SHEET INDEX

SHEET	DESCRIPTION

- TITLE SHEET CROSS SECTION & PLAN
- TRAFFIC CONTROL PLAN

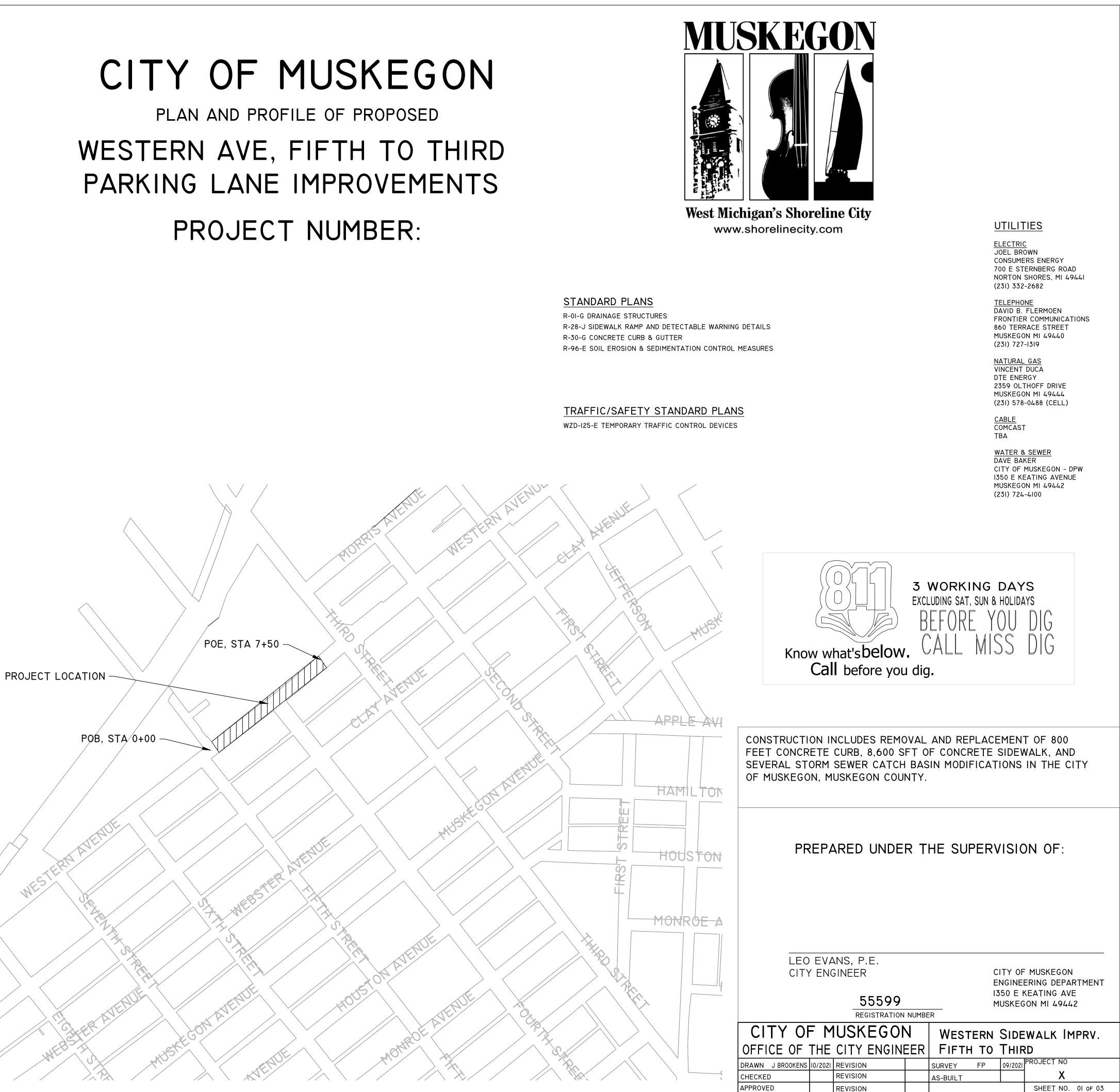
NOTE:

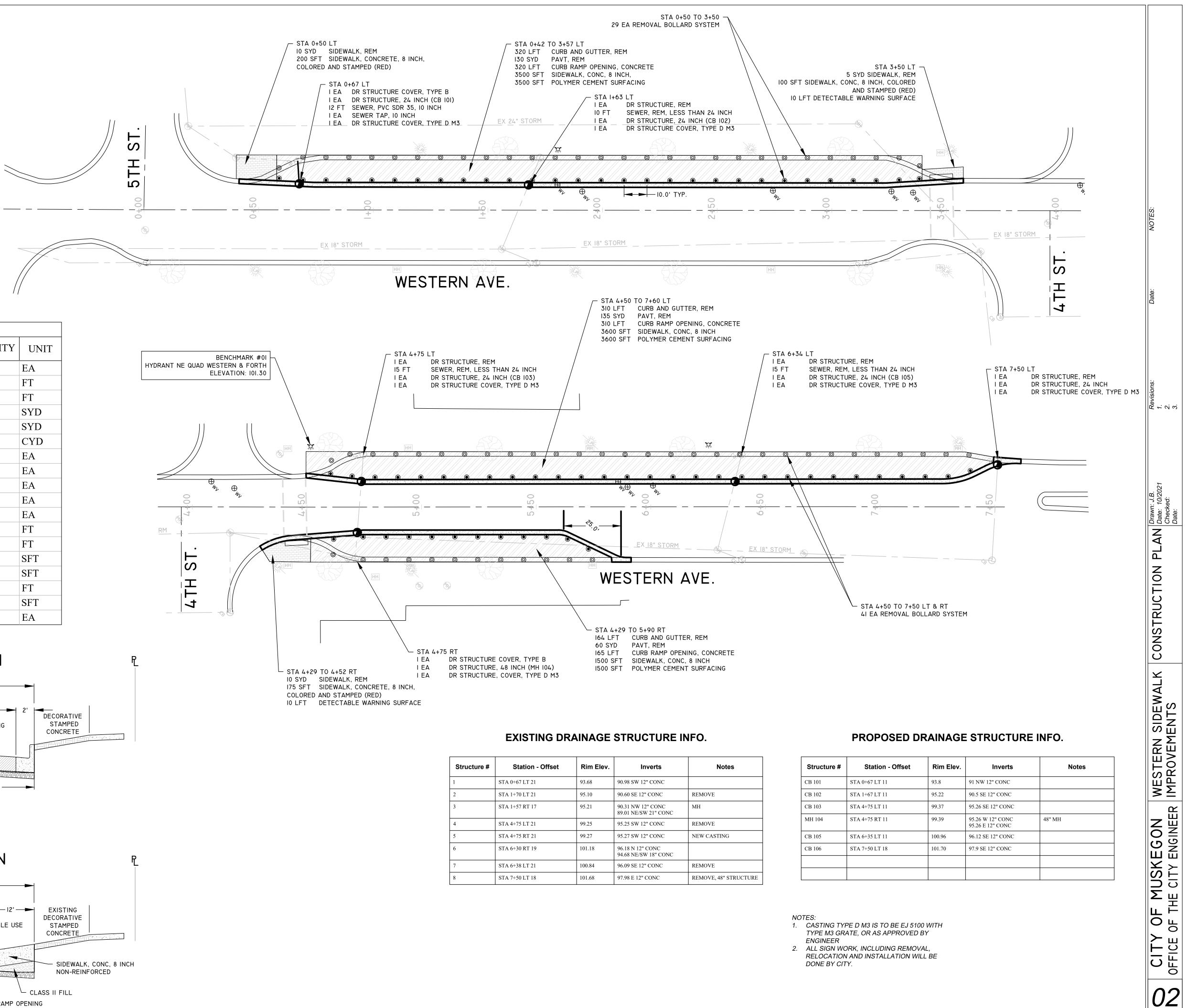
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THESE IMPROVEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2018 AASHTO GUIDELINES.

GENERAL NOTES:

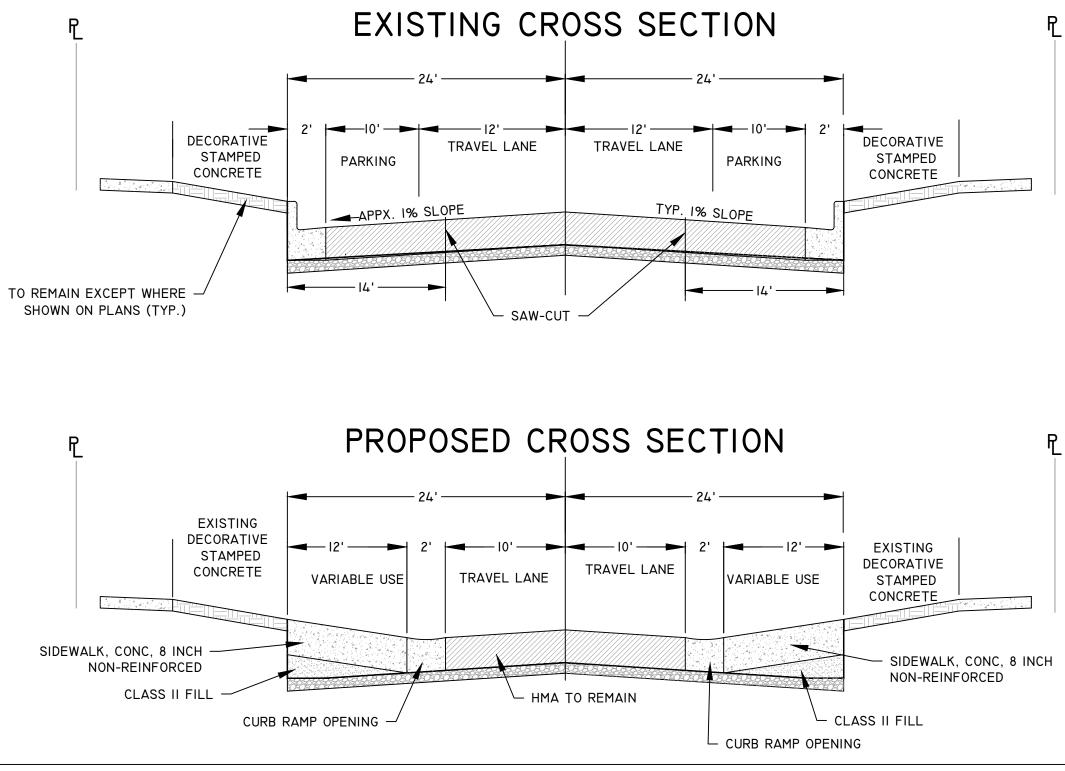
- I. EXISTING CONDITIONS INCLUDING ELEVATIONS ARE SUBJECT TO CHANGE DUE TO CONSTRUCTION OUTSIDE THE CONTROL OF THE CITY OF MUSKEGON. CONTRACTOR IS TO VERIFY EXISTING CONDITIONS OF THE SITE, MATCH ALL EXISTING MEETS AND COORDINATE WORK ACTIVES WITH NEIGHBORING CONTRACTORS.
- 2. UPON REQUEST AND APPROVAL, THE CONTRACTOR MAY OBTAIN A WATER SUPPLY FROM THE CITY OF MUSKEGON FIRE HYDRANTS AT NO COST, PROVIDED THAT THEY FOLLOW THE CONDITIONS OF THE CITY WATER DEPARTMENT.
- 3. FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL MISS DIG, I-800-482-7171, A MINIMUM OF 3 WORKING DAYS EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO EXCAVATING IN THE VICINITY OF ALL UTILITY LINES. ALL MISS DIG PARTICIPATING MEMBERS WILL THUS BE NOTIFIED, THIS DOES NOT RELIEVE THE CONTRACTOR THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE PART OF THE MISS DIG ALERT SYSTEM.
- PUBLIC UTILITIES OF ALL TYPES HAVE BEEN SHOWN ON THE PLAN USING AVAILABLE INFORMATION, BUT ARE NOT GUARANTEED AS ACCURATE OR THAT UTILITIES OTHER THAN THOSE SHOWN ARE NOT PRESENT.
- 5. THE CONTRACTOR SHALL SAW CUT ALL MEETS RELATIVE TO SIDEWALK OR PAVEMENT CONSTRUCTION UNLESS WAIVED BY THE ENGINEER. PAYMENT FOR SAW CUTTING SHALL BE INCLUDED IN THE PAYMENT FOR THE PAY ITEMS PAVT, REM, MODIFIED; CURB AND GUTTER, REM; AND/OR SIDEWALK, REM. NO ADDITIONAL PAYMENT WILL ALLOWED FOR SAW CUTTING.
- 6. THE CONTRACTOR SHALL PREVENT EROSION AND CONTROL SEDIMENTATION ASSOCIATED WITH THE PROJECT. KEEP SEDIMENTATION WITHIN THE RIGHT OF WAY (OR CONSTRUCTION LIMITS) AND OUT OF SURFACE WATERS. CONSTRUCT AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS, TO INCLUDE INLET PROTECTION, FABRIC DROPS ON ALL INLET STRUCTURES NEW AND EXISTING AND INSTALL TEMPORARY EROSION, SEDIMENTATION CONTROLS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REMOVE ON A DAILY BASIS SOIL TRACKED ONTO EXISTING PAVED ROADS, (VACUUM METHODS ARE PREFERRED BUT BROOM SWEEPING IS ACCEPTABLE IF THE MATERIAL IS REMOVED) THE CONTRACTOR SHALL INSPECT ALL SOIL EROSION / SEDIMENTATION CONTROL MEASURES ON A WEEKLY BASIS OR AFTER EACH RAIN FALL EVENT, CLEAN REPAIR, OR REPLACE, AS NECESSARY, TO ENSURE PROPER FUNCTION. ALL SOIL EROSION / SEDIMENTATION CONTROLS SHALL REMAIN UNTIL ALL DISTURBED AREAS ARE STABILIZED. ALL SOIL EROSION / SEDIMENTATION CONTROL, EXCEPT FOR THE EROSION CONTROL, INLET PROTECTION, FABRIC DROP AND SILT FENCE SHALL BE INCLUDED WITH THE PAY ITEM PROJECT CLEAN UP. NO OTHER PAYMENT SHALL BE MADE.

PLAN AND PROFILE OF PROPOSED PARKING LANE IMPROVEMENTS

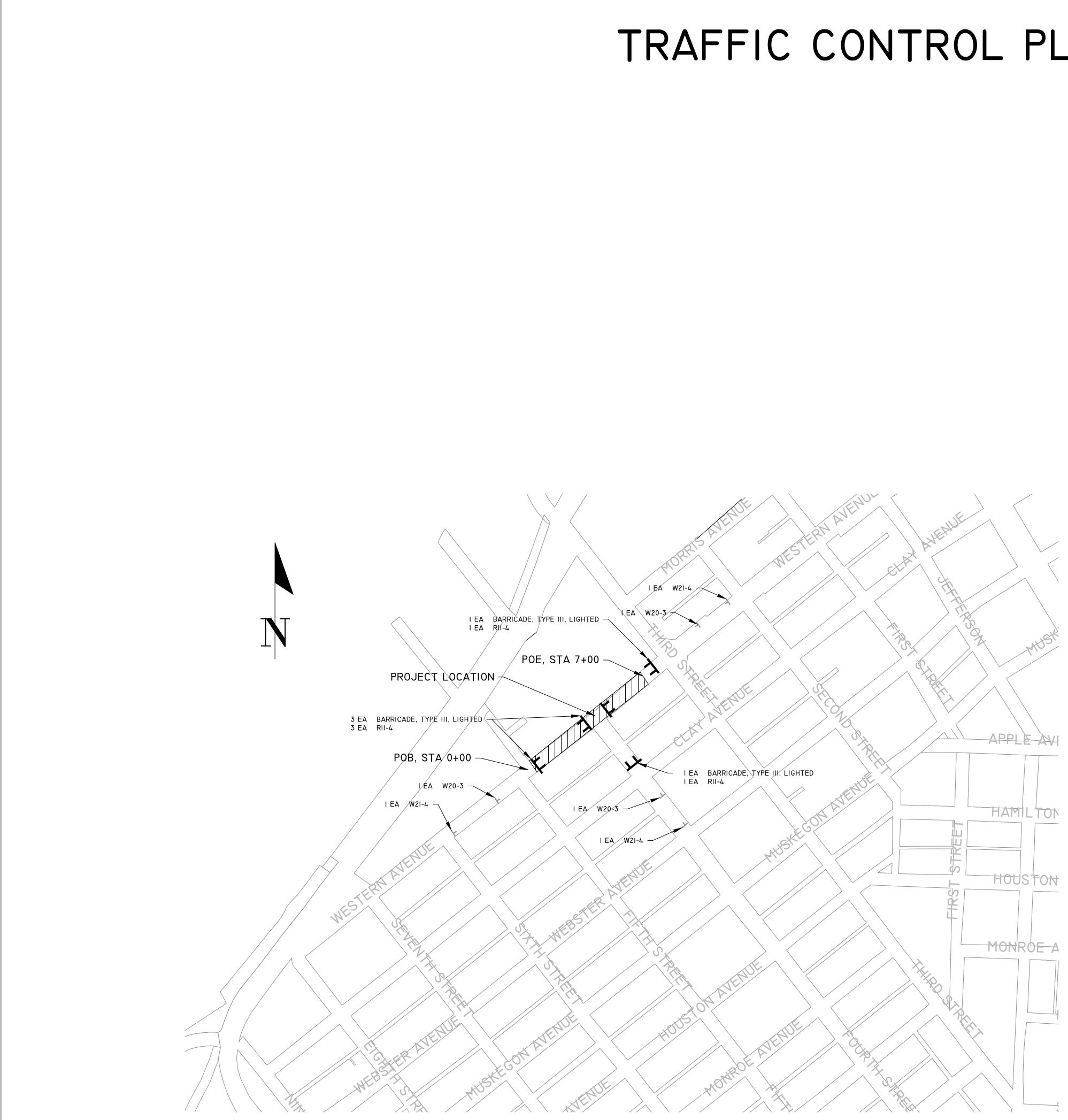




QUANTITIES THIS SHEET				
DESCRIPTION	QUANTITY	UNIT		
DR STRUCTURE, REM	4	EA		
SEWER, REM, LESS THAN 24 INCH	40	FT		
CURB AND GUTTER, REM,	794	FT		
PAVT, REM	325	SYD		
SIDEWALK, REM	25	SYD		
EMBANKMENT, CIP	90	CYD		
SEWER TAP, 10 INCH	1	EA		
DR STRUCTURE COVER, TYPE B	2	EA		
DR STRUCTURE COVER, TYPE D	6	EA		
DR STRUCTURE, 24 INCH DIA	5	EA		
DR STRUCTURE, 48 INCH DIA	1	EA		
DETECTABLE WARNING SURFACE	20	FT		
CURB RAMP OPENING, CONC	795	FT		
SIDEWALK, CONC, 8 INCH	8600	SFT		
SIDEWALK, CONC, 8 INCH, COLORED AND STAMPED	475	SFT		
SEWER, PVC SDR 35, 10 INCH, TR DET B	12	FT		
POLYMER CEMENT SURFACING	8600	SFT		
REMOVAL BOLLARD SYSTEM	70	EA		



Structure #	Station - Offset	Rim Elev.	Inverts	Note
1	STA 0+67 LT 21	93.68	90.98 SW 12" CONC	
2	STA 1+70 LT 21	95.10	90.60 SE 12" CONC	REMOVE
3	STA 1+57 RT 17	95.21	90.31 NW 12" CONC 89.01 NE/SW 21" CONC	МН
4	STA 4+75 LT 21	99.25	95.25 SW 12" CONC	REMOVE
5	STA 4+75 RT 21	99.27	95.27 SW 12" CONC	NEW CASTING
6	STA 6+30 RT 19	101.18	96.18 N 12" CONC 94.68 NE/SW 18" CONC	
7	STA 6+38 LT 21	100.84	96.09 SE 12" CONC	REMOVE
8	STA 7+50 LT 18	101.68	97.98 E 12" CONC	REMOVE, 48" S'



TRAFFIC CONTROL PLAN

R9-

QUANTITIES THIS SHEET			
DESCRIPTION	QUANTITY	UNIT	
MAINTENANCE GRAVEL, LM	0	CYD	
MINOR TRAFFIC CONTROL DEVICES	1	LS	
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN	5	EA	
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, OPER	5	EA	
CHANNELIZING DEVICE, 42 INCH, FURN	0	EA	
CHANNELIZING DEVICE, 42 INCH, OPER	0	EA	
PLASTIC DRUM, FLUORESCENT, FURN	20	EA	
PLASTIC DRUM, FLUORESCENT, OPER	20	EA	
SIGN, TYPE B, TEMP, PRISMATIC, FURN	190	SFT	
SIGN, TYPE B, TEMP, PRISMATIC, OPER	190	SFT	
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN	0	SFT	
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER	0	SFT	
TRAFFIC REGULATOR CONTROL	0	LS	
PEDESTRIAN TYPE II BARRICADE, TEMP	10	EA	
PEDESTRIAN TYPE II CHANNELIZER, TEMP	800	FT	
PEDESTRIAN PATH, TEMP	0	FT	
PEDESTRIAN RAMP, TEMP	0	EA	
PEDESTRIAN BARRIER WITH FENCE, TEMP	0	FT	
BUS STOP, TEMP	0	EA	

TRAFFIC CONTROL NOTES:

- I. THE CONTRACTOR SHALL CLOSE WESTERN COMPLETELY, ACCORDING TO THIS TRAFFIC CONTROL PLAN.
- 2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES, RESIDENCES, AND CROSS STREETS AS DIRECTED BY THE ENGINEER. CONTRACTOR MAY USE AGGREGATE OR HMA MILLINGS. NO ADDITIONAL PAYMENT WILL BE MADE FOR MAINTAINING TRAFFIC.
- WESTERN IS THE HEART OF MUSKEGON'S DOWNTOWN. CONTRACTOR 3 CAN EXPECT A LARGE AMOUNT OF PEDESTRIANS WITHIN THE CONSTRUCTION AREA. ENGINEER WILL BE INSPECTING PEDESTRIANS BARRICADES REGULARLY FOR SAFETY.

PROPOSED QUANTITIES SIGN, TYPE B, TEMPORARY						
SIGN	DESCRIPTION	QUANTIT Y	AREA (SFT)	TOTAL AREA (SFT)		
II-2	ROAD CLOSED	0	16	0		
II-4	ROAD CLOSED TO THRU TR	5	16	80		
/20-3	ROAD CLOSED AHEAD	3	16	48		
/21-4	ROAD WORK AHEAD	3	16	48		
3-2	NO LEFT TURN	0	4	0		
3-1	NO RIGHT TURN	0	4	0		
5-1a	WRONG WAY	0	6	0		
6-1 RT	ONE WAY (RIGHT)	0	3	0		
8-3	NO PARKING SYMBOL	0	1	0		
9-8	PEDESTRIAN CROSSWALK	0	4.5	0		
9-9	SIDEWALK CLOSED	4	2	8		
9-10	SIDEWALK CLOSED, USE OTHER S	0	3	0		
9-11	SIDEWALK CLOSED, CROSS HERE	3	2	6		
			TOTAL:	190		

ちょう CONTROL TRAFFIC PLAN WESTERN SIDEWALK IMPROVEMENTS F MUSKEGON THE CITY ENGINEER ОГ 10 1 03