

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

UTILITY & STREET IMPROVEMENTS

BUTLER STREET: YUBA STREET TO ERICKSON STREET
CATHERINE AVENUE: IRWIN AVENUE TO WOOD STREET

DWRF NO. : 7717-01

SOIL BORING GENERAL NOTES

WITHIN EACH SOIL BORING, WHERE SHOWN, SOIL SAMPLES WERE OBTAINED BY THE STANDARD PENETRATION TEST METHOD, ACTU DISOM, WHEREBY A SPLIT-SPOON SAMPLER IS DRIVEN THREE SUCCESSIVE 6-INCH INCREMENTS WITH A 140 POUND WEIGHT FALLING 30 INCHES. THE NUMBER OF BLOWS REQUIRED TO DRIVE THE SAMPLER FOR EACH INCREMENT IS PRESENTED ON THE SOIL BORING LOGS.

GRANULAR SOILS (COARSE-GRAINED) HAVE MORE THAN SIZE OF THEIR DRY WEIGHT RETAINED ON A #200 SEIVE. THEY ARE DESCRIBED AS: BOULDERS, COBBLES, GRAVEL, OR SAND. FINE-GRAINED SOILS HAVE LESS THAN SIZE OF THEIR DRY WEIGHT RETAINED ON A #200 SEIVE. THEY ARE DESCRIBED AS: CLAYS OR CLAYEY SILTS IF THEY ARE COHESIVE, AND SILTS IF THEY ARE NON-COHESIVE. IN ADDITION TO GRADATION, GRANULAR SOILS ARE DEFINED BASED ON THEIR IN-SITU DENSITY. FINE GRAINED SOILS ARE FURTHER DEFINED BASED ON THEIR STRENGTH OR CONSISTENCY, AND ON THEIR PLASTICITY.

MAJOR SOIL COMPONENT	GRADATION RANGE	DESCRIPTION TERMS (OF MAJOR SOIL CONSTITUENTS)	PERCENT OF DRY WEIGHT
BOULDERS	OVER 12 INCHES (305mm)		
COBBLES	12 INCHES TO 3 INCHES (305mm TO 76mm)	TRACE	1 - 10
GRAVEL COARSE	3 INCHES TO 3/4 INCHES (76mm TO 19mm)	LITTLE	10 - 20
GRAVEL FINE	3/4 INCHES TO #4 SEIVE (19mm TO 4.75mm)	SOME	20 - 35
SAND COARSE	#4 SEIVE TO #10 SEIVE (4.75mm TO 2.00mm)	AND	35 - 50
SAND MEDIUM	#10 SEIVE TO #40 SEIVE (2.00mm TO 0.425mm)		
SAND FINE	#40 SEIVE TO #200 SEIVE (0.425mm TO 0.075mm)		
SILT	PASSING #200 SEIVE (0.075mm) TO 0.0075mm		
CLAY	SMALLER THAN 0.0075mm		

IN-SITU DENSITY OF GRANULAR SOILS:		UNCONFINED COMP. STRENGTH, Q_u (tsf)		CONSISTENCY	
N - BLOWS/FT.	IN-SITU DENSITY				
0 - 4	VERY LOOSE	0.25 - 0.50	<0.25	VERY SOFT	
5 - 10	LOOSE	0.50 - 1.00	0.25 - 0.50	SOFT	
11 - 30	MEDIUM DENSE	1.00 - 2.00	1.00 - 2.00	MEDIUM (FIRM)	
31 - 50	DENSE	2.00 - 4.00	2.00 - 4.00	STIFF	
50 +	VERY DENSE	4.00 - 8.00	4.00 - 8.00	VERY STIFF	
			>8.00	HARD	
				VERY HARD	

WATER LEVELS INDICATED ON THE BORING LOGS ARE THE LEVELS MEASURED IN THE BORING AT THE TIMES INDICATED. IT SHOULD BE NOTED THAT GROUNDWATER LEVELS OBSERVED DURING DRILLING IN PREDOMINANTLY COHESIVE SOILS ARE NOT NECESSARILY INDICATIVE OF THE STATIC GROUNDWATER LEVEL. THIS IS DUE TO THE RELATIVELY LOW PERMEABILITY OF CLAY SOILS AND THE TENDENCY OF DRILLING OPERATIONS TO TEMPORARILY SEAL OFF NATURAL PATHS OF GROUNDWATER MOVEMENT INTO THE BOREROLE. ADDITIONALLY, FLUCTUATIONS IN GROUNDWATER LEVELS SHOULD BE ANTICIPATED WITH SEASONAL VARIATIONS AND FOLLOWING PERIODS OF HEAVY OR PROLONGED PRECIPITATION.

THE SOIL BORING LOGS SHOWN ON THE CONSTRUCTION PLANS ARE BEING FURNISHED FOR YOUR CONVENIENCE AND GENERAL INFORMATION ONLY. THE DATA SHOWN ON THE BORING LOGS REPRESENTS SOIL AND GROUNDWATER CONDITIONS ENCOUNTERED AT THE RESPECTIVE BORING LOCATIONS. VARIATIONS MAY OCCUR BETWEEN THESE LOCATIONS. ADDITIONALLY, THE STRATIGRAPHIC LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES. HOWEVER, THE TRANSITION MAY BE MORE GRADUAL THAN WHAT IS SHOWN. THE BIDDER WILL BE RESPONSIBLE FOR MAKING THEMSELVES FAMILIAR WITH SUBSURFACE CONDITIONS BY WHATEVER MEANS THEY DEEM NECESSARY AND SHALL MAKE THEIR OWN DETERMINATIONS THEREFROM.

THE BIDDER BY SUBMITTING A BID, WAIVES ALL CLAIMS FOR DAMAGES WHICH THEY MAY SUFFER BY REASONS OF THE INADEQUACIES OR DISCREPANCIES OF THE INFORMATION SHOWN ON THESE SOIL BORING LOGS AND UNDERSTANDS THAT NO COMPENSATION WILL BE PAID TO THEM DUE TO AN INADEQUACY OR DISCREPANCY IN THIS DATA.

STANDARD PLANS & SPECIAL DETAILS

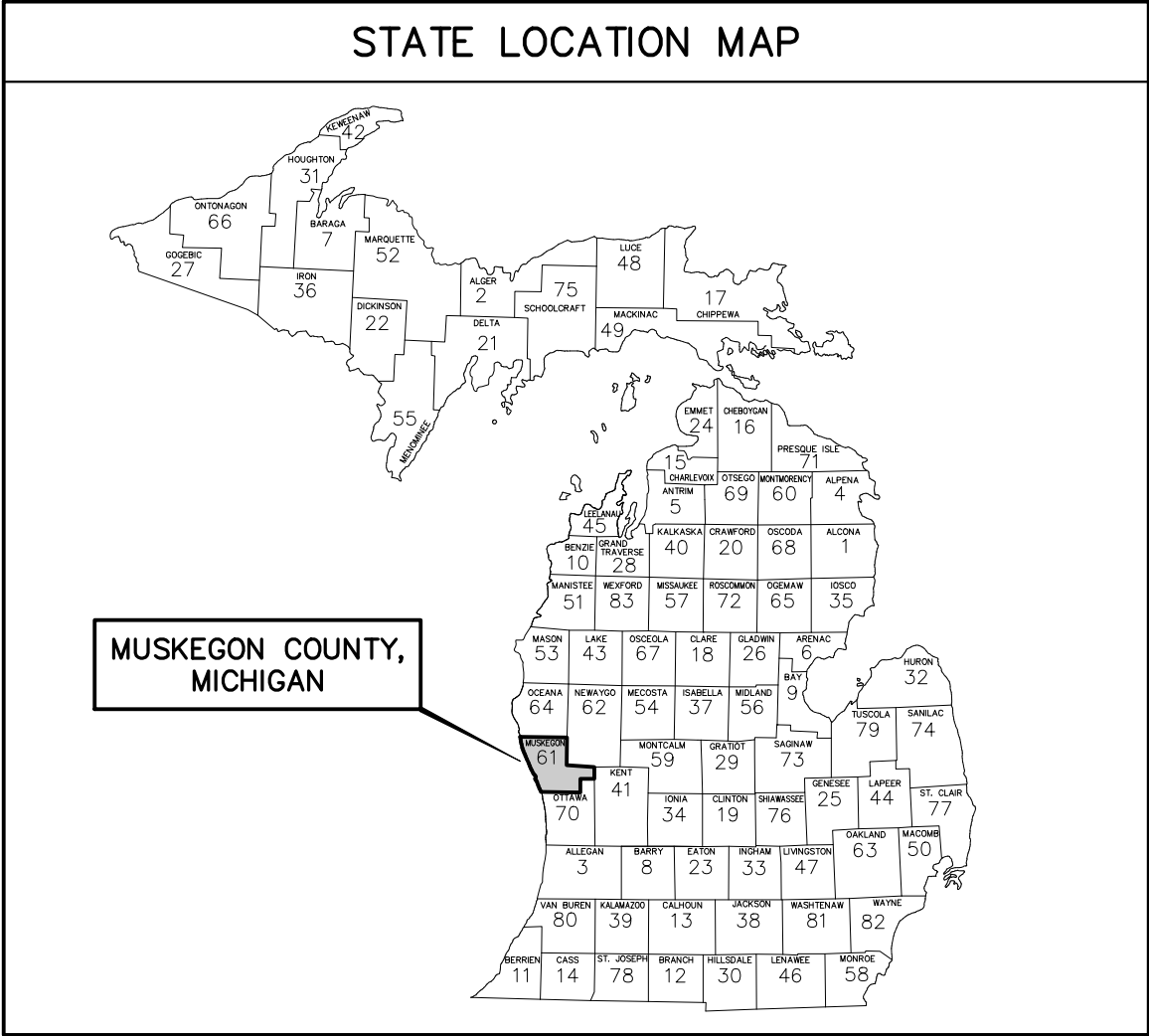
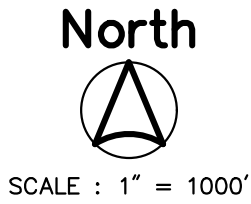
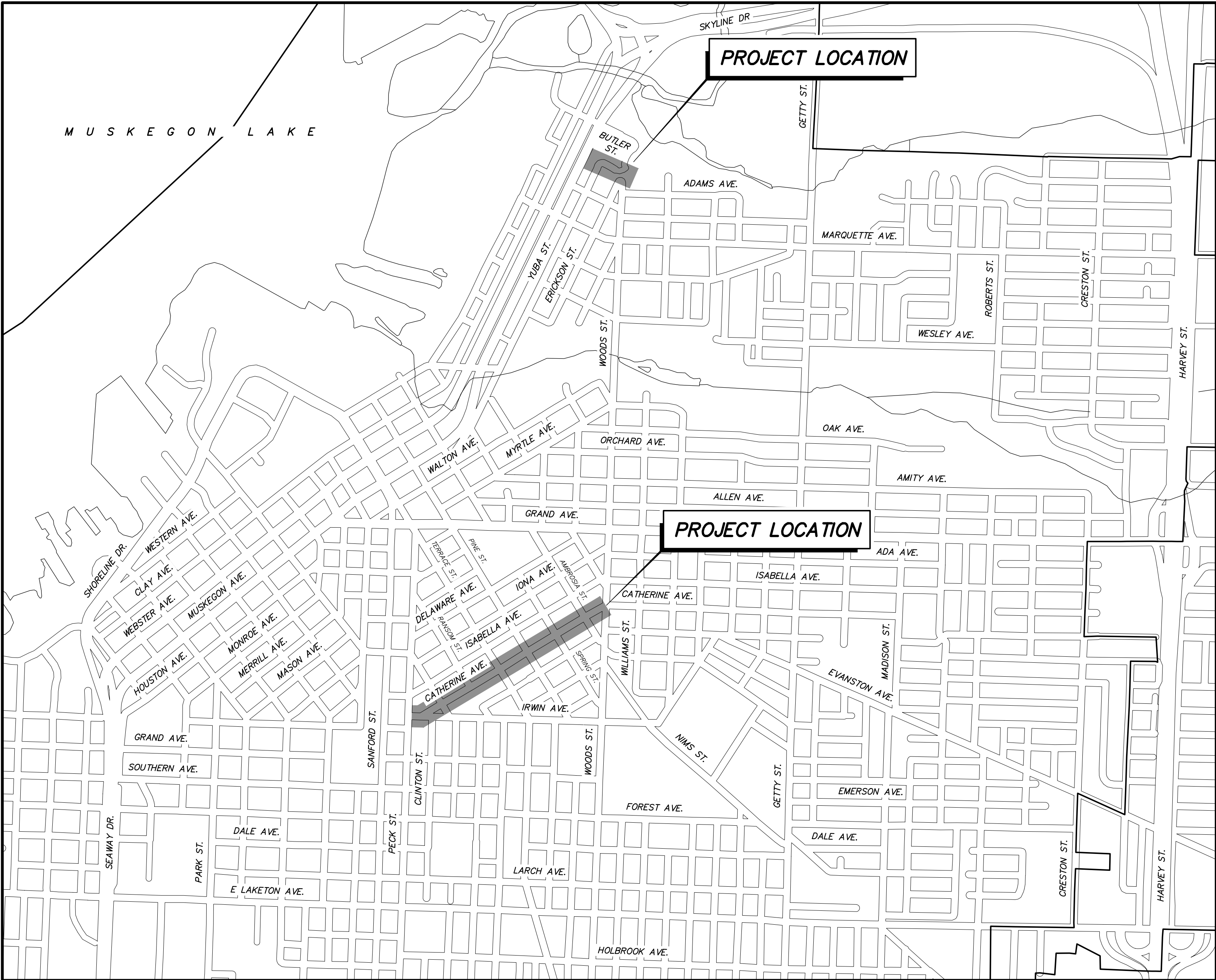
DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS	R-29-J*
CONCRETE CURB AND CONCRETE CURB & GUTTER	R-30-G
UTILITY TRENCHES	R-83-C
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E

* SPECIAL DETAIL

UTILITIES

ELECTRIC-DISTRIBUTION CONSUMERS ENERGY 700 E STERNBERG ROAD NORTON SHORES, MI 49441 PHONE : (231) 332-2682 ATTN : JOEL BROWN	STORM SEWER CITY OF MUSKEGON 1350 E. KEATING AVENUE MUSKEGON, MI 49442 PHONE : (231) 724-6992 ATTN : VERNON BERNDT Vern.Berndt@shorelinecity.com
GAS DTE ENERGY 2359 OLTHOF DRIVE MUSKEGON, MI, 49444 PHONE : (231) 726-0943 ATTN : ANTHONY FERRIER	COMMUNICATION FRONTIER COMMUNICATIONS 860 TERRACE STREET MUSKEGON, MI 49443 PHONE : (231) 740-4279 ATTN : MIKE THOMPSON
WATER & SANITARY CITY OF MUSKEGON 1350 E. KEATING AVENUE MUSKEGON, MI 49442 PHONE : (231) 724-4184 ATTN : JOE BUTHKER Joe.Buthker@shorelinecity.com	CABLE TELEVISION COMCAST 700 W. BROADWAY MUSKEGON, MI 49441 PHONE : (231) 726-0862 ATTN : JASON BROWN

UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.



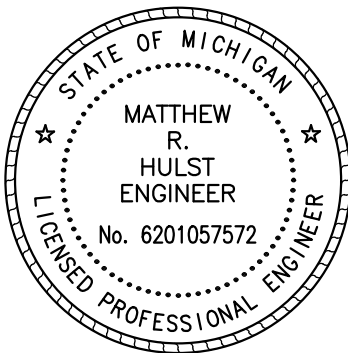
SHEET INDEX	
SHEET No.	DESCRIPTION
1	COVER SHEET
2	MAINTENANCE OF TRAFFIC
3	TYPICAL CROSS SECTIONS AND DETAILS
4	WATERMAIN: BUTLER STREET
5	REMOVAL PLAN: CATHERINE AVENUE
6	REMOVAL PLAN: CATHERINE AVENUE
7	IMPROVEMENTS: IRWIN AVE.
8	SANITARY SEWER & WATERMAIN: CATHERINE AVE. (IRWIN AVE. TO STA. 17+00)
9	SANITARY SEWER & WATERMAIN: CATHERINE AVE. (STA 17+00 TO STA 25+00)
10	SANITARY SEWER & WATERMAIN: CATHERINE AVE. (STA 25+00 TO STA 33+00)
11	SANITARY SEWER & WATERMAIN: CATHERINE AVE. (STA 33+00 TO WOOD ST.)
12	SANITARY SEWER & WATERMAIN: UTILITY TIE-INS
13	STREET IMPROVEMENTS: CATHERINE AVE. (IRWIN AVE. TO STA. 17+00)
14	STREET IMPROVEMENTS: CATHERINE AVE. (STA. 17+00 TO STA. 25+00)
15	STREET IMPROVEMENTS: CATHERINE AVE. (STA. 25+00 TO STA. 33+00)
16	STREET IMPROVEMENTS: CATHERINE AVE. (STA. 33+00 TO WOOD ST.)
17	GRADING DETAILS: IRWIN AVENUE
18	GRADING DETAILS: CATHERINE AVE. (IRWIN AVE. TO STA. 20+00)
19	GRADING DETAILS: CATHERINE AVE. (STA. 20+00 TO STA. 30+00)
20	GRADING DETAILS: CATHERINE AVE. (STA. 30+00 TO WOOD ST.)
21	SIDEWALK RAMP DETAILS
22	SIDEWALK RAMP DETAILS

BUTLER PROJECT DATUM INFORMATION

COORDINATE SYSTEM : STATE PLANE GRID
ZONE : MICHIGAN SOUTH 2113
ELLIPSOID : GRS 80
HORIZONTAL DATUM : NAD 83 (2011)
VERTICAL DATUM : NAVD 88
GEIOD : 18
UNITS : INTERNATIONAL FEET
PROJECT COMBINED SCALE FACTOR (PCSF) = 0.999926916195
GROUND DISTANCE = GRID DISTANCE/PCSF

CATHERINE PROJECT DATUM INFORMATION

COORDINATE SYSTEM : STATE PLANE GRID
ZONE : MICHIGAN SOUTH 2113
ELLIPSOID : GRS 80
HORIZONTAL DATUM : NAD 83 (2011)
VERTICAL DATUM : NAVD 88
GEIOD : 18
UNITS : INTERNATIONAL FEET
PROJECT COMBINED SCALE FACTOR (PCSF) = 0.999924885548
GROUND DISTANCE = GRID DISTANCE/PCSF

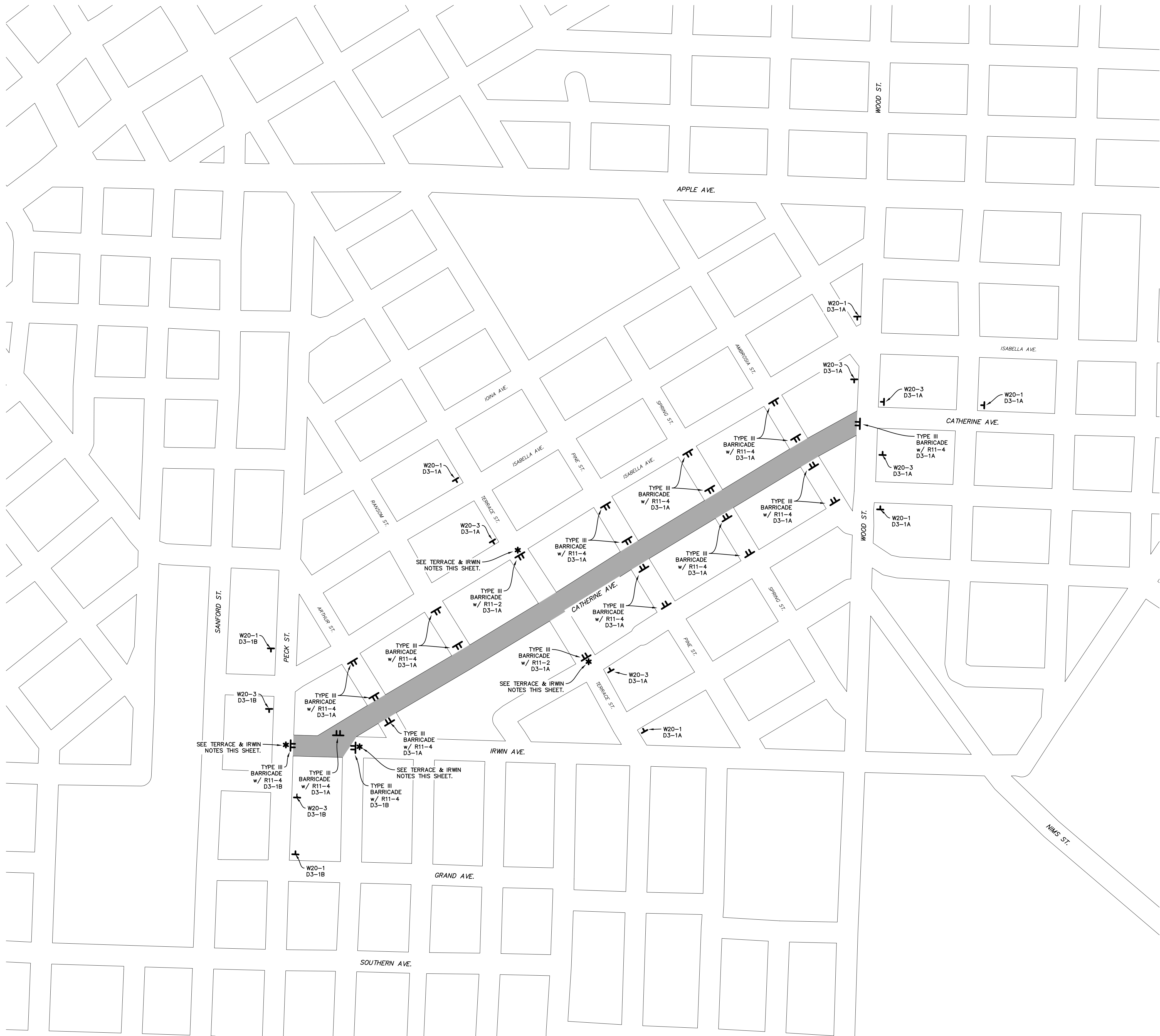


ISSUED FOR BIDS MAY, 2025

PROJECT NO.
2240838

SHEET NO.
1 OF 22

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LEGEND

- TYPE III BARRICADE, HIGH INTENSITY
- CONSTRUCTION SIGN

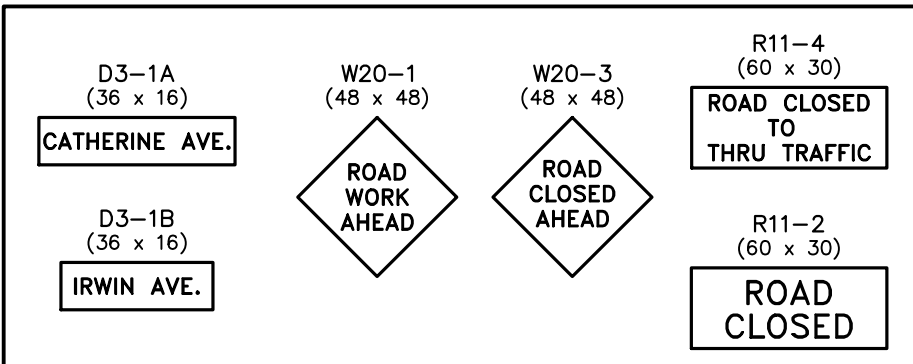
GENERAL NOTES

- THE CONTRACTOR SHALL ERECT ALL DETOUR SIGNS, BARRICADES, AND PLASTIC DRUMS IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (REVISED 2011).
- THE CONTRACTOR SHALL STAKE PROPOSED LOCATIONS (WHITE FLAGGING) AND CALL MISS DIG PRIOR TO PLACING ANY GROUND DRIVEN SIGNS.

TERRACE & IRWIN NOTES

- TERRACE STREET TO REMAIN OPEN THROUGHOUT PROJECT EXCEPT DURING PAVING OPERATIONS. WORK WITHIN INTERSECTION TO BE COMPLETED WITH TRAFFIC REGULATORS.
- WORK WITHIN IRWIN STREET MUST BE LIMITED TO 30 DAYS. THIS WORK MAY BE COMPLETED AT ANYTIME DURING THE PROJECT. ALL WORK MUST BE COMPLETED WITHIN THE 30 DAYS INCLUDING FINAL PAVING OF HMA. FOLLOWING COMPLETION THE ROAD CLOSURE SIGNAGE MUST BE REMOVED.

SIGN LEGEND



NOTE : SIGN DIMENSIONS IN INCHES.

LIST OF SIGNS

ITEM	DESCRIPTION	SIZE	QUANTITY	TOTAL
D3-1A	CATHERINE AVE.	36 INCH X 16 INCH	31	124 SFT
D3-1B	IRWIN AVE.	36 INCH X 16 INCH	6	24 SFT
R11-2	ROAD CLOSED	60 INCH X 30 INCH	2	25 SFT
R11-4	ROAD CLOSED TO THRU TRAFFIC	60 INCH X 30 INCH	21	262.5 SFT
W20-1	ROAD WORK AHEAD	48 INCH X 48 INCH	7	112 SFT
W20-3	ROAD CLOSED AHEAD	48 INCH X 48 INCH	7	112 SFT
			TOTAL	659.5 SFT

SHEET QUANTITIES

BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN	23	EA
BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, OPER	23	EA
SIGN, TYPE B, TEMP, PRISMATIC, FURN	511.5	SFT
SIGN, TYPE B, TEMP, PRISMATIC, OPER	511.5	SFT
SIGN, TYPE B, TEMP, PRISMATIC, SPEC, FURN	148	SFT
SIGN, TYPE B, TEMP, PRISMATIC, SPEC, OPER	148	SFT

MAINTENANCE OF TRAFFIC PLAN

SCALE : 1" = 250'



NO.	REVISIONS	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE: FEB. '25
				CHECKED: M.R.H.
				DATE: MAY '25

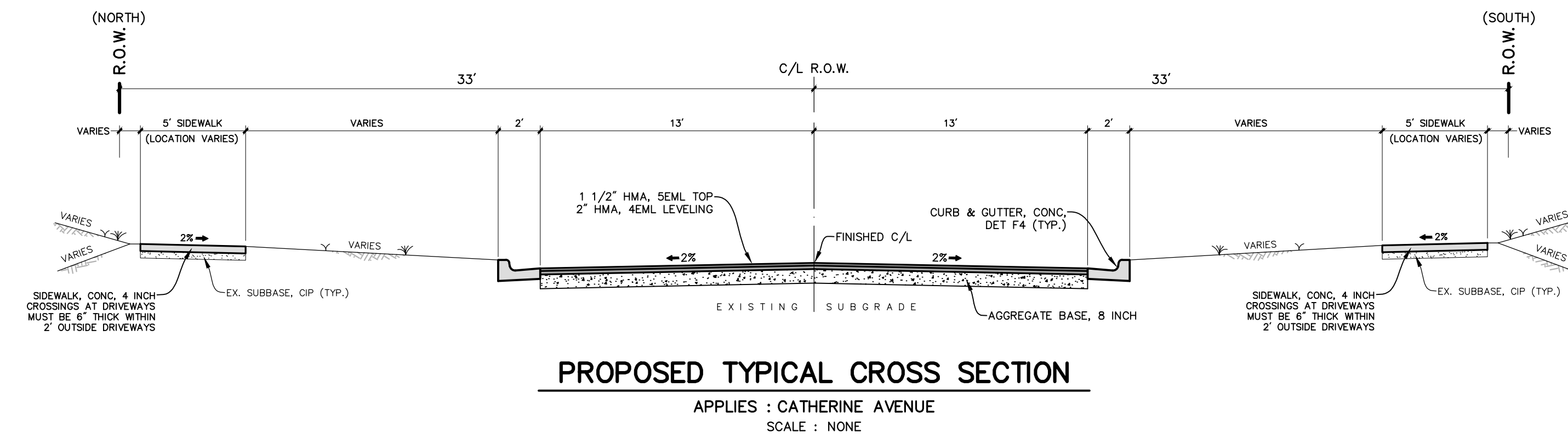
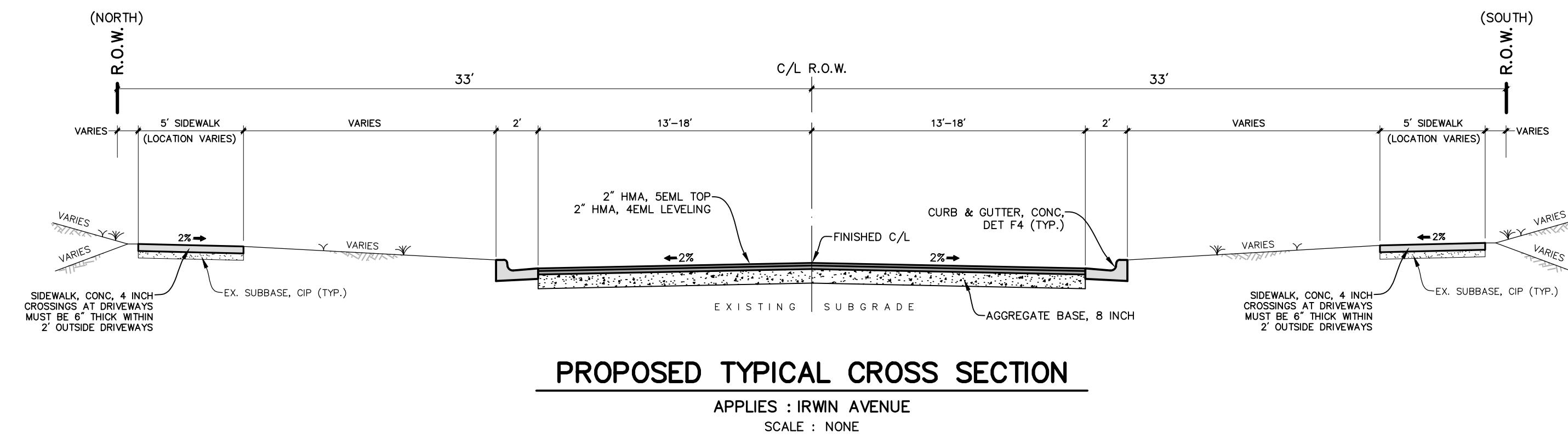
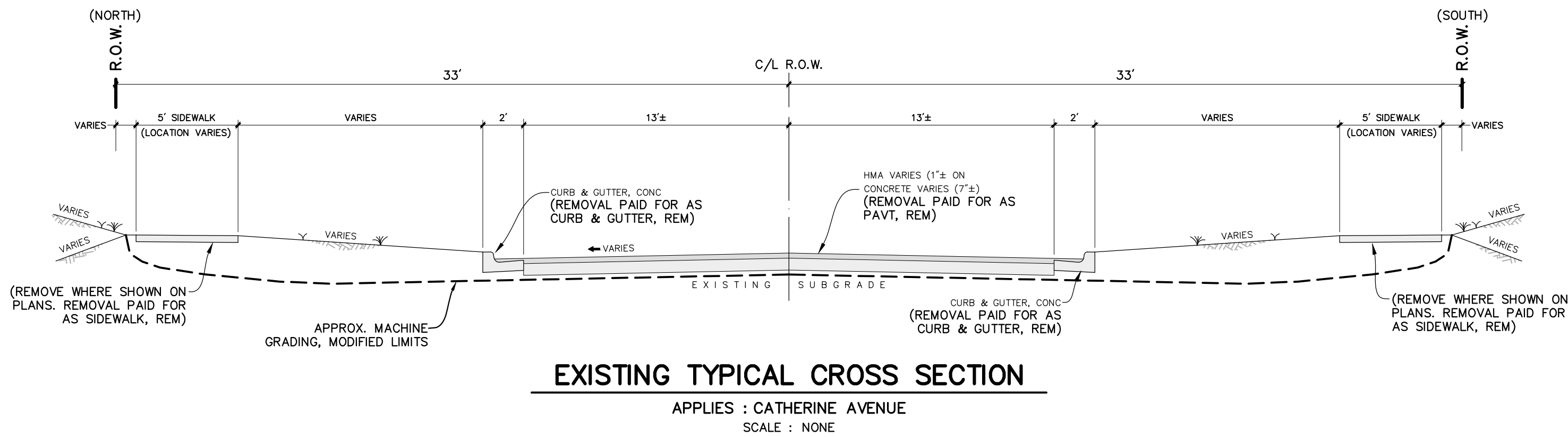
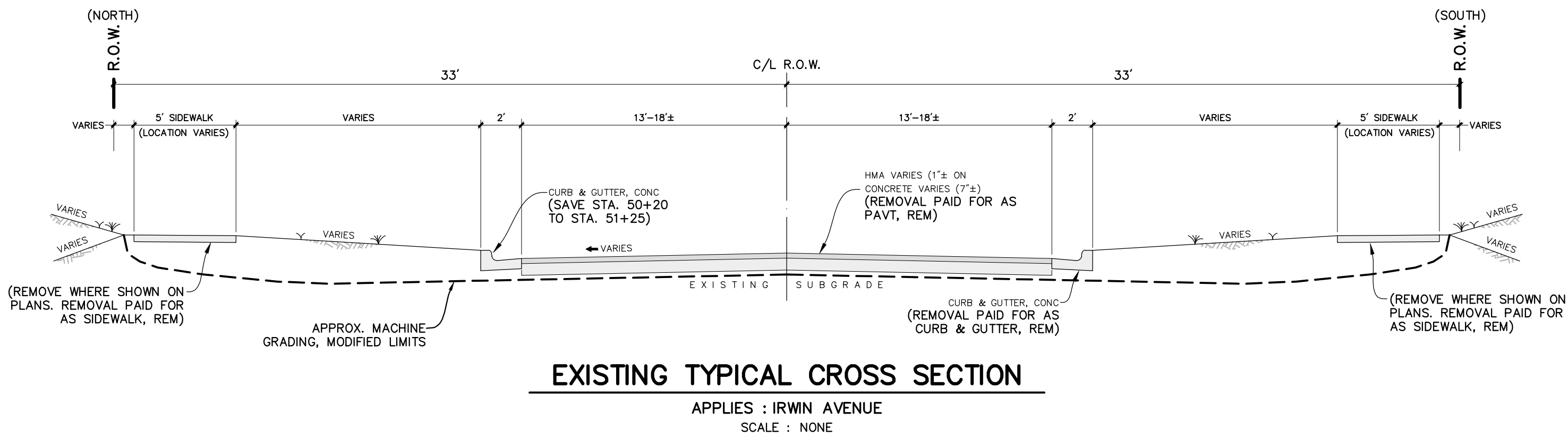
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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
STREET IMPROVEMENTS
MAINTENANCE OF TRAFFIC

PROJECT NO.
2240838

SHEET NO.

2 OF 22



HOT MIX ASPHALT APPLICATION TABLE

IDENT. #	PAY ITEM	MIXTURE	APPLICATION RATE	PERFORMANCE GRADE BINDER	REMARKS
HMA, 4EML	HMA, 4EML	HMA, 4EML	220 LBS/SYD	PG 64-28	CATHERINE/IRWIN LEVELING
HMA, 5EML	HMA, 5EML	HMA, 5EML	165 LBS/SYD	PG 64-28	CATHERINE TOP
HMA, 5EML	HMA, 5EML	HMA, 5EML	165 LBS/SYD	PG 64-28	IRWIN TOP

NOTE :
HMA BOND COAT (MDOT SS-1h) SHALL BE APPLIED @ 0.05-0.15 GAL/SYD BETWEEN HMA LIFTS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE HMA ITEMS. HMA BOND COAT SHALL ALSO BE APPLIED TO THE VERTICAL EDGE OF THE ADJACENT HMA PAVEMENT AND/OR CONCRETE CURB & GUTTER.

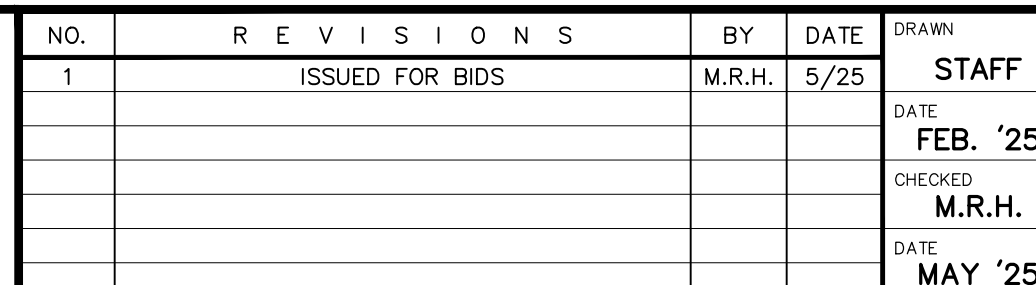
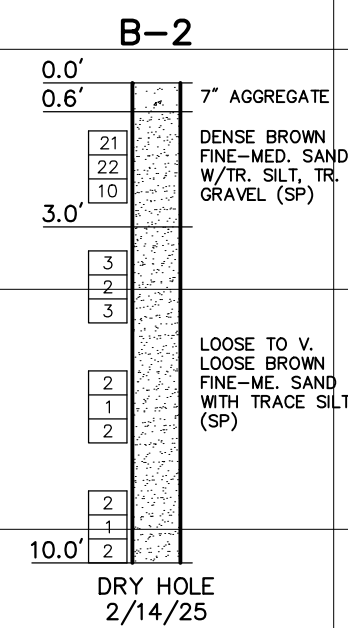
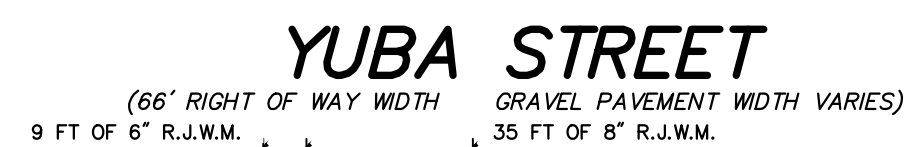
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NO.	R E V I S I O N S	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE FEB. '25
				CHECKED M.R.H.
				DATE MAY '25

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
STREET IMPROVEMENTS
TYPICAL CROSS SECTIONS & DETAILS

PROJECT NO.
2240838
SHEET NO.
3 OF 22



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

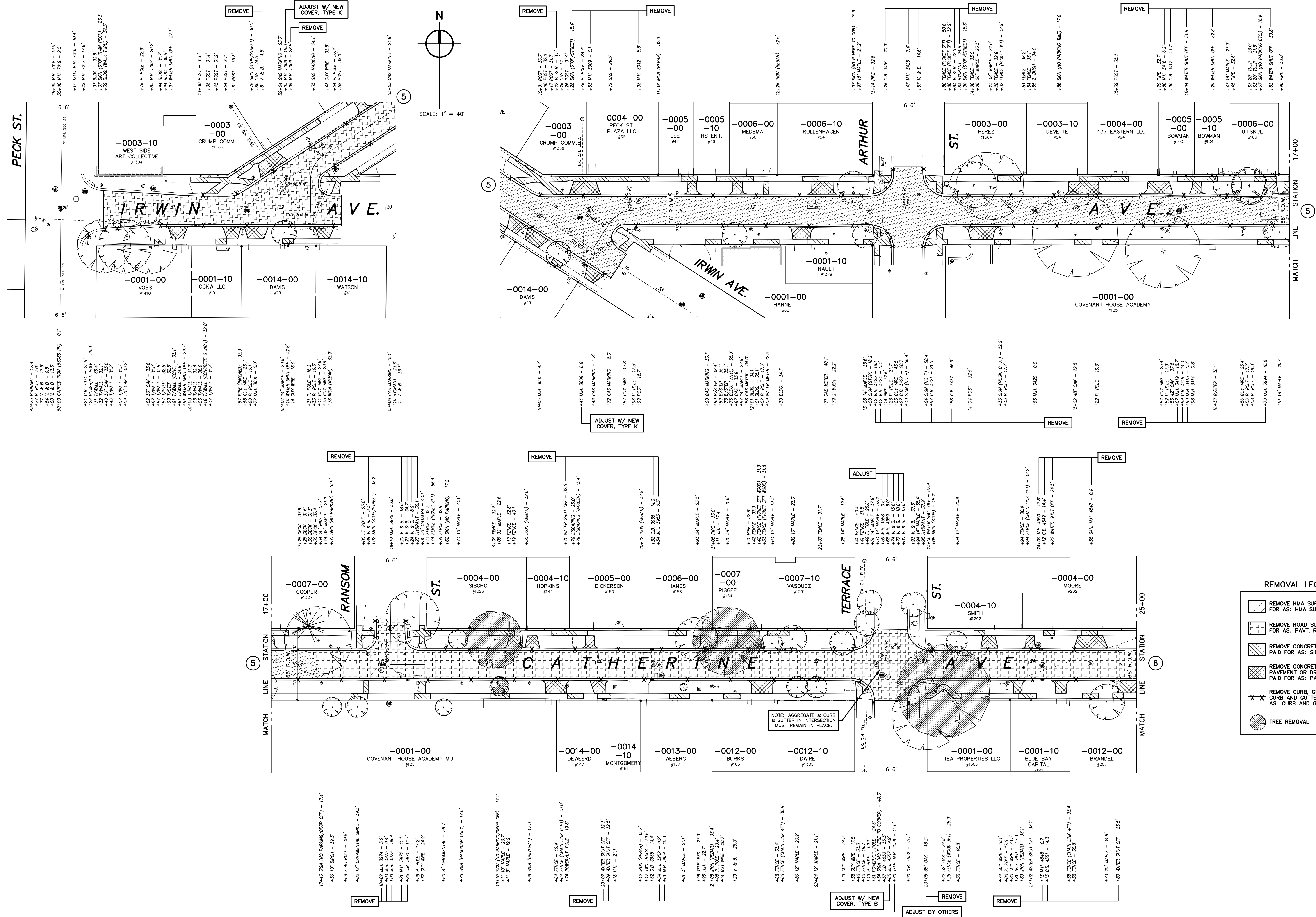
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

WATER SYSTEM IMPROVEMENTS

YUBA ST. & BUTLER ST.

SHEET NO.

4 OF 22



NO.		R E V I S I O N S		BY	DATE	BRANN
1		ISSUED FOR BIDS		M.R.H.	5/25	STAFF
						DATE FEB. '25
						CHECKED M.R.H.
						DATE MAY '25

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

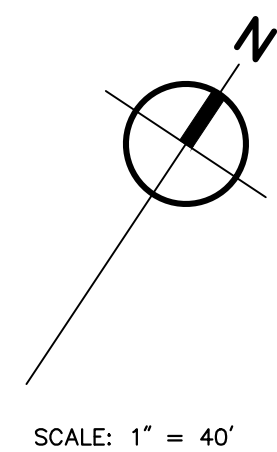
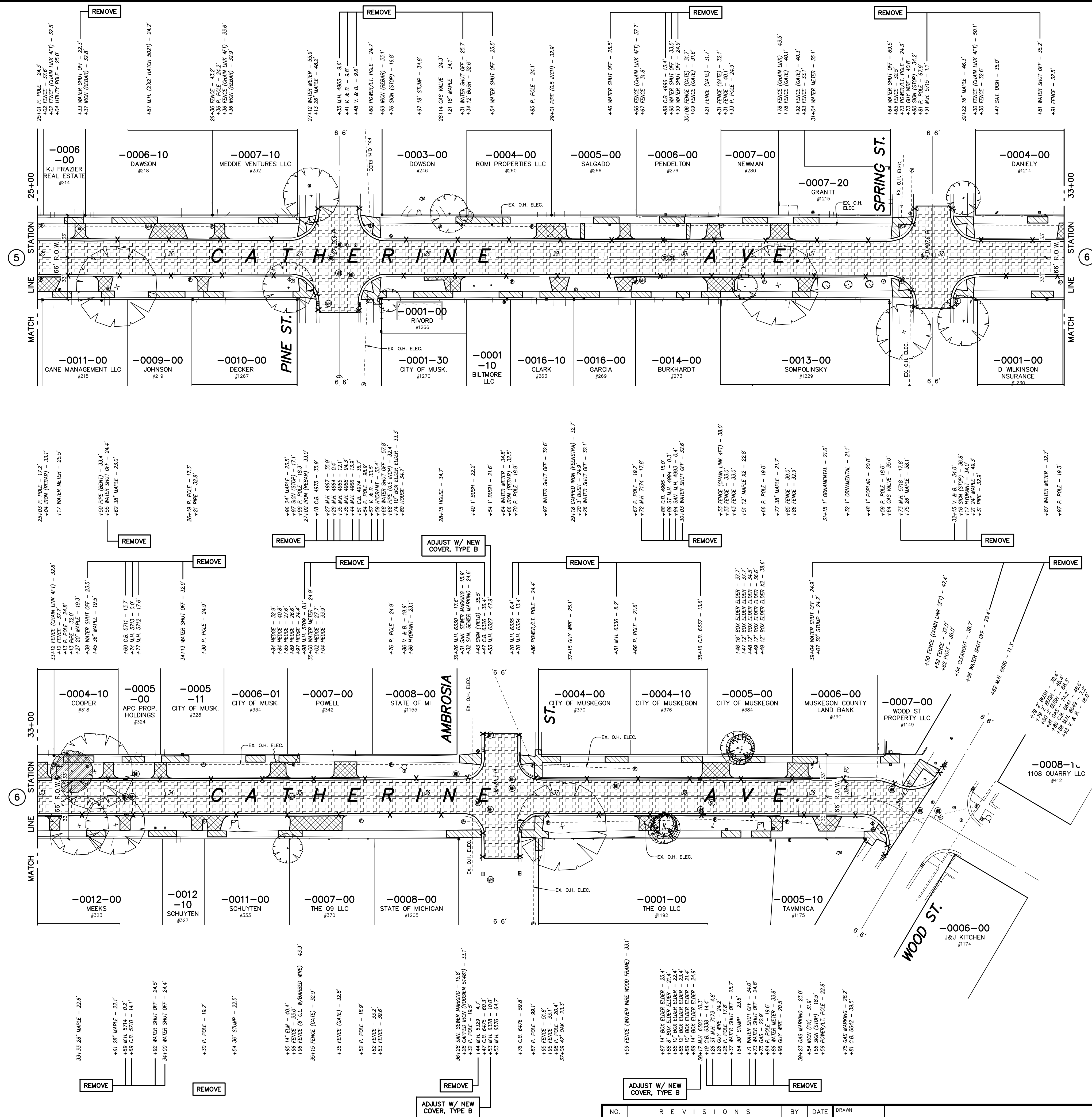
REMOVAL PLANS

IRWIN AVE. & CATHERINE AVE.

PROJECT NO.
2240838

SHEET NO.

5 OF 22



NO.	R E V I S I O N S	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE FEB. '25
				CHECKED M.R.H.
				DATE MAY '25

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

REMOVAL PLANS

CATHERINE AVENUE

PROJECT NO.
2240838

SHEET NO.
6 OF 22

CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
300	634948.65	12623128.26	621.19

 PROPOSED HMA SURFACE
 PROPOSED DRIVEWAY,
 NONREINF CONC, 6 INCH OR
 SIDEWALK, CONC, 4/6 INCH
 CONC PAVT, NONREINF, 8 INCH

[

PECK ST.

CLINTON ST

CITY OF MOSKOGON REVISED PLAN OF 1900 (X)

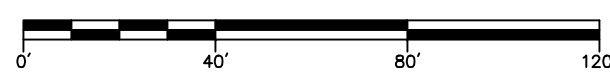
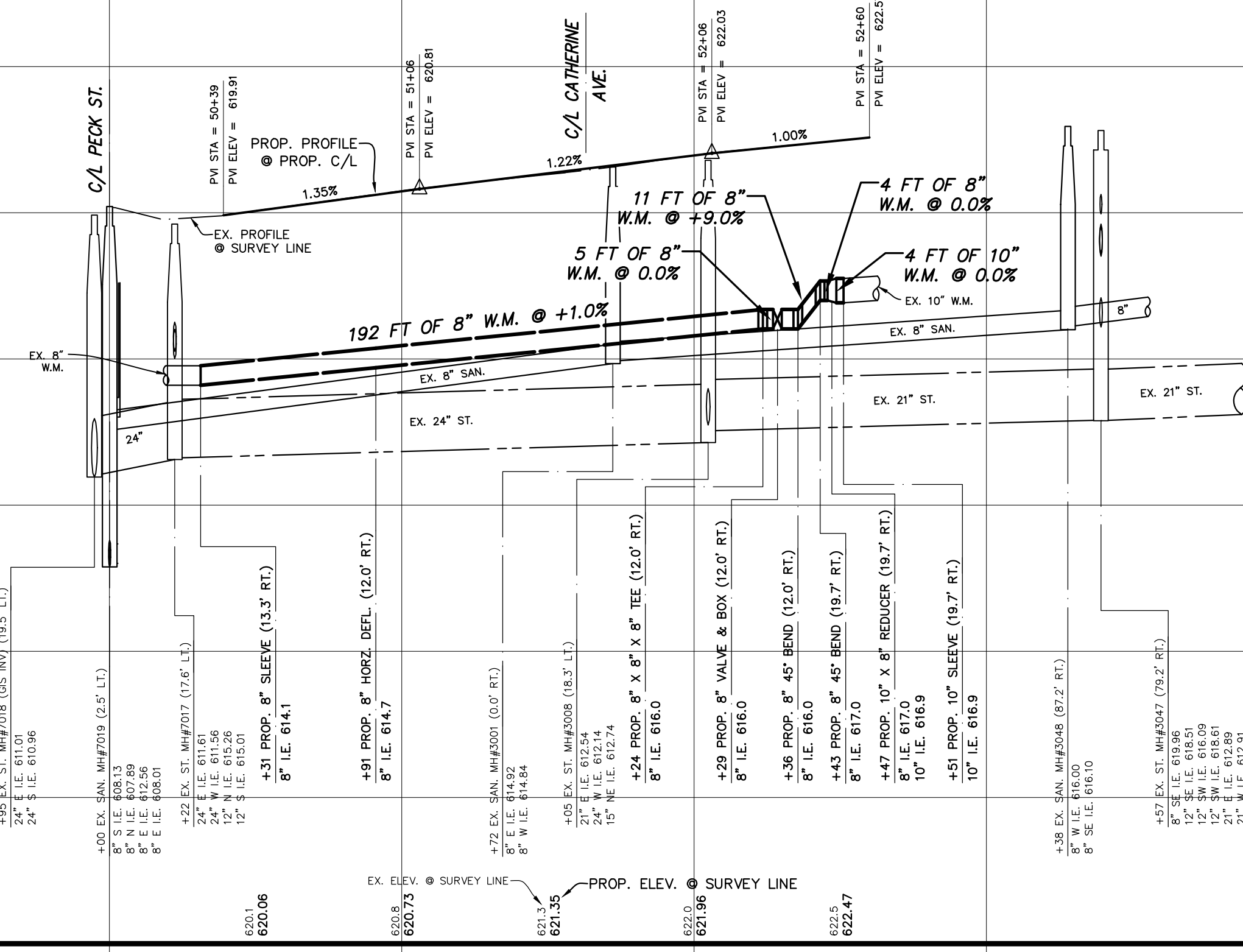
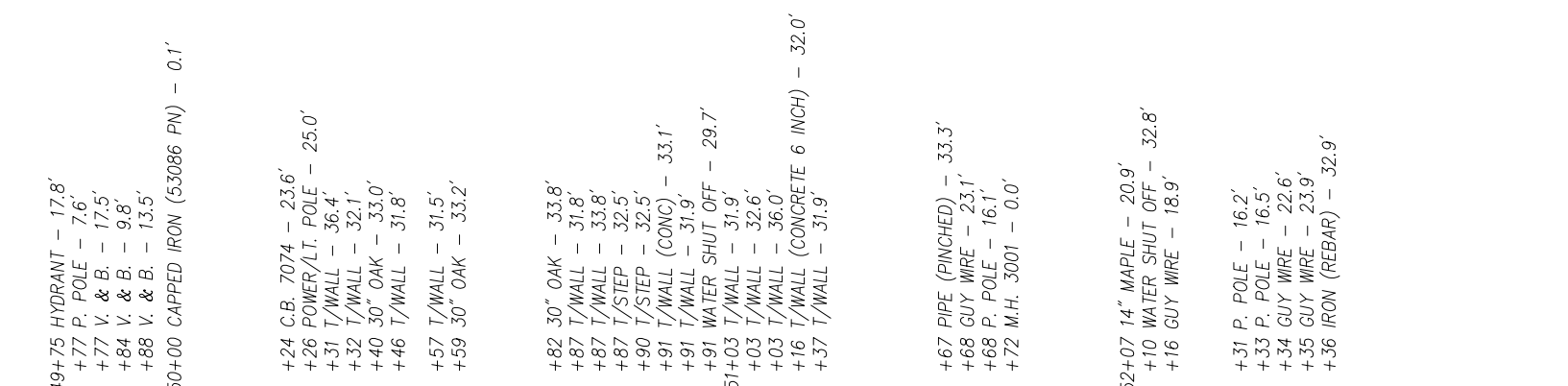
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INFORMATION ONLY. SEE REMOVAL
PLANS FOR ACTION ITEMS.

1. CONTRACTOR MUST PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
2. USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3' +/- FROM FINISHED GRADE. COST MUST BE INCLUDED IN THE HYDRANT PAY ITEM.
3. SHADED WATER MAIN INDICATES RESTRAINED JOINT WATER MAIN.
4. ALL HYDRANTS MUST BE RESTRAINED TO THE TEE.

1. WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. CONTRACTOR SHALL EXCAVATE AND LOCATE THE EXISTING WATER STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
2. WATER SERVICES ARE TO BE REPLACED TO THE WATER METER IF THE METER IS LOCATED INSIDE THE RESIDENCE UNLESS NOTED OTHERWISE. IF THE WATER METER IS LOCATED 18 INCHES OR MORE INSIDE THE RESIDENCE IF THE METER IS LOCATED OUTSIDE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRENCHES REQUIRED TO CONNECT TO THE EXISTING METER MUST BE APPROVED BY THE HOME OWNER AND ENGINEER PRIOR TO INSTALLATION. A NEW WATER METER MUST BE INSTALLED AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND TO OBTAIN THE PROPERTY OWNER AND RESIDENT FOR ENTRY INTO THE RESIDENCE.
3. IF THE WATER SERVICE METER IS LOCATED IN A PIT OUTSIDE THE HOUSE, THE CONTRACTOR SHALL ATTEMPT TO RELOCATE THE METER INTO THE RESIDENCE. RELOCATION MUST BE COORDINATED WITH THE CITY OF GAITHERSBURG AND THE PROPERTY OWNER.
4. CONTRACTOR TO COORDINATE WITH THE CITY FOR WATER REMOVAL AND REINSTALLATION.

WATER SERVICE, CORPORATION STOP, 1"	4 EA
WATER SERVICE, CURB STOP AND BOX, 1"	4 EA
WATER SERVICE, 1"	350 FT
WATER SERVICE, CONNECT TO EX.	4 EA
WATER SERVICE, RESTORATION, PRIVATE	4 EA

(66' RIGHT OF WAY WIDTH ASPHALT PAVEMENT WIDTH VARIES)

[illegible]

SCALES : 1" = 40' HORIZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	R E V I S I O N S	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE
				FEB. '2
				CHECKED
				M.R.H.
				DATE
				MAY '2

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

WATER SYSTEM IMPROVEMENTS

IRWIN AVENUE

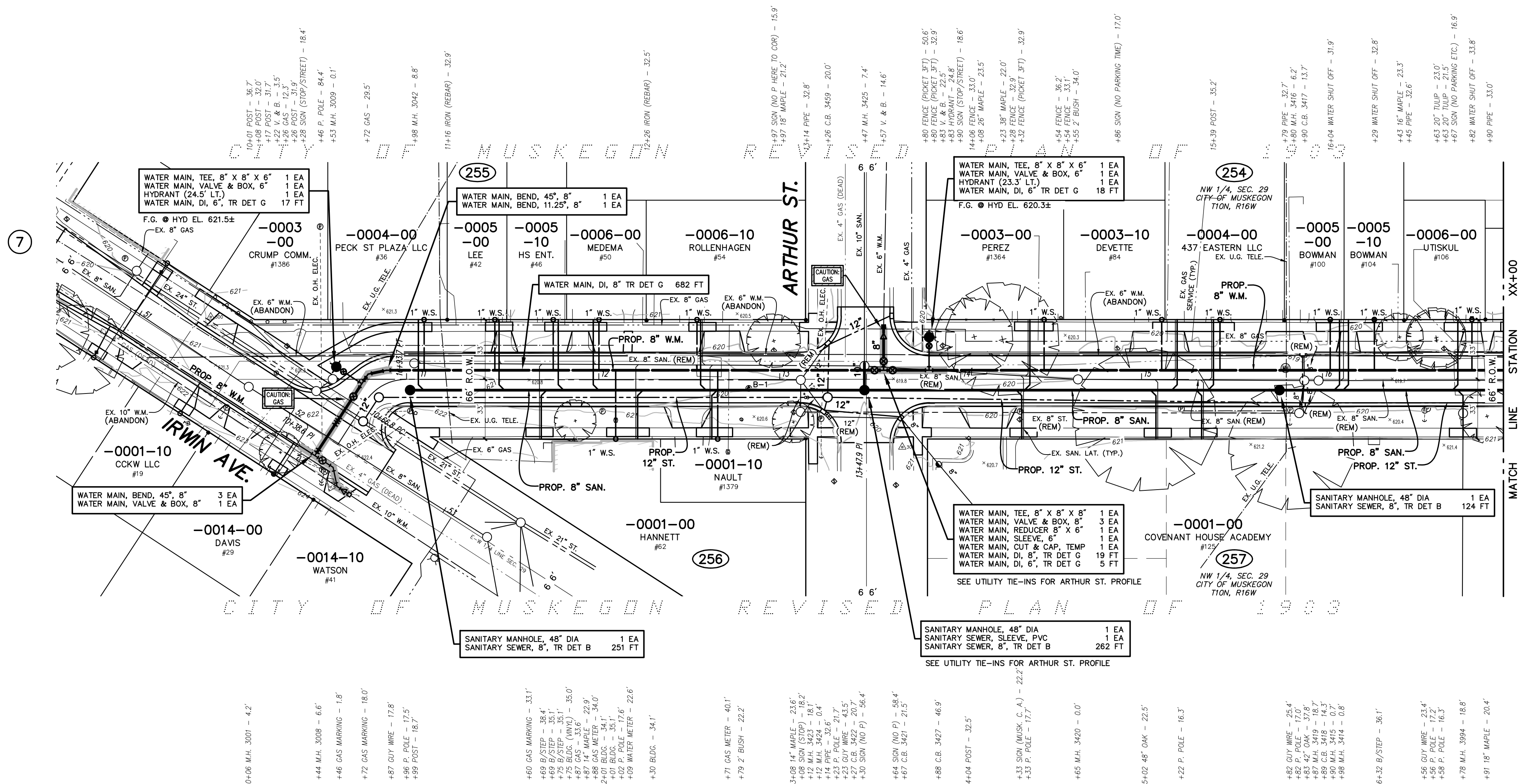
PROJECT NO.
2240838

7 OF 22

B.M. EL. 623.78
HOUSE 19 IRWIN 45'± SOUTH OF C/L
IRWIN OPP. EASTERLY CURB OF CATHERINE
ST EXT. TOP OF NE CORNER OF BOTTOM
CONCRETE STEP TO PORCH
(0.55 A/WALK)

CONTROL POINT TABLE		
POINT No.	NORTHING	EASTING
300	634948.65	12623128.26
301	635085.88	12623492.16

WATER SERVICE INFORMATION				
ADDRESS	FULL REPLACEMENT	PRIVATE SIDE REPLACEMENT ONLY	PUBLIC SIDE REPLACEMENT ONLY	WATER SERVICE, 1" (FT)
62 IRWIN	X			64
1379 ARTHUR			X	28
36 CATHERINE			X	38
42 CATHERINE	X			80
46 CATHERINE	X			80
50 CATHERINE	X			80
54 CATHERINE	X			80
1364 ARTHUR	X			80
84 CATHERINE	X			80
94 CATHERINE	X			80
100 CATHERINE	X			100
104 CATHERINE	X			100
106 CATHERINE	X			100



TOPOGRAPHY TEXT NOTE
TOPOGRAPHY TEXT SHOWN FOR
INFORMATION ONLY. SEE REMOVAL
PLANS FOR ACTION ITEMS.

SANITARY SEWER CONSTRUCTION NOTES

- ALIGNMENT & LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS. EXACT LOCATION IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYES.
- SANITARY SEWER LATERALS MUST BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING LATERAL.

WATER MAIN CONSTRUCTION NOTES

- CONTRACTOR MUST PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
- USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3"± FROM FINISHED GRADE. COST MUST BE INCLUDED IN THE HYDRANT PAY ITEM.
- SHADED WATER MAIN INDICATES RESTRAINED JOINT WATER MAIN.
- ALL HYDRANTS MUST BE RESTRAINED TO THE TEE.

WATER SERVICE CONSTRUCTION NOTES

- WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. ALIGNMENT OF EXISTING WATER SERVICES FROM THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
- WATER SERVICES ARE TO BE REPLACED TO THE WATER METER IF THE METER IS LOCATED INSIDE THE RESIDENCE UNLESS NOTED OTHERWISE. WATER SERVICES TO BE REPLACED TO 18 INCHES INSIDE THE RESIDENCES IF THE METER IS LOCATED OUTSIDE. LOCATION OF ENTRY INTO THE RESIDENCE, AND PLUMBING REQUIRED TO CONNECT TO THE EXISTING METER MUST BE APPROVED BY THE HOME OWNER AND ENGINEER PRIOR TO INSTALLATION. A NEW CURB STOP MUST BE INSTALLED AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND COMMUNICATE WITH THE PROPERTY OWNER AND RESIDENT FOR ENTRY INTO THE RESIDENCE.
- IF THE WATER SERVICE METER IS LOCATED IN A PIT OUTSIDE THE HOUSE, THE CONTRACTOR SHALL ATTEMPT TO RELOCATE THE METER INTO THE RESIDENCE. RELOCATION MUST BE COORDINATED WITH THE CITY AND THE PROPERTY OWNER.
- CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

SANITARY LATERAL TOTALS (THIS SHEET)

SANITARY SEWER, WYE, 8" x 6"	18 EA
SANITARY LATERAL, 6"	640 FT
SANITARY LATERAL, CONNECTION TO EX.	18 EA

WATER SERVICE TOTALS (THIS SHEET)

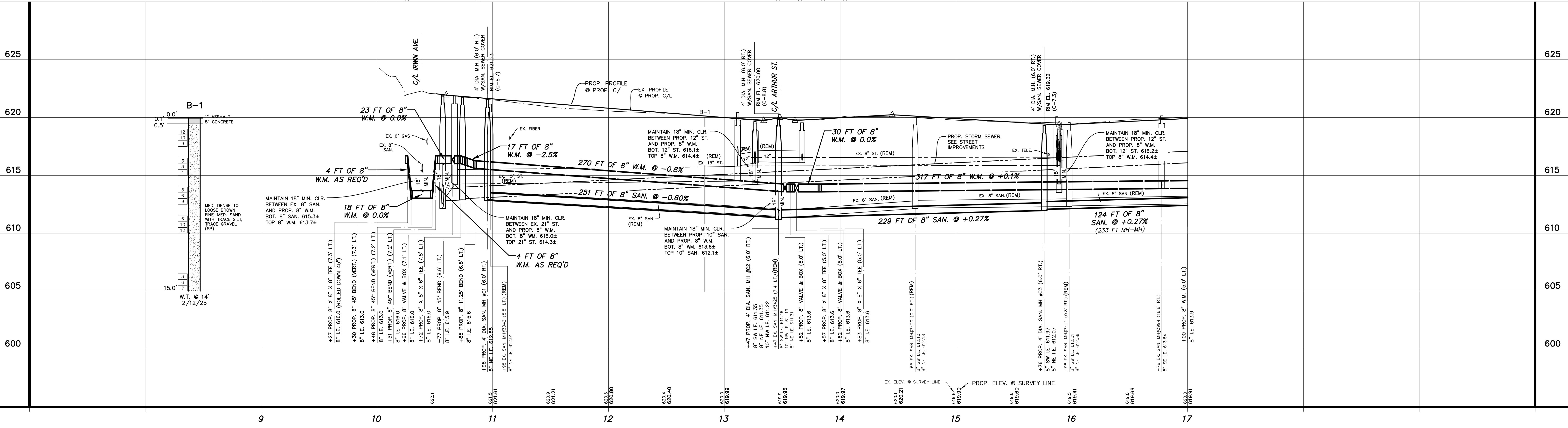
WATER SERVICE, CORPORATION STOP, 1"	13 EA
WATER SERVICE, CURB STOP AND BOX, 1"	13 EA
WATER SERVICE, 1"	990 FT
WATER SERVICE, CONNECT TO EX.	12 EA
WATER SERVICE, RESTORATION, PRIVATE	13 EA

CATHERINE AVENUE

(66' RIGHT OF WAY WIDTH ASPHALT PAVEMENT WIDTH VARIES)

20 FT OF 8" R.J.W.M.

20 FT OF 8" R.J.W.M.



0' 40' 80' 120'
1" = 40' HORIZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	REVISIONS	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE
				FEB. '25
				CHECKED
				M.R.H.
				DATE
				MAY '25

Prein & Newhof
Engineers-Surveyors-Environmental-Laboratory

CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

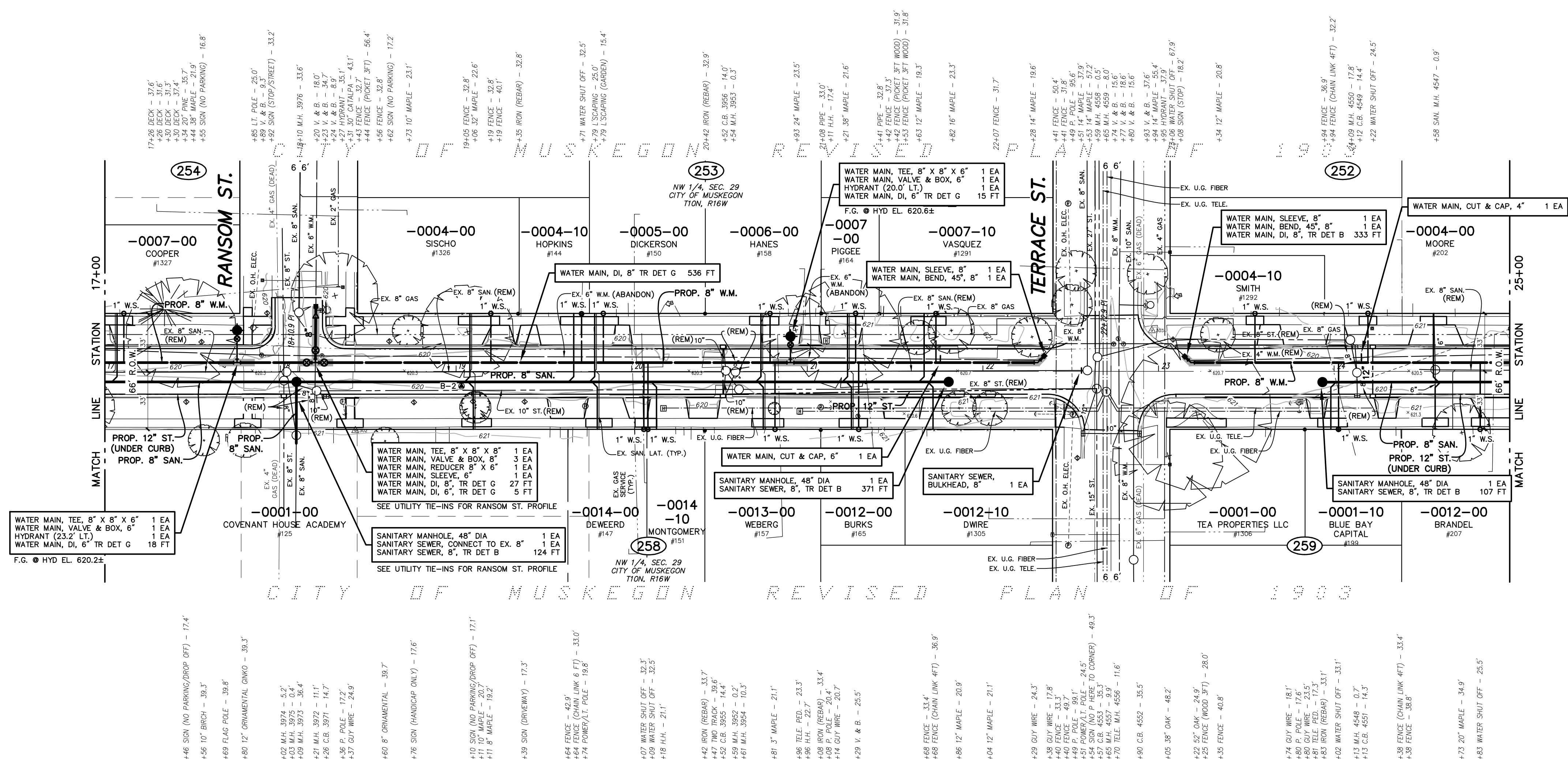
SANITARY SEWER & WATERMAIN

CATHERINE AVENUE

PROJECT NO.
2240838
SHEET NO.
8 OF 22

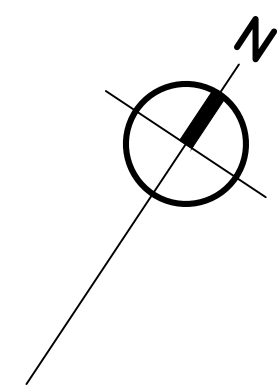
CONTROL POINT TABLE			
POINT No.	NORTHING	EASTING	ELEVATION
302	635335.93	12623895.97	621.00
303	635620.28	12624253.84	620.99

WATER SERVICE INFORMATION				
ADDRESS	FULL REPLACEMENT	PRIVATE SIDE REPLACEMENT ONLY	PUBLIC SIDE REPLACEMENT ONLY	WATERS SERVICE, 1" (FT)
147 CATHERINE			X	40
151 CATHERINE	X			90
157 CATHERINE	X			90
165 CATHERINE	X			90
1305 TERRACE		X		70
1306 TERRACE		X		60
199 CATHERINE	X			90
207 CATHERINE	X			80
1327 RANSOM	X			130
1326 RANSOM	X			130
144 CATHERINE	X			80
150 CATHERINE	X			80
158 CATHERINE	X			80
164 CATHERINE	X			80
1291 TERRACE	X			80
1292 TERRACE		X		50
202 CATHERINE	X			90



TOPOGRAPHY TEXT NOTE

TOPOGRAPHY TEXT SHOWN FOR INFORMATION ONLY. SEE REMOVAL PLANS FOR ACTION ITEMS.



SANITARY SEWER CONSTRUCTION NOTES

1. ALIGNMENT & LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS. EXACT LOCATION IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYES.
2. SANITARY SEWER LATERALS MUST BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING LATERAL.

WATER MAIN CONSTRUCTION NOTES

1. CONTRACTOR MUST PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
2. USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3' +/- FROM FINISHED GRADE. COST MUST BE INCLUDED IN THE HYDRANT PAY ITEM.
3. SHADED WATER MAIN INDICATES RESTRAINED JOINT WATER MAIN.
4. ALL HYDRANTS MUST BE RESTRAINED TO THE TEE.

WATER SERVICE CONSTRUCTION NOTES

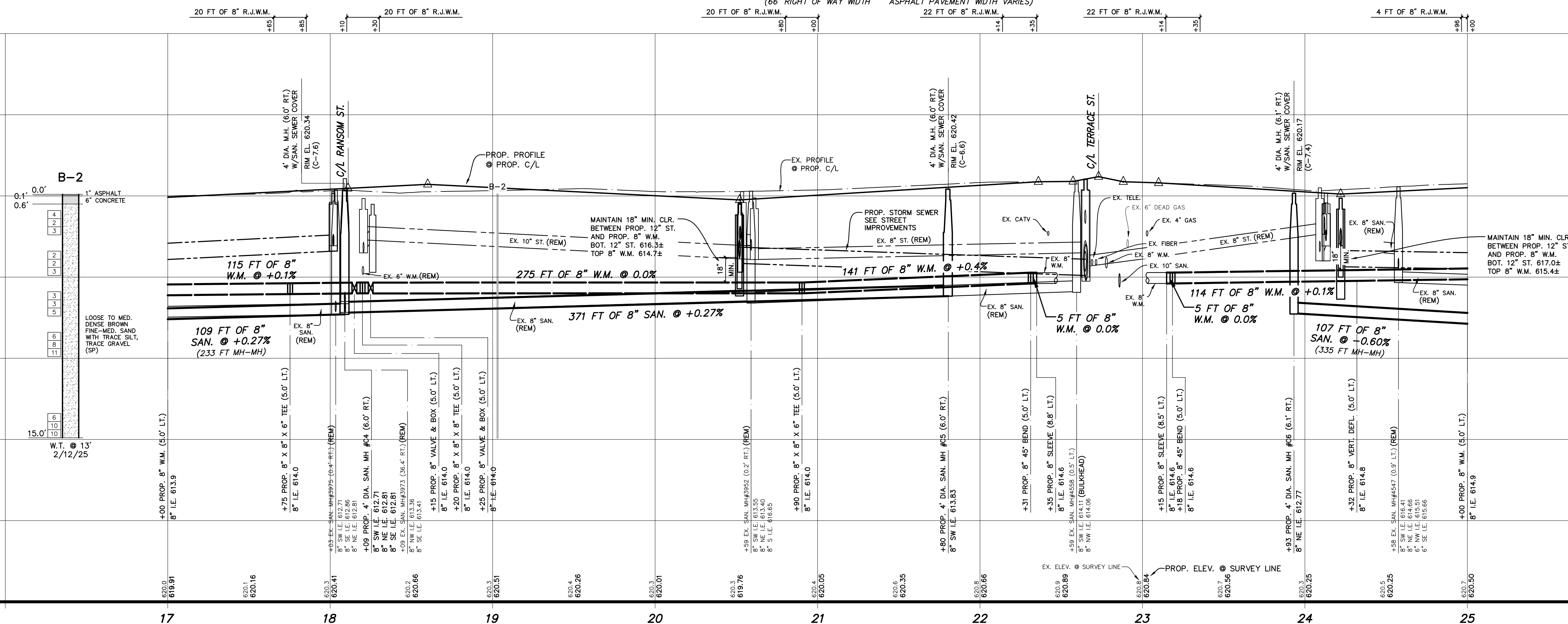
1. WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES PRIOR TO THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
2. WATER SERVICES ARE TO BE REPLACED TO THE WATER METER IF THE METER IS LOCATED INSIDE THE RESIDENCE UNLESS NOTED OTHERWISE. IF THE METER IS LOCATED OUTSIDE THE RESIDENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXISTING WATER SERVICE TO THE METER. THE CONTRACTOR IS REQUIRED TO CONNECT TO THE EXISTING METER WHICH MUST BE APPROVED BY THE HOME OWNER AND ENGINEER PRIOR TO THE START OF A NEW WATER SERVICE. THE CONTRACTOR IS AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND COMMUNICATE WITH THE PROPERTY OWNER AND ENGINEER FOR ANY CHANGES TO THE EXISTING WATER SERVICE.
3. IF THE WATER SERVICE METER IS LOCATED IN A PIT OUTSIDE THE HOUSE, THE CONTRACTOR SHALL ATTEMPT TO RELOCATE THE METER INTO THE RESIDENCE. RELOCATION MUST BE COORDINATED WITH THE CITY AND THE PROPERTY OWNER.
4. CONTRACTOR TO COORDINATE WITH THE CITY FOR WATER SERVICE.

SANITARY LATERAL TOTALS (THIS SHEET)

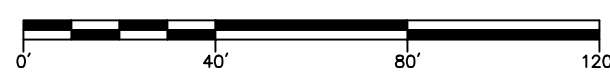
SANITARY SEWER, WYE, 8" x 6"	16 EA
SANITARY LATERAL, 6"	560 FT
SANITARY LATERAL, CONNECTION TO EX.	16 EA

WATER SERVICE TOTALS (THIS SHEET)

WATER SERVICE, CORPORATION STOP, 1"	14 EA
WATER SERVICE, CURB STOP AND BOX, 1"	14 EA
WATER SERVICE, 1"	1410 FT
WATER SERVICE, CONNECT TO EX.	17 EA
WATER SERVICE, RESTORATION, PRIVATE	16 EA



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.



SCALES : 1" = 40' HORIZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	R E V I S I O N S	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE
				FEB. '25
				CHECKED
				M.R.H.
				DATE
				MAY '25

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

SANITARY SEWER & WATERMAIN
CATHERINE AVENUE

PROJECT NO.
2240838

SHEET NO.

9 OF 22

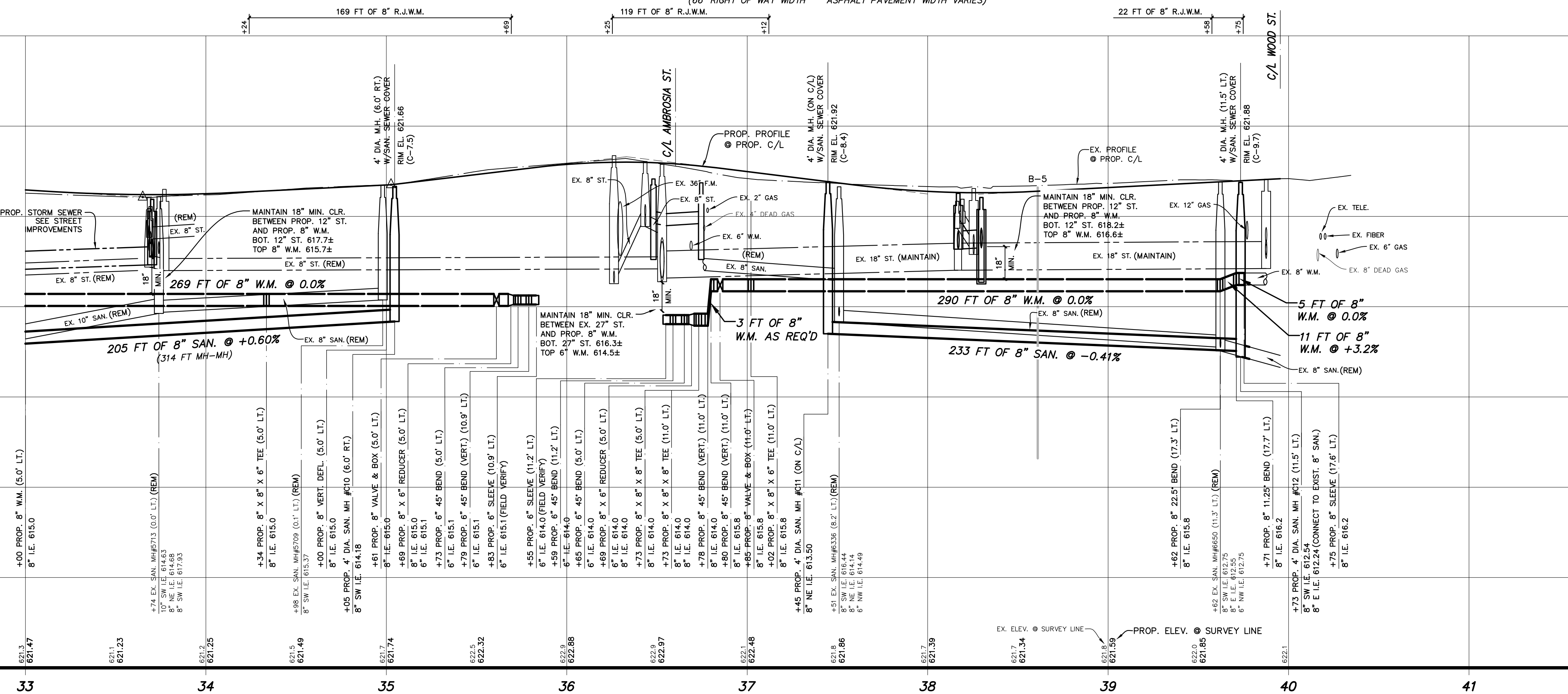
PROJECT NO.
2240838

SHEET NO.
10 OF 22

POINT No.	NORTHING	EASTING	ELEVATION
306	636279.07	12625416.49	623.41
307	636511.80	12625708.35	622.48
308	636312.52	12625369.14	623.20

811
Know what's below.
Call before you dig.

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SANITARY SEWER CONSTRUCTION NOTES

1. ALIGNMENT & LOCATION OF EXISTING SANITARY SEWER LATERALS ARE FROM AVAILABLE RECORDS. EXACT LOCATION IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION OF SANITARY LATERALS PRIOR TO INSTALLATION OF WYES.
2. SANITARY SEWER LATERALS MUST BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING LATERAL.

WATER MAIN CONSTRUCTION NOTES

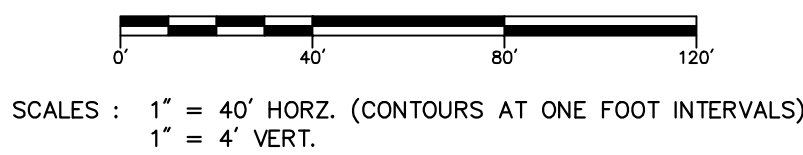
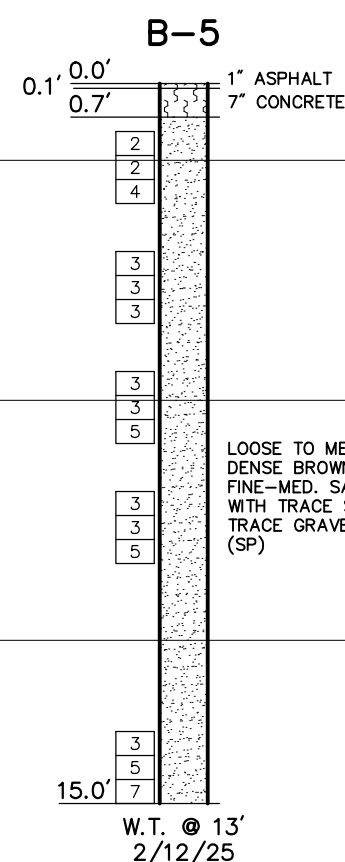
1. CONTRACTOR MUST PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE BETWEEN PROPOSED WATER MAIN, AND STORM AND SANITARY SEWERS.
2. USE HYDRANT EXTENSIONS OR VERTICAL BENDS ON HYDRANT LEADS TO ENSURE HYDRANT BREAKAWAY FLANGE IS 3'-6" FROM FINISHED GRADE. COST MUST BE INCLUDED IN THE HYDRANT PAY ITEM.
3. SHADED WATER MAIN INDICATES RESTRAINED JOINT WATER MAIN.
4. ALL HYDRANTS MUST BE RESTRAINED TO THE TEE.

WATER SERVICE CONSTRUCTION NOTES

1. WATER SERVICES SHOWN ON THE PLANS ARE LOCATED BASED ON RECORDS. ACTUAL LOCATION MAY BE DIFFERENT THAN SHOWN. ALIGNMENT OF EXISTING WATER SERVICES FROM THE CURB STOP BOX TO THE HOUSE IS UNKNOWN AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO REPLACEMENT.
2. WATER SERVICES ARE TO BE REPLACED TO THE WATER METER IF THE METER IS LOCATED WITHIN THE RESIDENCE UNLESS NOTED OTHERWISE. WATER SERVICES TO BE REPLACED TO 18 INCHES UNDER THE RESIDENCES IF THE METER IS LOCATED OUTSIDE.
3. IF THE METER IS LOCATED OUTSIDE THE PROPERTY LINE, IT IS REQUIRED TO CONNECT TO THE EXISTING METER MUST BE LOCATED UNDER THE HOME. THE HOME MUST BE OPENED UP TO ACCESS TO INSTALLATION. A NEW CURB STOP MUST BE INSTALLED AT THE PROPERTY LINE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE METER AND RELOCATE IT TO THE PROPERTY OWNER AND RESIDENT FOR ENTRY INTO THE RESIDENCE.
3. IF THE WATER SERVICE METER IS LOCATED IN A PIT OUTSIDE THE HOUSE, THE CONTRACTOR SHALL ATTEMPT TO RELOCATE THE METER INTO THE RESIDENCE. RELOCATION MUST BE COORDINATED WITH THE CITY AND THE PROPERTY OWNER.
4. CONTRACTOR TO COORDINATE WITH THE CITY FOR METER REMOVAL AND REINSTALLATION.

SANITARY LATERAL TOTALS (THIS SHEET)	
SANITARY SEWER, WYE, 8" x 6"	18 EA
SANITARY LATERAL, 6"	800 FT
SANITARY LATERAL, CONNECTION TO EX.	7 EA

WATER SERVICE TOTALS (THIS SHEET)	
WATER SERVICE, CORPORATION STOP, 1"	15 EA
WATER SERVICE, CURB STOP AND BOX, 1"	15 EA
WATER SERVICE, 1"	930 FT
WATER SERVICE, CONNECT TO EX.	5 EA
WATER SERVICE, RESTORATION, PRIVATE	5 EA



NO.	R E V I S I O N S	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE
				FEB. '25
				CHECKED
				M.R.H.
				DATE
				MAY '25

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

SANITARY SEWER & WATERMAIN

CATHERINE AVENUE

PROJECT NO.
2240838

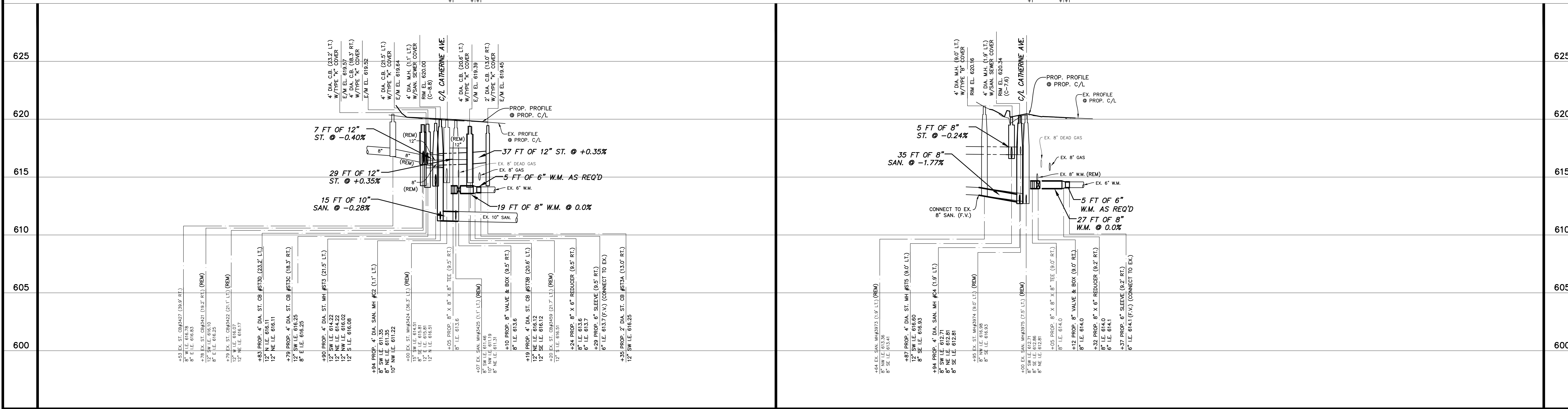
SHEET NO.
11 OF 22

ARTHUR STREET
(LOOKING SOUTHWEST)

19 FT OF 8" R.J.W.M. 5 FT OF 6" R.J.W.M.

RANSOM STREET
(LOOKING SOUTHWEST)

27 FT OF 8" R.J.W.M. 5 FT OF 6" R.J.W.M.



PINE STREET
(LOOKING SOUTHWEST)

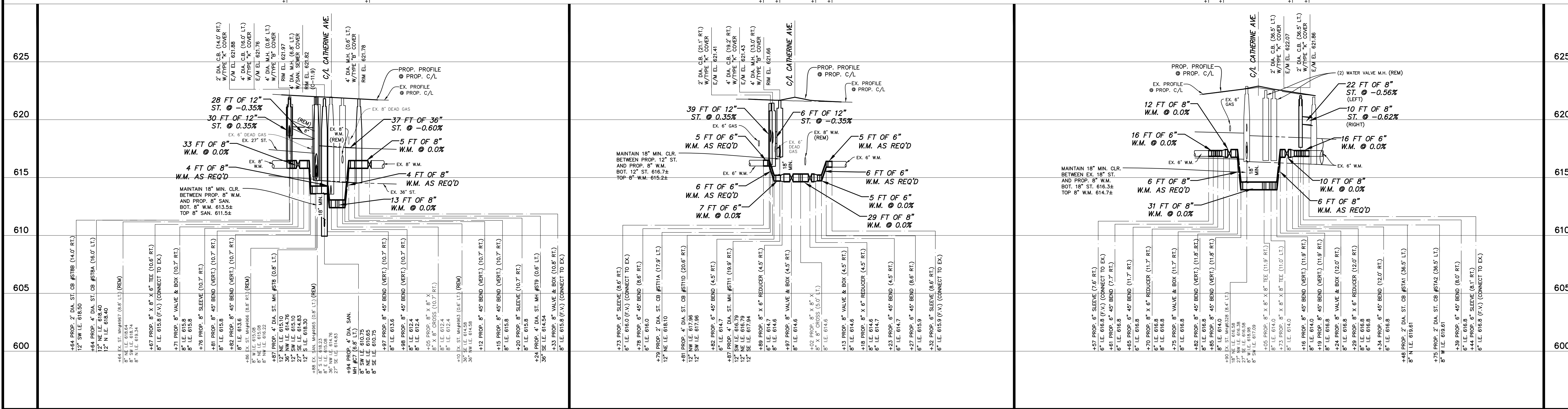
73 FT OF 8" R.J.W.M.

SPRING STREET
(LOOKING SOUTHWEST)

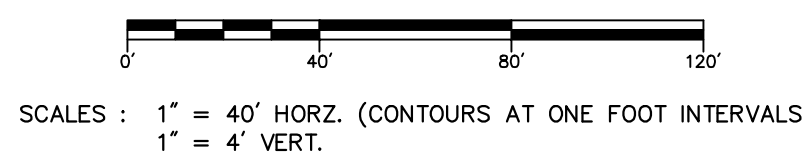
16 FT OF 6" R.J.W.M. 31 FT OF 8" R.J.W.M. 16 FT OF 6" R.J.W.M.

AMBROSIA STREET
(LOOKING SOUTHWEST)

16 FT OF 8" R.J.W.M. 65 FT OF 8" R.J.W.M. 16 FT OF 6" R.J.W.M.



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NO.	REVISIONS	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE: FEB. '25
				CHECKED: M.R.H.
				DATE: MAY '25

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Engineers-Surveyors-Environmental-Laboratory

CITY OF MUSKOGON
MUSKOGON COUNTY, MICHIGAN

UTILITY & STREET IMPROVEMENTS
UTILITY TIE-INS

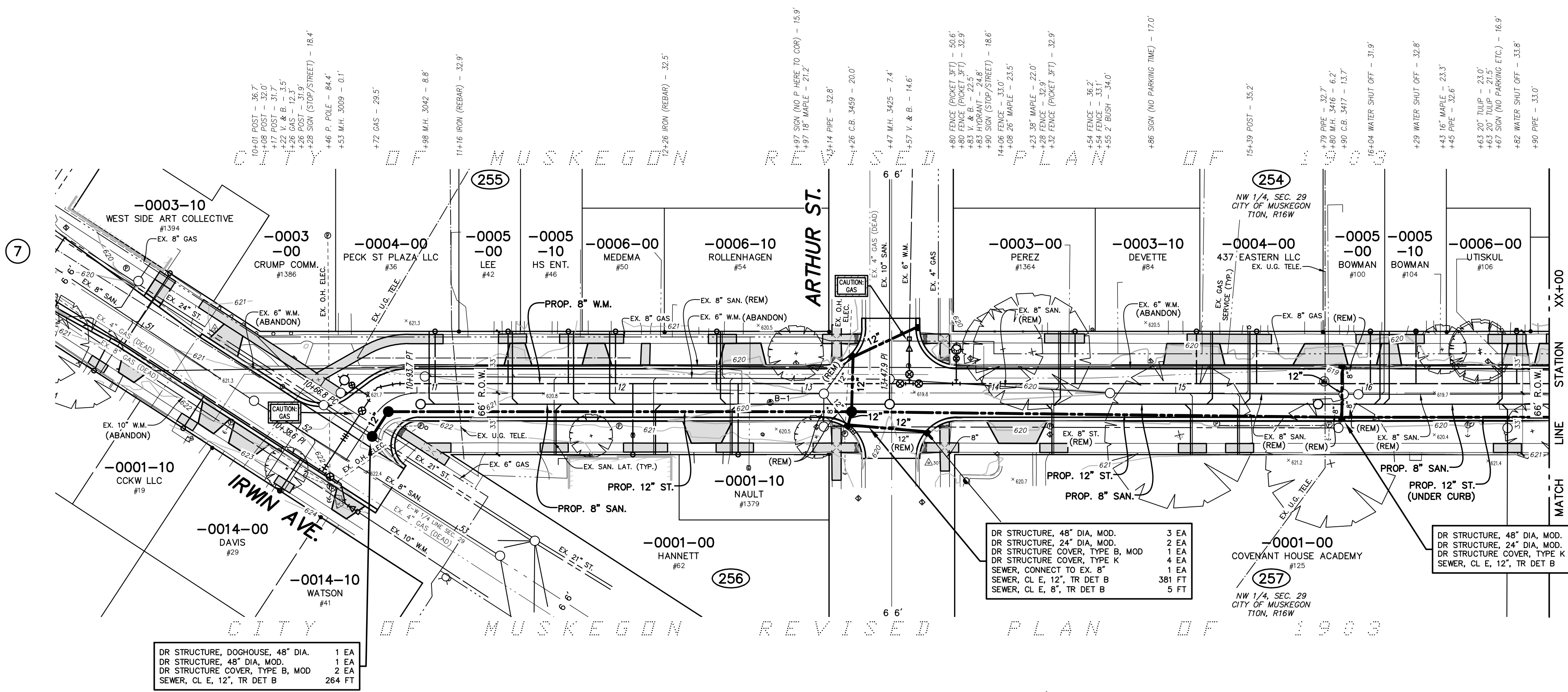
PROJECT NO.
2240838

SHEET NO.

12 OF 22

B.M. EL. 623.78
HOUSE 19 IRWIN 45'± SOUTH OF C/L
IRWIN OPP. EASTERLY CURB OF CATHERINE
ST EXT. TOP OF NE CORNER OF BOTTOM
CONCRETE STEP TO PORCH
(0.55 A/WALK)

CONTROL POINT TABLE		
POINT No.	NORTHING	EASTING ELEVATION
300	634948.65	12623128.26 621.19
301	635085.86	12623492.16 620.64



TOPOGRAPHY TEXT NOTE
TOPOGRAPHY TEXT SHOWN FOR
INFORMATION ONLY. SEE REMOVAL
PLANS FOR ACTION ITEMS.

PROPOSED
PAVEMENT LEGEND

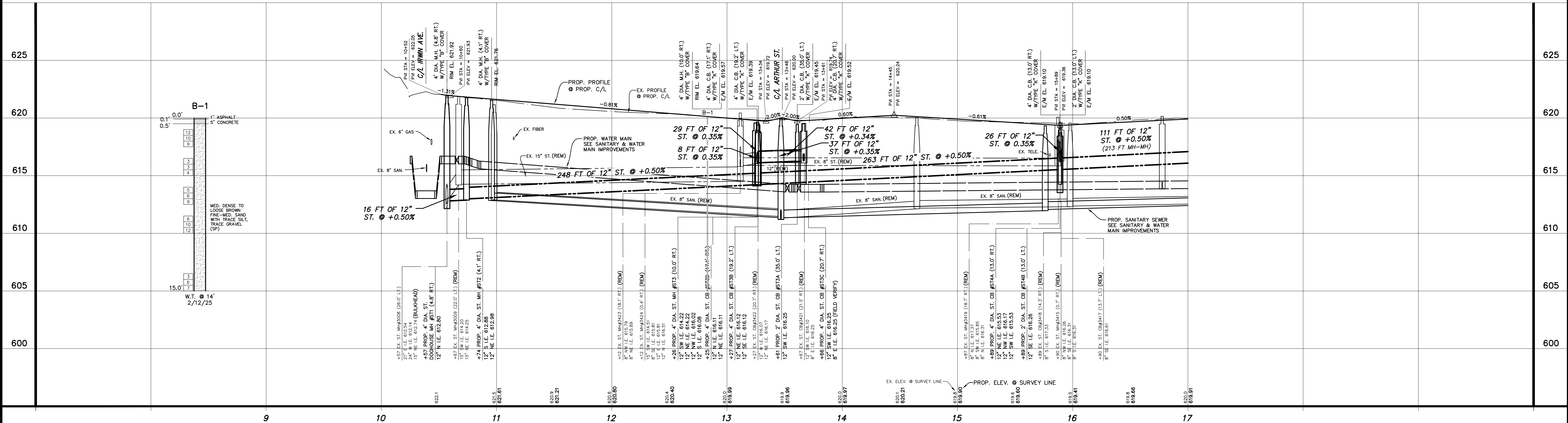
PROPOSED HMA SURFACE

PROPOSED DRIVEWAY,
NONREINF CONC, 6 INCH OR
SIDEWALK, CONC, 4/6 INCH
CONC PAVT, NONREINF, 8 INCH

NOTE: PROPOSED PAVEMENT ON
STREET & INTERSECTIONS NOT
SHADED FOR CLARITY.

CATHERINE AVENUE

(66' RIGHT OF WAY WIDTH ASPHALT PAVEMENT WIDTH VARIES)



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL
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SHOULD NOT BE INTERPRETED TO BE EXACT
LOCATIONS NOR SHOULD IT BE ASSUMED THAT
THEY ARE THE ONLY UTILITIES IN THIS AREA.

SCALES : 1" = 40' HORIZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	REVISIONS	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				FEB. '25
				M.R.H.
				MAY '25

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN
STREET IMPROVEMENTS
CATHERINE AVENUE

PROJECT NO.
2240838
SHEET NO.
13 OF 22

B.M. EL. 622.50
150 CATHERINE AVE. NORTH SIDE OF
ROAD, TOP OF SW COR. BOTTOM
CONCRETE STEP (0.5 A/WALK)

B.M. EL. 621.51
1292 TERRACE, TOP OF SE COR. BOTTOM
CONCRETE STEP (0.5 A/WALK)

CONTROL POINT TABLE		
POINT No.	NORTHING	EASTING
302	635335.93	12623895.97
303	635620.28	12624253.84

TOPOGRAPHY TEXT NOTE
TOPOGRAPHY TEXT SHOWN FOR
INFORMATION ONLY. SEE REMOVAL
PLANS FOR ACTION ITEMS.

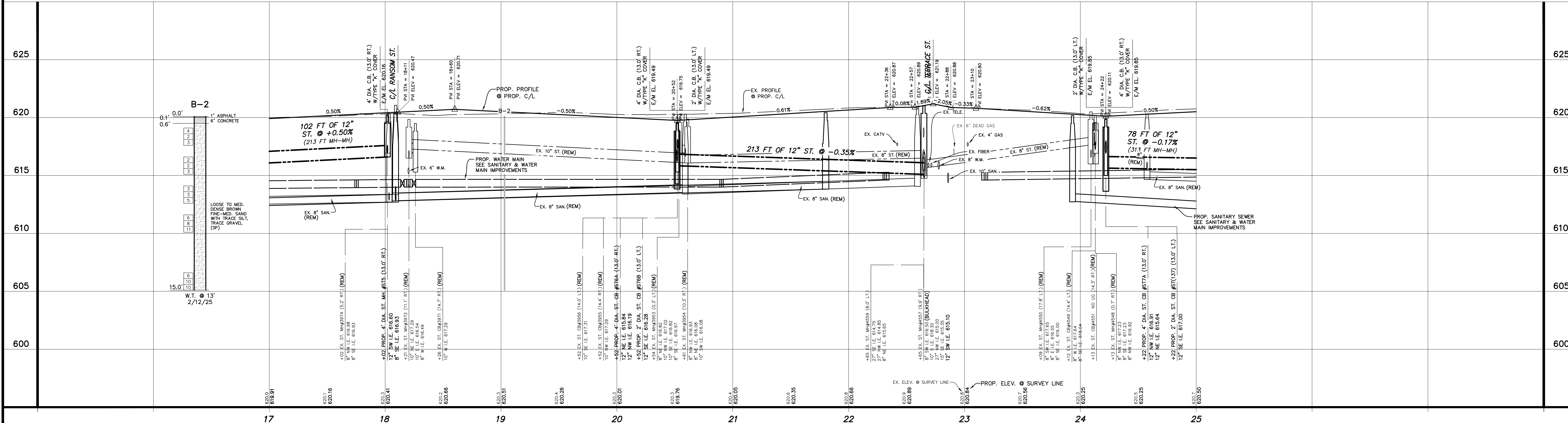
PROPOSED
PAVEMENT LEGEND

PROPOSED HMA SURFACE

PROPOSED DRIVEWAY,
NONREINFORCED CONC, 6 INCH OR
SIDEWALK, CONC, 4/8 INCH
CONC PAVT, NONREINFORCED, 8 INCH

NOTE: PROPOSED PAVEMENT ON
STREET & INTERSECTIONS NOT
SHADED FOR CLARITY.

CATHERINE AVENUE
(66' RIGHT OF WAY WIDTH ASPHALT PAVEMENT WIDTH VARIES)





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Know what's below.
Call before you dig.

NO. 1

REVISIONS

ISSUED FOR BIDS

BY M.R.H.

DATE 5/25

DRAWN STAFF

CHECKED M.R.H.

DATE MAY '25



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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS
CATHERINE AVENUE

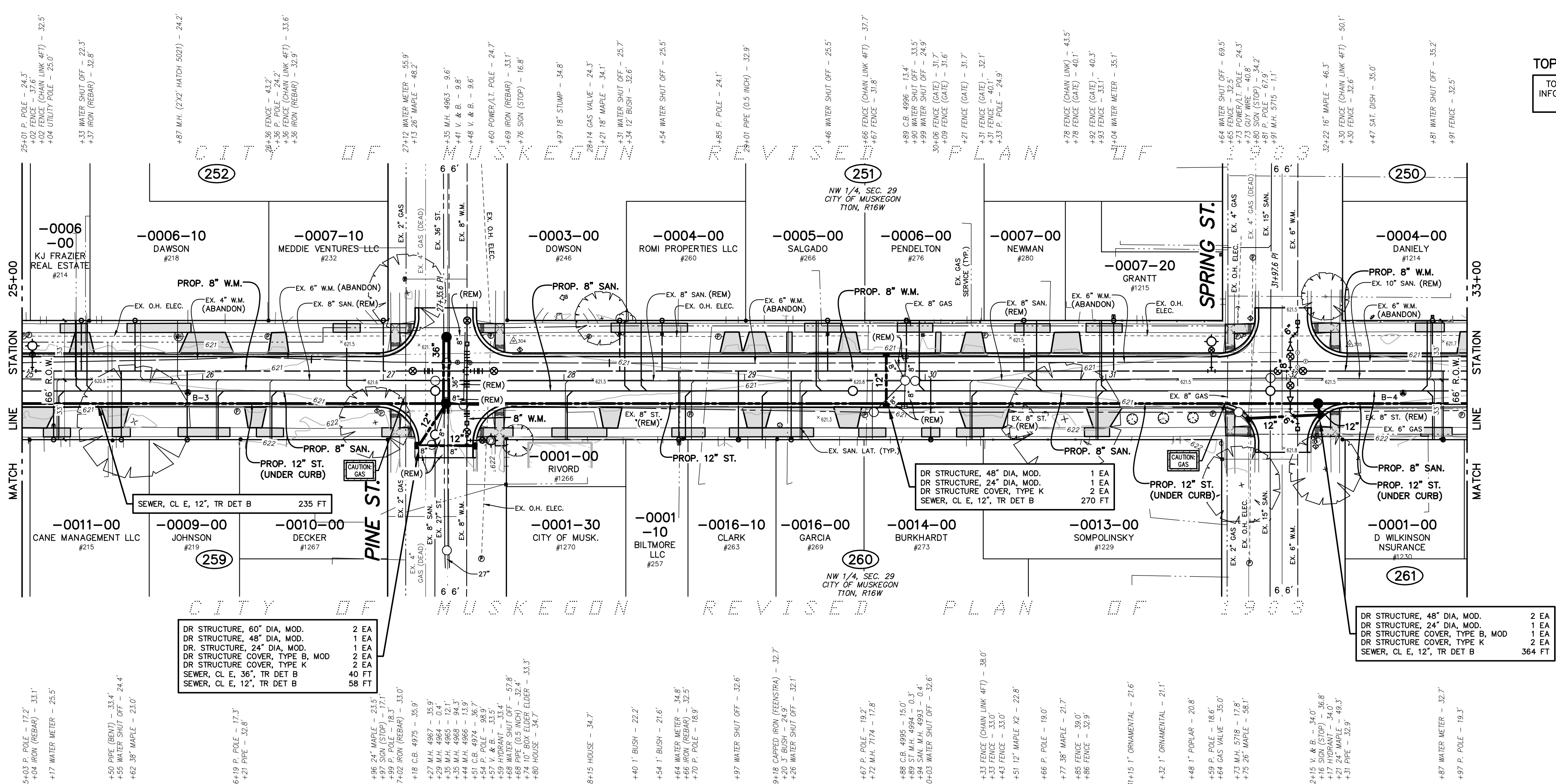
PROJECT NO. 2240838

SHEET NO. 14 OF 22

B.M. EL. 622.50
HOUSE 246 CATHERINE AVE. TOP OF SW
COR. BOTTOM CONCRETE STEP
(0.5 A/GROUND)

B.M. EL. 622.87
SPRING ST. AND CATHERINE AVE. SW
QUADRANT OF INTERSECTION. SET RR
SPIKE IN EAST SIDE POWER LIGHT POLE
(1.0 A/GROUND)

CONTROL POINT TABLE		
POINT No.	NORTHING	EASTING
304	635666.20	1262461.27
305	636105.16	12625057.62



TOPOGRAPHY TEXT NOTE
TOPOGRAPHY TEXT SHOWN FOR
INFORMATION ONLY. SEE REMOVAL
PLANS FOR ACTION ITEMS.

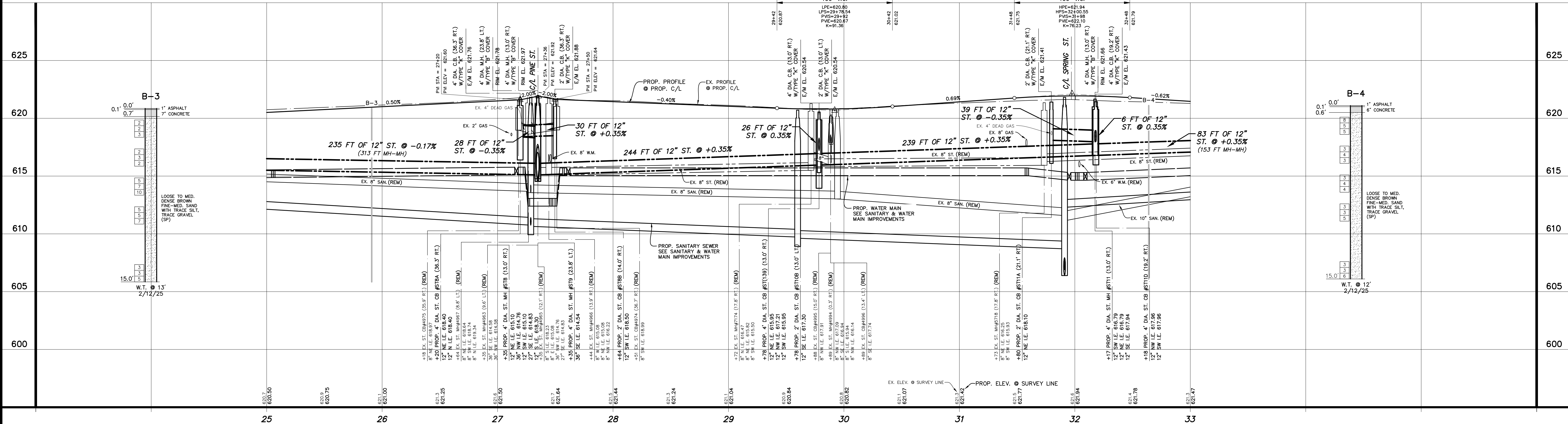
PROPOSED
PAVEMENT LEGEND

- PROPOSED HMA SURFACE
- PROPOSED DRIVEWAY,
NONREINF. CONC, 6 INCH OR
SIDEWALK, CONC, 4 INCH OR
CONC PAVT, NONREINF, 8 INCH

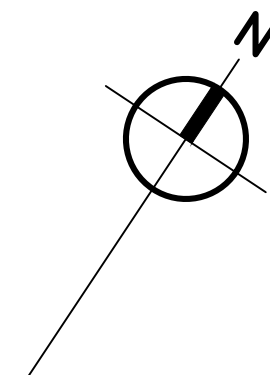
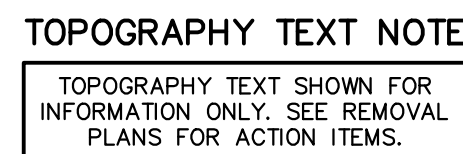
NOTE: PROPOSED PAVEMENT ON
STREET & INTERSECTIONS NOT
SHADED FOR CLARITY.

CATHERINE AVENUE

(66' RIGHT OF WAY WIDTH ASPHALT PAVEMENT WIDTH VARIES)



POINT No.	NORTHING	EASTING	ELEVATION
306	636279.07	12625416.49	623.41
307	636511.80	12625708.35	622.48
308	636312.52	12625369.14	623.20

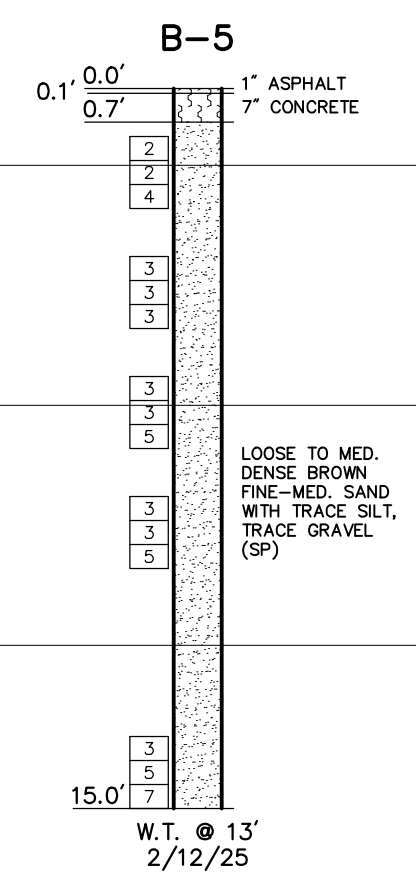
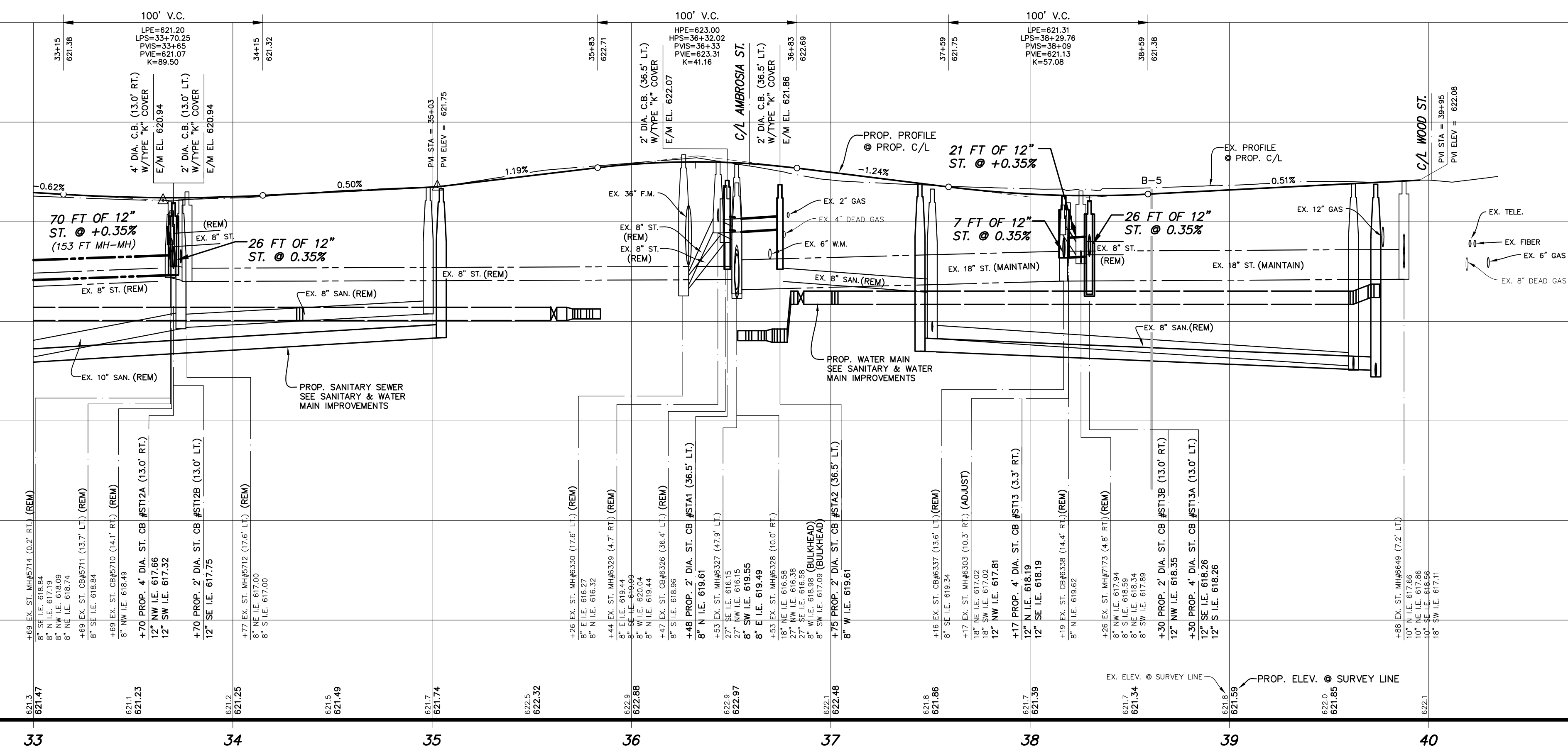


PROPOSED PAVEMENT LEGEND

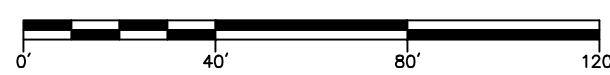
-  PROPOSED HMA SURFACE
 PROPOSED DRIVEWAY,
 NONREINF CONC, 6 INCH OR
 SIDEWALK, CONC, 4/6 INCH
 CONC PAVT, NONREINF, 8 INCH

NOTE: PROPOSED PAVEMENT ON
STREET & INTERSECTIONS NOT
SHADED FOR CLARITY.

(66' RIGHT OF WAY WIDTH ASPHALT PAVEMENT WIDTH VARIES)



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SCALES : 1" = 40' HORZ. (CONTOURS AT ONE FOOT INTERVALS)
1" = 4' VERT.

NO.	R E V I S I O N S	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE
				FEB. '25
				CHECKED
				M.R.H.
				DATE
				MAY '25

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS
CATHERINE AVENUE

PROJECT NO.
2240838

SHEET NO.

16 OF 22

R E V I S I O N S			BY	DATE	DRAWN
1	ISSUED FOR BIDS		M.R.H.	5/25	STAFF
					DATE
					FEB. '25
					CHECKED
					M.R.H.
					DATE
					MAY '25

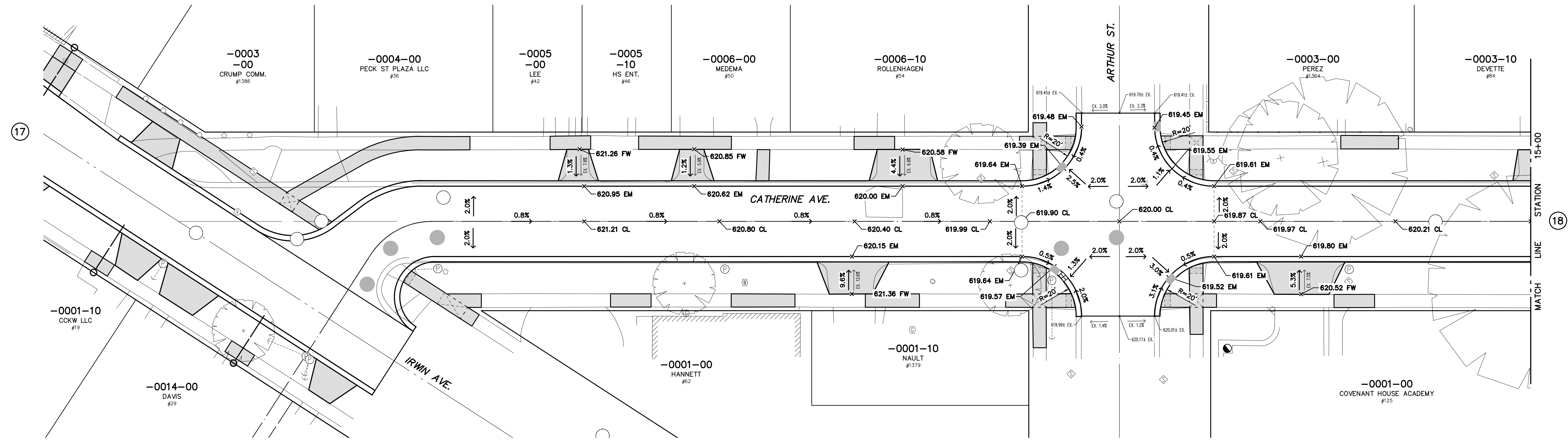
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CITY OF MUSKOGON
MUSKOGON COUNTY, MICHIGAN

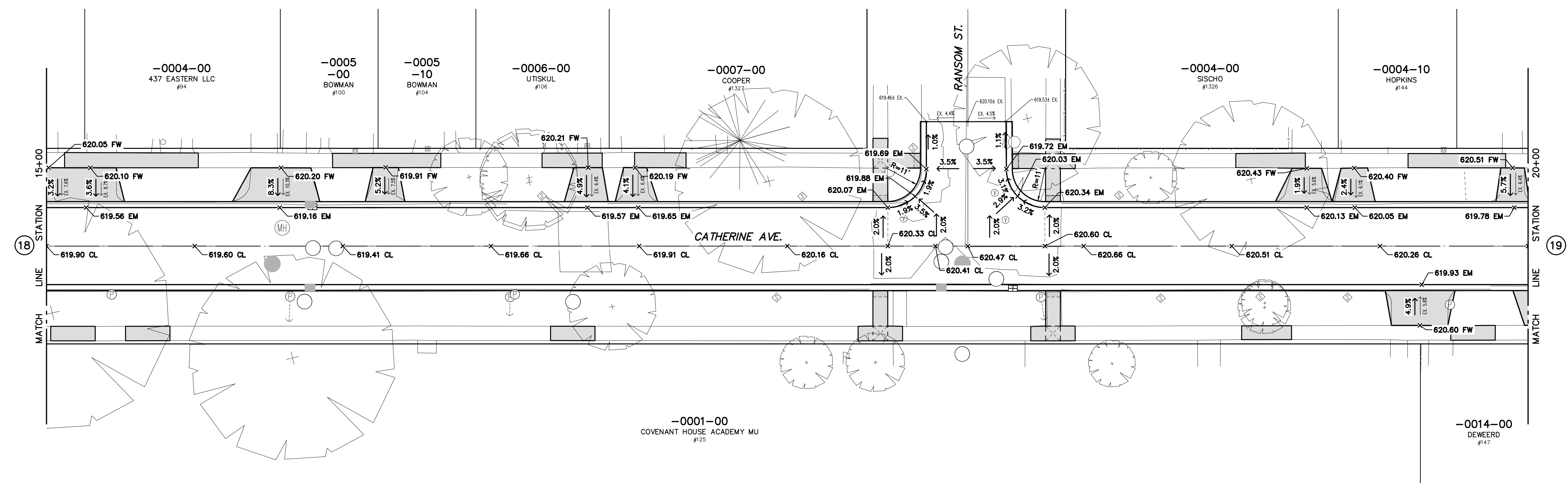
STREET IMPROVEMENTS

GRADING DETAILS

PROJECT NO.
2240838
SHEET NO.
7 OF 22



GRADING DETAILS – CATHERINE AVE. North
 SCALE : 1" = 20'



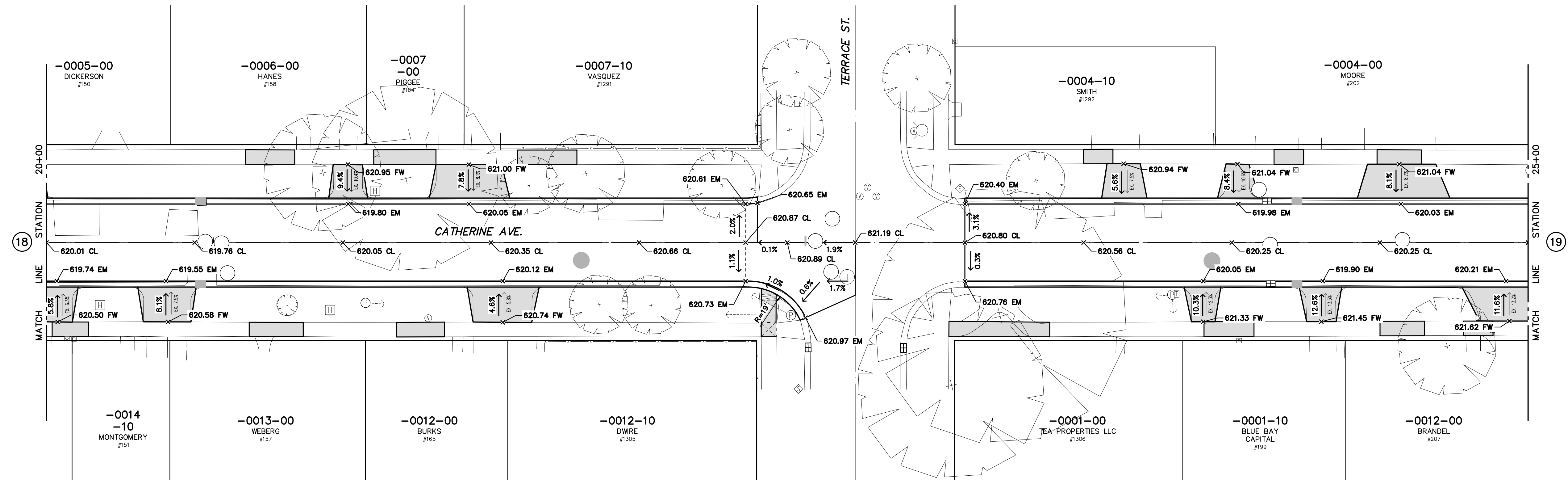
GRADING DETAILS – CATHERINE AVE. North
 SCALE : 1" = 20'

NO.		REVISIONS		BY	DATE	DRAWN
1		ISSUED FOR BIDS		M.R.H.	5/25	STAFF
						DATE FEB. '25
						CHECKED M.R.H.
						DATE MAY '25

CITY OF MUSKEGON
 MUSKEGON COUNTY, MICHIGAN
 STREET IMPROVEMENTS
 GRADING DETAILS

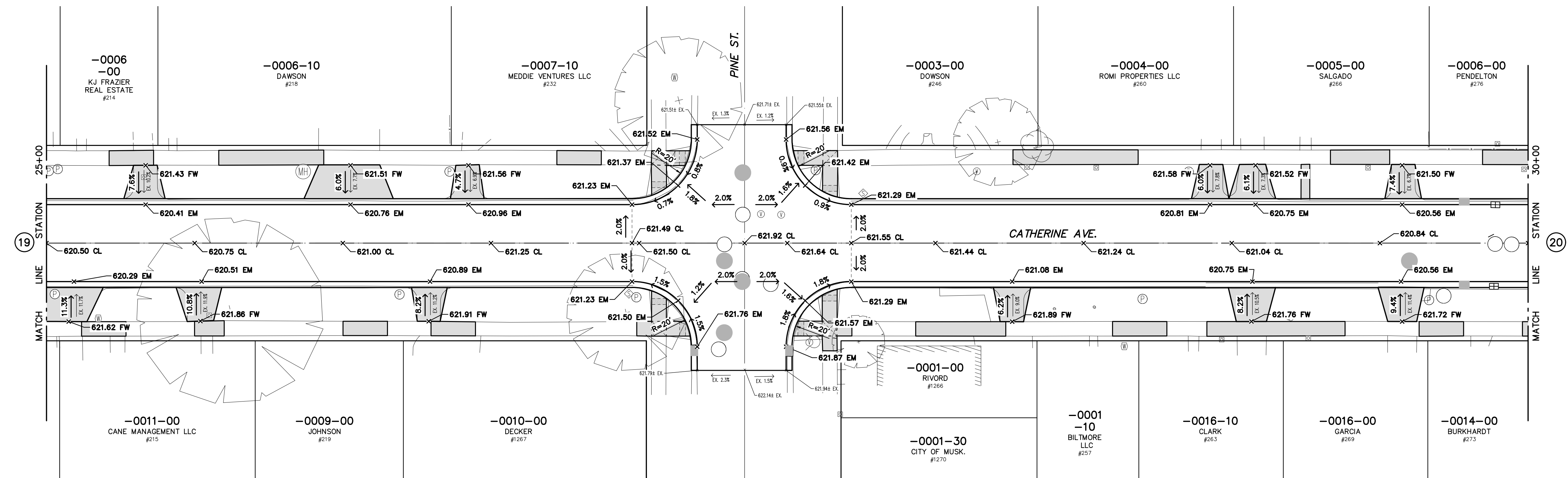
PROJECT NO.
2240838
 SHEET NO.
18 OF 22

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GRADING DETAILS – CATHERINE AVE.

SCALE : 1" = 20'



GRADING DETAILS – CATHERINE AVE.

SCALE : 1" = 20'



NO.	REVISIONS	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE FEB. '25
				CHECKED M.R.H.
				DATE MAY '25

Prein & Newhof
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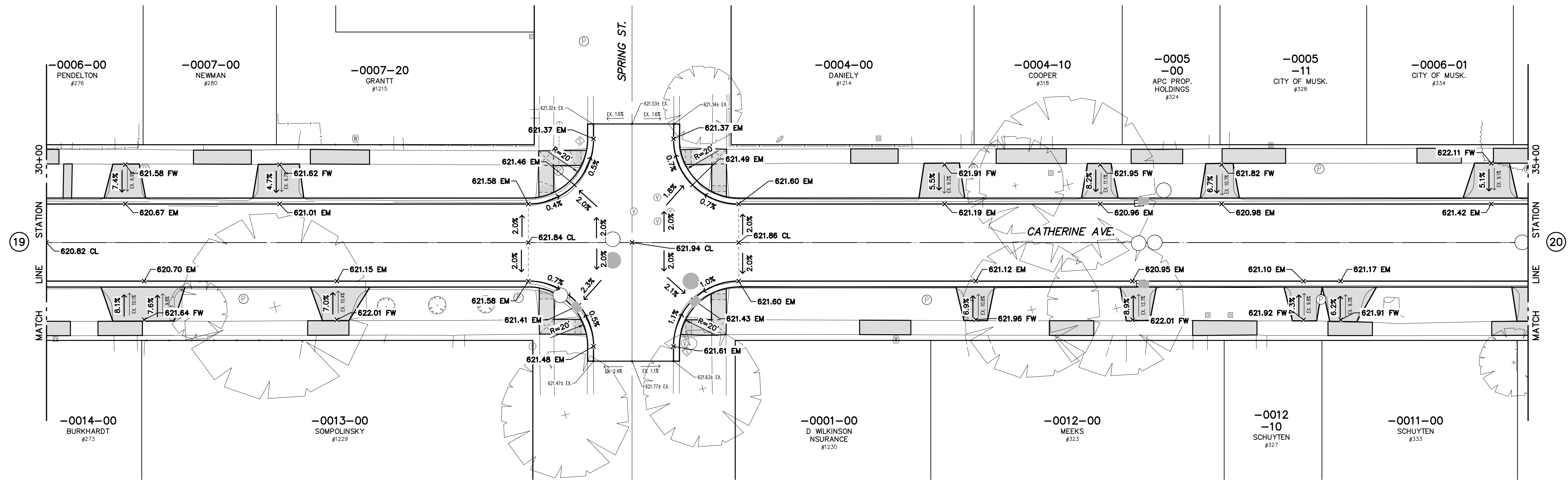
CITY OF MUSKOGON
MUSKOGON COUNTY, MICHIGAN

STREET IMPROVEMENTS
GRADING DETAILS

PROJECT NO.
2240838

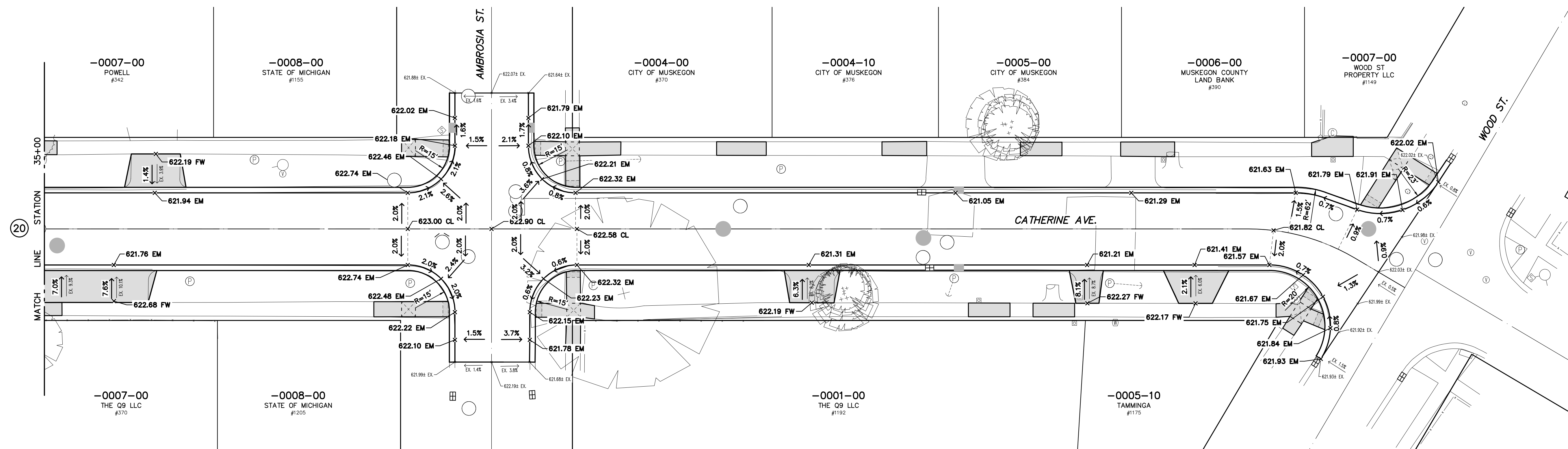
SHEET NO.

19 OF 22



GRADING DETAILS – CATHERINE AVE.

SCALE : 1" = 20'



GRADING DETAILS – CATHERINE AVE.

SCALE : 1" = 20'



NO.	REVISIONS	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE FEB. '25
				CHECKED M.R.H.
				DATE MAY '25

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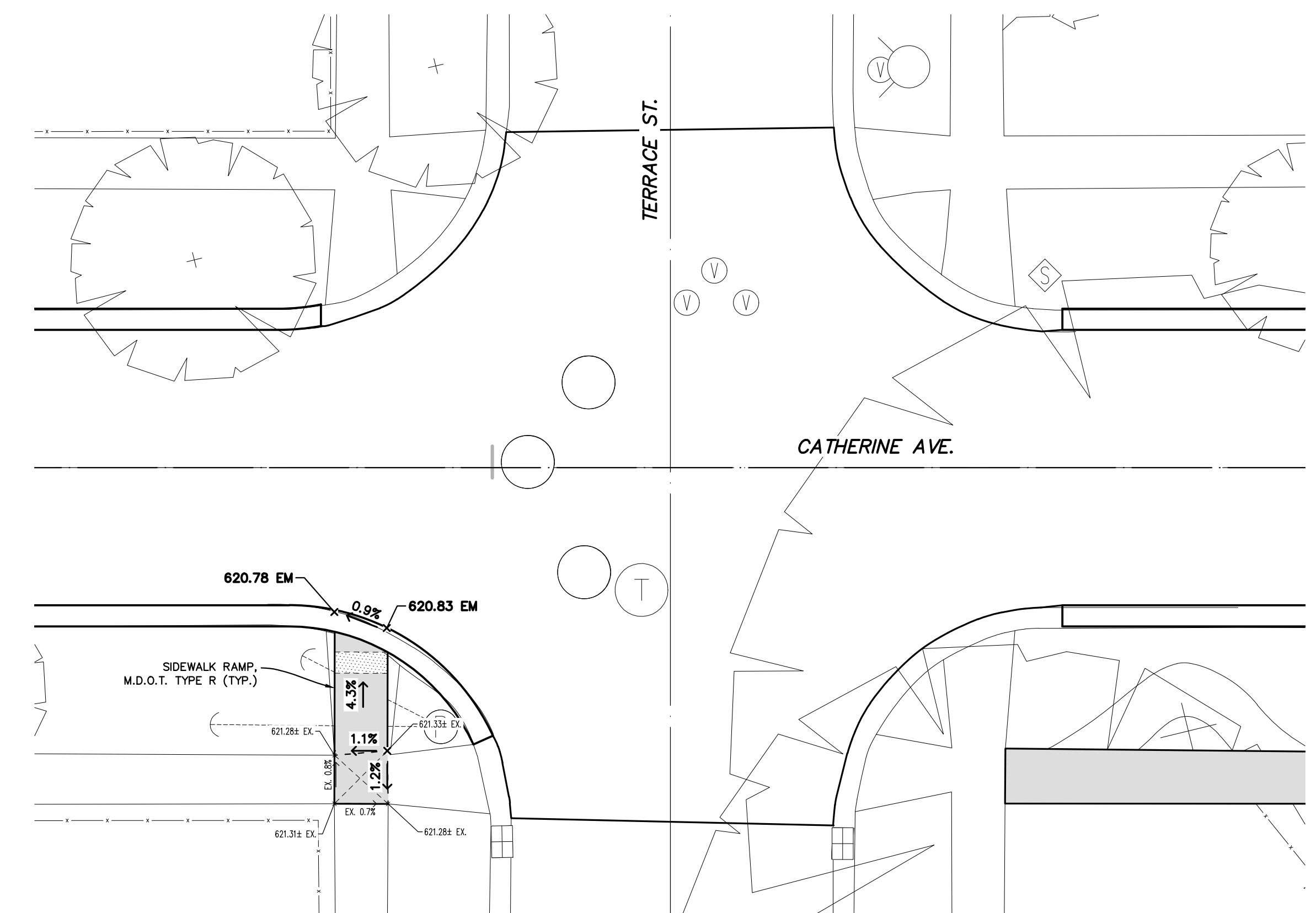
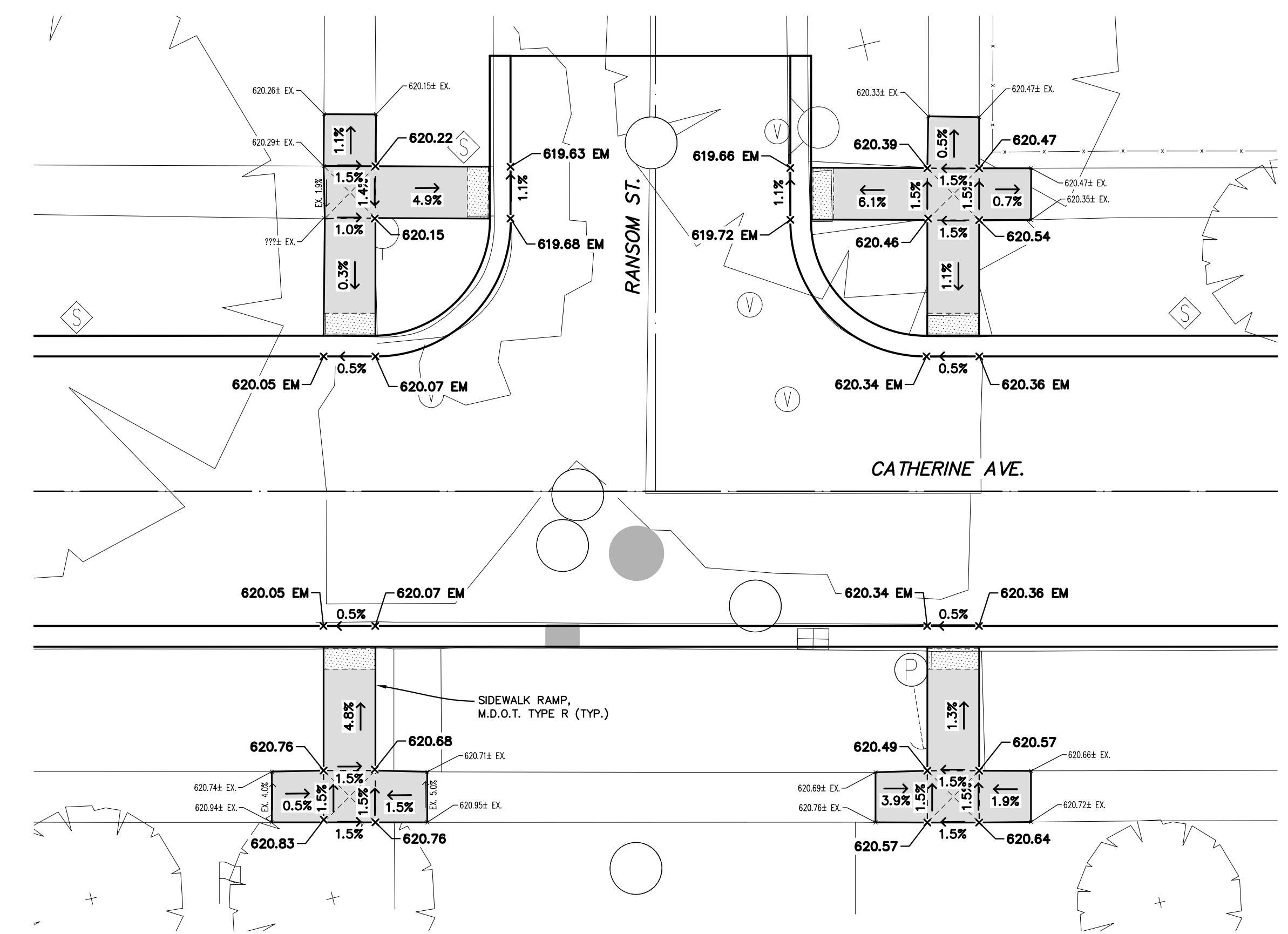
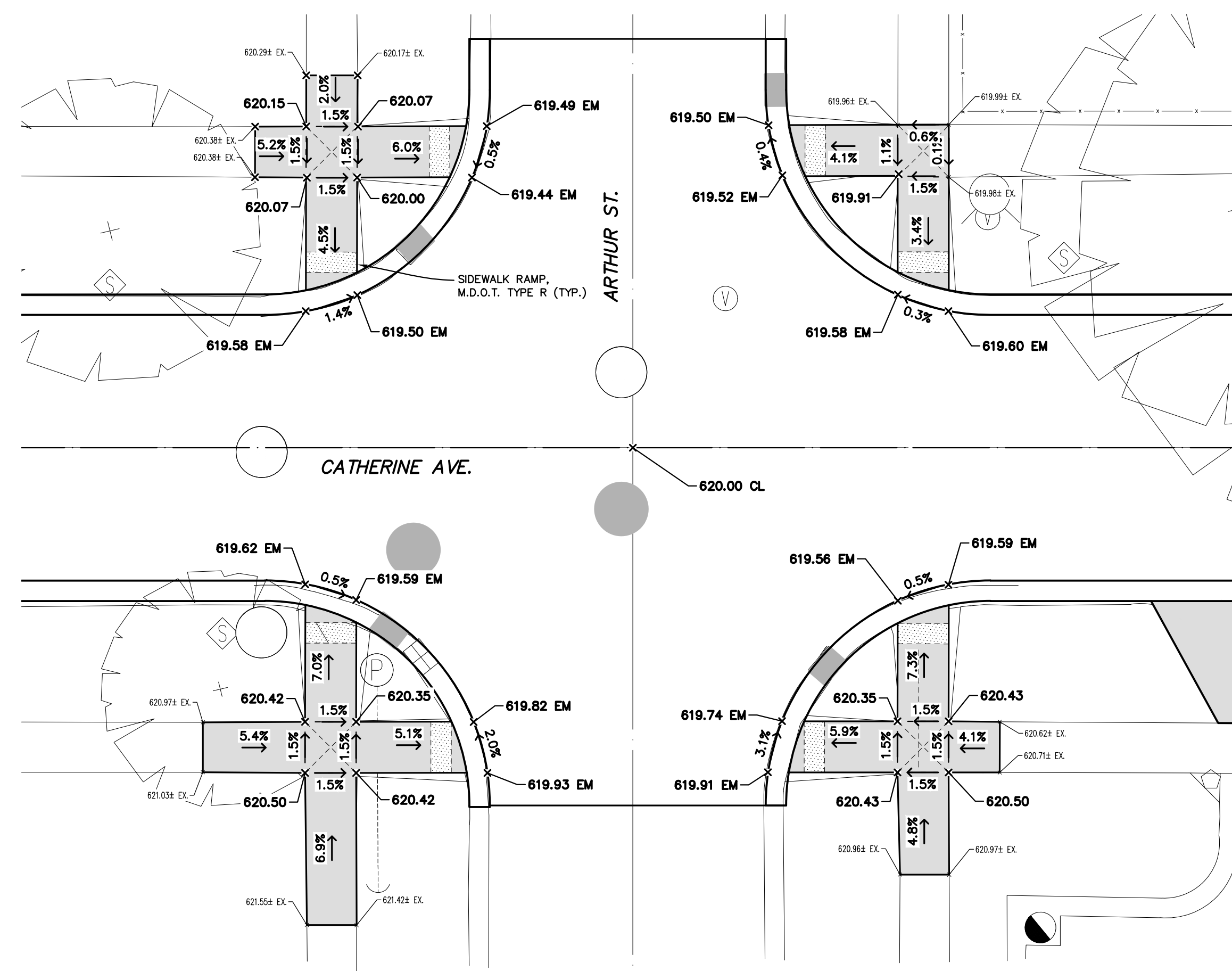
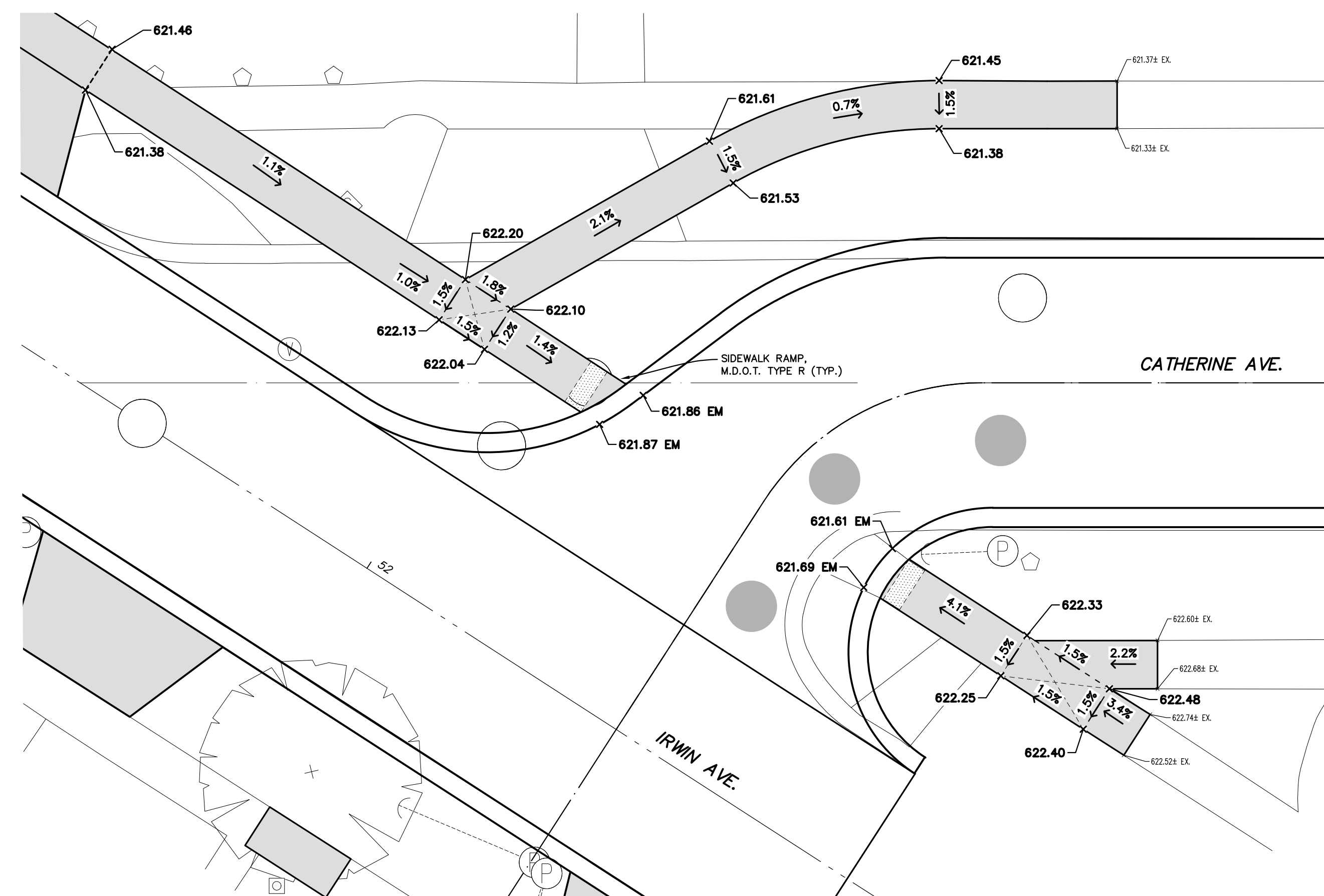
CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS
GRADING DETAILS

PROJECT NO.
2240838

SHEET NO.

20 OF 22



NO.	R E V I S I O N S	BY	DATE	DRAWN
1	ISSUED FOR BIDS	M.R.H.	5/25	STAFF
				DATE
				FEB. '2
				CHECKED
				M.R.H.
				DATE
				MAY '2

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CITY OF MUSKEGON
MUSKEGON COUNTY, MICHIGAN

STREET IMPROVEMENTS

SIDEWALK RAMP DETAILS

PROJECT NO.
2240838

SHEET NO.
21 OF 22

T:\CIVIL3D PROJECTS\2024\2240838_MUSKEGON_CATHERINE_YUBA\4_PROD\2240838_21_DET_1 GRAD_10SC.DWG - PRIN - May, 20 2025 - 09:51am - Print&Newhof

NOTE: RIGHT OF WAY
NOT SHOWN FOR CLARITY

