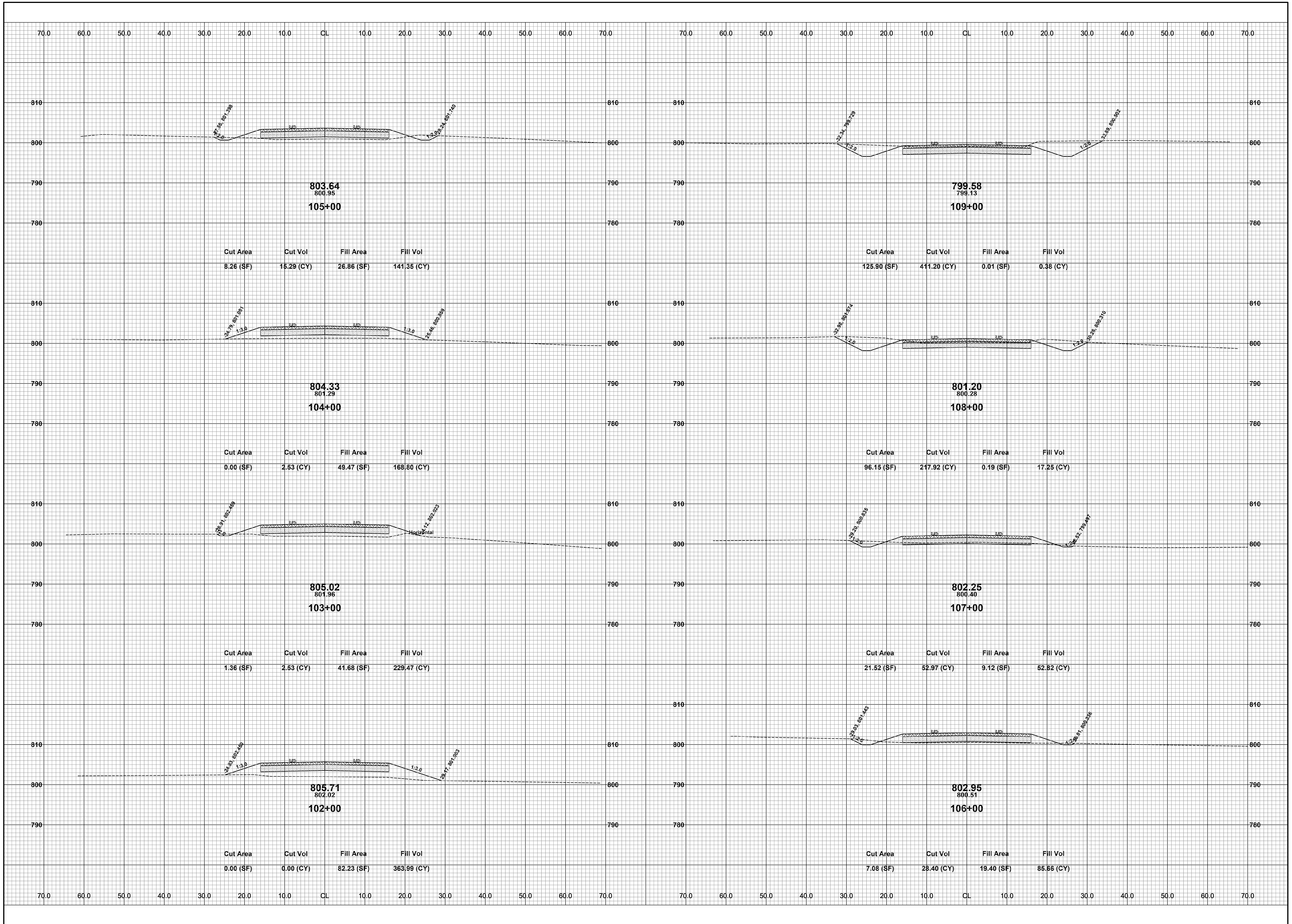


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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
CROSS SECTIONS - STA. 94+00 TO STA. 101+00

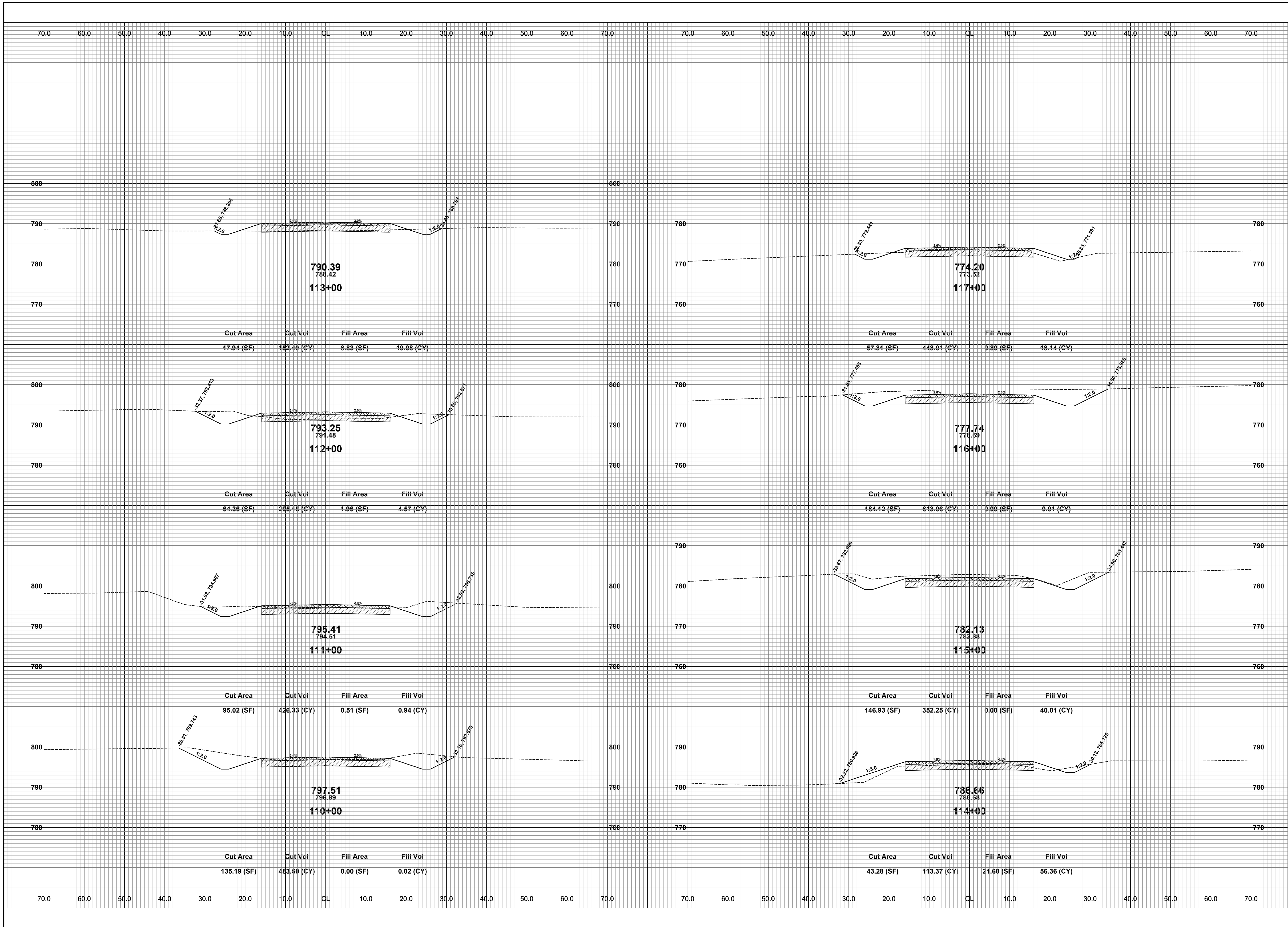
DRAWN BY: RPB
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1" = 10'



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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
CROSS SECTIONS - STA. 102+00 TO STA. 109+00

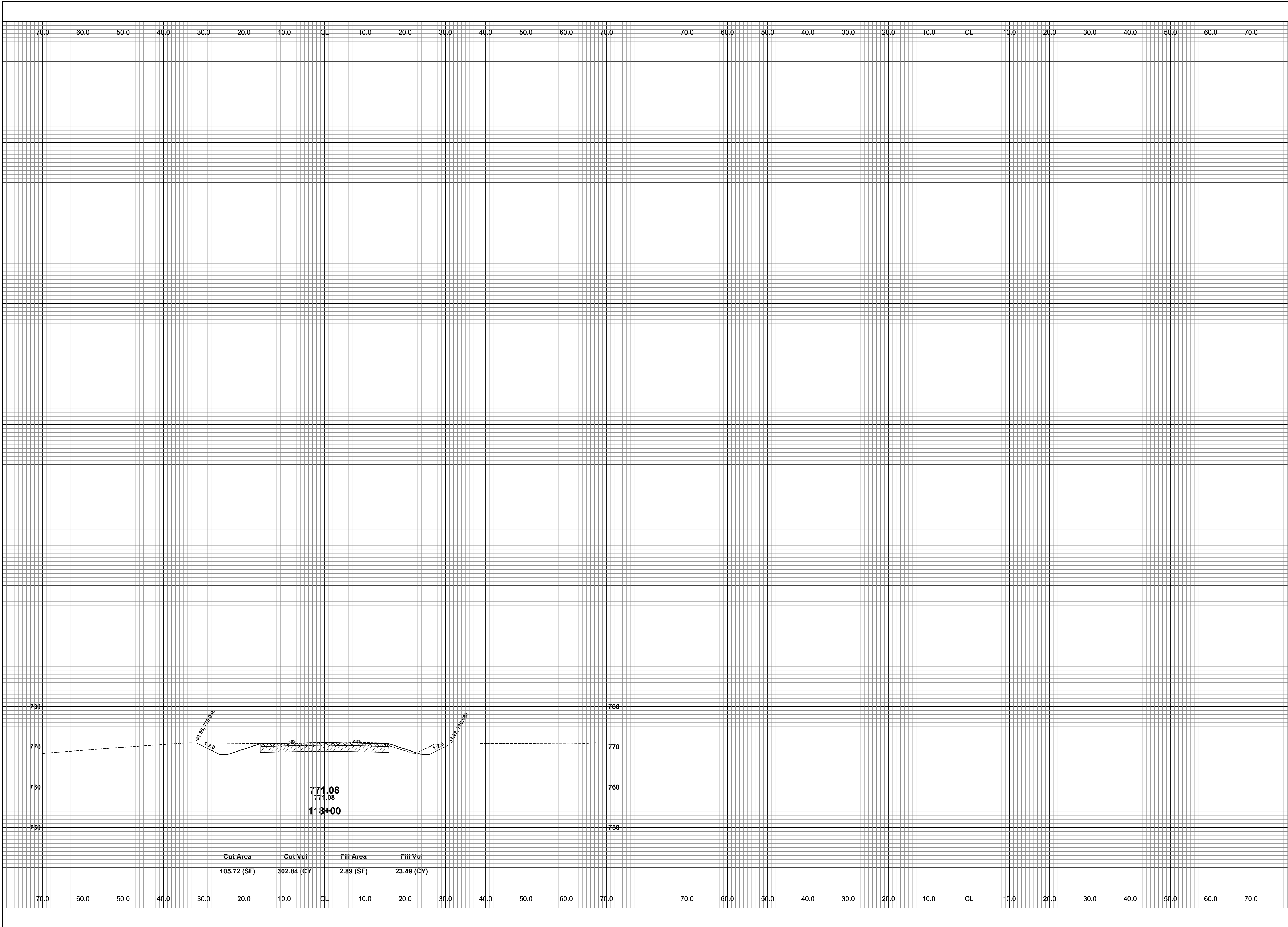
DRAWN BY: RPB
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1" = 10'



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122ND AVENUE RECONSTRUCTION PROJECT
 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 CROSS SECTIONS - STA. 110+00 TO STA. 117+00

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: JULY, 2021
 SCALE: 1"= 10'

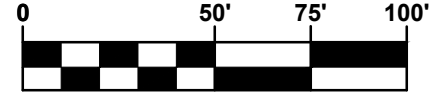
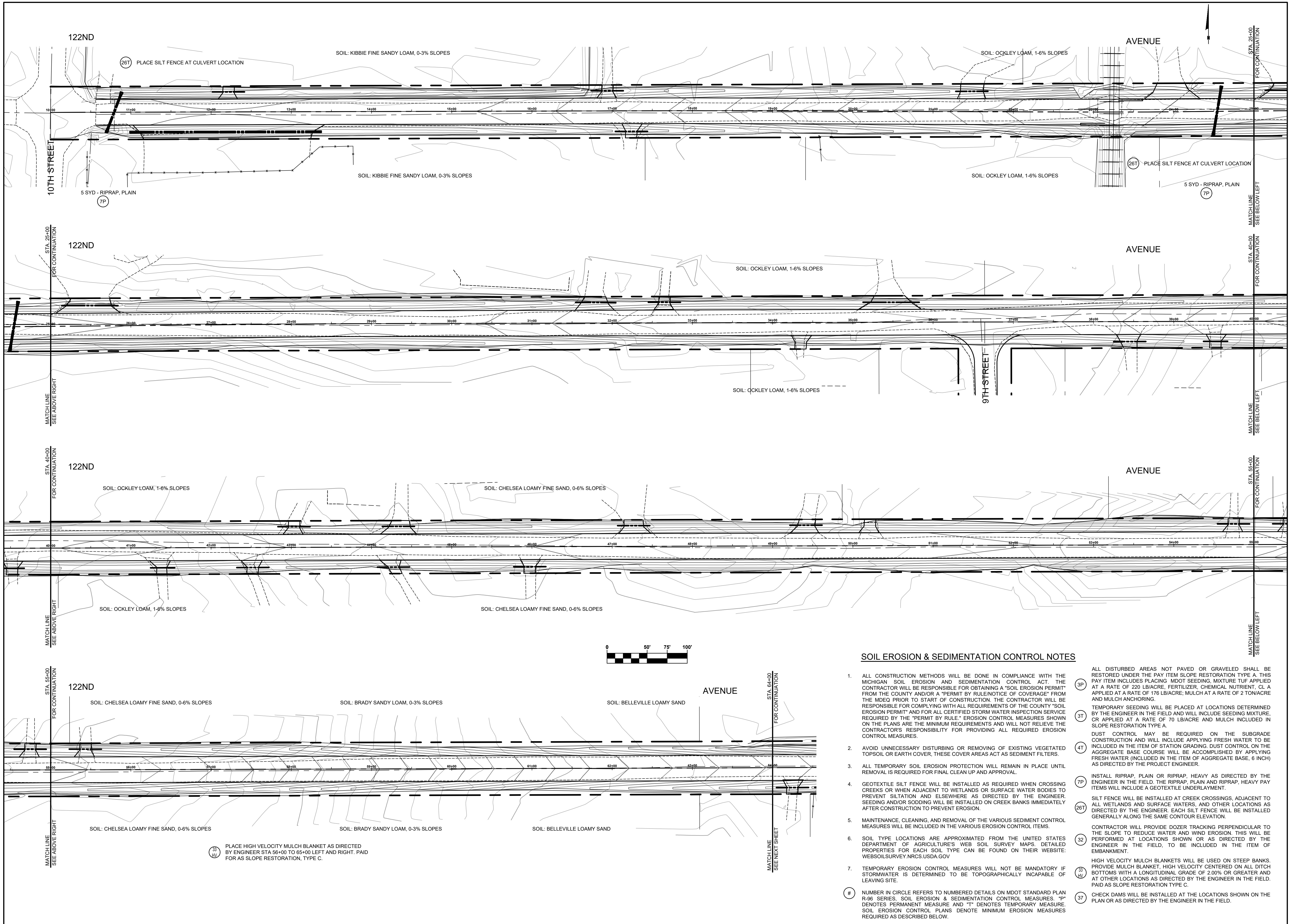


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122ND AVENUE RECONSTRUCTION PROJECT
 MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
 CROSS SECTIONS - STA. 118+00

DRAWN BY: RPB
 REVIEWED BY: JSE
 DATE: JULY, 2021
 SCALE: 1"= 10'



SOIL EROSION & SEDIMENTATION CONTROL NOTES

- ALL CONSTRUCTION METHODS WILL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE COUNTY AND/OR A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM THE MDEQ PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE COUNTY "SOIL EROSION PERMIT" AND FOR ALL CERTIFIED STORM WATER INSPECTION SERVICE REQUIRED BY THE "PERMIT BY RULE." EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS AND WILL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL REQUIRED EROSION CONTROL MEASURES.
 - AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER, THESE COVER AREAS ACT AS SEDIMENT FILTERS.
 - ALL TEMPORARY SOIL EROSION PROTECTION WILL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
 - GEOTEXTILE SILT FENCE WILL BE INSTALLED AS REQUIRED WHEN CROSSING CREEKS OR WHEN ADJACENT TO WETLANDS OR SURFACE WATER BODIES TO PREVENT SILTATION AND ELSEWHERE AS DIRECTED BY THE ENGINEER. SEEDING AND/OR SODDING WILL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
 - MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES WILL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.
 - SOIL TYPE LOCATIONS ARE APPROXIMATED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE'S WEB SOIL SURVEY MAPS. DETAILED PROPERTIES FOR EACH SOIL TYPE CAN BE FOUND ON THEIR WEBSITE: WEBSOILSURVEY.NRCS.USDA.GOV
 - TEMPORARY EROSION CONTROL MEASURES WILL NOT BE MANDATORY IF STORMWATER IS DETERMINED TO BE TOPOGRAPHICALLY INCAPABLE OF LEAVING SITE.
- ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED UNDER THE PAY ITEM SLOPE RESTORATION TYPE A. THIS PAY ITEM INCLUDES PLACING MIDOT SEEDING MIXTURE TUF APPLIED AT A RATE OF 220 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL A APPLIED AT A RATE OF 176 LB/ACRE, MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING.
- TEMPORARY SEEDING WILL BE PLACED AT LOCATIONS DETERMINED BY THE ENGINEER IN THE FIELD AND WILL INCLUDE SEEDING MIXTURE, OR APPLIED AT A RATE OF 70 LB/ACRE AND MULCH INCLUDED IN SLOPE RESTORATION TYPE A.
- DUST CONTROL MAY BE REQUIRED ON THE SUBGRADE CONSTRUCTION AND WILL INCLUDE APPLYING FRESH WATER TO BE INCLUDED IN THE ITEM OF STATION GRADING. DUST CONTROL ON THE AGGREGATE BASE COURSE WILL BE ACCOMPLISHED BY APPLYING FRESH WATER (INCLUDED IN THE ITEM OF AGGREGATE BASE, 6 INCH) AS DIRECTED BY THE PROJECT ENGINEER.
- INSTALL RIPRAP, PLAIN OR RIPRAP, HEAVY AS DIRECTED BY THE ENGINEER IN THE FIELD. THE RIPRAP, PLAIN AND RIPRAP, HEAVY PAY ITEMS WILL INCLUDE A GEOTEXTILE UNDERLAYMENT.
- SILT FENCE WILL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE WILL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
- CONTRACTOR WILL PROVIDE DOZER TRACKING PERPENDICULAR TO THE SLOPE TO REDUCE WATER AND WIND EROSION. THIS WILL BE PERFORMED AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER IN THE FIELD, TO BE INCLUDED IN THE ITEM OF EMBANKMENT.
- HIGH VELOCITY MULCH BLANKETS WILL BE USED ON STEEP BANKS. PROVIDE MULCH BLANKET, HIGH VELOCITY CENTERED ON ALL DITCH BOTTOMS WITH A LONGITUDINAL GRADE OF 2.00% OR GREATER AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER IN THE FIELD. PAID AS SLOPE RESTORATION TYPE C.
- CHECK DAMS WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

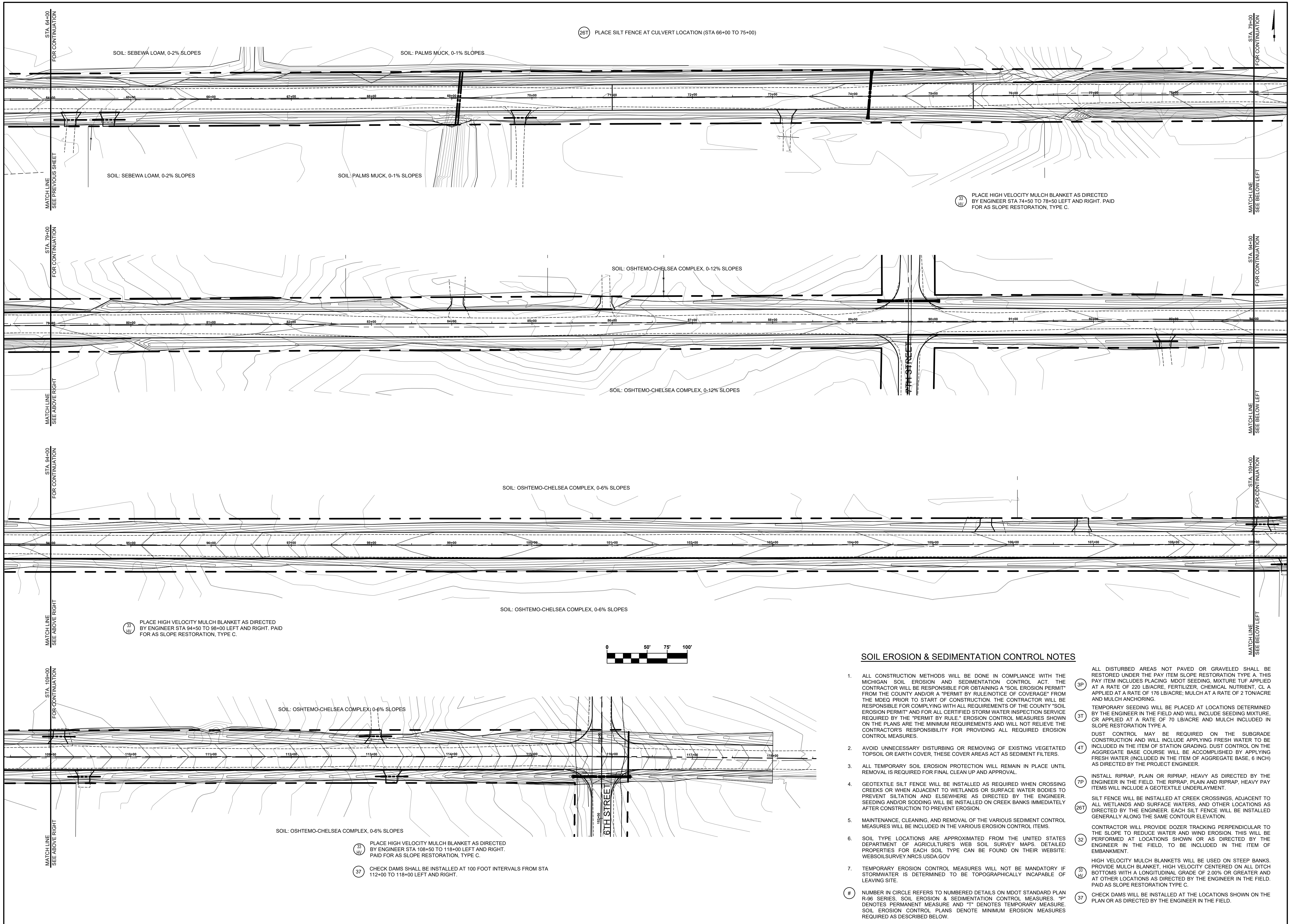
35
141 PLACE HIGH VELOCITY MULCH BLANKET AS DIRECTED BY ENGINEER STA 56+00 TO 65+00 LEFT AND RIGHT. PAID FOR AS SLOPE RESTORATION, TYPE C.

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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET
SOIL EROSION & SEDIMENTATION CONTROL PLAN P.O.B. TO 64+00

DRAWN BY: ACW
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1" = 50'



SOIL EROSION & SEDIMENTATION CONTROL NOTES

- ALL CONSTRUCTION METHODS WILL BE DONE IN COMPLIANCE WITH THE MICHIGAN SOIL EROSION AND SEDIMENTATION CONTROL ACT. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A "SOIL EROSION PERMIT" FROM THE COUNTY AND/OR A "PERMIT BY RULE/NOTICE OF COVERAGE" FROM THE MDEQ PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF THE COUNTY "SOIL EROSION PERMIT" AND FOR ALL CERTIFIED STORM WATER INSPECTION SERVICE REQUIRED BY THE "PERMIT BY RULE." EROSION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS AND WILL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL REQUIRED EROSION CONTROL MEASURES.
 - AVOID UNNECESSARY DISTURBING OR REMOVING OF EXISTING VEGETATED TOPSOIL OR EARTH COVER, THESE COVER AREAS ACT AS SEDIMENT FILTERS.
 - ALL TEMPORARY SOIL EROSION PROTECTION WILL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEAN UP AND APPROVAL.
 - GEOTEXTILE SILT FENCE WILL BE INSTALLED AS REQUIRED WHEN CROSSING CREEKS OR WHEN ADJACENT TO WETLANDS OR SURFACE WATER BODIES TO PREVENT SILTATION AND ELSEWHERE AS DIRECTED BY THE ENGINEER. SEEDING AND/OR SODDING WILL BE INSTALLED ON CREEK BANKS IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.
 - MAINTENANCE, CLEANING, AND REMOVAL OF THE VARIOUS SEDIMENT CONTROL MEASURES WILL BE INCLUDED IN THE VARIOUS EROSION CONTROL ITEMS.
 - SOIL TYPE LOCATIONS ARE APPROXIMATED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE'S WEB SOIL SURVEY MAPS. DETAILED PROPERTIES FOR EACH SOIL TYPE CAN BE FOUND ON THEIR WEBSITE: WEBSOILSURVEY.NRCS.USDA.GOV
 - TEMPORARY EROSION CONTROL MEASURES WILL NOT BE MANDATORY IF STORMWATER IS DETERMINED TO BE TOPOGRAPHICALLY INCAPABLE OF LEAVING SITE.
- ALL DISTURBED AREAS NOT PAVED OR GRAVELED SHALL BE RESTORED UNDER THE PAY ITEM SLOPE RESTORATION TYPE A. THIS PAY ITEM INCLUDES PLACING MDTOT SEEDING MIXTURE TUF APPLIED AT A RATE OF 220 LB/ACRE, FERTILIZER, CHEMICAL NUTRIENT, CL A APPLIED AT A RATE OF 176 LB/ACRE, MULCH AT A RATE OF 2 TON/ACRE AND MULCH ANCHORING.
- TEMPORARY SEEDING WILL BE PLACED AT LOCATIONS DETERMINED BY THE ENGINEER IN THE FIELD AND WILL INCLUDE SEEDING MIXTURE, OR APPLIED AT A RATE OF 70 LB/ACRE AND MULCH INCLUDED IN SLOPE RESTORATION TYPE A.
- DUST CONTROL MAY BE REQUIRED ON THE SUBGRADE CONSTRUCTION AND WILL INCLUDE APPLYING FRESH WATER TO BE INCLUDED IN THE ITEM OF STATION GRADING. DUST CONTROL ON THE AGGREGATE BASE COURSE WILL BE ACCOMPLISHED BY APPLYING FRESH WATER (INCLUDED IN THE ITEM OF AGGREGATE BASE, 6 INCH) AS DIRECTED BY THE PROJECT ENGINEER.
- INSTALL RIPRAP, PLAIN OR RIPRAP, HEAVY AS DIRECTED BY THE ENGINEER IN THE FIELD. THE RIPRAP, PLAIN AND RIPRAP, HEAVY PAY ITEMS WILL INCLUDE A GEOTEXTILE UNDERLAYMENT.
- SILT FENCE WILL BE INSTALLED AT CREEK CROSSINGS, ADJACENT TO ALL WETLANDS AND SURFACE WATERS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. EACH SILT FENCE WILL BE INSTALLED GENERALLY ALONG THE SAME CONTOUR ELEVATION.
- CONTRACTOR WILL PROVIDE DOZER TRACKING PERPENDICULAR TO THE SLOPE TO REDUCE WATER AND WIND EROSION. THIS WILL BE PERFORMED AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER IN THE FIELD, TO BE INCLUDED IN THE ITEM OF EMBANKMENT.
- HIGH VELOCITY MULCH BLANKETS WILL BE USED ON STEEP BANKS, PROVIDE MULCH BLANKET, HIGH VELOCITY CENTERED ON ALL DITCH BOTTOMS WITH A LONGITUDINAL GRADE OF 2.00% OR GREATER AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER IN THE FIELD. PAID AS SLOPE RESTORATION TYPE C.
- CHECK DAMS WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

**Board of County Road Commissioners
Of Allegan County**
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ALLEGAN, MICHIGAN 49010-9762
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TELEPHONE (269) 673-2184 FAX (269) 673-5922

REVISIONS	
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122ND AVENUE RECONSTRUCTION PROJECT
MARTIN TOWNSHIP - 10TH STREET TO 6TH STREET

SOIL EROSION & SEDIMENTATION CONTROL PLAN 64+00 TO P.O.E.

DRAWN BY: ACW
REVIEWED BY: JSE
DATE: JULY, 2021
SCALE: 1" = 50'