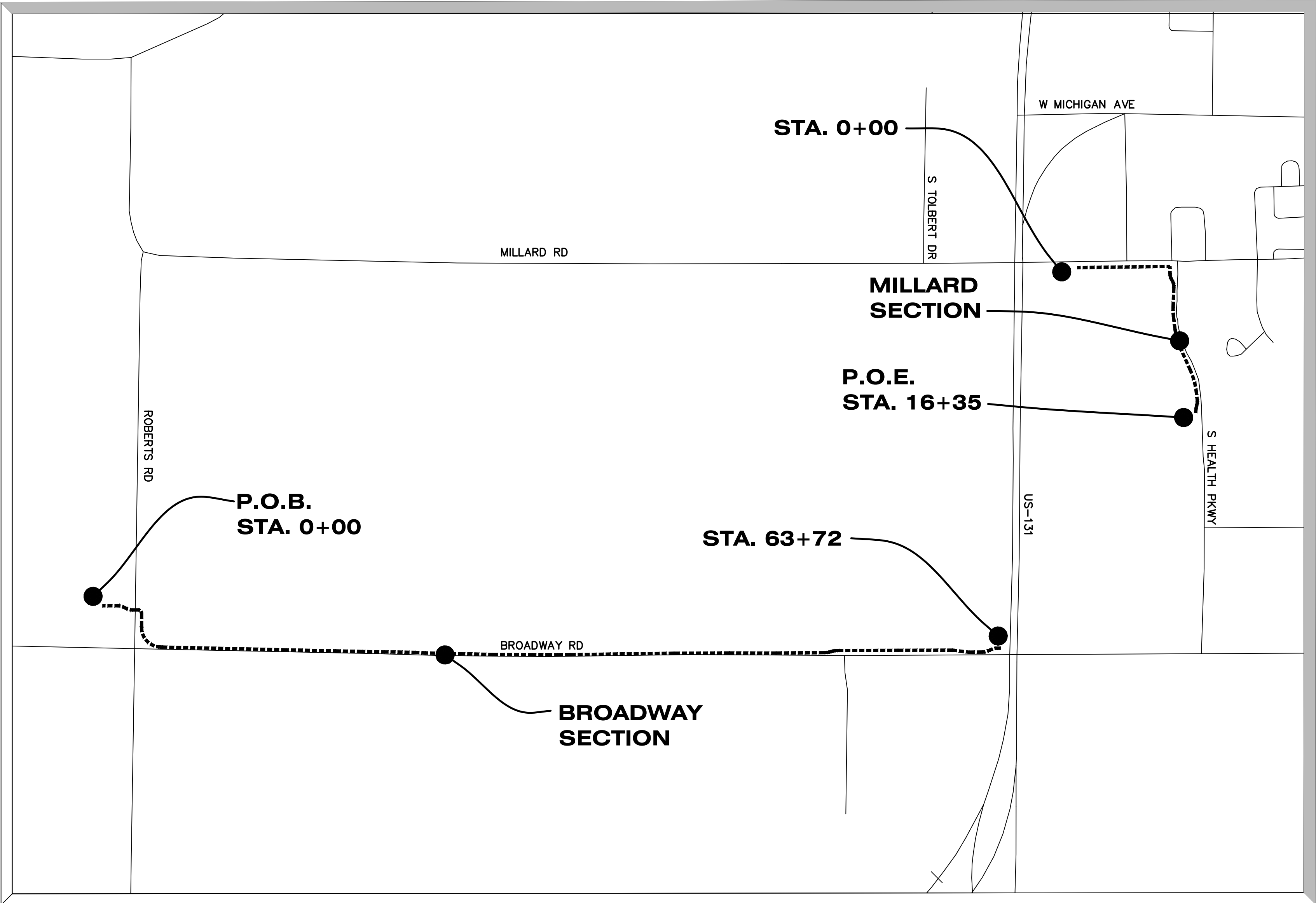


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City of Three Rivers
In Cooperation with Michigan Department of Transportation/FHWA
Meyer-Broadway Path

Control Section: TAUL78000 Job No: 132925

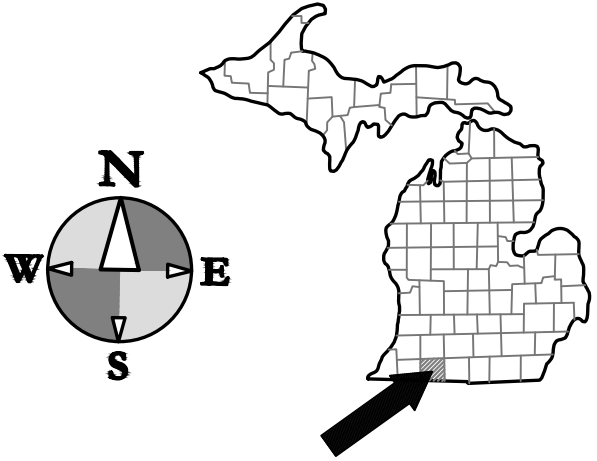


TRAFFIC INFORMATION

PATH DESIGN SPEED = 18 MPH
BROADWAY ROAD
SPEED LIMIT = 45 MPH
AADT = 5,108
ROBERTS ROAD
SPEED LIMIT = 55 MPH
MILLARD ROAD
SPEED LIMIT = 30 MPH
AADT = 3,322
SOUTH HEALTH PARKWAY
SPEED LIMIT = 25 MPH

SITE LOCATION MAP

SCALE: 1" = 500'



THE WORK COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, AS AMENDED BY SUPPLEMENTAL SPECIFICATIONS OR SPECIAL PROVISIONS.

THE WORK COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AS AMENDED.

IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, 2012.

VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.

DRAWING INDEX

SHT #	DESCRIPTION
1	TITLE SHEET
2	PROJECT NOTES
3	TYPICAL SECTIONS
4	DETAILS
5	BROADWAY REMOVALS - STA 0+00 TO STA 21+00
6	BROADWAY - STA 0+00 TO STA 10+50
7	BROADWAY - STA 10+50 TO STA 21+00
8	BROADWAY REMOVALS - STA 21+00 TO STA 42+00
9	BROADWAY - STA 21+00 TO STA 31+50
10	BROADWAY - STA 31+50 TO STA 42+00
11	BROADWAY REMOVALS - STA 42+00 TO STA 63+00
12	BROADWAY - STA 42+00 TO STA 52+50
13	BROADWAY - STA 52+50 TO STA 63+00
14	MILLARD REMOVALS - STA 0+00 TO STA 16+50
15	MILLARD - STA 0+00 TO STA 8+50
16	MILLARD - STA 8+50 TO STA 16+50

PROJECT DESCRIPTION

1.49 MILES OF 10 FOOT WIDE HMA
NON-MOTORIZED PATH INCLUDING
GRADING, STORM IMPROVEMENTS,
AND SLOPE RESTORATION.

CITY OF THREE RIVERS APPROVAL

BY: AMY ROTH, P.E. - DPS DIRECTOR

DATE



City of Three Rivers
333 W. Michigan Ave.
Three Rivers, MI 49093

PLANS PREPARED BY



hurley & stewart, llc
2800 south 11th street
kalamazoo, michigan 49009
269.552.4960 fax 552.4961
www.hurleystewart.com

UNDER SUPERVISION OF: JEFFREY W. PAULSON, P.E.

MEYER-BROADWAY PATH, ISSUED FOR FINAL PLANS, 6/25/20

MISCELLANEOUS PROJECT QUANTITIES

THE FOLLOWING ITEMS OF WORK SHALL BE COMPLETED AS THEY APPLY THROUGHOUT THE PROJECT. THESE ITEMS ARE NOT DETAILED ON THE PLAN SHEETS.

QUANTITY	UNITS	DESCRIPTION
1	LS	Mobilization, Max. \$90,000
155	Ea	Channelizing Device, 42 inch, Furn
155	Ea	Channelizing Device, 42 inch, Oper
6	Ea	Lighted Arrow, Type B, Furn
6	Ea	Lighted Arrow, Type B, Oper
1	LS	Minor Traf Devices
1190	Sft	Sign, Type B, Temp, Prismatic, Furn
1190	Sft	Sign, Type B, Temp, Prismatic, Oper
1	LS	Traf Regulator Control

SPECIAL DETAIL SW RAMP

STANDARD PLAN NUMBER	TITLE
R-28-J	SIDEWALK RAMP AND DETECTABLE WARNING

MDOT STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MDOT STANDARD PLAN GIVEN BELOW UNLESS OTHERWISE INDICATED.

STANDARD PLAN NUMBER	TITLE
R-1-G	DRAINAGE STRUCTURES
R-8-D	COVER C
R-29-I	DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS
R-30-G	CONCRETE CURB AND CONCRETE CURB AND GUTTER
R-83-C	UTILITY TRENCHES
R-86-F	PRECAST CONCRETE END SECTION FOR PIPE CULVERT
R-96-E	SOIL EROSION & SEDIMENTATION CONTROL MEASURES
R-100-H	SEEDING AND TREE PLANTING

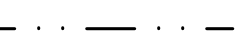
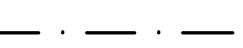
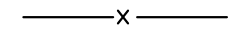
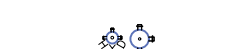
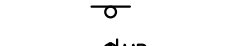
MDOT TRAFFIC AND SAFETY STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MDOT STANDARD PLAN GIVEN BELOW UNLESS OTHERWISE INDICATED.

STANDARD PLAN NUMBER	TITLE
WZD-100-A *	GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS
WZD-125-E *	TEMPORARY TRAFFIC CONTROL DEVICES

* SPECIAL DETAIL

LEGEND

	PROPOSED CONTOUR HIGHLIGHTED		PERMANENT EASEMENT
	PROPOSED CONTOUR NORMAL		CONSENT TO GRADE
	PROPOSED SANITARY SEWER		EXISTING R.O.W.
	PROPOSED STORM SEWER		EXISTING CONTOUR HIGHLIGHTED
	PROPOSED CATV		EXISTING CONTOUR NORMAL
	PROP ELEC (OVERHEAD)		EXISTING SANITARY SEWER
	PROP ELEC (UNDERGROUND)		EXISTING STORM SEWER
	PROPOSED FIBEROPTIC CABLE		EXISTING CATV
	PROPOSED GAS		EXIST ELEC (OVERHEAD)
	PROPOSED TELEPHONE		EXIST ELEC (UNDERGROUND)
	PROPOSED WATER MAIN		EXISTING FIBEROPTIC CABLE
	PROPOSED TREELINE		EXISTING GAS
	PROPOSED FENCE		EXISTING TELEPHONE
	CURB CATCH BASIN		EXISTING WATER MAIN
	SQUARE CATCH BASIN		EXISTING TREELINE
	ROUND CATCH BASIN		EXISTING FENCE
	MANHOLE STORM		GAS METER
	MANHOLE SANITARY		TELEPHONE MANHOLE
	SANITARY CLEANOUT		TELEPHONE PEDESTAL
	FIRE HYDRANT		TELEPHONE POLE
	WATER VALVE		PROPOSED SPOT GRADE
	WATER VALVE IN VAULT		EXISTING SPOT GRADE
	WATER METER		BENCH MARK
	WATER REDUCER		POST/BOLLARD
	LIGHT POLE		SIGN
	POWER POLE		MAILBOX
	GUY WIRE		SOIL BORING
	ELECTRIC MANHOLE		MONITOR WELL
	ELECTRIC METER		

NOTE: ALL SYMBOLS IN THIS LEGEND ARE SHOWN AS EXISTING. PROPOSED SYMBOLS WILL USE THE CORRESPONDING SYMBOL WITH A THICKER LINE.

BROADWAY BENCHMARKS

BM # 1 ELEVATION = 830.68
CHISELED SQUARE ON SOUTH OF LIGHT POLE BASE
BM # 2 ELEVATION = 826.42
CHISELED "T" ON SOUTHEAST CORNER OF CONC. SIGN BASI
BM # 3 ELEVATION = 818.64
CHISELED "+" ON SOUTH BOLT OF SIGNAL BRACE POLE

EXISTING STRUCTURE DATA

EX SAN MANHOLE #1 RIM = 872.77

EX SAN MANHOLE #14 RIM = 831.25
INV. W = 822.95
INV. S = 820.97
INV. E = 820.95

EX SAN MANHOLE #2 RIM = 868.84
INV. W = 861.04
INV. W = 853.07
INV. E = 852.70

EX SAN MANHOLE #15 RIM = 826.20
INV. W = 818.02
INV. E = 816.46

EX SAN MANHOLE #3 RIM = 863.03
INV. W = 851.48
INV. W = 848.32
INV. E = 848.19

EX SAN MANHOLE #16 RIM = 823.80

EX SAN MANHOLE #4 RIM = 858.23
INV. W = 843.96
INV. E = 843.79

EX SAN MANHOLE #17 RIM = 822.55
INV. S = 814.85
INV. E-W = 813.55

EX SAN MANHOLE #5 RIM = 851.08
INV. W = 842.93
INV. E = 842.93

EX SAN MANHOLE #18 RIM = 820.81

EX SAN MANHOLE #6 RIM = 852.60
INV. W = 842.12
INV. E = 842.11

EX SAN MANHOLE #19 RIM = 818.44
INV. W = 810.44
INV. NE = 809.09

EX SAN MANHOLE #7 RIM = 849.61
INV. W = 841.23
INV. E = 841.23

EX STM LB #20 RIM = 835.29
BOTTOM = 832.59

EX SAN MANHOLE #8 RIM = 846.52
INV. W = 837.02
INV. E = 837.02

EX STM CB #21 RIM = 829.61

EX SAN MANHOLE #9 RIM = 842.61
INV. W = 834.26
INV. E = 834.19

EX STM CB #22 RIM = 826.69

EX SAN MANHOLE #10 RIM = 838.30
INV. W = 832.00
INV. E = 831.88

EX STM CB #23 RIM = 823.02

EX SAN MANHOLE #11 RIM = 838.03
INV. W = 831.05
INV. E = 831.01

EX STM CB #24 RIM = 824.34

EX SAN MANHOLE #12 RIM = 835.40
INV. W = 827.78
INV. E = 827.77

EX STM CB #25 RIM = 823.03

EX SAN MANHOLE #13 RIM = 834.36
INV. W = 825.58
INV. E-W = 825.54

EX STM CB #26 RIM = 822.96

MILLARD BENCHMARKS

BM # 1 ELEVATION = 820.64
ARROW ON FIRE HYDRANT
BM # 2 ELEVATION = 819.92
ARROW ON FIRE HYDRANT
BM # 3 ELEVATION = 818.70
ARROW ON FIRE HYDRANT

EXISTING STRUCTURE DATA

EX STM CB #1 RIM = 817.44

EX STM CB #9 RIM = 816.75

EX STM MANHOLE #2 RIM = 817.77

EX STM CB #10 RIM = 815.66

EX STM CB #3 RIM = 817.12

EX STM CB #11 RIM = 815.83

EX STM MANHOLE #4 RIM = 817.74

EX STM CB #12 RIM = 815.59

EX STM MANHOLE #5 RIM = 816.93

EX STM CB #13 RIM = 815.95

EX STM MANHOLE #6 RIM = 816.51

EX STM CB #14 RIM = 816.00

EX STM CB #7 RIM = 815.96

EX STM MANHOLE #15 RIM = 816.50

EX STM CB #8 RIM = 815.91

PROJECT NOTES

- REVIEW CLEARING LIMITS WITH OWNER PRIOR TO WORK. REMOVE TREES ONLY WHERE INDICATED.
- ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK.
- VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO ORDERING STRUCTURES AND CONSTRUCTION.
- COORDINATE ALL TRAFFIC CONTROL WITH CITY OF THREE RIVERS AND ST. JOSEPH COUNTY ROAD COMMISSION. SEE THE MAINTAINING TRAFFIC PLAN.
- CONTRACTOR MAY TEMPORARILY STOCKPILE MATERIAL AT THE CITY OF THREE RIVERS PUBLIC SERVICES YARD AT 1015 S. LINCOLN AVE. COORDINATE WITH THE CITY.
- ALL MAILBOXES ALONG BROADWAY ROAD TO BE RELOCATED.

REMOVAL NOTES

- ALL REMOVALS SHALL BE TAKEN OFF-SITE AND DISPOSED OF. NO STOCKPILE OR BURNING OF DEBRIS IS ALLOWED.
- COMPLY WITH ALL ASPECTS OF THE SOIL EROSION CONTROL PERMIT AS ISSUED BY ST JOSEPH COUNTY. ALL TEMPORARY CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION.
- ALL REMOVALS SHALL BE TO THE LIMITS INDICATED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. UNAUTHORIZED REMOVALS AND SUBSEQUENT REPLACEMENT SHALL BE AT THE CONTRACTOR'S EXPENSE.
- CURB CUTS AND REMOVALS WILL BE DONE TO THE NEAREST EXISTING JOINT.
- REMOVE ALL TREES TO THE CLEARING LIMITS AS SHOWN. REMOVE ALL EXISTING TREES, STUMPS AND BRUSH FROM THE SITE AS NECESSARY TO CONSTRUCT THE IMPROVEMENTS.
- FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL 1-800-482-7171 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 OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

GRADING NOTES

- MATCH EXISTING GRADES AROUND PERIMETER WITH SLOPES AS SHOWN. MATCH AT 1 ON 4 IF NOT LABELED.
- ALL NEW PAVEMENTS AND NEW LAWN AREAS ARE INTENDED TO DRAIN FREELY WITH NO PONDING. IF THIS CANNOT BE ACHIEVED USING PROPOSED GRADES AS INDICATED, NOTIFY ENGINEERS IMMEDIATELY FOR CLARIFICATION.
- ALL SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO MASS GRADING.
- ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK.
- REMOVE AND REPLACE WITH CONTROLLED FILL ANY AREAS THAT HAVE BEEN SOFTENED BY RAINS, FREEZING, CONSTRUCTION EQUIPMENT, ETC.
- ALL REQUIRED FILL FOR THIS PROJECT SHALL BE SELECTED EXCAVATED MATERIAL FROM THE SITE APPROVED BY THE ENGINEER OR CLASS II GRANULAR MATERIAL FROM BORROW AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL GRANULAR FILL UNDER THE INFLUENCE OF THE ROADWAY AND PROCESSED ROAD GRAVEL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- ALL COMPACTION SHALL BE ACCOMPLISHED BY PLACING THE FILL IN 12" LOOSE LIFTS AND MECHANICALLY COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. FIELD DENSITY TESTS SHOULD BE PERFORMED ON EACH LIFT AS NECESSARY TO ENSURE THAT ADEQUATE MOISTURE CONDITIONS AND COMPACTION ARE BEING ACHIEVED.
- SITE CONTRACTOR SHALL REMOVE AND STOCKPILE ALL TOPSOIL AND BLACK ORGANIC SOILS ON-SITE TO BE USED IN THE REGRADING OF LANDSCAPE AREAS. THIS MATERIAL IS NOT TO BE USED FOR FILL OR PAVEMENT SUBBASE. REMOVAL OF ANY EXCESS SOIL OFF-SITE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

UTILITY NOTES

- ANY UTILITIES REQUIRING DEWATERING SHALL BE INCLUDED IN THE INSTALLATION COSTS. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING NECESSARY TO CONSTRUCT UTILITIES IN THE DRY.
- REMOVE ANY ACCUMULATED SEDIMENT FROM ALL STRUCTURES AND REMOVE SILT SACKS ONCE SITE IS ESTABLISHED.

SESC NOTES

- ALL WORK WILL COMPLY WITH THE PROVISIONS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ACT (PA 347 OF 1972 AS AMENDED) ADMINISTERED BY ST JOSEPH COUNTY.
- SITES WITH DISTURBANCE LARGER THAN 5 ACRES NEED TO FOLLOW THE SOIL EROSION AND SEDIMENTATION CONTROL GUIDEBOOK BY THE STATE OF MICHIGAN DEPARTMENT OF MANAGEMENT AND BUDGET OFFICE OF FACILITIES, DESIGN AND CONSTRUCTION DIVISION.
- AVOID UNNECESSARY DISTURBING OR REMOVING EXISTING VEGETATED TOPSOIL OR EARTH COVER. THESE AREAS ACT AS SEDIMENT FILTERS.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE SOIL EROSION CONTROL PERMIT FROM ST JOSEPH COUNTY.
- ALL TEMPORARY SOIL EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL SITE IS ESTABLISHED.
- NO SITE WORK SHALL BEGIN UNTIL THE SILT FENCE IS INSTALLED.
- ALL SOIL PILES SHALL BE SURROUNDED BY SILT FENCE IF ALLOWED TO REMAIN IN PLACE FOR MORE THAN 7 DAYS. TOPSOIL PILES SHALL BE SEEDED IF ALLOWED TO REMAIN IN PLACE FOR MORE THAN 20 DAYS. SPOIL PILES SHALL NOT BE PLACED WITHIN 50' FROM ANY TEMPORARY OR PERMANENT WATERCOURSE.
- THE CONTRACTOR SHALL SUPPLY THE WEEKLY RECOMMENDATIONS OF THE CERTIFIED STORM WATER OPERATOR.
- COORDINATE TOPSOIL STOCKPILE WITH OWNER.
- COORDINATE THE CLEARING LIMITS WITH THE OWNER PRIOR TO COMMENCING WORK.
- PROVIDE SILT SACKS IN EACH CATCH BASIN UNTIL SITE IS STABILIZED.
- ALL SOIL EROSION MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING WORK.
- PLACE SILT FENCES ALONG THE TOE OF TOPSOIL STOCKPILES AND OTHER FILL AREAS. SEED TOPSOIL STOCKPILE AND MAINTAIN SILT FENCES UNTIL SITE IS STABILIZED.
- MAINTAIN A VEGETATIVE BUFFER WHEREVER POSSIBLE.
- CLEAN ADJACENT ROADWAYS WHEN NECESSARY.
- WATER SITE WHEN NECESSARY TO PREVENT AIR BORNE SEDIMENT TRANSFER.
- CONTRACTOR TO APPLY TURF URBAN FREEWAY (TUF) SEEDING MIXTURE AT 220 LBS/ACRE.

PROJECT NOTES
MEYER-BROADWAY PATH
CAPITAL GROWTH - BUCHALTER

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Project:
Client:

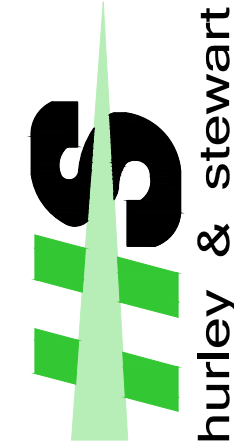
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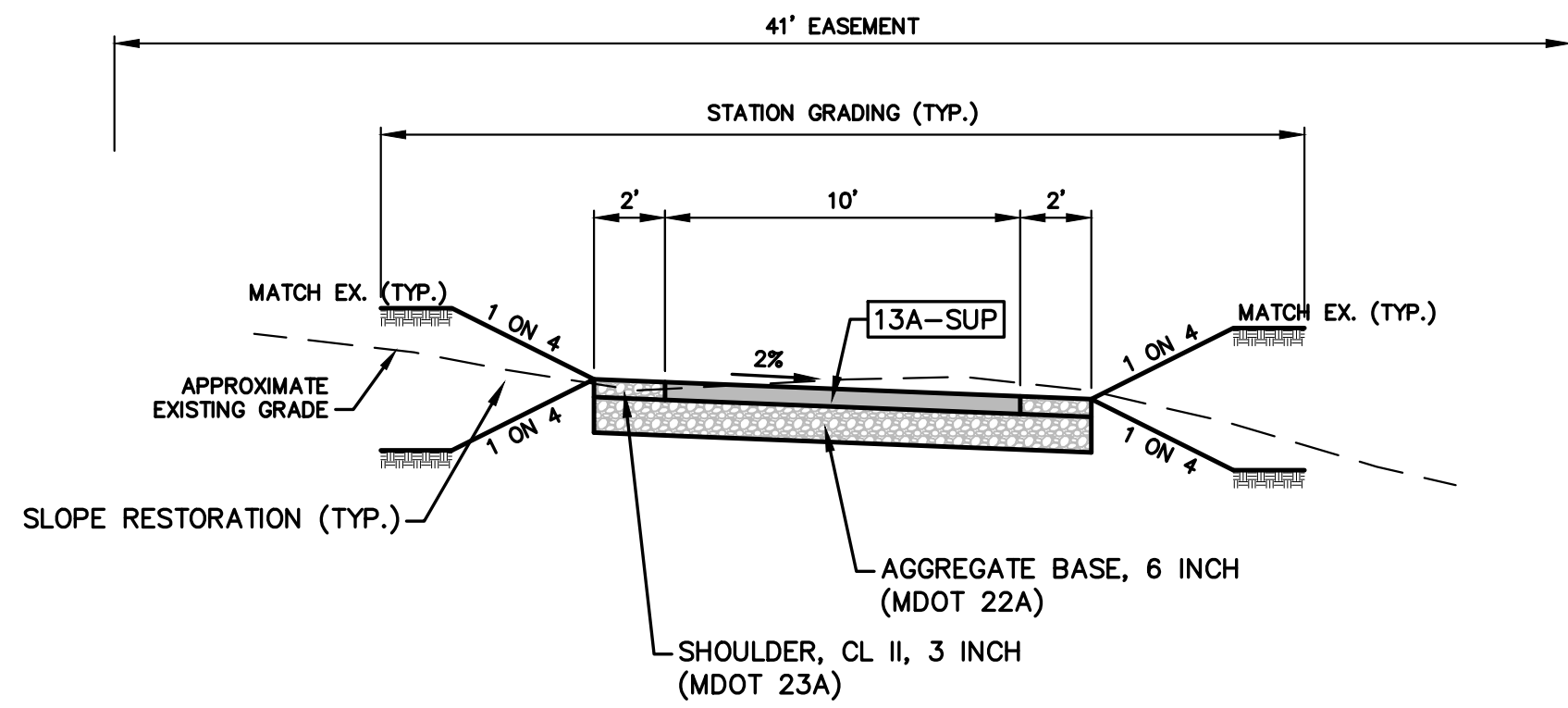
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3	FINAL PLANS				5/12/20
4	PERMITS				6/8/20
5	FINAL PLANS				6/25/20

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Kalamazoo, michigan 49009
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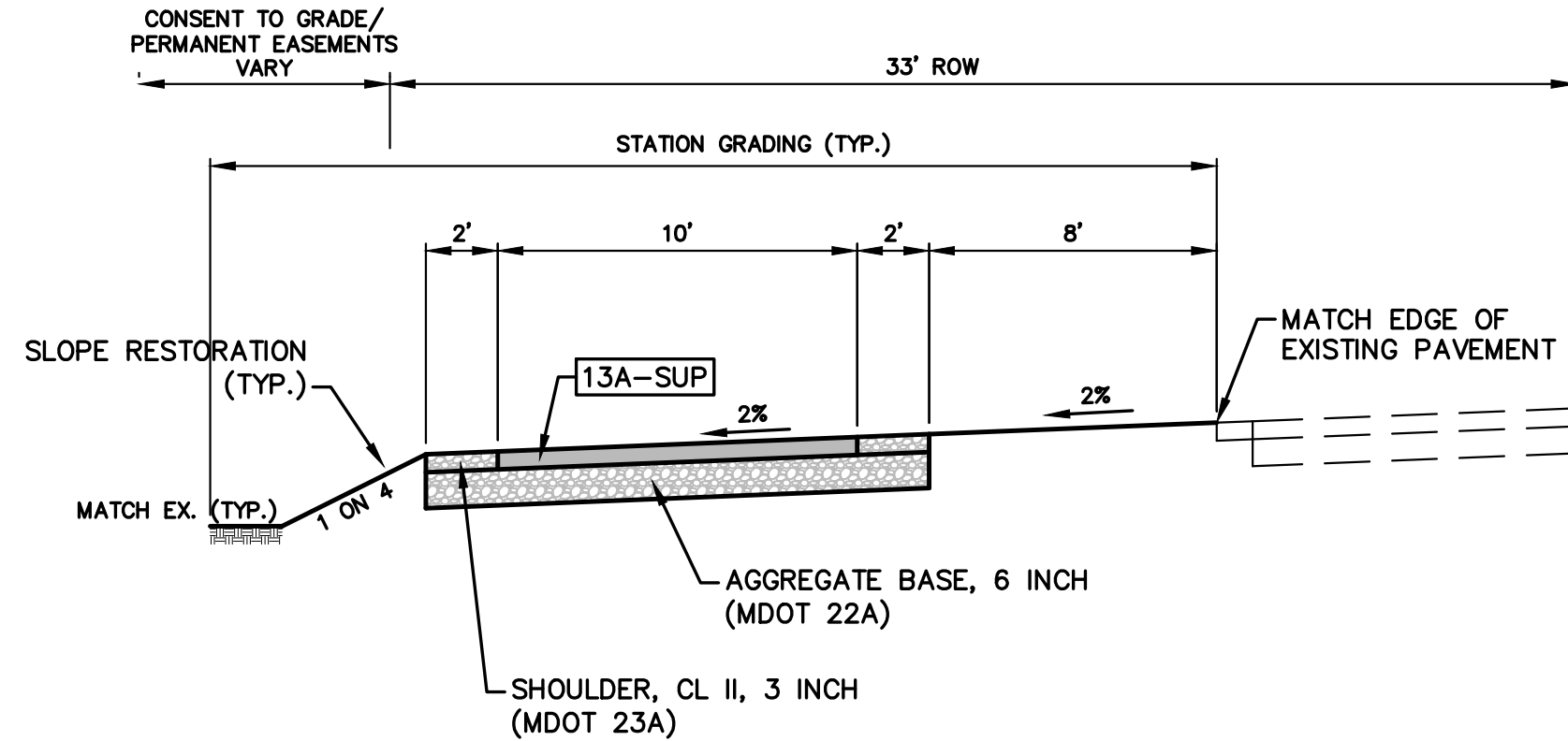


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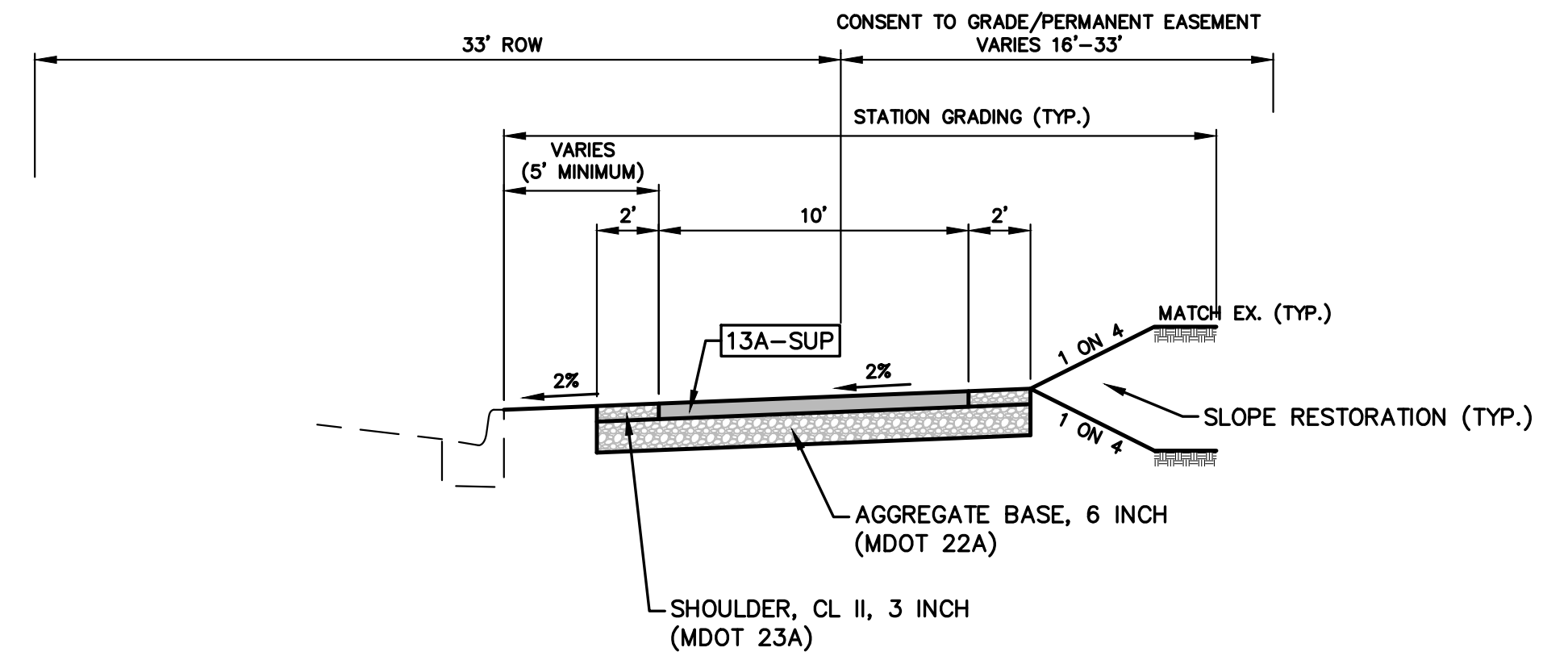
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TO APPLY:
STA. 0+00 TO STA. 5+00
STA. 51+93 TO STA. 53+33
STA. 53+48 TO STA. 53+93
STA. 54+81 TO STA. 55+27
STA. 55+83 TO STA. 57+53
STA. 57+88 TO STA. 58+24
STA. 58+38 TO STA. 59+00
STA. 59+61 TO STA. 62+14



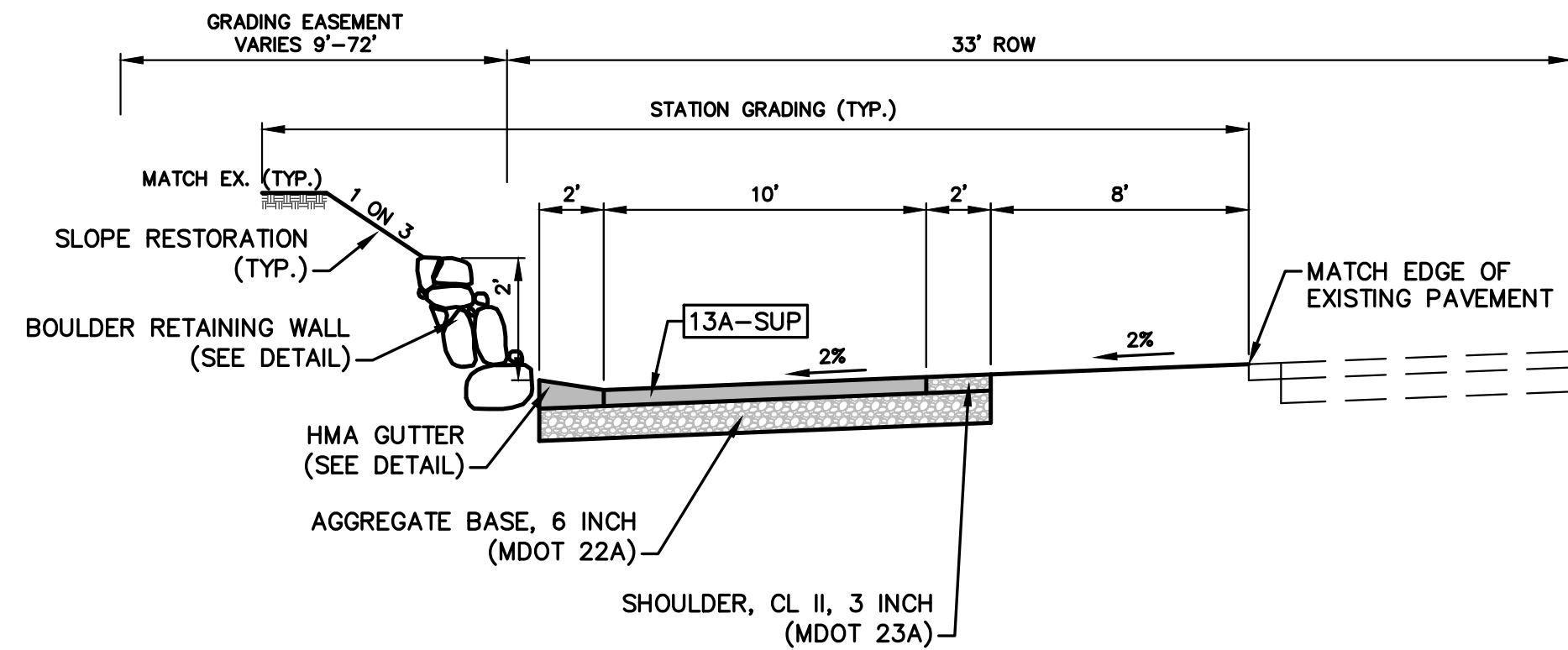
TYPICAL PATH SECTION (BROADWAY)

TO APPLY:
STA. 7+32 TO STA. 8+75
STA. 10+69 TO STA. 12+30
STA. 14+08 TO STA. 20+08
STA. 22+85 TO STA. 26+63
STA. 31+79 TO STA. 39+17
STA. 42+53 TO STA. 51+37



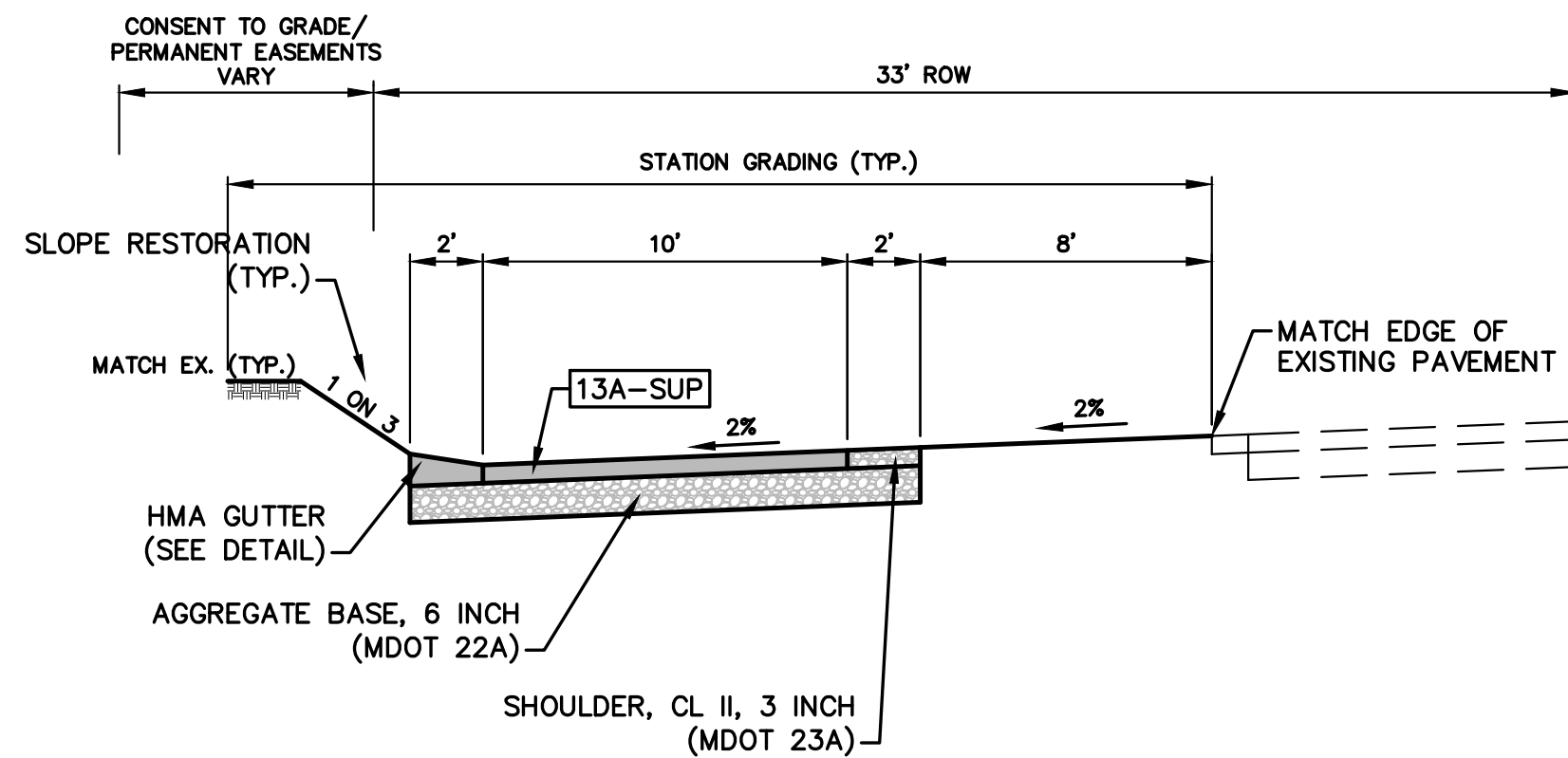
**TYPICAL PATH SECTION (MILLARD /
SOUTH HEALTH PARKWAY)**

TO APPLY:
STA. 0+00 TO STA. 14+10
STA. 14+32 TO STA. 16+35



TYPICAL PATH SECTION (BROADWAY)

TO APPLY:
STA. 5+84 TO STA. 7+04
STA. 8+84 TO STA. 10+40
STA. 12+85 TO STA. 14+08



TYPICAL PATH SECTION (BROADWAY)

TO APPLY:
STA. 5+20 TO STA. 5+80
STA. 7+09 TO STA. 7+32
STA. 10+40 TO STA. 10+69
STA. 12+30 TO STA. 12+85
STA. 20+08 TO STA. 22+85
STA. 26+63 TO STA. 31+79
STA. 39+17 TO STA. 42+52

HMA APPLICATION ESTIMATE

IDENT NO.	ITEM	RATE PER SYD	PERFORMANCE GRADE	REMARKS	AWI
13A-SUP	SHARED USE PATH, HMA	330 LB	PG 64-28	ONE COURSE	260
13A-APP	HMA, APPROACH	330 LB	PG 64-28	ONE COURSE	260
	* BOND COAT	0.05-0.15 GAL		FULL COVERAGE	

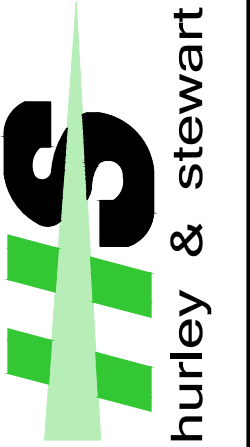
* FOR INFORMATION ONLY

**TYPICAL SECTIONS
MEYER-BROADWAY PATH
CITY OF THREE RIVERS**

Sheet Title:
Project:
Client:

6/25/20
Sheet

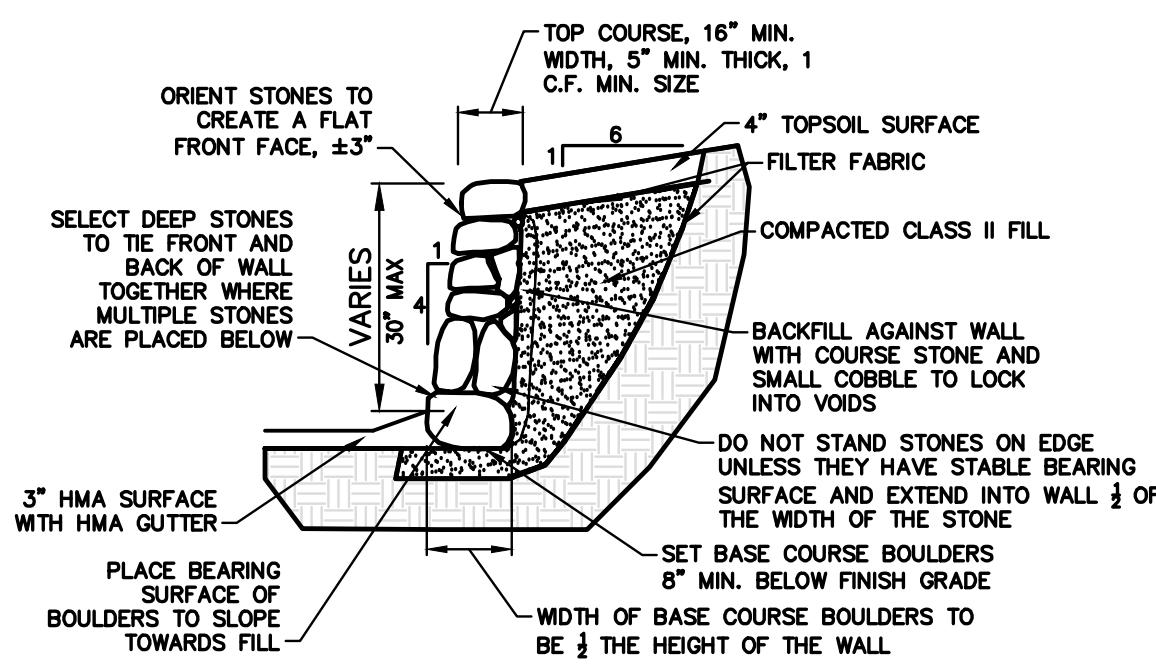
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hurley & stewart, llc
2800 south 11th street
kalamazoo, michigan 49009
269.552.4960 fax 269.552.4961
www.hurleystewart.com

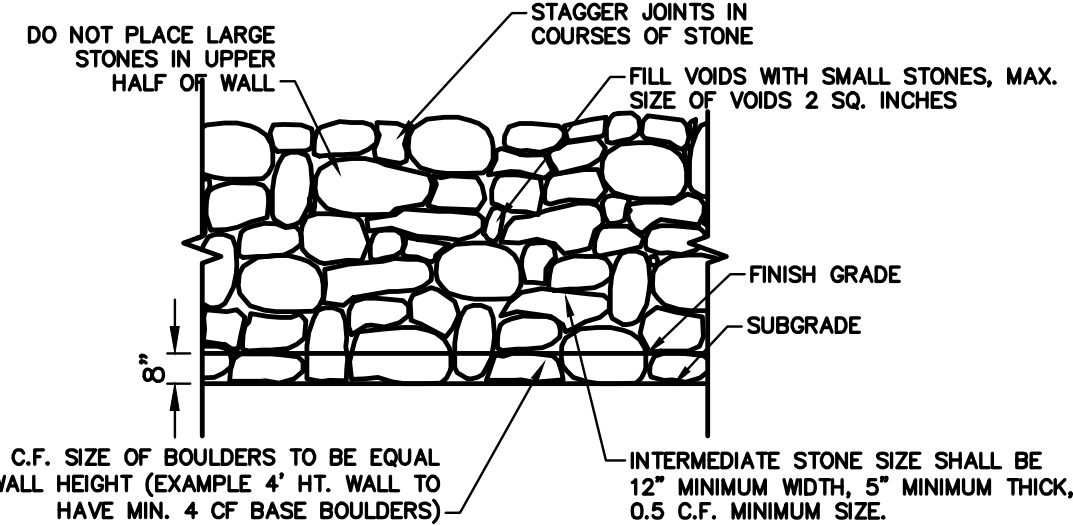
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3	FINAL PLANS	5/12/20	
4	PERMITS	6/8/20	
5	FINAL PLANS	6/25/20	
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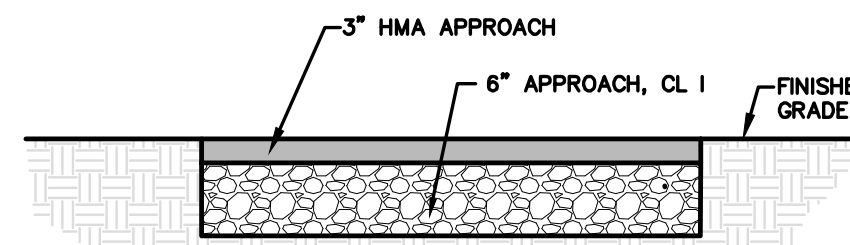


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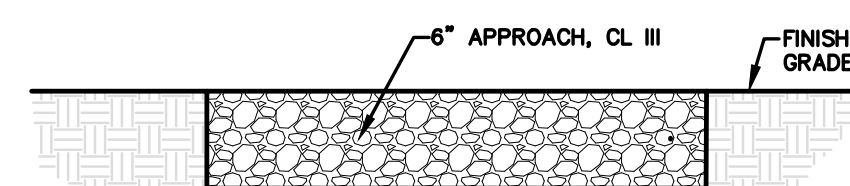
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NOT TO SCALE



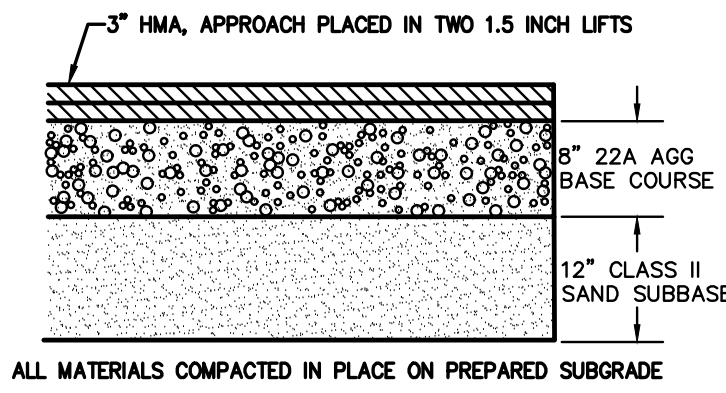
SCHEMATIC ELEVATION



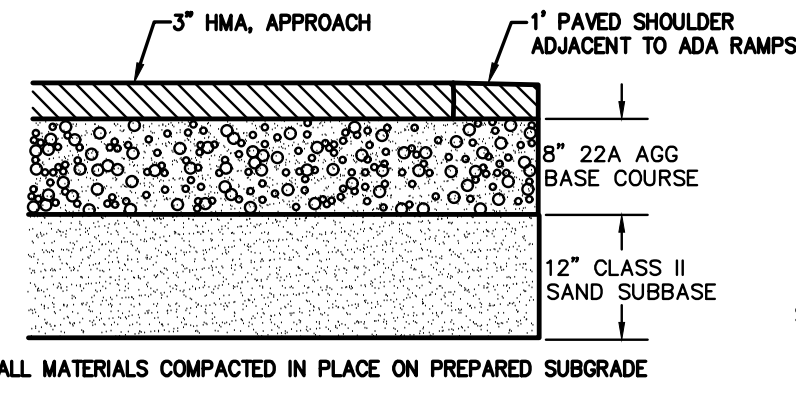
HMA DRIVE DETAIL
NOT TO SCALE



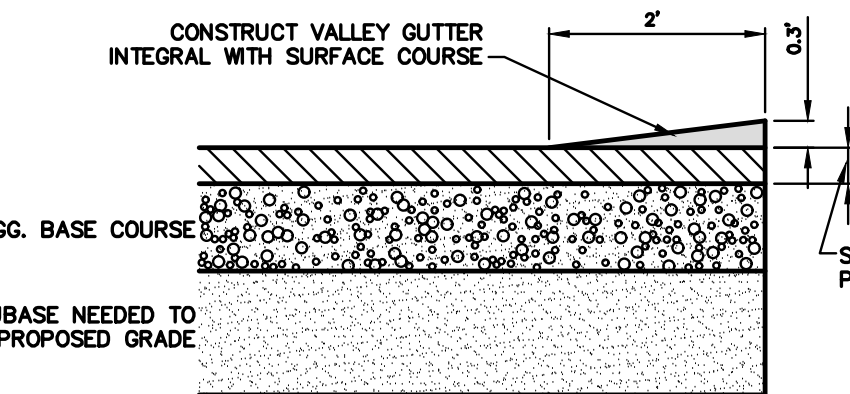
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NOT TO SCALE



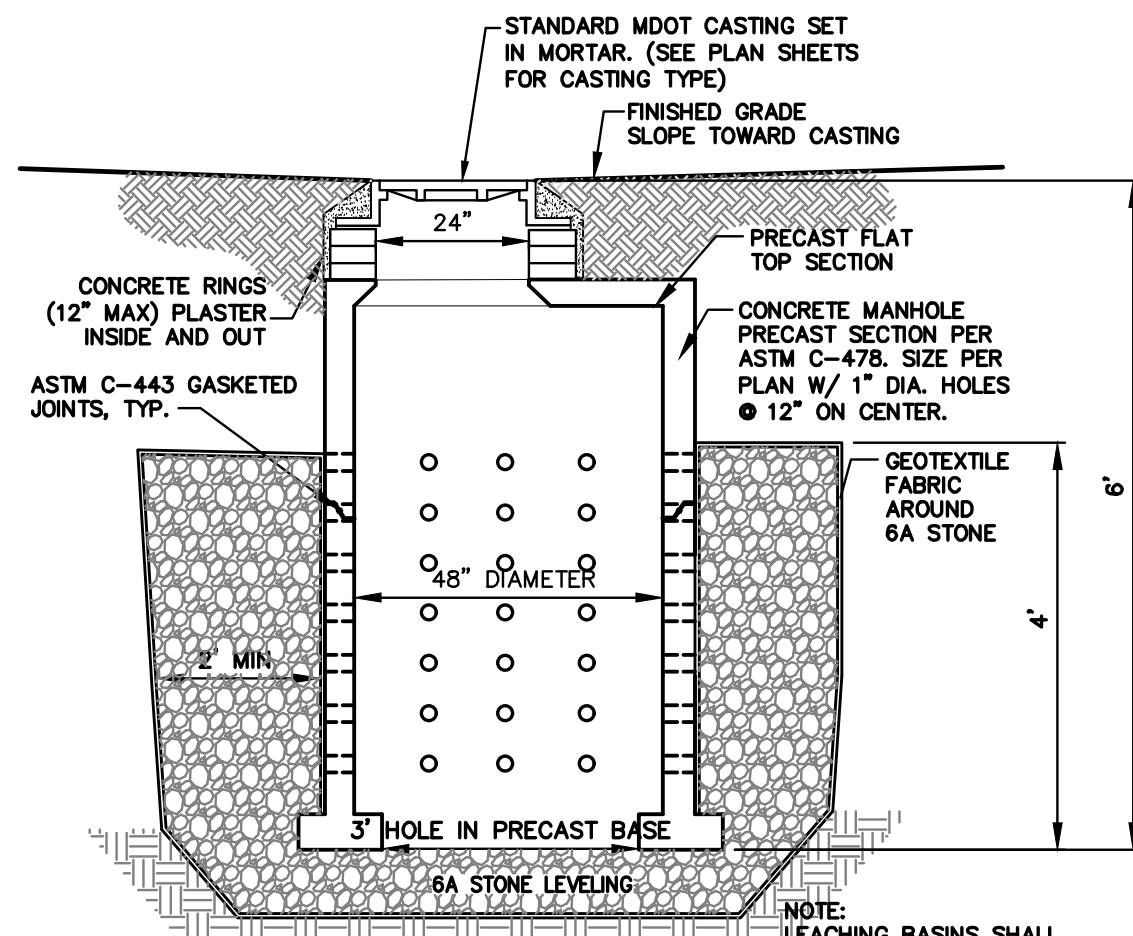
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PARKING LOT SECTION
NOT TO SCALE



ROBERTS ROAD SECTION
NOT TO SCALE



HMA GUTTER
NOT TO SCALE



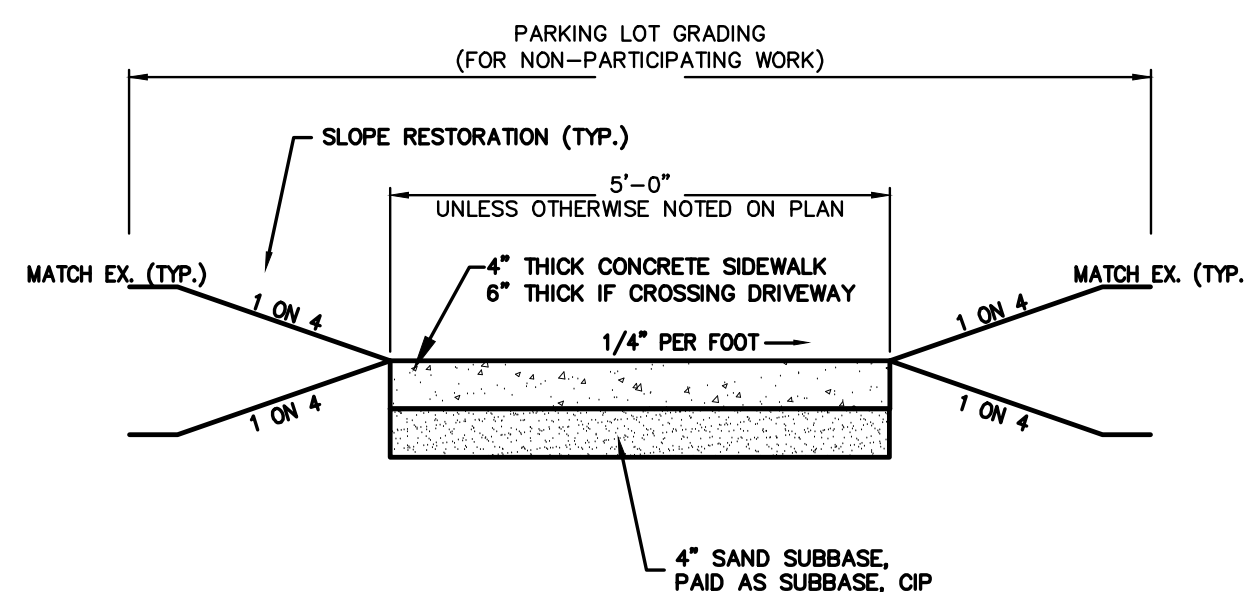
LEACHING BASIN DETAIL
NO SCALE

SOIL EROSION AND
SEDIMENTATION CONTROL MEASURES

KEY	BEST MANAGEMENT PRACTICES	SYMBOL	WHERE USED
E8	PERMANENT SEEDING		Stabilization method utilized on sites where earth change has been completed (final grading attained).
E9	MULCH BLANKETS		On exposed slopes, newly seeded areas, new ditch bottoms, or areas subject to erosion.
E12	RIPRAP		Use along shorelines, waterways, or where concentrated flows occur. Slows velocity, reduces sediment load, and reduces erosion.
S51	SILT FENCE		Use adjacent to critical areas, to prevent sediment laden sheet flow from entering these areas.
S58	INLET PROTECTION FABRIC DROP		Use at stormwater inlets, especially at construction sites.

EROSION CONTROLS

SEDIMENT CONTROLS



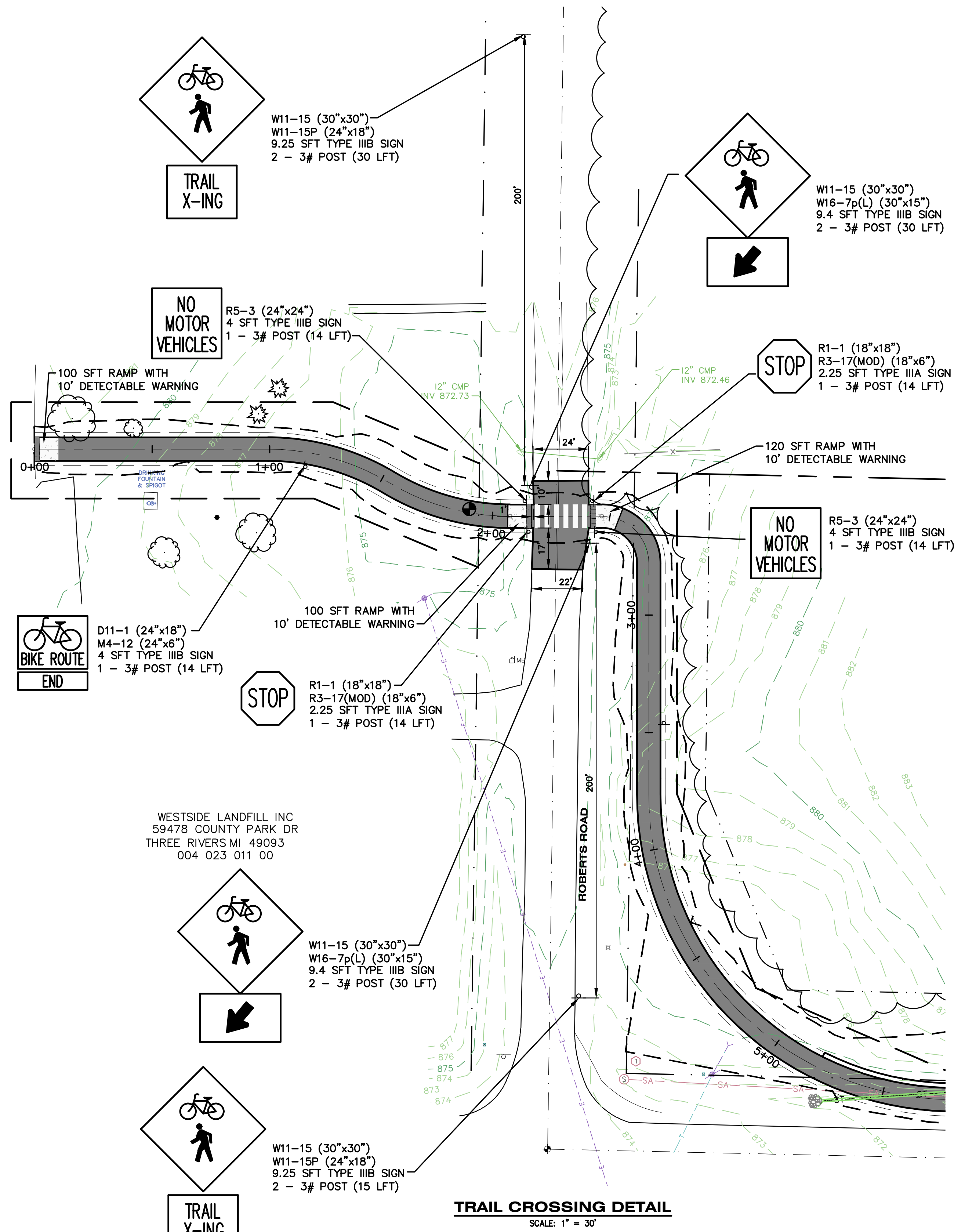
SIDEWALK DETAIL
NOT TO SCALE

SESC Construction Sequence

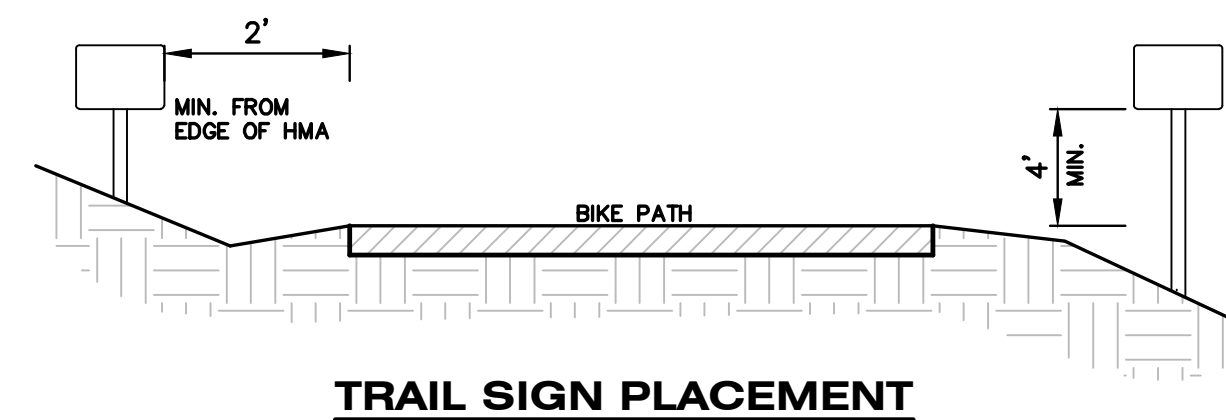
1	Install temporary SESC Measures (silt fence, fabric drops)
2	Strip and stockpile top soil
3	Rough grade site
4	Install catch basins and storm piping
5	Install aggregate base for trail
6	Concrete pouring for curb and sidewalk, installation of retaining walls
7	Asphalt paving
8	Final site grading
9	Installation of permanent SESC measures (rip rap, mulch blanket)
10	Site restoration/seeding/landscaping

SESC MAINTENANCE SCHEDULE

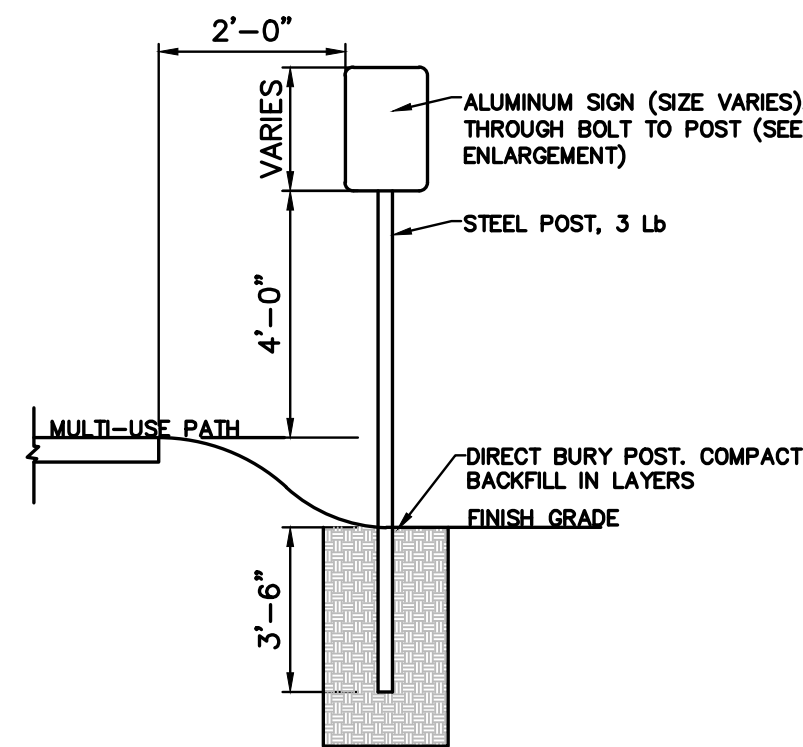
Maintenance Item	Frequency	Notes/Comments
Cleaning rip-rap	As Needed	Clean all accumulated sediment
Cleaning catch basins and piping	As-Needed	Clean all accumulated sediment
Mowing of grass around trail	As-Needed	Maintain 6" grass length or less
Repairing erosion areas	As-Needed	Repair any erosion areas within ROW or permanent easement areas
Remove sediment from forebay	As-Needed	Remove sediment and debris that have accumulated



TRAIL CROSSING DETAIL
SCALE: 1" = 30'



TRAIL SIGN PLACEMENT



DETAILS
MEYER-BROADWAY PATH
CITY OF THREE RIVERS

Sheet Title:
Project:
Client:

6/25/20
Sheet

4

Job No. 17-011D P.M.T.S. Dft: JWP QA/QC: 6/25/20
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3 FINAL PLANS 5/12/20
4 PERMITS 6/8/20
5 FINAL PLANS 6/25/20
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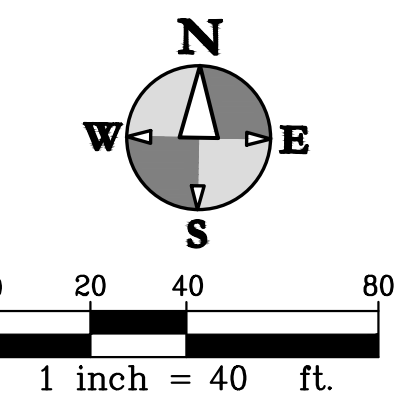
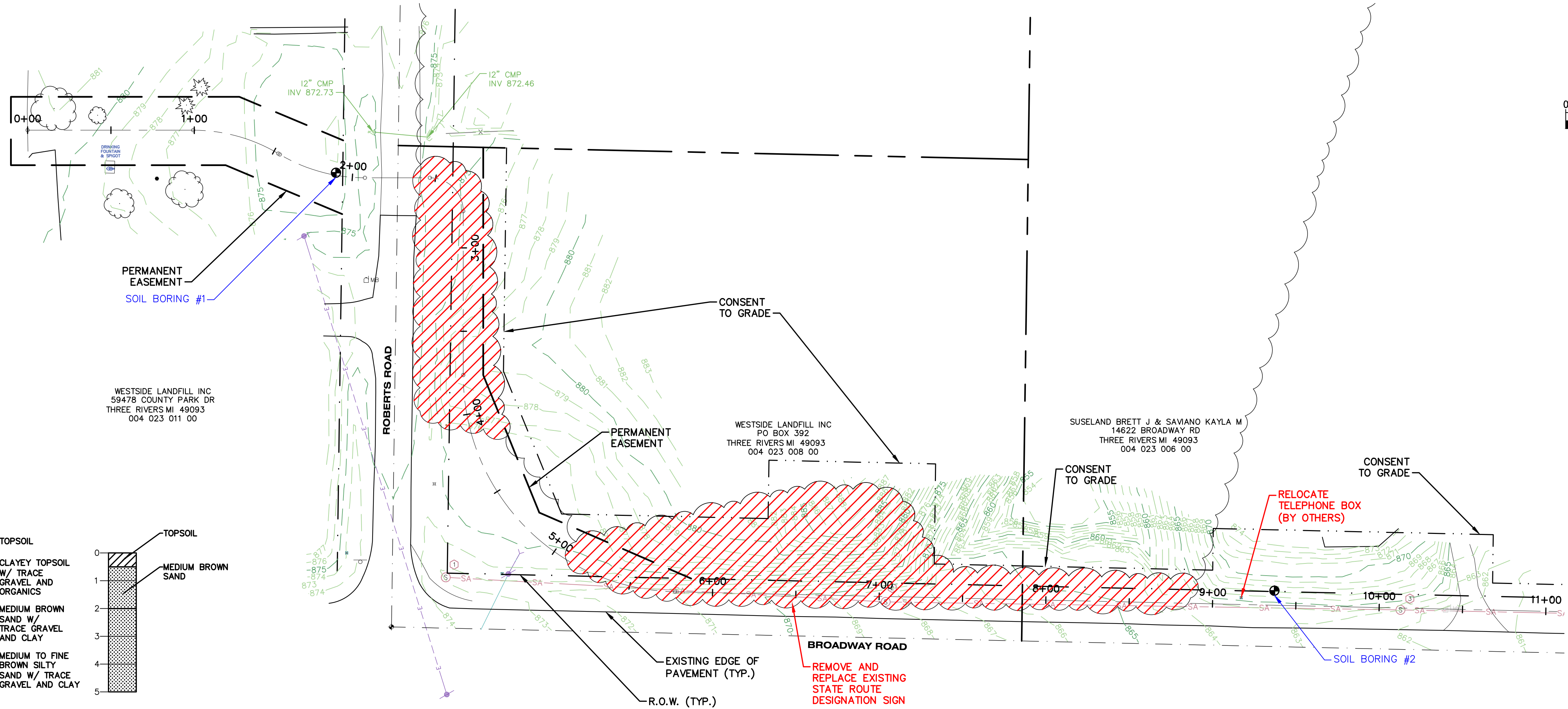
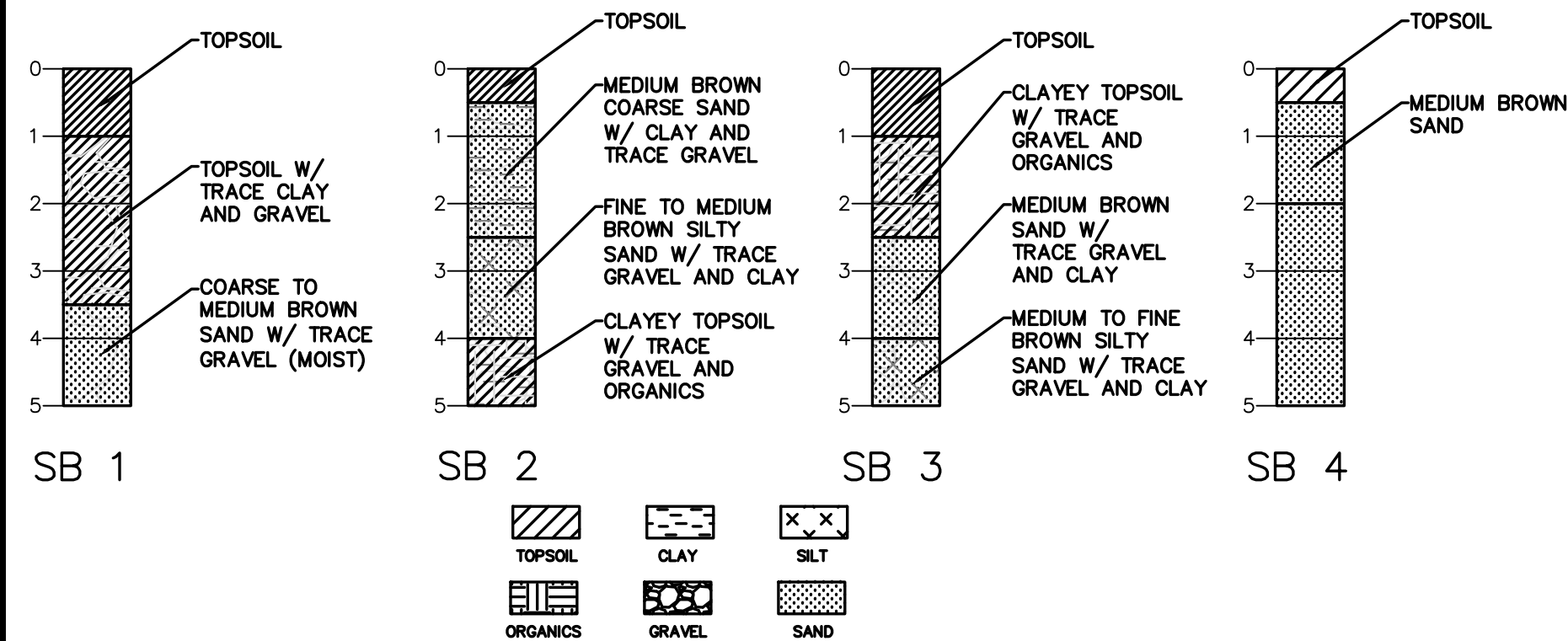
FIELD WORK PERFORMED BY:
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REMOVALS LEGEND

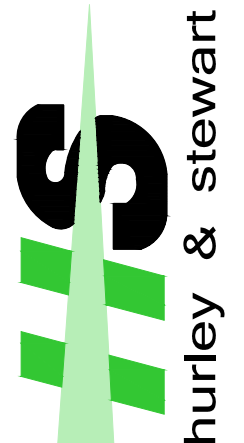
- XXXXXX CURB REMOVAL
- //// SAWCUT
- XXXX PAVEMENT/SIDEWALK REMOVAL
- TREE REMOVAL
- Ⓡ REMOVE
- LIMITS OF CONSTRUCTION

QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
2	Acres	Clearing
1	Ea	Culv, Rem, Less than 24 inch
134	Syd	HMA Surface, Rem
2	Ea	Sign, Type III, Rem



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Job No. 17-011D	P.M. JWP	Draft: ER	QA/QC: 6/25/20
ISSUED FOR/REVISIONS:			
2	GI SUBMITTAL	9/25/19	
3	FINAL PLANS	5/12/20	
4	PERMITS	6/8/20	
5	FINAL PLANS	6/25/20	
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Sheet Title: **BROADWAY REMOVALS - STA 0+00 TO STA 21+00**
Project: **MEYER-BROADWAY PATH**
Client: **CITY OF THREE RIVERS**

Sheet Title:
Project:
Client:

6/25/20
Sheet
5

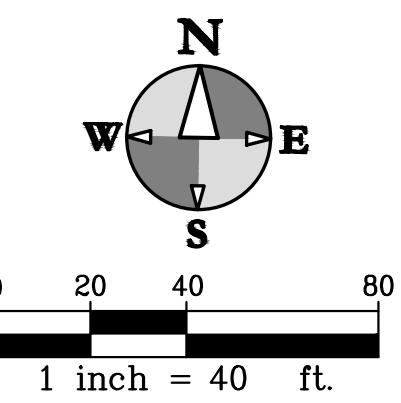
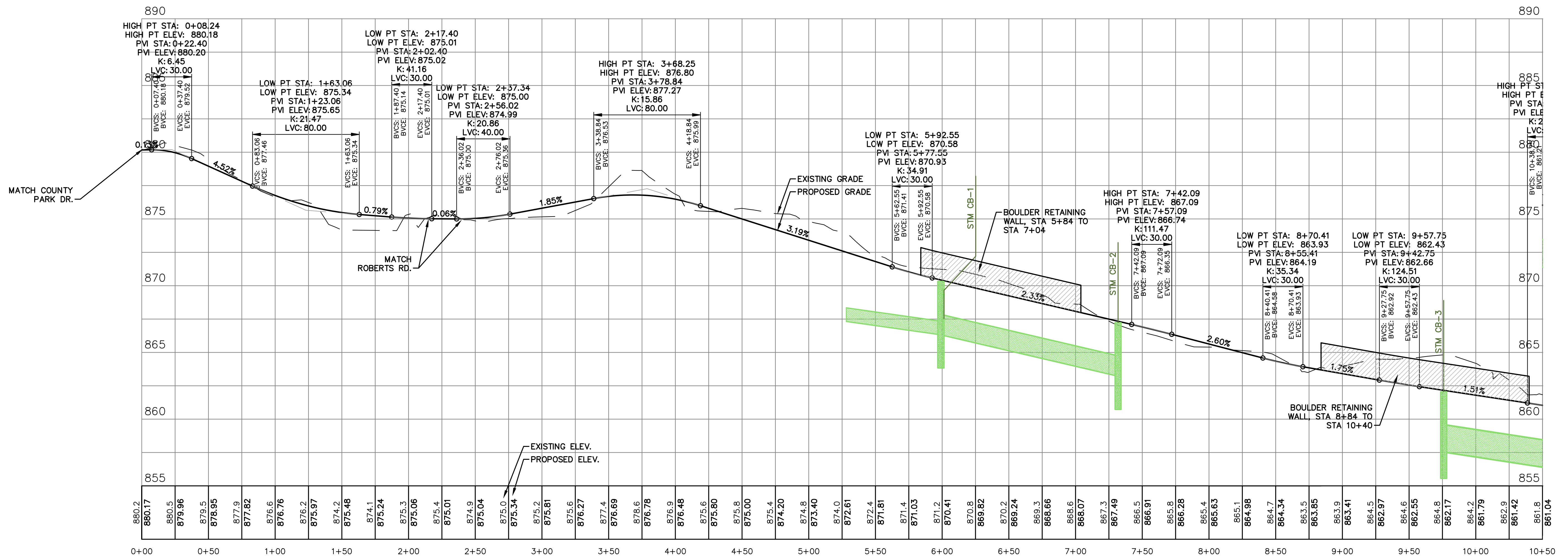
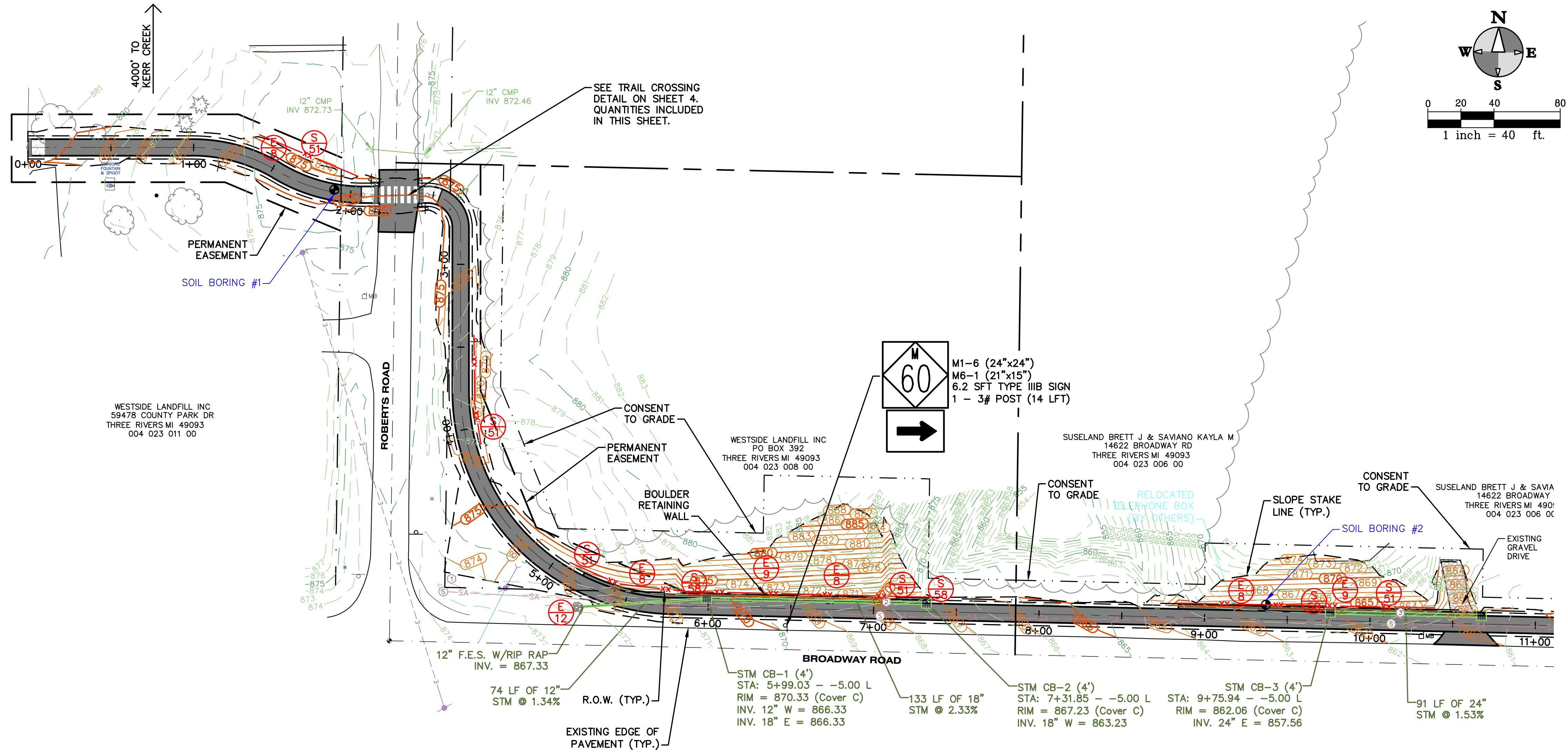


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FIELD WORK PERFORMED BY:
MOSTROM & ASSOCIATES, INC.

QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
3	Ea	Erosion Control, Inlet Protection, Fabric Drop
1050	Ft	Erosion Control, Silt Fence
4	Cyd	Subbase, CIP
1602	Syd	Aggregate Base, 6 inch
448	Syd	Shoulder, CI II, 3 inch
1	Ea	Culv End Sect, 12 inch
75	Ft	Sewer, CI A, 12 inch, Tr Det B
133	Ft	Sewer, Perf, 18 inch, Leaching Trench
72	Ft	Sewer, Perf, 24 inch, Leaching Trench
2	Ea	Dr Structure Cover, Adj. Case 2
3	Ea	Dr Structure Cover, Type C
2	Ft	Dr Structure, Adj. Add Depth
3	Ea	Dr Structure, Leaching, 48 inch dia, Modified
2	Ea	Dr Structure Cover, Type Q, Modified
18	Ton	HMA Approach
320	Sft	Sidewalk, Conc, 4 inch
30	Ft	Detectable Warning Surface, Modified
373	Ft	Curb Sloped, HMA
202	Ton	Shared Use Path, HMA
11	Sta	Shared Use Path, Station Grading
1	Ea	Post, Mailbox
189	Ft	Post, Steel, 3 lb
5	Sft	Sign, Type IIIA
56	Sft	Sign, Type IIIB
120	Ft	Pavt Mrkg, Ovlv Cold Plastic, 12 inch, Crosswalk
5	Syd	Riprap, Heavy
4788	Syd	Slope Restoration, Type B
831	Sft	Boulder Retaining Wall



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2	GI SUBMITTAL				9/20/19
3	FINAL PLANS				5/12/20
4	PERMITS				6/8/20
5	FINAL PLANS				6/25/20

BROADWAY - STA 0+00 TO STA 10+50 MEYER-BROADWAY PATH CITY OF THREE RIVERS

Sheet Title:
Project:
Client:

6/25/20
Sheet

6



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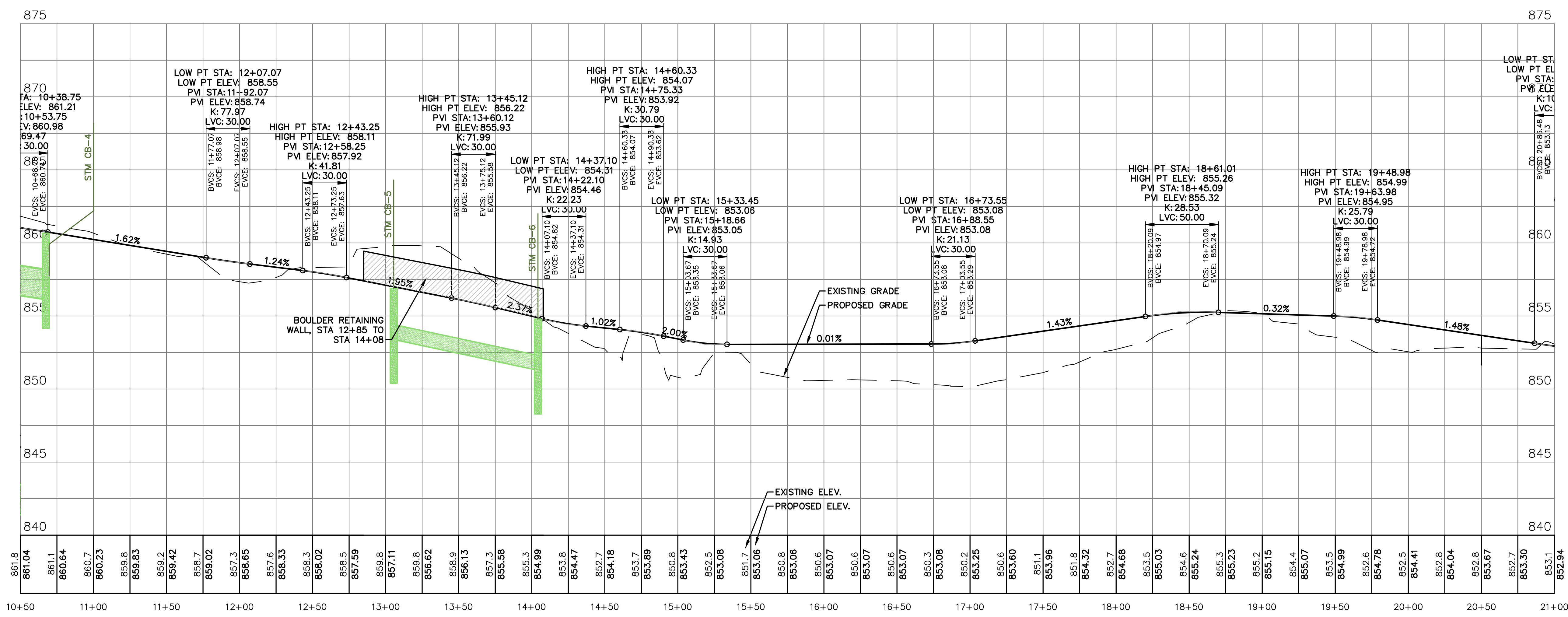
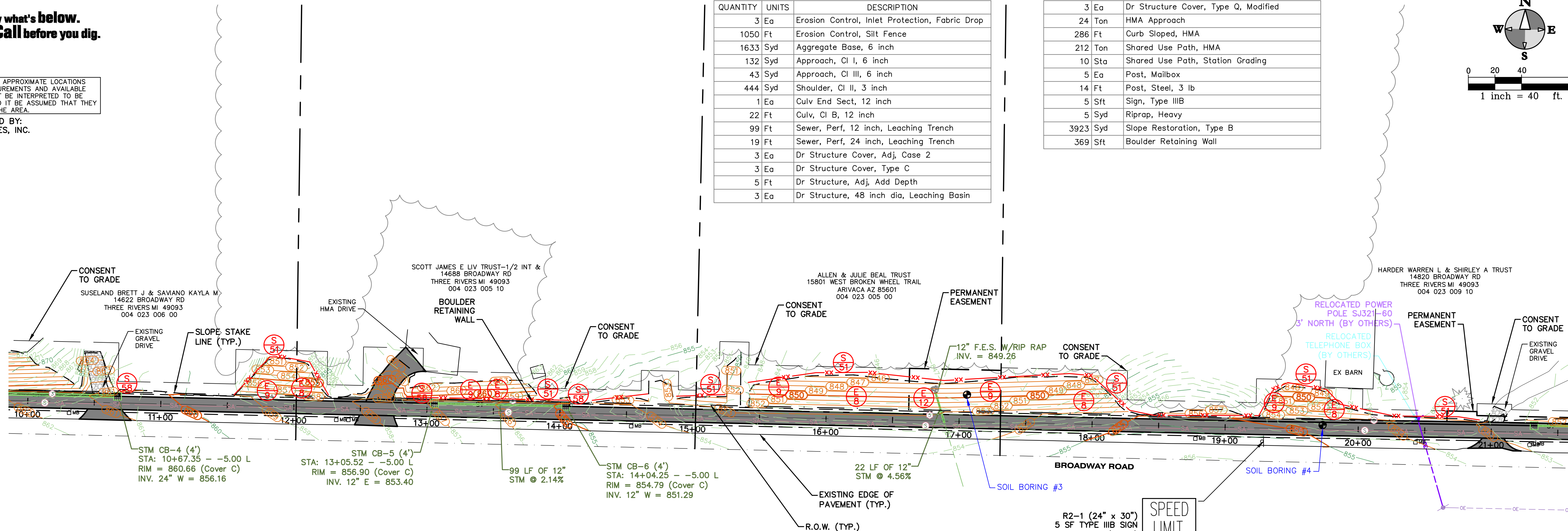
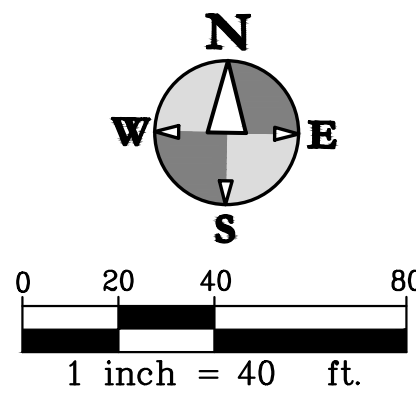
FIELD WORK PERFORMED BY:
MOSTROM & ASSOCIATES, INC.

DRAWING LOCATION: IS: V7-0110 (Three Rivers Millard Road Tract) FINAL DRAWINGS: V: Broadway - Sta 10+50 to Sta 21+00.dwg LAST SAVED BY: BURKOWSKI ON 6/23/2020

QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
3	Ea	Erosion Control, Inlet Protection, Fabric Drop
1050	Ft	Erosion Control, Silt Fence
1633	Syd	Aggregate Base, 6 inch
132	Syd	Approach, CI I, 6 inch
43	Syd	Approach, CI III, 6 inch
444	Syd	Shoulder, CI II, 3 inch
1	Ea	Culv End Sect, 12 inch
22	Ft	Culv, CI B, 12 inch
99	Ft	Sewer, Perf, 12 inch, Leaching Trench
19	Ft	Sewer, Perf, 24 inch, Leaching Trench
3	Ea	Dr Structure Cover, Adj, Case 2
3	Ea	Dr Structure Cover, Type C
5	Ft	Dr Structure, Adj, Add Depth
3	Ea	Dr Structure, 48 inch dia, Leaching Basin

3	Ea	Dr Structure Cover, Type Q, Modified
24	Ton	HMA Approach
286	Ft	Curb Sloped, HMA
212	Ton	Shared Use Path, HMA
10	Sta	Shared Use Path, Station Grading
5	Ea	Post, Mailbox
14	Ft	Post, Steel, 3 lb
5	Sft	Sign, Type IIIIB
5	Syd	Riprap, Heavy
3923	Syd	Slope Restoration, Type B
369	Sft	Boulder Retaining Wall



Sheet Title: **BROADWAY - STA 10+50 TO STA 21+00**
Project: **MEYER-BROADWAY PATH**
Client: **CITY OF THREE RIVERS**
6/25/20
Sheet **7**

Job No. 17-0110 P.M.-JWP Drft: EB QA/QC: 6/25/20
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2 G1 SUBMITTAL 9/20/19
3 FINAL PLANS 5/12/20
4 PERMITS 6/8/20
5 FINAL PLANS 6/25/20
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DRAWING LOCATION: H:\17-011D Three Rivers Millard Road Trail\ FINAL DRAWINGS\B Broadway Removals - Sta 21+00 to Sta 42+00.dwg LAST SAVED BY: BMRK0001 ON 6/23/2020

811

Know what's below.
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REMOVALS LEGEND

XXXXXX

CURB REMOVAL

////

SAWCUT

XXXXXX

PAVEMENT/SIDEWALK REMOVAL

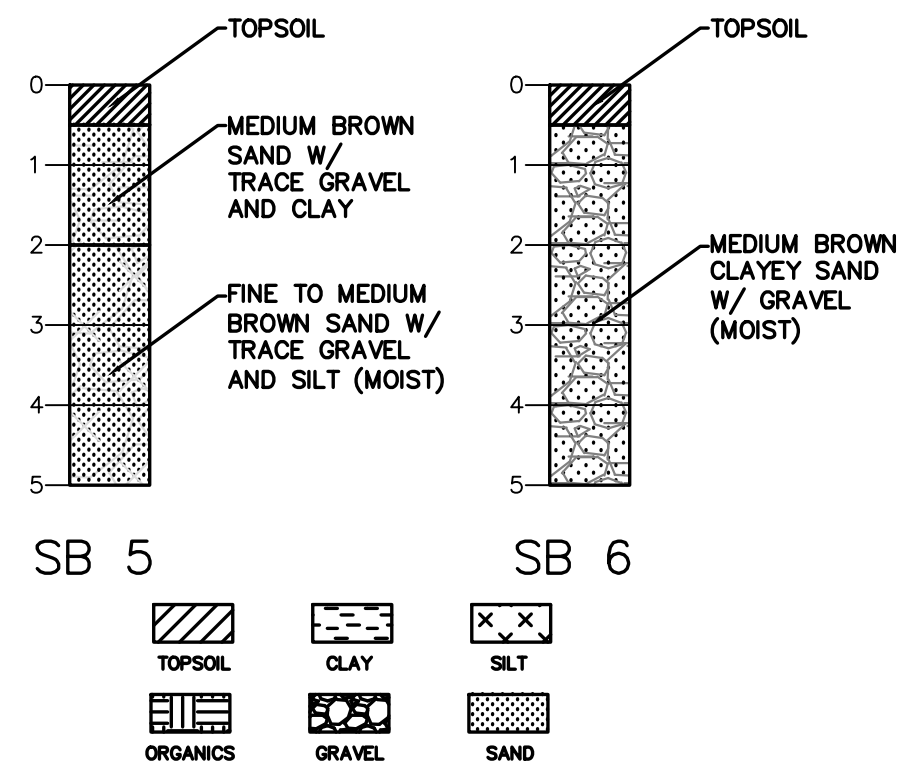
TREE REMOVAL

REMOVE

LIMITS OF CONSTRUCTION

QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
1.5	Acre	Clearing
7	Ea	Culv. Rem, Less than 24 inch
1	Ea	Sign, Type III, Rem

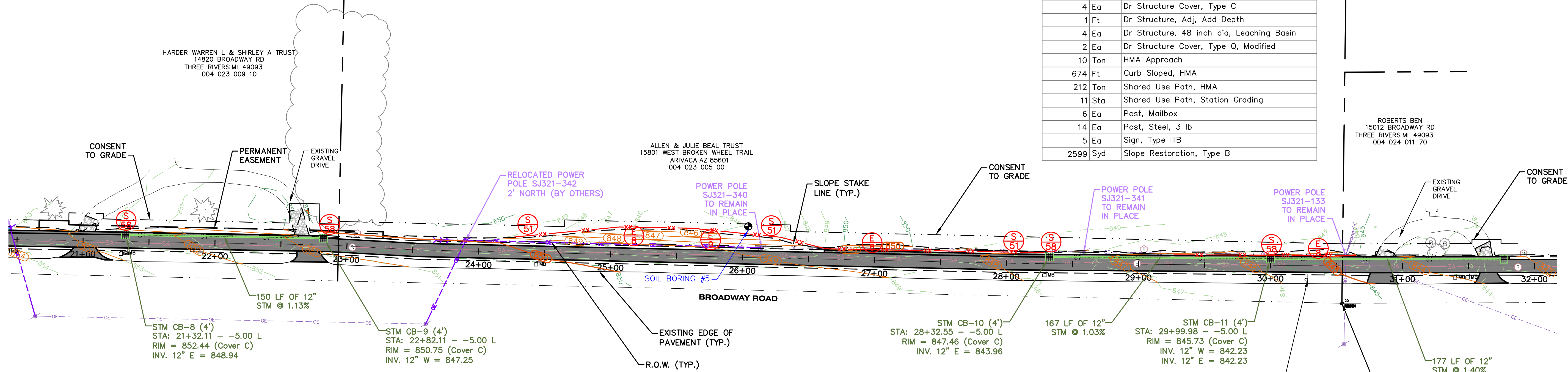


DRAWING LOCATION: 15-17-011D (Three Rivers Millard Road Trail) FINAL DRAWINGS V. Broadway - Sta 21+00 to Sta 31+50.dwg LAST SAVED BY: EMBARKORCH ON 6/23/2020



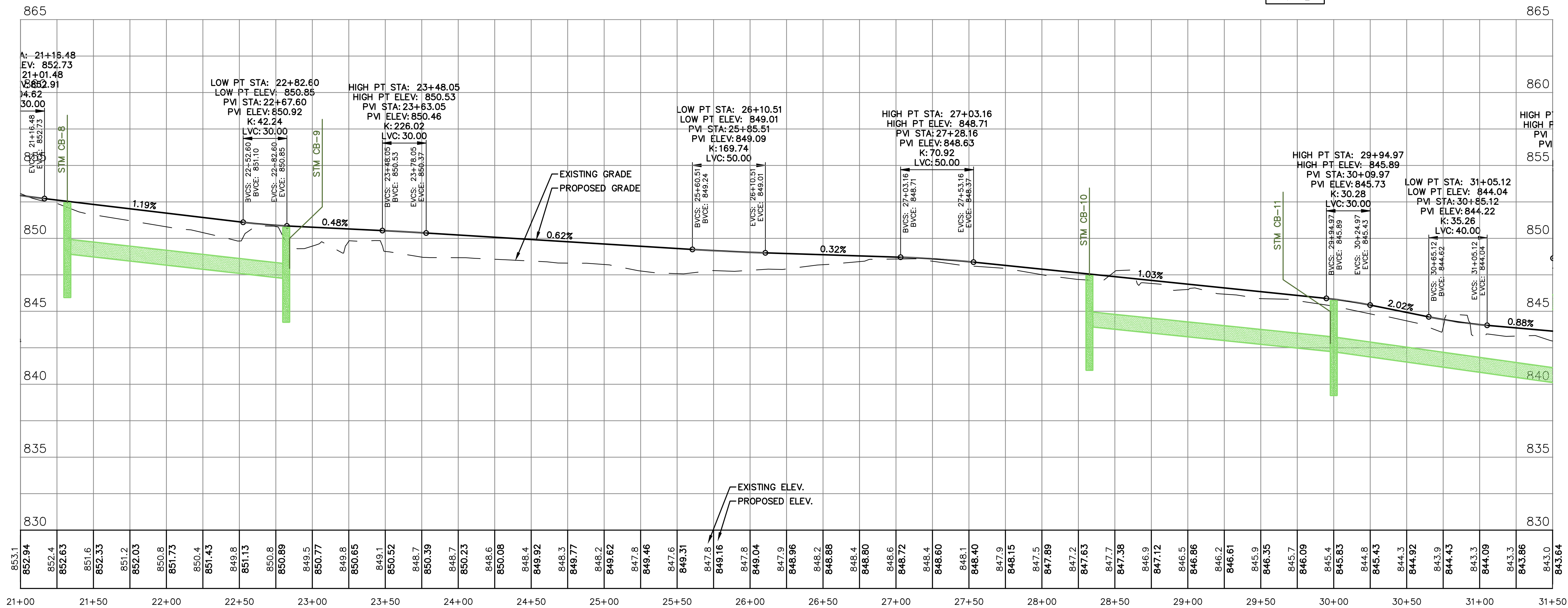
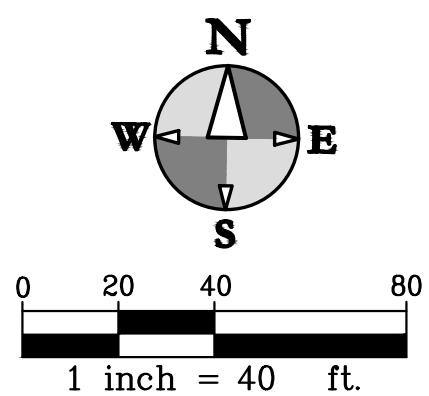
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FIELD WORK PERFORMED BY:
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QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
1050	Ft	Erosion Control, Silt Fence
1633	Syd	Aggregate Base, 6 inch
57	Syd	Approach, CI I, 6 inch
45	Syd	Approach, CI III, 6 inch
368	Syd	Shoulder, CI II, 3 inch
468	Ft	Sewer, Perf, 12 inch, Leaching Trench
2	Ea	Dr Structure Cover, Adj, Case 2
4	Ea	Dr Structure Cover, Type C
1	Ft	Dr Structure, Adj, Add Depth
4	Ea	Dr Structure, 48 inch dia, Leaching Basin
2	Ea	Dr Structure Cover, Type Q, Modified
10	Ton	HMA Approach
674	Ft	Curb Sloped, HMA
212	Ton	Shared Use Path, HMA
11	Sta	Shared Use Path, Station Grading
6	Ea	Post, Mailbox
14	Ea	Post, Steel, 3 lb
5	Ea	Sign, Type IIIB
2599	Syd	Slope Restoration, Type B

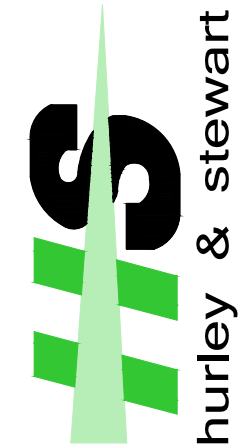


Sheet Title: **BROADWAY - STA 21+00 TO STA 31+50**
Project: **MEYER-BROADWAY PATH**
Client: **CITY OF THREE RIVERS**

Sheet Title: **BROADWAY - STA 21+00 TO STA 31+50**
Project: **MEYER-BROADWAY PATH**
Client: **CITY OF THREE RIVERS**

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9

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3 FINAL PLANS 5/12/20
4 PERMITS 6/8/20
5 FINAL PLANS 6/25/20
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DRAWING LOCATION: 117-011D (Three Rivers Millard Road Trail) FINAL (BRANNS)10 Broadway - Sta 31+50 to Sta 42+00.dwg LAST SAVED BY: BURKOWSKI ON 6/23/2020

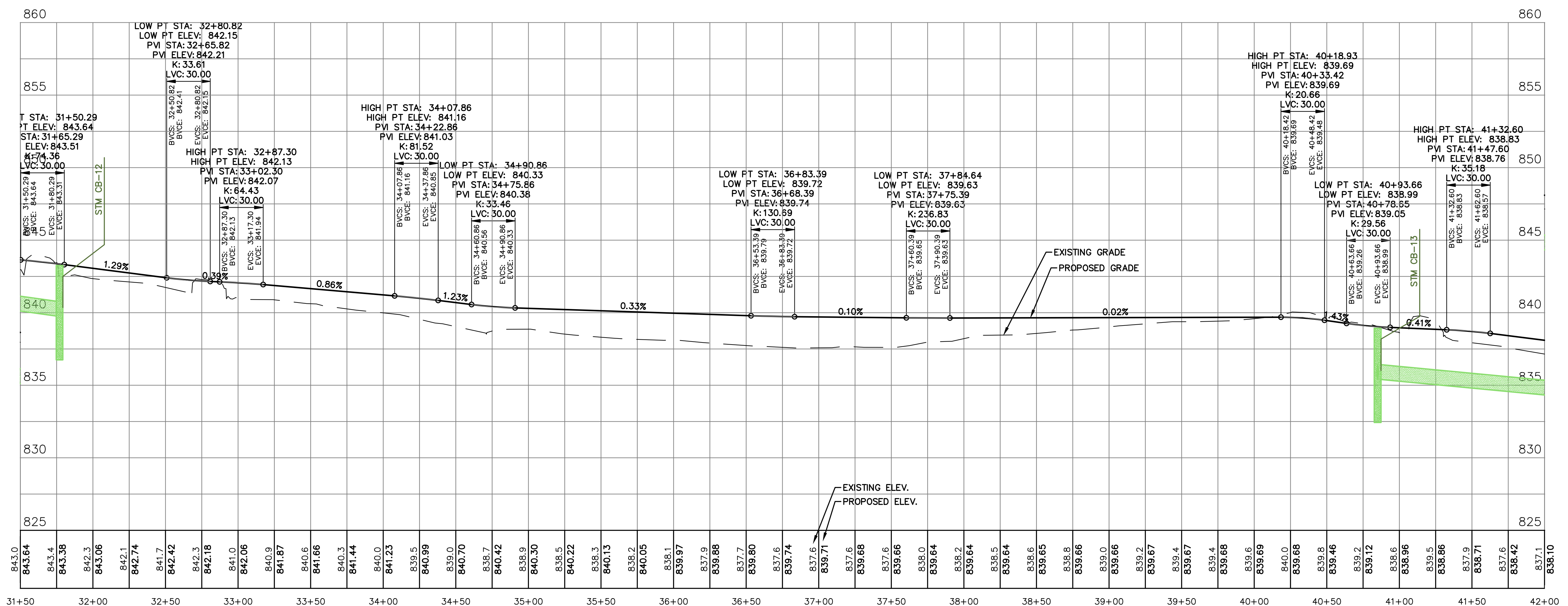
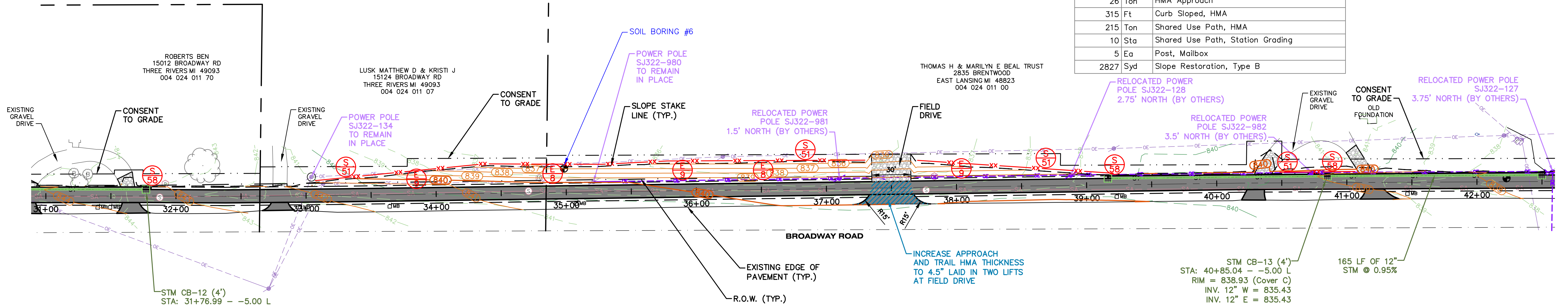
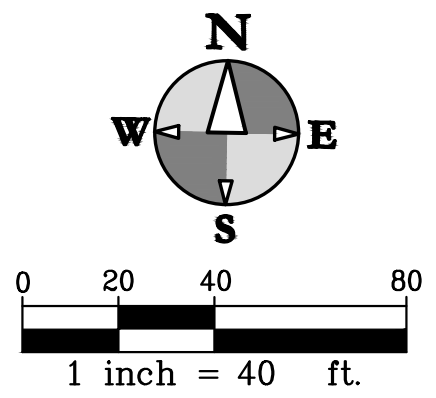


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QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
3	Ea	Erosion Control, Inlet Protection, Fabric Drop
1050	Ft	Erosion Control, Silt Fence
1633	Syd	Aggregate Base, 6 inch
94	Syd	Approach, CI I, 6 inch
133	Syd	Approach, CI III, 6 inch
461	Syd	Shoulder, CI II, 3 inch
311	Ft	Sewer, Perf, 12 inch, Leaching Trench
3	Ea	Dr Structure Cover, Adj, Case 2
3	Ea	Dr Structure Cover, Type C
3	Ft	Dr Structure, Adj, Add Depth
3	Ea	Dr Structure, 48 inch dia, Leaching Basin
3	Ea	Dr Structure Cover, Type Q, Modified
26	Ton	HMA Approach
315	Ft	Curb Sloped, HMA
215	Ton	Shared Use Path, HMA
10	Sta	Shared Use Path, Station Grading
5	Ea	Post, Mailbox
2827	Syd	Slope Restoration, Type B



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Job No. 17-011D P.M.-JWP Drft: EB QA/QC: 6/25/20

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4	PERMITS	6/8/20
5	FINAL PLANS	6/25/20

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BROADWAY - STA 31+50 TO STA 42+00

MEYER-BROADWAY PATH

CITY OF THREE RIVERS

Sheet Title:

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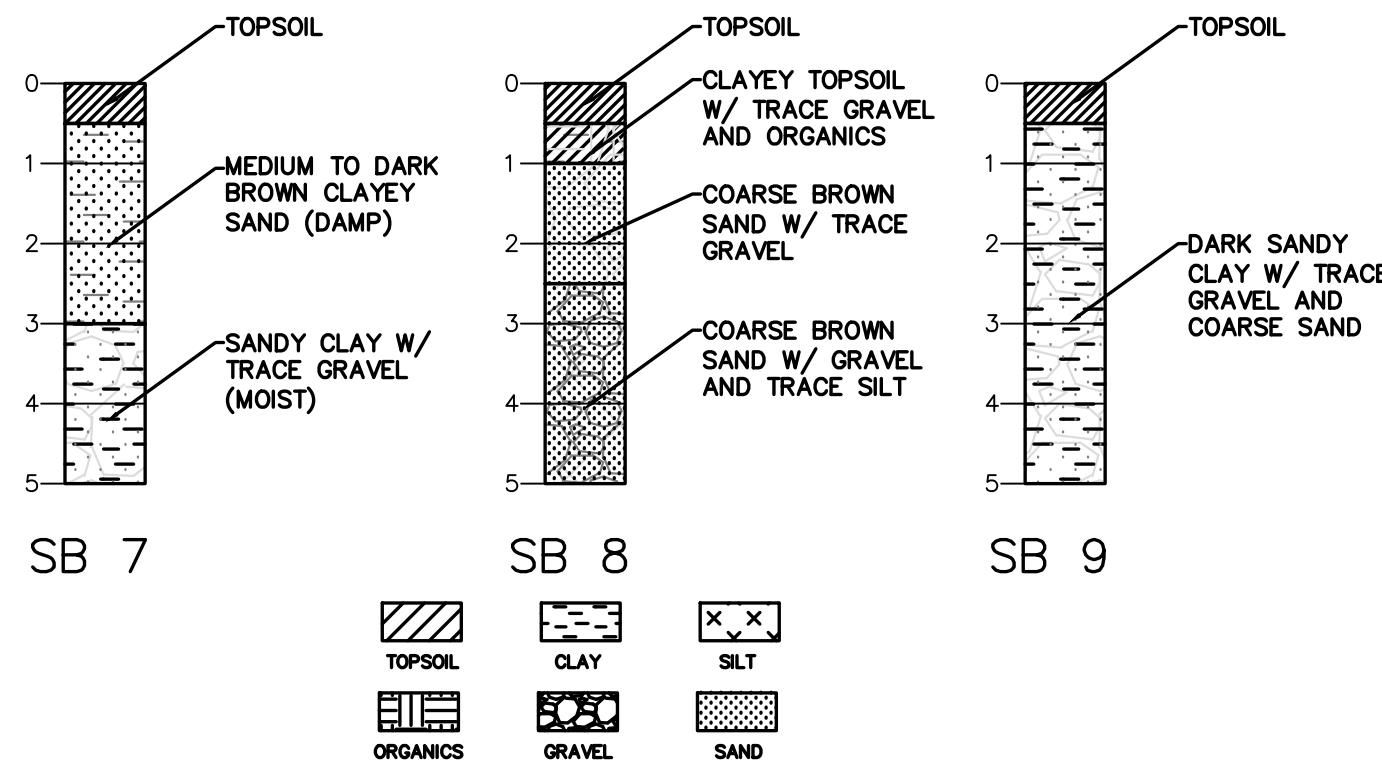
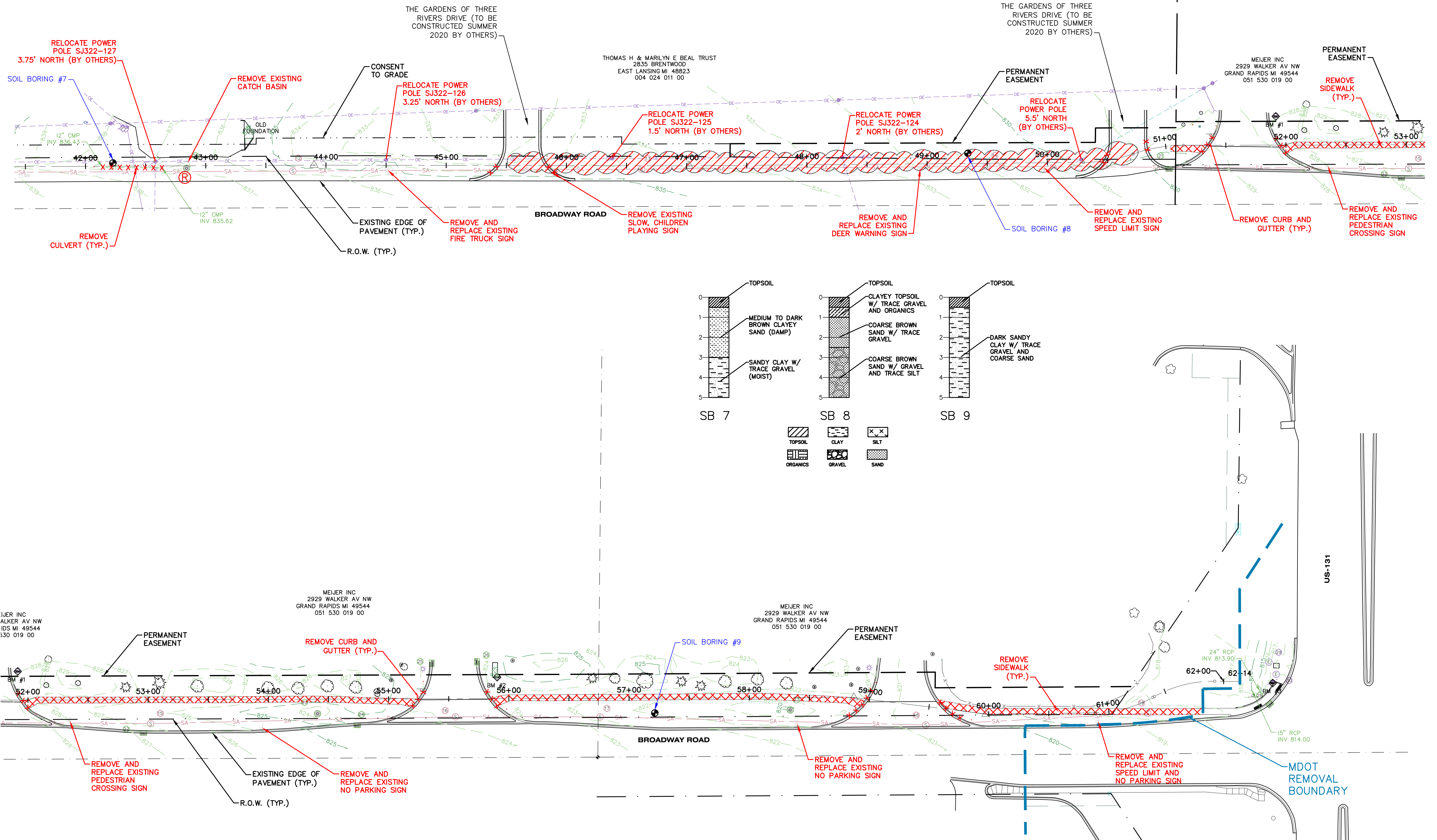
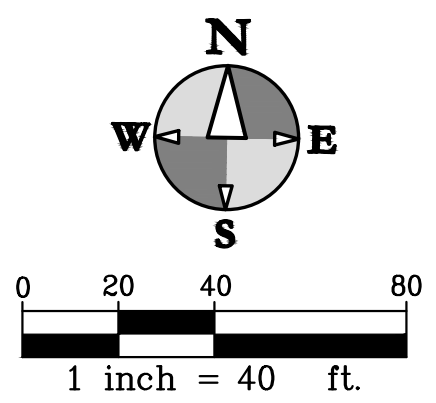
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REMOVALS LEGEND

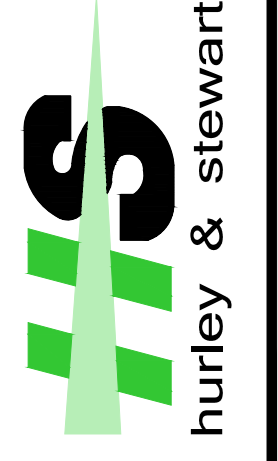
- XXXXXX CURB REMOVAL
- ////// SAWCUT
- XXXXXX PAVEMENT/SIDEWALK REMOVAL
- ⊗ TREE REMOVAL
- Ⓡ REMOVE
- — — — — LIMITS OF CONSTRUCTION

QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
1	Acre	Clearing
1	Ea	Culv, Rem, Less than 24 inch
1	Ea	Dr Structure, Rem
185	Ft	Curb and Gutter, Rem
496	Syd	Sidewalk, Rem
9	Ea	Sign, Type III, Rem



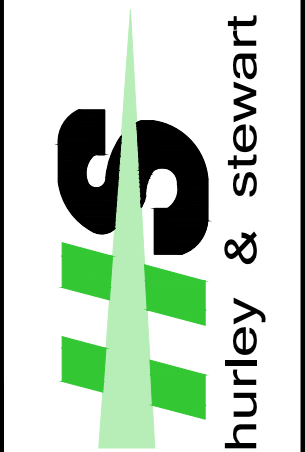
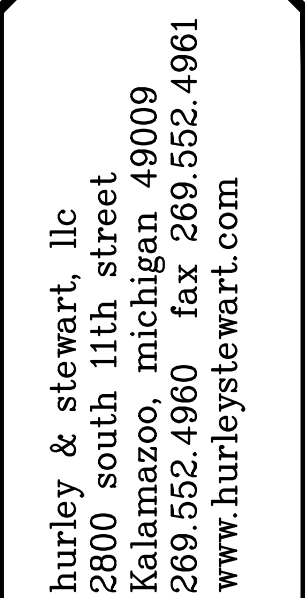
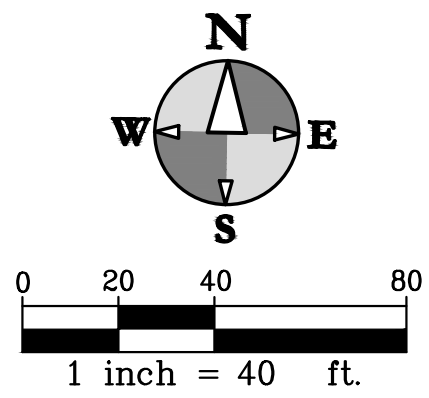
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2	GI SUBMITTAL	9/26/19			
3	FINAL PLANS	5/12/20			
4	PERMITS	6/8/20			
5	FINAL PLANS	6/25/20			
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Sheet Title: **BROADWAY REMOVALS - STA 42+00 TO STA 63+00**
Project: **MEYER-BROADWAY PATH**
Client: **CITY OF THREE RIVERS**

QUANTITY	UNITS	DESCRIPTION
2	Ea	Erosion Control, Inlet Protection, Fabric Drop
990	Ft	Erosion Control, Silt Fence
2	Cyd	Subbase, CIP
1540	Syd	Aggregate Base, 6 inch
36	Syd	Approach, Cl I, 6 inch
13	Syd	Approach, Cl III, 6 inch
514	Syd	Shoulder, Cl II, 3 inch
50	Ft	Sewer, Perf, 12 inch, Leaching Trench
3	Ea	Dr Structure Cover, Adj, Case 2
1	Ea	Dr Structure Cover, Type C
2	Ft	Dr Structure, Adj, Add Depth
1	Ea	Dr Structure, 48 inch dia, Leaching Basin
3	Ea	Dr Structure Cover, Type Q, Modified
12	Ton	HMA Approach
105	Ft	Curb Ramp Opening, Conc
200	Sft	Sidewalk, Conc, 4 inch
24	Ft	Detectable Warning Surface, Modified
54	Ft	Curb Sloped, HMA
203	Ton	Shared Use Path, HMA
11	Sta	Shared Use Path, Station Grading
58	Ft	Post, Steel, 3 lb
20	Sft	Sign, Type IIIB
30	Ft	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop B
60	Sft	Rem Spec Mrkg
2588	Syd	Slope Restoration, Type B



Job No.	17-001D	P.M.JWP	Drft:EB	QA/QC	6/25/20
ISSUED FOR REVISIONS:					
2	GI SUBMITTAL				9/26/19
3	FINAL PLANS				5/12/20
4	PERMITS				6/8/20
5	FINAL PLANS				6/25/20

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**BROADWAY - STA 42+00 TO STA 52+50
MEYER-BROADWAY PATH
CITY OF THREE RIVERS**

Sheet Title:
Project:
Client:

DRAWING LOCATION: H:\17-011D (Three Rivers Millard Road Trail) FINAL DRAWING\13 Broadway - Sta 52+50 to Sta 63+00.dwg LAST SAVED BY: EMBROUCH ON 6/25/2020

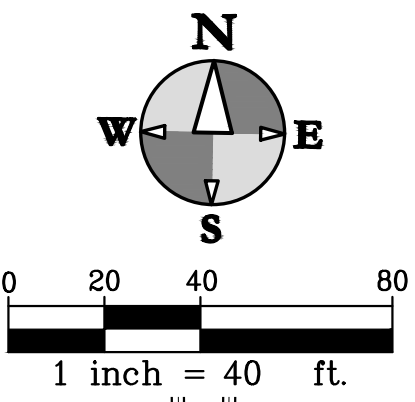
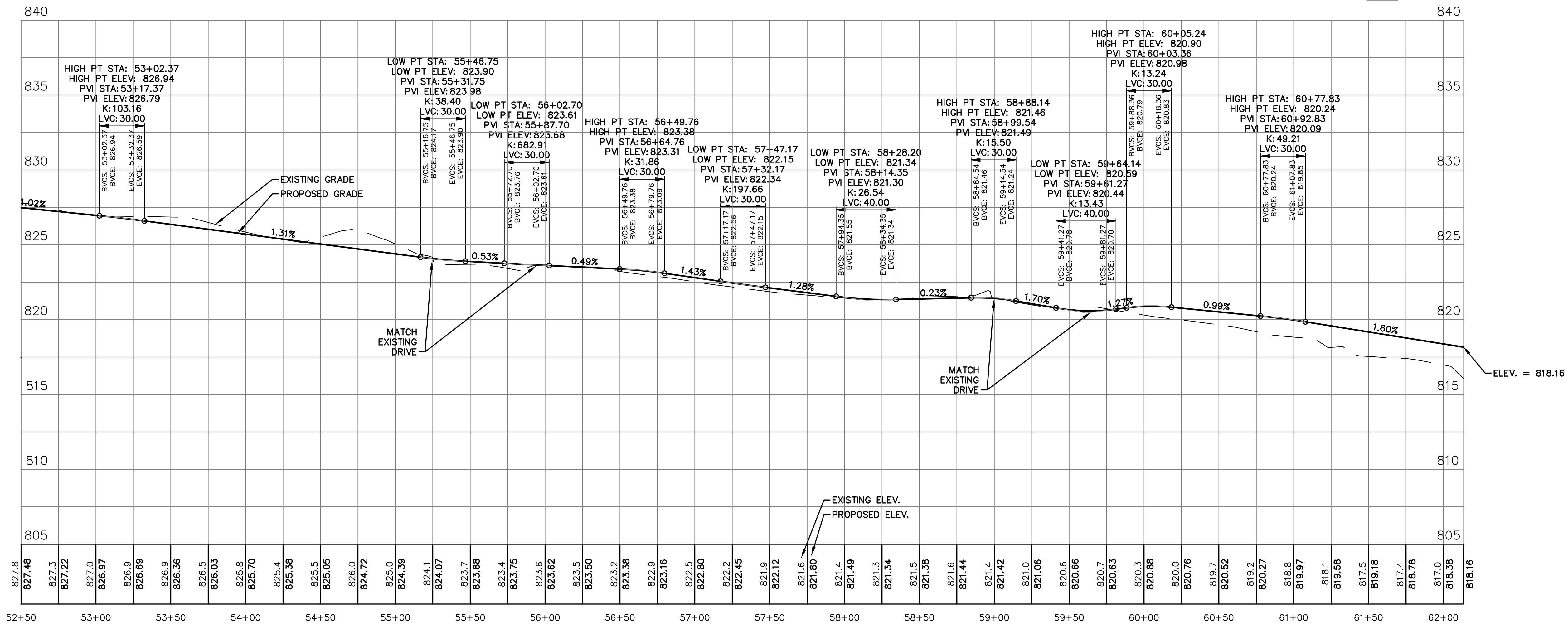
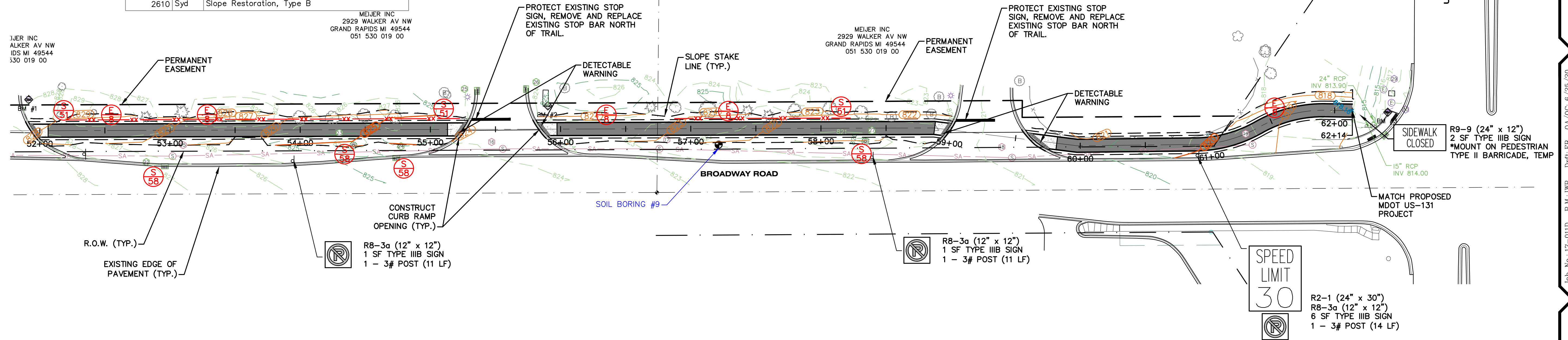


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FIELD WORK PERFORMED BY:
MOSTROM & ASSOCIATES, INC.

QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
840	Ft	Erosion Control, Silt Fence
6	Cyd	Subbase, CIP
1307	Syd	Aggregate Base, 6 inch
448	Syd	Shoulder, CI II, 3 inch
3	Ea	Dr Structure Cover, Adj, Case 2
2	Ft	Dr Structure, Adj, Add Depth
3	Ea	Dr Structure Cover, Type Q, Modified
80	Ft	Curb Ramp Opening, Conc
500	Sft	Sidewalk, Conc, 4 inch
56	Ft	Detectable Warning Surface, Modified
169	Ton	Shared Use Path, HMA
10	Sta	Shared Use Path, Station Grading
36	Ft	Post, Steel, 3 lb
10	Sft	Sign, Type IIIB
60	Ft	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar
120	Sft	Rem Spec Mrkg
1	Ea	Pedestrian Type II Barricade, Temp
2610	Syd	Slope Restoration, Type B



hurley & stewart, llc
2800 south 11th street
kalamazoo, michigan 49009
269.552.4960 fax 269.552.4961
www.hurleystewart.com

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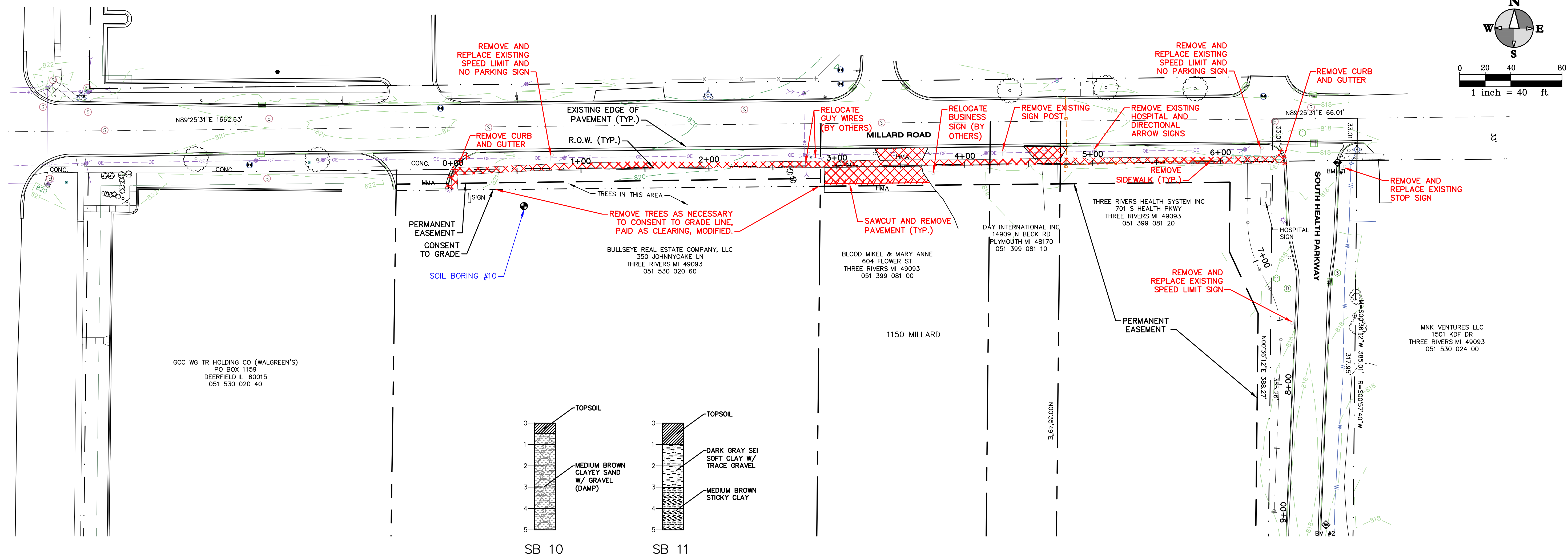
Job No. 17-011D P.M.-JWP Drt. EB QA/QC: 6/25/20
ISSUED FOR/REVISIONS:
2 GI SUBMITTAL 9/20/19
3 FINAL PLANS 5/12/20
4 PERMITS 6/8/20
5 FINAL PLANS 6/25/20
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Sheet Title:
Project:
Client:

BROADWAY - STA 52+50 TO STA 63+00
MEYER-BROADWAY PATH
CITY OF THREE RIVERS

6/25/20
Sheet
13

DRAWING LOCATION: H:17-0119 (Three Rivers Millard Road Trl) - FINAL DRAWING 14 Millard Road Removals - Sta 0+00 to Sta 16+50.dwg LAST SAVED BY: EMBARKONCH ON 6/23/2020



QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
87	Ft	Curb and Gutter, Rem
358	Syd	Sidewalk, Rem
233	Syd	HMA Surface, Rem
6	Ea	Sign, Type III, Rem

NON-PARTICIPATING QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
108	Ft	Curb and Gutter, Rem
25	Syd	Pavt, Rem

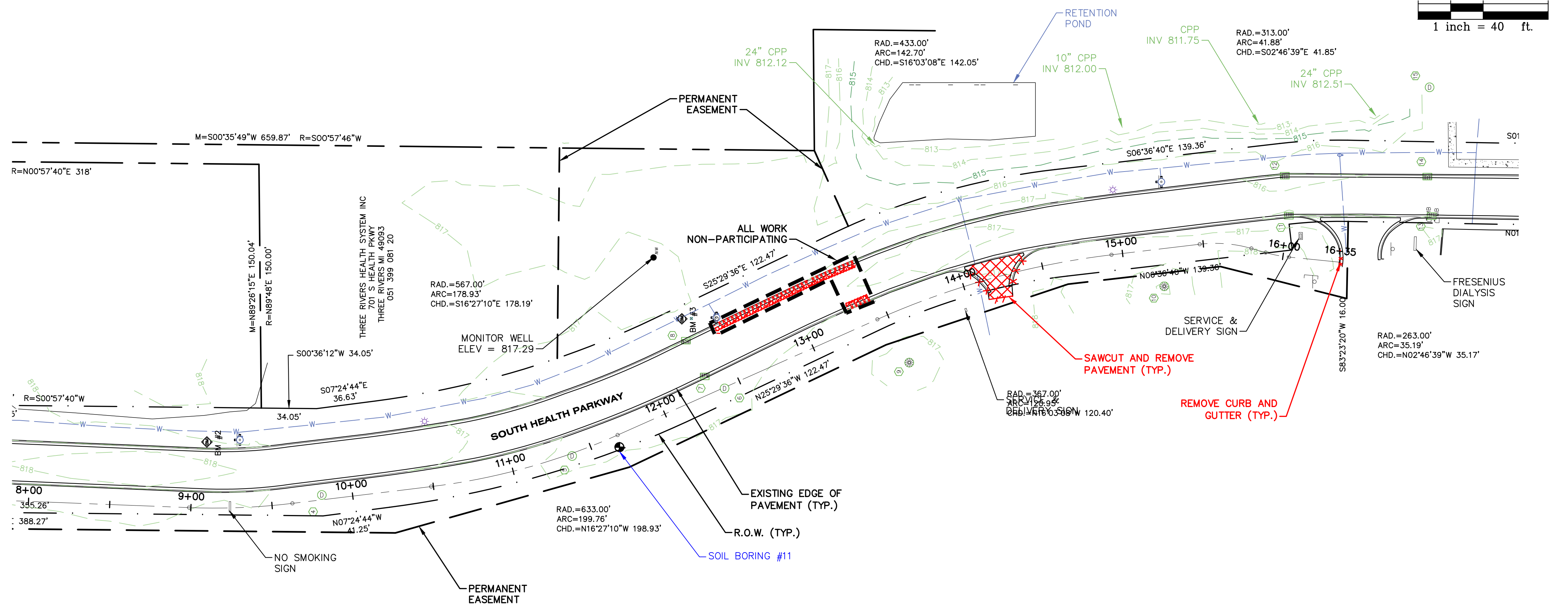
REMOVALS LEGEND

- XXXXXX CURB REMOVAL
- XXXXXX SAWCUT
- XXXXXX PAVEMENT/SIDEWALK REMOVAL
- TREE REMOVAL
- Ⓡ REMOVE
- LIMITS OF CONSTRUCTION



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FIELD WORK PERFORMED BY:
MOSTROM & ASSOCIATES, INC.



MILLARD REMOVALS - STA 0+00 TO STA 16+50

MEYER-BROADWAY PATH
CITY OF THREE RIVERS

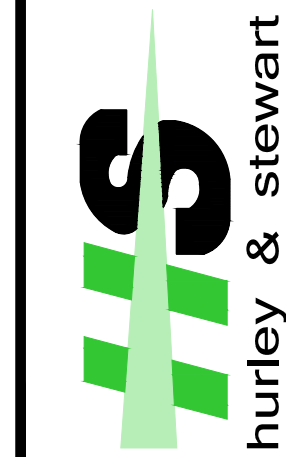
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Project:
Client:

6/25/20

Sheet

14

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Kalamazoo, michigan 49009
269.552.4960 fax 269.552.4961
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Job No. 17-0119 P.M.-JWP Drft. EB QA/QC: 6/25/20
ISSUED FOR REVISIONS:
2 G1 SUBMITTAL 9/20/19
3 FINAL PLANS 5/12/20
4 PERMITS 6/8/20
5 FINAL PLANS 6/25/20
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QUANTITIES THIS SHEET

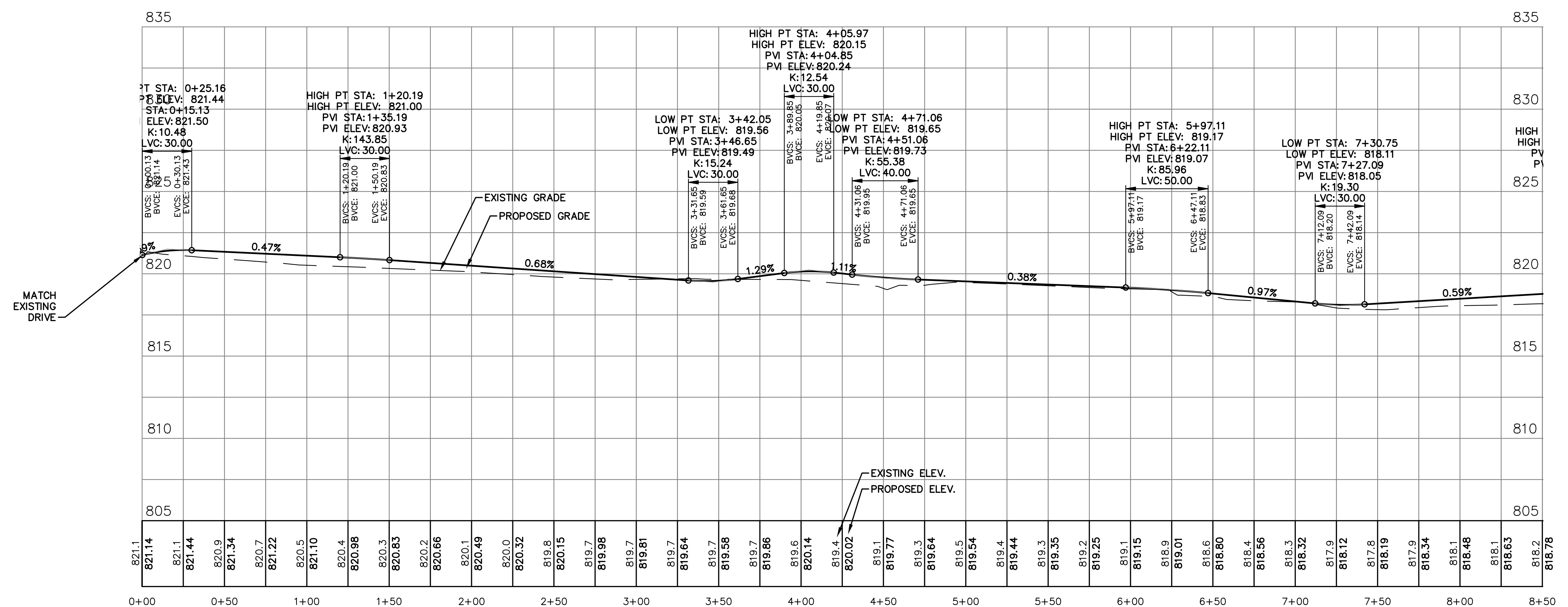
QUANTITY	UNITS	DESCRIPTION
850	Ft	Erosion Control, Silt Fence
5	Cyd	Subbase, CIP
1322	Syd	Aggregate Base, 6 inch
203	Syd	Approach, Cl I, 6 inch
12	Syd	Approach, Cl III, 6 inch
398	Syd	Shoulder, Cl II, 3 inch
1	Ea	Dr Structure Cover, Adj, Case 2
1	Ea	Dr Structure Cover, Type Q, Modified
37	Ton	HMA Approach
37	Ft	Curb Ramp Opening, Conc
315	Syd	Sidewalk Ramp, Conc, 4 inch
180	Syd	Sidewalk, Conc, 4 inch
20	Ft	Detectable Warning Surface, Modified
171	Ton	Shared Use Path, HMA
9	Sta	Shared Use Path, Station Grading
98	Ft	Post, Steel, 3 lb
11	Sft	Sign, Type IIIA
28	Sft	Sign, Type IIIB
2	Ea	Pedestrian Type II Barricade, Temp
1873	Syd	Slope Restoration, Type B



Know what's below.
Call before you dig.

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FIELD WORK PERFORMED BY:
MOSTROM & ASSOCIATES, INC.



MILLARD - STA 0+00 TO STA 8+50
MEYER-BROADWAY PATH
CITY OF THREE RIVERS

Sheet Title:
Project:
Client:

6/25/20

Sheet
15

FIELD WORK PERFORMED BY:
MOSTROM & ASSOCIATES, INC.

QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
762	Ft	Erosion Control, Silt Fence
1185	Syd	Aggregate Base, 6 inch
405	Syd	Shoulder, CI II, 3 inch
1	Ea	Dr Structure Cover, Adj, Case 1
3	Ea	Dr Structure Cover, Adj, Case 2
3	Ea	Dr Structure Cover, Type Q, Modified
54	Syd	Driveway, Nonreinf Conc, 8 inch
50	Ft	Curb Ramp Opening, Conc
154	Ton	Shared Use Path, HMA
8	Sta	Shared Use Path, Station Grading
148	Ft	Post, Steel, 3 lb
3	Sft	Sign, Type IIIA
36	Sft	Sign, Type IIIB
1239	Syd	Slope Restoration, Type B

NON-PARTICIPATING QUANTITIES THIS SHEET

QUANTITY	UNITS	DESCRIPTION
1	LS	Parking Lot Grading
500	Ft	Erosion Control, Silt Fence
27	Cyd	Subbase, CIP
876	Syd	Aggregate Base, 8 inch
159	Ton	HMA Approach
25	Syd	Conc Base Cse, Nonreinf, 6 inch
16	Ft	Curb and Gutter, Conc, Det C4
64	Ft	Driveway Opening, Conc, Det M
28	Ft	Curb Ramp Opening, Conc
90	Sft	Sidewalk Ramp, Conc, 4 inch
2124	Sft	Sidewalk, Conc, 4 inch
20	Ft	Detectable Warning Surface, Modified
14	Ft	Post, Steel, 3 lb
3	Sft	Sign, Type IIIA
120	Ft	Pavt Mrkg, Ovly Cold Plastic, 12 inch, Crosswalk
1	Ea	Pavt Mrkg, Preformed Thermoplastic, Accessible Sym
145	Ft	Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, Blue
340	Ft	Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, Yellow
1556	Syd	Slpoe Restoration, Type B

