# SITE CONSTRUCTION PLANS FOR FLINT STATE PARK IMPROVEMENTS (AKA "FLINT RIVERFRONT RESTORATION - PHASE 2") GENESEE COUNTY PARKS AND RECREATION COMMISSION **CITY OF FLINT** GENESEE COUNTY, MICHIGAN

# CLIENT

GENESEE COUNTY PARKS AND RECREATION COMMISON 5045 E. STANLEY ROAD, FLINT MI 48506 P: 810.736.7100



ENVIRONMENTAL CONSULTANT:



STANTEC CINCINNATI, OH 45263 P: 513.842.8200 W: WWW.STANTEC.COM

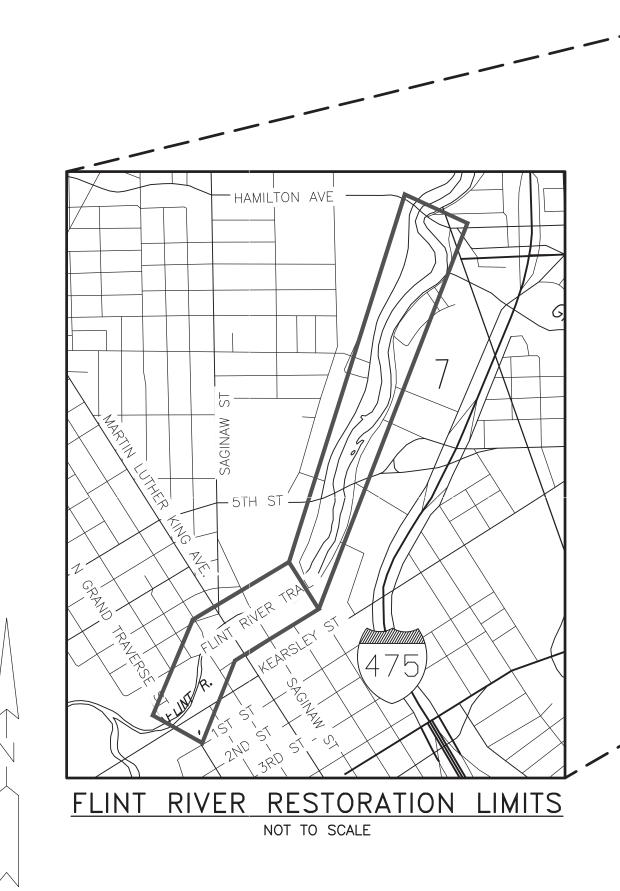
RIVER RESTORATION P.O. BOX 248 CARBONDALE, CO 81623 P: 970.947.9568

REED BURKETT LIGHTING DESIGN, INC. 609 E. LOCKWOOD AVENUE SUITE 201 ST. LOUIS, MO 63119

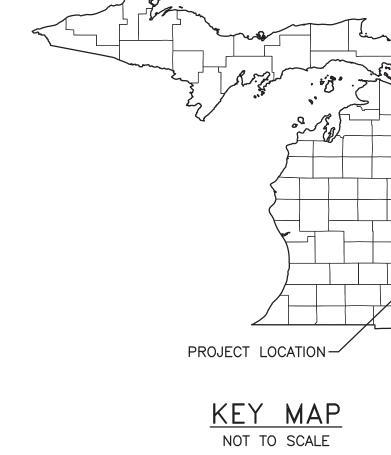
INTOTO STUDIO 6505 WOODWARD AVE. SUITE 200 DETROIT, MI 48202 P: 314.961.6650 E: INFO@INTOTOSUDIO.COM

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AKT PEERLESS 214 JANES AVE. SAGINAW, MI 48607 P: 989.754.9896







UTILITIES & N	UNICIPALITIES
CITY OF FLINT DEPARTMENT OF PUBLIC WORKS 3310 E. COURT STREET FLINT, MICHIGAN 48506 CONTACT: MIKE BROWN, DIRECTOR DEPARTMENT OF PUBLIC WORKS DIRECTOR PHONE: 810.766.7202, EXT. 3413	CITY OF FLINT DEPARTMENT OF PUBLIC WORKS 1101 S. SAGINAW STREET, NORTH BUILDING FLINT, MICHIGAN 48502 CONTACT: MARK ADAS, CITY ENGINEER PHONE: 810.766.7165, EXT. 2601
TELEPHONE AT&T 54 NORTH MILL STREETP.O. BOX 32 PONTIAC, MICHIGAN 48342 CONTACT: MATT SLIWA PHONE: 248.877.0762	CITY OF FLINT DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING DIVISION 702 WEST 12TH STREET FLINT, MICHIGAN 48502 RODNEY McGAHA, TRAFFIC CONTROL PHONE: 810.691.3106
ELECTRIC CONSUMERS ENERGY – ELECTRIC 1801 WEST MAIN STREET OWOSSO, MICHIGAN 48867 CONTACT: TRACY MAHAR PHONE: 989.729.3250	BUS ROUTES MASS TRANSPORTATION AUTHORITY 1401 SOUTH DORT HIGHWAY FLINT, MI 48503 CONTACT: EDGAR BENNING PHONE: 810.767.6950
GAS CONSUMERS ENERGY 3201 EAST COURT STREET FLINT, MICHIGAN 48501 CONTACT: TONNA WILCOX PHONE: 810.760.3486	BUS ROUTES FLINT COMMUNITY SCHOOLS 923 EAST KEARSLEY STREET FLINT, MI 48503 CONTACT: WILLIAM CHAPMAN, OPERATIONS PHONE: 810.767.6046
CABLE TV COMCAST 25626 TELEGRAPH ROAD SOUTHFIELD, MICHIGAN 48034 CONTACT: CRAIG PUDAS PHONE: 248.809.2715	GAS CONSUMERS ENERGY 3201 EAST COURT STREET FLINT, MICHIGAN 48501 CONTACT: DAVID TOMCZAK PHONE: 810.760.3503
GAS CONSUMERS ENERGY 3201 EAST COURT STREET FLINT, MICHIGAN 48501 CONTACT: TONNA WILCOX PHONE: 810.760.3486	CABLE TV B&M ASHMAN C/O COMCAST 8455 RHONDA DRIVE CANTON, MICHIGAN 48187 CONTACT: BRAD TENNING PHONE: 734.777.7910
GENESEE COUNTY DRAIN COMMISSIONER – WATER AND WASTE SERVICES G-4610 BEECHER RD FLINT, MICHIGAN 48532 PHONE: 810.732.7870	FIBER OPTIC FIBER LINK, INC. (GISD) 3529 WEST GENESEE STREET LAPEER, MICHIGAN 48446 CONTACT: TINA SNOBLEN PHONE: 810.667.2891

ISSUED FOR BID SET

DATE: 10/23/24 BY: SAL



PROTECTION OF UNDERGROUND UTILITES

THE CONTRACTOR SHALL CONTACT "MISS DIG" AT 800.482.7171, 811, OR VISIT WWW.MISSDIG.ORG, A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO EXCAVATING IN THE VICINITY OF UNDERGROUND UTILITIES TO VERIFY THEIR LOCATION. ADDITIONALLY, Know what's below. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING UTILITY OWNERS Call before you dig. WHO ARE NOT PART OF THE "MISS DIG" ALERT SYSTEM.

			FLINI RIVER RESTORATION
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KEARSLEY STREET 48503 WILLIAM CHAPMAN, OF 0.767.6046 S ENERGY COURT STREET HIGAN 48501 DAVID TOMCZAK 0.760.3503 AN C/O COMCAST NDA DRIVE ICHIGAN 48187 BRAD TENNING 4.777.7910 C , INC. (GISD) GENESEE STREET CHIGAN 48446 FINA SNOBLEN 0.667.2891			
12TH STREET HGAN 48502 CGAHA, TRAFFIC CONT 0.691.3106 ES ISPORTATION AUTHOR H DORT HIGHWAY 48503 EDGAR BENNING 0.767.6950	IROL		
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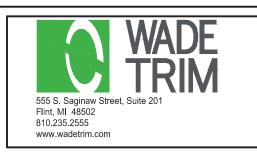
	DRAWING INDEX
SHEET NO.	DESCRIPTION
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G1-3	KEY MAP & PHASING PLAN – 2 IRON BELLE TRAIL & VIETNAM VETERANS PARK
G1-4	LEGEND & ABBREVIATIONS
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JJECT MANAGER:Jason Kenyon PW\_WORK\WADE-TRIM\_NWOLTKAMP\D1061530\GDI-PLTS-DRAWING-INDEX.DWG - DRAWING INDEX - PLOTTED 11/18/2024 11:17 AM BY WOLTK

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	REV#	DATE	DESCRIPTION	

	IFC	SHEET NO.	DESCRIPTION	
	 X	L6-3AA	GRAND FOUNTAIN BLOCK - WORK POINT PLAN	;
	X	L6-3B	GRAND FOUNTAIN BLOCK STRUCTURAL ISOMETRIC VIEW	)
	X	L6-3C L6-3D	GRAND FOUNTAIN BLOCK STRUCTURAL GRADE PLAN GRAND FOUNTAIN BLOCK STRUCTURAL PLANS AND SECTIONS - 1	
	X	L6-3E	GRAND FOUNTAIN BLOCK STRUCTURAL PLANS AND SECTIONS - 1 GRAND FOUNTAIN BLOCK STRUCTURAL PLANS AND SECTIONS - 2	
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	X	L6-3L L6-4	GRAND FOUNTAIN BLOCK STRUCTURAL SECTIONS – 3 GRAND FOUNTAIN BLOCK – GRADING	
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	X	L10-2	ARCHIMEDES SCREW BLOCK - WEST REMOVAL	>
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	X	L10-3B	ARCHIMEDES SCREW BLOCK – WEST STRUCTURAL ARCHIMEDES SCREW BLOCK – WEST GRADING	
	X	L10-5	ARCHIMEDES SCREW BLOCK - WEST UTILITY	>
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	X X	L11-1 L11-2	ARCHIMEDES SCREW BLOCK – EAST EXISTING ARCHIMEDES SCREW BLOCK – EAST REMOVAL	
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		L20-2	RIVER OUTFALLS – DETAILS	
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		L21 - 3	SITE DETAILS - 3	
		L21-4	SITE DETAILS - 4	
		L21-4	SITE DETAILS - 5	

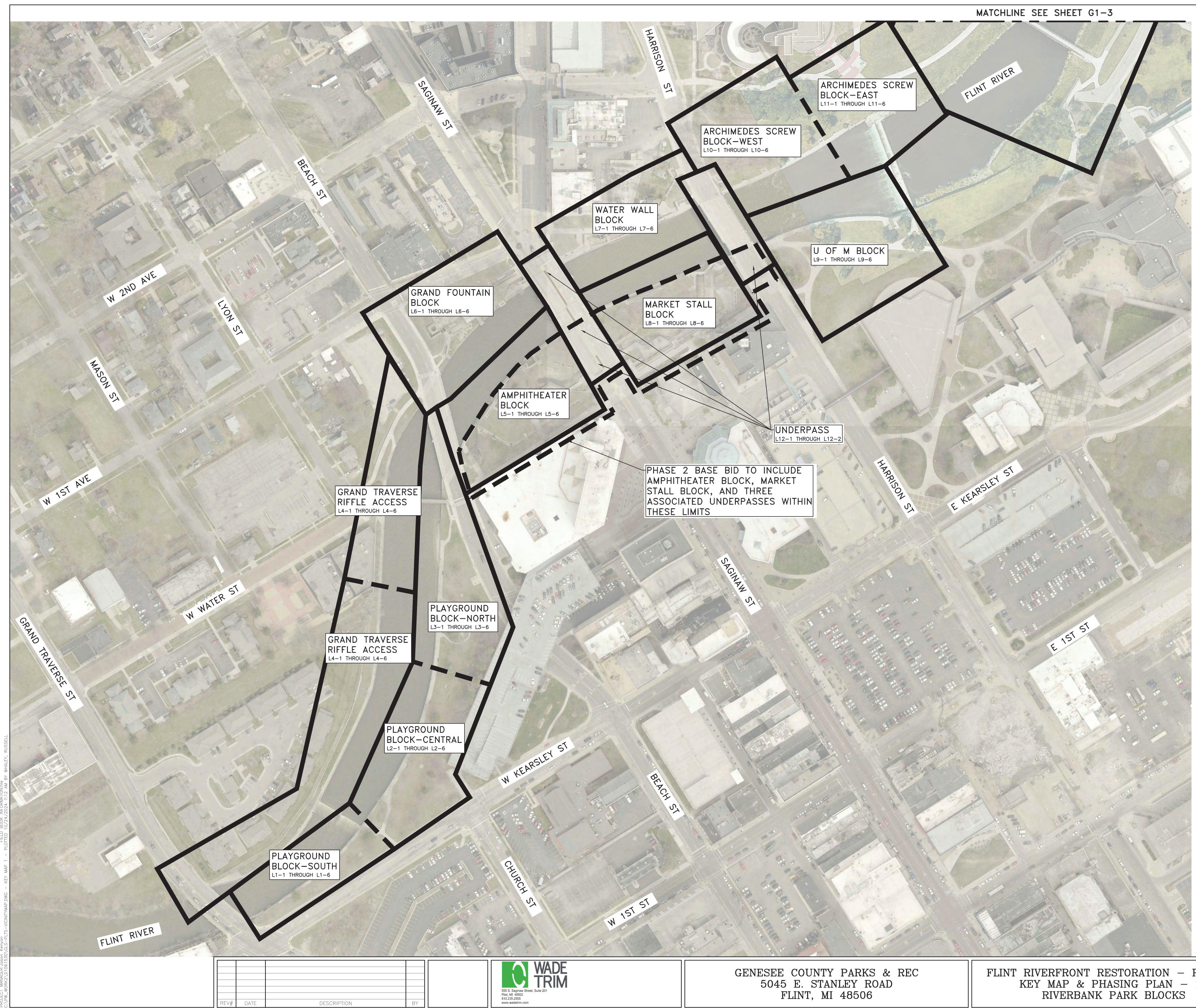




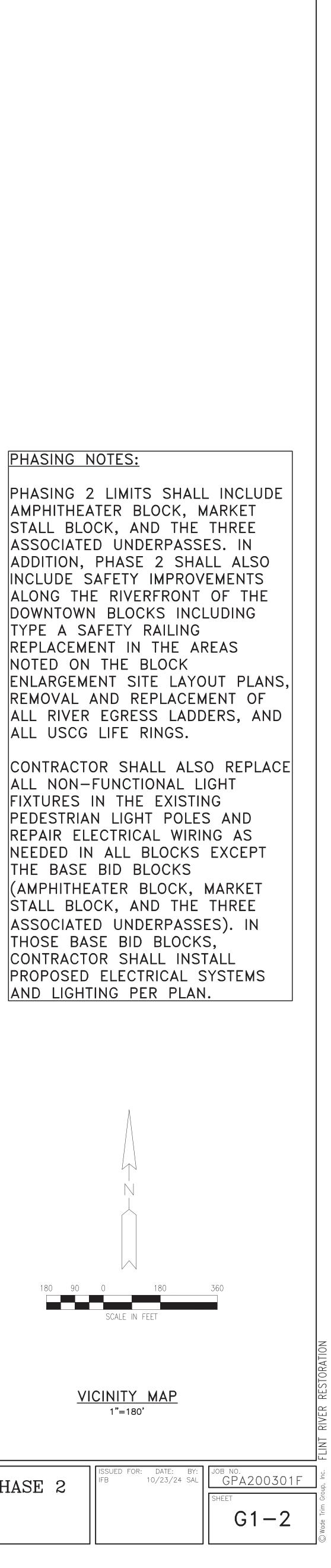
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E-0.1 ELECTRICAL LEGEND, TABLES AND GENERAL NO	ſES
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E2.1 ELECTRICAL SPECS	
MOT-1 MAINTENANCE OF TRAFFIC	
MOT-2 MAINTENANCE OF TRAFFIC	
MOT-3 MAINTENANCE OF TRAFFIC	
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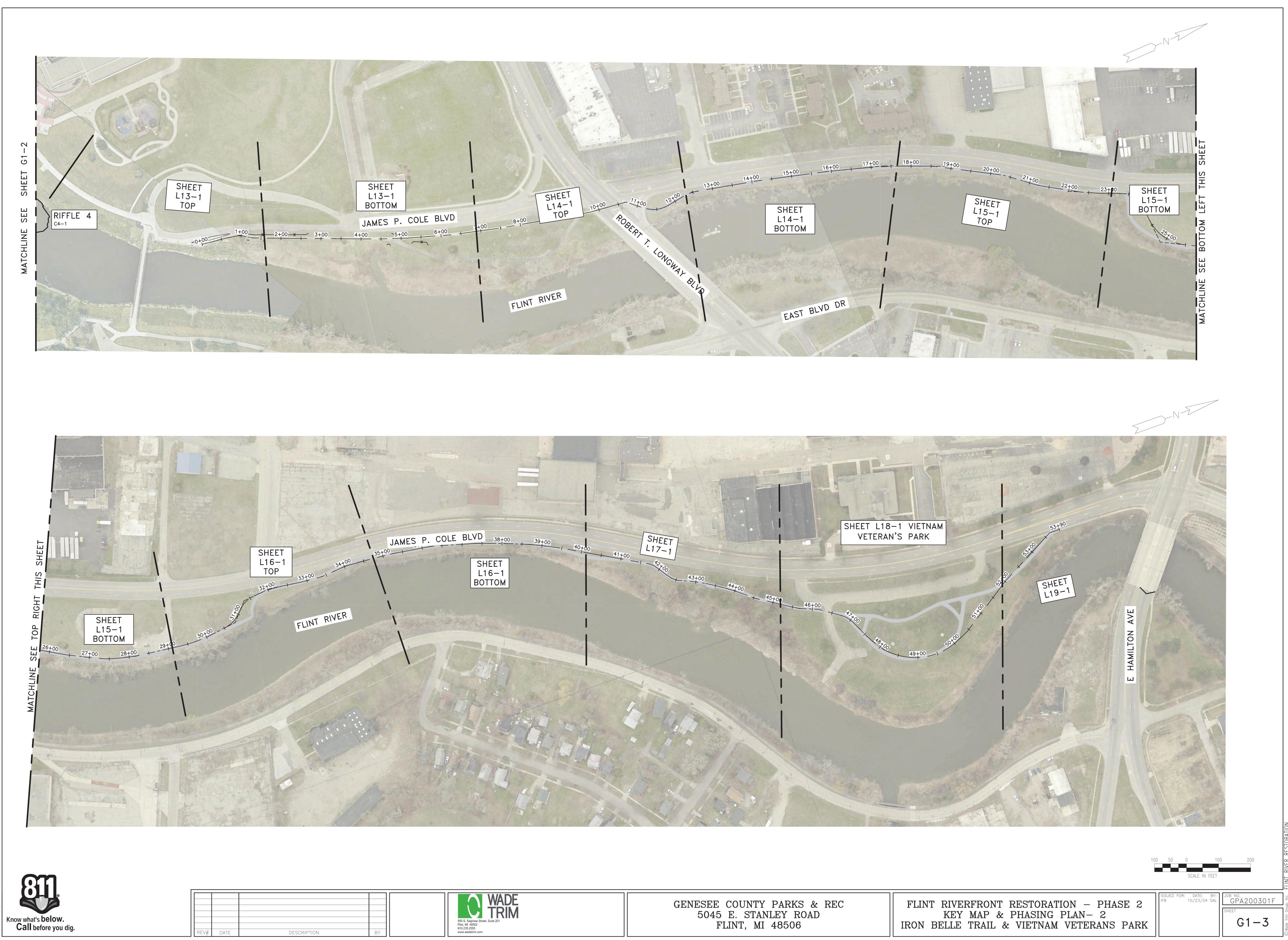
GENESEE COUNTY PARKS & REC 5045 E. STANLEY ROAD FLINT, MI 48506 FLINT RIVERFRONT RESTORATION - PHASE 2

ISSUED FOR: DATE: BY: IFB 10/23/24 SAL JOB NO. GPA200301F SHEET	© Wade Trim Group, Inc. FLINT RIVER RESTORATION



PHASING NOTES:





	EXISTING	<u>PROPOSED</u>	
CABLE TV	~	~	SANITARY SEWER
CABLE TV POLE	Ø	Ø 	CLEAN OUT
CABLE TV PEDESTAL	CT	CT	PUMPSTATION MANHOLE
OVERHEAD CABLE TELEVISION -	CTV CTV	CTVCTV	SANITARY MANHOLE
UNDERGROUND CABLE TELEVISION -	UCTVUCTV	UCTV	SEPTIC TANK
			SEWER VENT
ELECTRICAL			SEWER VALVE
CIRCUIT BREAKER PANEL	E CBP	E CBP	FORCEMAIN
HANDHOLE	° <sub>EH</sub>	о <sub>ЕН</sub>	
MANHOLE	Ē	Ē	SANITARY SEWER (<24"Ø)
OUTLET	A	æ	SANITARY SEWER (>24"ø;
PEDESTAL	PP	PP	SITE (MISCELLANEOUS
TRANSFORMER BOX	E	Ε	ABANDON ITEM
METER	° <sub>EM</sub>	° <sub>EM</sub>	ACCESSIBLE SYMBOL
POWER POLE	Ø	Ø	ADJUST ITEM
TRANSFORMER TOWER	$\boxtimes$	$\boxtimes$	FINISH GRADE
OVERHEAD ELECTRIC -	——— E-——— E-———	——Е——Е——	
UNDERGROUND ELECTRIC -	UEUE	UE	FLOW ARROW
UNDERGROUND ELECTRIC -	UEUE		PARKING COUNT
			RECONSTRUCT ITEM
GAS			RELOCATE ITEM
VENT	<> <sub>VT</sub>	ŶŢ	REMOVE ITEM
BLOW OFF	SBO	<>B0	ALMOTE HEM
FILLER PIPE	<>_R	R	
MANHOLE	6	G	
METER			
	⇔ <sub>GM</sub>	∽ <sub>GM</sub>	LANDSCAPE BOULDER
STOP BOX	$\diamond$	$\diamond$	BARRIER BOULDER
SHUTOFF VALVE	⇔ <sub>GV</sub>	⇔ <sub>GV</sub>	
GAS –	GG	GG	RIVER EGRESS LADDER
			LITTER BIN
MONUMENTS			
IRON (FOUND)	●IR		
			STORM SEWER/DRAIN
IRON (SET)	OIR		CATCH BASIN (ROUND GRA
BENCH MARK	BM <sup>+</sup>		CATCH BASIN (SQUARE GF
BRASS PLATE	•		CISTERN
CONCRETE NAIL	CN		BOX CULVERT
DRILL HOLE	° <sub>DH</sub>		
GOVERNMENT CORNER			CULVERT HEADWALL
			CULVERT END SECTION
GPS MONUMENT	GPS		DOWN SPOUT
IRON PIPE	0 <sub>IP</sub>		ROUND INLET
MONUMENT BOX	BOX		SQUARE INLET
MONUMENT	۲		STORM MANHOLE
MERE STONE	<b>@</b> MS		
NGS MONUMENT	() NGS		STORM SEWER STUB
			DITCH CENTERLINE
NAIL & TAG	° <sub>N&amp;T</sub>		STORM SEWER (<24"ø)
PINCH IRON	+ <sub>PI</sub>		STORM SEWER (>24"ø; so
PK NAIL	о <sub>рк</sub>		
RAILROAD SPIKE	7 <sub>RS</sub>		TELEPHONE
RIGHT-OF-WAY MARKER	□ <sub>R/W</sub>		
SPIKE			TELEPHONE POLE
	• SPK		TELEPHONE MANHOLE
SHIPS SPIKE	0		TELEPHONE PEDESTAL
T-IRON			COMMUNICATIONS HANDHO
USGS MONUMENT			FIRE CALL
CROSS CUT	×		POLICE CALL
CROSS CUT IN MONUMENT			
			PHONE BOOTH
WOOD STAKE	₽ws		OVERHEAD TELEPHONE
			UNDERGROUND TELEPHONE
OVERHEAD UTILITIES			
DEADMAN ANCHOR	O <sub>DA</sub>	O DA	TOPOGRAPHIC FEATUR
FLOOD LIGHT	-¢-	*	AIR CONDITION UNIT UNIT
GUY WIRE ANCHOR	GA	O <sub>GA</sub>	
GUY POLE			
	° <sub>GP</sub> ∽∕	° <sub>GP</sub> ❤	BASKET BALL POST
LAMP POLE	X	×	BATTERY BOX
METAL LIGHT POLE	X	X	BILLBOARD SIGN BASE
ORNAMENTAL LIGHT	X	×	CAMERA TOWER
POLE BOX	(P)	P	CLIMBING BARS
POWER & LIGHT POLE	Ŕ	<u> </u>	
			COLUMN
POWER & TELEPHONE POLE	P	₩	FENCE CORNER
TELE, CTV, PWR & LIGHT POLE	Хтср	<b>Діс</b> р	FILL PORT
TELE, CTV, & POWER POLE	Ø <sub>tcp</sub>	Ø <sub>tcp</sub>	FLAG POLE
TELE, & CTV POLE	1 TCP	© TCP	
			FOUNTAIN
TELE, CTV, & LIGHT POLE	X	) 図	GAS PUMP
TELE,. & LIGHT POLE	X	X	HEAT_PUMP GAS_TANK_(UNDERGROUNE
TELE, POWER, & LIGHT POLE	ÌŔ	闽	
MONO POLE	(PT)		
UTILITY POLE	Ø	Ø	
UNLIN FULL	$\subseteq$	<u>س</u>	
OVERHEAD CABLE TV & TELEPHONE -	CTV&T		
	CTV&T E&CTV		

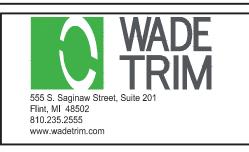
DESCRIPTION

REV# DATE

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	<u>EXISTING</u>	PROPOSED
TOPOGRAPHIC FEATURES (COI	<u>NT.)</u>	
HIGHWAY DELINEATOR	°HD	
LIGHT POLE BASE	®	
AIL BOX MERRY-GO-ROUND	П <sub>МВ</sub>	
MONITORING WELL		
NEWSPAPER BOX	₩well	
OIL WELL	<>ow ow	
PARKING METER	0 <sub>PM</sub>	
PIER		
PILING	© <sub>PL</sub>	
POST (ROUND)	P	
POST (SQUARE) ROCK	P	
RAILROAD SIGNAL	<sup>О</sup> коск	
SATELLITE DISH	۲	
SIGN POST	o <sub>s</sub>	
SLIDE (SPIRAL)	$\overline{\bigcirc}$	
SLIDE (STRAIGHT)		
SLIDE END	E	
SLIDE STEPS		
SOIL BORING SPRINKLER HEAD	● <sub>SB</sub> ○ <sub>SH</sub>	
SPRINKLER JUNCTION BOX	SH	
STATUE	Δ	
SWING SET END	$\langle$	
TETHER BALL POLE	0 <sub>TP</sub>	
TRAFFIC SIGNAL	0	
UNDERGROUND MARKER	OM	
U/G MARKER CABLE U/G MARKER ELECTRIC	° <sub>M−C</sub>	
U/G MARKER FIBER OPTIC	M-L O <sub>M-FO</sub>	
U/G MARKER GAS	⊖ <sub>M−G</sub>	
U/G MARKER TELEPHONE	° <sub>M−T</sub>	
VOLLEY BALL POST	0 <sub>VP</sub>	
WOOD STAKE	¶ws ₩	ч
RIVER EGRESS LADDER PARK BLOCK SIGN	jí ⊥⊥	其
UNDERGROUND UTILITIES UTILITY MANHOLE	Ű	
FIBER OPTIC	F0F0	
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UNDERGROUND CTV & TELEPHONE	UCTV&T	_
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UNDERGROUND ELECTRIC, CABLE TV AND TELEPHONE		
VEGETATION		
CONIFEROUS BUSH	*	
CONIFEROUS TREE	2M2	
DECIDUOUS BUSH	(b)	
DECIDUOUS TREE		
MULTI-STEM CONIFEROUS TREE	MS MS	
STUMP		
BRUSH LINE		<u> </u>
EDGE OF WOODS		$\frown$
HEDGE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$
TREE ROW	-\$\$\$-	
WATED (DOMESTIC)		
WATER (DOMESTIC) 45° BEND	+ <sub>X</sub>	+ <sub>X</sub>
AIR RELEASE VALVE		æ
BACKFLOW PREVENTER		
BLOW-OFF VALVE		$\mathcal{O}$
FAUCET	O <sub>WF</sub>	O <sub>WF</sub>
FIRE DEPARTMENT CONNECTION	$\frown$	Ŷ
FIRE HYDRANT ACCESS MANHOLE	A	
GATE VALVE WITH OFFSET OPERATOR	7	
CORROSION TEST STATION		$\mathbf{A}$

SPOT GRADE



	EXISTING	PROPOSED
WATER (DOMESTIC) (CONT.) GATE VALVE & BOX	$\otimes$	Θ
GATE VALVE & WELL	$\oslash$	$\oslash$
GATE VALVE & WELL (DETROIT)	Ø	Ø <sub>D</sub>
INDICATOR VALVE POST	с <sub>р</sub> 8	с <sub>р</sub> 8
METER		
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WATER LINE STUB	WLS	
WATER TOWER BASE	+ WATER TOWER	
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SHUT OFF VALVE	₩S0	WSO
DOMESTIC WATER (<24"Ø)		
DOMESTIC WATER (>24"ø; scaled)		
WATER (MISC.)		
RECLAIM WATER GATE VALVE	$\bigotimes_{REC}$	<b>e</b> <sub>REC</sub>
SPRINKLER HEAD	0 <sub>SH</sub>	
SPRINKLER JUNCTION BOX		
RECLAIM WATER		REC
WATER MAIN BORE & JACK		
LINE WORK		
BOUNDARY LINE		
BUILDING		
BUILDING SETBACK		
CHAIN LINK FENCE	— <u> </u>	
CONTOUR (MAJOR)	595	595
CONTOUR (MINOR)		
FIELD	——— F——— F———	
FLOODPLAIN	FLP	FLP
GARDEN	GDGD	
GRAVEL		
GUARDRAIL		<u> </u>
LANDSCAPE	LSLS	
PROPERTY LINE		
RAILROAD TRACK CENTERLINE		
RIGHT OF WAY		
SECTION LINE		
SHORE LINE		
TO BE DEMOLISHED		· x·x·x·x·x·x·x·x·x·x·x·x·x·x·
TOP OF BANK		
UTILITY/DRAINAGE EASEMENT		
EXISTING CONCRETE ARCH		
REMOVE RIVER FLOOD WALL		
NEW WALL		
EXISTING HANDRAIL	——————————————————————————————————————	
NEW HANDRAIL TYPE A NEW HANDRAIL TYPE B		<u> </u>
WETLAND		
MISCELLANEOUS		
TAX ID NUMBER HOUSE NUMBER	120-033-400-010-01 9022 FISHER RD	
SOIL EROSION KEY NOTE		29
SILT FENCE	-	
STATIONING	6+00 I	7+00
TEMPORARY WETLAND IMPACT REFER TO CONTRACT DOCUMENTS	APPROX	WETLAND BOUNDARY (NO. 36.1)
GRADING		
TOP OF WALL		× 1234.56
BOTTOM OF WALL		T/W 1234.56
MATCH GRADE		▲ B/W ▲ 1234.56
SLOPE LABEL		
SLOPE LABEL		1.00%

× 1234.56

<u>PATTERNS (PLAN)</u> CONCRETE REINFORCED CONCRETE PAVEMENT COLORED CONCRETE EXPOSED AGGREGATE CONCRETE HEAVY DUTY PAVEMENT CRUSH AND SHAPE AND 2" HMA PAVEMENT ADA DETECTABLE WARNING ADA RAMP CONCRETE REMOVAL PAVEMENT REMOVAL/DAM FOUNDATION REMOVAL STANDARD PAVER PERMEABLE PAVER STAGING RIVER ACCESS STONE WETLAND DAM DEMOLITION EXTENTS DAM DEMOLITION EXTENTS <u>LIGHTING</u> LIGHT POLE HANDRAIL LIGHTS IN-GRADE AT TUNNELS NEW FEATURE LIGHTING POLE + NEW FLOODLIGHTS RELOCATED FEATURE LIGHTING POLE + NEW FLOODLIGHTS SD-R EXISTING POLE + NEW FLOODLIGHTS LIGHTED BOLLARD SOLAR MARKER LIGHT

<u>EXISTING</u>

PATTERNS (TYPICAL CROSS SECTIONS)

EARTH

GRAVEL/AGGREGATE

WALL-RECESSED MARKER LIGHT HANDHOLE

PROPOSED × × × × × × × × × × × × × SA - TYPE SA SB TYPE SB SC TYPE SC SD-N 📤 TYPE SD-N SD-E TYPE SD-E TYPE SE SE 🔴 SF 🔴 TYPE SF sg TYPE SG НН **DRATION** ISSUED FOR: DATE: BY: IFB 10/23/24 SAL GPA200301F G1 - 4

1. CONSTRUCTION PLANS, STANDARD SPECIFICATIONS & STANDARD DETAILS

ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE FINAL APPROVED CONSTRUCTION PLANS, THE SPECIFICATIONS AND SUPPLEMENTARY CONDITIONS, AND THE STANDARD DETAILS HEREIN. ANY DEVIATIONS FROM THESE DOCUMENTS WILL NOT BE PERMITTED, UNLESS OTHERWISE APPROVED BY THE OWNER OR ENGINEER.

2. BONDS AND INSURANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A PERFORMANCE BOND, A LABOR AND MATERIAL PAYMENT BOND, AND ALL INSURANCE DOCUMENTS TO THE OWNER, AS REQUIRED BY THE CONTRACT DOCUMENTS. UPON COMPLETION OF THE WORK, AND PRIOR TO FINAL APPROVAL, THE CONTRACTOR SHALL FURNISH THE OWNER WITH THE REQUIRED MAINTENANCE AND GUARANTEE BONDS, AS REQUIRED BY THE CONTRACT DOCUMENTS.

3. PRE-CONSTRUCTION MEETING A PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO BEGINNING THE WORK. NO PRE-CONSTRUCTION MEETING SHALL BE HELD PRIOR TO OBTAINING CONSTRUCTION PERMITS. THE MEETING'S TIME, PLACE, AND ATTENDEES SHALL BE ARRANGED BY THE ENGINEER. THE MUNICIPALITY, THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS, PROJECT OWNER, CONTRACTOR, AND ANY AFFECTED UTILITIES SHALL BE INVITED, AS A MINIMUM, TO THE PRE-CONSTRUCTION MEETING.

4. CONSTRUCTION STAKING CONTRACTOR WILL PROVIDE A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF MICHIGAN, TO PROVIDE ALIGNMENT AND GRADE STAKES, AND CUT SHEETS. THE SURVEYOR SHALL PROVIDE GRADE STAKES AND CUT SHEETS AT ALL STRUCTURES AND AT A MAXIMUM OF 50' INTERVALS BETWEEN STRUCTURES, AND AS NECESSARY FOR CONSTRUCTION OF HARDSCAPE IMPROVEMENTS AND IN-RIVER WORK.

5. SHOP DRAWINGS PRIOR TO THE START OF THE WORK. THE CONTRACTOR SHALL FURNISH TO OWNER SHOP DRAWINGS AND/OR CATALOG CUTS FOR ALL MATERIALS AND EQUIPMENT ITEMS USED IN THIS PROJECT PER THE SPECIFICATIONS. 6. MATERIAL CERTIFICATIONS

PRIOR TO THE START OF THE WORK, THE CONTRACTOR SHALL FURNISH MATERIAL CERTIFICATES FOR ALL MATERIALS USED DURING THE WORK TO OWNER.

7. NON-STOPPAGE CLAUSE

THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP THE WORK FOR EXTENDED PERIODS ONCE THE WORK HAS BEGUN WITHOUT WRITTEN APPROVAL OF OWNER.

8. MISS DIG UTILITY ALERT

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 1.800.482,7171 OR 811 OR GO TO WWW.MISSDIG.ORG A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS. SUNDAYS. AND HOLIDAYS PRIOR TO BEGINNING EACH DRIVEN SIGN LOCATION AND EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM

## 9. FIELD LOCATION OF UTILITIES

PRIOR TO BEGINNING THE WORK. THE CONTRACTOR SHALL BE REQUIRED TO EXPOSE ALL EXISTING UTILITIES THAT CROSS THE PROPOSED CONSTRUCTION. SO THE ENGINEER MAY DETERMINE IF A VERTICAL CONFLICT EXISTS BETWEEN AN EXISTING UTILITY AND THE PROPOSED WORK. ALL LABOR REQUIRED TO UNCOVER THE EXISTING UTILITY SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM . THE CONTRACTOR SHALL VERIFY THE DEPTH AND HORIZONTAL LOCATIONS OF ALL UTILITIES IN SUFFICIENT TIME SUCH THAT ANY CONFLICTS CAN BE RESOLVED BEFORE WORK IS STARTED IN THAT PORTION OF THE PROJECT. THE CONTRACTOR SHALL ARRANGE FOR THE VARIOUS UTILITY OWNERS TO LOCATE, REMOVE AND REPLACE, OR RELOCATE THEIR FACILITIES. ALL COSTS FOR THIS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

10. UTILITY INFORMATION

UTILITY INFORMATION IS DELINEATED IN ACCORDANCE WITH THE LOCATIONS PROVIDED BY UTILITY OWNERS. THE ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION OR THE LOCATION AT WHICH THESE ARE SHOWN ON THE CONSTRUCTION PLANS. DIFFERING FIELD CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER. 11. EXISTING UTILITIES

THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SANITARY SEWER, PRESSURE PIPE. STORM SEWER. GAS. TELEPHONE, FIBER OPTIC, CABLE, OR ELECTRICAL CONNECTIONS IN SERVICE THROUGHOUT THE WORK. THE CONTRACTOR SHALL PROVIDE OR ARRANGE FOR THE TEMPORARY SUPPORT OF EXISTING UTILITIES WHERE NEEDED. PROTECTION OF EXISTING SANITARY SEWER AND OTHER UTILITIES ARE INCIDENTAL TO THE PROJECT. ALL UTILITIES DAMAGED OR REMOVED, OR RELOCATED BY THE CONTRACTOR AND NOT SHOWN AS BEING REMOVED. REPLACED OR RELOCATED ON THE CONTRACT DRAWINGS SHALL BE REPLACED WITH THE SAME SIZE AND QUALITY PIPE BY THE CONTRACTOR AT CONTRACTOR'S SOLE EXPENSE. ALL UTILITIES UNDERMINED BY THE EXCAVATION SHALL HAVE COMPACTED SAND BACKFILL PLACED UNDER THEM, UNLESS MDOT 6AA CRUSHED LIMESTONE (A1) OR MDOT 22A GRAVEL (A2) IS SHOWN ON THE CONSTRUCTION PLANS. ALL WORK TO ACCOMMODATE CONSTRUCTION TO CLEAR EXISTING SERVICES SHALL BE INCLUSIVE TO THE PROJECT UNLESS OTHERWISE NOTED. 12 IRRIGATION SYSTEMS & FIELD TILES

THE CONTRACTOR SHALL CONTACT UM FLINT TWO (2) WEEKS IN ADVANCE OF THE PROPOSED WORK TO DETERMINE IF MODIFICATIONS OF ANY IRRIGATION SYSTEMS AND/OR FIELD TILES ARE REQUIRED WITHIN THE VICINITY. IF MODIFICATIONS ARE NECESSARY, THE CONTRACTOR MUST NOTIFY UM FLINT IN WRITING, WITH A COPY OF THE LETTER TO THE ENGINEER, TO COORDINATE THE NECESSARY MODIFICATIONS. 13. SUBSURFACE SOIL CONDITIONS

PRIOR TO BIDDING. THE CONTRACTOR SHALL MAKE A PERSONAL INVESTIGATION OF THE SITE AND EXISTING SURFACE. THE CONTRACTOR SHALL ACQUAINT THEMSELVES WITH CONDITIONS OF THE WORK AREA. THE CONTRACTOR IS ADVISED TO DETERMINE THE SUBSURFACE SOIL AND GROUND WATER CONDITIONS PRIOR TO START OF WORK. DEWATERING, IF DETERMINED NECESSARY BY THE CONTRACTOR, AND IF NOT SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS, WILL BE INCLUDED IN THE COST OF THE PIPE INSTALLATION.

14. PERMITS AND FEES

THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING THE PAYMENT OF ANY FEES OR BONDS, REQUIRED BY ANY FEDERAL, STATE, COUNTY, LOCAL, OR PRIVATE ORGANIZATIONS AND UTILITIES PRIOR TO

COMMENCING WORK. PROVIDE FINAL WRITTEN APPROVAL AND RELEASE OF PERMITS FROM ALL GOVERNING AGENCIES TO OWNER AND ENGINEER. 15. STATE CONSTRUCTION PERMITS CONSTRUCTION SHALL NOT BEGIN UNTIL THE REQUIRED MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE) CONSTRUCTION PERMITS HAVE BEEN OBTAINED.

16. ROADWAY PERMITS

A PERMIT FROM THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS IS REQUIRED FOR ALL CONSTRUCTION WITHIN ANY ROAD RIGHT-OF-WAY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ALL NECESSARY PERMITS, POST ALL NECESSARY BONDS, PAY ALL FEES, AND OBTAIN ANY REQUIRED INSURANCES IN CONNECTION THEREWITH.

17. SOIL EROSION CONTROL, PART 91 OF P.A. 451 OF 1994 THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF PART 91, ACT 451 OF P.A. 1994 FOR SOIL EROSION AND SEDIMENTATION CONTROL (SESC), AND WILL BE RESPONSIBLE FOR ALL MAINTENANCE UNTIL THE FINAL ACCEPTANCE OF THE PERMANENT CONTROL MEASURES BY THE GENESEE COUNTY DRAIN COMMISSIONER DIVISION OF WATER AND WASTER SERVICES (GCDC-WWS). THE CONTRACTOR IS REQUIRED BY THE OWNER TO PREPARE AND SUBMIT A SOIL EROSION AND SEDIMENTATION CONTROL PLAN IN ORDER TO OBTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT, AND TO PAY ANY APPLICATION FEES AND BOND FEES NECESSARY TO OBTAIN THE PERMIT.

18. SOIL EROSION AND SEDIMENTATION CONTROL RELEASE PRIOR TO FINAL ACCEPTANCE BY GOVERNING AGENCY, THE CONTRACTOR SHALL REQUEST A FINAL INSPECTION OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND RECEIVE WRITTEN APPROVAL FROM GOVERNING AGENCY. THE SOIL EROSION AND SEDIMENTATION CONTROL BOND WILL BE RELEASED UPON GOVERNING AGENCIES FINAL APPROVAL AND ACCEPTANCE OF THE NPDES.

19. STORM WATER DRAINAGE DURING THE WORK THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A CERTIFIED STORM WATER OPERATOR AND COMPLY WITH THE PROVISIONS OF THE NPDES AND SESC PERMITS. THE CONTRACTOR SHALL MAINTAIN DITCH DRAINAGE DURING CONSTRUCTION AND SHALL NOT OBSTRUCT SUMP PUMP LEADS DISCHARGING INTO THE DITCH. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL STORM SEWER FACILITIES, SUCH AS CATCH BASINS AND CULVERTS, DURING THE WORK. CULVERTS, CATCH BASINS, AND STORM SEWERS CONTAMINATED DURING THE WORK SHALL BE CLEANED.

20. DISPOSAL OF EXCESS EXCAVATED MATERIAL 21. CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS AND WRITTEN PERMISSIONS FOR DISPOSAL OF EXCESS EXCAVATED MATERIAL. ALL EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR WITH ALL PERMITS, PERMISSIONS, AND LOCATIONS PROVIDED BY THE CONTRACTOR. 22. WORK OBSERVATION

ALL WORK SHALL BE PERFORMED UNDER THE OBSERVATION OF A CONSTRUCTION OBSERVER FROM OWNER, LOCAL MUNICIPALITY HAVING JURISDICTION, AND/OR GOVERNING AGENCY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OBSERVING AGENCIES THREE (3) WORKING DAYS OR 72 HOURS PRIOR TO STARTING CONSTRUCTION TO ARRANGE FOR ON-SITE OBSERVATION AND TESTING. CUT SHEETS FOR ALL PIPE INSTALLATION AND RE-DITCHING SHALL BE PROVIDED TO THE GOVERNING AUTHORITY AND CONSTRUCTION OBSERVER A MINIMUM OF 24 HOURS PRIOR TO STARTING THE WORK WITH RESPECT TO THAT UTILITY. OWNER, LOCAL MUNICIPALITY HAVING JURISDICTION, OR GOVERNING AGENCY SHALL BE NOTIFIED FOR A FINAL INSPECTION. 23. MIOSHA SAFETY REQUIREMENTS

ALL WORK, WORK PRACTICE AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL SAFETY GUIDELINES, OCCUPATION, HEALTH AND ENVIRONMENTAL REGULATIONS, AND ALSO NFPA AND ANSI CODES AS APPLICABLE. ALL WORK INSIDE A CONFINED SPACE, SUCH AS THE PIPE LINE, MANHOLES OR OTHER UNDERGROUND STRUCTURES. SHALL BE COORDINATED WITH THE UTILITY OWNER, AND ALL WORKER SAFETY REQUIREMENTS STRICTLY ENFORCED. THE CONTRACTOR, SHALL HAVE ITS SAFETY PLAN ON FILE WITH OWNER, INSPECTOR, AND ONE COPY ON SITE AT ALL TIMES. 24. PROTECTION OF HAZARDOUS AREAS EXCAVATION AND HAZARDOUS AREAS SHALL BE PROTECTED BY BARRICADES, SNOW FENCE, OR OTHER APPROPRIATE MEANS. BARRICADES LEFT IN PLACE AFTER DARK SHALL BE LIGHTED.

25. NOISE AND DUST CONTROL THE CONTRACTOR SHALL CONTROL NOISE, CARRY OUT A PROGRAM OF DUST CONTROL, AND SHALL ALLOW NO ON-SITE BURNING WITHOUT APPROVAL FROM LOCAL FIRE DEPARTMENT.

26. TRAFFIC CONTROL

THE CONTRACTOR SHALL EXECUTE THE WORK IN A MANNER SUCH THAT TRAFFIC IS MAINTAINED AND ACCESS IS PROVIDED TO ALL RESIDENCES, BUSINESSES. AND COMMERCIAL ESTABLISHMENTS. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS AND THE CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE REQUIREMENTS OF THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS, OR AS DIRECTED BY THE ENGINEER. 27. SIGNING AND BARRICADING

SIGNING AND BARRICADING SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE DETAILS ON THE PLANS, THE CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE REQUIREMENTS OF THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS. SIGNS AND BARRICADES LEFT IN PLACE AFTER DARK SHALL BE LIGHTED. 28. ROADWAY REQUIREMENTS FOR UTILITY CONSTRUCTION THE CONTRACTOR SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE CONSTRUCTION PLANS FOR MAINTAINING TRAFFIC, BARRICADING, BORING, BACKFILLING AND RESTORATION WITHIN THE ROAD RIGHT-OF-WAY.

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28. OPEN CUTTING OF STATE/COUNTY/LOCAL ROADS WHEN OPEN CUTTING OF GRAVEL OR HARD SURFACED ROADS ARE INCORPORATED INTO THE PROJECT, THE CONTRACTOR SHALL OBTAIN THE APPROVAL AND COMPLY WITH ALL OF THE REQUIREMENTS OF THE AGENCY HOLDING THE PERMIT OVER THE ROADWAYS, AND TO THE CONSTRUCTION PLANS, SPECIFICATIONS AND DETAILS. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR TO DOCUMENT EXISTING SIGN AND PAVEMENT MARKING LOCATIONS. CONTRACTOR TO RESTORE IN KIND AND PLACE FOLLOWING COMPLETION OF ROAD PAVING AND RESTORATION.

29. GRAVEL ROAD CONTAMINATION BY THE WORK

IF IT IS DETERMINED BY THE AGENCY HAVING AUTHORITY OVER THE ROADWAYS THAT GRAVEL ROADS HAVE BECOME CONTAMINATED DURING THE WORK, THE ROAD MUST BE REPAIRED PER THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND STANDARD DETAILS. WHERE THE EXISTING ROAD GRAVEL IS REMOVED BECAUSE OF THE WORK, ALL WORK AND MATERIALS SHALL MEET THE REQUIREMENTS, SPECIFICATIONS AND STANDARD DETAILS HEREIN. IF IT IS DETERMINED BY THE AGENCY HOLDING THE PERMIT OVER THE ROADWAY AND MUTUALLY AGREED UPON BY THE ENGINEER THAT GRAVEL ROAD PORTIONS THAT WERE TO REMAIN HAVE BEEN CONTAMINATED BY THE WORK, THE CONTRACTOR SHALL RE-GRAVEL PER THE CONSTRUCTION PLANS, SPECIFICATIONS AND DETAILS.

30. RESTORATION OF GRAVEL SHOULDERS

IF IT IS DETERMINED BY THE AGENCY HOLDING THE PERMIT OVER THE ROADWAYS THAT GRAVEL SHOULDERS HAVE BEEN CONTAMINATED BY THE WORK, THE CONTRACTOR SHALL RE-GRAVEL PER THE CONSTRUCTION PLANS, SPECIFICATIONS AND DETAILS.

31. COMPACTED GRANULAR BACKFILL FOR ROADWAYS, DRIVES, ETC.

ALL TRENCH EXCAVATION WITHIN A ONE-ON-ONE ZONE OF INFLUENCE OF A ROADWAY, DRIVEWAY CROSSINGS, PARKING LOTS, OR AS OTHERWISE NOTED ON THE PLANS, SHALL BE BACKFILLED PER THE SCHEDULE OF BACKFILLING, FOUND IN THE SPECIFICATIONS AND DETAILS. IN ADDITION, SEE THE SPECIFICATIONS FOR THE REQUIREMENTS FOR THE COMPACTION PLAN. PROVIDE SATISFACTORY RESULTS OF DENSITY CHECKS ON COMPACTED SAND BACKFILL FROM CERTIFIED TESTING AGENCY.

32. TREE PROTECTION

INSTALL TREE PROTECTION FENCE AROUND DRIPLINES OF TREES TO BE PROTECTED. ALL WORK DONE INSIDE PROTECTED TREE DRIPLINES, INCLUDING GRUBBING AND RESTORATION, SHALL BE DONE BY HAND. TREE REMOVAL SHALL BE LIMITED TO THE TREES DESIGNATED AS TO BE REMOVED ON THE PLANS. IF TREES OR TREE ROOTS ARE DAMAGED IN THE FIELD, CONTRACTOR SHALL REPLACE TREE IN KIND.

**33. SURFACE RESTORATION** 

ALL DISTURBED AREAS SHALL BE COMPLETELY RESTORED IN STRICT COMPLIANCE WITH THE SOIL EROSION AND SEDIMENTATION CONTROL (SESC) PLANS AND SPECIFICATIONS, AND TO THE SATISFACTION OF OWNER, GOVERNING AGENCY, COUNTY ROAD COMMISSION, MDOT, THE LOCAL MUNICIPALITY, AND THE PROPERTY OWNER. ALL COSTS FOR THE CLEANUP, RESTORATION WORK, AND OTHER INTERMEDIATE OPERATIONS INCLUDING BUT NOT LIMITED TO, CONSTRUCTION SIGNAGE, STREET SWEEPING, AND MAINTAINING EXISTING UTILITIES, SHALL BE CONSIDERED INCLUSIVE AND AT NO ADDITIONAL COST TO OWNER. AREAS DISTURBED DURING THE WORK SHALL RECEIVE A MINIMUM 4" APPLICATION OF SCREENED TOPSOIL, FERTILIZER, SEED, AND MULCH. CONTRACTOR SHALL STRIP TOPSOIL DURING DEMOLITION OPERATIONS AND REUSE DURING FINAL SURFACE RESTORATION. ALL EXCESS MATERIALS, DEBRIS, AND SIMILAR ITEMS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH THE LAW. ALL GROUND SURFACES SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER PRIOR TO FINAL APPROVAL. RESTORATION ACTIVITIES SHALL BE NOT FURTHER THAN 500 FT BEHIND CONSTRUCTION ACTIVITIES UNLESS PRIOR WRITTEN APPROVAL HAS BEEN OBTAINED FROM OWNER/ENGINEER.

34. FINAL ELEVATIONS OF SURFACE UTILITIES

ALL FINAL ELEVATIONS OF MANHOLE CASTINGS, HYDRANTS, VALVES, AND VALVE BOXES SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD. ANY ADJUSTMENTS THAT ARE MADE SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.

35. AS-BUILT INFORMATION

UPON COMPLETION OF THE WORK AND PRIOR TO FINAL APPROVAL FROM THE OWNER, THE CONTRACTOR SHALL FURNISH OWNER WITH ONE (1) COMPLETE SET OF AS-BUILTS PLANS.

AS-BUILTS SHALL BE SUBMITTED TO OWNER AND FOR THE REVIEW AND APPROVAL OF OWNER/ENGINEER AND SHALL INCLUDE BUT NOT BE LIMITED TO: INVERT OF PIPES, LOCATION OF MANHOLES, PIPE LENGTHS, SLOPES OF PIPE, LOCATION OF ANY LATERAL LINES, LOCATION OF MAINLINE VALVES, AIR RELEASE VALVES, BLOWOFFS, BENDS, TEES, AND CROSSES. LOCATIONS MUST BE PROVIDED IN GPS STATE PLANE COORDINATES (NAD 83), AND ELEVATIONS SHALL BE PROVIDED IN NAVD88 DATUM. THIS INFORMATION SHALL BE GATHERED BY THE CONTRACTOR'S PROFESSIONAL LAND SURVEYOR, AT ITS SOLE EXPENSE. THESE AS-BUILTS SHALL ALSO INCLUDE ANY ADDITIONAL INFORMATION COLLECTED BY THE OWNER OR MUNICIPAL CONSTRUCTION OBSERVER.

IN ADDITION TO THE AS-BUILTS, THE CONTRACTOR SHALL PROVIDE TO OWNER AN ELECTRONIC DATA SET IN A MICROSOFT EXCEL SPREADSHEET DETAILING ALL OF THE ABOVE MENTIONED ITEMS WITH GPS COORDINATES AND ELEVATIONS IN NAVD88 DATUM.

36. CONTRACTOR SHALL PREPARE COMMUNICATION PLAN FOR EMERGENCIES PRIOR TO THE START OF CONSTRUCTION. COMMUNICATION PLAN SHALL INCLUDE CONTACT INFORMATION FOR KEY PROJECT TEAM.

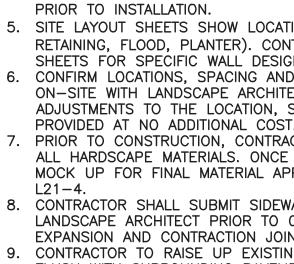
37. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE GENERAL CONSTRUCTION AREA IS PROTECTED AT ALL TIMES. BARRICADES AND FENCING MUST BE ERECTED BEFORE ANY EXCAVATION, EXTENDED AS THE EXCAVATION PROGRESSES AND MAINTAINED UNTIL THE PROJECT IS COMPLETED. BARRICADING AND FENCING IS INCIDENTAL TO THE PROJECT. SEE SPECIFICATION SECTION 01 50 00 - 5 TEMPORARY FACILITIES AND CONTROLS. FLARES AT ALL CURB RAMPS. ARFAS

PRIOR TO INSTALLATION.

8. CONTRACTOR SHALL SUBMIT SIDEWALK JOINTING FOR FACH BLOCK TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. JOINTING SHALL SHOW EXPANSION AND CONTRACTION JOINT LOCATIONS. 9. CONTRACTOR TO RAISE UP EXISTING UTILITY COVERS TO REMAIN TO BE FLUSH WITH SURROUNDING PAVEMENT WITHIN PROJECT LIMITS. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT.

10 HANDRAI A. EXISTING HANDRAIL THAT REMAINS WITHIN THE PROJECT LIMITS IS TO BE CLEANED, SANDBLASTED, SANDED, AND PAINTED TO MATCH PROPOSED RAILING (COLOR AND FINISH). WHERE SHOWN ON PLANS, FIELD INSTALL LIGHT NODES INTO RAILING. B. ALL STEEL HANDRAIL AND WELDS SHALL BE CLEANED TO SSPC-SP3

PRIMING/PAINTING.





LAYOUT DIMENSIONS FROM BACK OF CURB UNLESS OTHERWISE NOTED. 2. FACE OF CURB BACK AT CURB TAPERS SHALL BE PARALLEL WITH WALK

3. DETECTABLE WARNINGS AT ADA RAMPS SHALL BE RADIAL WHERE SHOWN. CONTRACTOR SHALL CUT PLATES AS NECESSARY TO ENSURE THE DETECTABLE WARNING SURFACE COVERAGE IS 24" MINIMUM IN THE DIRECTION OF RAMP/PATH TRAVEL AND THE FULL WIDTH OF THE RAMP/PATH OPENING EXCLUDING CURBED OR FLARED CURB TRANSITION 4. PARK SIGNAGE LOCATIONS AND ORIENTATION SHALL BE FIELD VERIFIED

5. SITE LAYOUT SHEETS SHOW LOCATION AND PLAN OF WALLS (SITE, RETAINING, FLOOD, PLANTER), CONTRACTOR TO REFER TO STRUCTURAL SHEETS FOR SPECIFIC WALL DESIGN AND DETAILING. 6. CONFIRM LOCATIONS, SPACING AND ORIENTATION OF ALL SITE FURNISHINGS ON-SITE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ADJUSTMENTS TO THE LOCATION, SPACING AND ORIENTATION SHALL BE 7. PRIOR TO CONSTRUCTION. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL HARDSCAPE MATERIALS. ONCE APPROVED, CONSTRUCT HARDSCAPE MOCK UP FOR FINAL MATERIAL APPROVALS. SEE DETAIL 11 ON SHEET

## AND/OR PER PAINT MANUFACTURER'S RECOMMENDATIONS PRIOR TO C. CONTRACTOR SHALL USE PRIMER IN ALKYD SYSTEMS FOR STEEL

## SURFACES EXPOSED TO WEATHERING. D. ALL STEEL TO BE PRIMED AND PAINTED BLACK.

E. PAINT SHALL BE FOR EXTERIOR STEEL APPLICATIONS AND MANUFACTURED BY SHERWIN WILLIAMS. PREPARE SURFACE AND APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

# AERIAL IMAGERY

AERIAL IMAGERY SHOWN ON EXISTING CONDITION AND REMOVAL PLANS IS FOR REFERENCE ONLY. SOME SITE INFORMATION HAS CHANGED SINCE THIS AERIAL IMAGERY WAS TAKEN. FOR INSTANCE, SOME TREES SHOWN IN THE AERIAL IMAGERY HAVE SINCE BEEN REMOVED IN CERTAIN LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE TO VERIFY EXISTING CONDITIONS AND REQUIRED DEMOLITION.

# CONCRETE RESTORATION AND CLEANING NOTES

- 1. ALL EXTERIOR CAST-IN-PLACE CONCRETE WITHIN RIVERBANK PARK BLOCKS TO BE SANDBLASTED TO REMOVE EXISTING PAIN AND CLEANED WITH LIGHT DUTY CONCRETE CLEANER AND TREATED WITH SEALANT FOLLOWING MANUFACTURER'S RECOMMENDATIONS. SEALANT AND GRAFFITI PROTECTOR SHALL BE APPLIED TO EXISTING BATHROOM IN WATER WALL BLOCK. CONTRACTOR TO SUBMIT PRODUCT DATA FOR CLEANING COMPOUNDS.
- 2. PROTECT SURROUNDING ELEMENTS FROM DAMAGE DUE TO CLEANING PROCEDURES. 3. CLEANING EXISTING CONCRETE:
- A. TEST CLEANING METHOD BEFORE CLEANING ENTIRE WALL AREA TO ENSURE THAT CONCRETE WILL NOT BE DISCOLORED OR OTHERWISE VISUALLY IMPACTED. B. USE LIGHT DUTY CONCRETE CLEANER, FOLLOWING MANUFACTURER'S
- RECOMMENDATIONS. ACCEPTABLE MANUFACTURER'S INCLUDE PROSOCO. YORK, AND LYMTAL

# DEMOLITION

- 1. CONTRACTOR TO "SHAVE" LIPS OF CONCRETE FOR SMOOTH WALK. 2. CONTRACTOR TO FIELD VERIFY LIMITS OF CONCRETE AND PAVEMENT
- REMOVAL. CONCRETE TO BE REMOVED TO NEAREST JOINT IN SLAB. 3. CONTRACTOR SHALL STRIP. STOCKPILE, AND SALVAGE TOPSOIL WITHIN PROJECT LIMITS. INSTALL SILT FENCE AROUND STOCKPILES. 4. CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE
- CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT DOCUMENTS. 5. VERIFY AND INVESTIGATE ALL CONDITIONS AND LIMITS OF DEMOLITION IN THE FIELD PRIOR TO STARTING DEMOLITION ACTIVITIES. NOTIFY ENGINEER
- OF DISCREPANCIES. LOCATE AND IDENTIFY UTILITIES TO REMAIN IN OPERATION.

# LIGHTING GENERAL NOTES

- 1. CONTRACTOR SHALL PROVIDE EXTRA LIGHT POLES/FIXTURES AS NOTED BELOW TO GENESEE COUNTY PARKS AND RECREATION COMMISSION FOR FUTURE REPAIRS BY OWNER. THESE ITEMS SHALL BE INCLUDED IN "EXTRA LIGHTING MATERIALS" PAY ITEM. THE QUANTITIES ARE AS FOLLOWS: SA-6
- SB-19 SC-2
- SD (FLOOD LIGHTS ONLY)-8 SE-2
- SF-2SG-3
- SH-2SK- 25 LINEAR FEET
- SJ-2

# MATERIAL EXCAVATION AND DISPOAL

- 1. EXCAVATION AND DISPOSAL OF MATERIALS FROM WITHIN THE FLINT RIVER AND ALL PARK BLOCKS SHOULD BE TREATED AS CONTAMINATED,
- NON-HAZARDOUS MATERIALS. 2. CONTRACTOR TO OBTAIN LANDFILL APPROVAL PRIOR TO DISPOSAL OF MATERIALS.

UED FOR: DATE: BY 10/23/24 SA

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# **GENERAL NOTES**

- DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES ARE BASED ON PREVIOUS CONTRACT DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH FIELD MEASUREMENTS ALL DIMENSIONS AND ELEVATIONS FOR FABRICATION AND/OR MODIFICATIONS OR ADDITIONS BEING MADE UNDER THIS CONTRACT. ANY DISCREPANCIES SHALL BE PRESENTED TO THE OWNER AND ANY DESIGN CONFLICTS SHALL BE RESOLVED WITH OWNER PRIOR TO FABRICATIONS OR CONSTRUCTION OF IMPACTED ITEMS.
- 2. ALL EXISTING DIMENSIONS AND ELEVATIONS SHOWN WITH THE ± SYMBOL, ARE APPROXIMATE AND SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR BEFORE FABRICATION AND CONSTRUCTION.
- 3. ALL DIMENSIONS OR ELEVATIONS MARKED WITH AN ASTERISK "\*" SHALL BE DETERMINED OR VERIFIED WITH EQUIP. MFR. CERTIFIED SHOP DRAWINGS OR FIELD MEASUREMENTS OF EXISTING CONSTRUCTION BEFORE FABRICATION AND CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF STRUCTURES 4 DURING CONSTRUCTION. THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELF BRACING UNTIL PERMANENTLY CONNECTED TO THE STRUCTURE AS INDICATED ON THE PLANS. THE ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURES, MEANS AND METHODS, OR SAFETY DURING CONSTRUCTION. MEANS AND METHOD OF CONSTURCTION, TEMPORARY SHORING AND BRACING, AND CONSTRUCTION SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 5. ALL ELEVATIONS ARE BASED ON NAVD 88.

# CODES, LOADS AND GEOTECHNICAL

- 1. ALL STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:
  - A. MICHIGAN BUILDING CODE (2015) B. INTERNATIONAL BUILDING CODE (2015)
  - C. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES -AMERICAN SOCIETY OF CIVIL ENGINEERS" ASCE 7 -16 D. AISC STEEL CONSTRUCTION MANUAL, FOURTEENTH EDITION
  - E. AMERICAN WELDING SOCIETY (AWS) 1.) AWS D1.1: 2010 STRUCTURAL STEEL
  - 2.) AWS D1.3: 2008 SHEET STEEL 3.) AWS D1.4: 2001 REINFORCING STEEL
  - F. OCCUPATONAL SAFETY AND HEALTH ACT, OSHA REGULATIONS (STANDARDS-29 CFR) PART 1926 SUBPART R-STEEL ERECTION G. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
  - ACI 318-19 H. GEOTECHNICAL EVALUATION REPORT FOR FLINT RIVER SHORELINE IMPROVEMENTS GRAND TRAVERSE STREET TO THE DAM FLINT PROJECT, MICHIGAN, (DATED OCTOBER 2022)

# **DESIGN LOADS**

- 1. DESIGN LOADS SHALL BE IN ACCORDANCE WITH THE INTERNATION BUILDING CODE 2015 (IBC) AND NFPA 68/69.
- 2. DESIGN LOADS: A. PLATFORMS, WALKS AND STAIR LIVE LOAD = 100 PSF
  - B. SNOW LOADS 1.) FLAT ROOF SNOW LOAD; PF = 25.0 PSF
  - 2.) SNOW EXPOSURE FACTOR; CE = 1.0 3.) SNOW LOAD IMPORTANCE FACTOR; I = 1.1
  - 4.) THERMAL FACTOR; CT = 1.0 C. EARTHQUAKE LOADS 1.) SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS Ss = 0.05 2.) SPECTRAL RESPONSE ACCELERATION AT 1-SEC PERIODS S1 = 0.025 3.) SITE CLASS D 4.) DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS Sds = 0.15.) DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SEC PERIODS Sd1 = 0.07
  - 6.) SEISMIC USE GROUP II 7.) SEISMIC IMPORTANCE FACTOR I = 1.25 D. EARTH LOADS AND LATERAL LOADS ON PERMANENT STRUCTURES
  - BELOW GRADE 1.) REFER TO GEOTECHNICAL REPORT (DATED OCTOBER 2022)
  - E. FLOOD LOADS: 1.) DESIGN FLOOD ELEVATION = 100-YR FLOOD ELEVATION OF EL 703 FT (FOR STRUCTURES PROTECTING FROM FLOODING) F. ALL GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO MEET LOADING CRITERIA CONFORMING TO REQUIREMENTS OF INTERNATIONAL
- BUILDING CODE 2020. REFER TO THE CIVIL DRAWINGS AND FLINT RIVER RESTORATION FOR: A. ORDINARY HIGH WATER LEVELS **B. ORDINARY LOW WATER LEVELS**

## REMOVAL

- 1. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING STRUCTURES, WHICH ARE TO REMAIN, DURING REMOVAL WORK. ALL DAMAGE SHALL BE REPAIRED TO THE COMPLETE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- WHEN REMOVING EXISTING CONCRETE BY CUTTING OR CHIPPING THE CONTRACTOR SHALL ONLY REMOVE REINFORCING BARS WHICH CANNOT BE BENT INTO AREAS WHERE NEW CONCRETE WOULD COMPLETELY COVER THEM.
- IF FRACTURE OF ADJACENT CONCRETE OCCURS DURING REMOVAL/ALTERATION WORK, THE REPAIR SHALL BE WITH AN ENGINEER APPROVED PRESSURE INJECTED EPOXY, TO THE COMPLETE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE WRITTEN PLAN AND DESCRIPTION OF ALL REMOVAL, MODIFICATION, OR ALTERATION WORK ON EXISTING STRUCTURES FOR REVIEW AND ACCEPTANCE PRIOR TO BEGINNING WORK.

TEMPORARY EARTH RETAINING SYSTEM <u>(TERS)</u>

- 1. DUE TO THE PROXIMITY OF FLINT RIVER, EXISTING STRUCTURES, ROADS AND UTILITIES, IT WILL BE NECESSARY TO PROVIDE TEMPORARY EARTH RETENTION FOR CONSTRUCTION WITHIN DEEP EXCAVATIONS. SELECTION, DESIGN AND WORK SEQUENCE OF TEMPORARY EARTH RETENTION SYSTEMS AND PROTECTION OF EXISTING STRUCTURES. ROADS AND UTILITIES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DESIGN CALCULATIONS FOR PROPOSED EARTH RETENTION MEASURES, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN, SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING RELATED EXCAVATION WORK.
- 2. SOIL BORING DATA IS INCLUDED IN THE SPECIFICATIONS FOR INFORMATION ABOUT THE UNDERGROUND CONDITIONS ONLY AT THE LOCATIONS WHERE THE BORINGS WERE MADE. THE OWNER DOES NOT REPRESENT OR WARRANT THAT THE UNDERGROUND CONDITIONS ENCOUNTERED DURING CONSTRUCTION SHALL CONFORM TO THOSE DESCRIBED IN THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL DRAW THEIR OWN CONCLUSIONS AS TO SOIL CONDITIONS FROM THEIR OWN EXPERIENCE, INDEPENDENT KNOWLEDGE, AND INVESTIGATION OF THE SITE. THE CONTRACTOR SHALL OBTAIN ADDITIONAL SUBSURFACE CONDITION INFORMATION AS THEY CONSIDER NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PREPARE AN EXCAVATION PLAN INCLUDING SIDE SLOPES PROPOSED, TEMPORARY OR PERMANENT EARTH RETENTION SYSTEMS, AND DEWATERING OR DEPRESSURIZING SYSTEMS, IF REQUIRED, FOR REVIEW PRIOR TO START OF WORK.
- 4. AT PROJECT SITES BY THE FLINT RIVER, THE TERS SHALL INCLUDE COFFERDAMS DESIGNED FOR THE 100-YEAR FLOOD ELEVATION. NOTE THAT THE EXISTING SEAWALLS IN THE PROJECT AREA INCLUDE THE TIED-BACK SHEET PILES WALLS: THEREFORE. CONTRACTOR MUST NOT CUT TIE-BACKS UNTIL THE EXISTING SEAWALLS HAVE BEEN RELIEVED FROM THE RESPECTIVE EARTH PRESSURES AND THE SEAWALL SYSTEM. AS A WHOLE. IS GEOTECHNICALLY AND STRUCTURALLY SOUND AND SAFE THE SEQUENCE OF WORK SHALL DEMONSTRATE STABILITY OF THE EXISTING SEAWALLS AND TERS AT ALL CONSTRUCTION STAGES.

# FOUNDATIONS

- 1. CONTRACTOR SHALL BE AWARE OF AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, TANKS, ETC. DUE CARE SHALL BE EXERCISED DURING CONSTRUCTION ACTIVITIES SUCH THAT EXISTING UTILITIES ARE NOT DAMAGED.
- 2. THE OWNER WILL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER TO MONITOR THE FOUNDATION WORK AND DETERMINE THE QUALITY OF SOIL OR ROCK AT ALL FOUNDATION LOCATIONS.
- 3. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF IN AN APPROVED
- 4. ALL EXCAVATIONS. FILLING. BACKFILLING. FOUNDATION AND COMPACTION CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL EXPLORATION REPORT, REQUIREMENTS NOTED ON THE DRAWINGS, AND PROJECT SPECIFICATIONS, UNO.
- 5. BARRICADE ALL OPEN EXCAVATIONS OCCURRING AS PART OF THE WORK AND POST WITH WARNING LIGHTS.
- 6. SLOPE OR BENCH SIDES OF EXCAVATIONS TO COMPLY WITH CODES AND ORDINANCES HAVING JURISDICTION. PROVIDE SHORING OR SHIELDING WHERE OPEN CUT SLOPES ARE NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED.
- 7. IF ENCOUNTERED, THE EXISTING SEWER PIPES WITHIN THE EXCAVATION AREA SHALL BE BACKFILLED WITH CLSM TO THE SPRINGLINE OF THE PIPE. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY SUPPORTING THE EXISTING PIPES DURING CONSTRUCTION UNTIL PIPES HAVE BEEN ADEQUATLY BACKFILLED.
- 8. STRUCTURE FOUNDATIONS SHALL BEAR BELOW FROST DEPTH AT APPROXIMATELY 42 INCHES BELOW GRADE ELEVATION.
- 9. SEE PROJECT SPECIFICATION AND GEOTECHNICAL REPORT FOR DEWATERING REQUIREMENTS DURING CONSTRUCTION PRIOR TO ANY REMOVAL WORK.
- 10. MAXIMUM ALLOWABLE SLOPE (H:V) DURING EXCAVATION WORK SHALL BE AS FOLLOWS: A. COHESIVE SOILS: 1:1 B. NON-COHESIVE SOILS: 2:1
- SEE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SOIL INFORMATION AND EXCAVATION REQUIREMENTS PRIOR TO CONSTRUCTION.

# CAST-IN-PLACE CONCRETE

- 1. THE DETAILING, BENDING, AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-19 CODE AND ACI DETAILING MANUAL, SP-66 (94). FIELD BENDING WILL NOT BE PERMITTED UNLESS APPROVED BY ENGINEER
- 2. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
- 3. ALL STRUCTURAL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 5000 PSI @ 28 DAYS, UNO. REFER TO CIVIL SHEETS FOR THE COMPRESSIVE STRENGTH REQUIREMENT FOR CIVIL COMPONENTS SUCH AS SIDEWALKS,
- WALKS, RAMPS AND LANDINGS. 4. STEEL REINFORCING SHALL NOT BE SPLICED AT POINTS OTHER THAN
- SHOWN ON THE PLANS, EXCEPT AS APPROVED BY THE ENGINEER, UNO.
- AND TYPICAL DETAILS, UNO. 6. ALL STIRRUPS AND TIES SHALL BE CLOSED TYPE WITH 135 DEGREE HOOKS,
- UNO. 7. ALL COLD JOINTS IN STRUCTURAL CONCRETE STRUCTURES SHALL HAVE A
- CONTINUOUS WATERSTOP CREATING A WATERTIGHT JOINT AS DETAILED. WHERE NOT SPECIFIED ALL COLD JOINTS SHALL HAVE A HYDROPHILIC WATERSTOP PER SPECIFICATIONS. REFER TO CIVIL SHEETS FOR WATERSTOPS REQUIREMENTS, IF ANY, FOR SIDEWALKS, WALKS, RAMPS AND LANDINGS.
- 8. THE LENGTH OF ALL LAP SPLICES SHALL BE AS SPECIFIED IN "REINFORCING TENSION SPLICE TABLE" ON THIS SHEET UNLESS OTHERWISE INDICATED IN DRAWINGS. WHEN BARS OF DIFFERENT SIZE ARE BEING LAPPED. THE LENGTH SHALL BE THE SPECIFIED LAP LENGTH OF THE LARGER BAR.
- 9. BOTTOM AND TOP REINFORCING BARS FOR ALL DISCONTINUOUS ENDS OF BEAMS AND ELEVATED SLABS SHALL HAVE HOOKS AND SPLICES CONFORMING TO ACI MANUAL OF STANDARD PRACTICE. 10. CONCRETE COVER OVER PRIMARY REINFORCEMENT SHALL BE 2 INCHES MINIMUM (1 1/2" FOR COLUMN TIES AND BEAM STIRRUPS), UNLESS NOTED
- OTHERWISE, AND 3 INCHES MINIMUM WHERE CAST AGAINST EARTH. 11. CAST-IN-PLACE CONCRETE WALLS WHICH SUPPORT AN ELEVATED SLAB SHALL NOT BE BACKFILLED UNTIL THE ELEVATED SLAB IS PLACED AND
- CURED. 12. USE CONTROL (CONTRACTION) JOINTS SPACING OF 20-FT MAX AND EXPANSION JOINTS SPACING OF 60-FT FOR CONCRETE RETAINING WALLS
- 13. USE CONTROL (CONTRACTION) JOINT SPACING OF 5-FT MAX, EXPANSION JOINT SPACING OF 50-FT MAX, AND CONSTRUCTION JOINT SPACING OF 20-FT

UNO ON STRUCTURAL SHEETS.

14. REFER TO ARCHITECTURAL SHEETS AND PROJECT SPECIFICATIONS FOR ARCHITECTURAL CONCRETE FINISH FOR EXPOSED SLABS, WALLS,

SIDEWALKS, WALKS, RAMPS, LANDINGS, ETC.

# METALS - STEEL

- 1. STRUCTURAL STEEL AND MISCELLANEOUS METALS DESIGN SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC/ANSI 360.
- 2. ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM A-992, GRADE 50. MISCELLANEOUS METALS SHALL CONFORM TO ASTM A-36.
- 3. ALL STRUCTURAL STEEL TUBES (HSS) SHALL CONFORM TO ASTM A500, GRADE B.
- 4. ALL STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B, TYPE E OR
- 5. BOLTS SHALL BE A MINIMUM 3/4" DIAMETER, ASTM A325N, TYPE 1, UNO. PROVIDE COMPATIBLE A563 GRADE DH, HEAVY HEX NUTS, AND F436 GRADE 1 WASHERS.
- 6. ALL GALVANIZED STEEL SHALL BE HOT-DIP GALVANIZED CONFORMING TO ASTM A123, UNO.
- 7. ALL STAINLESS STEEL BEAMS, PLATES AND MISCELLANEOUS SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A1637 TYPE 316/316L GRADE A OR BETTER, HOT ROLLED AND ANNEALED FINISH.
- 8. STRUCTUAL STEEL HP PILING SHALL BE ASTM A709 GRADE 50S (fy=50 KSI) STEEL.

## MISCELLANEOUS

- 1. BEFORE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT FOUNDATION, PAD AND CURB DIMENSIONS, AND THE SIZES AND LOCATIONS OF ANCHOR BOLTS FROM MANUFACTURER'S CERTIFIED SHOP DRAWINGS.
- 2. CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND ACCOMMODATE OPENINGS AND EMBEDDED ITEMS SHOWN ON OTHER DRAWINGS.
- 3. ALL ADHESIVE ANCHORING SYSTEMS FOR POST INSTALLED ANCHORS AND/OR REINFORCING DOWELS IN CONCRETE AND MASONRY SHALL BE "HIT-HY 200 ADHESIVE ANCHORING SYSTEM" BY HILTI AT SIZE AND SPACING INDICATED ON DRAWINGS (OR APPROVED EQUAL).

REV#	DATE	DESCRIPTION	B`

MANNER. ALL EXCAVATIONS SHALL CONFORM TO OSHA REQUIREMENTS.

5. WATERSTOPS SHALL BE PROVIDED AS SHOWN ON THE STRUCTURAL PLANS

# MAX FOR WALKS/RAMPS/LANDINGS UNO ON CIVIL OR STRUCTURAL SHEETS.

[		
MINIMU		ORING SYSTEM ENT DEPTH FOR ID RODS
REIN	NFORCING E	BARS/DOWELS
BAR SIZE	EMBED DEPTH	REMARKS
#3	5 1/2"	
#4	5 1/2"	
#5	7"	
#6	8 1/2"	
#7	10"	
#8	11 3/4"	
	ANCHOR	RODS
BOLT DIAMETER	EMBED DEPTH	
3/8"	3 1/2"	
1/2"	4 1/4"	
5/8"	5"	
3/4"	6 5/8"	
1"	8 1/4"	
NOTES:		
1. ALL ANCHORS	S INSTALLED WITH AN A	DHESIVE ANCHORING SYSTEM

. ALL ANCHORS INSTALLED WITH AN ADHESIVE ANCHORING SYSTEM SHALL, AT A MINIMUM, HAVE THE EMBEDMENT DEPTHS INDICATED IN THE TABLE ABOVE UNLESS SPECIFICALLY INDICATED OTHERWISE ON DRAWINGS.

2. CONFIRM REQUIRED EMBEDMENT DEPTHS WITH MANUFACTURERS REQUIREMENTS FOR DEVELOPING THE TENSION CAPACITY OF THE ANCHOR RODS (TYP).

## ADHESIVE ANCHORING TABLE SCALE: NONE

WADE

555 S. Saginaw Street, Suite 20

Flint, MI 48502 810.235.2555 www.wadetrim.com

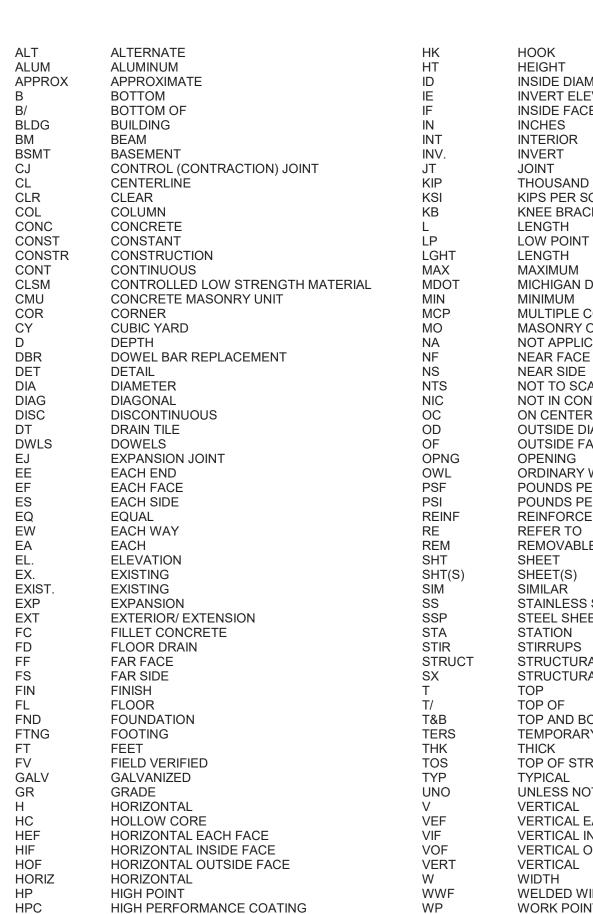
# **REINFORCING TENSION** SPLICE TABLE

BAR SIZE	TENSION LAP	TOP BARS⁴
#3	16"	22"
#4	20"	29"
#5	24"	36"
#6	29"	43"
#7	42"	63"
#8	48"	72"
#9	54"	81"
#10	61"	91"
#11	67"	101"

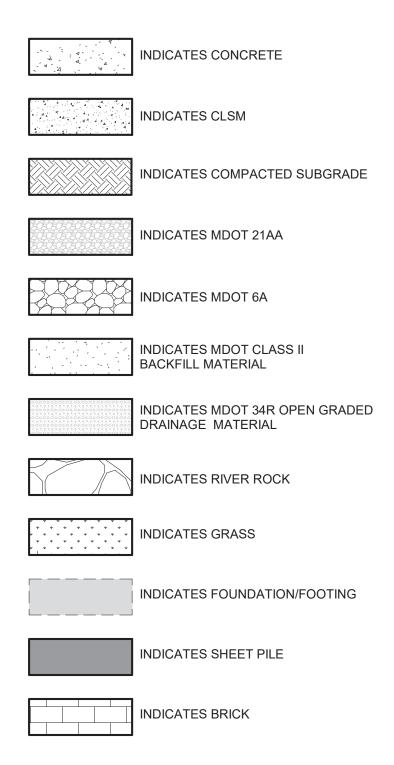
NOTES:

- . ABOVE TABLE IS FOR NORMAL WEIGHT CONCRETE; f'c= 5,000 PSI AND REINFORCING STEEL; fy= 60,000 PSI.
- 2. ALL SPLICES SHALL BE CONSIDERED TENSION SPLICES USING LAP LENGTHS IN TABLE ABOVE UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS.
- 3. LENGTHS ARE BASED ON LAP CLASS B SPLICES WITH CENTER TO CENTER SPACING OF BARS GREATER THAN 6 DIAMETERS.
- 4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST UNDER THEM.
- 5. USE TENSION LAP LENGTHS FOR HORIZONTAL & VERTICAL WALL BARS.

## REINFORCING TENSION SPLICE TABLE SCALE: NONE



# STRUCTURAL ABBREVIATIONS



HATCHING LEGEND

FLINT RIVERFRONT RESTORATION-PHASE 2

INSIDE DIAMETER INVERT ELEVATION INSIDE FACE THOUSAND POUNDS KIPS PER SQUARE INCH KNEE BRACE LOW POINT MICHIGAN DEPARTMENT OF TRANSPORTATION MULTIPLE CORROSION PROTECTION MASONRY OPENING NOT APPLICABLE NEAR FACE NOT TO SCALE NOT IN CONTRACT ON CENTER OUTSIDE DIAMETER OUTSIDE FACE ORDINARY WATER LEVEL POUNDS PER SQUARE FEET POUNDS PER SQUARE INCH REINFORCEMENT REMOVABLE STAINLESS STEEL STEEL SHEET PILING STRUCTURAL STRUCTURAL REMOVAL TOP AND BOTTOM TEMPORARY EARTH RETENTION SYSTEM TOP OF STRUCTURAL STEEL ELEVATION UNLESS NOTED OTHERWISE VERTICAL EACH FACE VERTICAL INSIDE FACE VERTICAL OUTSIDE FACE WELDED WIRE FABRIC WORK POINT

ISSUED IFB	FOR:	DATE: 10/23/24	
			SHEET
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(m(	odified)	pility of a specific control measure of the seven problem areas	SLOPES	STREAMS AND WATERWAYS	SURFACE DRAINAGEWAYS	ENCLOSED DRAINAGE (inlet & Outfall Control)	LARGE FLAT SURFACE AREAS	BORROW AND STOCKPILE AREAS	ADJACENT PROPERTIES
KEY	DETAIL	CHARACTERISTICS	 	B	C		E	F	G
1	Dust Control - No Detail -	DUST CONTROL APPLICATIONS TO INCLUDE STREET SWEEPING AND MAY INCLUDE WATERING, CHEMICAL DUST SUPPRESSION, GRAVEL OR ASPHALT SURFACING, TEMPORARY AGGREGATE COVER AND HAUL TRUCK COVERS	*				*	*	
2	Selective Grading & Shaping	WATER CAN BE DIVERTED TO MINIMIZE EROSION FLATTER SLOPES EASE EROSION PROBLEMS	*					*	*
3	Grubbing Omitted	SAVES COST OF GRUBBING, PROVIDES NEW SPROUTS RETAINS EXISTING ROOT MAT SYSTEM, REDUCES WIND FALL AT NEW FOREST EDGE. DISCOURAGES EQUIPMENT ENTRANCE	*				$\ast$		*
4	Vegetative Stabilization	MAY UTILIZE A VARIETY OF PLANT MATERIAL STABILIZES SOIL SLOWS RUNOFF VELOCITY FILTERS SEDIMENT FROM RUNOFF	*	*	*		*	*	*
5	AVAILABLE DETAIL								
6	Seeding with Mulch Blanket and/or Matting	FACILITATES ESTABLISHMENT OF VEGETATIVE COVER EFFECTIVE FOR DRAINAGEWAYS WITH LOW VELOCITY EASILY PLACED IN SWALL QUANTITIES BY INEXPERIENCED PERSONNEL SHOULD INCLUBE PREPARED TOPSOIL BED	*		*			*	*
7	AVAILABLE DETAIL								
8	Sodding	PROVIDES IMMEDIATE PROTECTION CAN BE USED ON STEEP SLOPES WHERE SEED MAY BE DIFFICULT TO ESTABLISH. EASY TO PLACE; MAY BE REPAIRED IF DAMAGED SHOULD INCLUDE PREPARED TOPSOIL BED	*		*		*	*	*
9	Vegetative Buffer Strip	SLOWS RUNOFF VELOCITY FILTERS SEDIMENT FROM RUNOFF REDUCES VOLUME OF RUNOFF ON SLOPES	*	*					*
10	Mulching	USED ALONE TO PROTECT EXPOSED AREAS FOR SHORT PERIODS PROTECTS SOIL FROM IMPACT OF FALLING RAIN PRESERVES SOIL MOISTURE AND PROTECTS GERMINATING SEED FROM TEMPERATURE EXTREMES	*				*	*	
11	Roughened Surface	REDUCES VELOCITY AND INCREASES INFILTRATION RATES COLLECTS SEDIMENT HOLDS WATER, SAND AND MULCH BETTER THAN SMOOTH SURFACES	*				$\ast$		
12	AVAILABLE DETAIL								
13	Riprap, Rubble, Gabions	USED WHERE VEGETATION IS NOT EASILY ESTABLISHED EFFECTIVE FOR HIGH VELOCITIES OR HIGH CONCENTRATIONS PERMITS RUNOFF TO INFILITRATE SOIL DISSIPATES DERROY FLOW AT SYSTEM OUTLETS	*	*	*				
14	Dewatering								
15	Dewatering Bag								
16	AVAILABLE DETAIL								
17	Benches	REDUCES RUNOFF VELOCITY BY REDUCING EFFECTIVE SLOPE LENGTH COLLECTS SEDIMENT, PROVIDES ACCESS TO SLOPES FOR SEEDING, MULCHING AND MAINTENANCE	*					*	
18	Earth Diversion Berm	DIVERTS WATER FROM VULNERABLE AREAS COLLECTS AND DIRECTS WATER TO PREPARED DRAINAGEWAYS MAY BE PLACED AS PART OF NORMAL CONSTRUCTION OPERATION	*					*	*
18A	Earth Diversion Berm With Stone Outlet Filter	DIVERTS WATER FROM VULNERABLE AREAS COLLECTS AND DIRECTS WATER TO PREPARED DRAINAGEWAYS MAY BE PLACED AS PART OF NORMAL CONSTRUCTION OPERATION	$\ast$					*	*
19	Diversion Ditch	COLLECTS AND DIVERTS WATER TO REDUCE EROSION POTENTIAL MAY BE INCORPORATED IN PERMANENT PROJECT DRAINAGE SYSTEMS	*					*	*
20	Diversion Berm & Ditch	DIVERTS WATER TO A PREPARED DRAINAGEWAY MAY BE USED AT INTERVALS ACROSS SLOPE FACE TO REDUCE EFFECTIVE SLOPE LENGTH	*					*	*
21	Stone Filter Berm	CONSTRUCTED OF GRAVEL OR STONE INTERCEPTS AND DIVERTS RUNOFF TO STABILIZED AREAS OR PREPARED DRAINAGE SYSTEMS SLOWS RUNOFF AND COLLECTS SEDIMENT	*	*					*
21 A	Stone Filter Berm with Silt Fence	CONSTRUCTED OF GRAVEL OR STONE INTERCEPTS AND DIVERTS RUNOFF TO STABILIZED AREAS OR PREPARED DRAINAGE SYSTEMS SLOWS RUNOFF AND COLLECTS SEDIMENT - SILT FENCE PREVENTS EROSION AROUND SPILLWAY	*	*					*
22	AVAILABLE DETAIL								
23	AVAILABLE DETAIL								
24	Grassed Waterway	MUCH MORE STABLE FORM OF DRAINAGEWAY THAN BARE CHANNEL GRASS TENDS TO SLOW RUNOFF AND FILTER OUT SEDIMENT USED WHERE BARE CHANNEL WOULD BE ERODED			*				
25	Slope Drain (Surface Pipe)	PREVENTS EROSION ON SLOPES WHEN RUNOFF CANNOT BE DIVERTED TO EDGES OF SLOPE AREA. USUALLY TEMPORARY CAN BE CONSTRUCTED OR EXTENDED AS GRADING PROGRESSES	*						
26	Slope Drain - Paved Chute/Flume	PREVENTS EROSION ON SLOPES WHEN RUNOFF CANNOT BE DIVERTED TO EDGE OF SLOPE AREA. USUALLY PERMANENT CAN BE CONSTRUCTED OR EXTENDED AS GRADING PROGRESSES	*						
27	Slope Drain (Subsurface Pipe)	PREVENTS EROSION ON SLOPES WHEN RUNOFF CANNOT BE DIVERTED TO EDGE OF SLOPE AREA. USUALLY PERMANENT CAN BE CONSTRUCTED AS GRADING PROGRESSES	*						
28	Drop Spillway	SLOWS VELOCITY OF FLOW, REDUCING EROSIVE CAPACITY		*	*				
29	Pipe Drop	REDUCES RUNOFF VELOCITY REMOVES SEDIMENT AND TURBIDITY CAN BE DESIGNED TO HANDLE LARGE VOLUMES OF FLOW			*				
30	Pipe Spillway	REMOVES SEDIMENT AND TURBIDITY FROM RUNOFF MAY BE PART OF PERMANENT EROSION CONTROL PLAN			*				
31	Energy Dissipater	SLOWS RUNOFF VELOCITY TO NON-EROSIVE LEVEL PERMITS SEDIMENT COLLECTION FROM RUNOFF	$\ast$		*	$\ast$			
32	Level Spreader	CONVERTS COLLECTED CHANNEL OR PIPE FLOW BACK TO SHEET FLOW AVOIDS CHANNEL EASEMENTS AND CONSTRUCTION OFF PROJECT SITE SIMPLE TO CONSTRUCT			*				
33	Sediment Trap	MAY BE CONSTRUCTED OF A VARIETY OF MATERIALS TRAPS SEDIMENT AND REDUCES VELOCITY OF FLOW CAN BE CLEANED AND EXPANDED AS NEEDED			*				
34	Sediment Basin	TRAPS SEDIMENT RELEASES RUNOFF AT NON-EROSIVE RATES CONTROLS RUNOFF AT SYSTEM OUTLETS CAN EE VISUAL AMENITES				*			
35	AVAILABLE DETAIL								
36	Catch Basin Inlet Protection	COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF MAY USE FILTER CLOTH OVER INLET					*		*
37	Sod Filter	INEXPENSIVE AND EASY TO CONSTRUCT PROVIDES IMMEDIATE PROTECTION PROTECTS AREAS AROUND INLETS FROM EROSION				*			

# Michigan unified keying system

+ indicates applic to one or mor	ability of a specific control measure e of the seven problem areas	SLOPES	STREAMS AND WATERWAYS	SURFACE DRAINAGEWAYS	ENCLOSED DRAINAGE (inlet & Outfall Control)	LARGE FLAT SURFACE AREAS	BORROW AND STOCKPILE AREAS	ADJACENT PROPERTIES
KEY DETAIL	CHARACTERISTICS	Α	В	С	D	Ε	F	G
39 Fabric Filter Curb Inlet Protection	CAN UTILIZE MATERIAL FOUND ON SITE EASY TO CONSTRUCT FILTERS SEDIMENT FROM RUNOFF				*			*
40	EASY TO SHAPE COLLECTS SEDIMENT MAY BE CLEANED AND EXPANDED AS NEEDED				*			
41	MAY BE ROCK OR CLEAN RUBBLE MINIMIZES STREAM TURBIDITY INEXPENSIVE MAY ALSO SERVE AS DITCH CHECK OR SEDIMENT TRAP		*					
42	ELIMINATES STREAM TURBULENCE AND TURBIDITY PROVIDES UNOBSTRUCTED PASSAGE FOR FISH AND OTHER WATER LIFE CAPACITY FOR NORMAL FLOW CAN BE PROVIDED WITH STORM WATER FLOWING OVER ROADWAY		*					
43	EAST TO INSTALL AT INLET KEEPS CULVERT CLEAN AND FREE FLOWING MAY BE CONSTRUCTED OF LUMBER OR LOGS		*					*
44 AVAILABLE DETAIL								
45	NEW CHANNEL KEEPS NORMAL FLOWS AWAY FROM CONSTRUCTION REQUIRES STATE PERMIT		*					
46								
47 Cofferdam	WORK CAN BE CONTINUED DURING MOST ANTICIPATED STREAM CONDITIONS CLEAR WATER CAN BE PUMPED DIRECTLY BACK INTO STREAM		*					
48 AVAILABLE DETAIL								
49 Check Dam	REDUCES FLOW VELOCITY CATCHES SEDMENT CAN BE CONSTRUCTED OF LOGS, STRAW, HAY, ROCK, LUMBER, MASONRY, OR SAND BAGS		*	*				
50 AVAILABLE DETAIL								
51	REDUCES GRADIENT WHERE SLOPES ARE EXTREMELY STEEP PERMITS RETENTION OF EXISTING VEGETATION, KEEPING SOIL STABLE IN CRITICAL AREAS, MINIMIZES MAINTENANCE	*						*
52 ОІГ ВООМ								
53	MINIMIZES WIND EROSION MAY BE SNOW FENCE					*		
54	USES GEOTEXTILE FABRIC AND POSTS OR POLES EASY TO CONSTRUCT AND LOCATE AS NECESSARY	*		*		*		*
55	STONE FILTER TO PROVIDE INEXPENSIVE AND EASILY CONSTRUCTED SEDIMENT CONTROL PRIOR TO PAVING SEE DETAIL AT LEFT			*	*			
55A Stone Filter-After Paving	STONE FILTER TO PROVIDE INEXPENSIVE AND EASILY CONSTRUCTED SEDIMENT CONTROL AFTER PAVING SEE DETAIL AT LEFT			*	*			
56	A TURBIDITY CURTAIN IS USED WHEN SLACK WATER AREA IS NECESSARY TO ISOLATE CONSTRUCTION ACTIVITES FROM THE WATERCOURSE. THE STILL WATER AREA CONTAINS THE SEDIMENT WITHIN THE CONSTRUCTION LIMITS		$\ast$					
57	MAY BE 6A TYPE STONE, SMALL ROCKS OR SIMILAR-SIZED CLEAN CONCRETE-MASONBY RUBBLE, MINIMIZES STREAM TURBIDITY RELATIVELY INEXPENSIVE MAY BE USED AS DITCH CHECK OR SEDIMENT TRAP			*				
58	CONTROLS SEDIMENTATION IN LARGE STREAMS, CONSIST OF OVER EXCAVATING THE DRAIN BY ONE TO TWO FEET, THE SUMP WILL BE AT LEAST 200 FEET LONG, SEDIMENTS ACCUMULATED DURING CONSTRUCTION WILL BE REMOVED UPON PROJECT COMPLETION			*				
Temporary River Access Ramp								
60	ASSISTS IN REMOVING SOIL FROM THE TIRES OF CONSTRUCTION EQUIPMENT/VEHICLES WHEN EXITING THE CONSTRUCTION SITE. THIS REDUCES TRACKING EXCESSIVE SEDIMENT/SOIL ONTO THE ADJACENT ROAD							*

# OF PUBLIC ACT 451, AS AMENDED, 1994.

- ARFA

		-		
REV#	DATE	DESCRIPTION	BY	

## MDEQ STREAM CROSSING NOTES 1. CONSTRUCTION OF STREAM CROSSINGS SHALL BE SUBJECT TO THE SPECIFICATIONS FOR PROTECTION OF NATURAL RESOURCES AT UTILITY CROSSINGS AS GIVEN IN THE ADMINISTRATIVE RULES OF PART NO. 301

2. FOR WATER CROSSINGS AND WATERWAYS, CROSSINGS SHALL BE COMPLETED IN LOW FLOW CONDITIONS. THE USE OF TURBIDITY CURTAINS, BY-PASS CHANNEL OR COFFERDAMS IS ALLOWED (SEE MICHIGAN UNIFIED KEYING SYSTEM AND PLAN SHEETS FOR SPECIFIC BARRIER).

3. BACKFILL SHALL CONSIST OF INERT MATERIALS WHICH WILL NOT CAUSE SILTATION NOR CONTAIN SOLUBLE CHEMICALS OR ORGANIC MATTER WHICH IS BIODEGRADABLE. ALL FILL SHALL BE CONTAINED IN SUCH A MANNER SO AS NOT TO ERODE INTO ANY WATERCOURSE.

4. ALL RAW BANKS SHALL BE STABILIZED WITH RIPRAP TO THREE FEET ABOVE THE ORDINARY HIGH WATER WATER MARK, THEN SEEDED, FERTILIZED AND MULCHED, OR SODDED TO PREVENT EROSION AS SOON AS POSSIBLE. 5. UPON PROJECT COMPLETION THE EXCESS SPOILS SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED UPLAND SITE. 6. SILTATION BARRIER MAY BE REMOVED UPON PLACEMENT OF PERMANENT

EROSION CONTROL MEASURES. WETLAND AREAS

1. WETLAND AREAS HAVE BEEN IDENTIFIED ON THE PLANS. NOTE THE USE OF DIVERSION CHANNELS WILL NOT BE ALLOWED THROUGH A WETLAND

2. NO STOCKPILING OF SOILS OR OTHER MATERIALS WILL BE ALLOWED IN WETLAND AREAS.

3. WETLAND AREAS TEMPORARILY DISTURBED DURING CONSTRUCTION WILL BE RESTORED TO EXISTING CONDITIONS. 4. REFER TO MDEQ PERMIT FOR ADDITIONAL PROCEDURES AND CONDITIONS THAT WILL BE ADHERED TO FOR THIS PROJECT.

## SOIL EROSION AND SEDIMENTATION CONTROL

- 1. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
- 2. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- 3. CLEANUP WILL BE DONE IN A MANNER TO INSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.
- 4. THE PROJECT WILL CONTINUALLY BE INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR WITHIN 24 HOURS.
- 5. TEMPORARY EROSION CONTROL MEASURES SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR UPON ESTABLISHMENT OF PERMANENT CONTROL MEASURES.
- 6. EROSION EELS MAY BE USED IN LIEU OF SILT FENCE ALONG RIVER EDGES. CONTRACTOR SHALL INSTALL EITHER SILT FENCE OR EROSION EELS AT ALL LOCATIONS ALONG RIVERFRONT WHERE ADJACENT CONSTRUCTION IN OCCURRING.

## CONSTRUCTION SEQUENCE

- 1. EXCAVATION AND STOCKPILING OF SOIL.
- 2. IMPLEMENTATION OF TEMPORARY EROSION CONTROL MEASURES; SELECTIVE GRADING, DIVERSIONS AS REQUIRED IN FIELD, PROTECTION OF STORM SEWER FACILITIES.
- 3. PERIODIC MAINTENANCE OF AFFECTED EROSION CONTROL MEASURES.
- 4. PERMANENT MEASURES; FINAL GRADING, SEEDING AND MULCHING. SEE UNIFIED KEYING SYSTEM FOR EROSION CONTROL KEY NUMBERS

## ZONE 1

7.05.05.0550	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	ост.	RATE OF APP	LICATION *
<u>TYPE OF SEED</u>	APRIL	MAT	JUNE	JULT	AUG.	SEP1.	001.	PER/1000 S.F.	PER ACRE
OATS / BARLEY ANNUAL RYE						15TH		2 LBS. 3/4 LB.	3 BUSHELS 25 LBS.
SUDANGRASS				15ТН				1 LB.	35 LBS.
CEREAL RYE							15ТН	1.5 LBS.	2 BU.
WINTER WHEAT						20ТН	15TH	1.5 LBS.	2 BU.

## TEMPORARY SEEDING GUIDE

RECOMMENDED PLANTING SEASON st rate of application applies to all zones

		1						
<u>ZONE</u>	TYPE OF IRRIGATION	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
ZONE 1	IRRIGATED and/or MULCHED without IRRIGATION or MULCH				//////			
ZONE 2	IRRIGATED and/or MULCHED without IRRIGATION or MULCH				///////			
ZONE 3	IRRIGATED and/or MULCHED without IRRIGATION or MULCH							

## PERMANENT SEEDING GUIDE RECOMMENDED PLANTING SEASON

## SOIL EROSION AND SEDIMENTATION CONTROL SCHEDULE

						MO	NTH					
CONSTRUCTION SEQUENCE	1	2	3	4	5	6	7	8	9	10	11	12
TEMPORARY SESC MEASURES	$\succ$	$\mathbb{T}$	$\mathbb{D}\!$									
STRIP AND STOCKPILE		$\succ$	$\mathbb{D}\!$	1								
DEMOLITION		$\succ$	$\mathbb{D}\!$	1								
ROUGH GRADING			$\bowtie$	$\triangleright$	$\bowtie$	$\bowtie$						
UNDERGROUND UTILITIES						$\bowtie$	$\succ$	$\bowtie$				
IN-RIVER WORK		$\succ$	$\mathbb{N}$	$\triangleright$	$\bowtie$	$\bowtie$						
SITE/PARK IMPROVEMENTS					$\bowtie$	$\bowtie$	$\succ$	$\bowtie$				
PERMANENT SESC MEASURES				$\bowtie$	$\bowtie$	$\bowtie$	$\succ$	$\bowtie$	$\bowtie$	$\bowtie$	$\bowtie$	$\triangleright$
FINAL GRADE									$\bowtie$	$\bowtie$		
LANDSCAPING										$\bowtie$	$\bowtie$	$\triangleright$
MAINTENANCE SEQUENCE	1	2	3	4	5	6	7	8	9	10	11	12
STREET SWEEPING	$\rightarrow$	$\searrow$	$\mathbb{X}$	$\geq$	$\bowtie$	$\bowtie$	$\succ$	$\bowtie$	$\bowtie$	$\bowtie$	$\bowtie$	$\triangleright$
SILT FENCING	$\rightarrow$	$\mathbb{X}$	$\mathbb{N}$	$\mathbb{N}$	$\mathbb{N}$	$\mathbb{N}$	$\succ$	$\bowtie$	$\succ$	$\bowtie$	$\bowtie$	$\triangleright$
MAINTAIN BUFFER STRIPS	$\rightarrow$	$\mathbf{\nabla}$	$\square$	$\bowtie$	$\square$	$\square$	${\succ}$	$\square$	$\bowtie$	$\bowtie$	$\bowtie$	$\triangleright$
INLET PROTECTION	$\rightarrow$	$\mathbb{T}$	$\mathbb{N}$	$\triangleright$	$\bowtie$	$\bowtie$	$\bowtie$	$\bowtie$	$\bowtie$	$\bowtie$	$\bowtie$	$\triangleright$
HYDROSEEDING AND MULCH											$\bowtie$	$\triangleright$
REMOVE TEMPORARY MEASURES										$\sim$	$\sim$	$\sim$

PRELIMINARY NOTE: ABOVE SESC PRELIMINARY SCHEDULE IS FOR ESTIMATED ONE PHASE OF CONSTRUCTION. CONTRACTOR TO SUBMIT FINAL SESC SCHEDULE PER PHASE AND OVERALL PROJECT





## TEMPORARY SEEDING

- APPLICATIONS 1. WHEN AN AREA NEEDS STABILIZATION DURING
- A BREAK IN CONSTRUCTION. 2. TO STABILIZE SOIL AND PREVENT OR REDUCE
- SOIL EROSION/SEDIMENTATION PROBLEMS FROM DEVELOPING.
- 3. USED ON CONSTRUCTION AND EARTH CHANGE SITES WHICH REQUIRE TEMPORARY VEGETATIVE STABILIZATION.

## <u>DESIGN</u>

- 1. REVIEW SESC PLAN AND CONSTRUCTION PHASING TO IDENTIFY AREAS IN NEED OF TEMPORARY VEGETATIVE STABILIZATION. 2. SELECT <u>ANNUAL</u> GRASS SEED FOR TEMPORARY COVER AREAS.
- SEED MIXES MAY VARY, SHOULD ONLY CONTAIN ANNUAL, NON-AGGRESSIVE SPECIES, AND GENERALLY INCLUDE RYE, WHEAT OR OAT SPECIES. SEED MIXES SHOULD OBTAINED THROUGH CONSULTATION WITH A CERTIFIED SEED PROVIDER AND WITH CONSIDERATION OF SOIL TYPE, LIGHT, MOISTURE AND USE APPLICATION. 4. PREPARE SEEDBED BY REMOVAL OF
- CONSTRUCTION AND WOODY DEBRIS. THEN SCARIFY OR RAKE SEEDBED.
- 5. SLOPES STEEPER THAN 1:3 SHOULD BE ROUGHENED.
- 6. APPLY SEED AS SOON AS POSSIBLE AFTER SEEDBED PREPARATION. MULCH IMMEDIATELY AFTER SEEDING ALL SLOPES, UNSTABLE SOLS, HEAVY CLAY SOILS AND ALL AREAS ADJACENT TO WETLANDS, WATERCOURSES, OR SENSITIVE AREAS.
- 7. PROTECT SEEDED AREAS FROM PEDESTRIAN OR VEHICULAR TRAFFIC. 8. DIVERT CONCENTRATED FLOWS AWAY FROM THE
- SEEDED AREA UNTIL VEGETATION IS ESTABLISHED. 9. INSPECT TEMPORARY SEEDED AREAS WEEKLY
- AND FOLLOWING EACH RAIN EVENT UNTIL FINAL GRADING AND STABILIZATION ARE COMPLETED. 10. TEMPORARY SEEDING MUST BE FOLLOWED BY PERMANENT SEEDING.

# PERMANENT SEEDING APPLICATIONS

- 1. TO FINALIZE STABILIZATION OF TEMPORARY SEEDING AREAS OR WHEN AN AREA NEEDS PERMANENT STABILIZATION FOLLOWING COMPLETION OF CONSTRUCTION. ALSO USED WHEN VEGETATIVE ESTABLISHMENT CAN CORRECT EXISTING SOIL EROSION OR SEDIMENTATION PROBLEM.
- 2. TO STABILIZE SOIL AND PREVENT OR REDUCE SOIL EROSION/SEDIMENTATION PROBLEMS FROM DEVELOPING.
- 3. USED ON CONSTRUCTION AND EARTH CHANGE SITES WHICH REQUIRE PERMANENT VEGETATIVE STABILIZATION. <u>DESIGN</u>
- 1. REVIEW SESC PLAN AND CONSTRUCTION
- PHASING TO IDENTIFY AREAS IN NEED OF PERMANENT VEGETATIVE STABILIZATION.
- 2. SELECT <u>PERENNIAL</u> GRASS AND GROUND COVER FOR PERMANENT COVER. 3. SEED MIXES MAY VARY BUT SHOULD BE SELECTED THROUGH CONSULTATION WITH A CERTIFIED SEED PROVIDER AND WITH CONSIDERATION OF SOIL TYPE, LIGHT, MOISTURE, USE APPLICATIONS, AND NATIVE SPECIES CONTENT.
- VEGETATIVE STABILIZATION [4] NOT TO SCALE

4. SOIL TESTS SHOULD BE PERFORMED TO DETERMINE THE NUTRIENT AND PH LEVELS IN THE SOIL. THE PH MAY NEED TO BE ADJUSTED TO BETWEEN 6.5 AND 7.0.

NEW VEGETATIVE AREA

- 5. PREPARE A 4-5" DEEP SEEDBED, WITH THE TOP 4" CONSISTING OF TOPSOIL.
- 6. SLOPES STEEPER THAN 1:3 SHOULD BE ROUGHENED.
- 7. APPLY SEED AS SOON AS POSSIBLE AFTER SEEDBED PREPARATION. SEED MAY BE BROADCAST BY HAND, HYDROSEEDING, OR BY USING MECHANICAL DRILLS.
- 8. DORMANT SEED MIXES ARE FOR USE AFTER THE GROWING SEASON, USING SEED WHICH LIES DORMANT IN THE WINTER AND BEGINS GROWING AS SOON AS SITE CONDITIONS BECOME FAVORABLE.
- 9. MULCH IMMEDIATELY AFTER SEEDING. PROTECT SEEDED AREAS FROM PEDESTRIAN OR VEHICULAR TRAFFIC.
- 10. DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDED AREA UNTIL VEGETATION IS ESTABLISHED.

## TO BE COMPLETED BY CONTRACTOR FOR PERMIT

SOIL EROSION / SEDIMENTATION CONTROL OPERATION TIME SCHEDULE													
CONSTRUCTION SEQUENCE	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	ост	NOV	DEC
STRIP & STOCKPILE TOPSOIL													
ROUGH GRADE / SEDIMENT CONTROL													
TEMP. CONTROL MEASURES													
STORM FACILITIES													
TEMP. CONSTRUCTION ROADS													
FOUNDATION / BLDG. CONSTRUCTION													
SITE CONSTRUCTION													
PERM. CONTROL MEASURES													
FINISH GRADING													
LANDSCAPING													

## R: DATE: BY: 10/23/24 SAL GPA200301F FLINT RIVERFRONT RESTORATION - PHASE 2 SOIL EROSION & SEDIMENTATION CONTROL DETAILS - 1 G2-1

## TEMPORARY SEEDING APPLICATIONS

- 1. WHEN AN AREA NEEDS STABILIZATION DURING A BREAK IN CONSTRUCTION.
- 2. TO STABILIZE SOIL AND PREVENT OR REDUCE SOIL EROSION/SEDIMENTATION PROBLEMS FROM DEVELOPING.
- 3. USED ON CONSTRUCTION AND EARTH CHANGE SITES WHICH REQUIRE TEMPORARY VEGETATIVE STABILIZATION.

## DESIGN

- 1. REVIEW SESC PLAN AND CONSTRUCTION PHASING TO IDENTIFY AREAS IN NEED OF TEMPORARY VEGETATIVE STABILIZATION.
- 2. SELECT ANNUAL GRASS SEED FOR TEMPORARY COVER AREAS. SEED MIXES MAY VARY, SHOULD ONLY CONTAIN ANNUAL, NON-AGGRESSIVE SPECIES, AND GENERALLY INCLUDE RYE, WHEAT OR OAT SPECIES. SEED MIXES SHOULD OBTAINED THROUGH CONSULTATION WITH A CERTIFIED SEED PROVIDER AND WITH CONSIDERATION OF SOIL TYPE, LIGHT, MOISTURE AND USE APPLICATION.
- 4. PREPARE SEEDBED BY REMOVAL OF CONSTRUCTION AND WOODY DEBRIS. THEN SCARIFY OR RAKE SEEDBED.
- 5. SLOPES STEEPER THAN 1:3 SHOULD BE ROUGHENED.
- 6. APPLY SEED AS SOON AS POSSIBLE AFTER SEEDBED PREPARATION. MULCH IMMEDIATELY AFTER SEEDING ALL SLOPES, UNSTABLE SOILS, HEAVY CLAY SOILS AND ALL AREAS ADJACENT TO WETLANDS, WATERCOURSES, OR SENSITIVE AREAS.
- 7. PROTECT SEEDED AREAS FROM PEDESTRIAN OR VEHICULAR TRAFFIC.
- 8. DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDED AREA UNTIL VEGETATION IS ESTABLISHED.
- 9. INSPECT TEMPORARY SEEDED AREAS WEEKLY AND FOLLOWING EACH RAIN EVENT UNTIL FINAL GRADING AND STABILIZATION ARE COMPLETED.
- 10. TEMPORARY SEEDING MUST BE FOLLOWED BY PERMANENT SEEDING.

## PERMANENT SEEDING **APPLICATIONS**

- 1. TO FINALIZE STABILIZATION OF TEMPORARY SEEDING AREAS OR WHEN AN AREA NEEDS PERMANENT STABILIZATION FOLLOWING COMPLETION OF CONSTRUCTION. ALSO USED WHEN VEGETATIVE ESTABLISHMENT CAN CORRECT EXISTING SOIL EROSION OR SEDIMENTATION PROBLEM.
- 2. TO STABILIZE SOIL AND PREVENT OR REDUCE SOIL EROSION/SEDIMENTATION PROBLEMS FROM DEVELOPING.
- 3. USED ON CONSTRUCTION AND EARTH CHANGE SITES WHICH REQUIRE PERMANENT VEGETATIVE STABILIZATION.

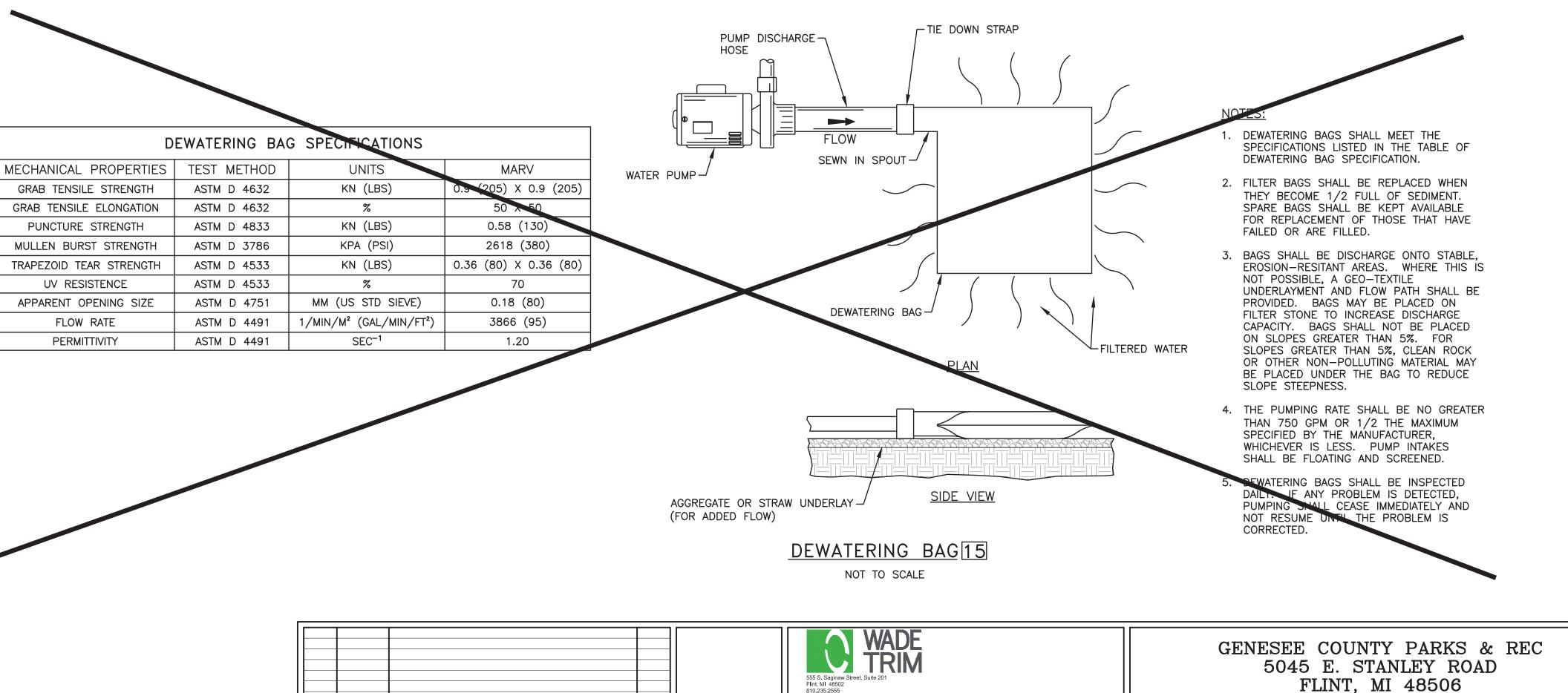
## DESIGN

- 1. REVIEW SESC PLAN AND CONSTRUCTION PHASING TO IDENTIFY AREAS IN NEED OF PERMANENT VEGETATIVE STABILIZATION.
- 2. SELECT PERENNIAL GRASS AND GROUND COVER 10, DIVERT CONCENTRATED FLOWS AWAY FROM THE FOR PERMANENT COVER.
- 3. SEED MIXES MAY VARY BUT SHOULD BE SELECTED THROUGH CONSULTATION WITH A CERTIFIED SEED PROVIDER AND WITH CONSIDERATION OF SOIL TYPE, LIGHT MOISTURE, USE APPLICATIONS, AND NATIVE SPECIES CONTENT.
- VEGETATIVE STABILIZATION 4 NOT TO SCALE

4. SOIL TESTS SHOULD BE PERFORMED TO DETERMINE THE NUTRIENT AND PH LEVELS IN THE SOIL. THE PH MAY NEED TO BE ADJUSTED TO BETWEEN 6.5 AND 7.0.

NEW VEGETATIVE AREA

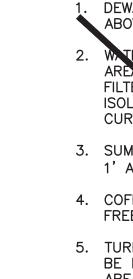
- 5. PREPARE A 4-5" DEEP SEEDBED, WITH THE TOP 4" CONSISTING OF TOPSOIL.
- 6. SLOPES STEEPER THAN 1:3 SHOULD BE ROUGHENED.
- 7. APPLY SEED AS SOON AS POSSIBLE AFTER SEEDBED PREPARATION. SEED MAY BE BROADCAST BY HAND, HYDROSEEDING, OR BY USING MECHANICAL DRILLS.
- 8. DORMANT SEED MIXES ARE FOR USE AFTER THE GROWING SEASON, USING SEED WHICH LIES DORMANT IN THE WINTER AND BEGINS GROWING AS SOON AS SITE CONDITIONS BECOME FAVORABLE.
- 9. MULCH IMMEDIATELY AFTER SEEDING. PROTECT SEEDED AREAS FROM PEDESTRIAN OR
- VEHICULAR TRAFFIC. SEEDED AREA UNTIL VEGETATION IS ESTABLISHED.



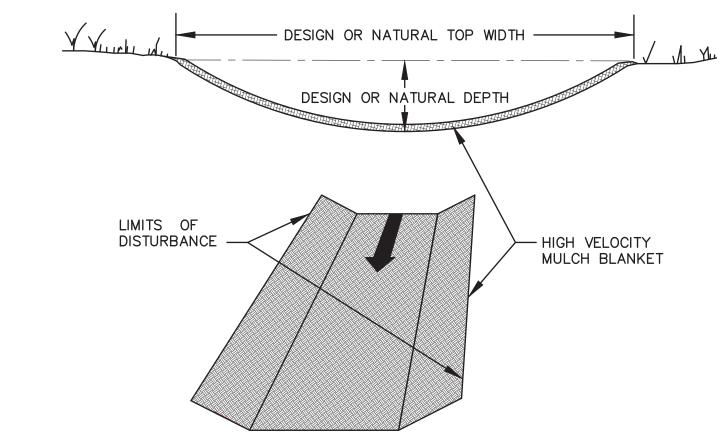
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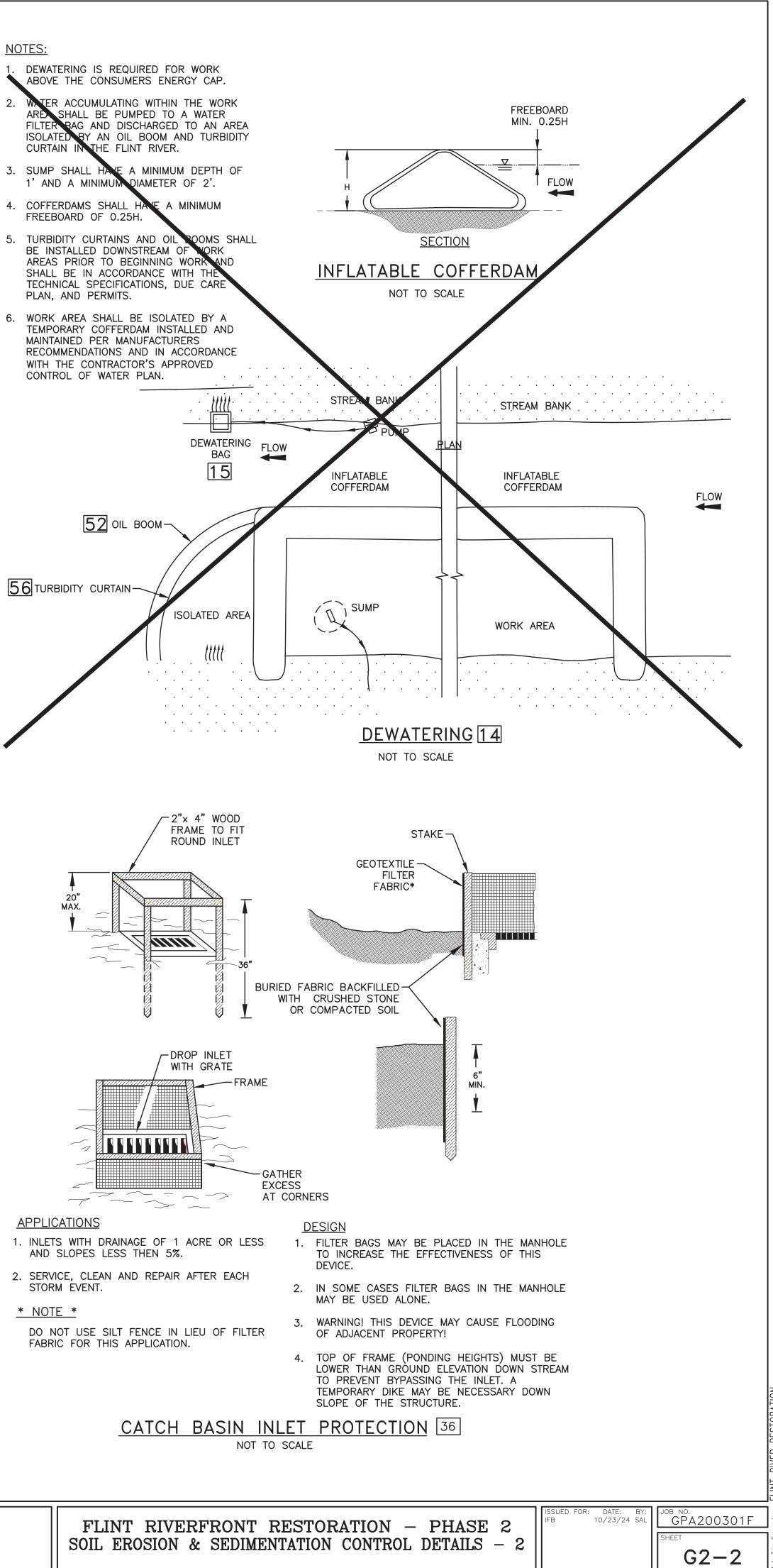
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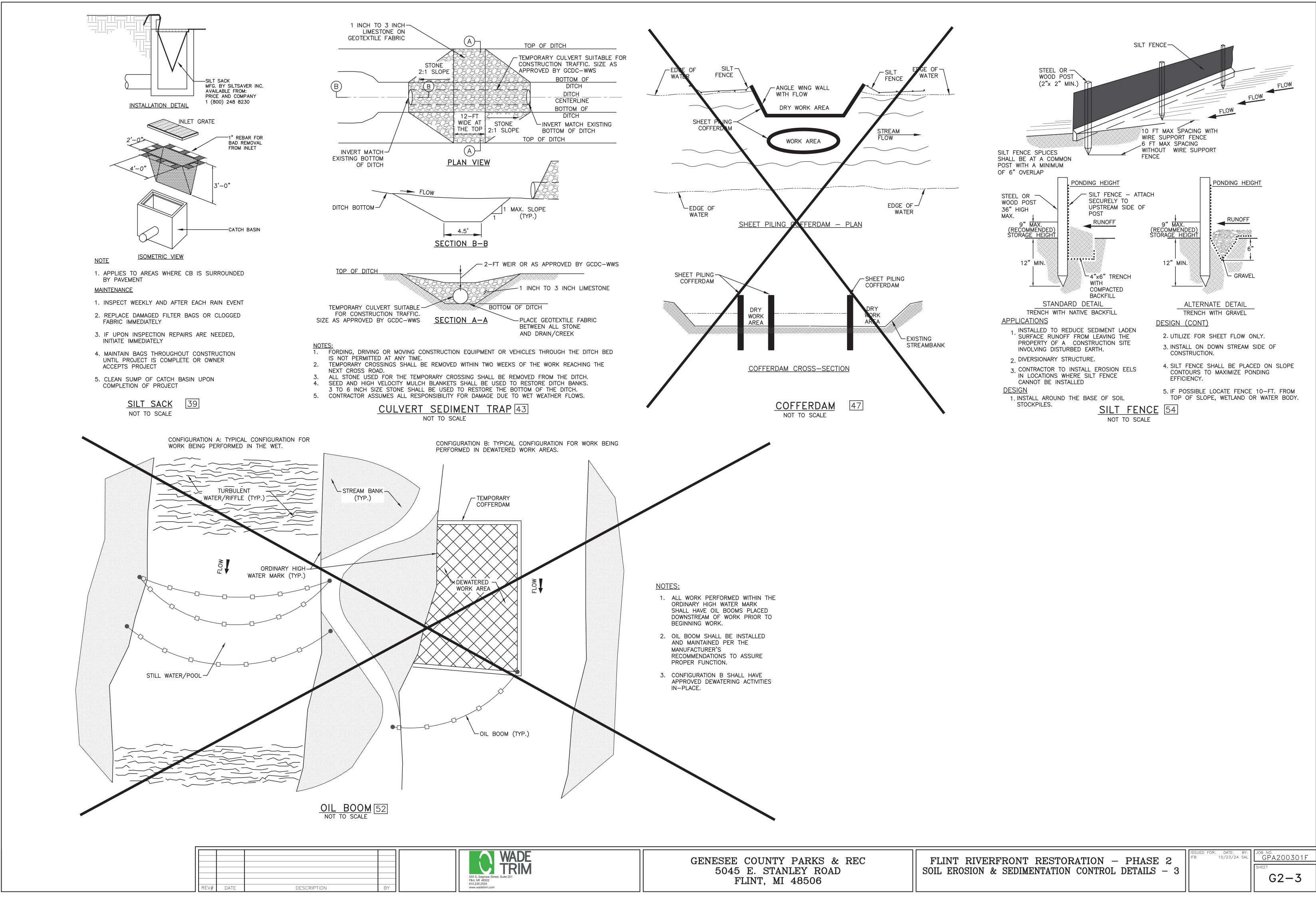
## **APPLICATIONS**

- 1. STEEP SLOPES.
- 2. CHANNEL AND ROADSIDE DITCH BOTTOMS.
- USE HYDROSEED OR CRIMPED STRAW TO STABILIZE THE GRASSED LINED CHANNEL, IMMEDIATELY AFTER GRADING (ONE DAY MAX).
- 4. MUST NOT BE PLACED ON FROZEN SOIL: MUST REMAIN IN IN CONTACT WITH SEED AND SOIL.
- MUST BE USED DURING THE NON-GROWING SEASON TO MINIMIZE EROSION UNTIL VEGETATION IS ESTABLISHED.
- SEEDING WITH MULCH BLANKET AND/OR MATTING 6

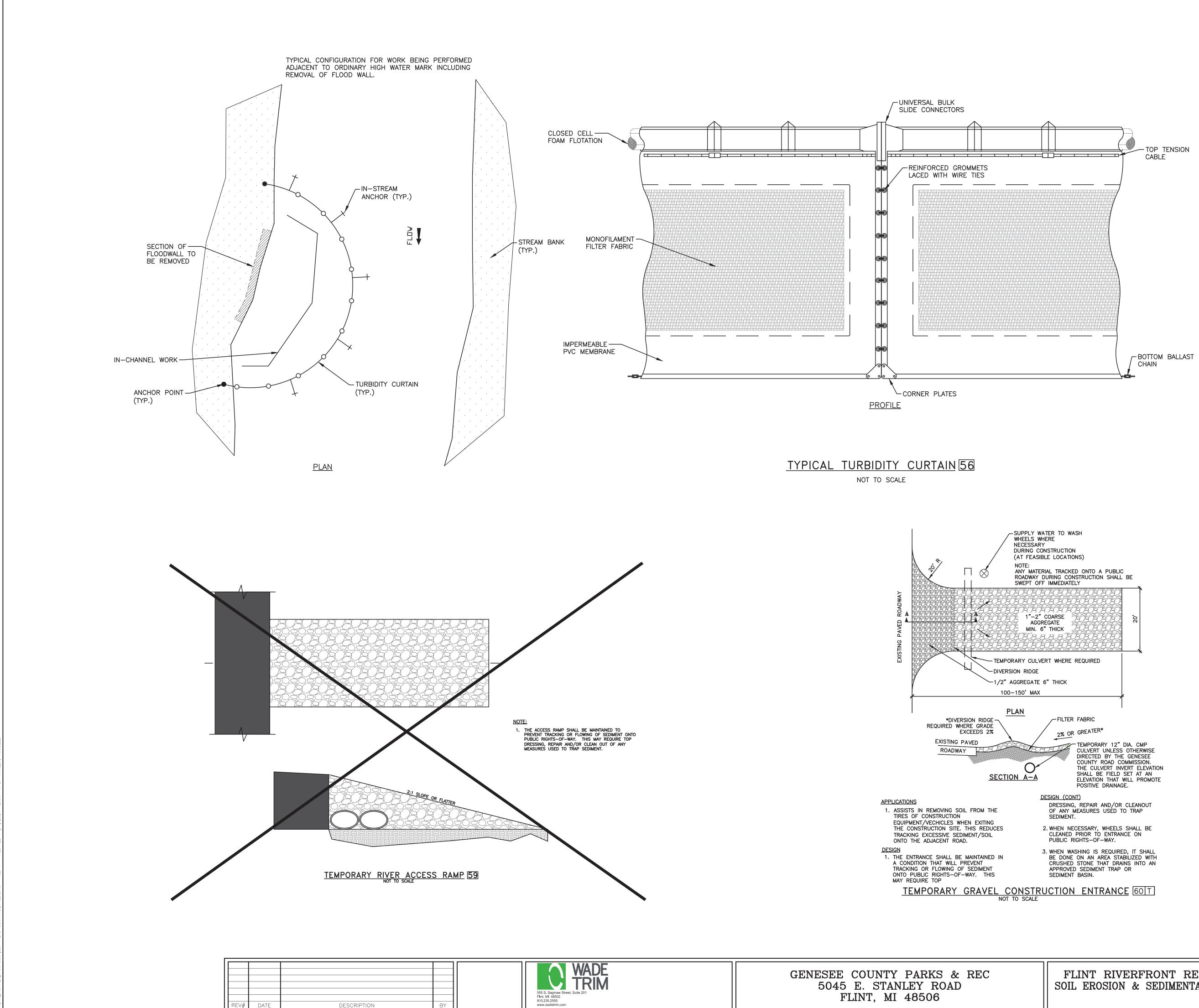
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FLINT RIVERFRONT RESTORATION – PHASE 2	ISSUED FOR: DATE: BY: IFB 10/23/24 SAL	GPA200301F
SOIL EROSION & SEDIMENTATION CONTROL DETAILS - 3		G2-3



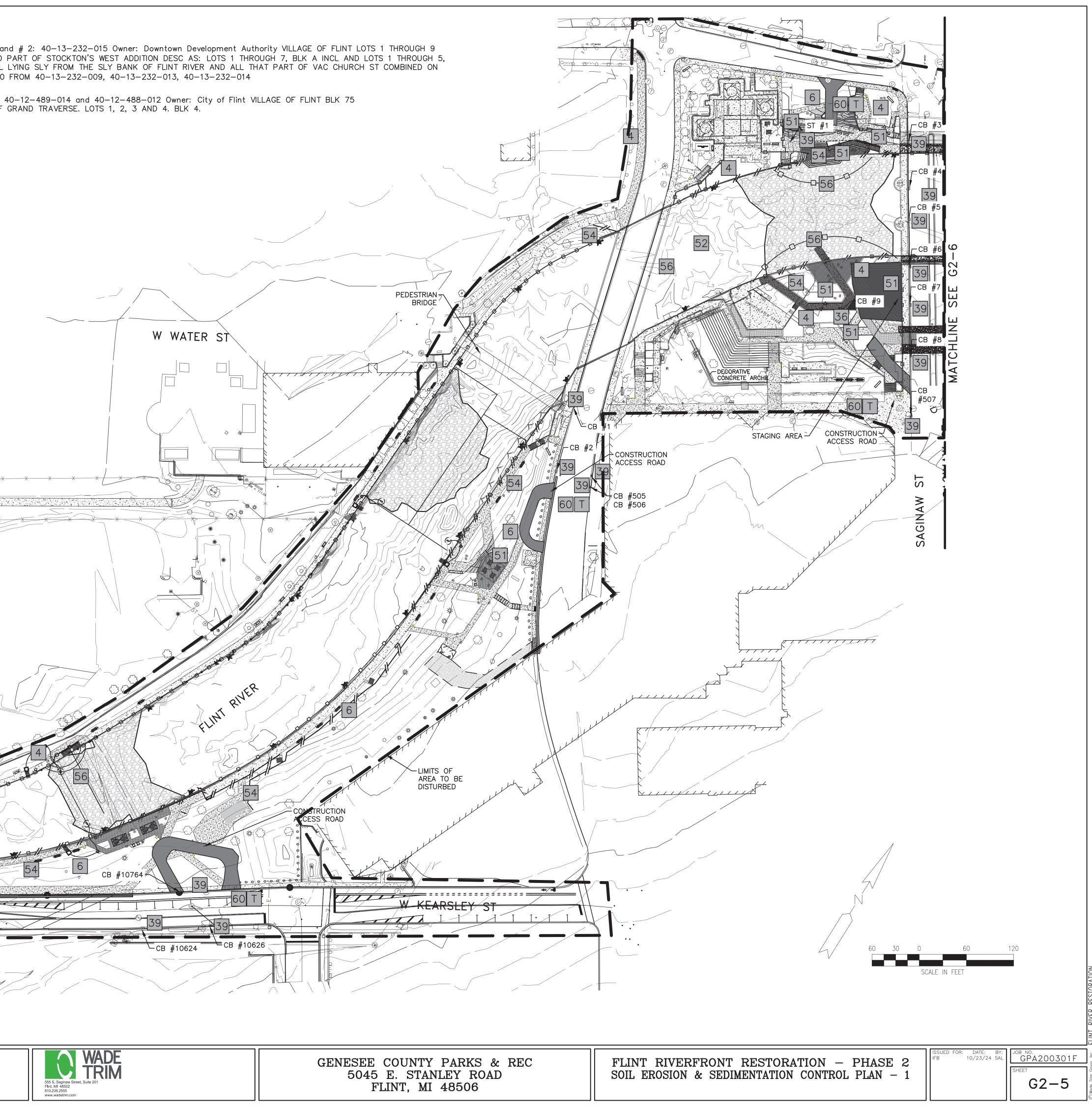
## NOTES:

- 1. ALL WORK PERFORMED WITHIN TO THE ORDINARY HIGH WATER MARK, SHALL BE ISOLATED BY A TURBIDITY CURTAIN PRIOR TO BEGINNING WORK AS SHOWN ON SHEET G2-1.
- 2. TURBIDITY CURTAINS SHALL BE ANCHORED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS TO PREVENT DRIFT DOWNSTREAM.
- 3. BARRIERS SHOULD BE A BRIGHT COLOR (YELLOW OR "INTERNATIONAL ORANGE" ARE RECOMMENDED) FOR VISIBILITY.
- 4. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE TO STABILIZE THE BARRIER WITH NUMBER AND SPACING DEPENDENT ON WATERWAY VELOCITIES AND MANUFACTURER'S RECOMMENDATIONS. AT THE RIFFLE 4 LOCATION (HAMILTON DAM), SECURING METHODS THAT INVOLVE INVASIVE SUBSURFACE ACTIVITIES, INCLUDING BUT NOT LIMITED TO, ANCHORING, SPUDDING, OR DRIVING, ARE PROHIBITED IN THE CONSUMER'S ENERGY SEDIMENT CAP AREA.
- 5. IN SHALLOW WATER (2 FEET OF DEPTH OR LESS) A TURBIDITY CURTAIN MAY BE INSTALLED ON STAKES DRIVEN INTO THE BED OF THE STREAM. STANDARD 5-FOOT PANELS SHALL BE SUED FOR DEPTHS 5 FEET DEEP OR LESS, WITH ADDITIONAL PANELS ADDED AS NEEDED TO REACH THE BOTTOM FOR DEPTHS GREATER THAN 5 FEET.
- 6. FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH WIRE TIES OR MINIMUM 5/8" DIAMETER POLYPROPYLENE ROPE. FABRIC SHALL BE SEAMED TOGETHER IN A MANNER THAT RETAINS OVERALL TENSILE STRENGTH.
- 7. DESIGN OF CURTAIN AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FILTER CLOTH SKIRT SHOULD BE ABLE TO WITHSTAND THE FORCES IMPARTED ON IT DUE TO EXPECTED WIND VELOCITY OR STREAM VELOCITY.

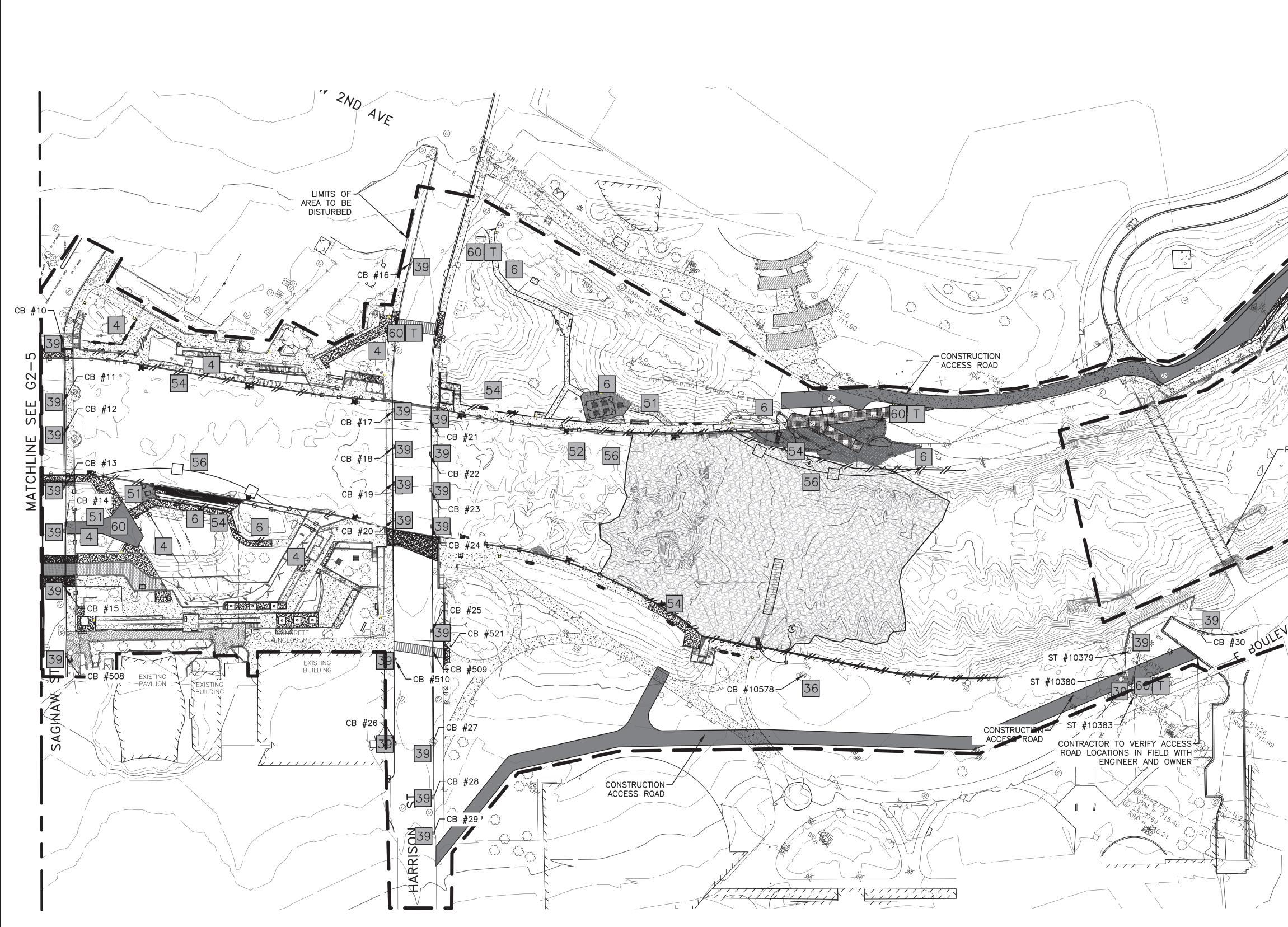
FLINT RIVERFRONT RESTORATION - PHASE 2	ISSUED FOR: DATE: BY: IFB 10/23/24 SAL	JOB NO. GPA200301F	Group. Inc.
SOIL EROSION & SEDIMENTATION CONTROL DETAILS – 4		G2-4	Vade Trim

mo	dified)	nified keying system		STREAMS AND WATERWAYS	SURFACE DRAINAGEWAYS	ENCLOSED DRAINAGE (inlet & Outfall Control)	LARGE FLAT SURFACE AREAS	BORROW AND STOCKPILE AREAS	ENT RTIES	Riffle # 1 o INCL; ALSO BLK B INCL 11/19/2020
$\overset{()}{\star}$ ind to	/ licates applico one or more	ability of a specific control measure e of the seven problem areas	SLOPES	STREAI WATER	SURFA DRAIN/	ENCLOSI (inlet &	LARGE SURFA	BORRO STOCK	ADJACENT PROPERTIES	Riffle # 3: VILLAGE OF
KEY	DETAIL	CHARACTERISTICS	A	B	С	D	E	F	G	
4	Vegetative Stabilization	MAY UTILIZE A VARIETY OF PLANT MATERIAL STABILIZES SOIL SLOWS RUNOFF VELOCITY FILTERS SEDIMENT FROM RUNOFF	*		$\ast$		$\ast$	$\ast$	$\ast$	
6	eding with Mulch Blanket and/or Matt	FACILITATES ESTABLISHMENT OF VEGETATIVE COVER EFFECTIVE FOR DRAINAGEWAYS WITH LOW VELOCITY EASILY PLACED IN SMALL QUANTITIES BY INEXPERIENCED PERSONNEL SHOULD INCLUDE PREPARED TOPSOIL BED	*		$\ast$			*	*	
4	Dewatering									
5	Dewatering Bag									
36	atch Basin Inlet Protectio	COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF					*		*	
39	Fabric Filter Curb Inlet Protection	CAN UTILIZE MATERIAL FOUND ON SITE EASY TO CONSTRUCT FILTERS SEDIMENT FROM RUNOFF								
13	Culvert Sediment Trap	EAST TO INSTALL AT INLET KEEPS CULVERT CLEAN AND FREE FLOWING MAY BE CONSTRUCTED OF LUMBER OR LOGS								
+7		WORK CAN BE CONTINUED DURING MOST ANTICIPATED STREAM CONDITIONS								
51	Retaining Wall	REDUCES GRADIENT WHERE SLOPES ARE EXTREMELY STEEP PERMITS RETENTION OF EXISTING VEGETATION, KEEPING SOIL STABLE IN CRITICAL AREAS, MINIMIZES MAINTENANCE								
52	OIL BOOM									
; 4	Silt Fence	- USES GEOTEXTILE FABRIC AND POSTS OR POLES EASY TO CONSTRUCT AND LOCATE AS NECESSARY	*				*		*	
56	Turbidity Curtain	A TURBIDITY CURTAIN IS USED WHEN SLACK WATER AREA IS NECESSARY TO ISOLATE CONSTRUCTION ACTIVITIES FROM THE WATERCOURSE. THE STILL WATER AREA CONTAINS THE SEDIME WITHIN THE CONSTRUCTION LIMITS	NT							
59	Temporary River Access Ramp									— <u>X</u> X
50	Temporary Construction Entrance	ASSISTS IN REMOVING SOIL FROM THE TIRES OF CONSTRUCTION EQUIPMENT/VEHICLES WHEN EXITING THE CONSTRUCTION S THIS REDUCES TRACKING EXCESSIVE SEDIMENT/SOIL ONTO THE ADJACENT ROAD	ITE.						*	
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				GRAND TRAVERSI	5					
				TRAVERS						

REV# DATE DESCRIPTION







Riffle # 4 41-07-361-012 Owner: Regents of The University of Michigan

BLKS 5, 10, 11, 32 AND 33 OF VILLAGE OF FLINT RIVER; ALSO BLKS 15, 16, 30 AND 31 AND PART OF BLKS 28 AND 29 OF VILLAGE OF FLINT RIVER AND A CONTIG PART OF BLKS A & C AND PART OF THE RAILROAD R/W OF THE NEW PLAT OF BIRCHMORE'S ADDITION AND A CONTIG PART OF LOTS 5, 6, 7 & 8 OF BISHOP'S REPLAT OF PART OF LOTS 1 & 2, BLK A, BIRCHMORE'S ADDITION DESC AS FOLLS: BEG AT NWLY COR OF LOT 7 OF SD REPLAT; TH S 31 DEG 33 MIN E ALG WLY LINE OF SD LOTS 7 & 8. 64.66 FT; TH N 13 DEG 47 MIN 05 SEC E, TO NELY COR OF SD LOT 7; TH N 13 DEG 47 MIN 05 SEC E, 172.77 FT; TH N 22 DEG 39 MIN 39 SEC E, 99.49 FT; TH N 28 DEG 41 MIN 56 SEC E, 156.90 FT; TH N 30 DEG 46 MIN 06 SEC E, 236.95 FT; TH N 32 DEG 00 MIN 43 SEC E, 55 FT; TH N 58 DEG 59 MIN 30 SEC W, 32.7 FT TO NWLY LINE OF SD R.R. R/W (SD R/W ALSO BEING SWLY LINE OF LOT 13, BLK A OF JOHN LUCAS REPLAT); TH SWLY ALG SD NWLY R/W LINE TO A LINE 18.75 FT SWLY FROM AND PARL WITH NELY LINE OF LOT 8 OF SD BLK A; TH N 63 DEG 18 MIN 30 SEC W, 144 FT TO NWLY LINE OF SD LOT 8 AS ORIGINALLY PLATTED; TH N 56 DEG 17 MIN W, 52 FT TO SELY LINE OF SD BLK "C" AS ORIGINALLY PLATTED; TH S 26 DEG 43 MIN W ALG SD SELY LINE 294.63 FT; TH N 61 DEG 04 MIN 46 SEC W, TO SELY BANK OF FLINT RIVER; TH SWLY ALG SD SELY LINE OF LOT 6. OF STEVENS ST. AS ORIGINALLY PLATTED, EXT NLY; TH SELY ALG SD C.L. AND ITS NLY EXT TO NLY LINE OF VACATED FIRST ST; TH NELY ALG SD NLY LINE OF FLOT 8 OF SD BLK, 41.5 FT NELY FROM NWLY COR OF SD LOT; TH NLY TO A PT ON NELY LINE OF LOT 5 OF SD BLK 28, 10 FT SELY FROM NELY COR OF SD LOT AS ORIGINALLY PLATTED; TH NWLY ALG SD NELY LINE 10 FT TO SD NELY COR OF SD LOT 5.4 SO RIGINALLY PLATTED; TH NWLY ALG SD NELY LINE OF LOT 5 OF SD BLK 28, 10 FT SELY FROM NELY COR OF SD LOT AS ORIGINALLY PLATTED; TH NWLY FROM NWLY COR OF SD LOT; TH NLY TO A PT ON NELY LINE OF LOT 14, BLK 29 AS ORIGINALLY PLATTED, 34.15 FT SWLY FROM SELY COR OF SD LOT 14; TH NELY TO A LINE 2.5 FT SWLY FROM AND PARL WITH NELY LINE OF LOT 14, BLK 29, AT A PT 26 FT NWLY FROM SELY LINE OF SD LOT; TH NLY TO A PT ON NELY LINE OF LO

REV#	DATE	DESCRIPTION	ΒY

Riffle # 4 41-07-356-005 Owner: City of Flint VILLAGE OF GRAND TRAVERSE. LOTS 5, 6 AND 7; ALSO THAT PART OF LOTS 1, 2, 3 AND 4 LYING ELY OF THE FOLL DESC LINE: BEG AT A PT IN N LINE OF LOT 4, 10 FT N 89 DEG 45 MIN E FROM NW COR OF SD LOT; TH S 1 DEG 15 MIN E = WITH W LINE OF SD LOT 7.44 FT; TH ON A TANG CURVE TO THE LEFT, RAD 369.26 FT, 201.71 FT; TH S 32 DEG 33 MIN E TO NLY BANK OF FLINT RIVER, BLK 16; ALSO BEG AT NW COR OF LOT 3 AS ORIGINALLY PLATTED; TH S AT RT ANGLES TO SECOND AVE. TO FLINT RIVER; TH E ALG RIVER TO S LINE OF SECOND AVE; TH W ALG SD S LINE TO BEG, BLK 17; ALSO THAT PART OF HENDERSON ST, VACATED, LYING BET AND ADJ SD BLKS 16 AND 17



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KEY 4 6 14 15 36	Vegetative Stabilization	MAY UTILIZE A VARIETY OF PLANT MATERIAL         STABILIZES SOIL         SLOWS RUNOFF VELOCITY         FILTERS SEDIMENT FROM RUNOFF         FACILITATES ESTABLISHMENT OF VEGETATIVE COV         EFFECTIVE FOR DRAINAGEWAYS WITH LOW VELOCI         EASILY PLACED IN SMALL QUANTITIES BY INEXPE         PERSONNEL SHOULD INCLUDE PREPARED TOPSOIL         COLLECTS HIGH VELOCITY CONCENTRATED RUNOF         MAY USE FILTER CLOTH OVER INLET         CAN UTILIZE MATERIAL FOUND ON SITE	/ER TY RIENCED _ BED	*		*			*
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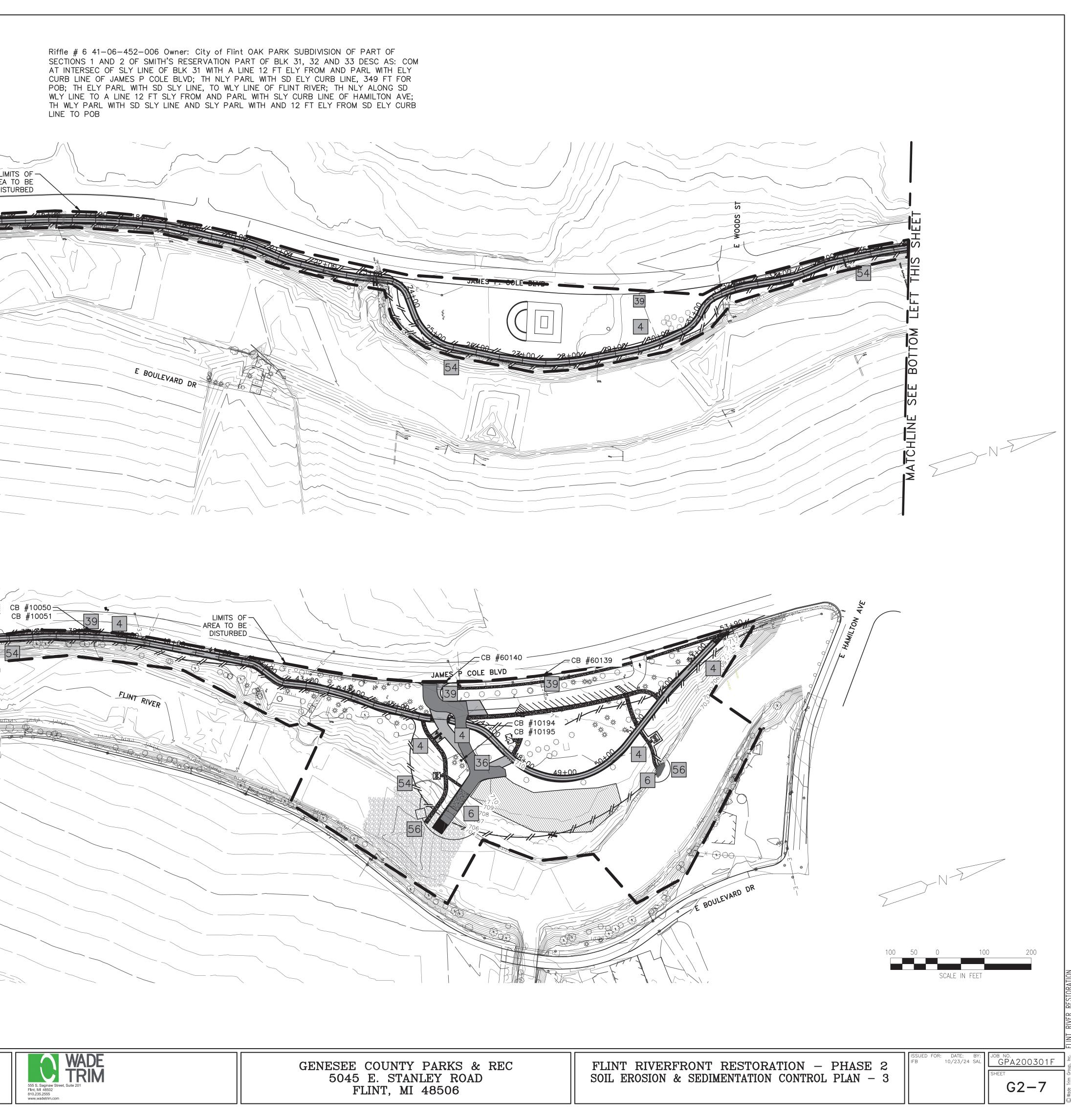
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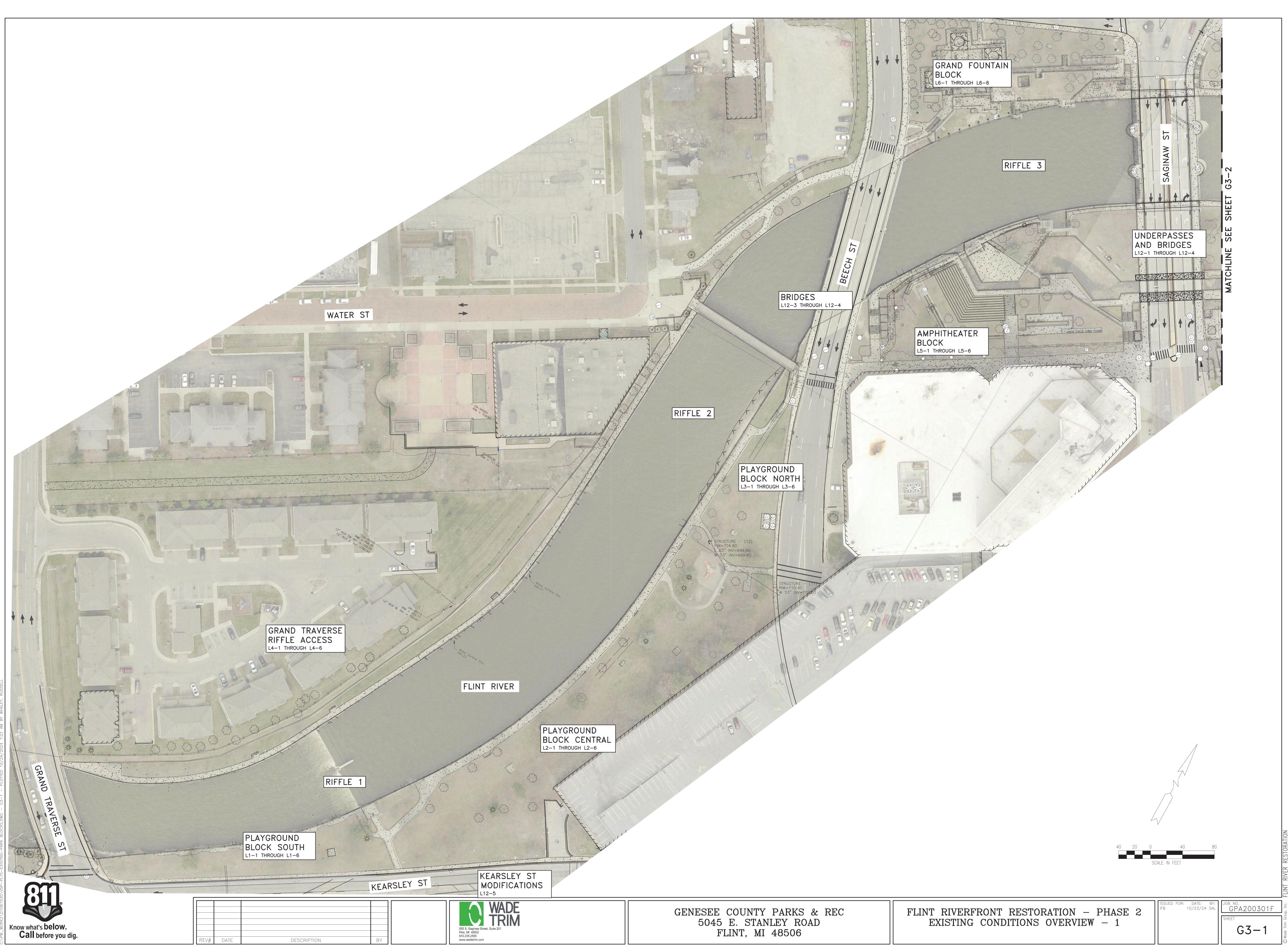
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(M)( * ind KEY 4 6	DETAIL Vegetative Stabilization Vegetative Stabilization Dewatering Dewatering Bag Catch Basin Inlet Protection Fabric Filter Curb Inlet Protection	bility of a specific control is of the seven problem area         CHARACTERISTICS         MAY UTILIZE A VARIETY OF PLANT MATERIAL STABILIZES SOIL         SLOWS RUNOFF VELOCITY         FILTERS SEDIMENT FROM RUNOFF         FACILITATES ESTABLISHMENT OF VEGETATIVE COVE         EFFECTIVE FOR DRAINAGEWAYS WITH LOW VELOCIT         EASILY PLACED IN SMALL QUANTITIES BY INEXPER         PERSONNEL SHOULD INCLUDE PREPARED TOPSOIL         COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF         MAY USE FILTER CLOTH OVER INLET         CAN UTILIZE MATERIAL FOUND ON SITE         EAST TO CONSTRUCT         FILTERS SEDIMENT FROM RUNOFF         EAST TO INSTALL AT INLET         KEEPS CULVERT CLEAN AND FREE FLOWING         MAY BE CONSTRUCTED OF LUMBER OR LOGS         WORK CAN BE CONTINUED DURING MOST ANTICIPANING			C *		E *	BS F *		
(M)( * ind KEY 4 14 15 15 36 39 43	DETAIL Vegetative Stabilization Vegetative Stabilization Dewatering Dewatering Bag Catch Basin Inlet Protection Fabric Filter Curb Inlet Protection	bility of a specific control of of the seven problem area         CHARACTERISTICS         MAY UTILIZE A VARIETY OF PLANT MATERIAL STABILIZES SOIL         Stabilizes SETABLISHMENT OF VEGETATIVE COVE         EFFECTIVE FOR DRAINAGEWAYS WITH LOW VELOCIT         EASILY PLACED IN SMALL QUANTITIES BY INEXPER         PERSONNEL SHOULD INCLUDE PREPARED TOPSOIL         COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF         CAN UTILIZE MATERIAL FOUND ON SITE         EASY TO CONSTRUCT         FILTERS SEDIMENT FROM RUNOFF         EAST TO INSTALL AT INLET         KEEPS CULVERT CLEAN AND FREE FLOWING         MAY BE CONSTRUCTED OF LUMBER OR LOGS         WORK CAN BE CONTINUED DURING MOST ANTICIPAR         CULEAR WATER CAN BE PUMPED DIRECTLY BACK IN	measure S A ER TY RIENCED BED C C C C C C C C C C C C C		C *		E *	BS F *		
(M)( * ind KEY 4 14 15 36 39 43	Licates application DETAIL Vegetative Stabilization Vegetative Stabilization Dewatering Dewatering Bag Catch Basin Inlet Protection Fabric Filter Curb Inlet Protection Culvert Sediment Trap Cofferdam Retaining Wall	bility of a specific control is of the seven problem area         CHARACTERISTICS         MAY UTILIZE A VARIETY OF PLANT MATERIAL STABILIZES SOIL         SLOWS RUNOFF VELOCITY         FILTERS SEDIMENT FROM RUNOFF         FACILITATES ESTABLISHMENT OF VEGETATIVE COVE         EAST TO IN STALL AT INLET         KEEPS CULVERT CLEAN AND FREE FLOWING         MAY UTILIZE MATERIAL FOUND ON SITE         EAST TO INSTALL AT INLET         KEEPS CULVERT CLEAN AND FREE FLOWING         MAY USE FILTER CAN BE CONTINUED DURING MOST ANTICIPA         WORK CAN BE CONTINUED DURING MOST ANTICIPA         WORK CAN BE CONTINUED DURING MOST ANTICIPA	measure		C *		E *	BS F *		
(M)( * ind KEY 4 14 15 15 36 39 43	DETAIL Vegetative Stabilization DETAIL Vegetative Stabilization Dewatering Dewatering Bag Catch Basin Inlet Protection Fabric Filter Curb Inlet Protection Culvert Sediment Trap	bility of a specific control of the seven problem area         CHARACTERISTICS         MAY UTILIZE A VARIETY OF PLANT MATERIAL STABILIZES SOIL         SLOWS RUNOFF VELOCITY         FILTERS SEDIMENT FROM RUNOFF         FACILITATES ESTABLISHMENT OF VEGETATIVE COVE         EFFECTIVE FOR DRAINAGEWAYS WITH LOW VELOCIT         EASILY PLACED IN SMALL QUANTITIES BY INEXPER         PERSONNEL SHOULD INCLUDE PREPARED TOPSOIL         COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF         MAY USE FILTER CLOTH OVER INLET         COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF         MAY USE FILTER CLOTH OVER INLET         CAN UTILIZE MATERIAL FOUND ON SITE         EAST TO INSTALL AT INLET         KEEPS CULVERT CLEAN AND FREE FLOWING         MAY BE CONSTRUCTED OF LUMBER OR LOGS         WORK CAN BE CONTINUED DURING MOST ANTICIPA         CLEAR WATER CAN BE PUMPED DIRECTLY BACK IN         REDUCES GRADIENT WHERE SLOPES ARE EXTREME         PERMITS RETENTION OF EXISTING VEGETATION, KEE	measure		C *		E *	BS F *		

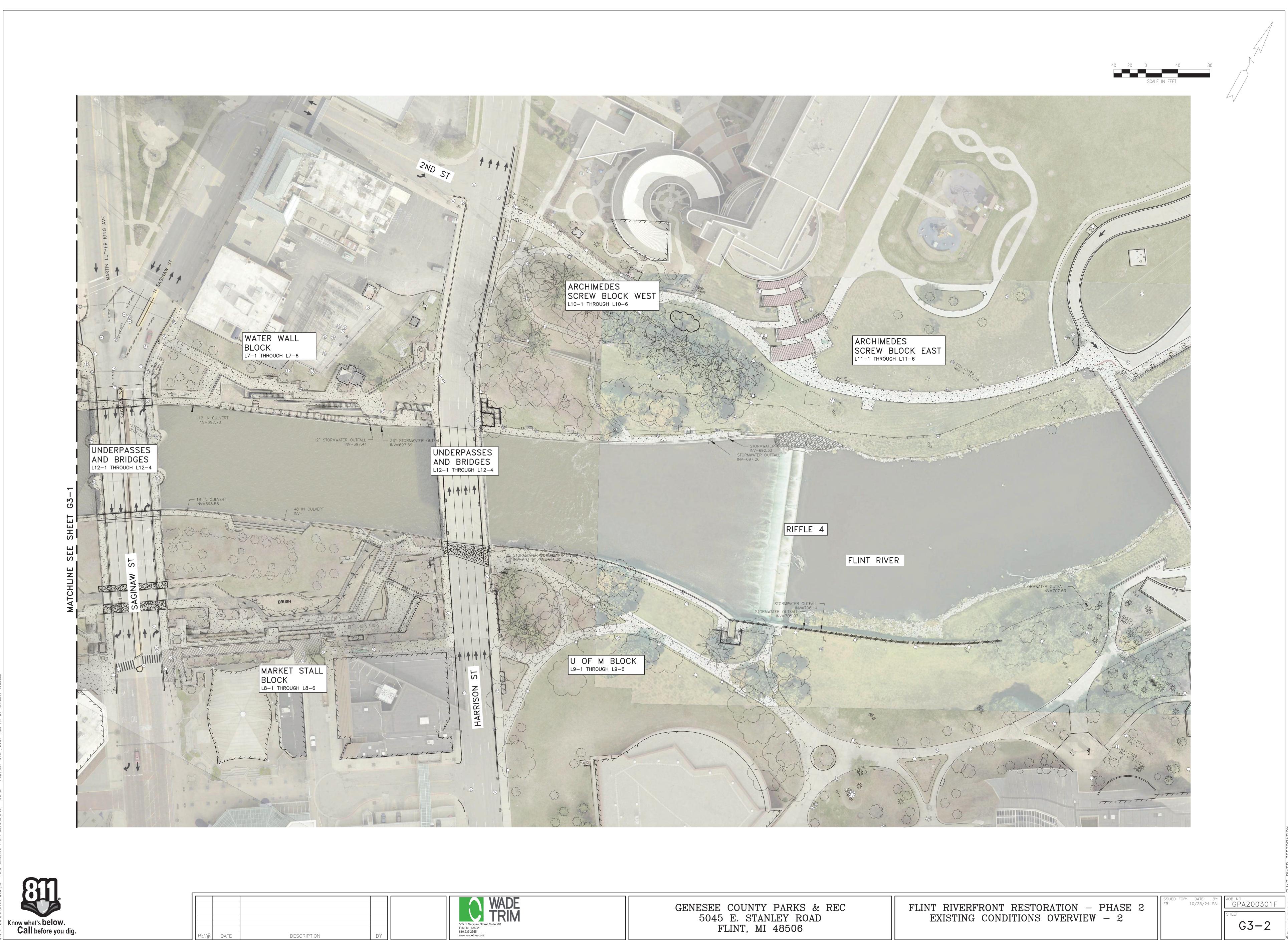
T MANAGER: Jason Kenyon WORK2\D1061530\GDT-PLTS-COUNTYDETAILS.DWG - G2-7 - PLOTTED 11/1/2024 12:07 PM BY WHALEY,		RUS9	
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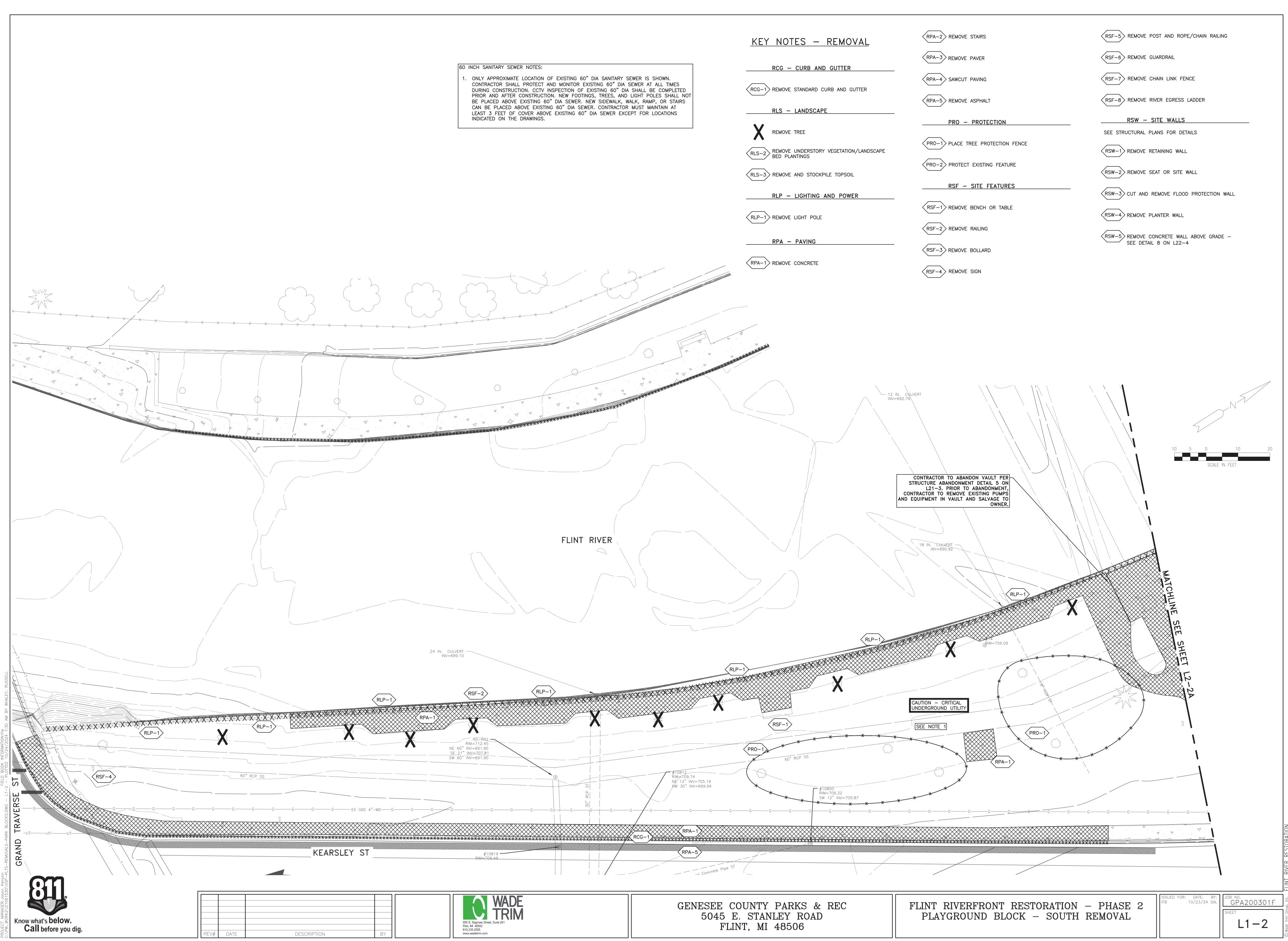


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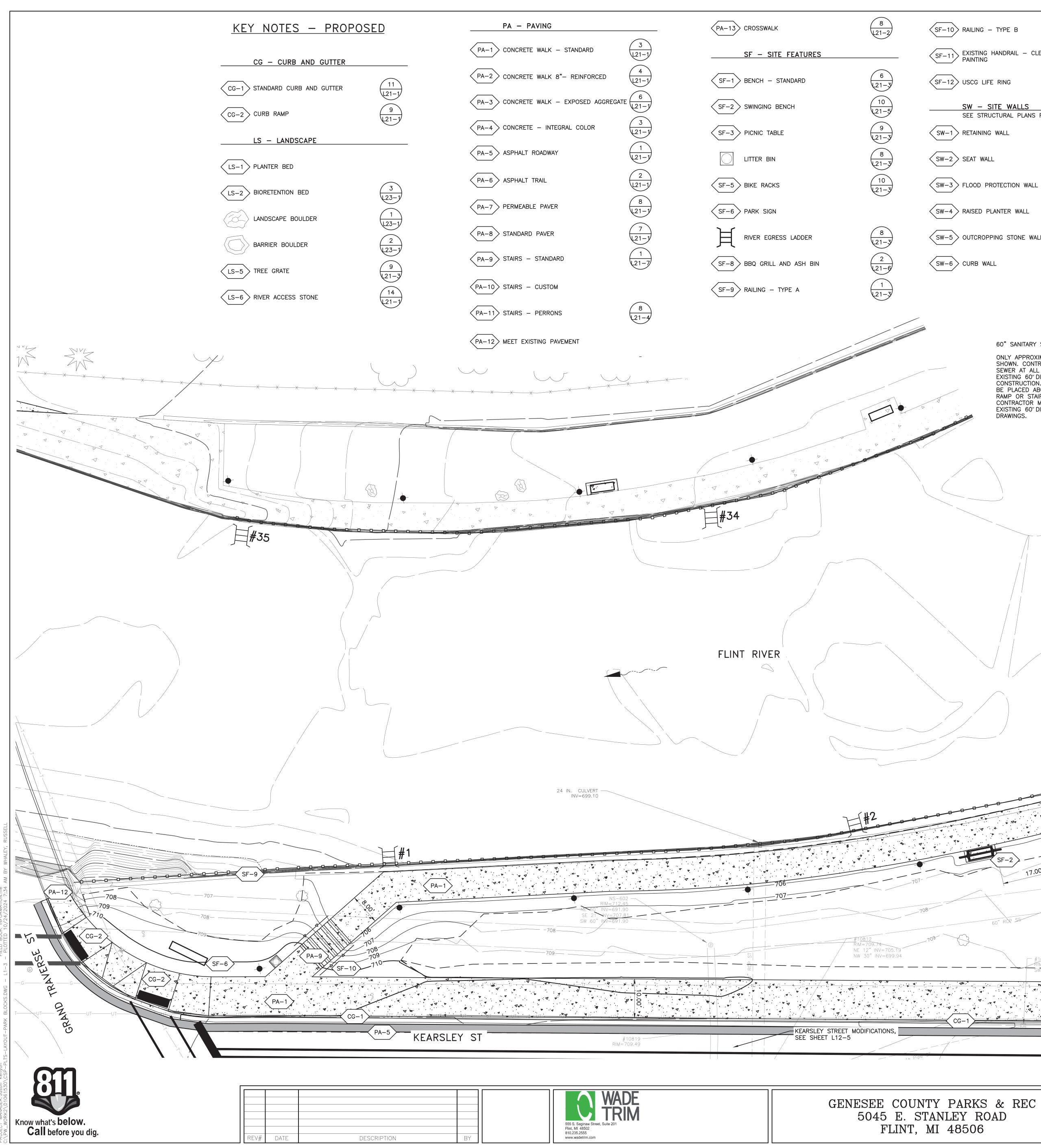






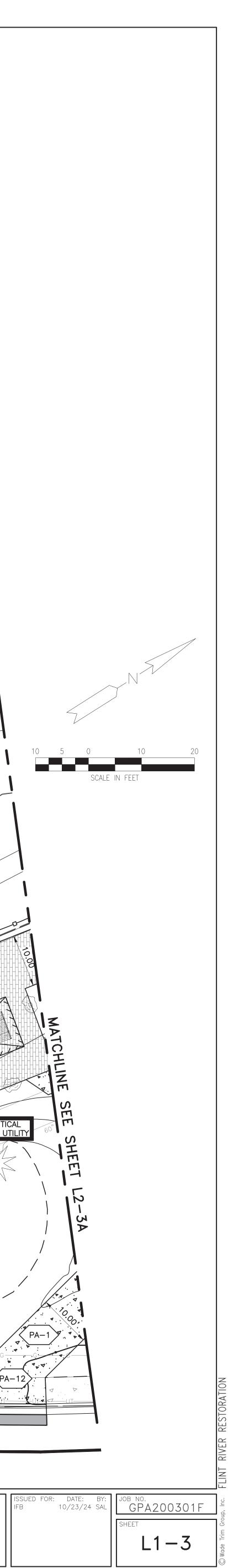


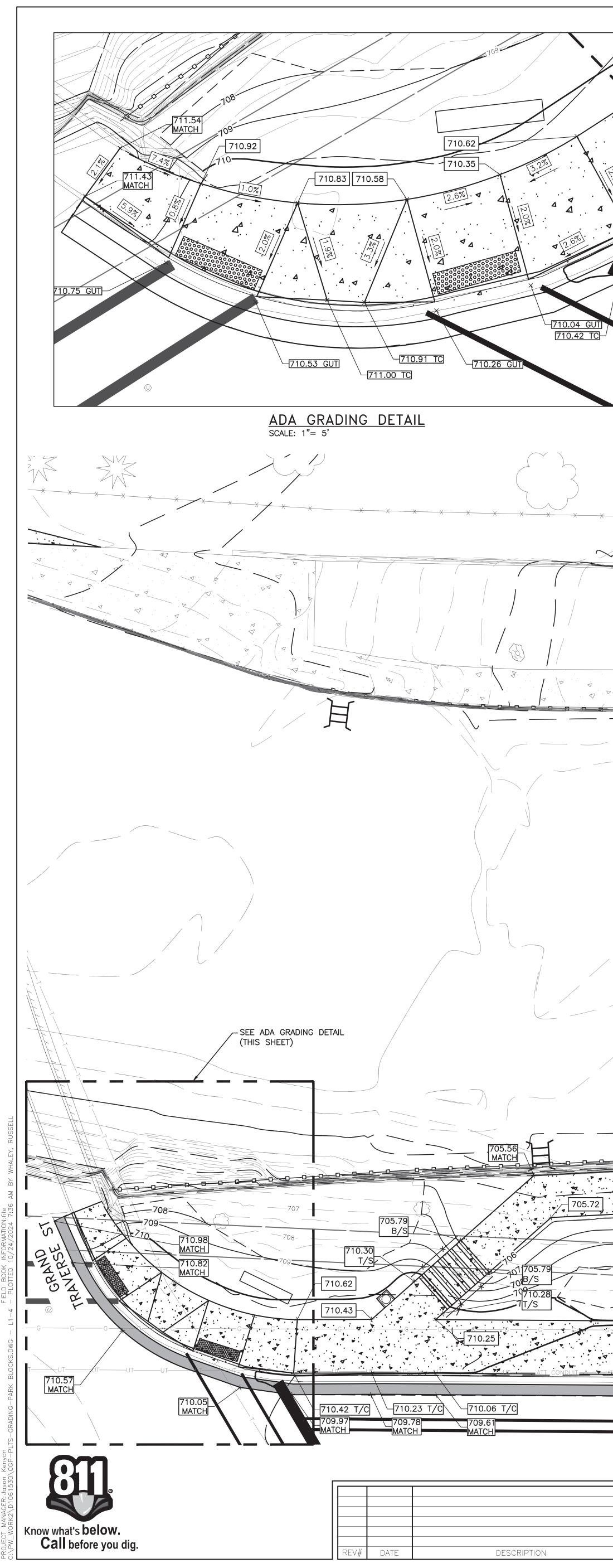
<u> EY NOTES – REMOVAL</u>	RPA-2 REMOVE STAIRS	RSF-5 REMOVE POS
	RPA-3 REMOVE PAVER	RSF-6 REMOVE GU
RCG – CURB AND GUTTER		
-1 REMOVE STANDARD CURB AND GUTTER	RPA-4 SAWCUT PAVING	RSF-7 REMOVE CH
	RPA-5 REMOVE ASPHALT	RSF-8 REMOVE RIV
RLS – LANDSCAPE		
	PRO – PROTECTION	RSW - SI
REMOVE TREE		SEE STRUCTURAL PLA
-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS	PRO-1 PLACE TREE PROTECTION FENCE	RSW-1 REMOVE RET
-3 REMOVE AND STOCKPILE TOPSOIL	PRO-2 PROTECT EXISTING FEATURE	RSW-2 REMOVE SEA
	RSF – SITE FEATURES	
RLP – LIGHTING AND POWER		RSW-3 CUT AND RE
-1 REMOVE LIGHT POLE	RSF-1 REMOVE BENCH OR TABLE	RSW-4 REMOVE PLA
	RSF-2 REMOVE RAILING	RSW-5 REMOVE CON
RPA – PAVING		SEE DETAIL
-1 REMOVE CONCRETE	RSF-3 REMOVE BOLLARD	



SF-10 RAILING	– TYPE B	8				
SF-11 EXISTING	G HANDRAIL — CLEANING A G	ND				
SF-12 USCG L	LIFE RING	7				
	SITE WALLS RUCTURAL PLANS FOR DET	AILS				
SW-1 RETAINII	NG WALL					
SW-2 SEAT W	/ALL					
SW-3 FLOOD	PROTECTION WALL					
SW-4 RAISED	PLANTER WALL					
	OPPING STONE WALL	<u>(1-5</u> )				
SW-6 CURB V	WALL					
A	SHOWN. CONTRACTOR S SEWER AT ALL TIMES D EXISTING 60" DIA SEWER CONSTRUCTION. NEW FO BE PLACED ABOVE EXIS RAMP OR STAIRS CAN CONTRACTOR MUST MAI	NOTES: CATION OF EXISTING 60" DIA SA SHALL PROTECT AND MONITOR DURING CONSTRUCTION. CCTV I R SHALL BE COMPLETED PRIOF OOTINGS, TREES, AND LIGHT P STING 60" DIA SEWER. NEW SID BE PLACED ABOVE EXISTING 6 INTAIN AT LEAST 3 FEET OF C R EXCEPT FOR LOCATIONS IND	EXISTING 60" DIA INSPECTION OF R AND AFTER POLES SHALL NOT DEWALK, WALK, 60" DIA SEWER. COVER ABOVE			
		- 12 IN. CULVER INV=692.79	21	D.R.		١
		1111=692.79				
				FAL-S		
			MO	PAVILION DRX 10X20 MONOSL DDEL: MO-1020-SW SEE DETAILS ON L2	LOPE V-XP	69 <sup>2</sup>
					#3	SF-9
			PA-1 ** 88 SF-4	11.16	PA-8 16.28 LS-1	SF-3 (2)
			SF-2 11.12	706		CAUTION – CRITIC
	SF-2	SF-2 8.00'	8.00'	707		
	3F-2 2 17.00'	8.00				
9- 3	60" ROP SS					
	#10800 RIM=709.32	7/115 8 7				
G - 5 - 6 - 6 - 6 - 7 - 6 - 7 - 6 - 7 - 6 - 7 - 7						
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FLINT RIVERFRONT RESTORATION - PHASE 2 PLAYGROUND BLOCK - SOUTH LAYOUT

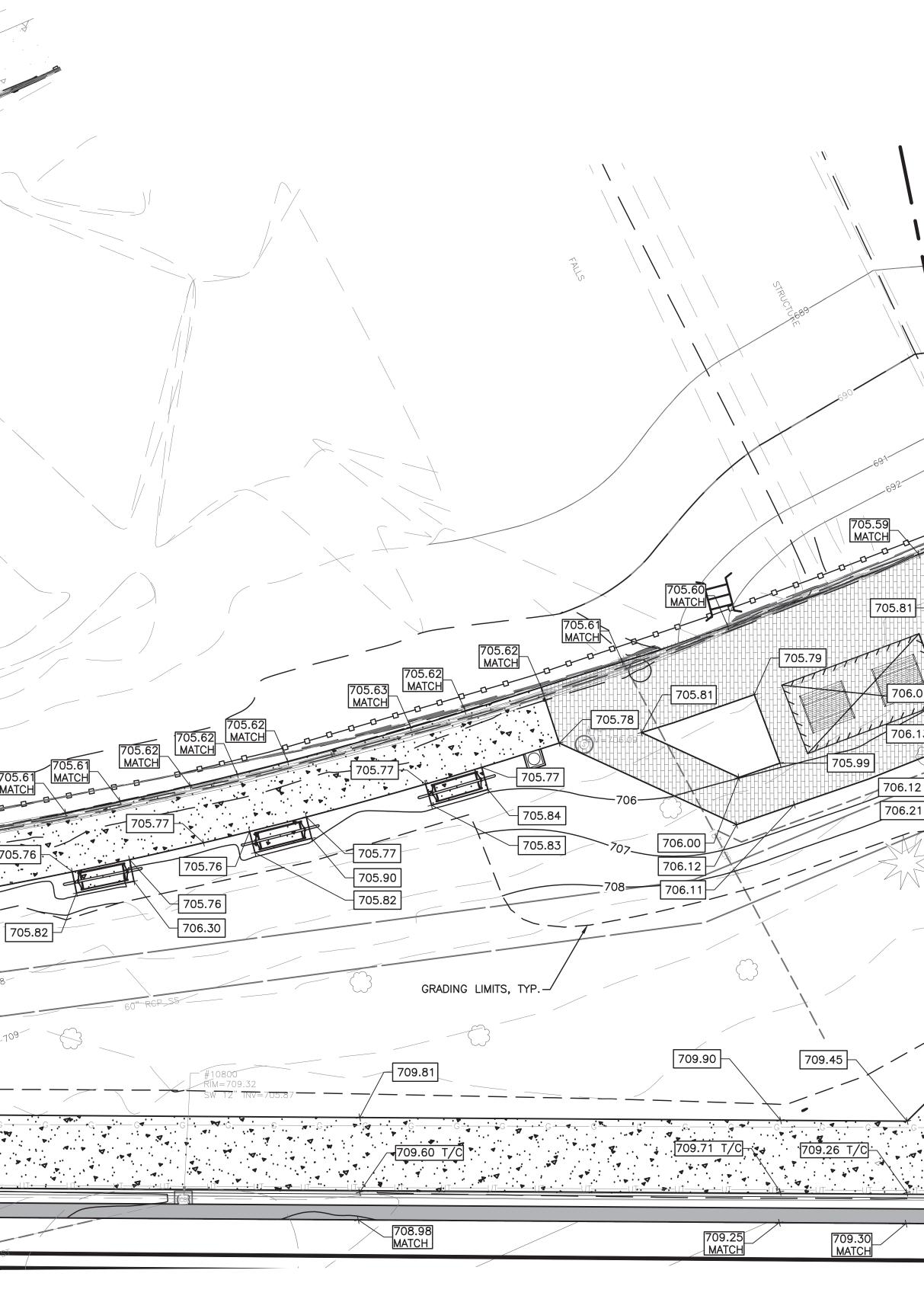


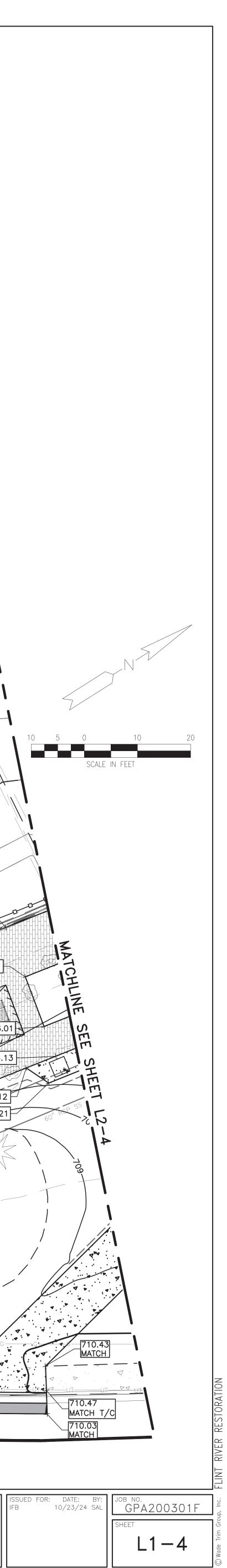


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	FLINT RIVER	
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705.57 MATCH		05.59 ATCH
705.73	706	705.75
NS-602           RIM=712.45           NE 60" INV=691.90           SE 21         NV=707.81           SW 60" INV=691.90		
708		<u>/ #10812</u> 70
710.01 710.08		#10812 RIM=709.74 NE 12" INV=705.19 NW 30" INV=699.94
G		
C EX GAS 4"-MD G G G G G G G G G G G G G G G G G G G		
709.35         #10819           MATCH         KEARSLEY ST         #10819           MATCH         709.49         709.44           MATCH         MATCH         MATCH		
		concrete Pipe st

RY	











$-G \xrightarrow{\neg \forall} EX GAS 4"-MD \xrightarrow{\neg G} G \xrightarrow{\neg \forall} G \xrightarrow{\neg \neg \forall} G \xrightarrow{\neg \neg \forall} G \xrightarrow{\neg \neg \neg \forall} G \neg \neg$		A A A A A A A A A A A A A A A A A A A	T10812 RIM=709.74 JE 12" INV=705.19 JW 30" INV=699.94
RIM	#10819 =709.49		
RSLEY ST			proved our arete Pipe
55 S. Saginaw Street, Suite 201	DE IM		SEE COUNT 5045 E. STA

RIM=712.45

NE 60" INV=691.90 SE 21" INV=707.81 SW 60" INV=691.90

555 S. Saginaw Street, Suite 201 Flint, MI 48502 810.235.2555 www.wadetrim.com

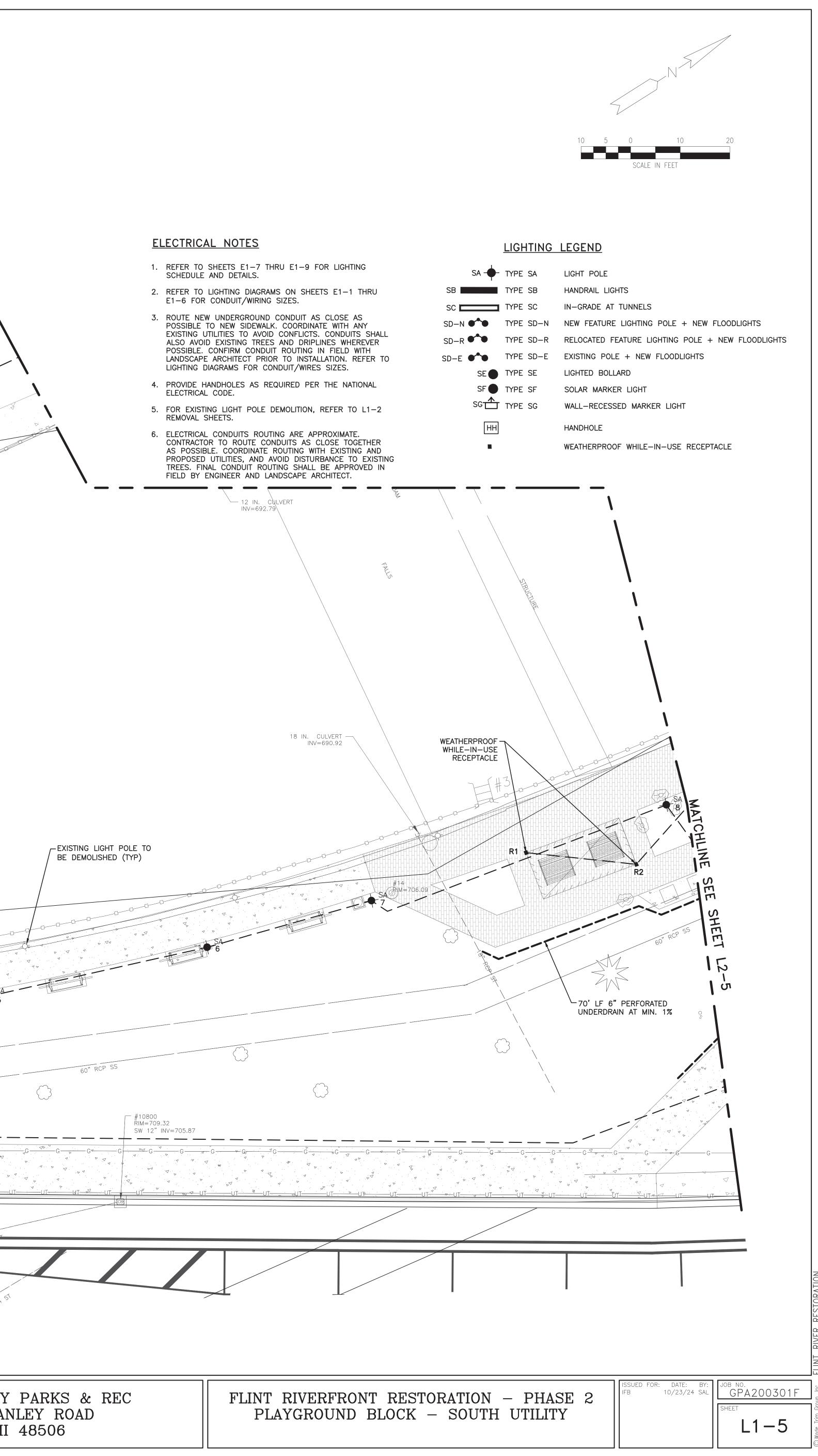
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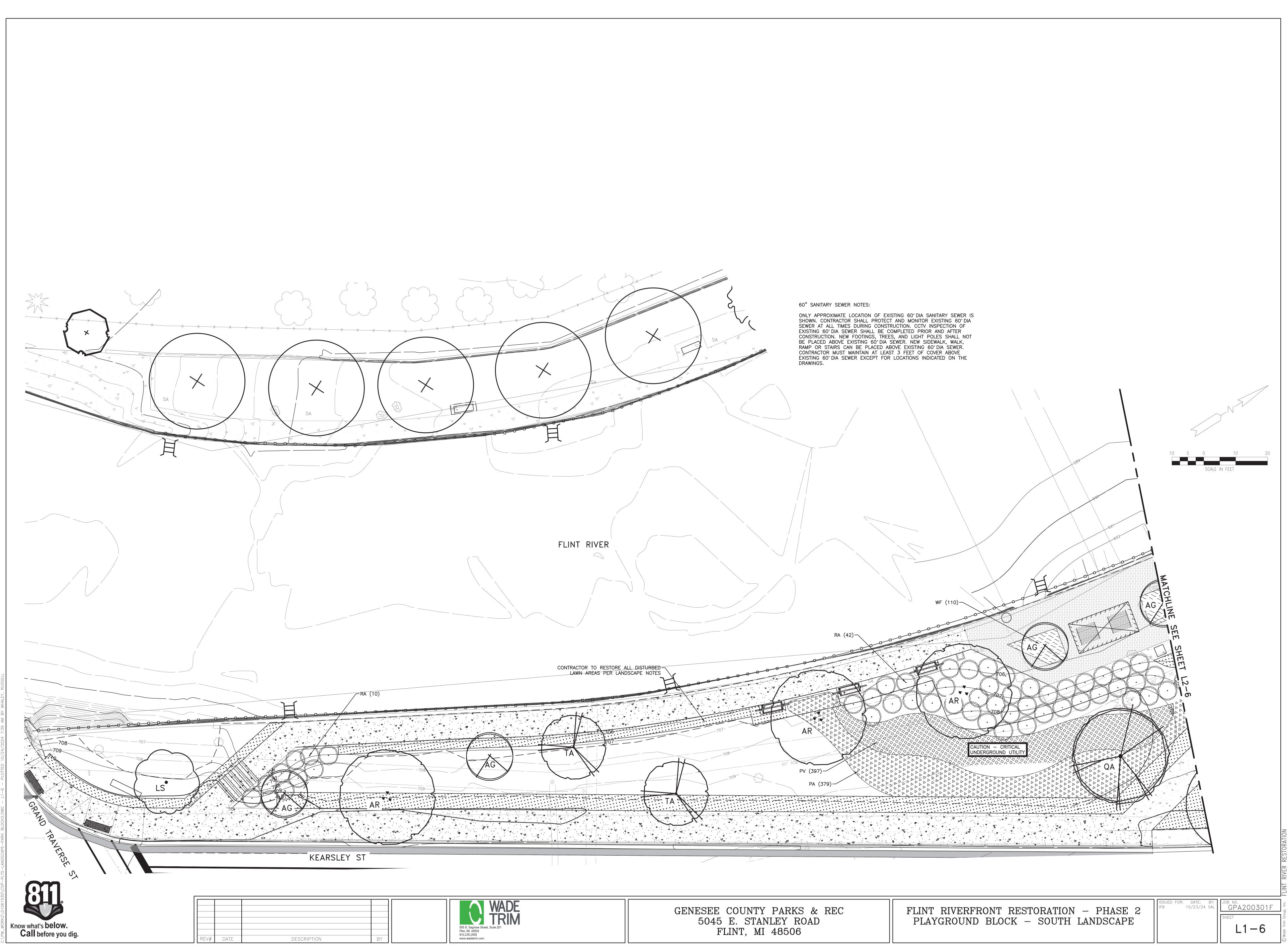
UNDERGROUND CONDUIT

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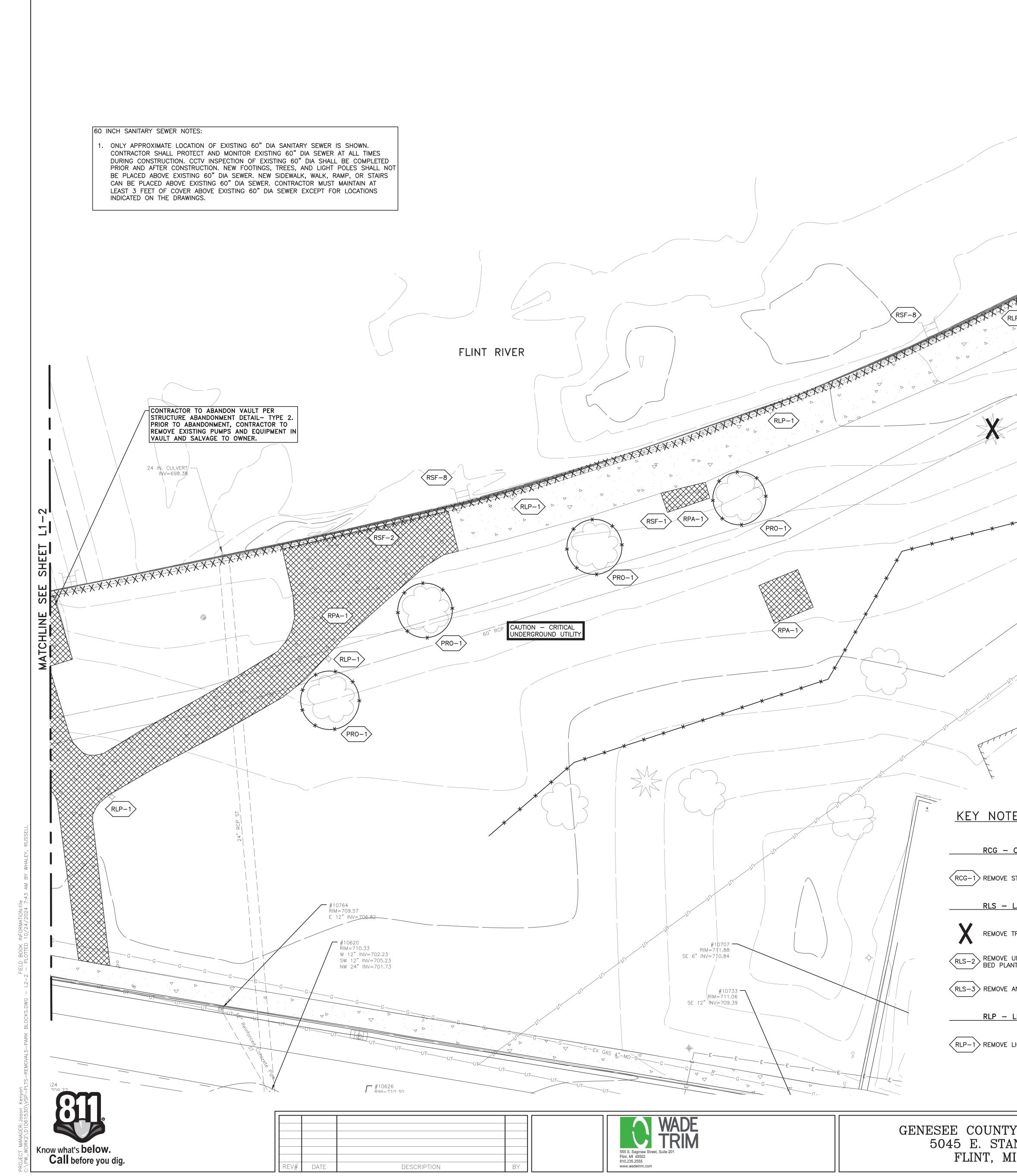
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FLINT RIVER





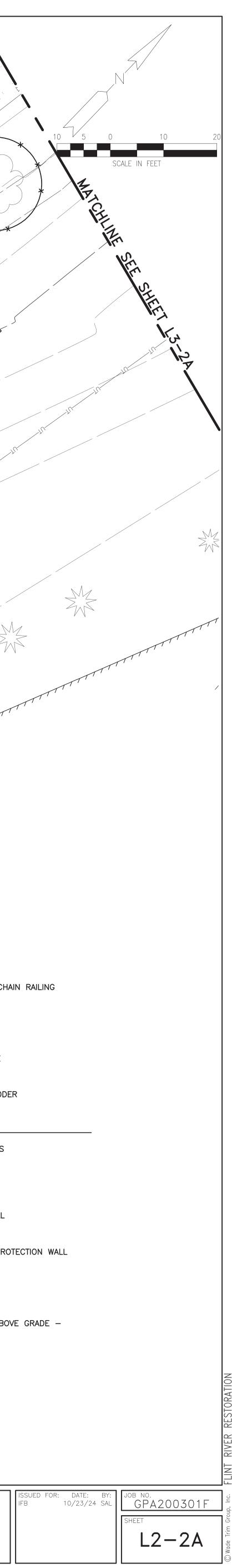


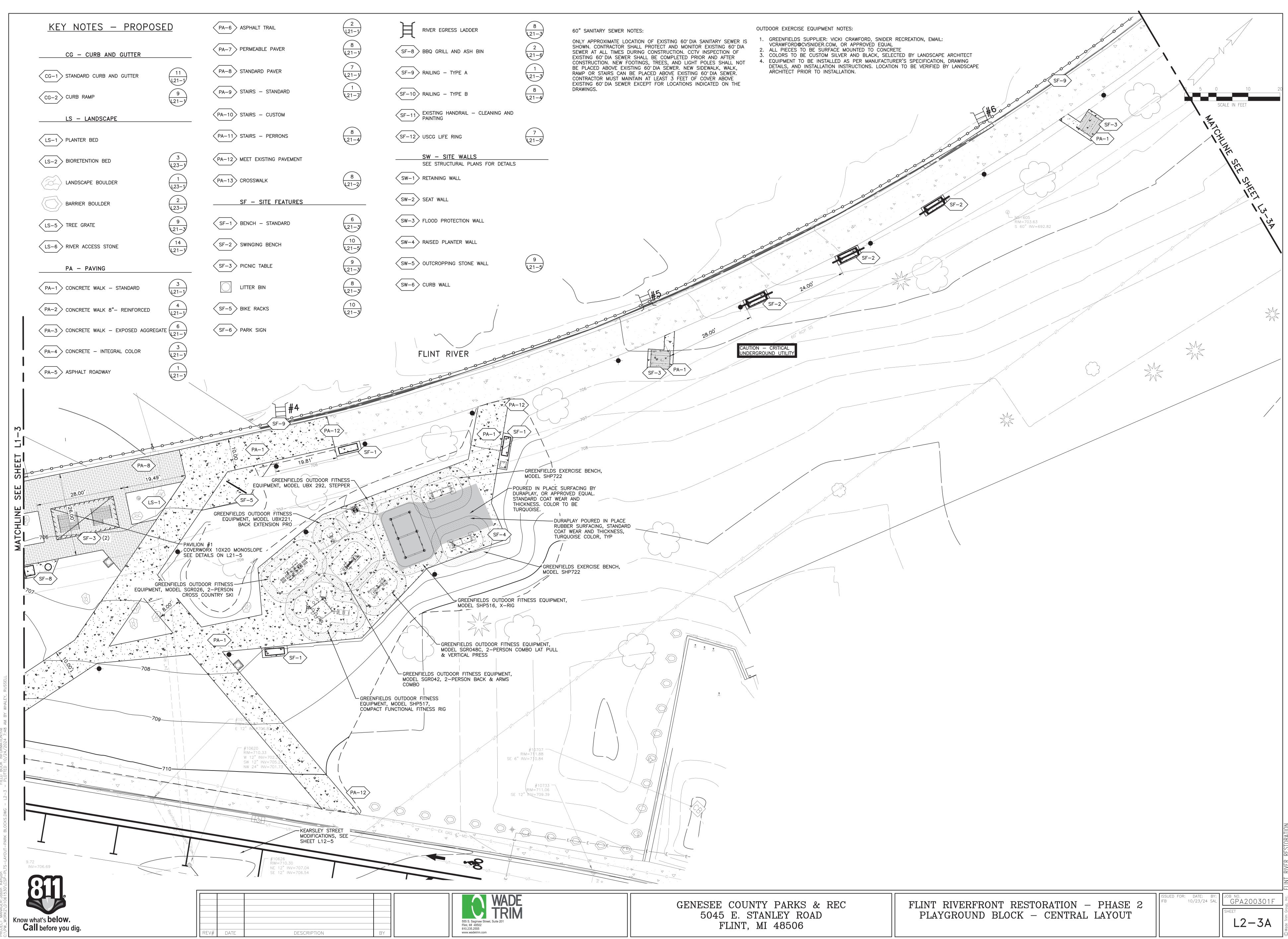


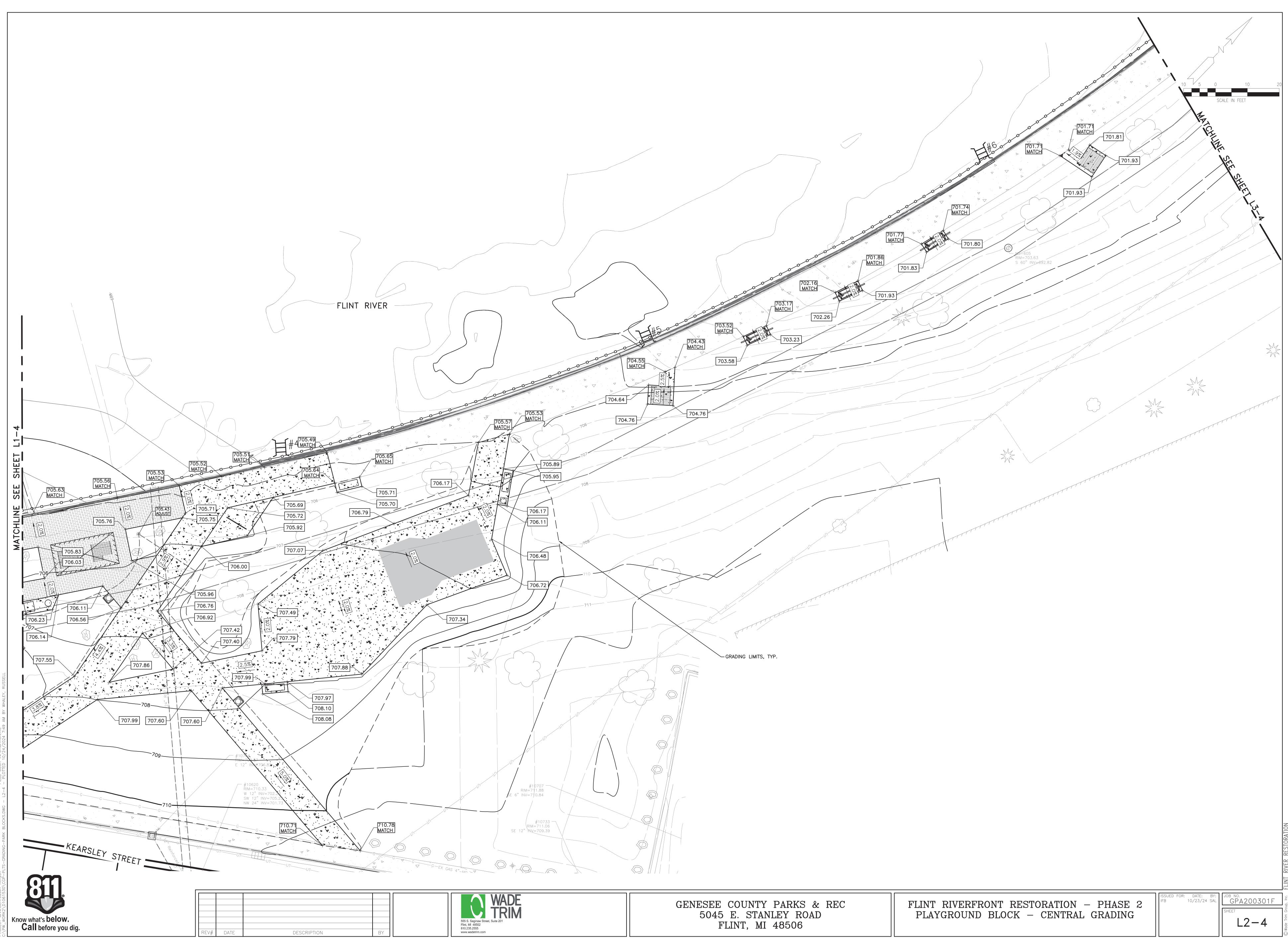
		$\boldsymbol{\Lambda}$
		A CONTRACT OF
		RLP-1
	RSF-8	
	RLP-1	
	RSF-1	RPA-1
		L NS-605 RIM=703.63 S 60" INV=692.82
	***	
RLP−1 × v		
	* PRO-1	
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60" RCP 55		
		In M
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* * * *	10	
PRO-1 *		
	*	
	RPA – PAVING	RSF-5 REMOVE POST AND ROPE/CHAI
	RPA-1 REMOVE CONCRETE	RSF-6 REMOVE GUARDRAIL
		RSF-6 REMOVE GUARDRAIL
	RPA-2 REMOVE STAIRS	RSF-7 REMOVE CHAIN LINK FENCE
	RPA-3 REMOVE PAVER	RSF-8 REMOVE RIVER EGRESS LADDER
<u>DTES – REMOVAL</u>		
- CURB AND GUTTER	RPA-4 SAWCUT PAVING	<u>RSW – SITE WALLS</u> SEE STRUCTURAL PLANS FOR DETAILS
	RPA-5 REMOVE ASPHALT	
VE STANDARD CURB AND GUTTER	PRO – PROTECTION	RSW-1 REMOVE RETAINING WALL
– LANDSCAPE		RSW-2 REMOVE SEAT OR SITE WALL
	PRO-1 PLACE TREE PROTECTION FENCE	RSW-3 CUT AND REMOVE FLOOD PROT
VE TREE	PRO-2 PROTECT EXISTING FEATURE	
VE UNDERSTORY VEGETATION/LANDSCAPE PLANTINGS	RSF – SITE FEATURES	RSW-4 REMOVE PLANTER WALL
WE AND STOCKPILE TOPSOIL		RSW-5 REMOVE CONCRETE WALL ABOVE SEE DETAIL 8 ON L22-4
	RSF-1 REMOVE BENCH OR TABLE	SEE DETAIL & UN L22-4
- LIGHTING AND POWER	RSF-2 REMOVE RAILING	
VE LIGHT POLE		
	RSF-3 REMOVE BOLLARD	
	RSF-4 REMOVE SIGN	

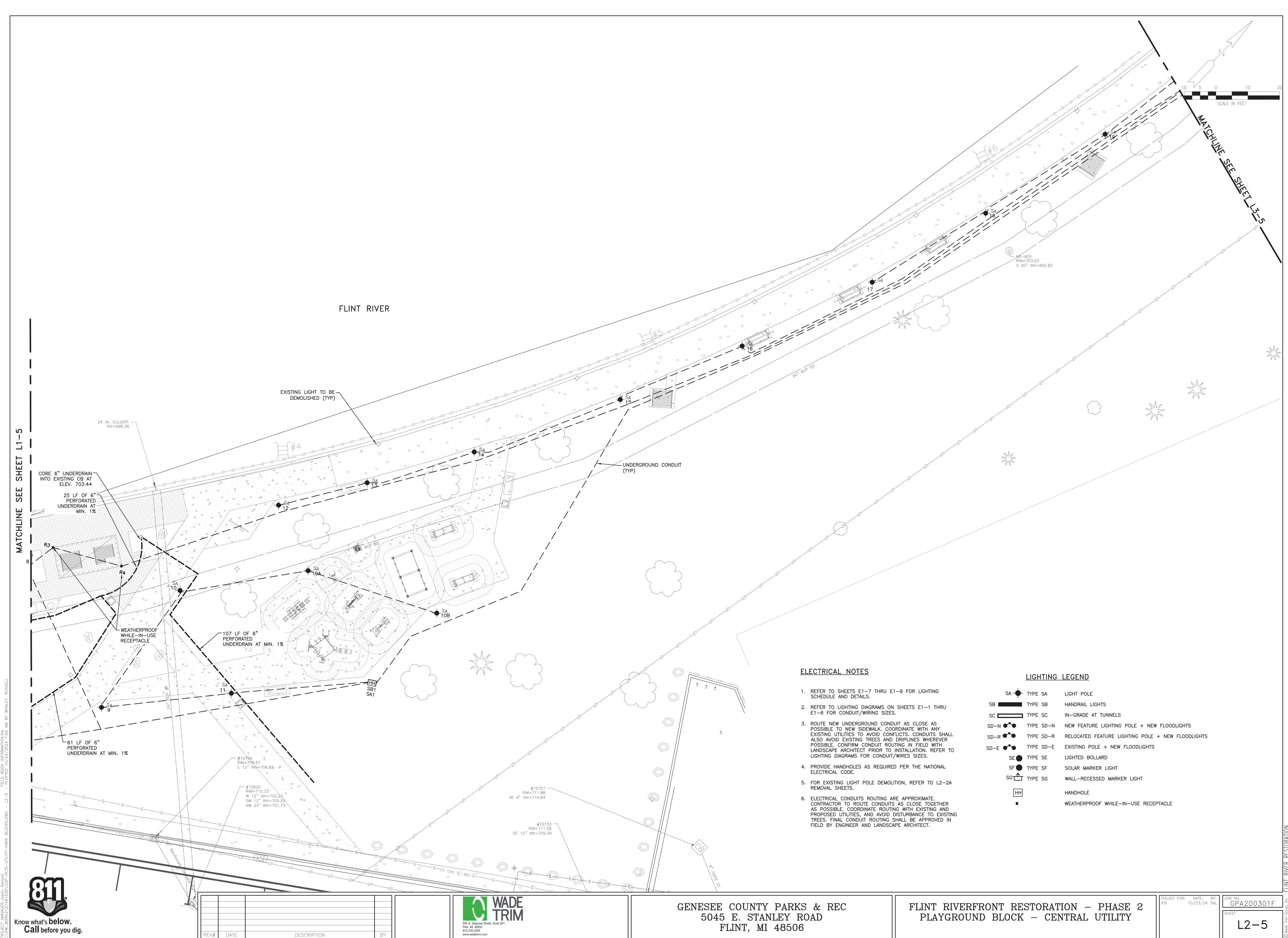
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AN	LEY RC	AD	
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FLINT RIVERFRONT RESTORATION - PHASE 2 PLAYGROUND BLOCK - CENTRAL REMOVAL



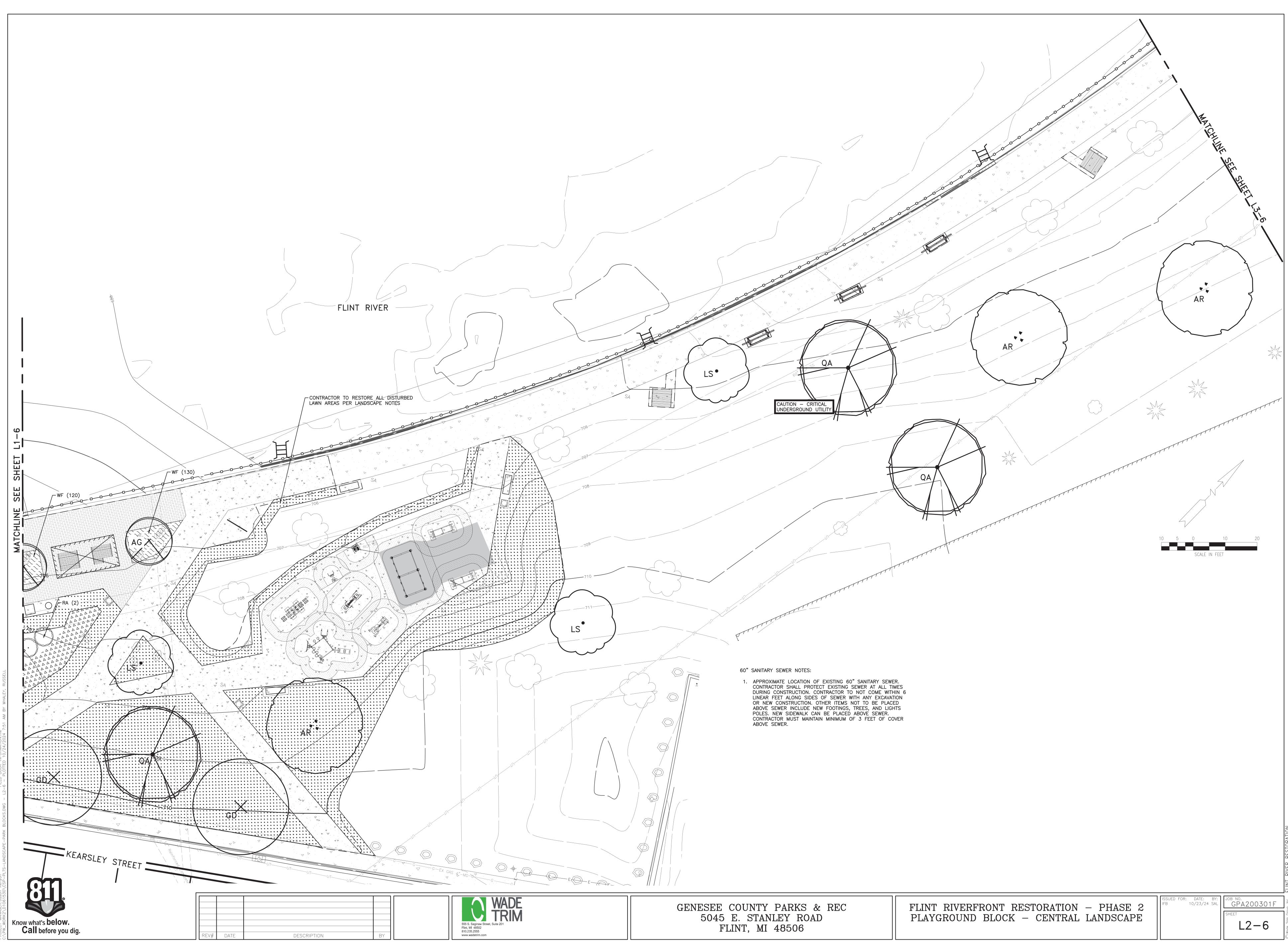






:	SA -	TYPE	SA
SB		TYPE	SB
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SD-R	<b>*•</b>	TYPE	SD-
SD-E	<b>*</b> •	TYPE	SD-I
	SE 🌑	TYPE	SE
	SF 🌑		
	SG	TYPE	SG
	HH		

LIGHT POLE
HANDRAIL LIGHTS
N-GRADE AT TUNNELS
NEW FEATURE LIGHTING POLE + NEV
RELOCATED FEATURE LIGHTING POLE
EXISTING POLE + NEW FLOODLIGHTS
LIGHTED BOLLARD
SOLAR MARKER LIGHT
WALL-RECESSED MARKER LIGHT
HANDHOLE



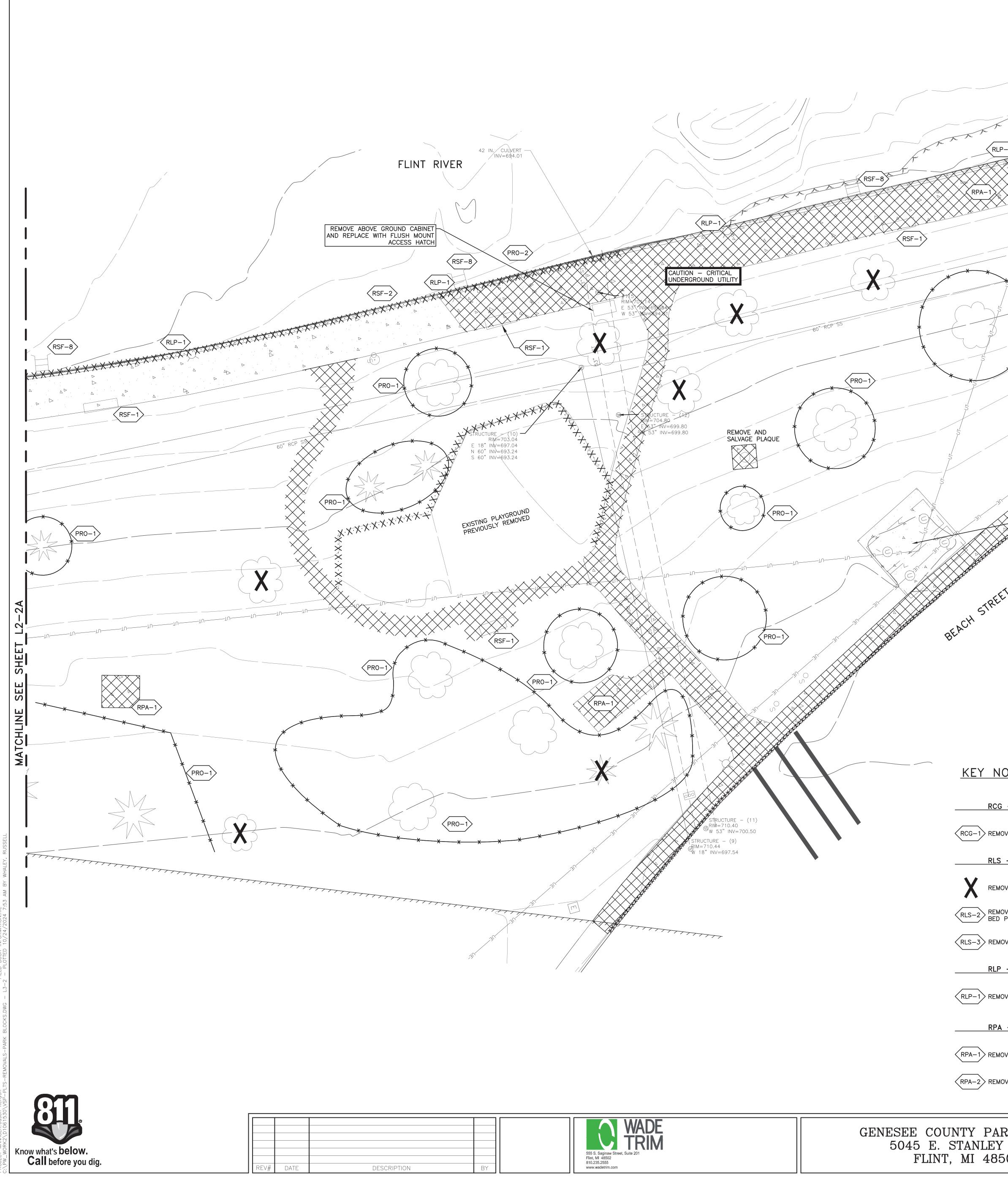




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Y	PAR	KS	&	REC
AN	LEY	RO	AD	
11	4850	06		

# FLINT RIVERFRONT RESTORATION - PHASE 2 PLAYGROUND BLOCK - NORTH REMOVAL

<u> Y NOTES – REMOVAL</u>	RPA-3 REMOVE PAVER	RSF-6 REMOVE GUA
RCG – CURB AND GUTTER	RPA-4 SAWCUT PAVING	RSF-7 REMOVE CHA
-1 REMOVE STANDARD CURB AND GUTTER	RPA-5 REMOVE ASPHALT	RSF-8 REMOVE RIVE
RLS – LANDSCAPE	PRO – PROTECTION	RSW - SI
REMOVE TREE	PRO-1 PLACE TREE PROTECTION FENCE	SEE STRUCTURAL PLAI
-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS	PRO-2 PROTECT EXISTING FEATURE	RSW-2 REMOVE SEA
-3 REMOVE AND STOCKPILE TOPSOIL	RSF – SITE FEATURES	RSW-3 CUT AND RE
RLP – LIGHTING AND POWER	RSF-1 REMOVE BENCH OR TABLE	RSW-4 REMOVE PLA
-1 REMOVE LIGHT POLE	RSF-2 REMOVE RAILING	RSW-5 REMOVE CON
RPA – PAVING	RSF-3 REMOVE BOLLARD	
-1 REMOVE CONCRETE	RSF-4 REMOVE SIGN	
-2 REMOVE STAIRS	RSF-5 REMOVE POST AND ROPE/CHAIN RAILING	

INDICATED ON THE DRAWINGS.

60 INCH SANITARY SEWER NOTES: . ONLY APPROXIMATE LOCATION OF EXISTING 60" DIA SANITARY SEWER I CONTRACTOR SHALL PROTECT AND MONITOR EXISTING 60" DIA SEWER DURING CONSTRUCTION. CCTV INSPECTION OF EXISTING 60" DIA SHALL PRIOR AND AFTER CONSTRUCTION. NEW FOOTINGS, TREES, AND LIGHT P BE PLACED ABOVE EXISTING 60" DIA SEWER. NEW SIDEWALK, WALK, RAI CAN BE PLACED ABOVE EXISTING 60" DIA SEWER. CONTRACTOR MUST I LEAST 3 FEET OF COVER ABOVE EXISTING 60" DIA SEWER EXCEPT FOR

PRO-

PROTECT EXISTING UTILITY VAULT

AAAAAAA

(RSF-8

PR0-2

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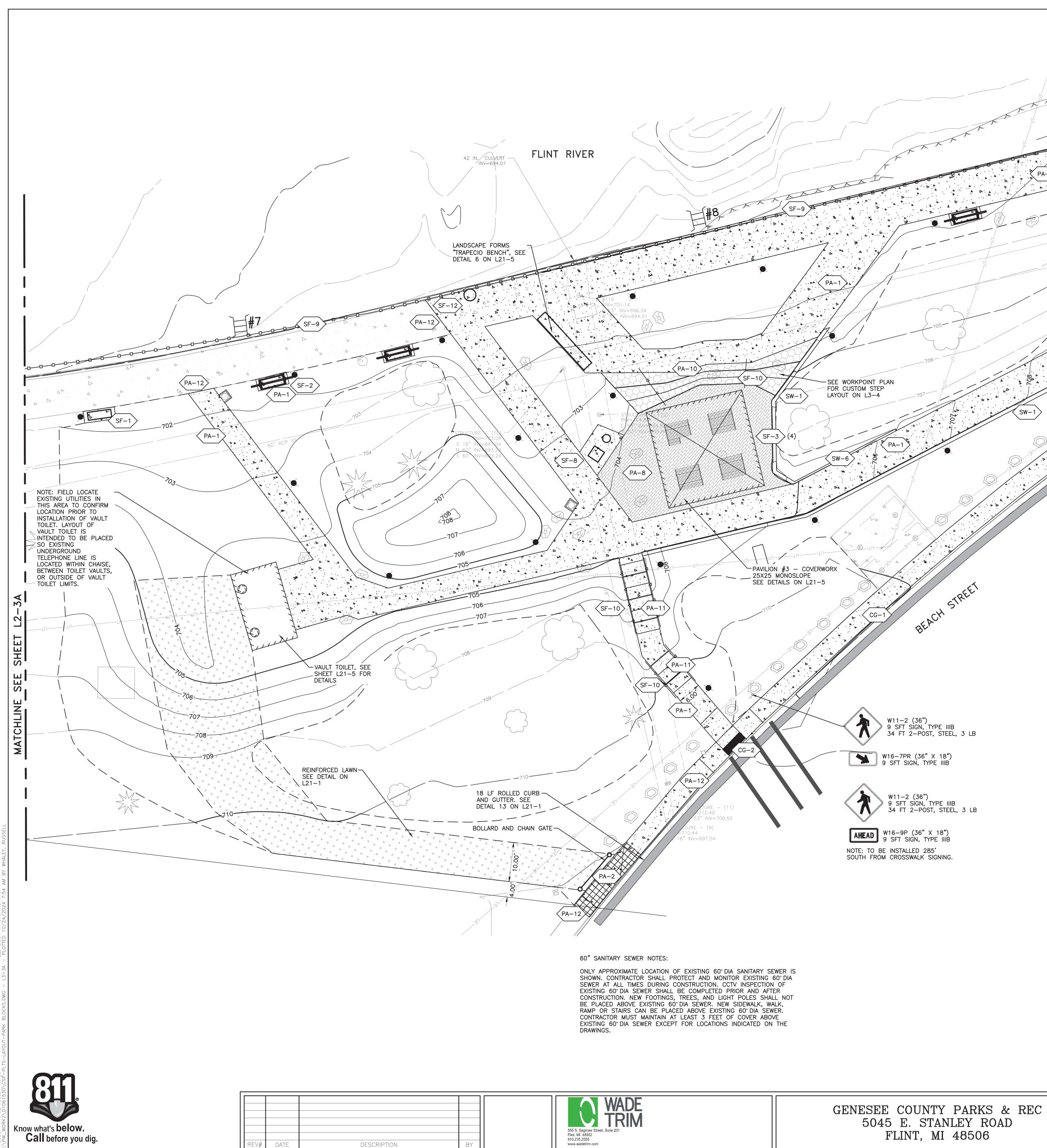
 $\langle RSF-4 \rangle$ 

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RSF-2

RSF-

RSF-2 HX PROTECT EXISTING BRIDGE AND POUNDATION RSW-1 HUCULES IN BRIDGE AND POUNDATION RSW-1 HUCULES IN BRIDGE AND RSW-1 HUCULES IN BRIDGE AND
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FOUNDATION         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ         μ <th< th=""></th<>
RSW-1     A     A     B     A     B       RSW-1     A     A     B     A     B       RSW-1     A     A     B     A     B       RSW-1     A     B     A     B     B       RSW-1     A     B     A     B     B       RSW-1     A     B     B     B     B       RSW-1     A     B     B     B     B       RSW-1     B     B     B     B </th
RSW-1 KIME TO STRUCTURE (1) RIME TO 0.02 RIME TO 0.02
RSW-1 RIMS710.02 F 60" HV = 693.92 S 40" INV = 693.92 C 7 INV
RSW-1 RIME STRUCTURE (1) RIME T10.02 RIME
Correction of the formation of the form
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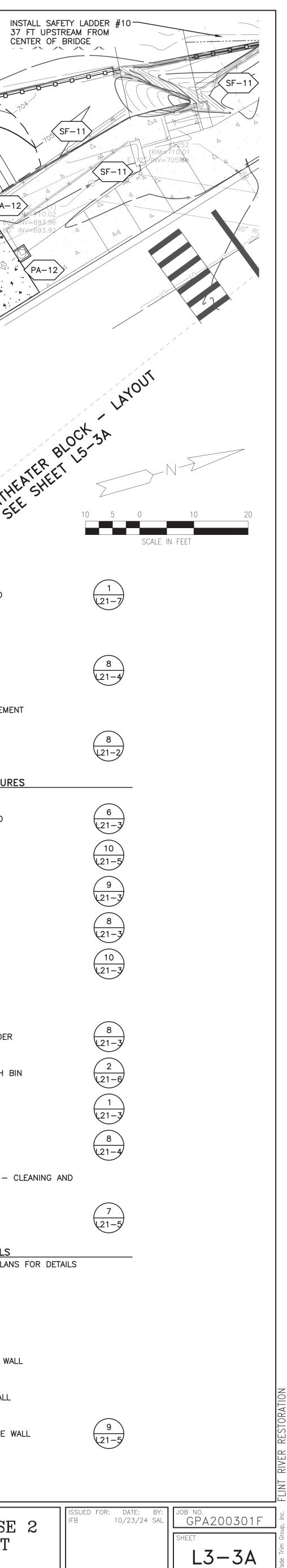


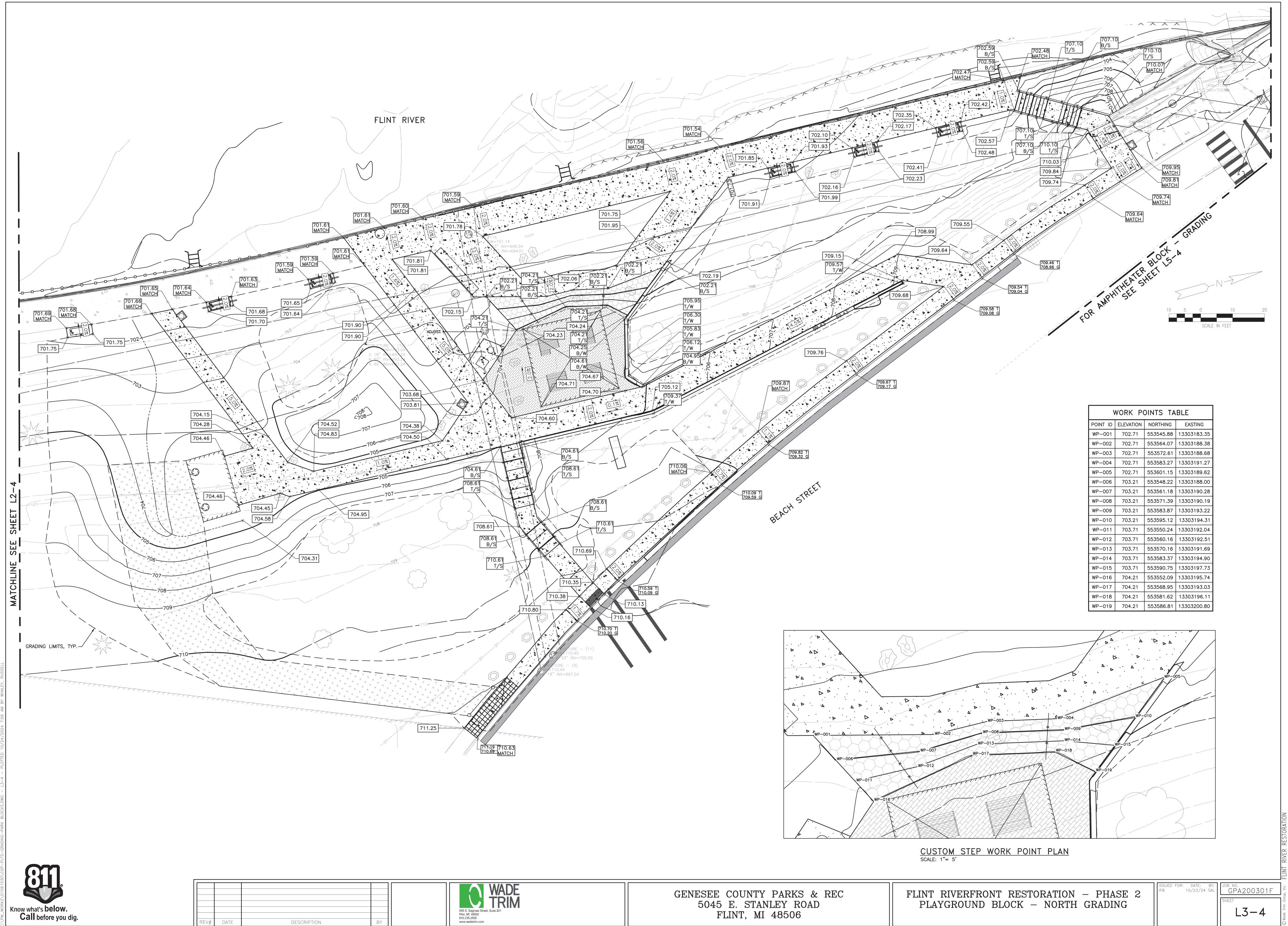
DESCRIPTION

	PA-9	6.00	
			PA-12 E (1) - PA-12
PA-1			PA-1 8.00 11/2 693.9
SF-2		<u>_</u> ]	
		SF-6	
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			CR A
			HEASHEE
			FOR AMPHISEE SHEET
			OR AM
			<b>Ç</b> U.
SW-1			
		PA-9	STAIRS – STANDARD
		PA-10	STAIRS - CUSTOM
		PA-11	STAIRS – PERRONS
		PA-12	MEET EXISTING PAVEMENT
		PA-13	CROSSWALK
<u>KEY NOTES – PROPOSE</u>	D		SF – SITE FEATURES
<u> </u>		SF-1	BENCH – STANDARD
CG-1 STANDARD CURB AND GUTTER	$\underbrace{11}_{\lfloor 21-1}$	SF-2	SWINGING BENCH
CG-2 CURB RAMP	9 121-1	SF-3	PICNIC TABLE
LS – LANDSCAPE		$\bigcirc$	LITTER BIN
LS-1 PLANTER BED		SF-5	BIKE RACKS
LS-2 BIORETENTION BED	3	SF-6	PARK SIGN
LANDSCAPE BOULDER	1 L23-1	Ħ	RIVER EGRESS LADDER
BARRIER BOULDER	2	SF-8	BBQ GRILL AND ASH BIN
LS-5 TREE GRATE	9	SF-9	RAILING – TYPE A
LS-6 RIVER ACCESS STONE	(14) (21-1)	SF-10	RAILING – TYPE B
PA – PAVING		SF-11	EXISTING HANDRAIL – CLEANING AND PAINTING
PA-1 CONCRETE WALK - STANDARD	3 L21-1	SF-12	USCG LIFE RING
PA-2 CONCRETE WALK 8"- REINFORCED	4 1_21-1		SW – SITE WALLS SEE STRUCTURAL PLANS FOR DETAIL
PA-3 CONCRETE WALK - EXPOSED AGGREGATE		SW-1	RETAINING WALL
PA-4 CONCRETE - INTEGRAL COLOR	3 121-1	SW-2	SEAT WALL
PA-5 ASPHALT ROADWAY	$ \begin{array}{c} 1 \\ 1 \\ 1 \\ 21 \\ -1 \end{array} $	SW-3	FLOOD PROTECTION WALL
PA-6 ASPHALT TRAIL	2 L21-1	SW-4	RAISED PLANTER WALL
PA-7 PERMEABLE PAVER	8	SW-5	OUTCROPPING STONE WALL
PA-8 STANDARD PAVER	7 121-1	SW-6	CURB WALL

XXXX.

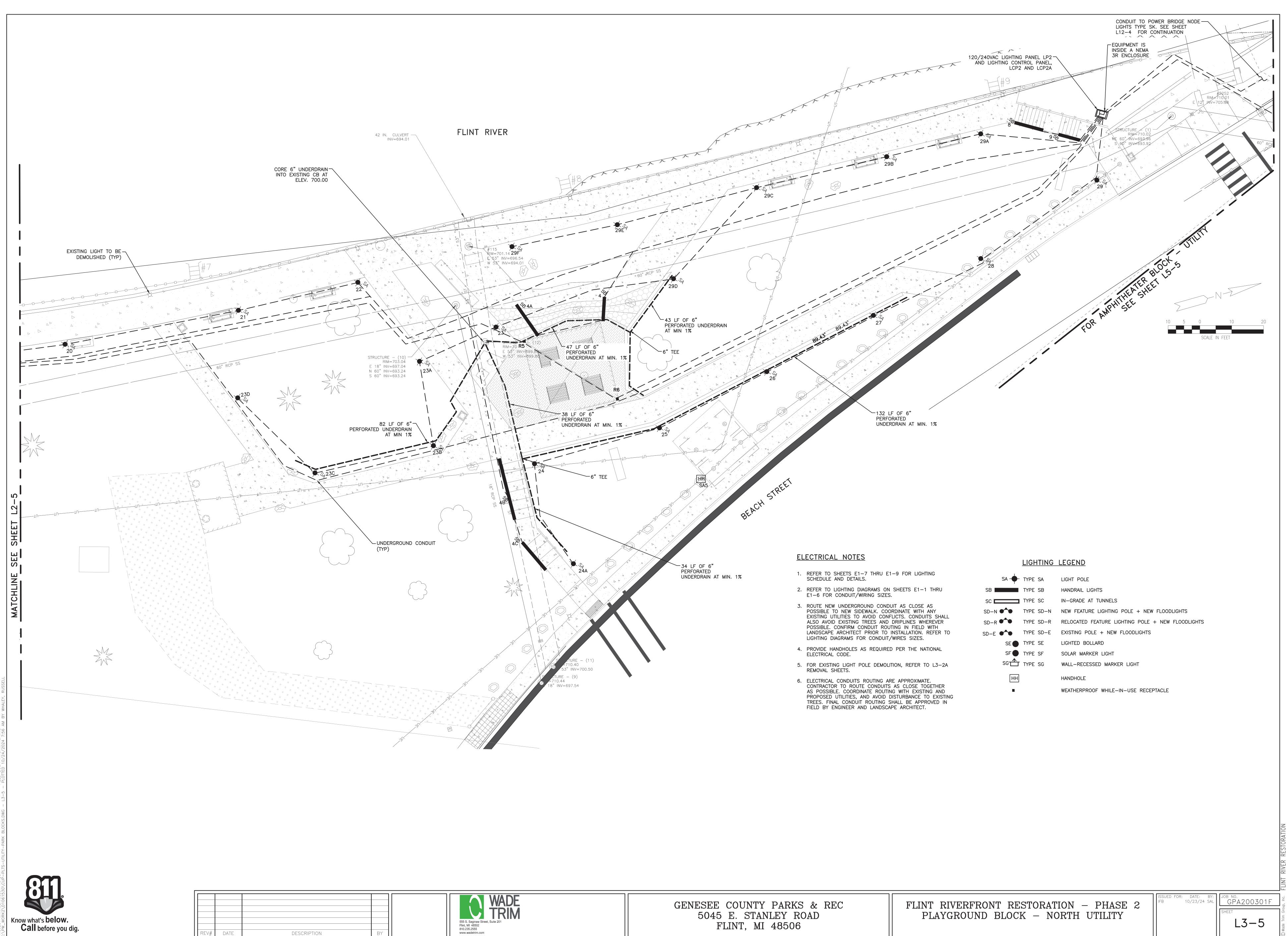
# FLINT RIVERFRONT RESTORATION - PHASE 2 PLAYGROUND BLOCK - NORTH LAYOUT



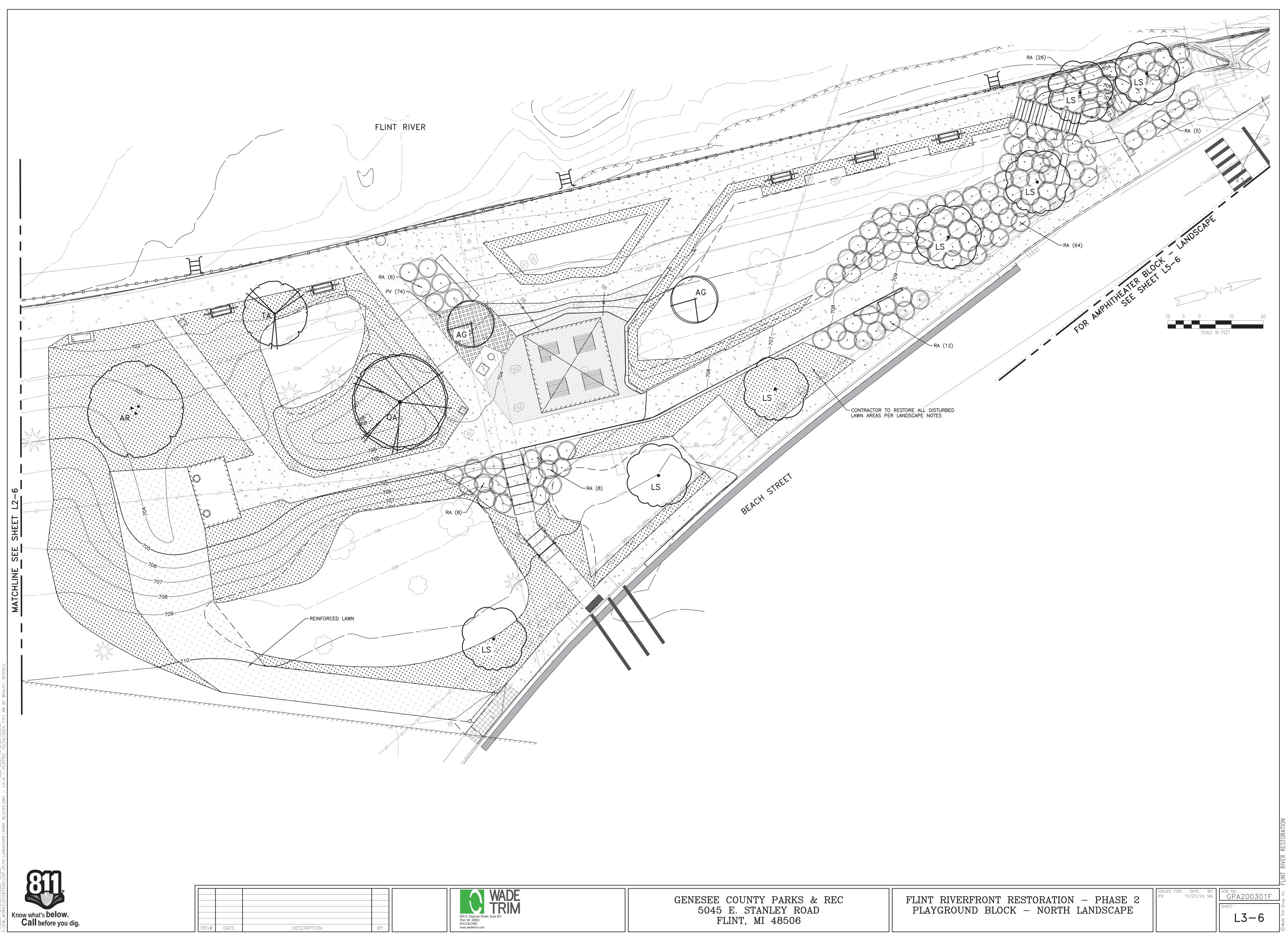


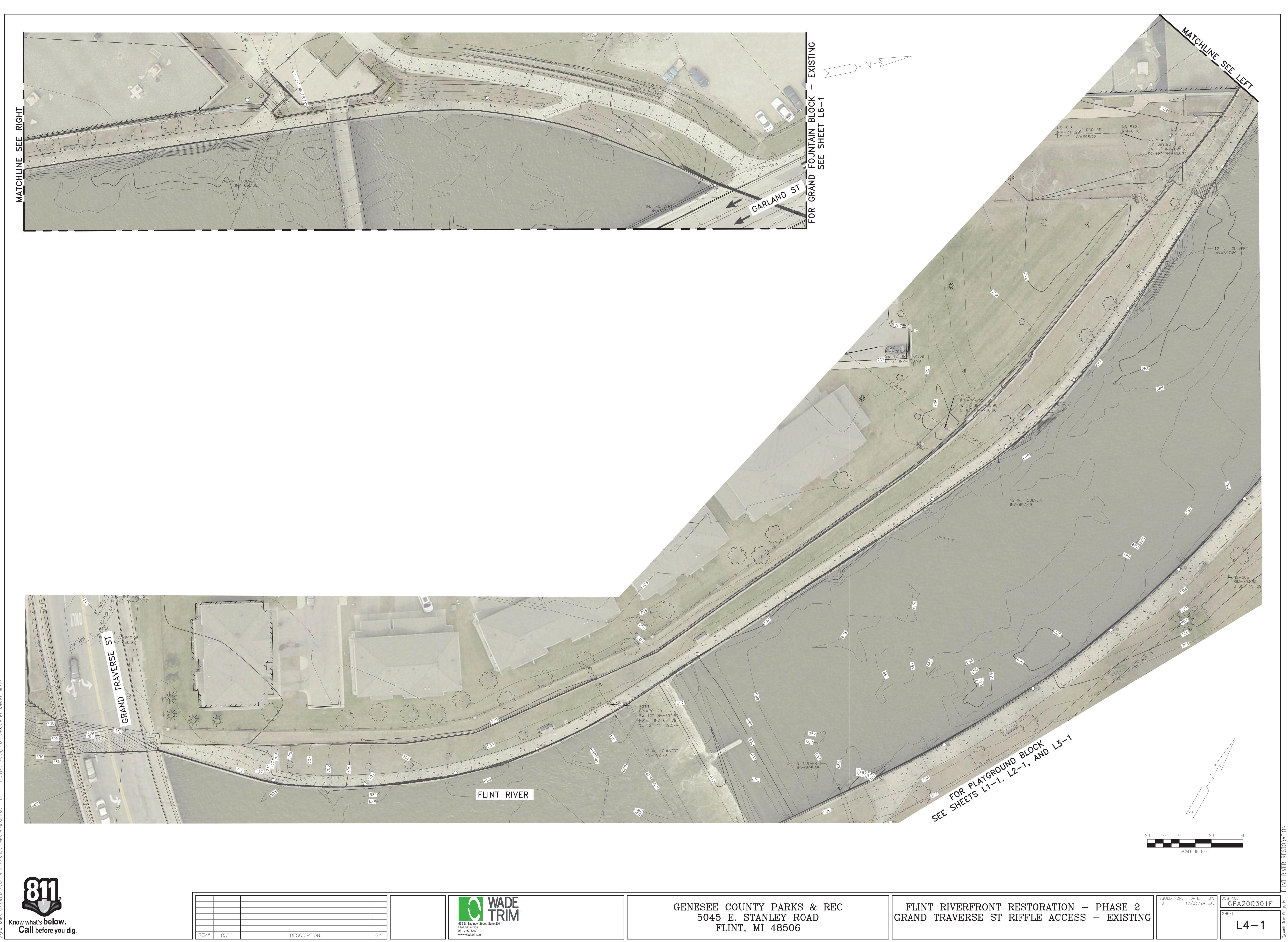
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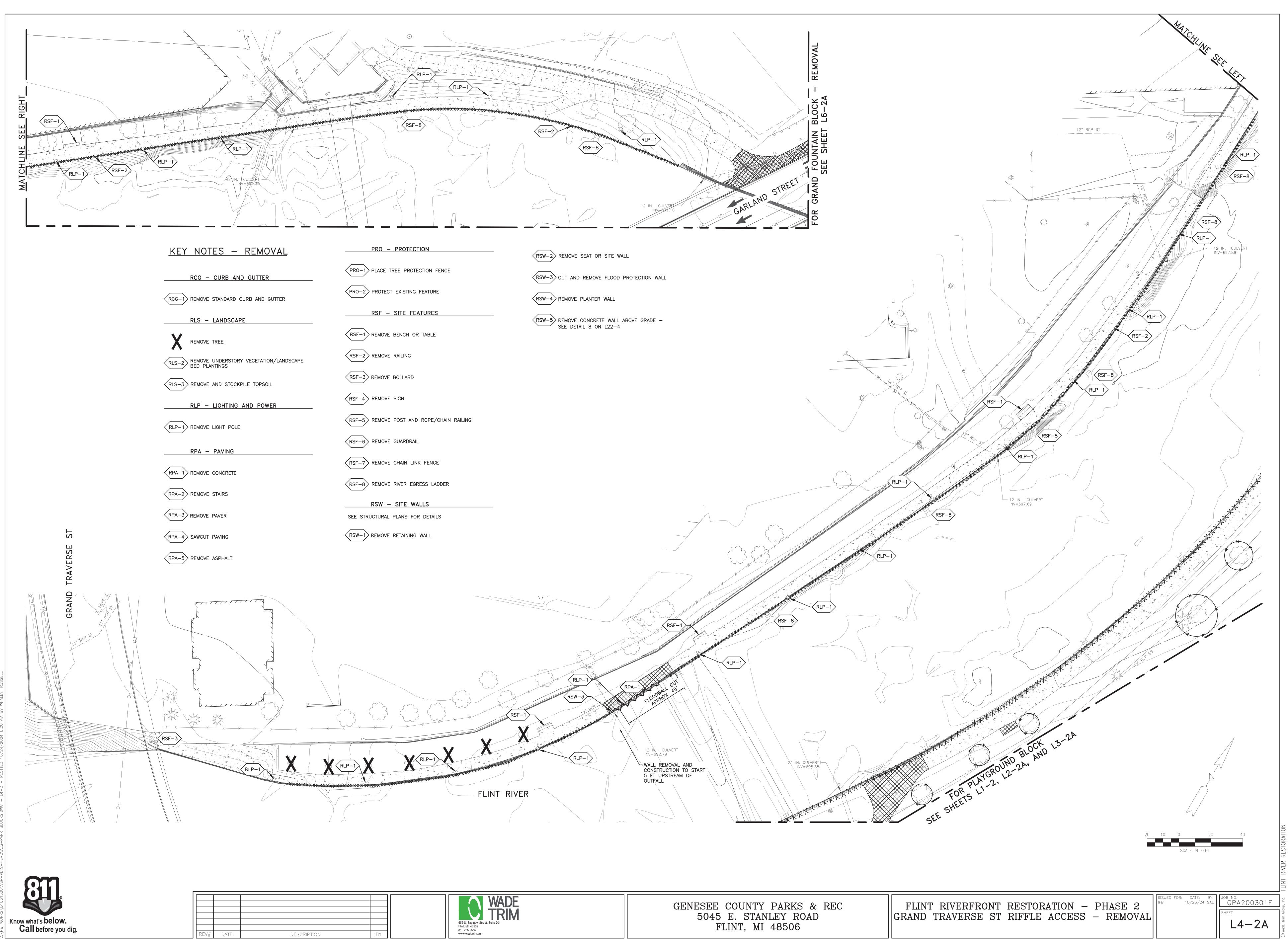
TS TA	BLE
RTHING	EASTING
545.88	13303183.35
564.07	13303188.38
3572.61	13303188.68
583.27	13303191.27
601.15	13303189.62
548.22	13303188.00
561.18	13303190.28
571.39	13303190.19
583.87	13303193.22
595.12	13303194.31
550.24	13303192.04
560.16	13303192.51
570.16	13303191.69
583.37	13303194.90
590.75	13303197.73
552.09	13303195.74
568.95	13303193.03
581.62	13303196.11
586.81	13303200.80

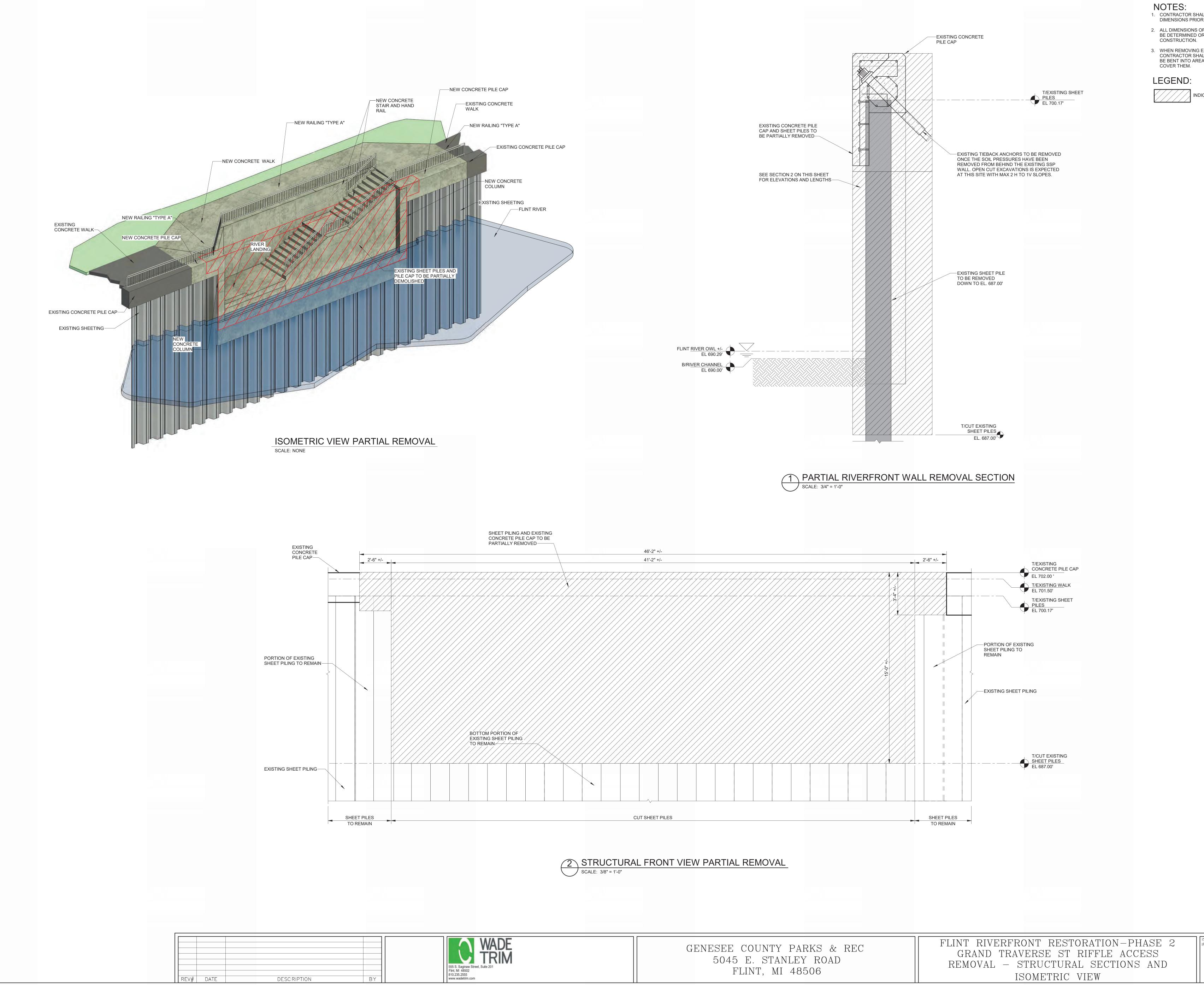


SA -	TYPE SA	LIGHT POLE
SB	TYPE SB	HANDRAIL LIGHTS
SC	TYPE SC	IN-GRADE AT TUNNELS
SD-N	TYPE SD-N	NEW FEATURE LIGHTING POLE + NEW I
SD-R	TYPE SD-R	RELOCATED FEATURE LIGHTING POLE +
SD-E 🔷	TYPE SD-E	EXISTING POLE + NEW FLOODLIGHTS
SE 🔴	TYPE SE	LIGHTED BOLLARD
SF 🌑	TYPE SF	SOLAR MARKER LIGHT
SG 📩	TYPE SG	WALL-RECESSED MARKER LIGHT
НН		HANDHOLE
		WEATHERPROOF WHILE-IN-USE RECEPT



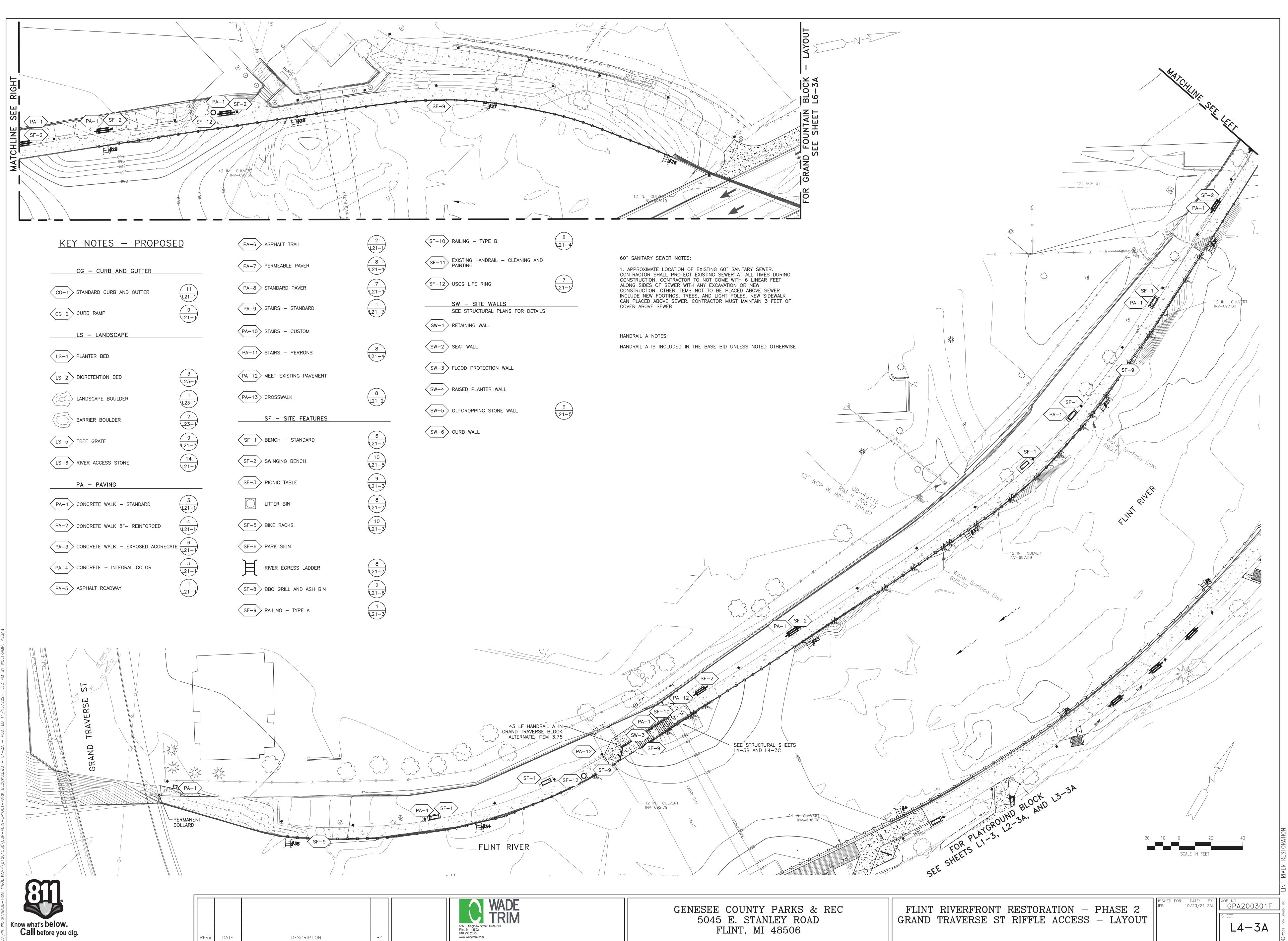


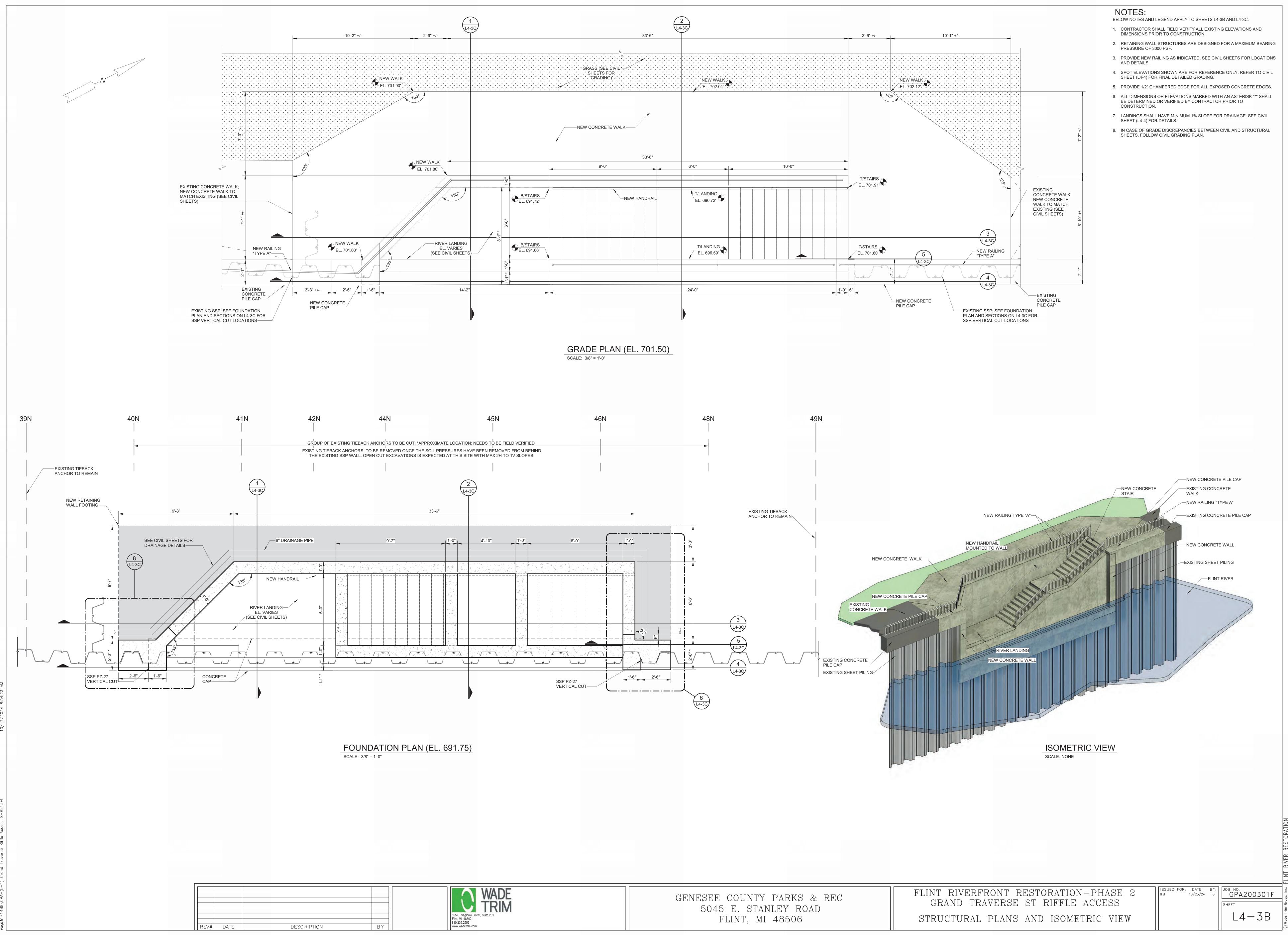


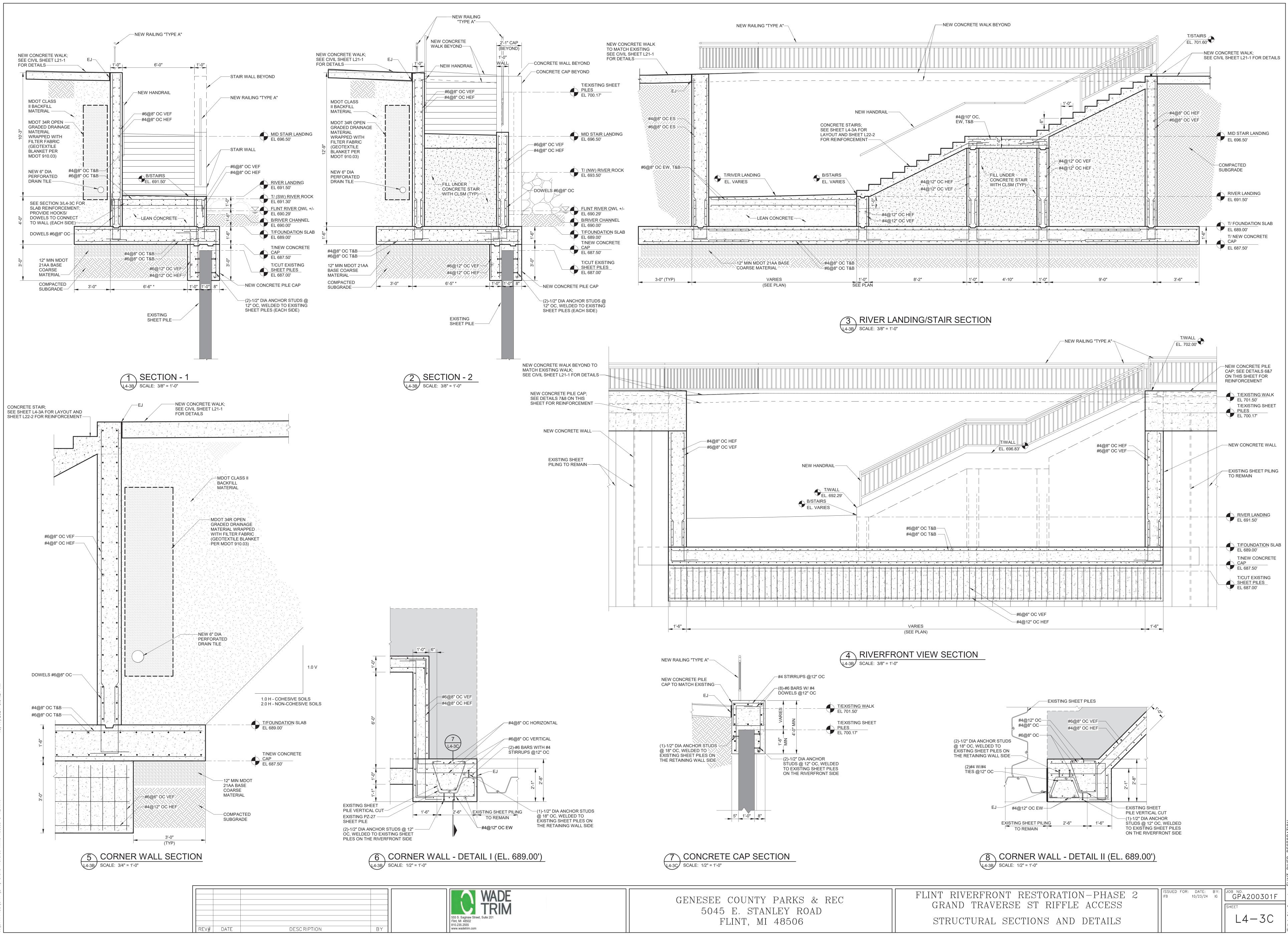


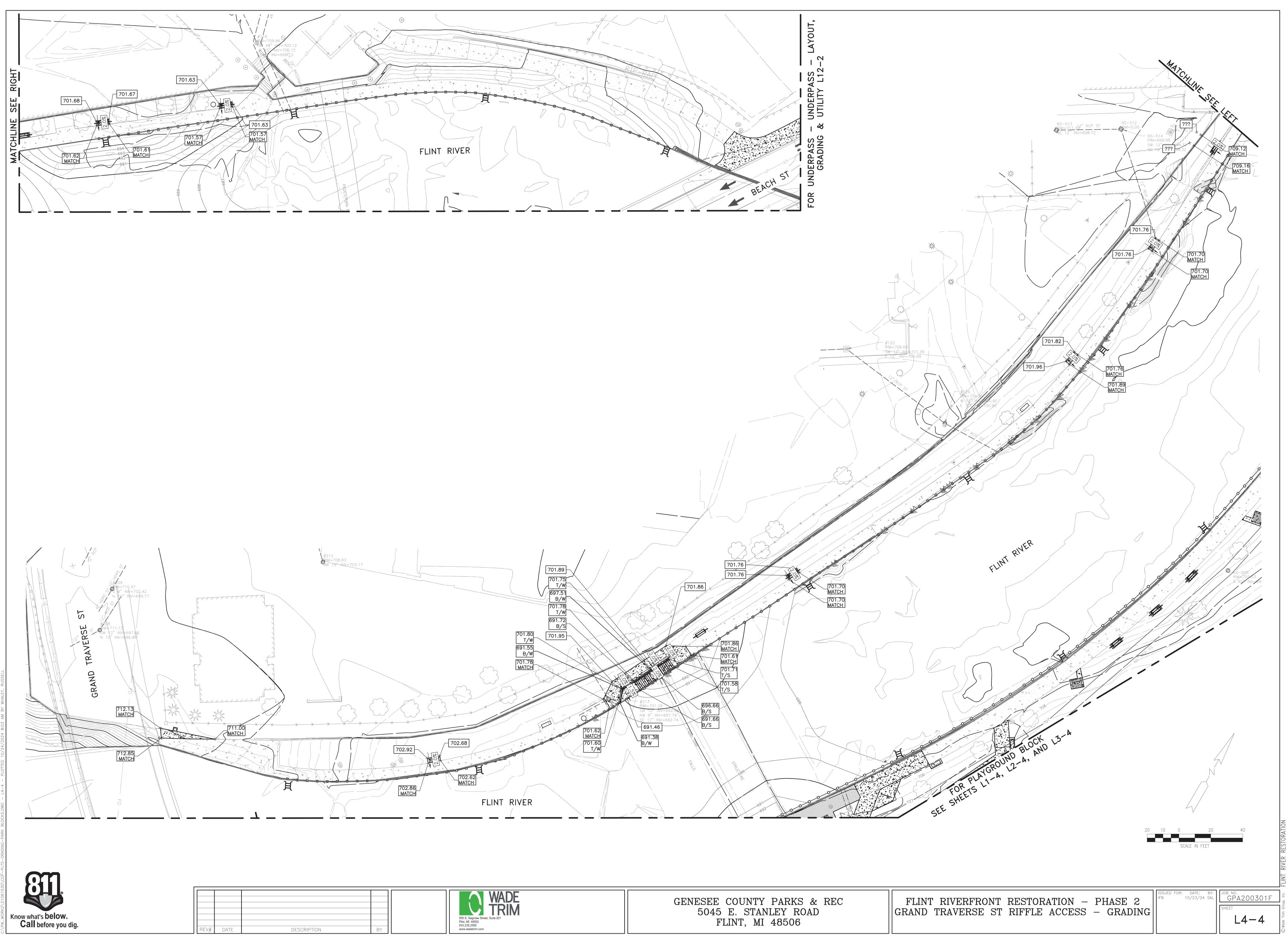
TY PARKS & REC Fanley Road MI 48506	FLINT RIVERFRONT RESTORATION-PHASE 2
	GRAND TRAVERSE ST RIFFLE ACCESS
	REMOVAL - STRUCTURAL SECTIONS AND
	ISOMETRIC VIEW

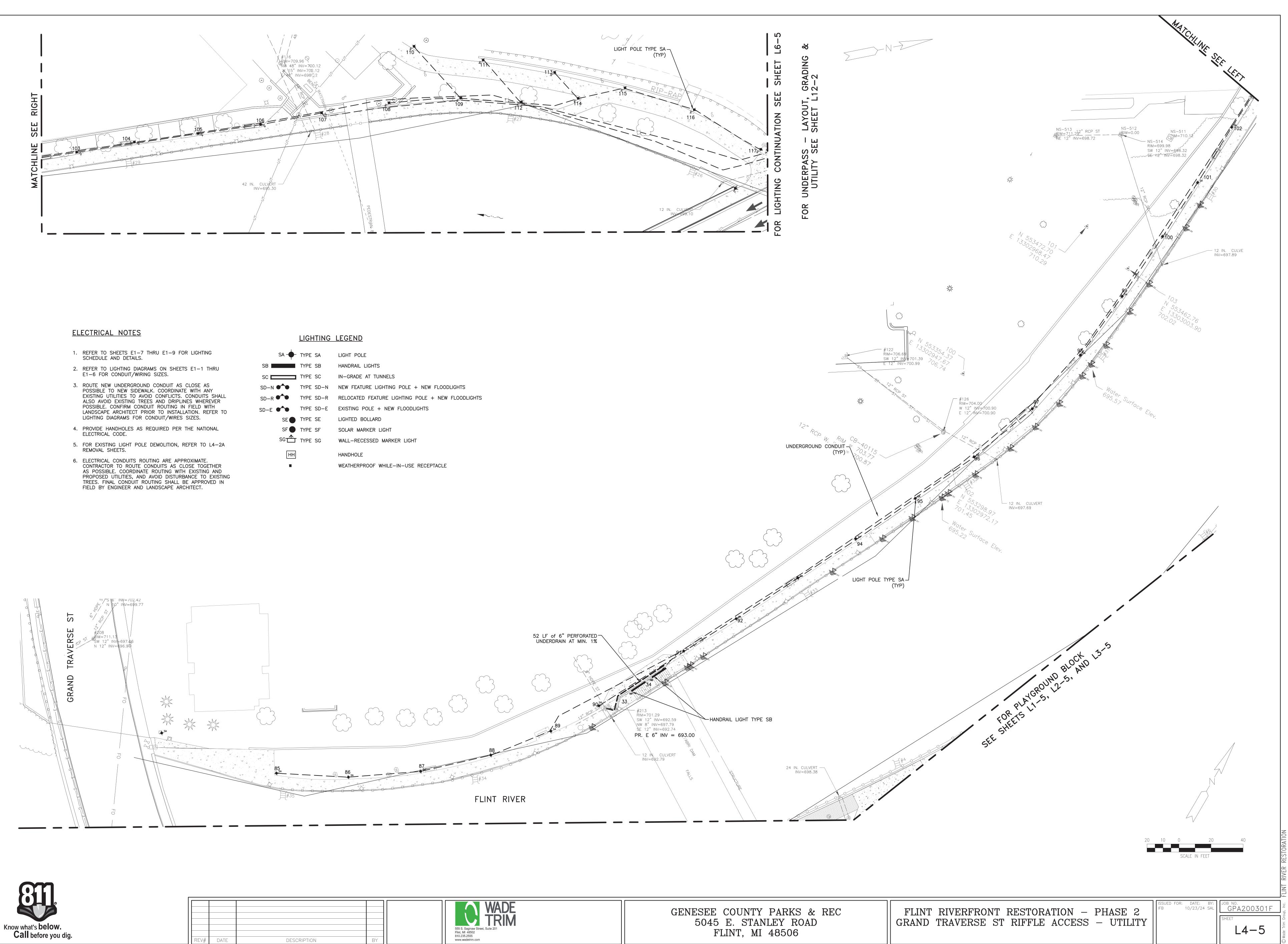
ONLY REMOVE	REINFORCI	ICH CANNOT
TES REMOVAL		

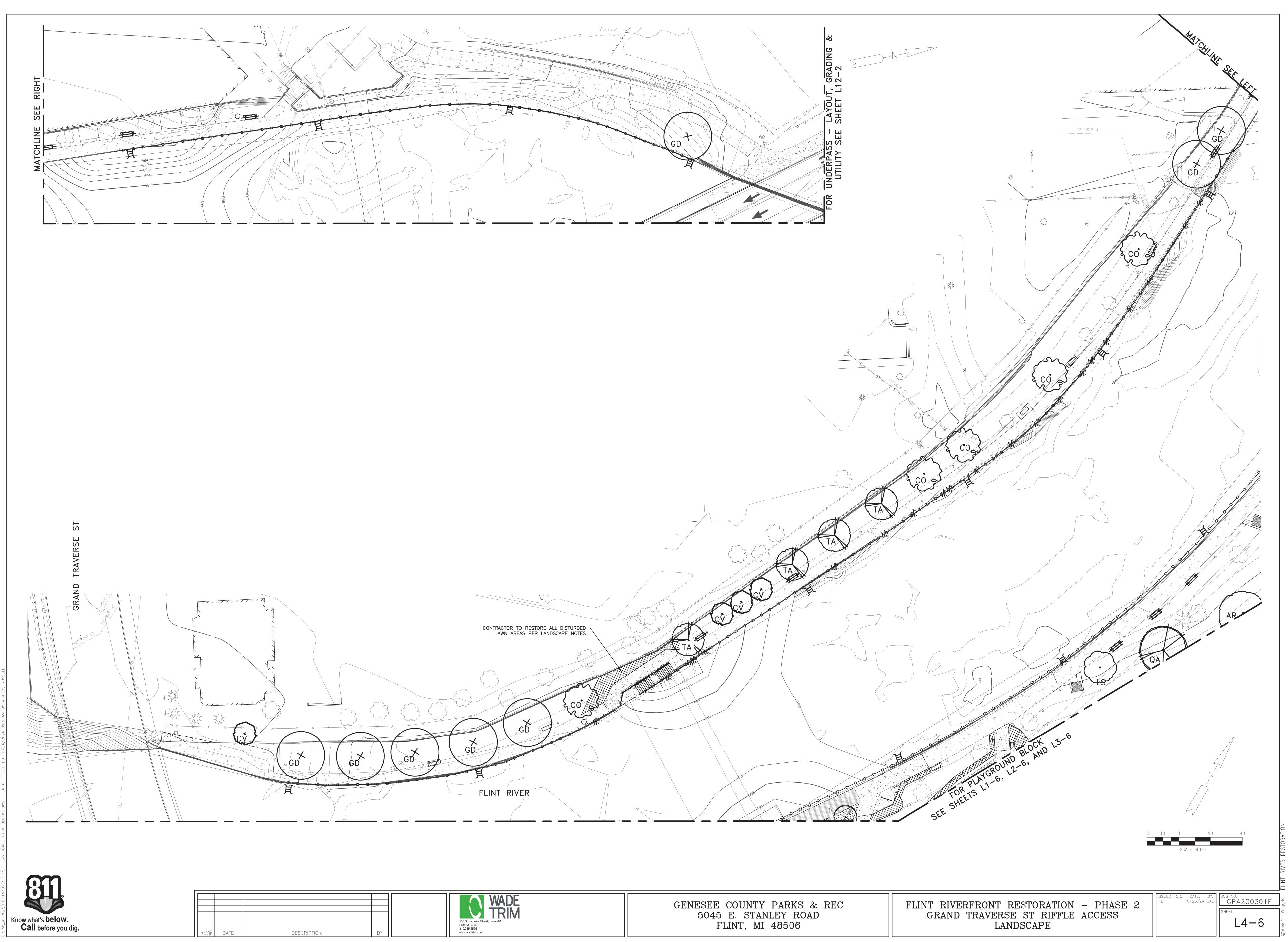


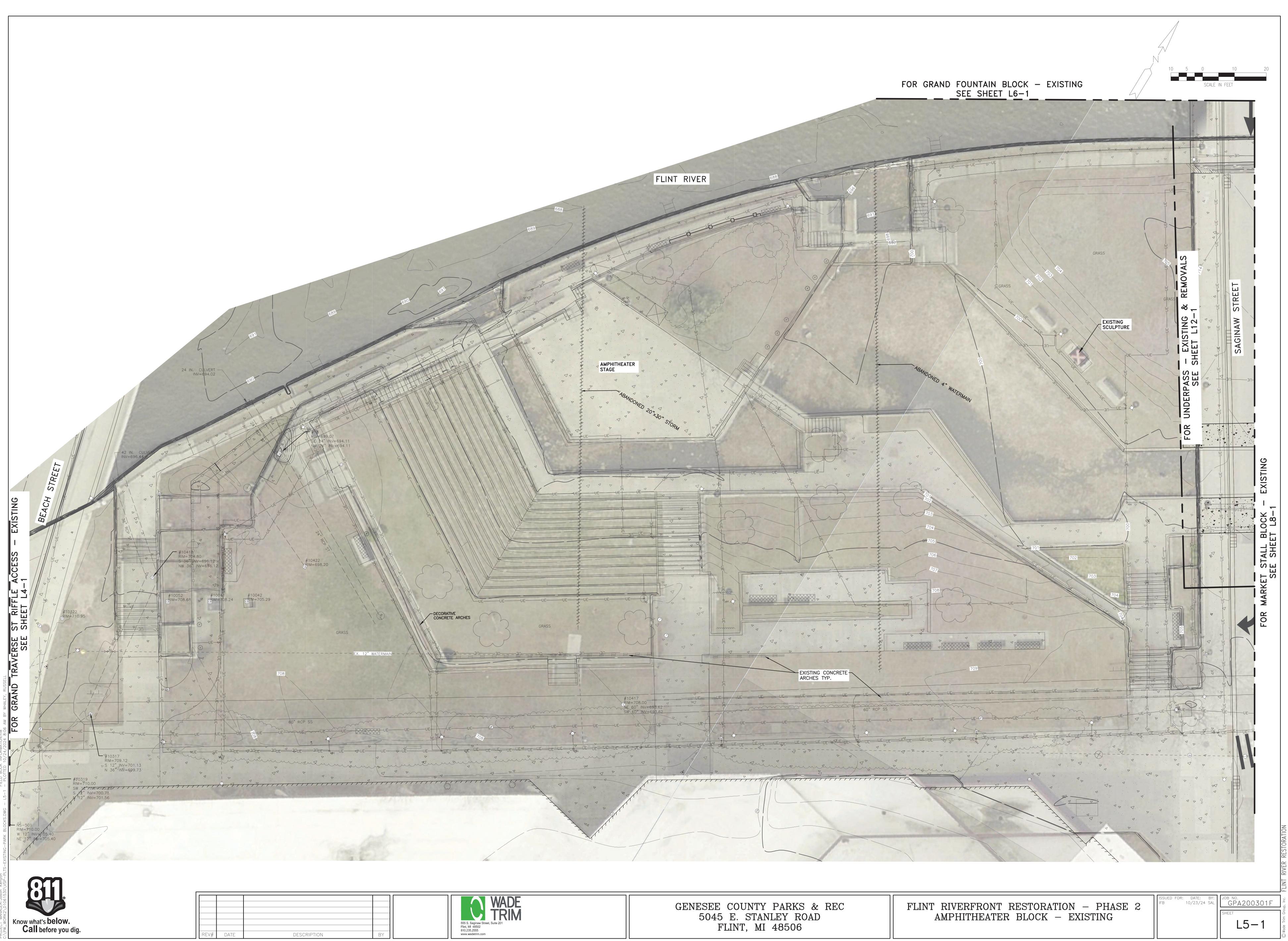


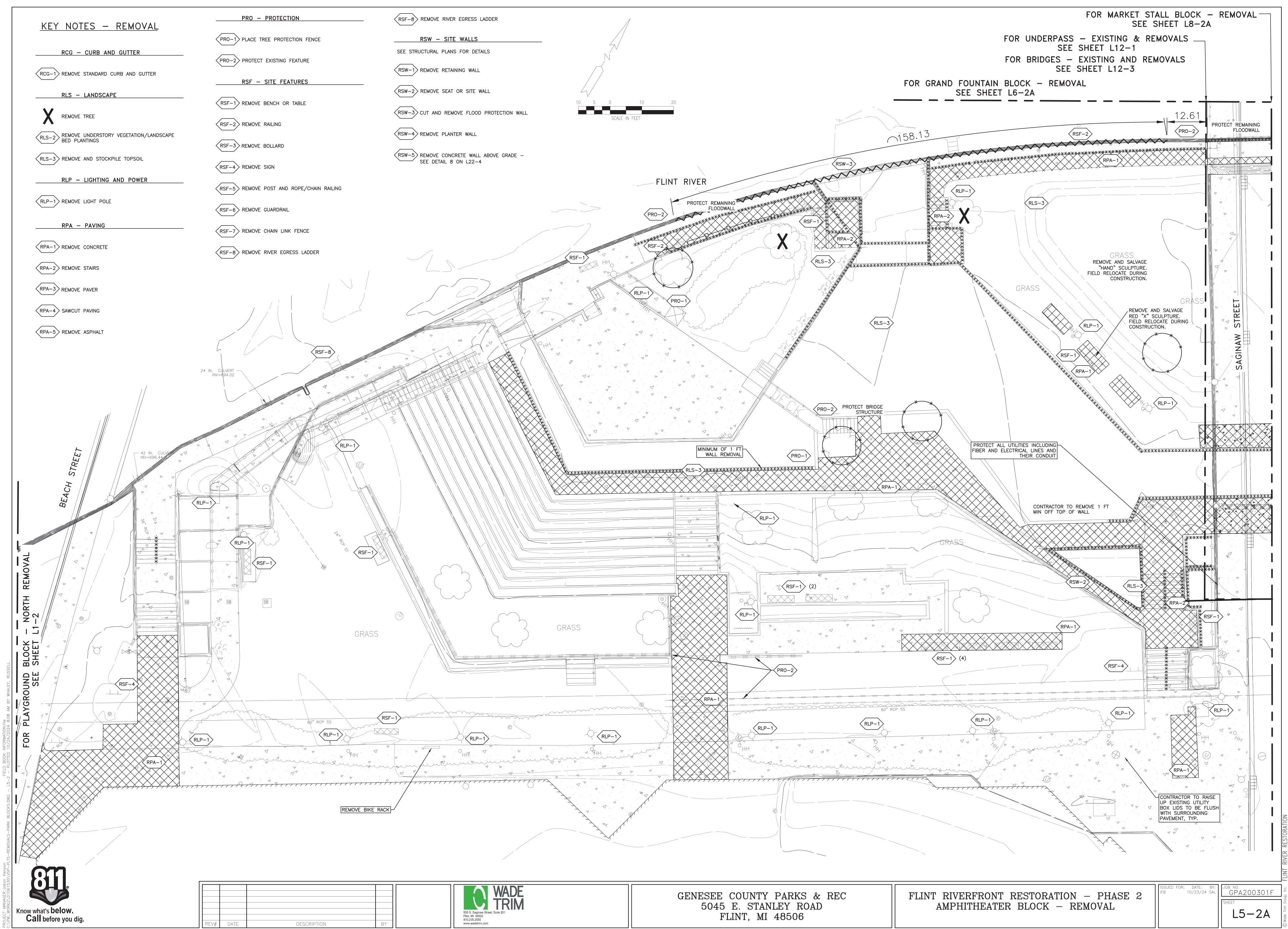




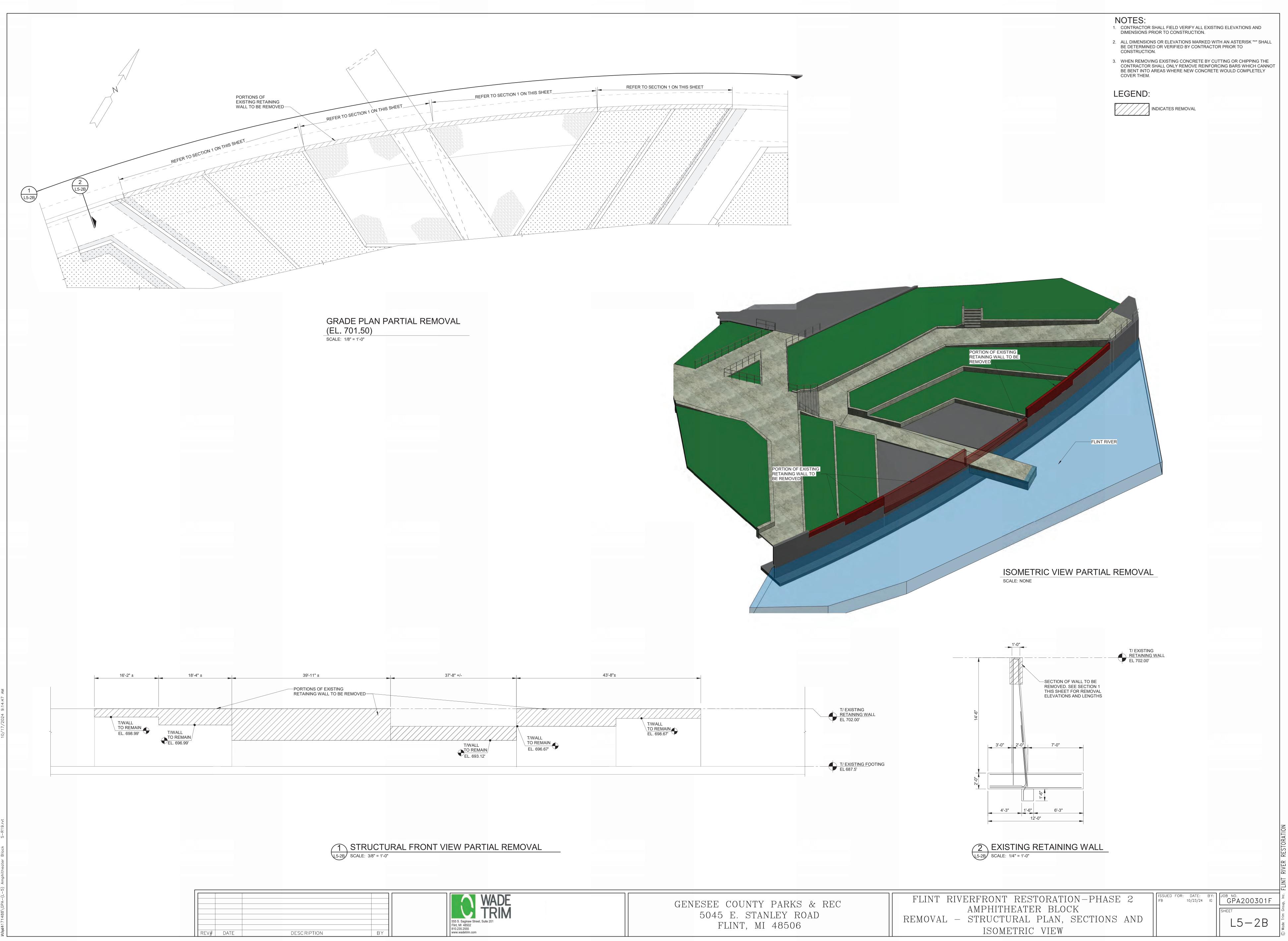




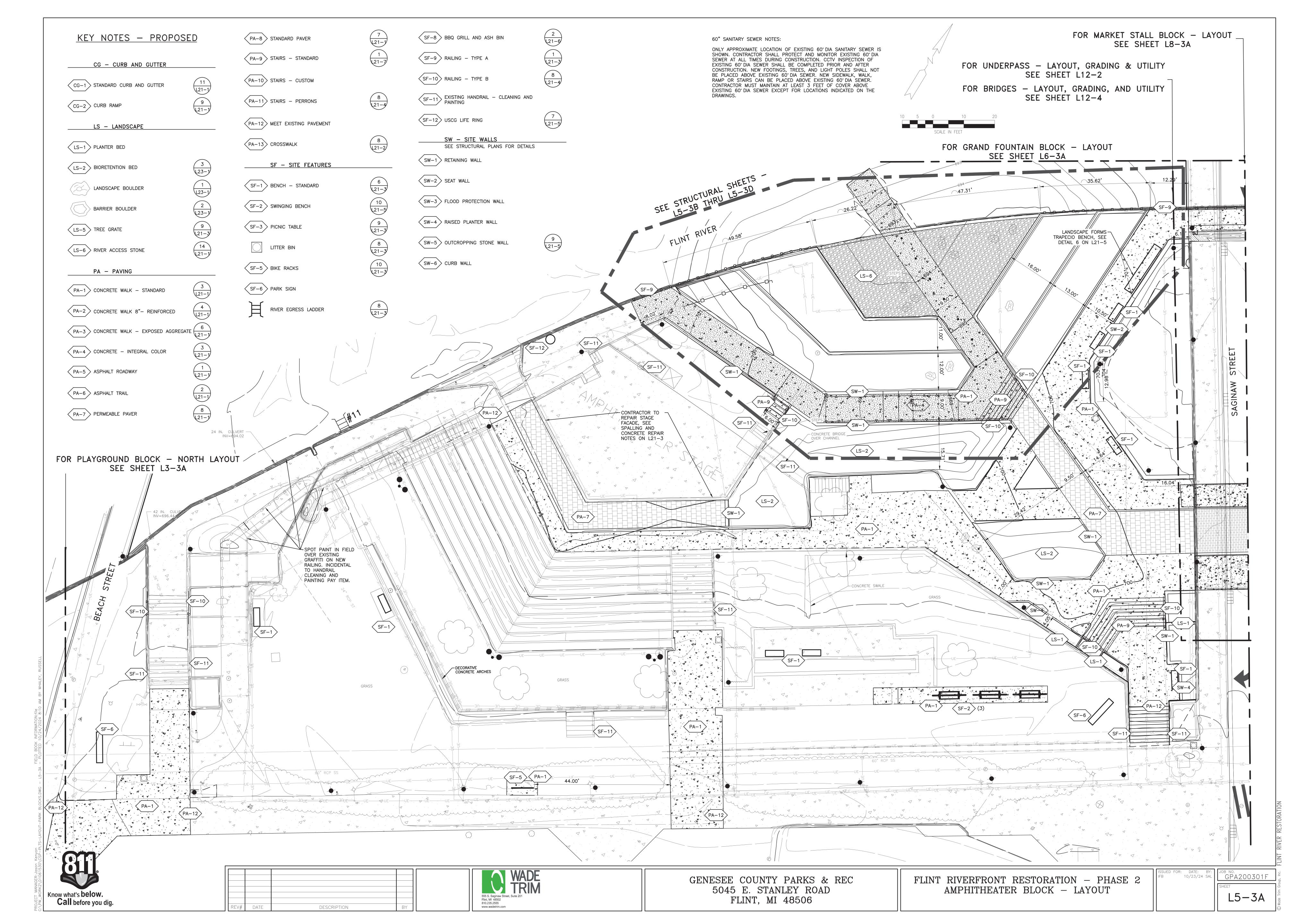


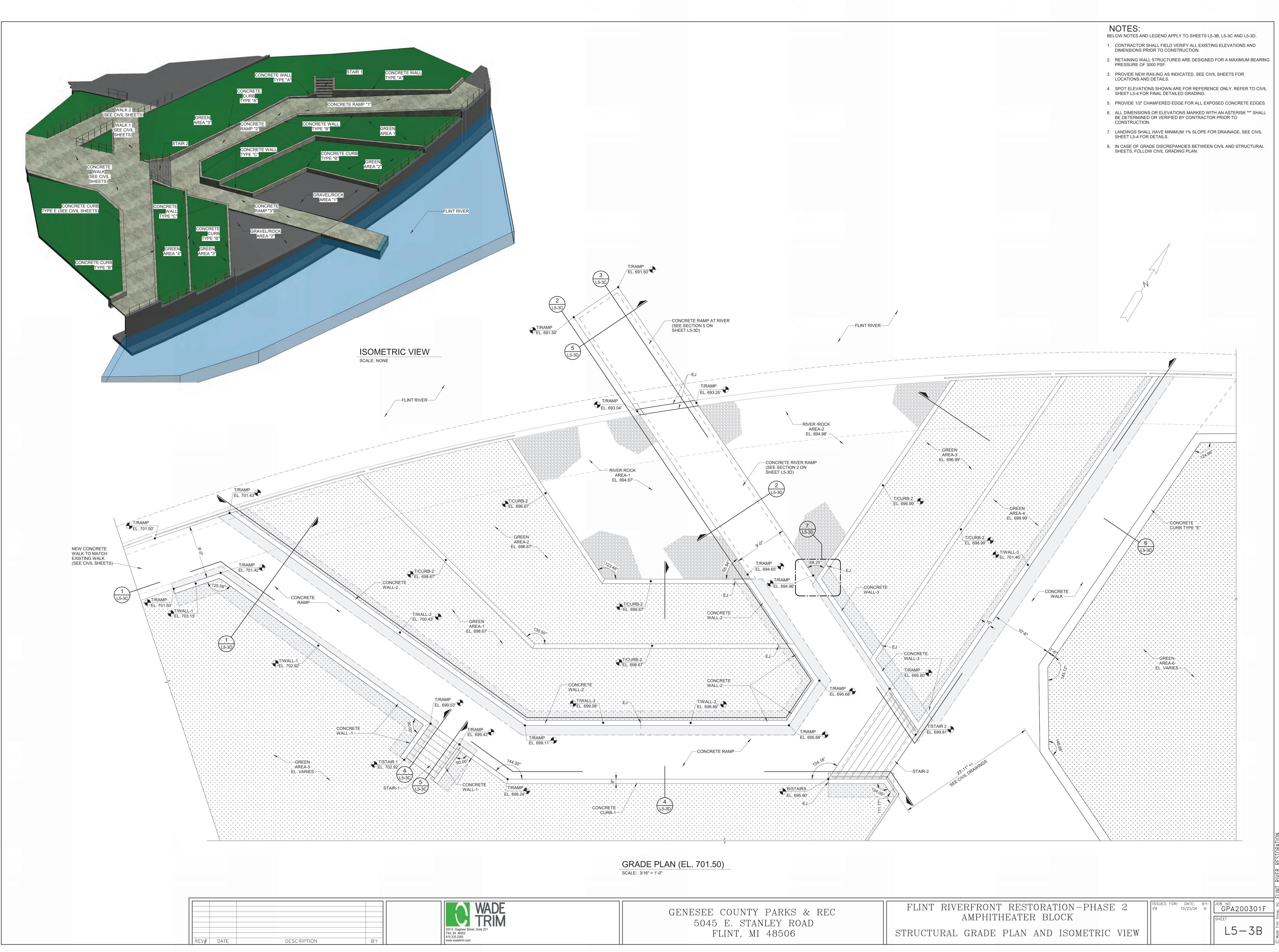


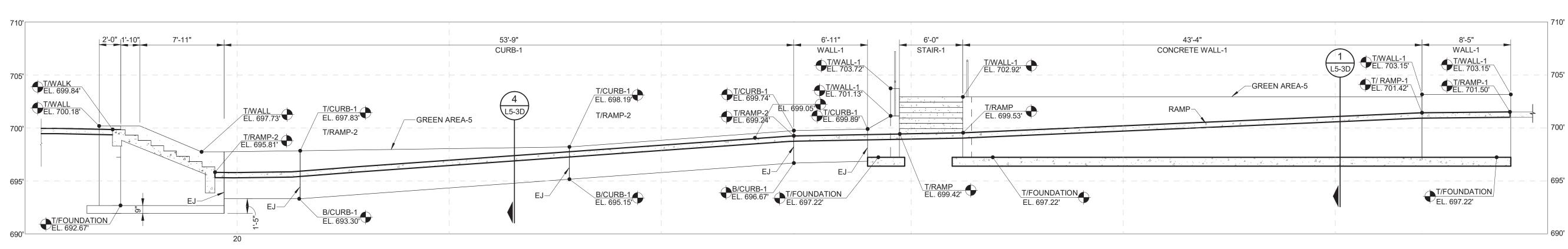
PARKS	&	REC	
NLEY RO	AD		
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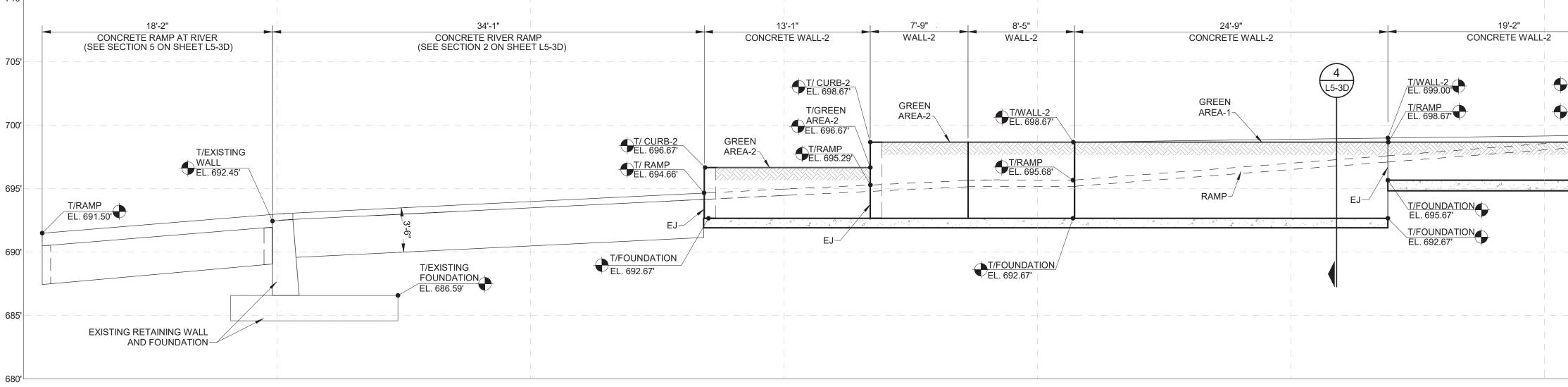


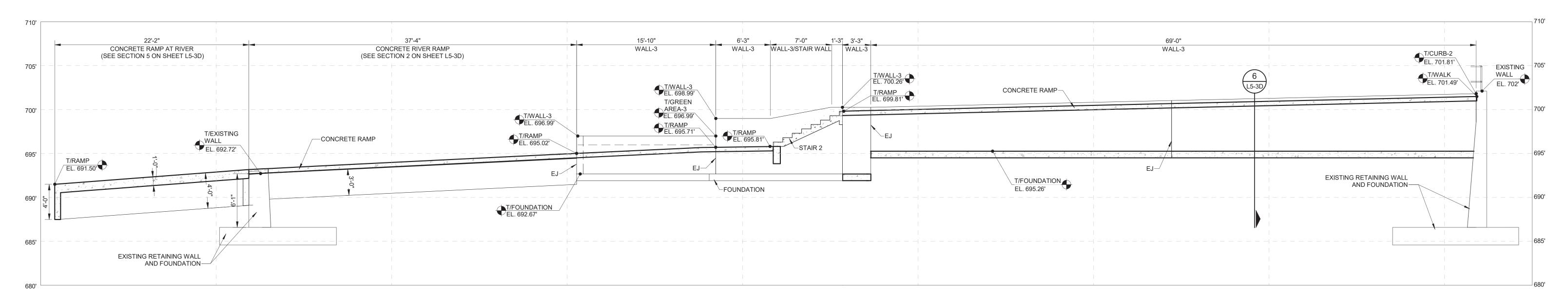
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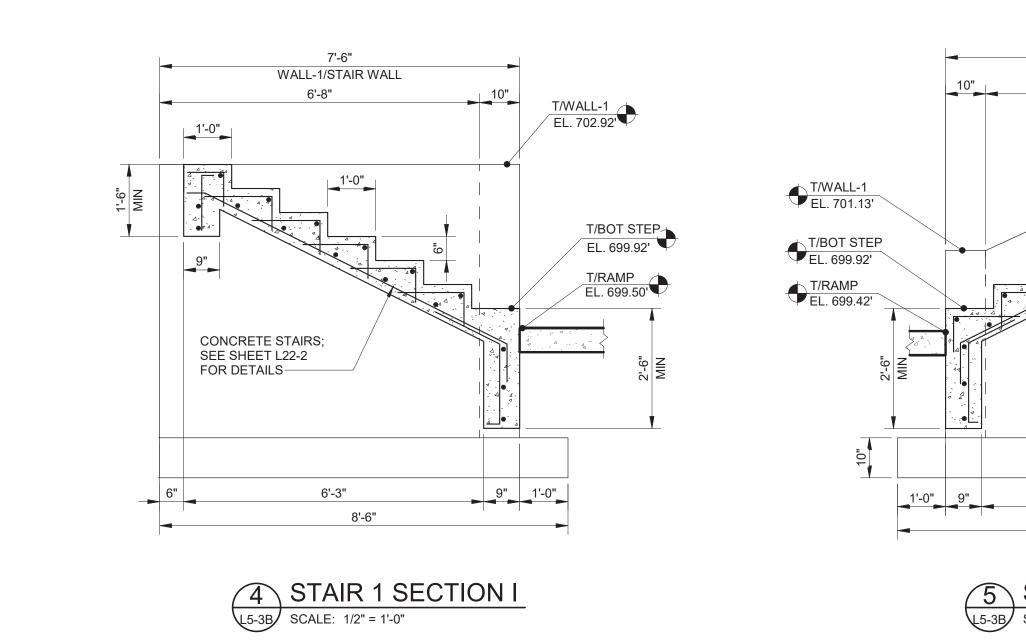








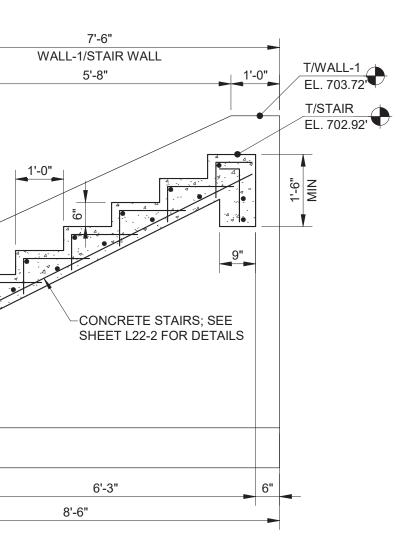




REV# DATE **DESC RIPTION** 

# 1 CONCRETE WALL-1 PROFILE L5-3B SCALE: 3/16" = 1'-0"

## 2 CONCRETE WALL-2 PROFILE L5-3B SCALE: 3/16" = 1'-0"



## 3 CONCRETE WALL-3 PROFILE L5-3B SCALE: 3/16" = 1'-0"

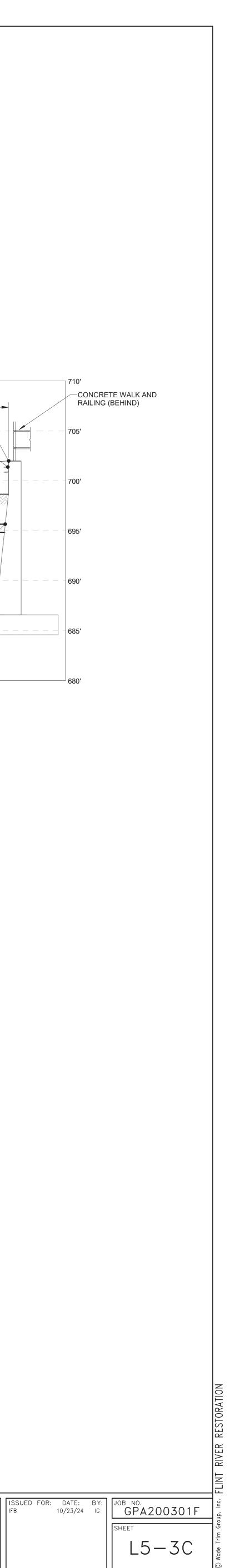
## 5 STAIR 1 SECTION II L5-3B SCALE: 1/2" = 1'-0"

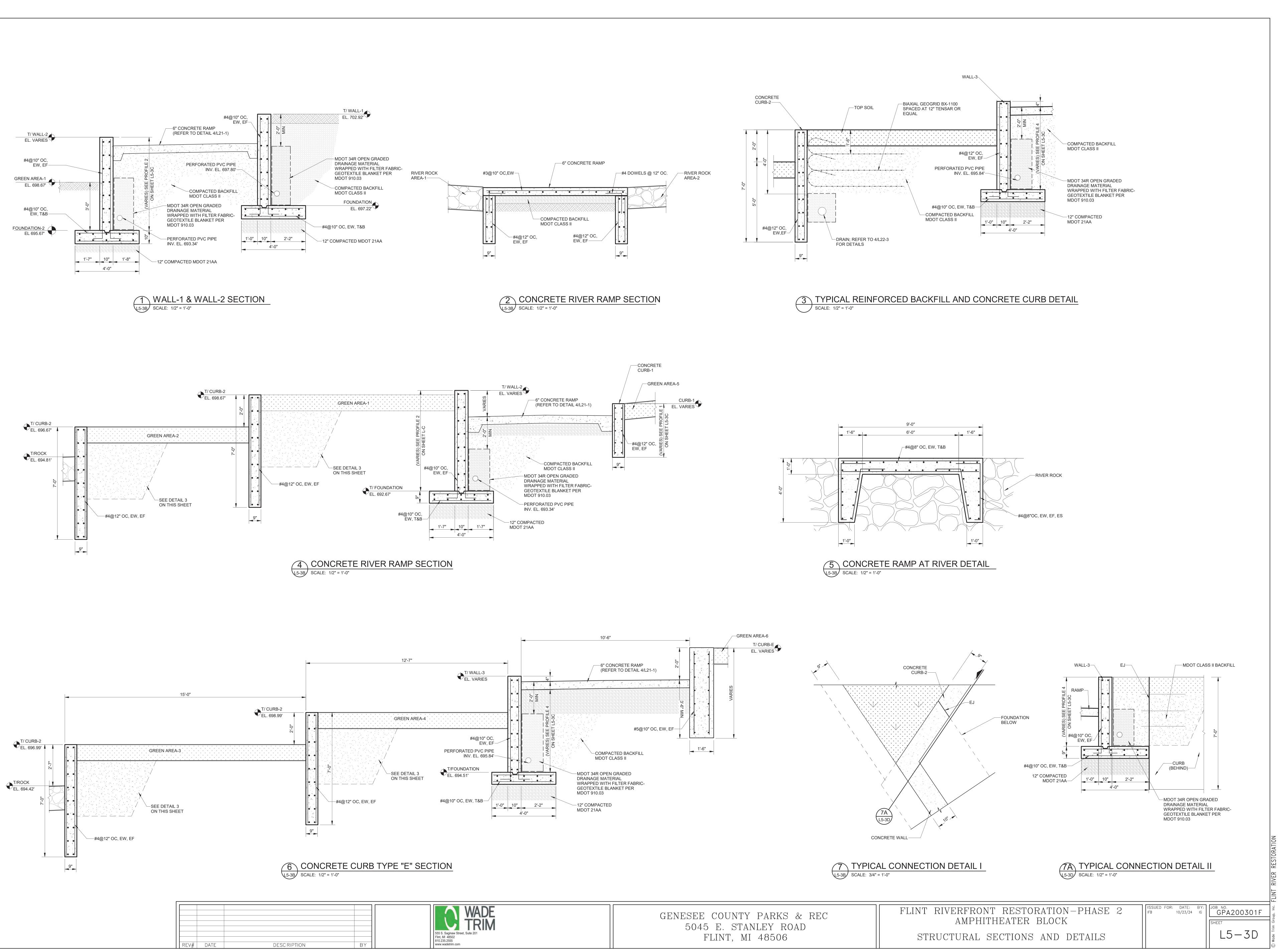




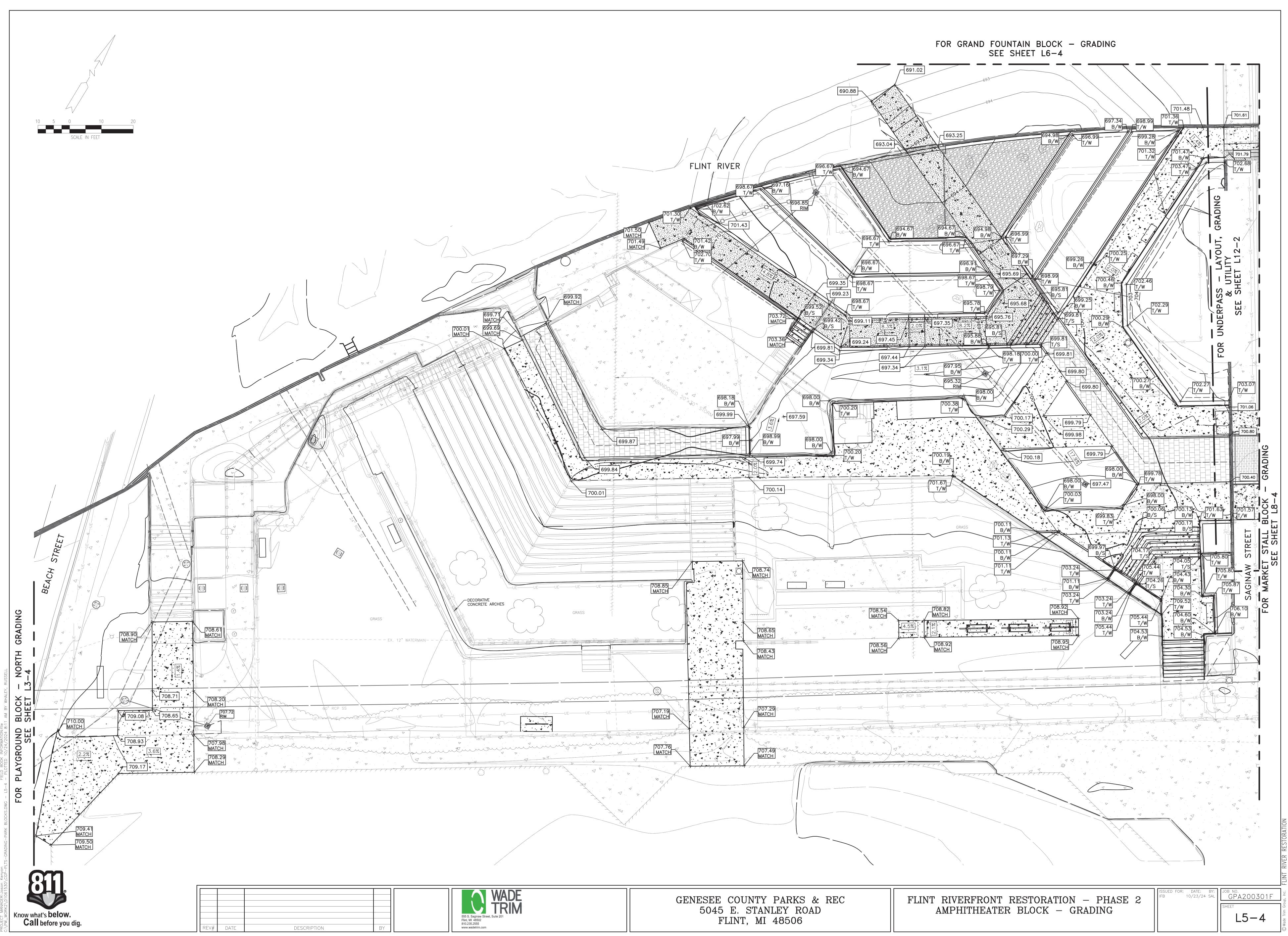
		59'-8" CONCRETE WALL-2	T/EXISTING WALL EL. 702.00'
● <u>T/WALL-2</u> ● EL. 699.25' ● <u>T/RAMP</u> EL. 698.67'	GREEN CO AREA-1		$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
EJ	        -   	FOUNDATION	EXISTING RETAINING WALL AND FOUNDATION
	 '  -       	,         	

## FLINT RIVERFRONT RESTORATION-PHASE 2 AMPHITHEATER BLOCK STRUCTURAL PROFILES AND SECTIONS



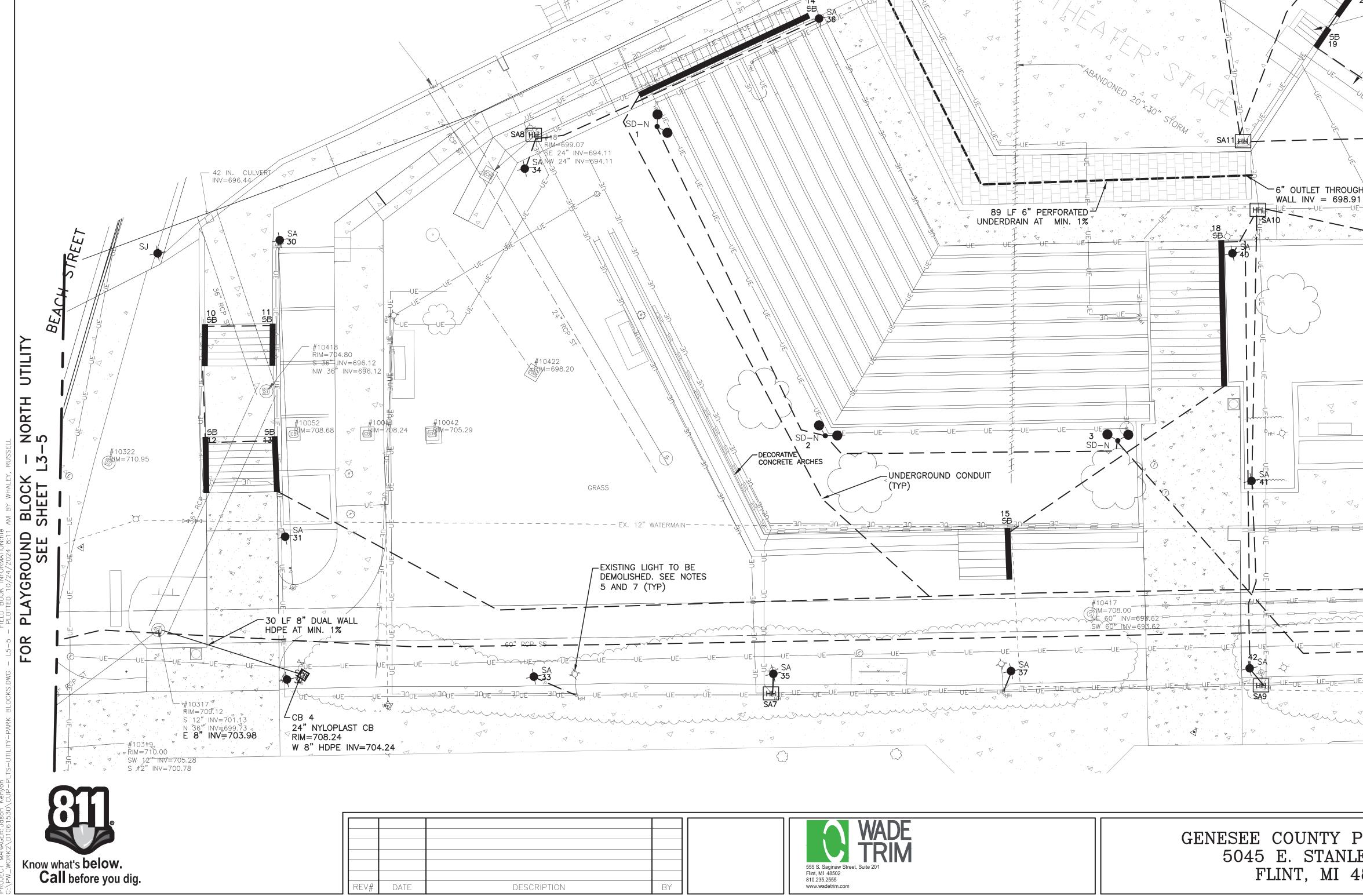


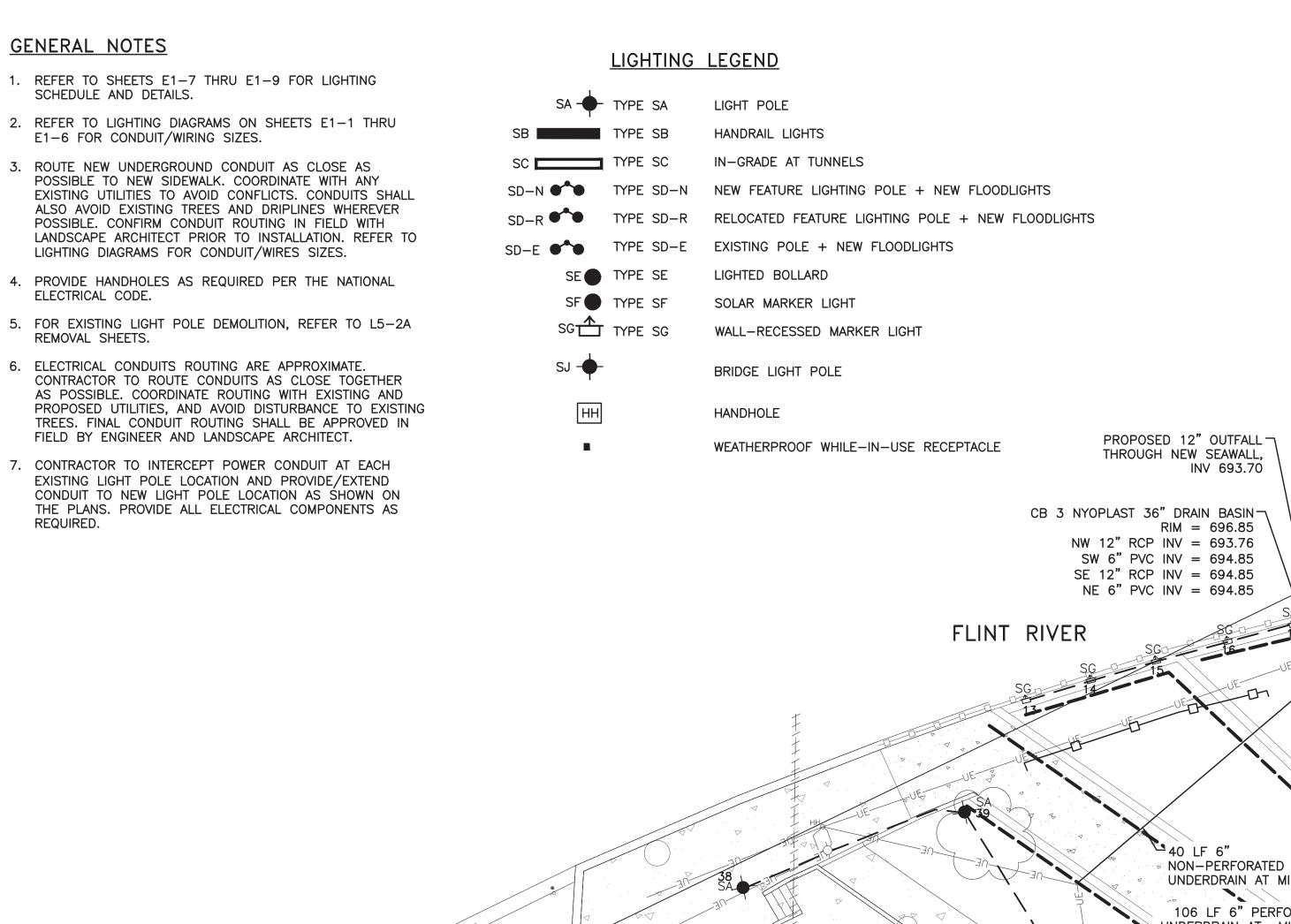
PARK	S	&	REC
LEY :	RO	AD	
4850	6		



## GENERAL NOTES

- 1. REFER TO SHEETS E1-7 THRU E1-9 FOR LIGHTING SCHEDULE AND DETAILS.
- E1-6 FOR CONDUIT/WIRING SIZES.
- 3. ROUTE NEW UNDERGROUND CONDUIT AS CLOSE AS
- ELECTRICAL CODE.
- REMOVAL SHEETS. 6. ELECTRICAL CONDUITS ROUTING ARE APPROXIMATE.
- FIELD BY ENGINEER AND LANDSCAPE ARCHITECT.
- REQUIRED.





			SW 60 TNV		
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UNDERDRAIN AT MIN. 1%

