

ST. JOHN MEMORIAL TRAIL

3400 WEST MEMORIAL DRIVE
FLINT, MICHIGAN

SHEET INDEX

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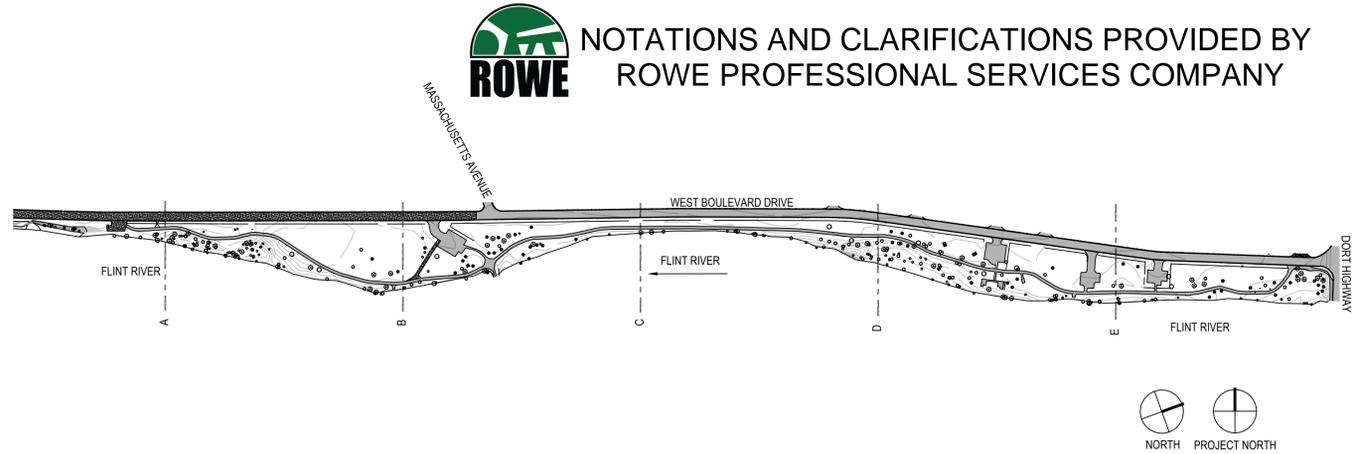
SITE NOTES

SEE SITE SURVEY FOR ZONING CLASSIFICATIONS AND LEGAL DESCRIPTION.

GENERAL NOTES

- PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE LANDSCAPE ARCHITECT FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING', AND UNTIL WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
- PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION. TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC. CALL MISS DIGG (800) 482-7171 A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ANY IDENTIFIED DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS PRIOR TO THE START OF WORK. DURING PERFORMANCE OF WORK, VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND CROSS-CHECK DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. IN ALL CASES WHERE A CONFLICT MAY OCCUR, THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
- IF THERE ARE DISCREPANCIES BETWEEN THIS SET OF PLANS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL CONTROL. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION. CONTACT '811' UNDERGROUND UTILITIES LOCATION CENTER PRIOR TO ANY SITE DEMOLITION OR SUBSURFACE IMPROVEMENT.
- TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC.
- SECURE ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES WITH UTILITIES ON THE SITE PRIOR TO THE CONSTRUCTION OF THE PROJECT. PROTECT ALL PUBLIC AND PRIVATE UTILITIES FROM DAMAGE DURING SITE REMOVALS.
- ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE. AVOID LEAVING UNINSURED MATERIALS AND EQUIPMENT ON THE SITE OVERNIGHT. THE OWNER IS NOT RESPONSIBLE FOR STOLEN OR DAMAGED ITEMS LEFT ON SITE.
- USE DIMENSIONS SHOWN ON DRAWINGS FOR LAYOUT OF THE WORK. DO NOT USE SCALE DIMENSIONS FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS. DIMENSIONS ARE FRONT CENTERLINE, BACK OR CURB, CENTER OF POST, OR EDGE OR PAVEMENT, UNLESS OTHERWISE NOTED. VERIFY LOCATIONS IN FIELD WITH LANDSCAPE ARCHITECT. ALL DIMENSIONS MUST BE FIELD VERIFIED AND ANY DISCREPANCIES REPORTED TO THE LANDSCAPE ARCHITECT/OWNER IMMEDIATELY.
- DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.
- DISPOSE ALL ELEMENTS DESIGNATED FOR REMOVAL IN A LEGAL MANNER. PROVIDE RECEIPTS AND LETTERS FROM DISPOSAL SITES TO OWNER AS REQUIRED BY THE OWNER. REMOVE OBSTRUCTIONS, TREES, SHRUBS AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVE EXISTING SOD, GRASS AND WEEDS BEFORE STRIPPING TOPSOIL. LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE. REMOVE SURPLUS SOIL MATERIALS, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS AND WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
- COORDINATE WORK OF SUBCONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK.
- MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION.
- PROVIDE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL BEARING WATER RUN-OFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO LOCAL CITY ORDINANCE AND EROSION CONTROL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. ANY PERMITS REQUIRED ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- INSPECT, MAINTAIN AND REPAIR EROSION CONTROLS UNTIL CONSTRUCTION IS COMPLETE. REMOVE EROSION AND SEDIMENT CONTROLS, AND RESTORE AND STABILIZED AREAS DISTURBED DURING REMOVAL AT THE END OF CONSTRUCTION.
- ADHERE TO ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS, CODES, ORDINANCES OR REGULATIONS PERTAINING TO THE PROJECT.

SITE OVERVIEW: 1" = 250'



NOTATIONS AND CLARIFICATIONS PROVIDED BY
ROWE PROFESSIONAL SERVICES COMPANY

ABBREVIATIONS

A	ABANDONED	EQ	EQUAL	MAX	MAXIMUM	SAN	SANITARY SEWER
ABD	ABANDONED	ESVCP	EXTRA STRENGTH VITRIFIED CLAY PIPE	M.E.	MATCH EXISTING	SCH	SCHEDULE
ABS	ACRYLONITRILE BUTADIENE STYRENE	EVCE	END OF VERTICAL CURVE ELEVATION	MED	MEDIUM	SECT	SECTION
AC	ACRES	EVCS	END OF VERTICAL CURVE STATION	MFR	MANUFACTURER	SESC	SOIL EROSION AND SEDIMENTATION CONTROL
ADA	AMERICANS WITH DISABILITIES ACT	EX	EXISTING	MH	MANHOLE	SIM	SIMILAR
ANLA	AMERICAN NURSERY AND LANDSCAPE ASSOCIATION	F		MIN	MINIMUM	SP	SPACE, SPACED, SPACING
APPROX	APPROXIMATE	FF:	FINISH FLOOR ELEVATION	MISC	MISCELLANEOUS	SQ FT	SQUARE FEET
ARCH	ARCHITECT(URAL)	FG	FINISH GRADE	MOD	MODIFIED	SQ YD	SQUARE YARD
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FHWA	FEDERAL HIGHWAY ADMINISTRATION	N		ST	STREET
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FLASH	FLASHING	N	NORTH, NORTHING COORDINATE	ST LT	STREET LIGHT
B		FM	FORCE MAIN	NA	NOT APPLICABLE	STA	STATION
B.M.	BENCHMARK	FT	FOOT, FEET	NIC	NOT IN CONTRACT	STAG	STAGGER, STAGGERED
BIT	BITUMINOUS	FURN	FURNISHING	N.T.S.	NOT TO SCALE	STD	STANDARD
BLDG	BUILDING	G		O		STL	STEEL
B/F	BOTTOM OF FOOTING	GALV	GALVANIZED	O.C.	ON CENTER	SSL	STAINLESS STEEL
B/S	BOTTOM OF SWALE	GAS	NATURAL GAS	O.D.	OUTER DIAMETER	STM	STORM SEWER
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION	G/C:	GUTTER OF CURB (FLOWLINE)	OFF	OFFSET	STRUCT	STRUCTURAL
BVCS	BEGINNING OF VERTICAL CURVE STATION	GVL	GRAVEL	OPT	OPTIONAL	SUBCONTR	SUBCONTRACTOR
B/W	BOTTOM OF WALL (FINISH GRADE)	H		PC	POINT OF CURVATURE (POC)	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
C		H	HIGH	PE	PEDESTRIAN	T	
CB	CATCH BASIN	HB	HOSE BIBB	PERF	PERFORATED	T	TELECOM
CI	CURB INLET	HCAP	ADA HANDICAP	PERP	PERPENDICULAR	T/C	TOP OF CURB
CIP	CAST IRON PIPE	HDPE	HIGH-DENSITY POLYETHYLENE	PLMB	PLUMBING	TEMP	TEMPORARY
CL	CLASS	HMA	HOT MIX ASPHALT	PREFAB	PREFABRICATED	T/F	TOP OF FOOTING
CMP	CORRUGATED METAL PIPE	HORZ	HORIZONTAL	PROP	PROPOSED	T/S	TOP OF SWALE
CON	CONDENSATE	HP	HIGH POINT	PSF	POUNDS PER SQUARE FOOT	T/W	TOP OF WALL
CO	CLEANOUT	HT	HEIGHT	PSI	POUNDS PER SQUARE INCH	TYP.	TYPICAL
CONC	CONCRETE	I		PT	POINT, POINT OF TANGENCY (POT)	U	
CONTR	CONTRACTOR	I.D.	INNER DIAMETER	PVC	POINT OF VERTICAL CURVATURE, POLYVINYL CHLORIDE	UD	UNDERDRAIN
CU FT	CUBIC FOOT	IN	INCH, INCHES	PVI	POINT OF VERTICAL INTERSECTION	UTIL	UTILITY
CURV	CURVATURE	INCL	INCLUDE, INCLUDING	PVMT	PAVEMENT	V/B:	VALVE BOX
CU YD	CUBIC YARD	INL	INLET	PWR	POWER	VERT	VERTICAL
CWR	CHILLED WATER RETURN	INV:	PIPE INVERT ELEVATION	Q		W	
CWS	CHILLED WATER SUPPLY	IRR	IRRIGATION	QTY	QUANTITY	W	WEST
D		K		R		WM	WATER MAIN
DEMO	DEMOLISH	K	K VALUE	RAD	RADIUS	W/O	WITHOUT
DEPT	DEPARTMENT	J		RCP	REINFORCED CONCRETE PIPE	WWF	WELDED WIRE FABRIC
DIA	DIAMETER	JT	JOINT	RCPT	RECEPTACLE	Y	
DIP	DUCTILE IRON PIPE	L		RD	ROAD	YD	YARD DRAIN
DWG	DRAWING	L	LENGTH	REF	REFERENCE	SYMBOL	
E		LF	LINEAR FEET	REINF	REINFORCED, REINFORCEMENT	Ø	DIAMETER
E	EAST, EASTING COORDINATE	LPT	LOW POINT	REM	REMOVE	±	PLUS/MINUS
EA	EACH	LN	LANE	REQD	REQUIRED	Δ	DELTA
EG	EXISTING GRADE	LT	LIGHT	RIM:	RIM ELEVATION		
ELEV	ELEVATION	LTG	LIGHTING	ROW	RIGHT OF WAY		
E/P	EDGE OF PAVEMENT (EDGE OF METAL)	LVC	LENGTH OF VERTICAL CURVE	S			
		M		S	SOUTH		
		MAS	MASONRY				
		MATL	MATERIAL				

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FLUTTER & WOW
MUSEUM PROJECTS



CUSTOMER:



PROJECT:

ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505

Released

BID SET	07/17/2025
EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SEAL:



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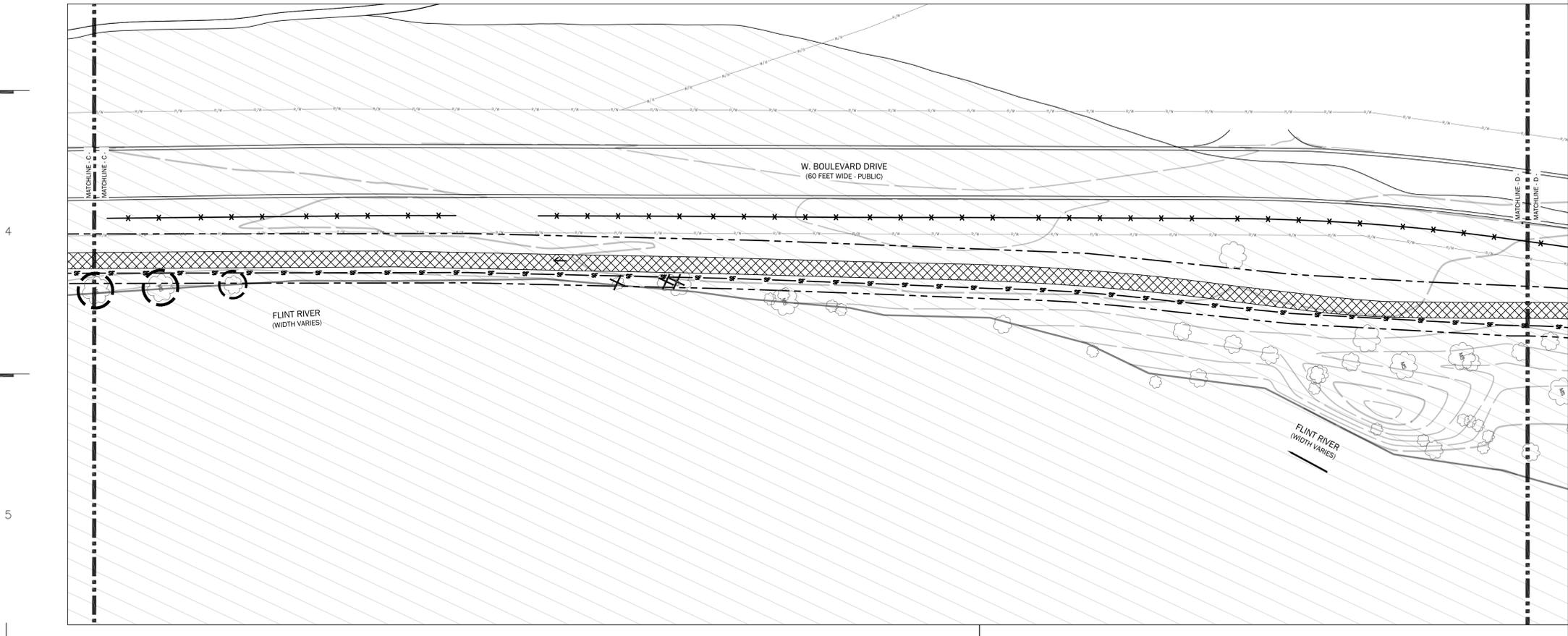
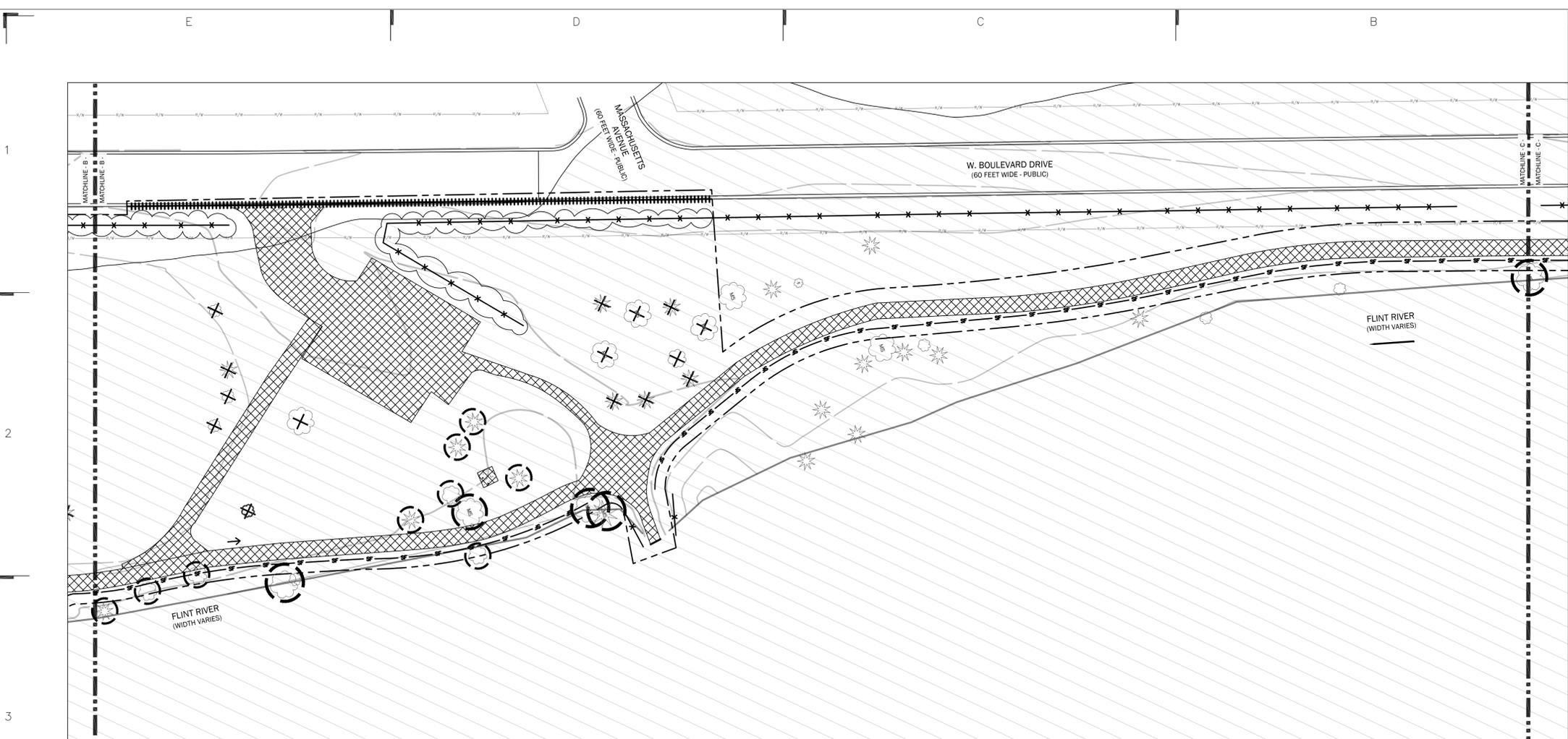
COVER AND INDEX SHEET

Date: 02.14.2025

Project Number: 240401

SHEET NUMBER:

L-000

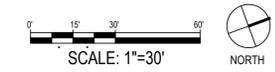


DEMOLITION SHEET NOTES

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- NOTIFY THE ENGINEER IN WRITING OF ANY IDENTIFIED DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF WORK. DURING PERFORMANCE OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND CROSS-CHECK DETAILS AND DIMENSION SHOWN ON THE DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. IN ALL CASES WHERE A CONFLICT MAY OCCUR, THE ENGINEER SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
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- ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
- TAKE NOTE OF ALL GRADING AND DRAINAGE WAYS AND MAINTAIN THESE DRAIN WAYS FLOWS FREE OF OBSTRUCTIONS.
- DISPOSE ALL ELEMENTS DESIGNATED FOR REMOVAL IN A LEGAL MANNER. PROVIDE RECEIPTS AND LETTERS FROM DISPOSAL SITES TO OWNER AS REQUIRED BY THE OWNER.
- ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- REFER TO THE PLAN FOR SAWCUT LOCATIONS. ASPHALT HAND PATCHING AND/OR REPAVING MAY BE REQUIRED TO COMPLETE THE CURB REPLACEMENT IN SELECT AREAS TO BE DETERMINED UPON THE COMPLETION OF DEMOLITION.
- COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK.
- ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.
- CONTACT '811' UNDERGROUND UTILITIES LOCATION CENTER PRIOR TO DEMOLITION OF THE SITE.
- REFER TO THE FEMA FLOOD ZONES AND FEMA FLOODWAY AND ADHERE TO STATE REGULATIONS DURING CONSTRUCTION WITHIN THESE ZONES.

LEGEND

- LIMITS OF CONSTRUCTION
- PUBLIC RIGHT OF WAY
- EXISTING FENCE, TO REMAIN
- EXISTING FENCE, TO REMOVE
- CONCRETE CURB FULL REMOVAL, ASPHALT PATCHING MAY BE REQUIRED
- ASPHALT SAWCUT LOCATIONS
- FULL DEPTH PAVEMENT REMOVAL
- EXISTING TREE TO REMOVE
- EXISTING TREE TO PROTECT
- SILT FENCE
- FEMA REGULATORY FLOODWAY



PROJECT:

ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505

EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SEAL:

SHEET TITLE:

DEMOLITION PLAN -
B

Date: 02.14.2025

Project Number: 240401

SHEET NUMBER:

L-101

DEMOLITION SHEET NOTES

- PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE ENGINEER FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
- NOTIFY THE ENGINEER IN WRITING OF ANY IDENTIFIED DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF WORK. DURING PERFORMANCE OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND CROSS-CHECK DETAILS AND DIMENSION SHOWN ON THE DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. IN ALL CASES WHERE A CONFLICT MAY OCCUR, THE ENGINEER SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
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- ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
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- ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK.
- ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.
- CONTACT 811' UNDERGROUND UTILITIES LOCATION CENTER PRIOR TO DEMOLITION OF THE SITE.
- REFER TO THE FEMA FLOOD ZONES AND FEMA FLOODWAY AND ADHERE TO STATE REGULATIONS DURING CONSTRUCTION WITHIN THESE ZONES.



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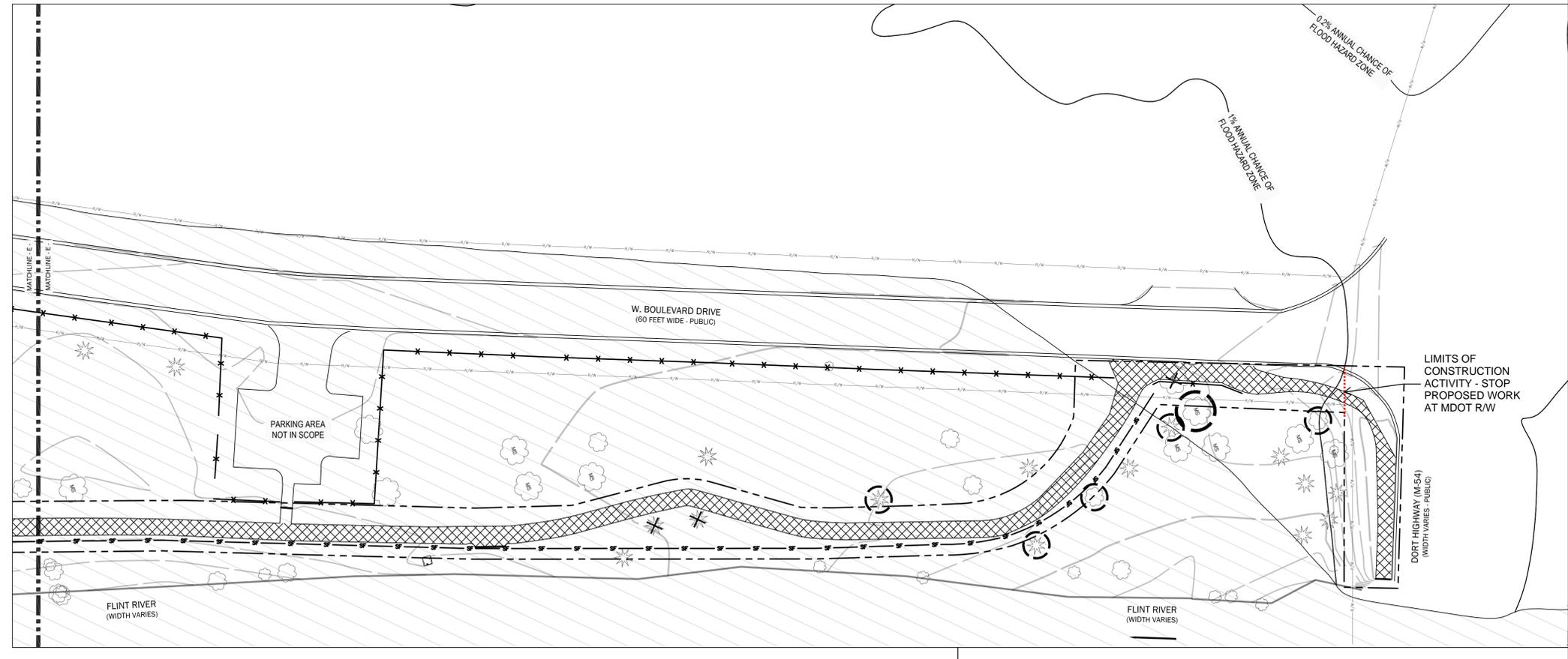
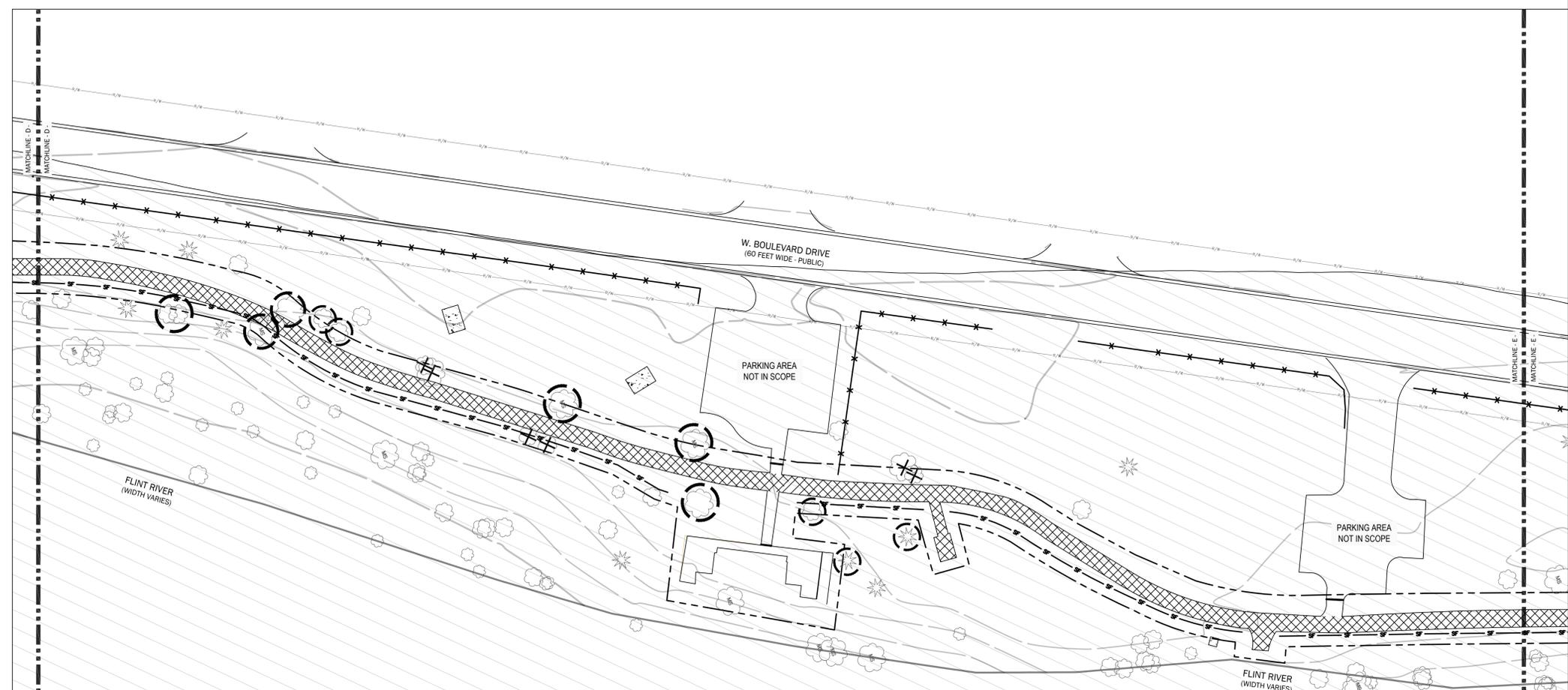
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SHEET TITLE:

DEMOLITION PLAN - C

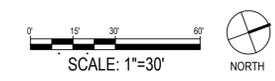
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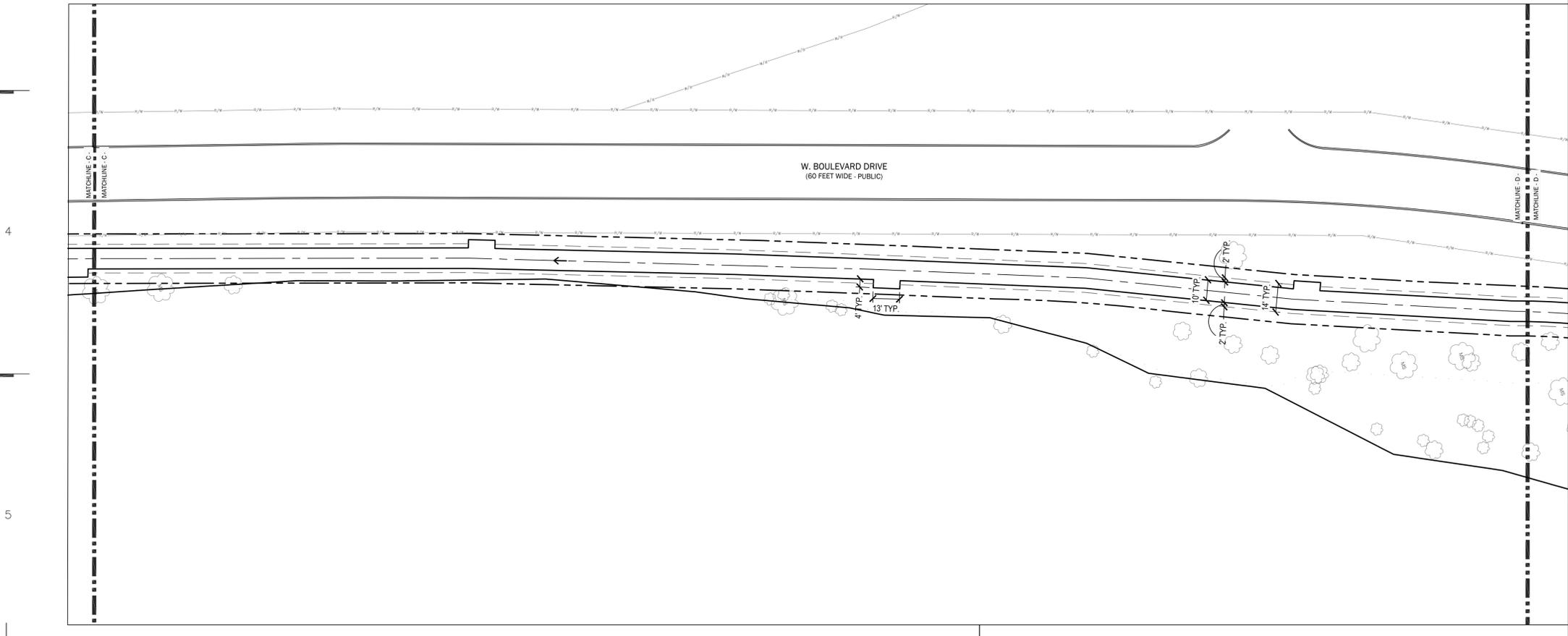
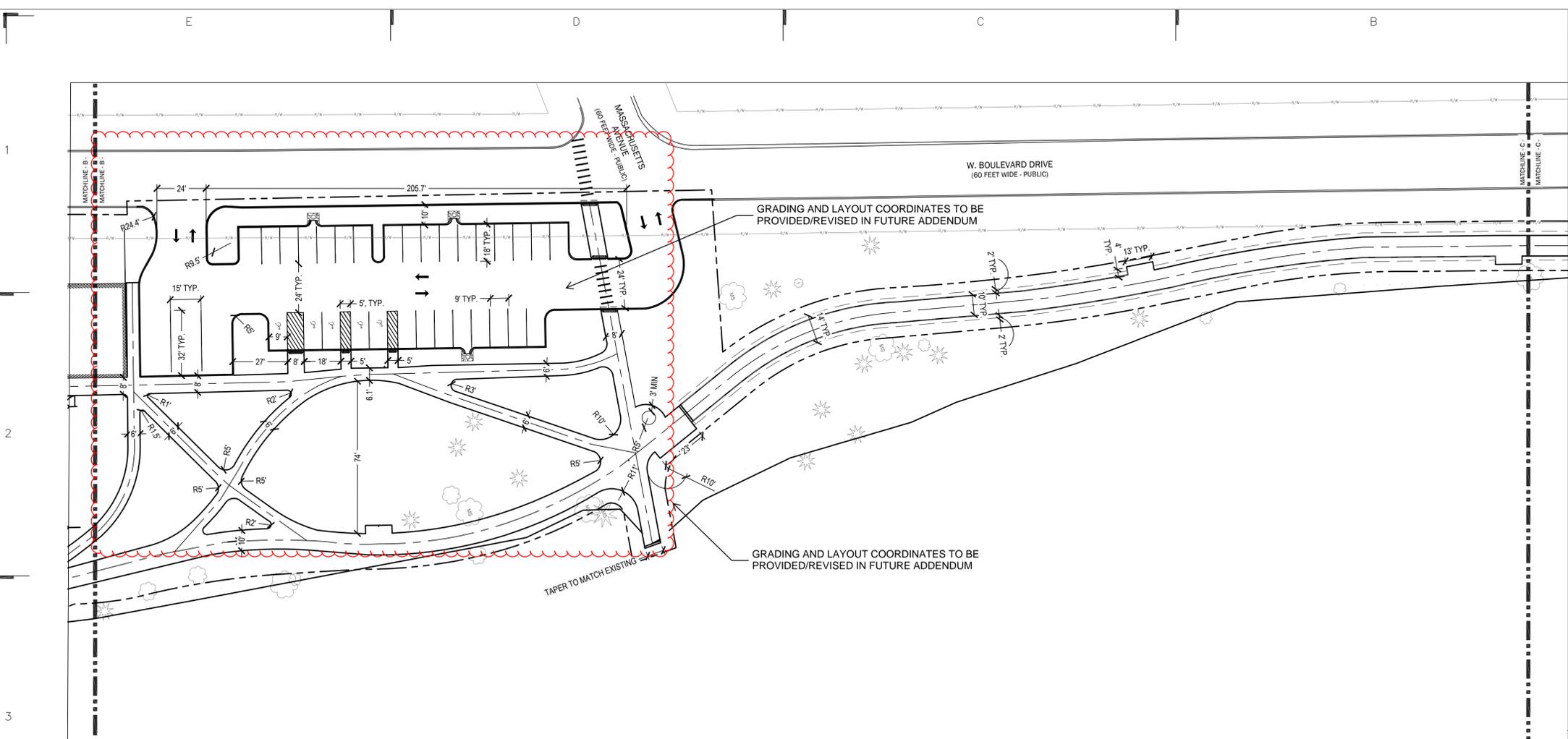
L-102



LEGEND

- LIMITS OF CONSTRUCTION
- PUBLIC RIGHT OF WAY
- EXISTING FENCE, TO REMAIN
- ① L-701 ASPHALT SAWCUT LOCATIONS
- Full Depth Pavement Removal
- ⊗ EXISTING TREE TO REMOVE
- ① L-700 EXISTING TREE TO PROTECT
- ② L-700 SF SILT FENCE
- /// FEMA REGULATORY FLOODWAY





LAYOUT SHEET NOTES

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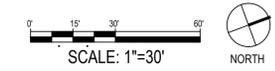
PARKING SCHEDULE

#	TYPE	DIMENSIONS	NOTES
25	PARKING SPACE	18' X 9', 90°	
4	ADA PARKING SPACE	18' X 8', 90°	5' WIDE AISLE
1	VAN ADA PARKING SPACE	18' X 8', 90°	8' WIDE AISLE
3	LARGE VEHICLE PARKING	15' X 30', 90°	

ENTRANCE AISLES TO BE 24' CURB TO CURB; DRIVE AISLE TO BE 24'. SEE DETAILS ON L-703 FOR MDOT STANDARD PAVEMENT STRIPING INFORMATION.

LEGEND

- EXISTING TREE
- LIMITS OF CONSTRUCTION
- PUBLIC RIGHT OF WAY
- EXTENT OF CLEAR ZONE, 2' WIDE ON EITHER SIDE
- PATH CENTER LINE



PROJECT:
ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505

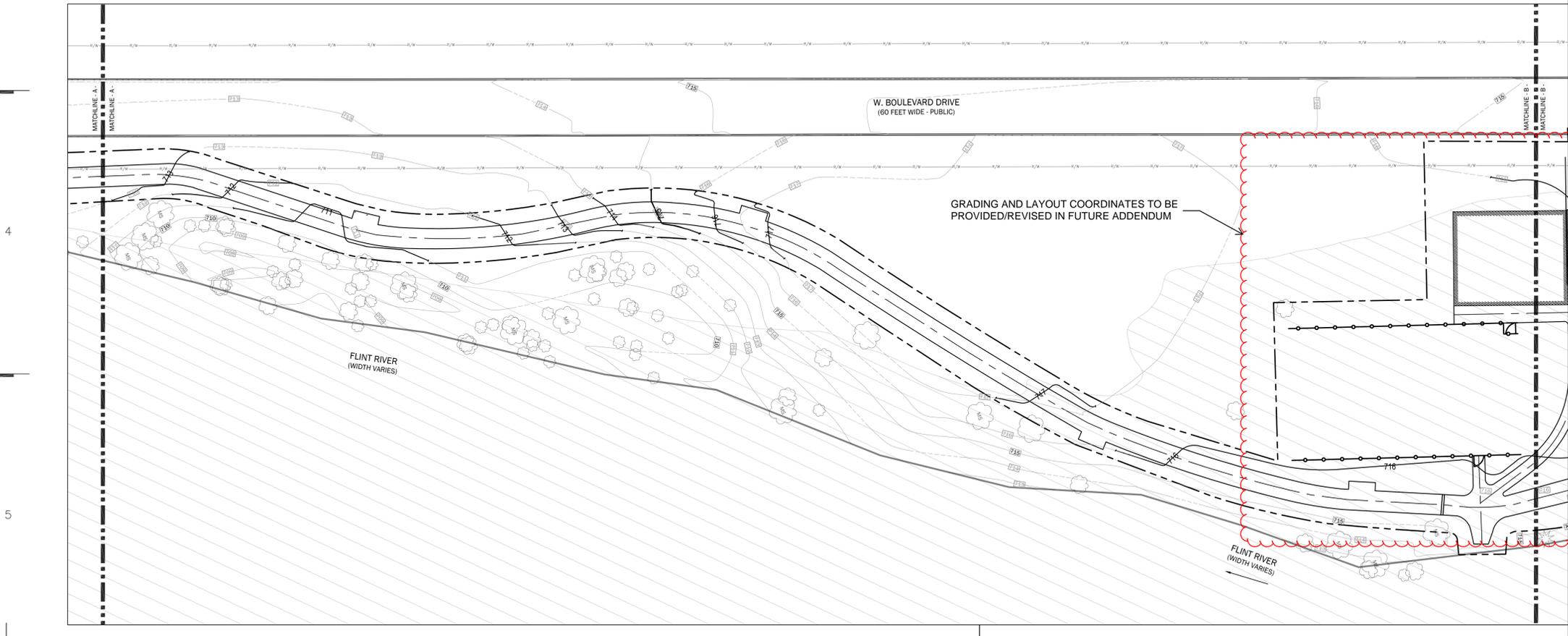
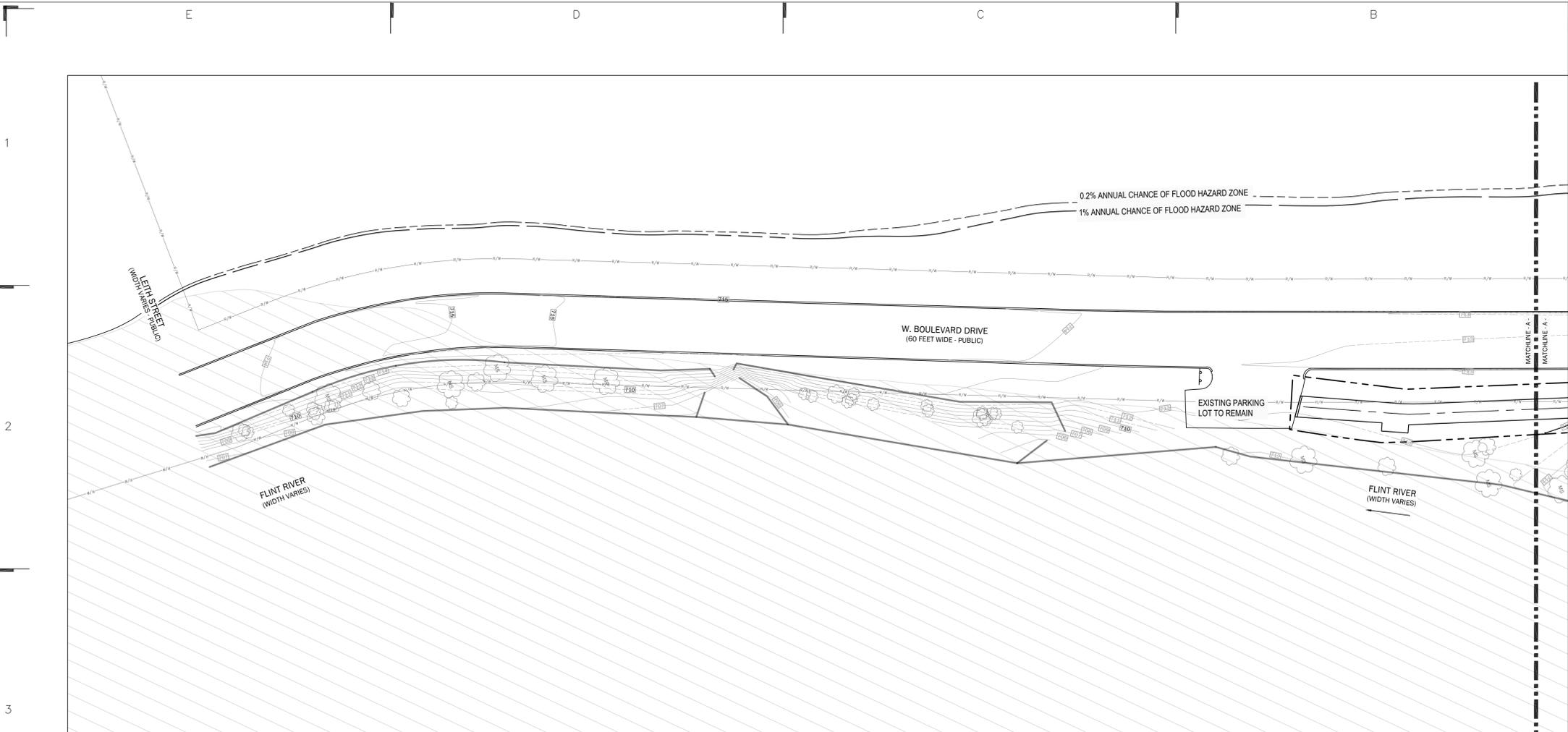
EGLE PERMIT REVIEW	02/14/2025
PERMIT SET DRAFT UPDATES	01/29/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SHEET TITLE:
LAYOUT PLAN

Date: 02.14.2025
Project Number: 240401

SHEET NUMBER:
L-201

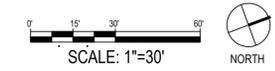


FEMA OVERLAY NOTES

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6. ESTABLISH AND MAINTAIN SITE SECURITY UNTIL PROJECT ACCEPTANCE.
7. USE DIMENSIONS SHOWN ON DRAWINGS FOR LAYOUT OF THE WORK. DO NOT USE SCALE DIMENSIONS FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
8. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
9. TAKE NOTE OF ALL GRADING AND DRAINAGE WAYS AND MAINTAIN THESE DRAIN WAYS FLOWS FREE OF OBSTRUCTIONS.
10. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
11. COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK.
12. CONTACT "811" UNDERGROUND UTILITIES LOCATION CENTER PRIOR TO INSTALLATION OF PLANT MATERIAL AND IRRIGATION SYSTEM.
13. THIS TRACT LIES PARTIALLY IN ZONE "X" (UNSHADED), DESIGNATED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", PARTIALLY IN ZONE "X" (SHADED), DESIGNATED AS "AREAS OF THE 0.2% ANNUAL CHANCE FLOOD; AREAS OF THE 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FORM 1% ANNUAL CHANCE FLOOD", AND PARTIALLY IN ZONE "AE", DEFINED AS "SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 0.1% ANNUAL CHANCE FLOOD EVENT, WHERE THE BASE FLOOD ELEVATIONS ARE DETERMINED", AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM COMMUNITY PANEL NUMBER.
14. 26049C0191D, LATEST AVAILABLE PUBLISHED REVISION DATED SEPTEMBER 25, 2009. THE BASE FLOOD ELEVATION IS 715.
15. REGULATORY FLOODWAY, 1% AND 0.2% ANNUAL CHANCE OF FLOOD HAZARD INFORMATION ARE BASED ON JUNE 27, 2024 EXTRACT OF THE NATIONAL FLOOD HAZARD LAYER FEATURE CLASS S_Fld_Haz_Ar. SOURCE: FEMA, Esri.
16. REFER TO THE FEMA FLOOD ZONES AND FEMA FLOODWAY AND ADHERE TO STATE REGULATIONS DURING CONSTRUCTION WITHIN THESE ZONES.

LEGEND

- EXISTING TREE
- LIMITS OF CONSTRUCTION
- PUBLIC RIGHT OF WAY
- 1% ANNUAL CHANCE OF FLOOD HAZARD ZONE
- 0.2% ANNUAL CHANCE OF FLOOD HAZARD ZONE
- FEMA REGULATORY FLOODWAY
- 710 MAJOR CONTOUR LINES
- 712 MINOR CONTOUR LINES
- 710 EXISTING MAJOR CONTOUR LINES, TO REMAIN
- 712 EXISTING MINOR CONTOUR LINES, TO REMAIN
- BC 715.50 BOTTOM OF CURB
- TC 716 TOP OF CURB



PROJECT:
ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505

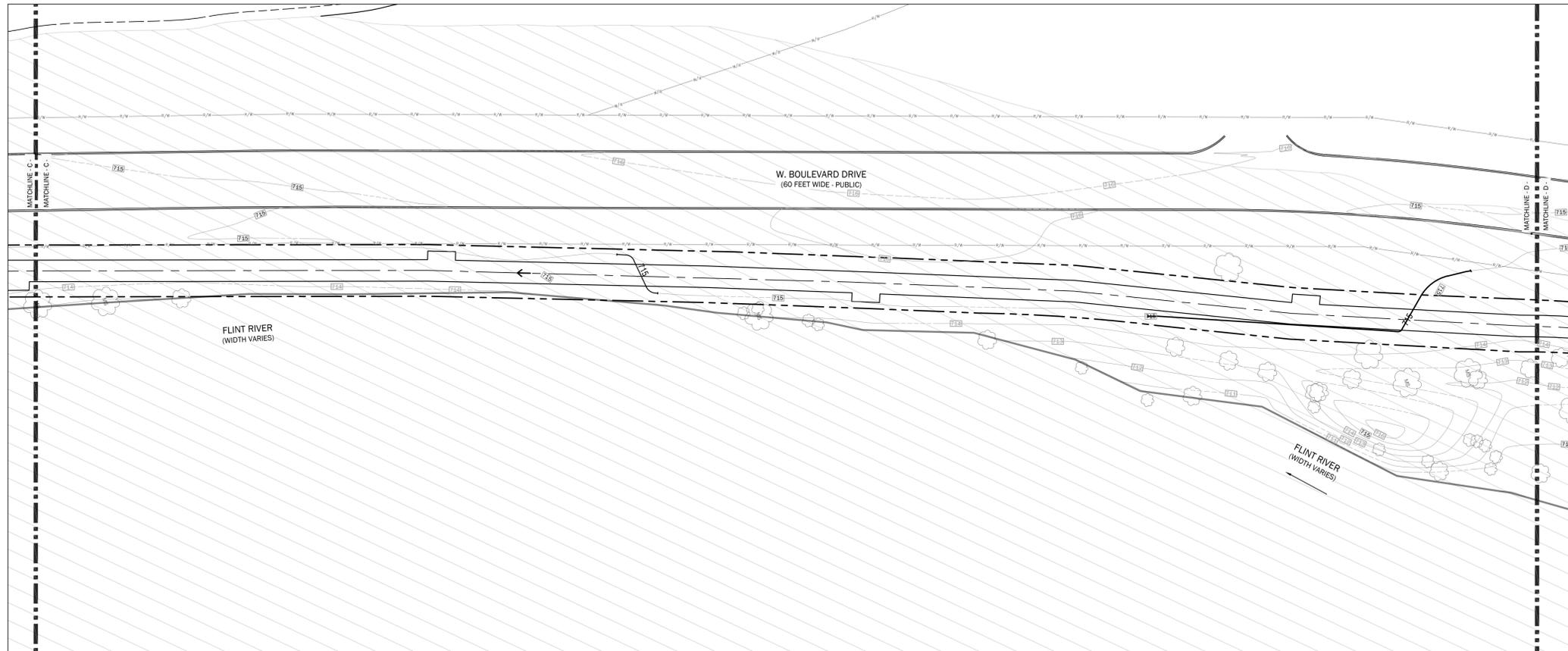
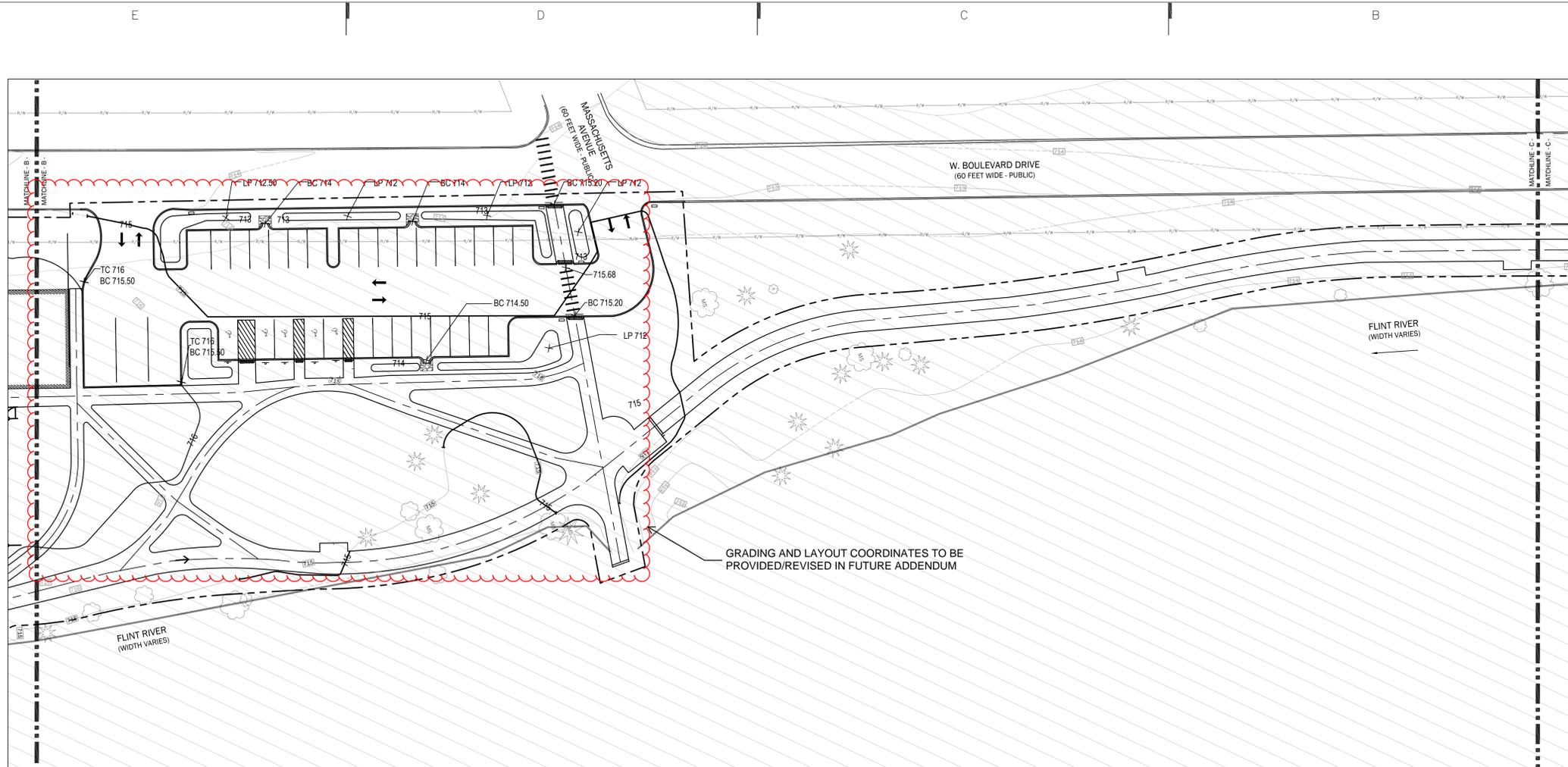
EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SEAL:
 SHEET TITLE:
FEMA OVERLAY PLAN
- A -
REFERENCE ONLY

Date: 02.14.2025
 Project Number: 240401
 SHEET NUMBER:

L-210

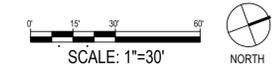


FEMA OVERLAY NOTES

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LEGEND

- EXISTING TREE
- LIMITS OF CONSTRUCTION
- PUBLIC RIGHT OF WAY
- 1% ANNUAL CHANCE OF FLOOD HAZARD ZONE
- 0.2% ANNUAL CHANCE OF FLOOD HAZARD ZONE
- FEMA REGULATORY FLOODWAY
- 710 MAJOR CONTOUR LINES
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- 712 EXISTING MINOR CONTOUR LINES, TO REMAIN
- BC 715.50 BOTTOM OF CURB
- TC 716 TOP OF CURB



PROJECT:
ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505

EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SEAL:

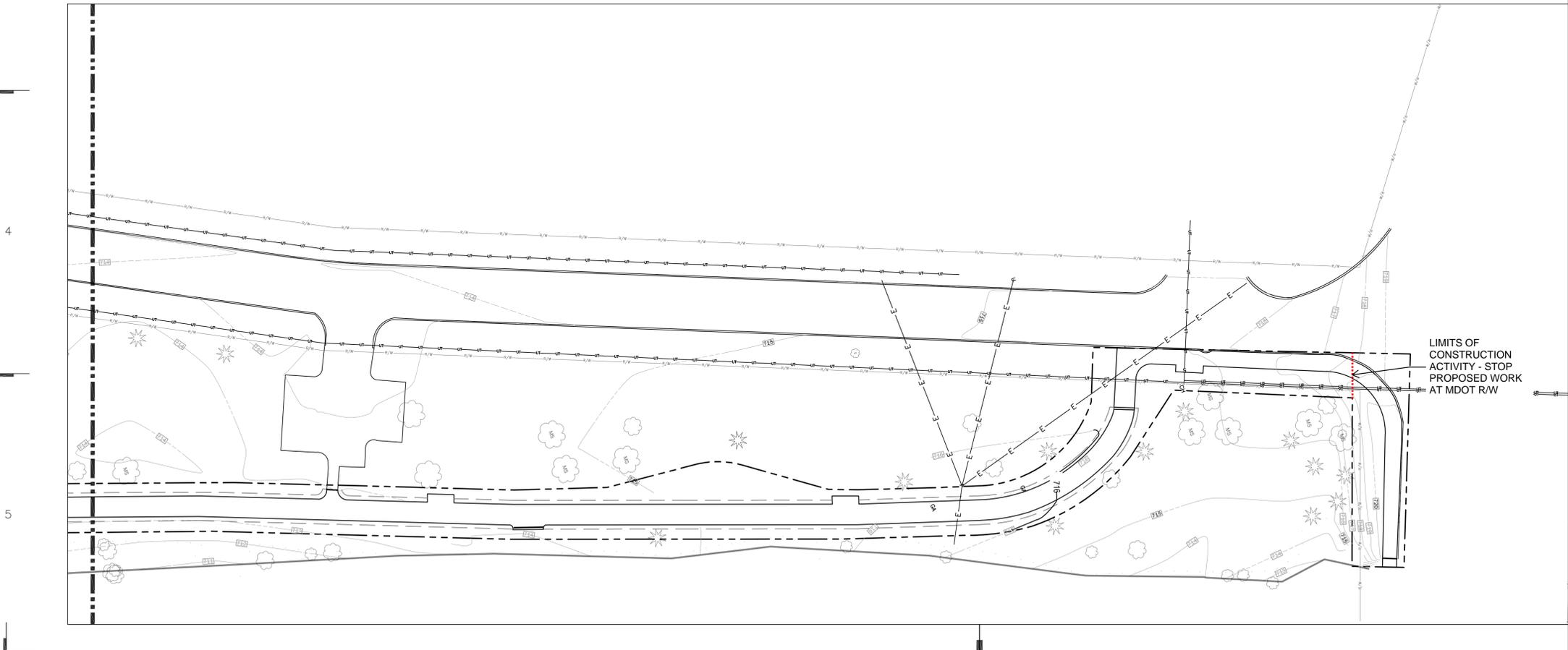
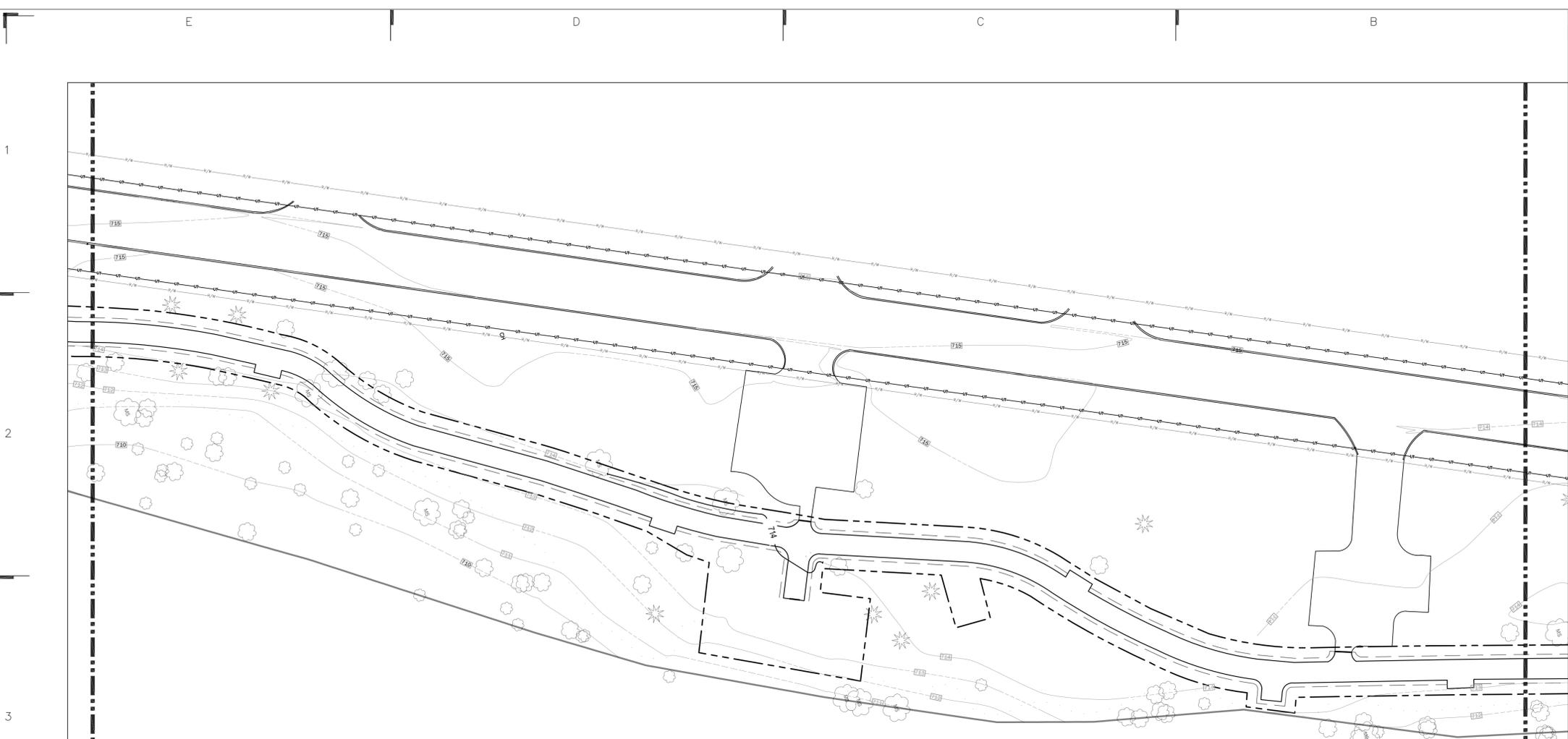
SHEET TITLE:
**FEMA OVERLAY PLAN
- B -
REFERENCE ONLY**

Date: 02.14.2025

Project Number: 240401

SHEET NUMBER:

L-211

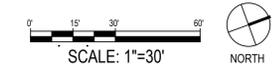


GRADING SHEET NOTES

1. PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE ENGINEER FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
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8. DISPOSE ALL ELEMENTS DESIGNATED FOR REMOVAL IN A LEGAL MANNER. PROVIDE RECEIPTS AND LETTERS FROM DISPOSAL SITES TO OWNER AS REQUIRED BY THE OWNER.
9. PREPARE ALL SUBGRADES IN ACCORDANCE WITH RECOMMENDATIONS OF GEOTECHNICAL ENGINEER. PROVIDE PROOF OF ALL REQUIRED SOIL COMPACTION TO THE OWNER.
10. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
11. COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK.
12. CONTACT "811" UNDERGROUND UTILITIES LOCATION CENTER PRIOR TO INSTALLATION OF PLANT MATERIAL AND IRRIGATION SYSTEM.
13. ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.
14. MAXIMUM SLOPE FOR THE BIKE PATH IS 5% ONLY. DO NOT EXCEED. FOR ALL OTHER AREAS, THE MAXIMUM SLOPE IS 4%. CROSS SLOPES TO BE 2% IN ALL AREAS FOR SITE DRAINAGE. DROP CURBS AND ACCESSIBLE RAMPS TO ALIGN WITH MDOT / STATE OF MICHIGAN STANDARDS.
15. THE GOAL OF THE GRADING PLAN IS TO MAINTAIN THE EXISTING GRADE AS MUCH AS POSSIBLE. DO NOT REGRADE BEYOND WHAT IS INDICATED. FOR ALL PROPOSED GRADES TAPER GENTLY TO MATCH EXISTING GRADES.

LEGEND

- LIMITS OF CONSTRUCTION
- - - - - PUBLIC RIGHT OF WAY
- x - x - EXISTING FENCE, TO REMAIN
- - - - - ELECTRIC LINE
- - - - - UT LINE
- 710 — MAJOR CONTOUR LINES
- 712 — MINOR CONTOUR LINES
- 710 — EXISTING MAJOR CONTOUR LINES, TO REMAIN
- 712 — EXISTING MINOR CONTOUR LINES, TO REMAIN
- 715.50 BOTTOM OF CURB
- 716 TOP OF CURB



PROJECT:
ST. JOHN MEMORIAL TRAIL
 3400 W BOULEVARD DRIVE
 FLINT, MI 48505

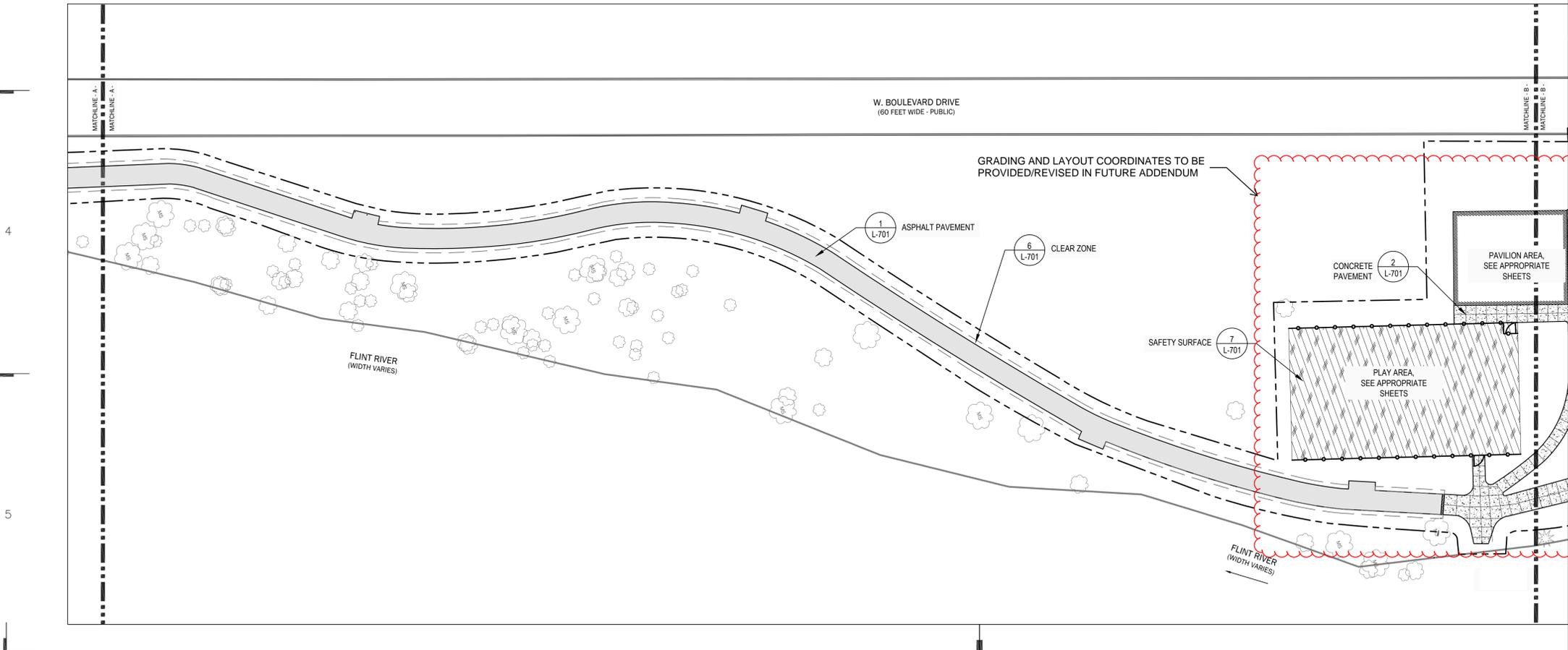
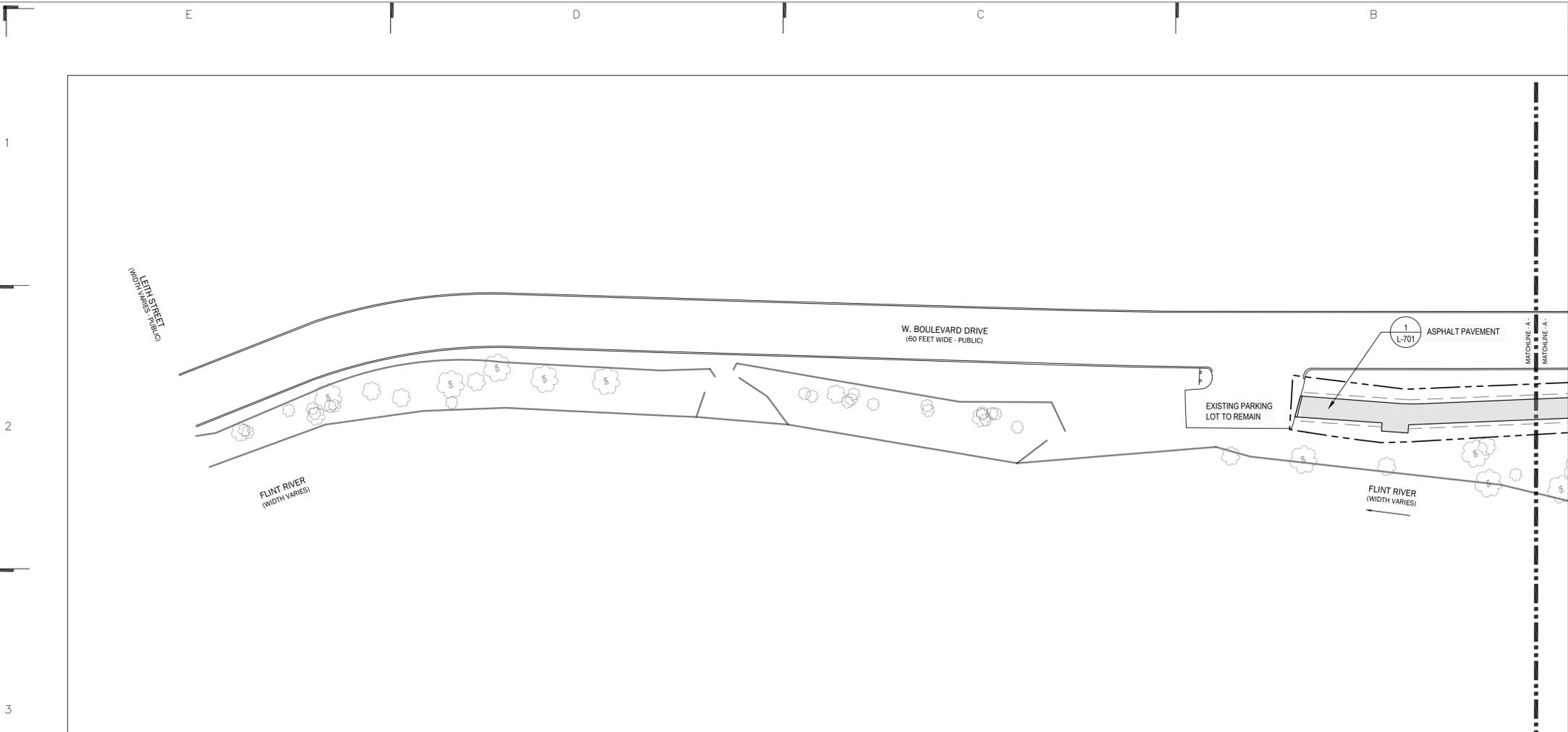
EGLLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SEAL:
 SHEET TITLE:
GRADING PLAN

Date: 02.14.2025
 Project Number: 240401
 SHEET NUMBER:

L-302



MATERIALS SHEET NOTES

- PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE ENGINEER FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
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- COORDINATE CONSTRUCTION OF PENETRATIONS, SLEEVES, VARIATIONS IN THE SLAB ELEVATIONS, DEPRESSED AREAS AND ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS.
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- REFER TO THE FEMA FLOOD ZONES AND FEMA FLOODWAY AND ADHERE TO STATE REGULATIONS DURING CONSTRUCTION WITHIN THESE ZONES.

LEGEND

- EXISTING TREE
- LIMITS OF CONSTRUCTION
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- BRICK CURB TRANSITION
- SAFETY SURFACE
- PLAYGROUND FENCE
- CLEAR ZONE



CUSTOMER:
 PROJECT:
 ST. JOHN MEMORIAL TRAIL
 3400 W BOULEVARD DRIVE
 FLINT, MI 48505

EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SEAL:
 SHEET TITLE:
MATERIALS PLAN

Date: 02.14.2025
 Project Number: 240401
 SHEET NUMBER:

L-400

MATERIALS SHEET NOTES

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**JIM A
STUDIO**

landscape architecture • urban planning •
collective work & responsibility
8045 Linwood Street, Suite 1
Detroit, Michigan 48206
www.jimastudio.com

CONSULTANT:



CUSTOMER:



PROJECT:

ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505

EGLE PERMIT REVIEW	02/14/2025
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SHEET TITLE:

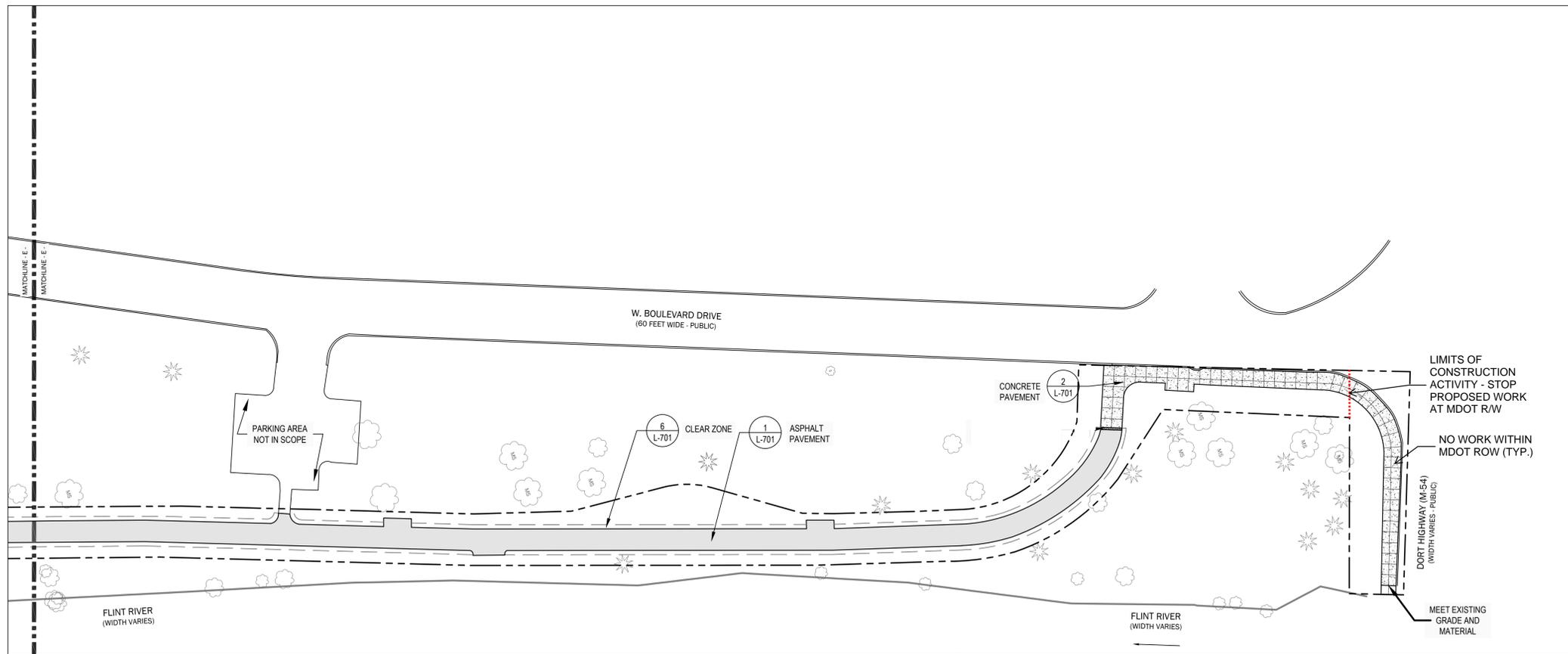
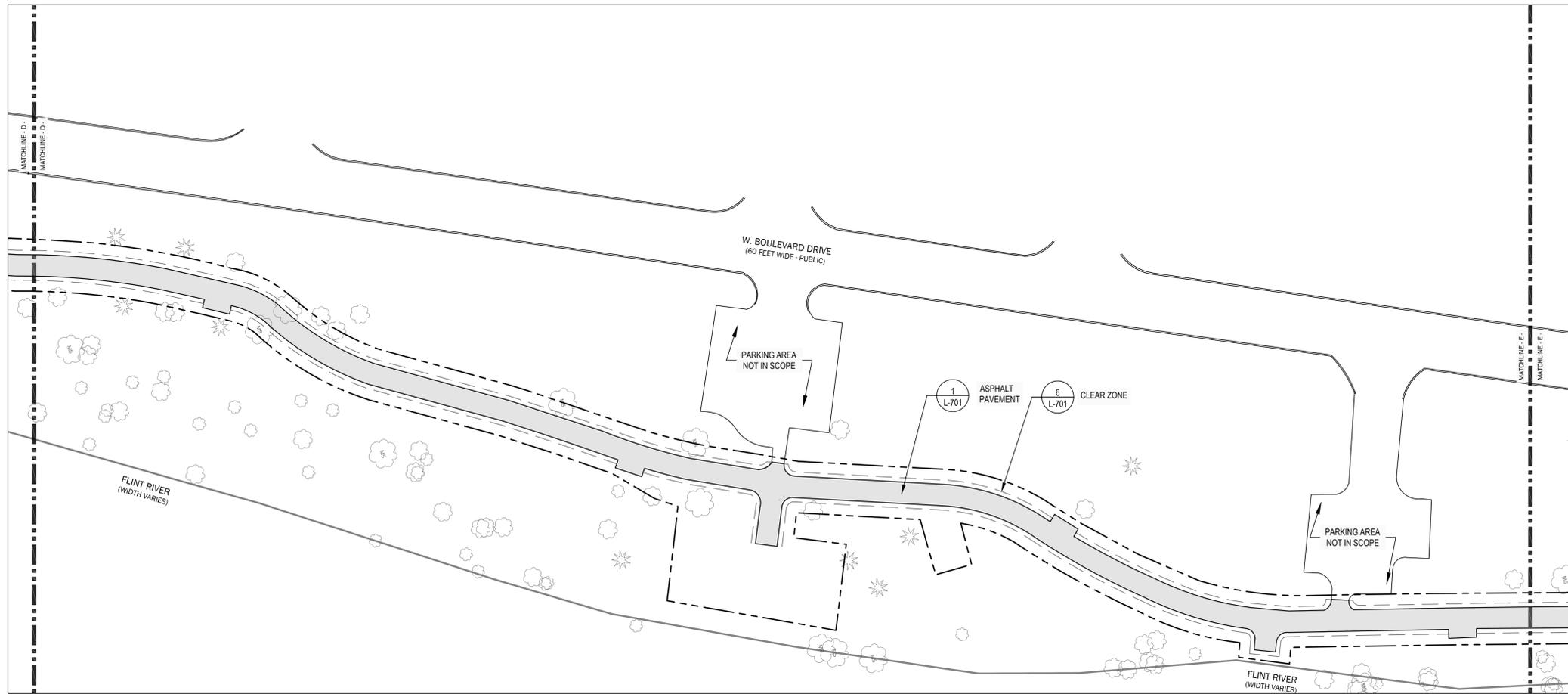
MATERIALS PLAN

Date: 02.14.2025

Project Number: 240401

SHEET NUMBER:

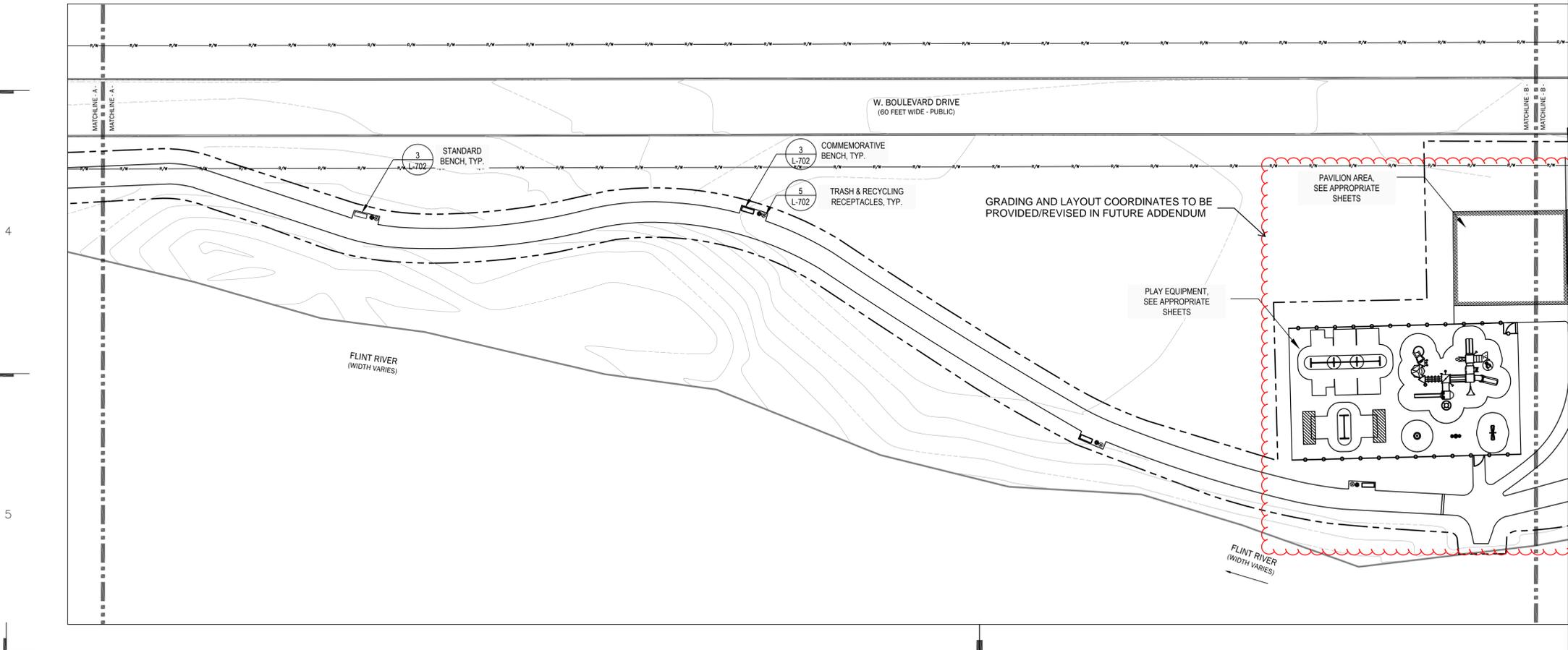
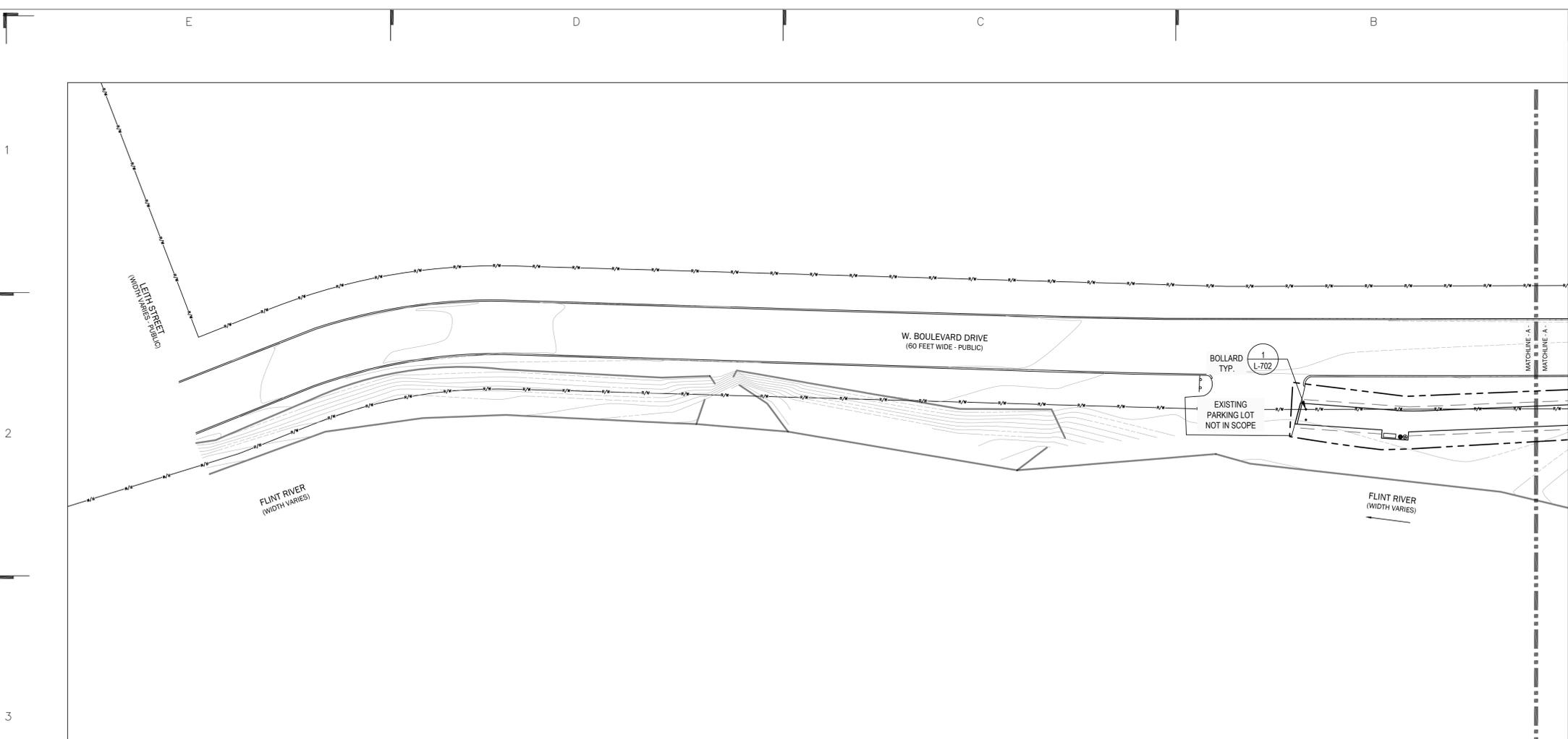
L-402



LEGEND

- EXISTING TREE
- LIMITS OF CONSTRUCTION
- 6 L-701 CLEAR ZONE
- 1 L-701 ASPHALT PAVEMENT
- 2 L-701 CONCRETE PAVEMENT
- 5 L-701 BRICK CURB TRANSITION

0 15 30 60
SCALE: 1"=30'
NORTH



FURNISHING SHEET NOTES

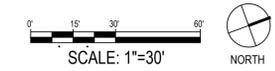
- PRIOR TO START OF PROJECT WORK, VERIFY ALL SITE CONDITIONS AND SUBMIT A PROJECT WORK PLAN TO THE ENGINEER FOR REVIEW AND COMMENT. PRESENT THE WORK PLAN AT THE OWNER'S PRE-CONSTRUCTION MEETING. DO NOT BEGIN PRIOR TO THE 'PRE-CONSTRUCTION MEETING' AND WRITTEN AUTHORIZATION TO PROCEED IS ISSUED BY THE OWNER.
- NOTIFY THE ENGINEER IN WRITING OF ANY IDENTIFIED DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS PRIOR TO THE START OF WORK. DURING PERFORMANCE OF THE WORK, VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND CROSS-CHECK DETAILS AND DIMENSION SHOWN ON THE DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK. IN ALL CASES WHERE A CONFLICT MAY OCCUR, THE ENGINEER SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
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- CONTACT "811" UNDERGROUND UTILITIES LOCATION CENTER PRIOR TO INSTALLATION OF SITE FURNISHINGS.
- ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.
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- REFER TO THE FEMA FLOOD ZONES AND FEMA FLOODWAY AND ADHERE TO STATE REGULATIONS DURING CONSTRUCTION WITHIN THESE ZONES.

FURNISHING SCHEDULE

QTY	QTY	PRODUCT	NOTES
1 L-702	4	VICTOR STANLEY L-89	MATTE BLACK METAL FINISH; 4' HEIGHT
3 L-702	11	VICTOR STANLEY FB-324	MATTE BLACK METAL FINISH; IPE WOOD FINISH
3 L-702	7	VICTOR STANLEY FB-324	MATTE BLACK METAL FINISH; IPE WOOD FINISH; ACCOMMODATE METAL PLAQUE BY OTHERS
5 L-702	5	VICTOR STANLEY EB-36 SD	MATTE BLACK, METAL FINISH
	/	GREAT LAKES RECREATION	SEE APPROPRIATE SHEETS
	/	GREAT LAKES RECREATION	UNDER PAVILION, SEE SHEETS
	/	GREAT LAKES RECREATION	SEE APPROPRIATE SHEETS
2 L-702	4	VICTOR STABLEY BRWA-101	MATTE BLACK METAL FINISH
1 L-703	4	MDOT APPROVED SIGN	INSTALL PER MDOT GUIDELINES
	1	SEE CUSTOMIZED DRAWINGS	INSTALLATION DETAILS BY FLUTTER AND WOW
	1	SEE CUSTOMIZED DRAWINGS	INSTALLATION DETAILS BY FLUTTER AND WOW
11 L-701	5	MDOT APPROVED SIGN	INSTALL PER MDOT GUIDELINES

LEGEND

- LIMITS OF CONSTRUCTION
- PLAYGROUND FENCE
- BOLLARD
- STANDARD PARK BENCH
- COMMEMORATIVE PARK BENCH
- TRASH & RECYCLING RECEPTACLES



CUSTOMER:
PROJECT:
**ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505**

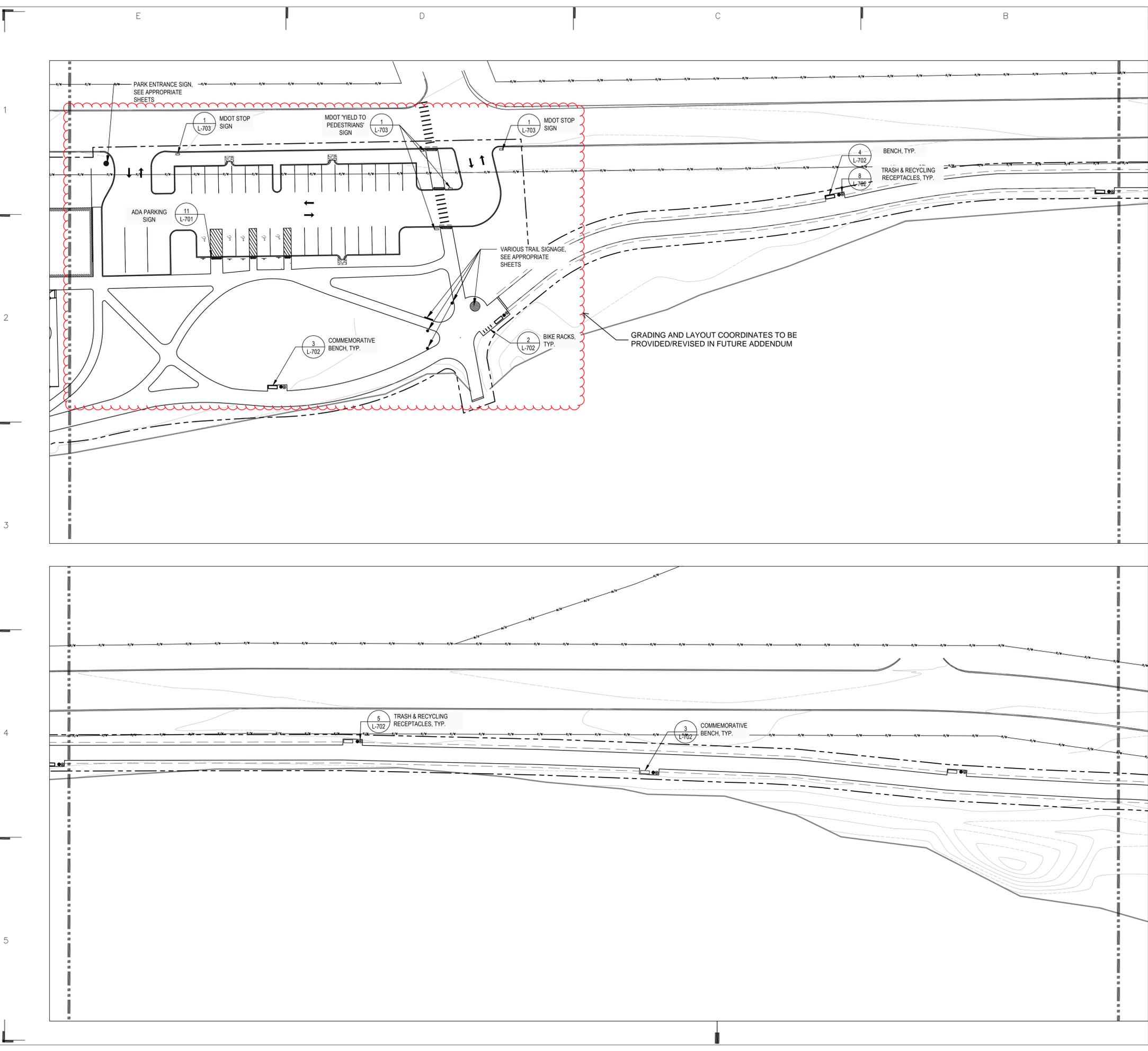
EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/31/2024
REVISION	DATE

SEAL:

SHEET TITLE:
FURNISHING PLAN

Date: 02.14.2025
Project Number: 240401
SHEET NUMBER:

L-500



FURNISHING SHEET NOTES

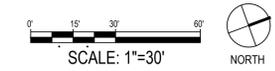
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FURNISHING SCHEDULE

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11	11	VICTOR STANLEY FB-324	MATTE BLACK METAL FINISH; IPE WOOD FINISH
7	7	VICTOR STANLEY FB-324	MATTE BLACK METAL FINISH; IPE WOOD FINISH; ACCOMMODATE METAL PLAQUE BY OTHERS
5	5	VICTOR STANLEY EB-36 SD	MATTE BLACK, METAL FINISH
/	/	GREAT LAKES RECREATION	SEE APPROPRIATE SHEETS
/	/	GREAT LAKES RECREATION	UNDER PAVILION, SEE SHEETS
/	/	GREAT LAKES RECREATION	SEE APPROPRIATE SHEETS
4	4	VICTOR STABLEY BRWA-101	MATTE BLACK METAL FINISH
4	4	MDOT APPROVED SIGN	INSTALL PER MDOT GUIDELINES
1	1	SEE CUSTOMIZED DRAWINGS	INSTALLATION DETAILS BY FLUTTER AND WOW
1	1	SEE CUSTOMIZED DRAWINGS	INSTALLATION DETAILS BY FLUTTER AND WOW
5	5	MDOT APPROVED SIGN	INSTALL PER MDOT GUIDELINES

LEGEND

- LIMITS OF CONSTRUCTION
- PLAYGROUND FENCE
- BOLLARD
- STANDARD PARK BENCH
- COMMEMORATIVE PARK BENCH
- TRASH & RECYCLING RECEPTACLES



CUSTOMER:
PROJECT:
ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505

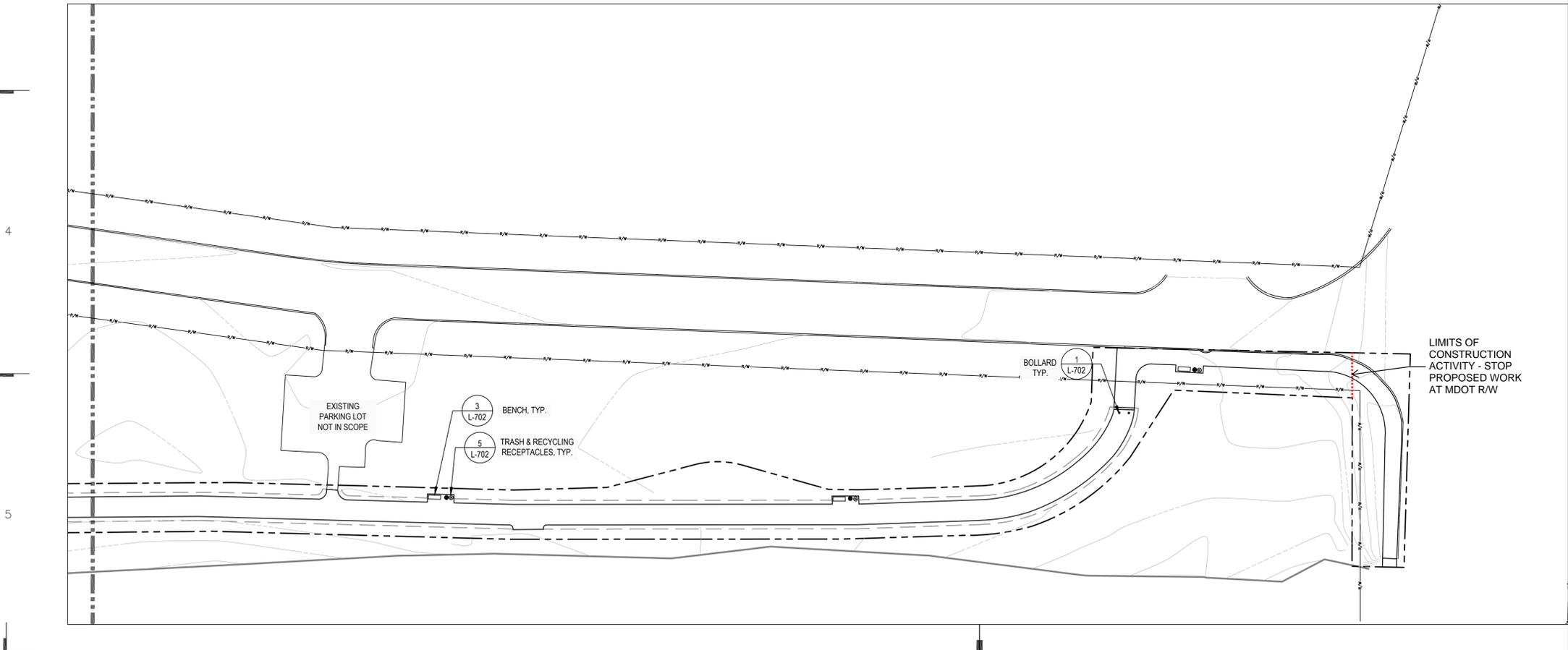
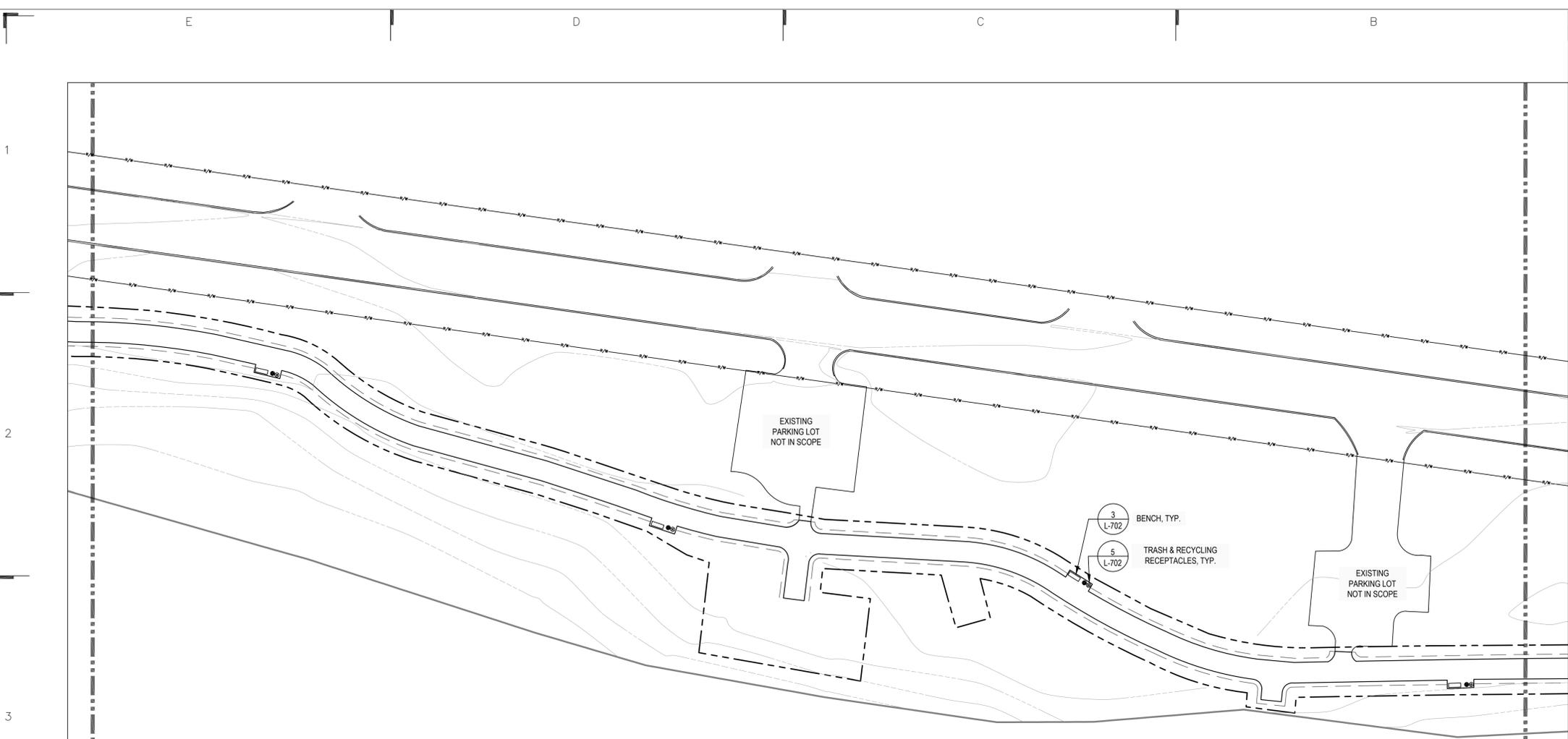
EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/31/2024

REVISION: _____ DATE: _____
SEAL: _____

SHEET TITLE:
FURNISHING PLAN

Date: 02.14.2025
Project Number: 240401
SHEET NUMBER:

L-501



FURNISHING SHEET NOTES

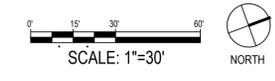
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FURNISHING SCHEDULE

	QTY	QTY	PRODUCT	NOTES
1 L-702	BOLLARD	4	VICTOR STANLEY L-89	MATTE BLACK METAL FINISH; 4' HEIGHT
3 L-702	STANDARD BENCH	11	VICTOR STANLEY FB-324	MATTE BLACK METAL FINISH; IPE WOOD FINISH
3 L-702	COMMEMORATIVE BENCH	7	VICTOR STANLEY FB-324	MATTE BLACK METAL FINISH; IPE WOOD FINISH; ACCOMMODATE METAL PLAQUE BY OTHERS
5 L-702	TRASH RECEPTACLES	5	VICTOR STANLEY EB-36 SD	MATTE BLACK, METAL FINISH
	PAVILION	/	GREAT LAKES RECREATION	SEE APPROPRIATE SHEETS
	PICNIC TABLES	/	GREAT LAKES RECREATION	UNDER PAVILION, SEE SHEETS
	PLAY UNITS	/	GREAT LAKES RECREATION	SEE APPROPRIATE SHEETS
2 L-702	BIKE RACK	4	VICTOR STABLEY BRWA-101	MATTE BLACK METAL FINISH
1 L-703	STOP / YIELD SIGN	4	MDOT APPROVED SIGN	INSTALL PER MDOT GUIDELINES
	PARK ENTRANCE SIGNAGE	/	SEE CUSTOMIZED DRAWINGS	INSTALLATION DETAILS BY FLUTTER AND WOW
	HERITAGE TRAIL SIGNAGE	/	SEE CUSTOMIZED DRAWINGS	INSTALLATION DETAILS BY FLUTTER AND WOW
11 L-701	ADA SIGN	5	MDOT APPROVED SIGN	INSTALL PER MDOT GUIDELINES

LEGEND

- LIMITS OF CONSTRUCTION
- PLAYGROUND FENCE
- BOLLARD
- STANDARD PARK BENCH
- COMMEMORATIVE PARK BENCH
- TRASH & RECYCLING RECEPTACLES



JIMA STUDIO
 landscape architecture • urban planning • collective work & responsibility
 8045 Linwood Street, Suite 1
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 www.jimastudio.com

CONSULTANT:

 A/E COLLABORATIVE

OSBORN ENGINEERING
 30205 Telegraph Road, Suite 200 | Bingham Farms, MI 48025
 (248) 915-4214 | www.osborn-eng.com

Great Lakes recreation

FLUTTER & WOW
 MUSEUM PROJECTS

WTS

CUSTOMER:

PROJECT:
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 FLINT, MI 48505

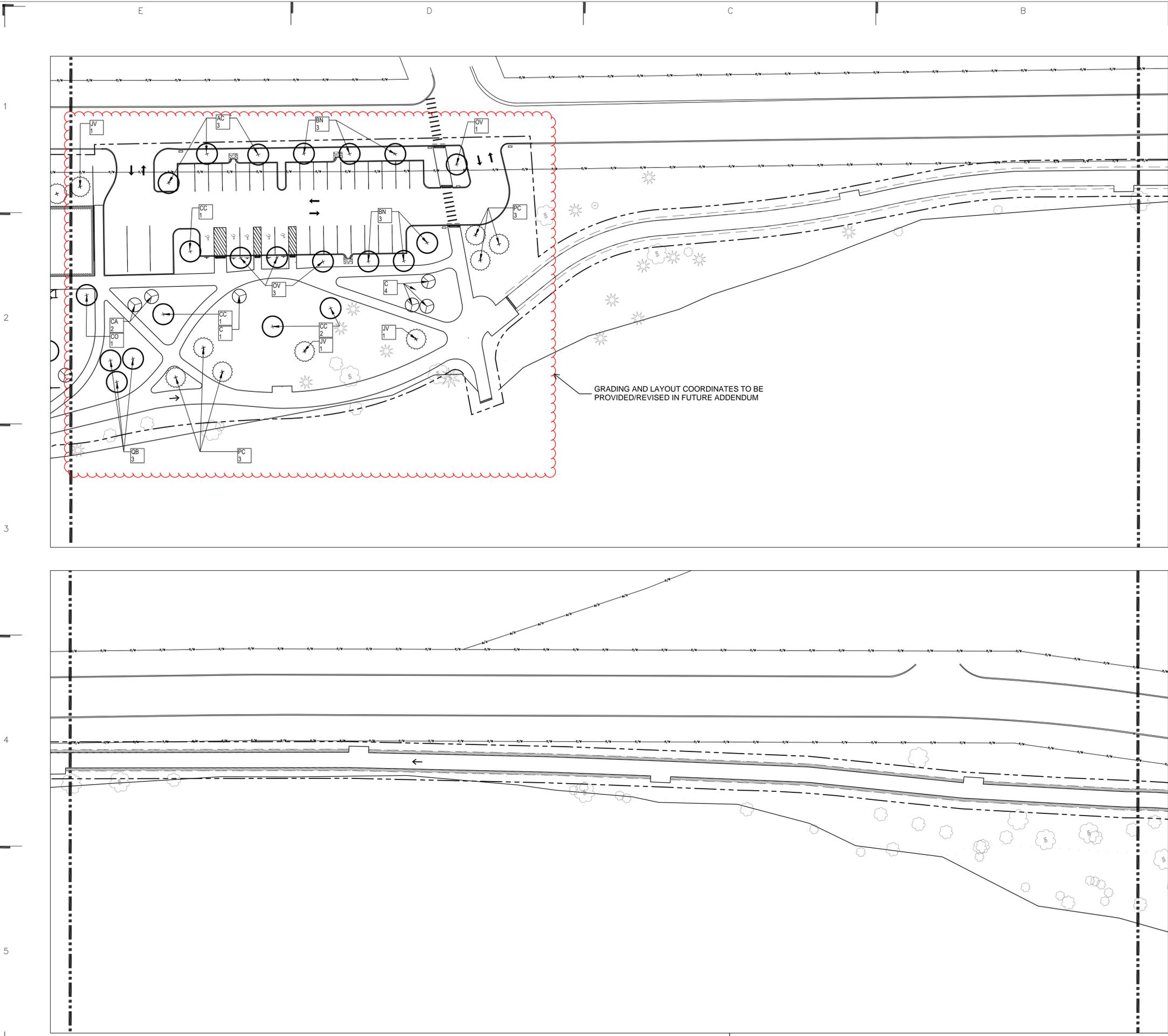
REVISION	DATE

EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/31/2024

SEAL:
 SHEET TITLE:
FURNISHING PLAN

Date: 02.14.2025
 Project Number: 240401
 SHEET NUMBER:

L-502



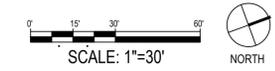
LANDSCAPE SHEET NOTES

- PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION. TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC. CALL MISS DIG (800) 482-7171 A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
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- ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- INDEPENDENT OF NUMERIC QUANTITIES ON DRAWINGS OR IN THE PLANT SCHEDULE, DETERMINE THE PLANT MATERIAL QUANTITIES REQUIRED BY THE PLANS. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER - AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA 'STANDARDS FOR NURSERY STOCK'.
- PRIOR TO INSTALLATION, DEMARCATÉ LAYOUT OF ALL PLANTING BEDS, SEED AREAS, AND INDIVIDUAL TREES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. INCLUDE PERENNIAL GROUPINGS BY SPECIES FOR INTERNAL LAYOUTS. FLAGGING, OR STAKES MAY BE USED TO DELINEATE LOCATIONS SCALED FROM THE PLANS. THE ENGINEER WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAY MAKE MINOR ADJUSTMENTS AS NECESSARY. SUCH ADJUSTMENTS WILL BE AT NO ADDITIONAL COST TO THE OWNER.
- SHOVEL-CUT PLANTING BED EDGES UNLESS LABELED OTHERWISE. ADD 2 INCHES OF MULCH ON ALL PLANTING BEDS. KEEP MULCH 4 INCHES FROM TREE TRUNKS AND SHRUB CROWNS.
- INSTALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING ACTIVITIES. THERE ARE NO REGULATED WOODLAND TREES PROXIMATE TO THE PROPOSED SITE CONSTRUCTION. MAINTAIN GENERAL PROTECTION AROUND EXISTING TREES. NO EQUIPMENT OR DEBRIS TO BE STORED NEAR THESE TREES.
- NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN PROPOSED GRADES AND EXISTING SITE ELEVATIONS. ANY AREAS OF POOR DRAINAGE OR INADEQUATE DRAINAGE FROM PROPOSED IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL BE MODIFIED AS REQUIRED AND APPROVED AT NO ADDITIONAL COST TO THE OWNER.
- ALL PLANTINGS SHALL BE PLANTED DURING APPROPRIATED PLANTING SEASONS, AS RECOMMENDED BY ANLA FOR THIS TEMPERATE ZONE. IT IS PREFERRED THAT PLANTING OCCUR DURING EITHER THE SPRING SEASON (APRIL - MID-JUNE) OR THE FALL SEASON (SEPTEMBER - MID-NOVEMBER), WHERE TEMPERATURES REMAIN BETWEEN 40-70 DEGREES FAHRENHEIT. THIS WILL ALLOW SUFFICIENT TIME FOR PLANT STABILIZATION AND GERMINATION AND LIMIT SHOCK ASSOCIATED TO TRANSPLANTATION.
- GENERAL CONTRACTOR SELECTED TO PERFORM THE LANDSCAPE WORK FOR THIS SITE MUST INSTALL AND GUARANTEE ALL MATERIALS FOR A MINIMUM OF 1 YEARS. THIS INCLUDES A MINIMUM OF A 90 CONSECUTIVE DAY WATERING PERIOD FROM THE TIME OF FULL INSTALLATION TO ENSURE THE ESTABLISHMENT OF ALL PLANTS INSTALLED SAVE DAYS OF ADEQUATE RAIN. WATERING PERIODS MAY OVERLAP DEPENDENT ON PLANTING SEASON SELECTED. NO IRRIGATION PLAN IS PROPOSED AS SELECTED NATIVE PLANTS ARE ACCLIMATED TO THE LOCAL CLIMATE. AFTER ESTABLISHMENT, ADDITIONAL WATERING WILL BE THE RESPONSIBILITY OF THE OWNER. EXISTING DRAINAGE TO REMAIN IN PLACE.
- ADD GRASS SEED TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND THE APPROXIMATED LIMITS OF CONSTRUCTION INDICATED ON THE DRAWINGS. COVER WITH HAY UNTIL STABILIZATION. REFER TO SHEET L XXX FOR SEED MIXES.
- ALL PLANTINGS SELECTED SHALL BE NORTHERN NURSERY GROWN, NO.1 GRADE, TO SUPPORT LOCAL SUSTAINABILITY GOALS. IT IS PREFERRED THAT ALL PLANT SELECTION COME FROM WITHIN THE STATE OF MICHIGAN.
- ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.
- SEE DETAIL SHEETS FOR FULL PLANTING SCHEDULE.
- REFER TO THE FEMA FLOOD ZONES AND FEMA FLOODWAY AND ADHERE TO STATE REGULATIONS DURING CONSTRUCTION WITHIN THESE ZONES.

GRADING AND LAYOUT COORDINATES TO BE PROVIDED/REVISED IN FUTURE ADDENDUM

LEGEND

- EXISTING TREE
- DECIDUOUS TREE
- EVERGREEN TREE
- ORNAMENTAL TREE



JIMA STUDIO
 landscape architecture • urban planning • collective work & responsibility
 8045 Linwood Street, Suite 1
 Detroit, Michigan 48206
 www.jimastudio.com

CONSULTANT:

AVE COLLABORATIVE

OSBORN ENGINEERING
 30205 Telegraph Road, Suite 200 | Brighton Farms, MI 48025
 (248) 915-4214 | www.osborn-eng.com

Great Lakes recreation

FLUTTER & WOW
 MUSCITY OF FINE CTS
 1101 SOUTH SAGINAW STREET

WTS

ST. JOHN MEMORIAL TRAIL

 3400 W BOULEVARD DRIVE
 FLINT, MICHIGAN 48505

PROJECT:
ST. JOHN MEMORIAL TRAIL
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EGLE PERMIT REVIEW	02/14/2025
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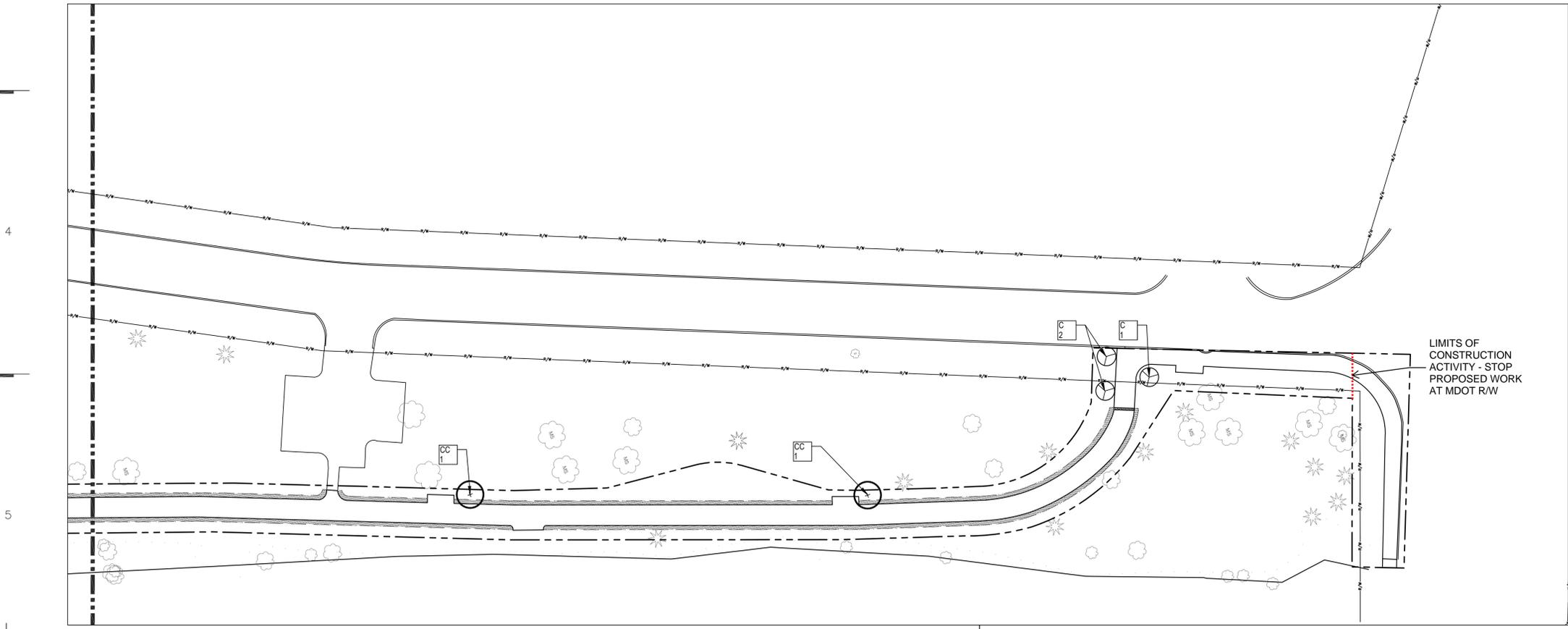
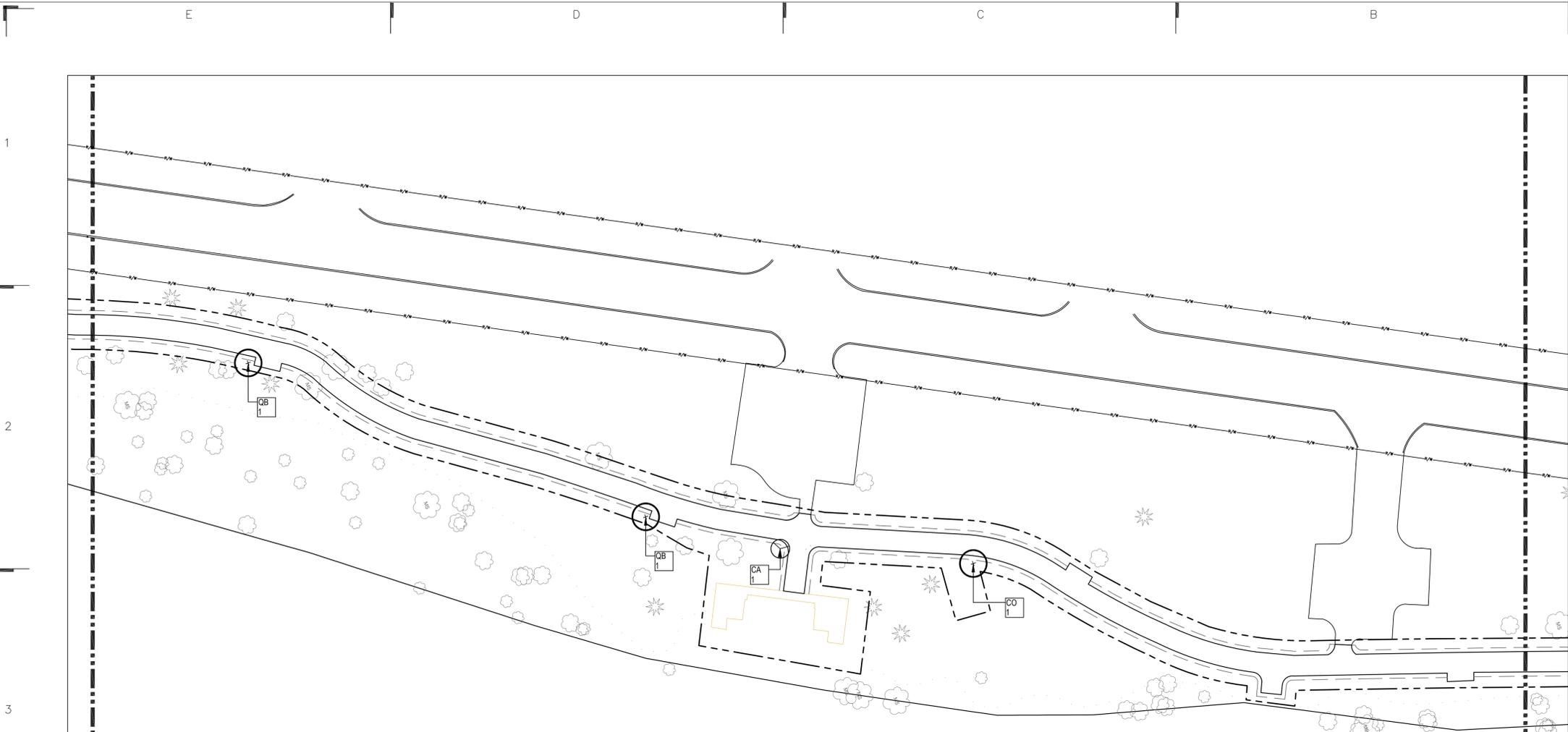
REVISION	DATE

SEAL:

SHEET TITLE:
TREE PLAN

Date: 02.14.2025
 Project Number: 240401

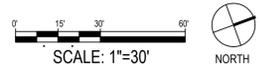
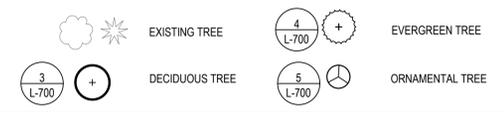
SHEET NUMBER:
L-601



LANDSCAPE SHEET NOTES

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- NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN PROPOSED GRADES AND EXISTING SITE ELEVATIONS. ANY AREAS OF POOR DRAINAGE OR INADEQUATE DRAINAGE FROM PROPOSED IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL BE MODIFIED AS REQUIRED AND APPROVED AT NO ADDITIONAL COST TO THE OWNER.
- ALL PLANTINGS SHALL BE PLANTED DURING APPROPRIATED PLANTING SEASONS, AS RECOMMENDED BY ANLA. FOR THIS TEMPERATE ZONE, IT IS PREFERRED THAT PLANTING OCCUR DURING EITHER THE SPRING SEASON (APRIL - MID-JUNE) OR THE FALL SEASON (SEPTEMBER - MID-NOVEMBER), WHERE TEMPERATURES REMAIN BETWEEN 40-70 DEGREES FAHRENHEIT. THIS WILL ALLOW SUFFICIENT TIME FOR PLANT STABILIZATION AND GERMINATION AND LIMIT SHOCK ASSOCIATED TO TRANSPLANTATION.
- GENERAL CONTRACTOR SELECTED TO PERFORM THE LANDSCAPE WORK FOR THIS SITE MUST INSTALL AND GUARANTEE ALL MATERIALS FOR A MINIMUM OF 1 YEARS. THIS INCLUDES A MINIMUM OF A 90 CONSECUTIVE DAY WATERING PERIOD FROM THE TIME OF FULL INSTALLATION TO ENSURE THE ESTABLISHMENT OF ALL PLANTS INSTALLED SAVE DAYS OF ADEQUATE RAIN. WATERING PERIODS MAY OVERLAP DEPENDENT ON PLANTING SEASON SELECTED. NO IRRIGATION PLAN IS PROPOSED AS SELECTED NATIVE PLANTS ARE ACCLIMATED TO THE LOCAL CLIMATE. AFTER ESTABLISHMENT, ADDITIONAL WATERING WILL BE THE RESPONSIBILITY OF THE OWNER. EXISTING DRAINAGE TO REMAIN IN PLACE.
- ADD GRASS SEED TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND THE APPROXIMATED LIMITS OF CONSTRUCTION INDICATED ON THE DRAWINGS. COVER WITH HAY UNTIL STABILIZATION. REFER TO SHEET L XXX FOR SEED MIXES.
- ALL PLANTINGS SELECTED SHALL BE NORTHERN NURSERY GROWN. NO.1 GRADE. TO SUPPORT LOCAL SUSTAINABILITY GOALS, IT IS PREFERRED THAT ALL PLANT SELECTION COME FROM WITHIN THE STATE OF MICHIGAN.
- ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.
- SEE DETAIL SHEETS FOR FULL PLANTING SCHEDULE.
- REFER TO THE FEMA FLOOD ZONES AND FEMA FLOODWAY AND ADHERE TO STATE REGULATIONS DURING CONSTRUCTION WITHIN THESE ZONES.

LEGEND



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 landscape architecture • urban planning
 collective work & responsibility
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 30205 Telegraph Road, Suite 200 | Brighton Farms, MI 48015
 (248) 915-4214 | www.osborn-eng.com

Great Lakes recreation

FLUTTER & WOW
 MUSICALITY OF FINE ARTS
 1101 SOUTH SAGINAW STREET
 FLINT, MICHIGAN 48802

WTS

ST. JOHN MEMORIAL TRAIL

 3800 W. BOULEVARD DRIVE
 FLINT, MICHIGAN 48805
 1855

PROJECT:
 ST. JOHN MEMORIAL TRAIL
 3400 W BOULEVARD DRIVE
 FLINT, MI 48505

EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SEAL:

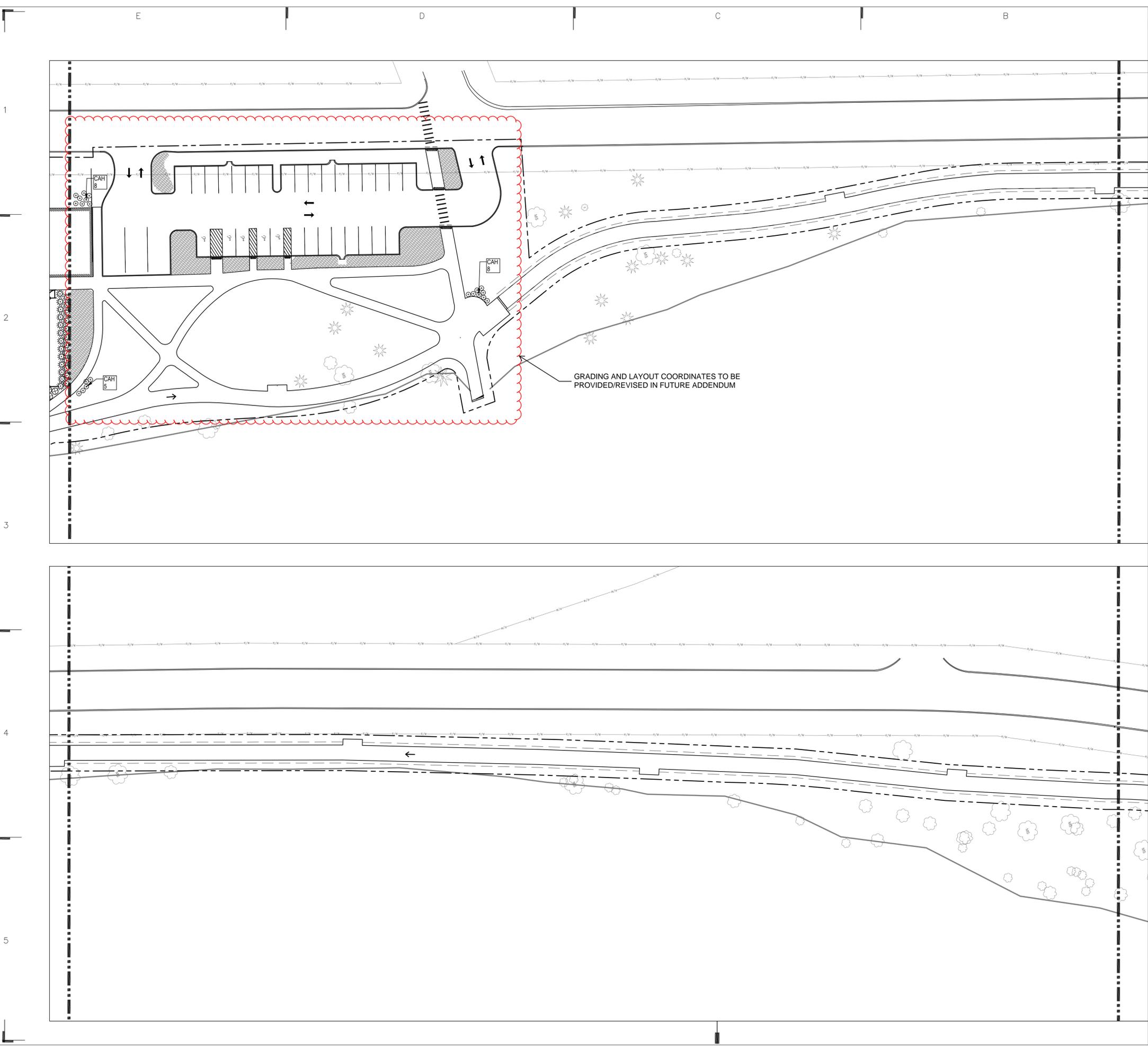
 SHEET TITLE:

TREE PLAN

Date: 02.14.2025
 Project Number: 240401

SHEET NUMBER:

L-602



LANDSCAPE SHEET NOTES

- PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION. TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC. CALL MISS DIG (800) 482-7171 A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- USE DIMENSIONS SHOWN ON DRAWINGS FOR LAYOUT OF THE WORK. DO NOT USE SCALE DIMENSIONS FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS. VERIFY LOCATIONS IN FIELD WITH ENGINEER. DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION.
- DISPOSE ALL ELEMENTS DESIGNATED FOR REMOVAL IN A LEGAL MANNER. PROVIDE RECEIPTS AND LETTERS FROM DISPOSAL SITES TO OWNER AS REQUIRED BY THE OWNER. COORDINATE WORK OF SUBCONTRACTORS AND ALL OTHER CONTRACTORS TO ENSURE ORDERLY AND EFFICIENT COMPLETIONS OF ALL WORK.
- ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- INDEPENDENT OF NUMERIC QUANTITIES ON DRAWINGS OR IN THE PLANT SCHEDULE, DETERMINE THE PLANT MATERIAL QUANTITIES REQUIRED BY THE PLANS. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER - AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA 'STANDARDS FOR NURSERY STOCK'.
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LEGEND

- EXISTING TREE
- LIMITS OF CONSTRUCTION
- PUBLIC RIGHT OF WAY
- DECIDUOUS SHRUBS
- MEADOW PERENNIAL MIX

- 7 L-700
- 8 L-700



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CUSTOMER:

PROJECT:
ST. JOHN MEMORIAL TRAIL
 3400 W BOULEVARD DRIVE
 FLINT, MI 48505

EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SHEET TITLE:
SHRUB AND PERENNIAL PLANTING PLAN

Date: 02.14.2025
 Project Number: 240401

SHEET NUMBER:
L-611

LANDSCAPE SHEET NOTES

- PRIOR TO THE COMMENCEMENT OF WORK, VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY CONSTRUCTION AND TAKE RESPONSIBILITY FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF CONSTRUCTION. TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION, INCLUDING DAMAGES TO UTILITIES, WALKS, WALLS, DRIVES, CURBS, ETC. CALL MISS DIG (800) 482-7171 A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
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LEGEND

- EXISTING TREE
- LIMITS OF CONSTRUCTION
- PUBLIC RIGHT OF WAY
- DECIDUOUS SHRUBS
- MEADOW PERENNIAL MIX
- FOREST EDGE PERENNIAL MIX

LIMITS OF CONSTRUCTION ACTIVITY - STOP PROPOSED WORK AT MDTOT R/W



PROJECT:
ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505

EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SEAL:

SHEET TITLE:

SHRUB AND PERENNIAL PLANTING PLAN

Date: 02.14.2025

Project Number: 240401

SHEET NUMBER:

L-612

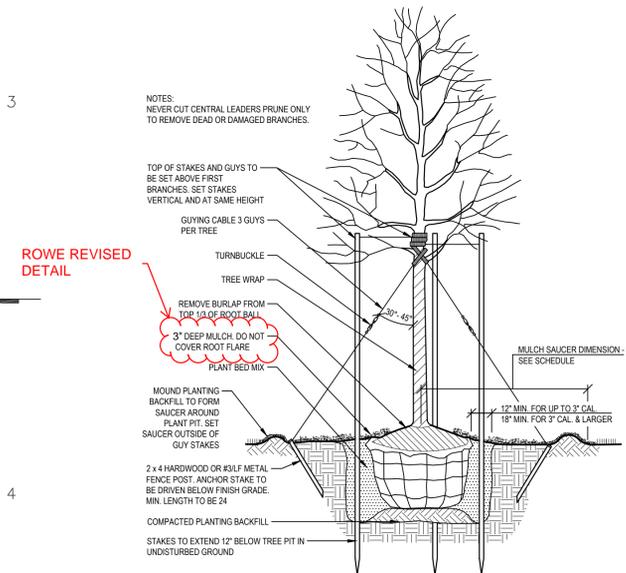
TYPE	SYM	QTY	ID	BOTANIC NAME	COMMON NAME	SIZE	SPACING	REMARKS
DECIDUOUS TREES	+	15	CC	CARYA CORDIFORMIS	BITTERNUT HICKORY	2.5" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
		3	CO	CELTIS OCCIDENTALIS	COMMON HACKBERRY	2.5" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
		12	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	2.5" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
		3	AF	ACER 'FREEMANII' JEDDERSRED	FREEMAN MAPLE AUTUMN BLAZE	2.5" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
		6	BN	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	2.5" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
		4	OV	Ostrya virginiana	AMERICAN HOP HORNBEAM	2.5" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
CONIFEROUS TREES	+	8	PC	PICEA MARIANA	BLACK SPRUCE	2.5" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
		7	JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	2.5" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
ORNAMENTAL TREES	+	9	C	CERCIS CANADENSIS 'APPALACHIAN RED'	'APPALACHIAN RED' EASTERN REDBUD	1" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
		5	CA	CORNUS ALTERNIFOLIA	PAGODA DOGWOOD	1" CAL.	SEE PLAN	FULL, WELL ROOTED, SINGLE LEADER, B+B
SHRUBS	+	13	PP	PICEA PUNGENS 'GLOBOSA'	DWARF SPRUCE 'GLOBOSA'	18-24"	SEE PLAN	FULL, WELL ROOTED, B+B
		28	HQ	HYDRANGEA QUERCIFOLIA 'GATSBY GAL'	'GATSBY GAL' OAKLEAF HYDRANGEA	18-24"	SEE PLAN	FULL, WELL ROOTED, B+B
		29	CAH	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	'HUMMINGBIRD' DWARF SUMMERSWEET	18-24"	SEE PLAN	FULL, WELL ROOTED, B+B
		50	TO	THUJA OCCIDENTALIS 'LITTLE GIANT'	'LITTLE GIANT' SHRUB ARBORVITAE	#5 CONT.	SEE PLAN	FULL, WELL ROOTED, B+B
MEADOW PERENNIALS	+	-	AT	ASCLEPIAS TUBEROSA	BUTTERFLY WEED	#1 CONT.	1' O.C.	FULL, WELL ROOTED, CONTAINER
		-	PH	PENSTEMON HIRSUTUS	HAIRY BEARDTONGUE	#1 CONT.	1' O.C.	FULL, WELL ROOTED, CONTAINER
		-	OS	ONOCLEA SENSIBILIS	SENSITIVE FERN	#1 CONT.	1' O.C.	FULL, WELL ROOTED, CONTAINER
		-	JE	JUNCUS EFFUSUS	SOFT STEM RUSH	#1 CONT.	1' O.C.	FULL, WELL ROOTED, CONTAINER
		-	AC	ANEMONE CANADENSIS	CANADA ANEMONE	#1 CONT.	1' O.C.	FULL, WELL ROOTED, CONTAINER
FOREST EDGE PERENNIALS	+	70	GM	GERANIUM MACULATUM	WILD GERANIUM	#1 CONT.	18" O.C.	FULL, WELL ROOTED, CONTAINER
		60	IV	IRIS VERSICOLOR	BLUE FLAG IRIS	#1 CONT.	18" O.C.	FULL, WELL ROOTED, CONTAINER
		40	AD	ADIANTUM PEDATUM	MAIDENHAIR FERN	#1 CONT.	18" O.C.	FULL, WELL ROOTED, CONTAINER
		100	PD	PHLOX DIVARICATA	BLUE WOODLAND PHLOX	#1 CONT.	18" O.C.	FULL, WELL ROOTED, CONTAINER
		120	AQ	ANEMONE QUINQUEFOLIA	WOOD ANEMONE	#1 CONT.	18" O.C.	FULL, WELL ROOTED, CONTAINER

NOTES:
 • PLANTS WITHIN PLANTING MIXES TO BE DISTRIBUTED EVENLY THROUGHOUT HATCHED AREA, INSTALLED ACCORDING TO PLANT LAYOUT DETAIL AND WITHOUT ANY DISTINGUISHABLE PATTERN, IN GROUPS OF NO LESS THAN 5 INDIVIDUAL PLANTS.

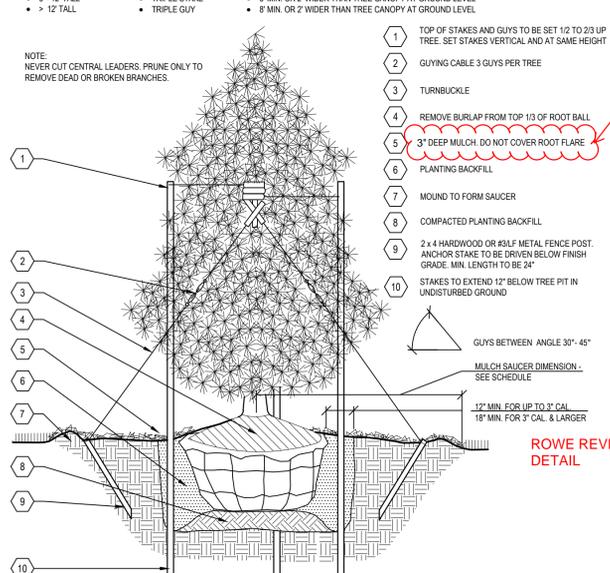
0 MASTER PLANT LIST

SIZE	STAKING / GUYING	MULCH SAUCER DIMENSION (NON-BED AREAS)
• 2" CAL. & SMALLER	• DOUBLE STAKE	• 4" DIA.
• BETWEEN 2.5" & 3.5" CAL.	• TRIPLE STAKE	• MIN. 8" DIA. - EXTEND OUTSIDE DIAMETER TO INCLUDE GUYING STAKES
• 4" CAL. - 6" CAL.	• TRIPLE GUY	

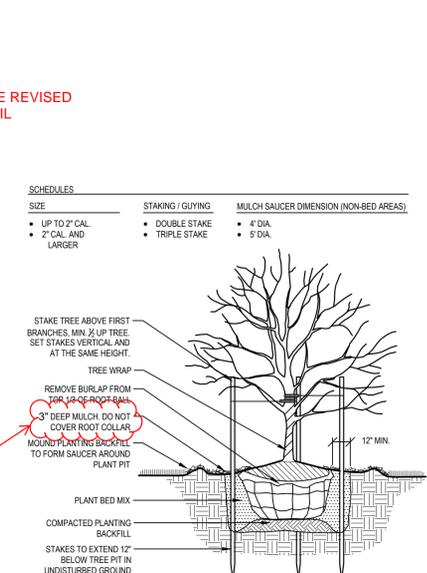
SIZE	STAKING / GUYING	MULCH SAUCER DIMENSION (NON-BED AREAS)
• UP TO 6" TALL	• DOUBLE STAKE	• 4" MIN. OR 2" WIDER THAN TREE CANOPY AT GROUND LEVEL
• 6" - 12" TALL	• TRIPLE STAKE	• 5" MIN. OR 2" WIDER THAN TREE CANOPY AT GROUND LEVEL
• > 12" TALL	• TRIPLE GUY	• 8" MIN. OR 2" WIDER THAN TREE CANOPY AT GROUND LEVEL



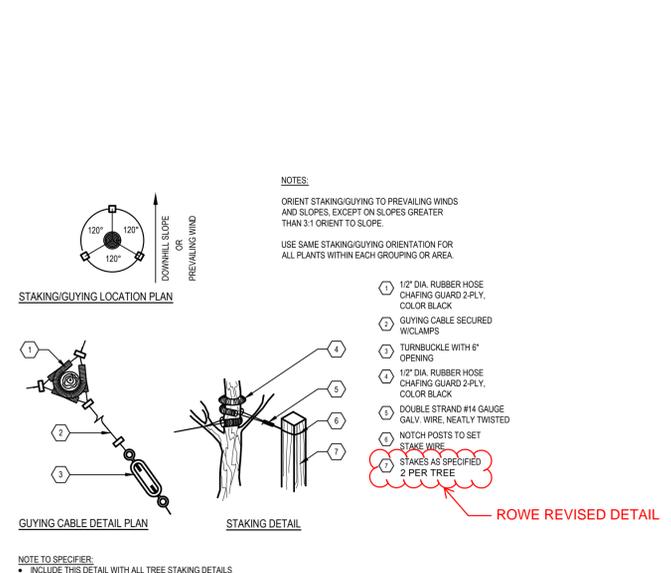
3 DECIDUOUS TREE SECTION SCALE: 3/4" = 1'



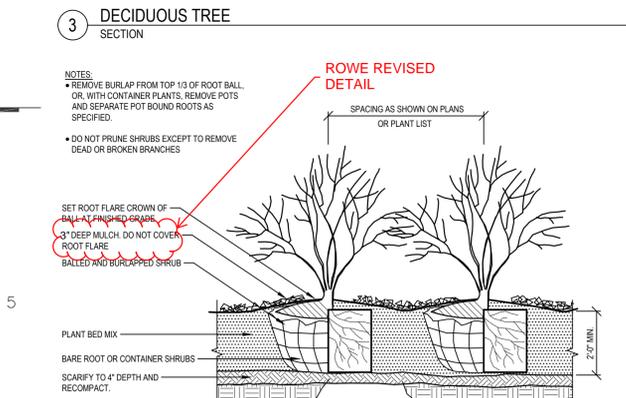
4 CONIFEROUS TREE SECTION SCALE: 3/4" = 1'



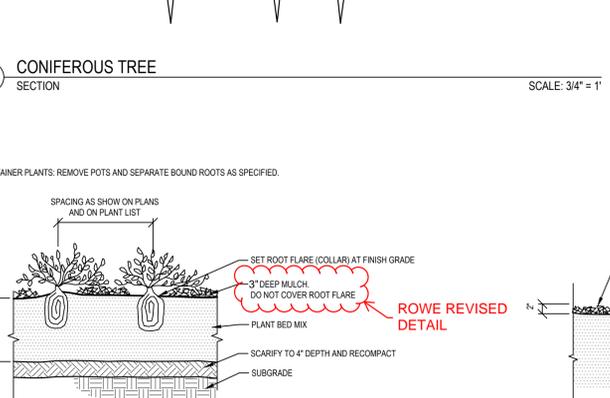
5 ORNAMENTAL TREE SECTION SCALE: 3/4" = 1'



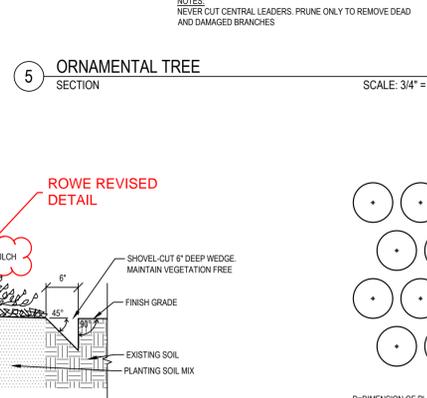
6 TREE STAKING AND GUYING N.T.S.



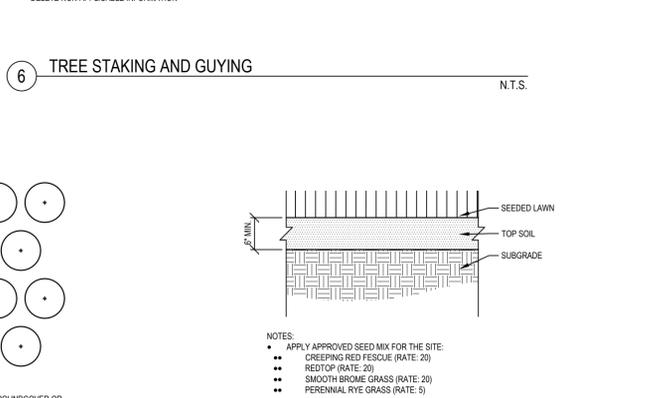
7 SHRUB PLANTING BED SECTION SCALE: 3/4" = 1'



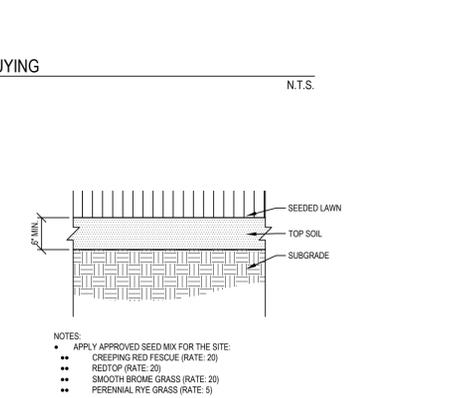
8 PERENNIAL PLANTING BED SECTION SCALE: 3/4" = 1'



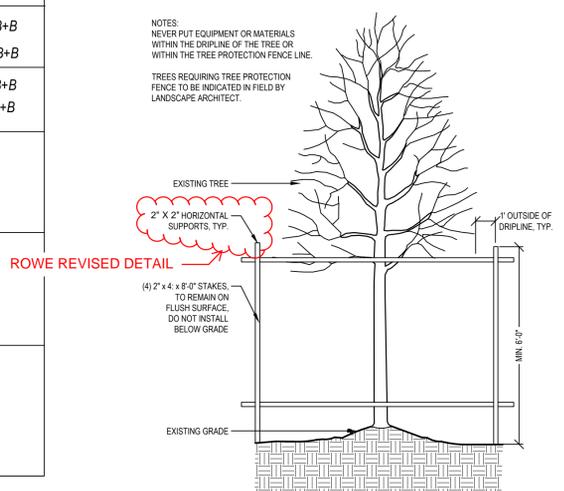
9 HAND DUG TRENCH EDGE SECTION SCALE: 3/4" = 1'



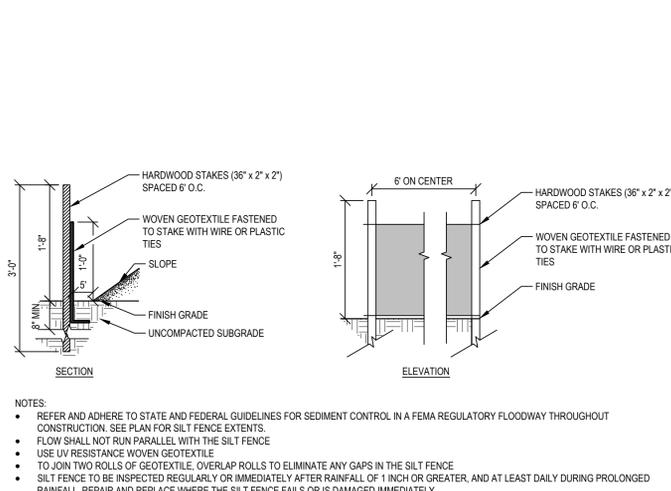
10 PLANT SPACING PLAN N.T.S.



11 LAWN SECTION SCALE: 3/4" = 1'



1 TREE PROTECTION SECTION SCALE: 3/4" = 1'



2 SILT FENCE SECTION SCALE: 3/4" = 1'

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3400 W BOULEVARD DRIVE
FLINT, MI 48505

EGLE PERMIT REVIEW	02/14/2025
DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

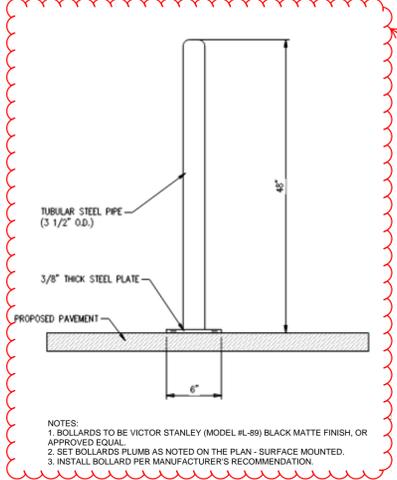
REVISION	DATE

SHEET TITLE:
PLANTING DETAILS

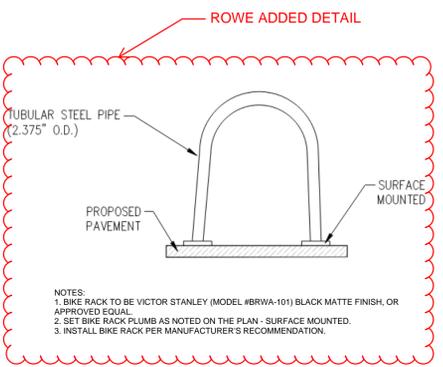
Date: 02.14.2025
 Project Number: 240401
 SHEET NUMBER:

L-700

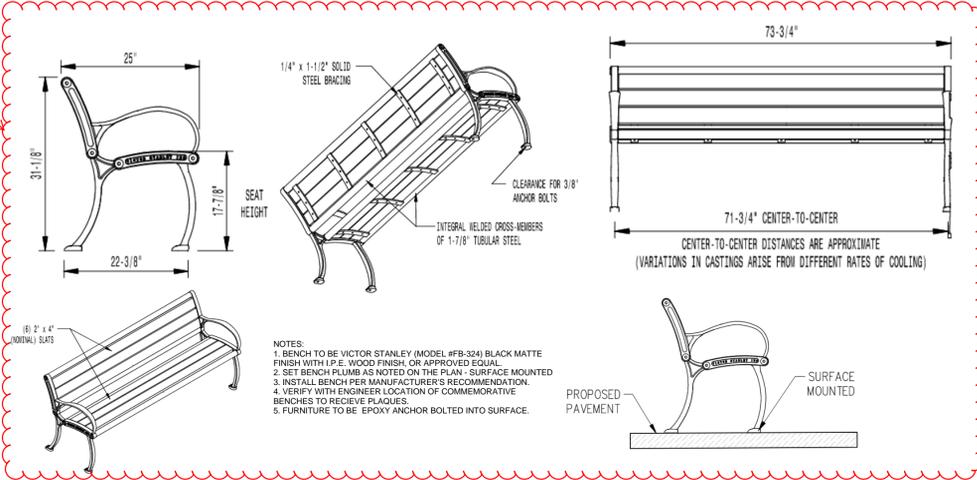
REFER THE FINISHING SCHEDULE ON SHEET SERIES L-500 FOR PRODUCT INFORMATION. ALL PRODUCTS LISTED SHOULD BE CONSIDERED THE BASIS OF DESIGN. THE GENERAL CONTRACTOR SHALL SECURE THESE PRODUCTS, OR THOSE OF SIMILAR QUALITY, FOR FINAL APPROVAL BY THE LANDSCAPE ARCHITECT AND THE OWNER. PROVIDE SAMPLES AND MOCK UPS AS NECESSARY.



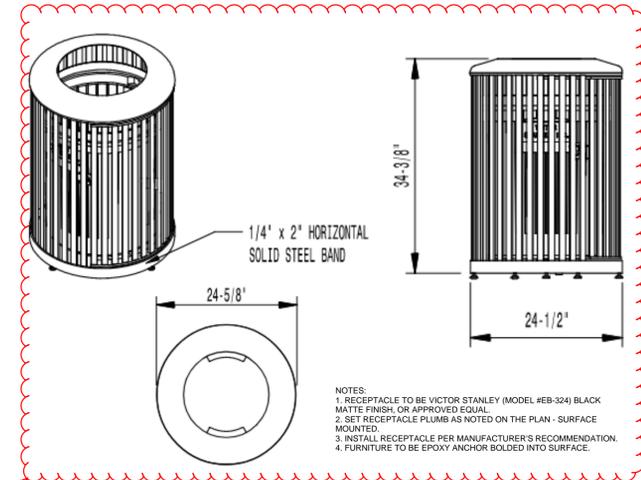
ROWE ADDED DETAIL



ROWE ADDED DETAIL



NOTES:
 1. BENCH TO BE VICTOR STANLEY (MODEL #FB-324) BLACK MATTE FINISH WITH L.P.E. WOOD FINISH, OR APPROVED EQUAL.
 2. SET BENCH PLUMB AS NOTED ON THE PLAN - SURFACE MOUNTED.
 3. INSTALL BENCH PER MANUFACTURER'S RECOMMENDATION.
 4. VERIFY WITH ENGINEER LOCATION OF COMMEMORATIVE BENCHES TO RECEIVE PLAQUES.
 5. FURNITURE TO BE EPOXY ANCHOR BOLDED INTO SURFACE.



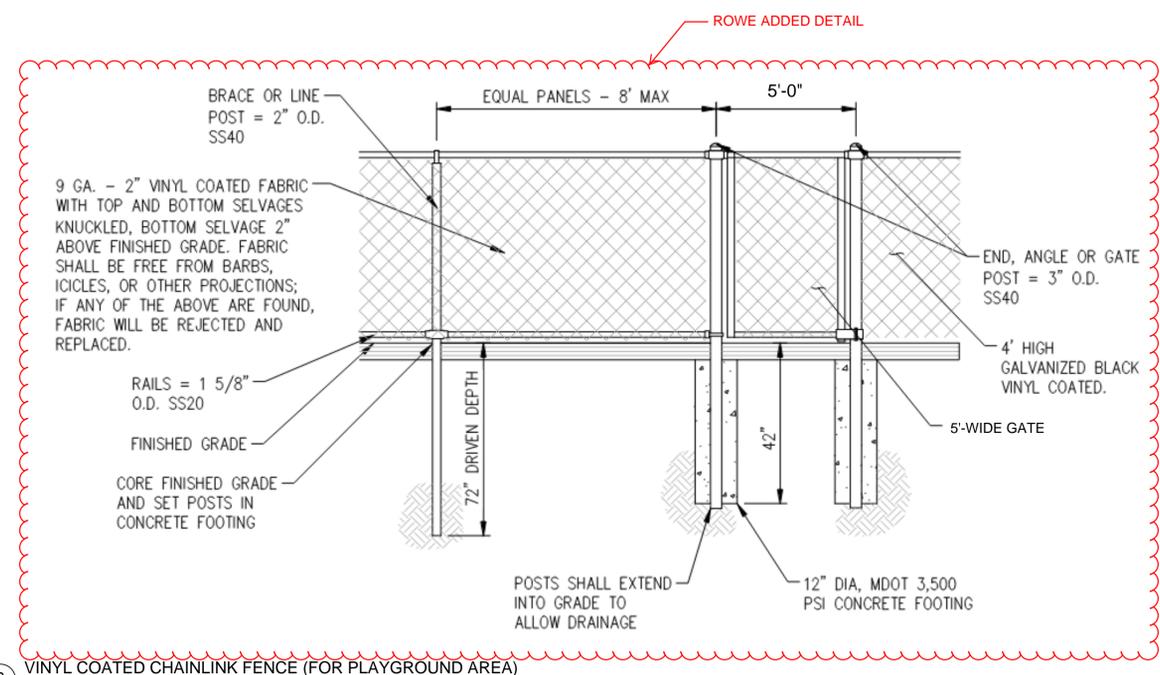
NOTES:
 1. RECEPTACLE TO BE VICTOR STANLEY (MODEL #EB-324) BLACK MATTE FINISH, OR APPROVED EQUAL.
 2. SET RECEPTACLE PLUMB AS NOTED ON THE PLAN - SURFACE MOUNTED.
 3. INSTALL RECEPTACLE PER MANUFACTURER'S RECOMMENDATION.
 4. FURNITURE TO BE EPOXY ANCHOR BOLDED INTO SURFACE.

1 SECURITY BOLLARD SECTION SCALE: NOT TO SCALE

2 BIKE RACK SECTION SCALE: NOT TO SCALE

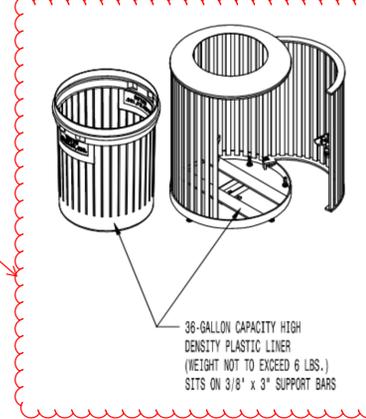
3 STANDARD AND COMMEMORATIVE BENCH SECTION SCALE: NOT TO SCALE

5 TRASH & RECYCLING BIN SECTION SCALE: NOT TO SCALE



ROWE ADDED DETAIL

6 VINYL COATED CHAINLINK FENCE (FOR PLAYGROUND AREA) SECTION SCALE: NOT TO SCALE



ROWE ADDED DETAIL



PROJECT:
 ST. JOHN MEMORIAL TRAIL
 3400 W BOULEVARD DRIVE
 FLINT, MI 48505

DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

REVISION	DATE

SEAL:

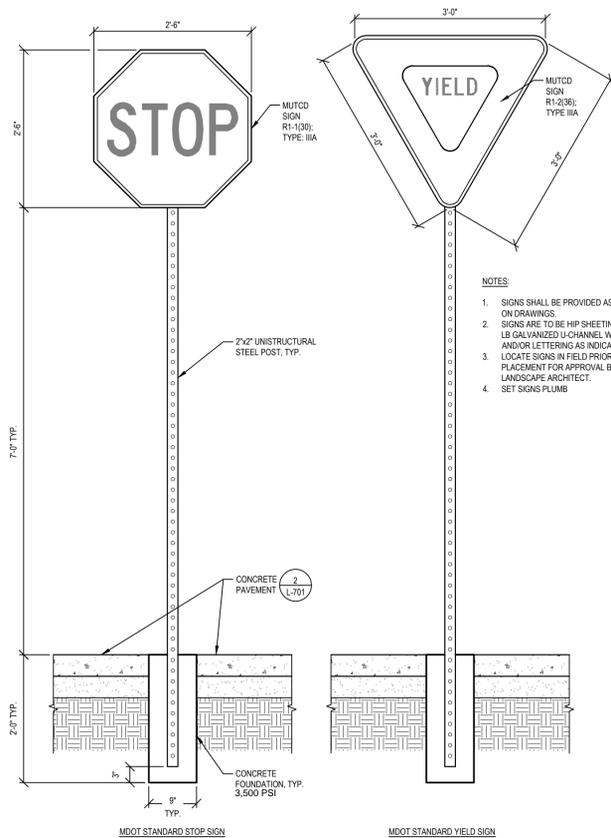
SHEET TITLE:
FURNISHING DETAILS

Date: 02.14.2025

Project Number: 240401

SHEET NUMBER:

L-702

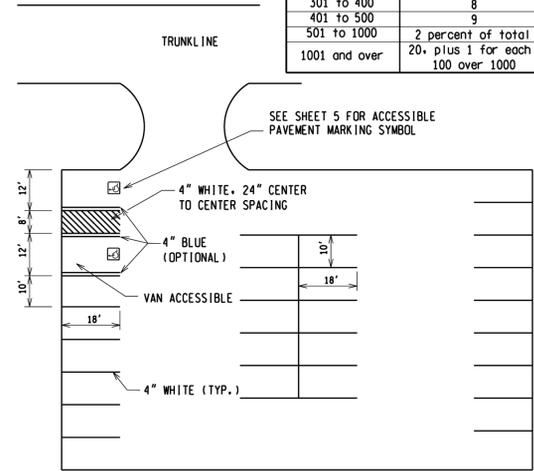


- NOTES:
- SIGNS SHALL BE PROVIDED AS INDICATED ON DRAWINGS.
 - SIGNS ARE TO BE HIP SHEETING, 2 LB OR 3 LB GALVANIZED U-CHANNEL WITH LOGOS AND/OR LETTERING AS INDICATED.
 - LOCATE SIGNS IN FIELD PRIOR TO PLACEMENT FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
 - SET SIGNS PLUMB.

1 MDOT STOP & YIELD SIGNS
SECTION

SCALE: 3/4"=1'

Total Parking in Lot	Required Minimum Number of Accessible Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100 over 1000



TYPICAL PARK AND RIDE LOT LAYOUT

- NOTES:
- Refer to the Road Design Manual for typical parking lot dimensions.
 - Shown for typical stall striping information only.
 - All stall lines are single white lines. White lines may be supplemented with blue in accessible stalls.
 - 1 van accessible stall is required for every 6 accessible stalls, with a minimum of 1.
 - Buffers adjacent to a van accessible stall must be 8 ft wide. Buffers adjacent to other accessible stalls may be 5 ft width. Two accessible stalls may share a buffer. Buffers may be on either side of the stall except for angled van accessible stalls, where the buffer must be on the right (passenger) side.

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN

09/21/20
C.S.K.A. APPROVAL

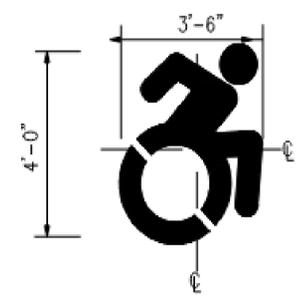
03/25/20
P.L.W. DATE

PAVE-956-D

SHEET
2 OF 6

NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.

2 MDOT STANDARD PARKING AND ACCESSIBLE PAVEMENT MARKING
SECTION



ACCESSIBLE PAVEMENT MARKING SYMBOL

- NOTES:
- SYMBOL LINES SHALL BE APPLIED AT A WIDTH OF 4"
 - MATERIAL SHALL BE BLUE WATERBORNE
 - CENTERLINE OF SYMBOL SHALL BE PARALLEL TO PARKING STALL STRIPE AND IN CENTER OF STALL.

SCALE: 1"=1'

JIMA STUDIO
landscape architecture • urban planning • collective work & responsibility
8045 Linwood Street, Suite 1
Detroit, Michigan 48206
www.jimastudio.com

CONSULTANT:

A/E COLLABORATIVE

OSBORN ENGINEERING
30200 Telegraph Road, Suite 200 | Bingham Farms, MI 48025
(248) 915-4214 www.osborn-eng.com

Great Lakes recreation

FLUTTER & WOW
MUSEUM PROJECTS

WTS

CUSTOMER:

PROJECT:
ST. JOHN MEMORIAL TRAIL
3400 W BOULEVARD DRIVE
FLINT, MI 48505

DD UPDATE	12/20/2024
100% DESIGN DEVELOPMENT	09/20/2024
50% DESIGN DEVELOPMENT	08/30/2024

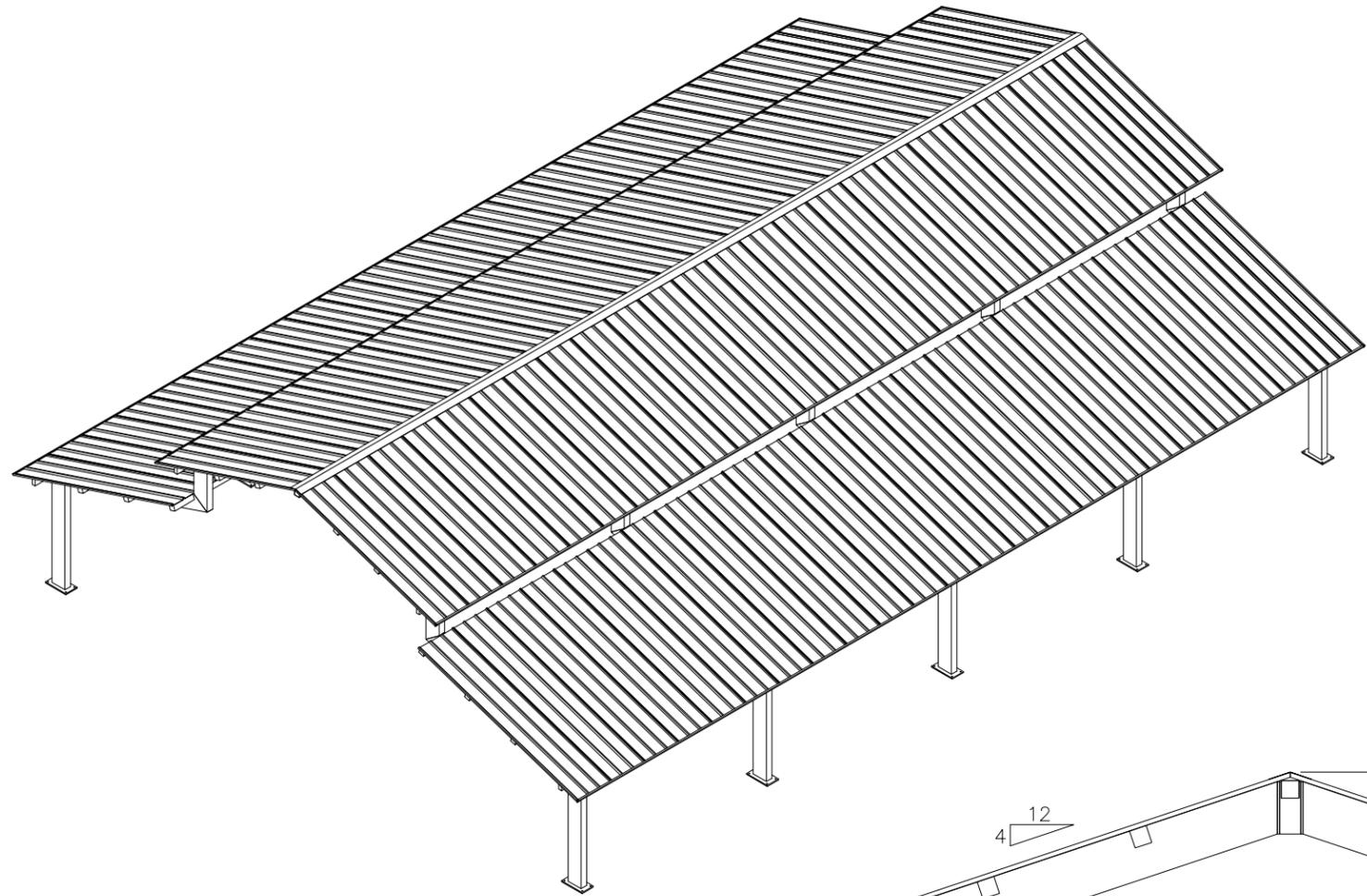
REVISION	DATE

SEAL:

SHEET TITLE:
FURNISHING DETAILS

Date: 02.14.2025
Project Number: 240401

SHEET NUMBER:
L-703



PRELIMINARY: NOT FOR CONSTRUCTION

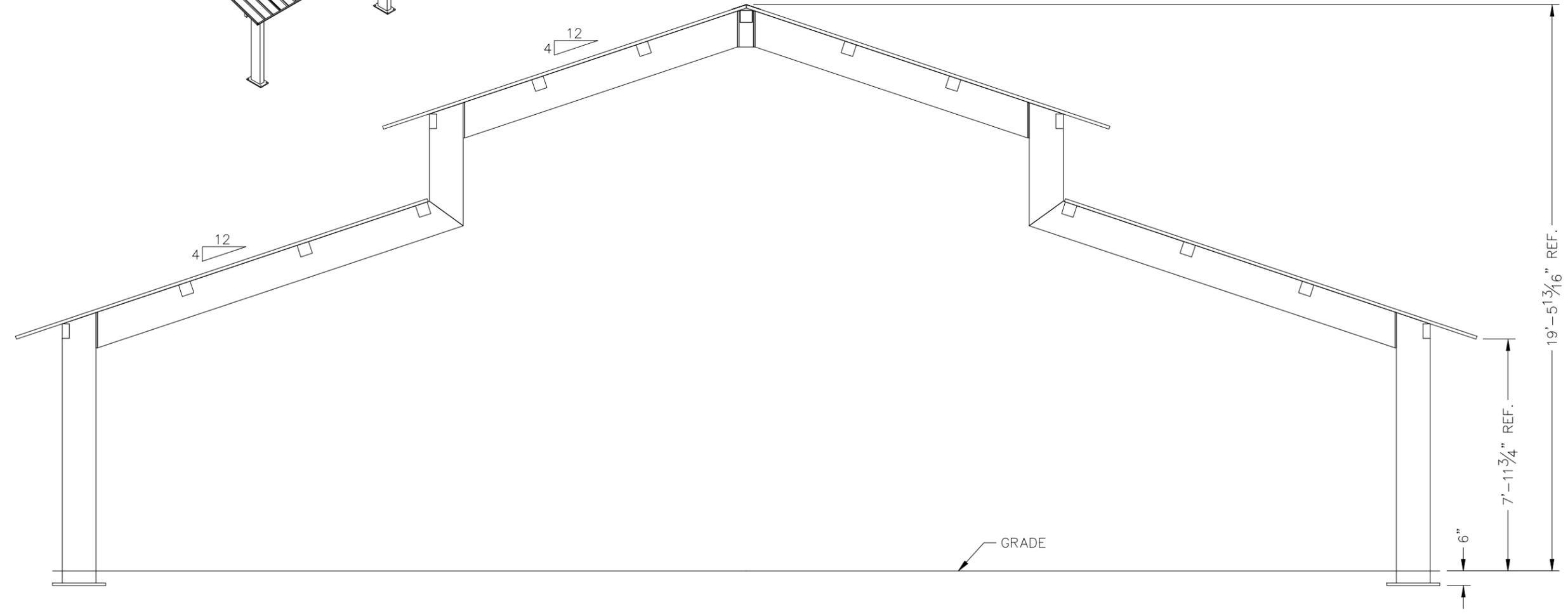
NOTICE:
 PLAN LAYOUT SHEET AS PROVIDED BY ICON SHELTER SYSTEMS, OR APPROVED EQUAL. REFER TO SPECIFICATIONS IN BID BOOK 01 25 00 FOR MORE INFORMATION.

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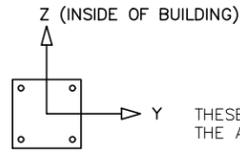
Elevation

DRAWN BY:	RGB
DATE:	1/18/2024
PRELIMINARY ID:	82159
REVISION:	A
BUILDING TYPE:	RG50X70M-P4
PROJECT NAME:	

SHEET
 1.0



DWG:ineering\Standards\Shelters\RG\50X70\M-P4-20-90-30\Drawings\Preliminary\RG50x70M-P44-20-90-30~82159.DWG

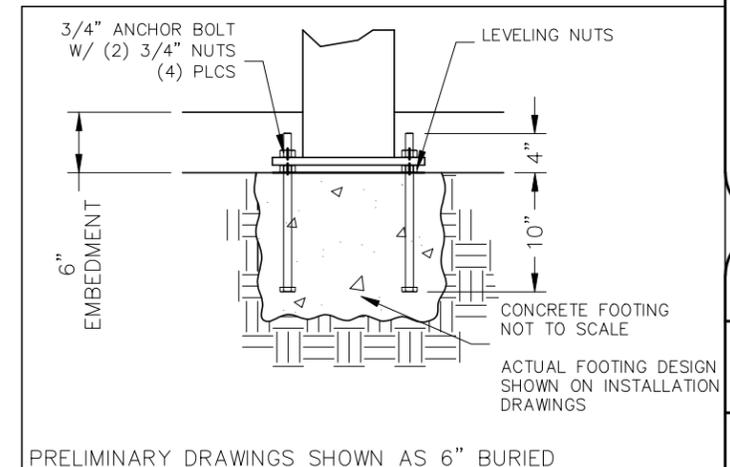
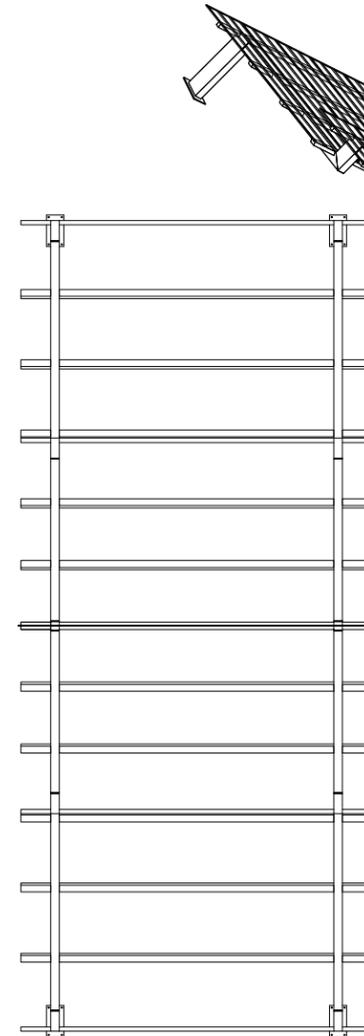
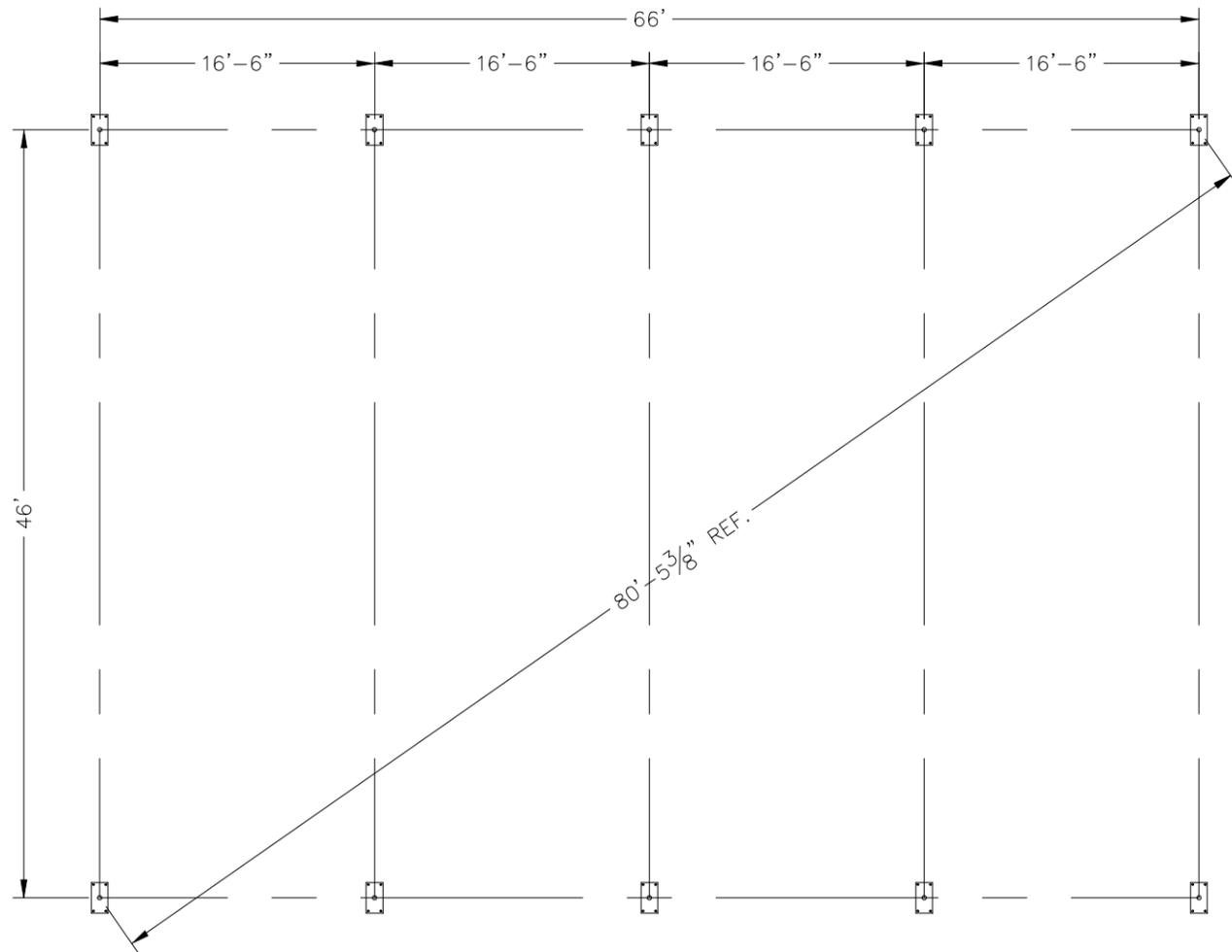


THESE FOUNDATION LOADS ARE FOR ESTIMATING PURPOSE ONLY.
THE ACTUAL LOADS WILL BE DETERMINED IN THE FINAL ENGINEERING

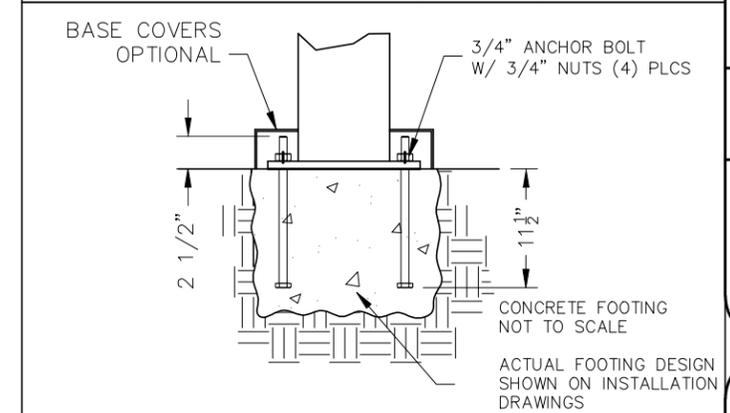
- NOTES:**
- TABLE SHOWS UNFACTORED SERVICE LOADS
 - A FOUNDATION DESIGN HAS NOT BEEN PERFORMED BY ICON SHELTER SYSTEMS INC.
 - A LICENSED ENGINEER FAMILIAR WITH SOIL CONDITIONS AT CONSTRUCTION SITE MUST PERFORM A FOUNDATION DESIGN.
 - THE STRUCTURE HAS BEEN ENGINEERED AS AN OPEN STRUCTURE.
 - CONSULT ICON SHELTER SYSTEMS INC. IF THE STRUCTURE IS TO BE ENCLOSED.
 - COORDINATES ARE LOCAL TO THE COLUMN

- DEFINITIONS:**
- DL = SERVICE LEVEL DEAD LOAD REACTION WITH THE GREATEST AXIAL LOAD
 - SL = SERVICE LEVEL SNOW LOAD REACTION WITH THE GREATEST AXIAL LOAD
 - W-UL = SERVICE LEVEL WIND LOAD REACTION WITH THE GREATEST UPLIFT LOAD
 - W-Y = SERVICE LEVEL WIND LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Y DIRECTION
 - W-Z = SERVICE LEVEL WIND LOAD REACTION WITH THE GREATEST SHEAR VALUE ACTING IN THE SAME DIRECTION AS THE DL SHEAR LOAD
 - E-Y = SERVICE LEVEL SEISMIC LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Y DIRECTION
 - E-Z = SERVICE LEVEL SEISMIC LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Z DIRECTION

LOADS TO FOUNDATION (KIPS, IN-KIPS)	FOUNDATION LOADS				
	AXIAL (Fx)	SHEAR (Fy)	SHEAR (Fz)	MOMENT (My)	MOMENT (Mz)
DL	4.90	0.00	3.59	-192.12	0.00
SL	9.38	0.00	7.13	-381.18	0.00
W-UPLIFT	-4.77	0.62	-3.18	160.14	55.52
W-FY	3.21	-0.63	2.16	-110.50	-55.84
W-FZ	-4.77	-0.62	-3.18	160.14	-55.52
E-FY	-0.01	-0.45	0.00	0.21	-40.28
E-Z	-0.14	0.00	-0.49	41.76	-0.02



PRELIMINARY DRAWINGS SHOWN AS 6" BURIED
STANDARD BASE CONNECTION
COLUMN TYPE: A (6" BURIED)



OPTIONAL BASE CONNECTION
COLUMN TYPE: B (SURFACE MOUNT W/ COVERS)

PRELIMINARY: NOT FOR CONSTRUCTION

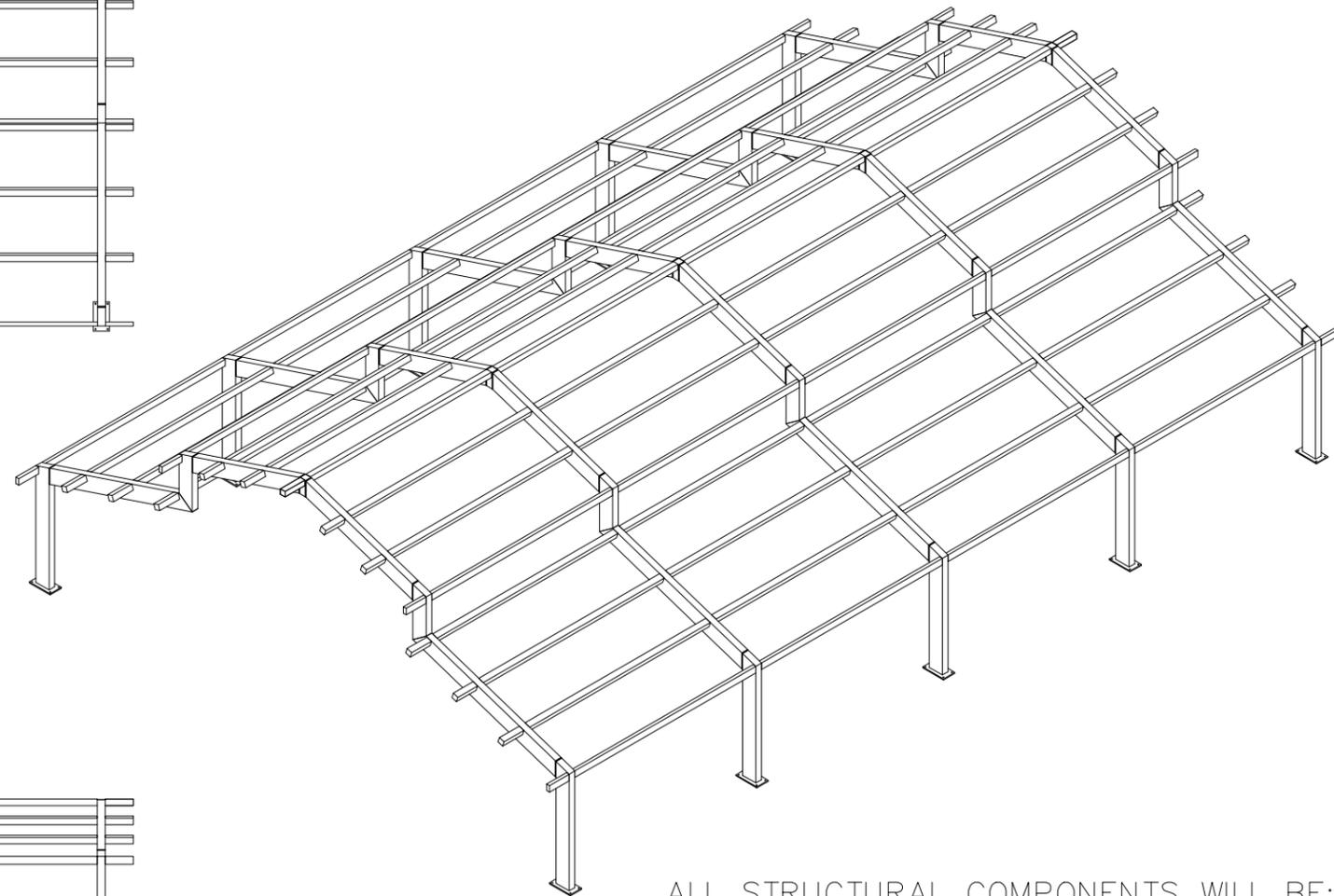
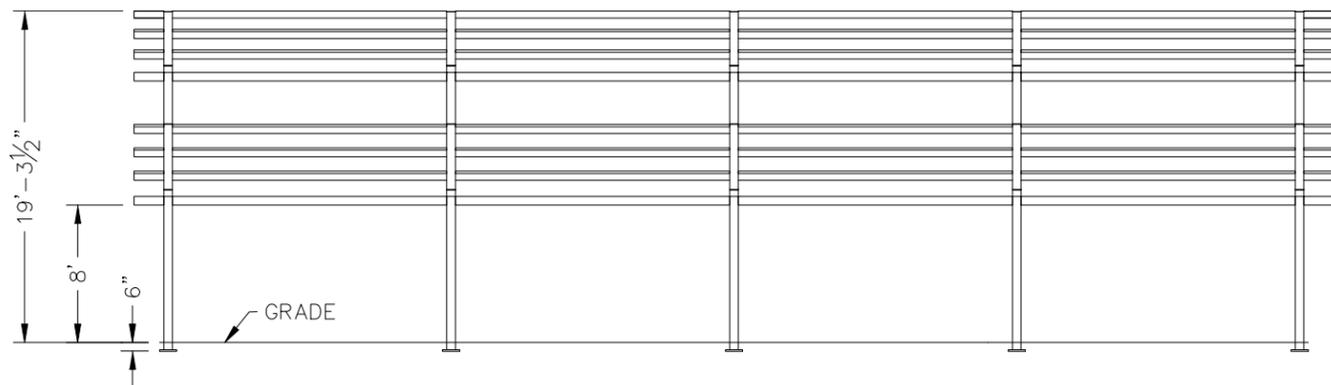
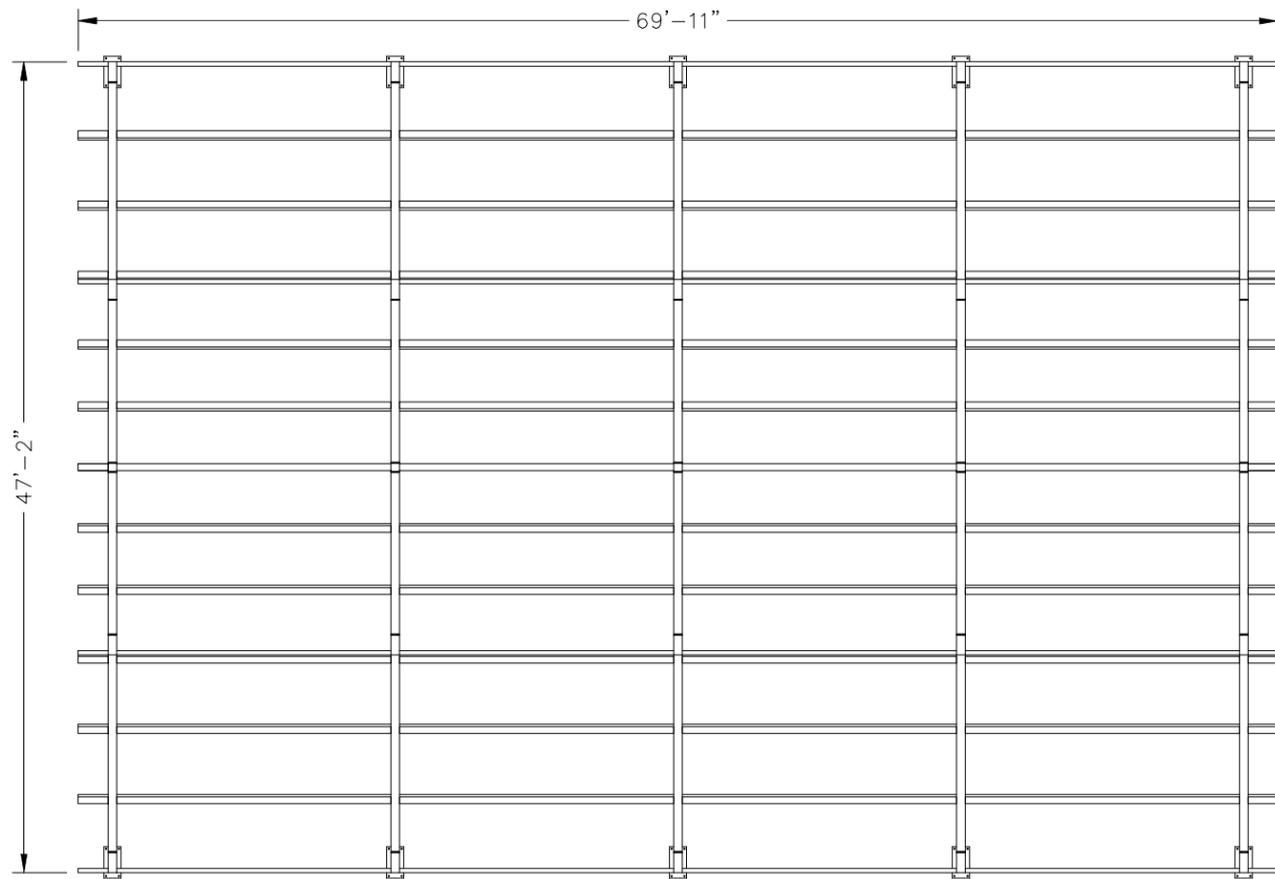
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Anchor Bolt Layout

DRAWN BY: RGB
DATE: 1/18/2024
PRELIMINARY ID: 82159
REVISION: A
BUILDING TYPE: RG50X70M-P4
PROJECT NAME:

SHEET
2.0

DWG:ineering\Standards\Shelters\RG\50X70\M-P4-20-90-30\Drawings\Preliminary\RG50x70M-P44-20-90-30~82159.DWG



ALL STRUCTURAL COMPONENTS WILL BE:
 TUBE: ASTM A500 GRADE B
 PLATE: ASTM A36
 BOLTS: ASTM A325
 NUTS: ASTM A563
 WELDING: GMAW

NOTE:
 COLUMN SIZE: HSS 14x6x1/4

PRELIMINARY: NOT FOR CONSTRUCTION

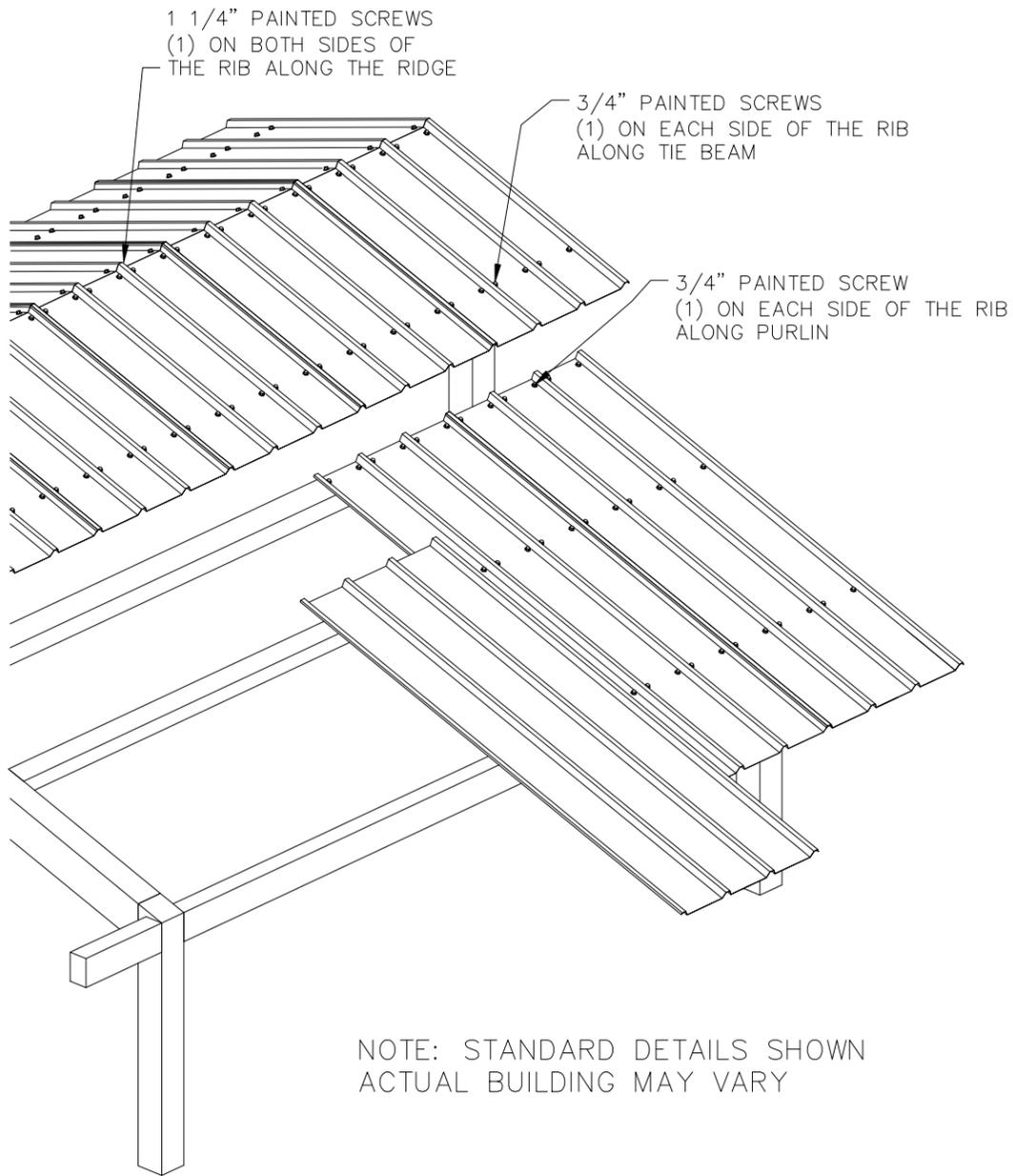
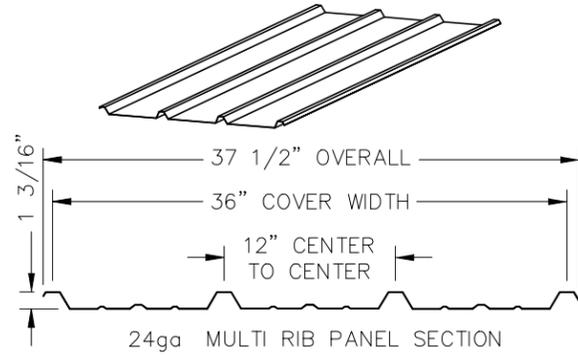
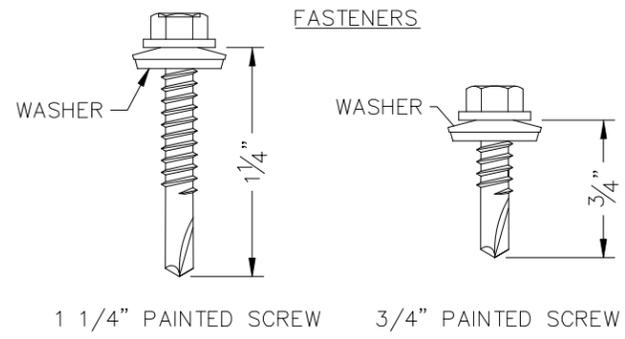
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Frame

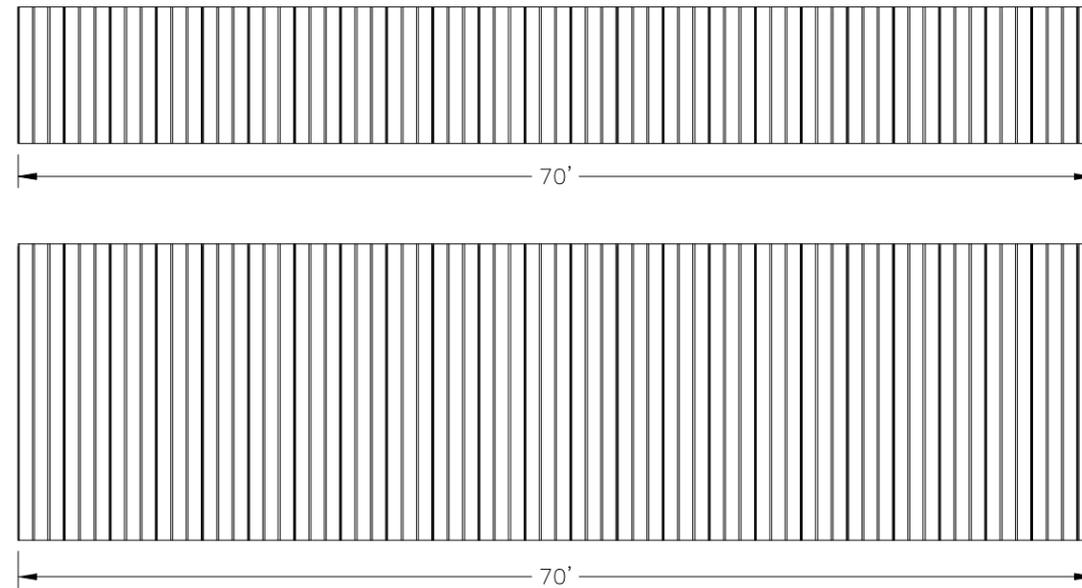
DRAWN BY:	RGB
DATE:	1/18/2024
PRELIMINARY ID:	82159
REVISION:	A
BUILDING TYPE:	RG50X70M-P4
PROJECT NAME:	

SHEET
 3.0

DWG:ineering\Standards\Shelters\RG\50X70\M-P4-20-90-30\Drawings\Preliminary\RG50x70M-P44-20-90-30~82159.DWG



NOTE: STANDARD DETAILS SHOWN
ACTUAL BUILDING MAY VARY



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Roof Layout

DRAWN BY:	RGB
DATE:	1/18/2024
PRELIMINARY ID:	82159
REVISION:	A
BUILDING TYPE:	RG50X70M-P4
PROJECT NAME:	

ELECTRICAL INFORMATION - RECTANGULAR GABLE

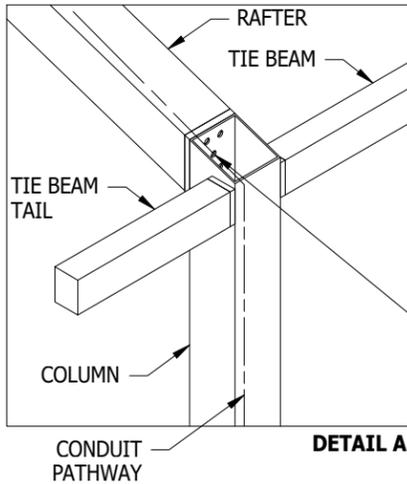
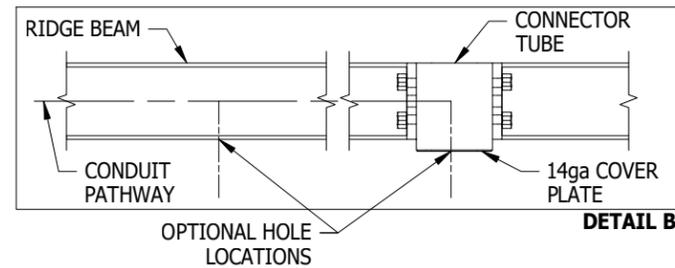
ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

OPTIONAL EXIT HOLES

IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY) USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZE.

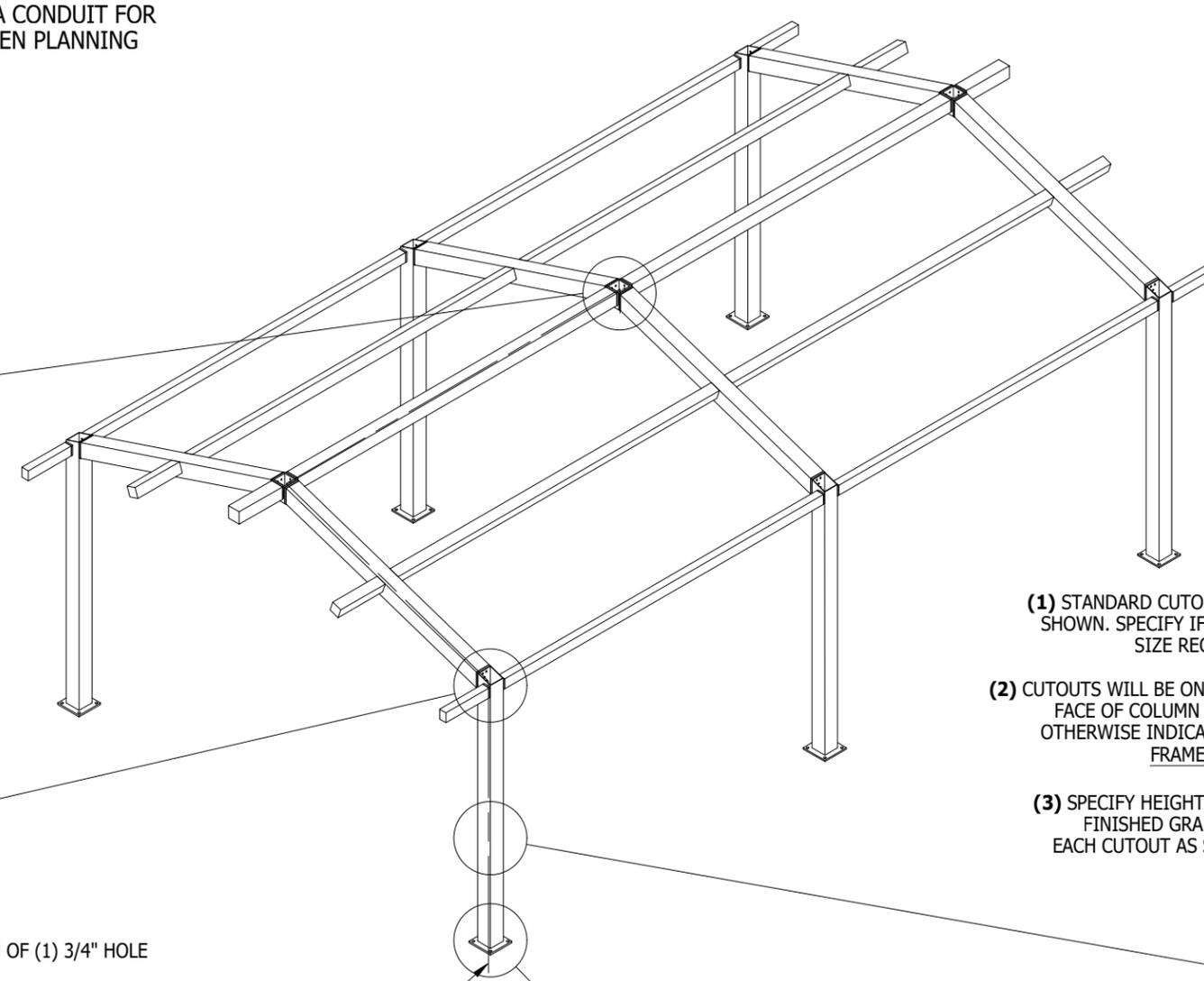


ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT. IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

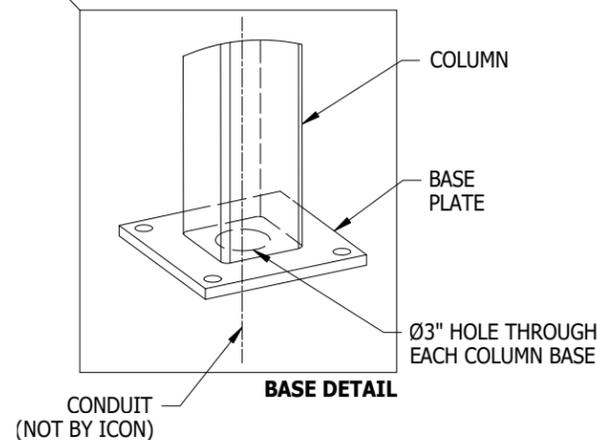
- 3/4" CONDUIT (1" HOLES)
- 1" CONDUIT (1 1/4" HOLES)
- OTHER (PLEASE SPECIFY)

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PRELIMINARY FOR ORDER-SPECIFIC CONFIGURATION.

PRELIMINARY: NOT FOR CONSTRUCTION



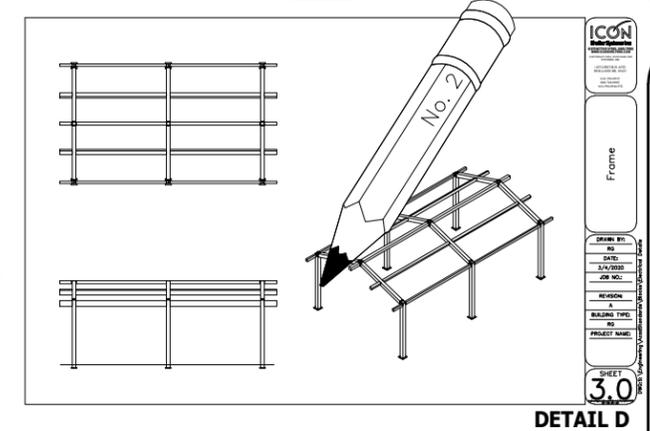
CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.



STEPS:

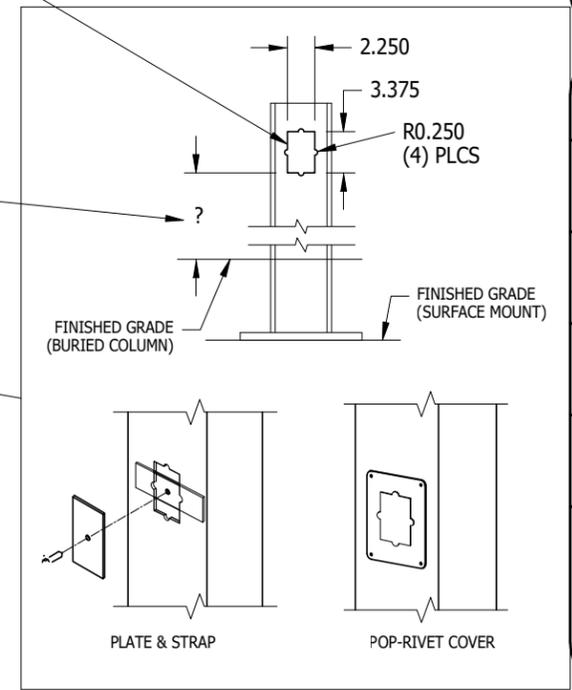
1. CONDUIT HOLE SIZE (DETAIL A)
2. ELECTRICAL EXIT HOLES (DETAIL B)
3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)
4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET OF THIS PRELIMINARY.



OPTIONAL CUTOUTS
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY) SEE REQUIRED INFO BELOW

- (1) STANDARD CUTOUT SIZE SHOWN. SPECIFY IF OTHER SIZE REQUIRED.
- (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.
- (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN



(4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY) PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:

- PLATE & STRAP
 - POP-RIVET COVER PLATE
- HOW MANY REQUIRED? _____

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Electrical

DRAWN BY:
RGB
DATE:
1/18/2024
PRELIMINARY ID:
82159
REVISION:
A
BUILDING TYPE:
RG50X70M-P4
PROJECT NAME:

SHEET
5.0

DWG:ineering\Standards\Shelters\RG\50X70\M-P4-20-90-30\Drawings\Preliminary\RG50x70M-P4-20-90-30~82159.DWG

General Notes:

Age Group

- 2-5yrs 5-12 yrs 2-12yrs 13 yrs

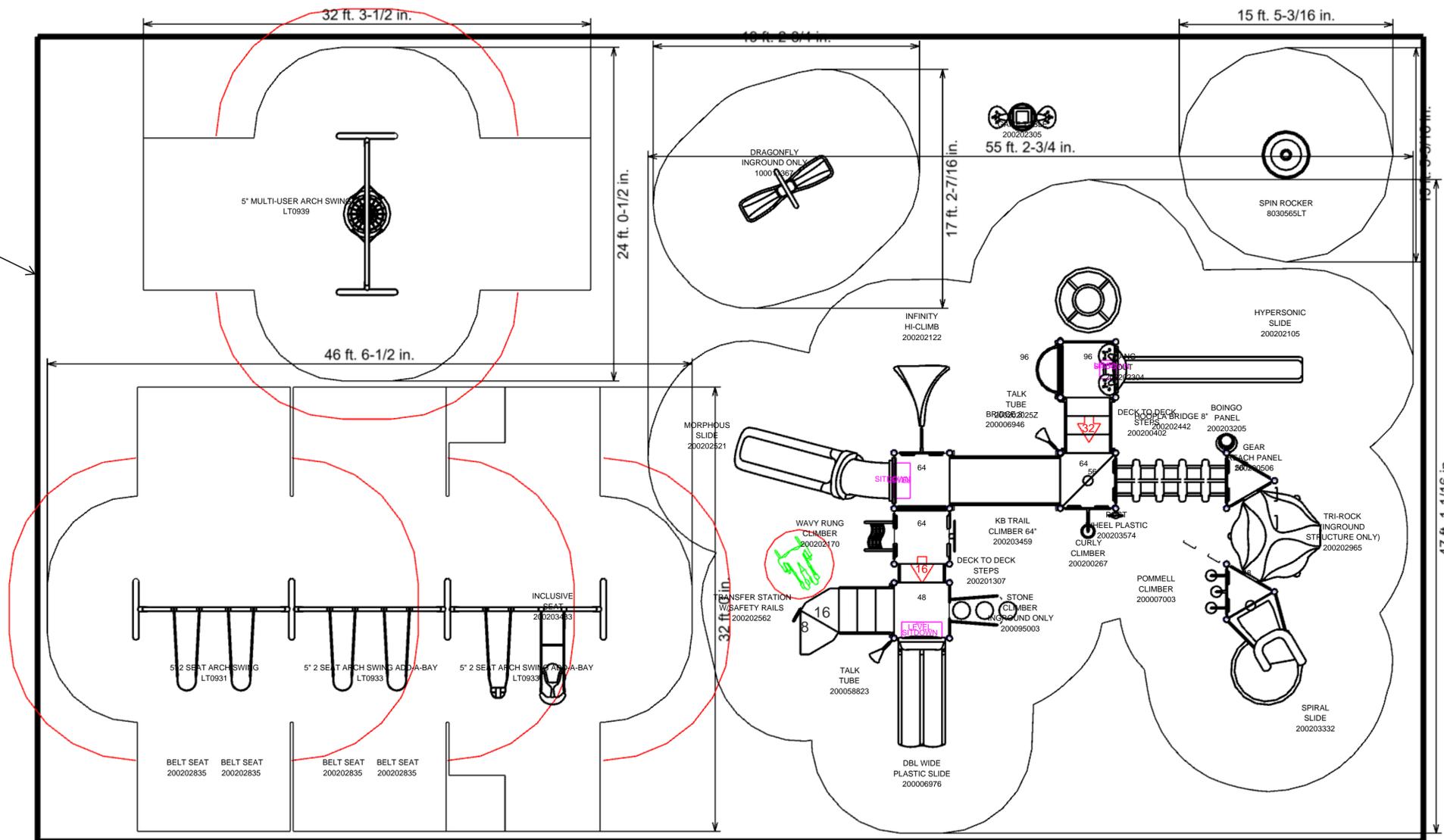
1. The Americans with Disabilities Act (ADA) may require that you make your park and/or playground accessible when viewed in its entirety. Please consult your legal counsel to determine if the ADA applies to you.
2. For playground equipment to be considered accessible accessible surfacing must be utilized in applicable areas.
3. Although a particular playground design may not meet the proposed Access Board Regulations in regards to the appropriate number of ground level events the actual playground may be in compliance when considering existing play components.
4. All deck heights are measured from top of ground cover.
5. Fall absorbing ground cover is required under and around all play equipment.
6. The minimum recommended fall zone around the entire playstructure is shown. This zone is to be free of all tripping or collision hazards (i.e. roots rocks border material etc.).
7. All post lengths are identified by text showing the post lengths i.e. 96 represents a 96 inch post.
8. Not all equipment may be appropriate for all children. Supervision is required.

PLAYGROUND CONCRETE CURB
EDGE - SEE CONSTRUCTION
PLANS L-701 (DETAIL #8)

AGE GROUP: 5-12_ASTM	
ELEVATED PLAY ACTIVITIES - TOTAL:	13 REQ'D 7
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY TRANSFER:	13 REQ'D 7
ELEVATED PLAY ACTIVITIES ACCESSIBLE BY RAMP:	0 REQ'D 0
GROUND LEVEL ACTIVITY TYPE:	9 REQ'D 3
GROUND LEVEL QUANTITY:	16 REQ'D 4



NOTICE:
PLAY LAYOUT SHEET AS PROVIDED BY GREAT LAKES RECREATION COMPANY, OR APPROVED EQUAL. REFER TO SPECIFICATIONS IN BID BOOK 11 68 13 (PLAYGROUND EQUIPMENT).



Project: St John Neighborhood
Flint, MI

LTCPS rep:
Steve Sharda
GREAT LAKES RECREATION COMPANY
616-210-4522

Ground Space: 86' x 46'-6"
Protective Area: 99' x 57'

Drawn by: Steve Sharda
Date: 08/11/2025
DWG Name: 24007860

LTCPS - Farmington
878 East Highway 60
Monett Missouri 65708
Voice: 1-800-325-8828
Fax: 417-354-2273

Playground Layout Compliance:

- ASTM F1487 - Playground Equipment for Public Use.
- CPSC Handbook for Public Playground Safety
- This playground design meets the final Access Board Regulations.

The play components identified in this plan are IPEMA certified. The use and layout of these components conform to the requirements of ASTM F1487.