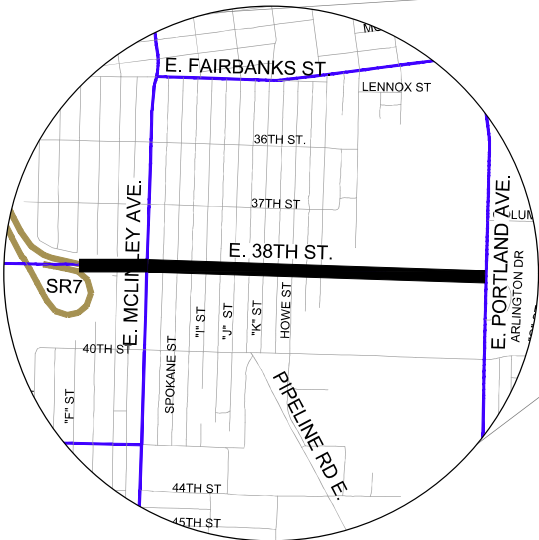




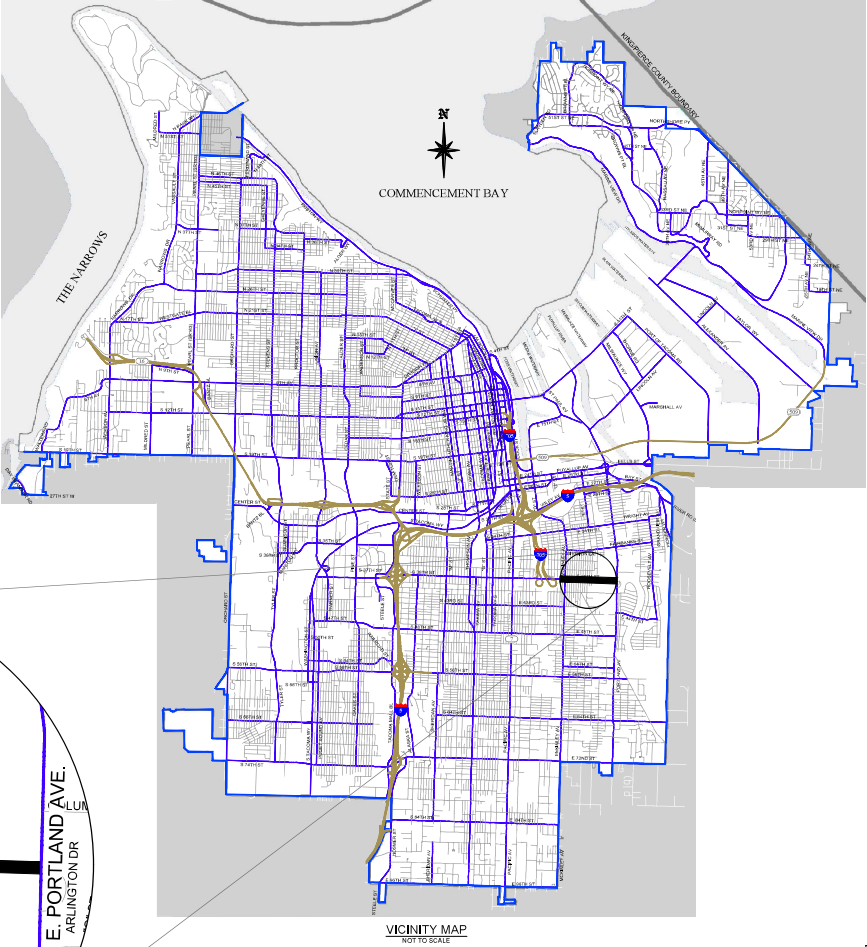
THE CITY OF TACOMA  
PUBLIC WORKS DEPARTMENT  
SPECIFICATION NO. PW23-0107F  
AUGUST 2023

ARTERIAL STREET IMPROVEMENT

E. 38TH ST. OVERLAY  
FROM SR7 TO E PORTLAND AVE.  
PWK-G0051-01  
NHPP-3224(002)



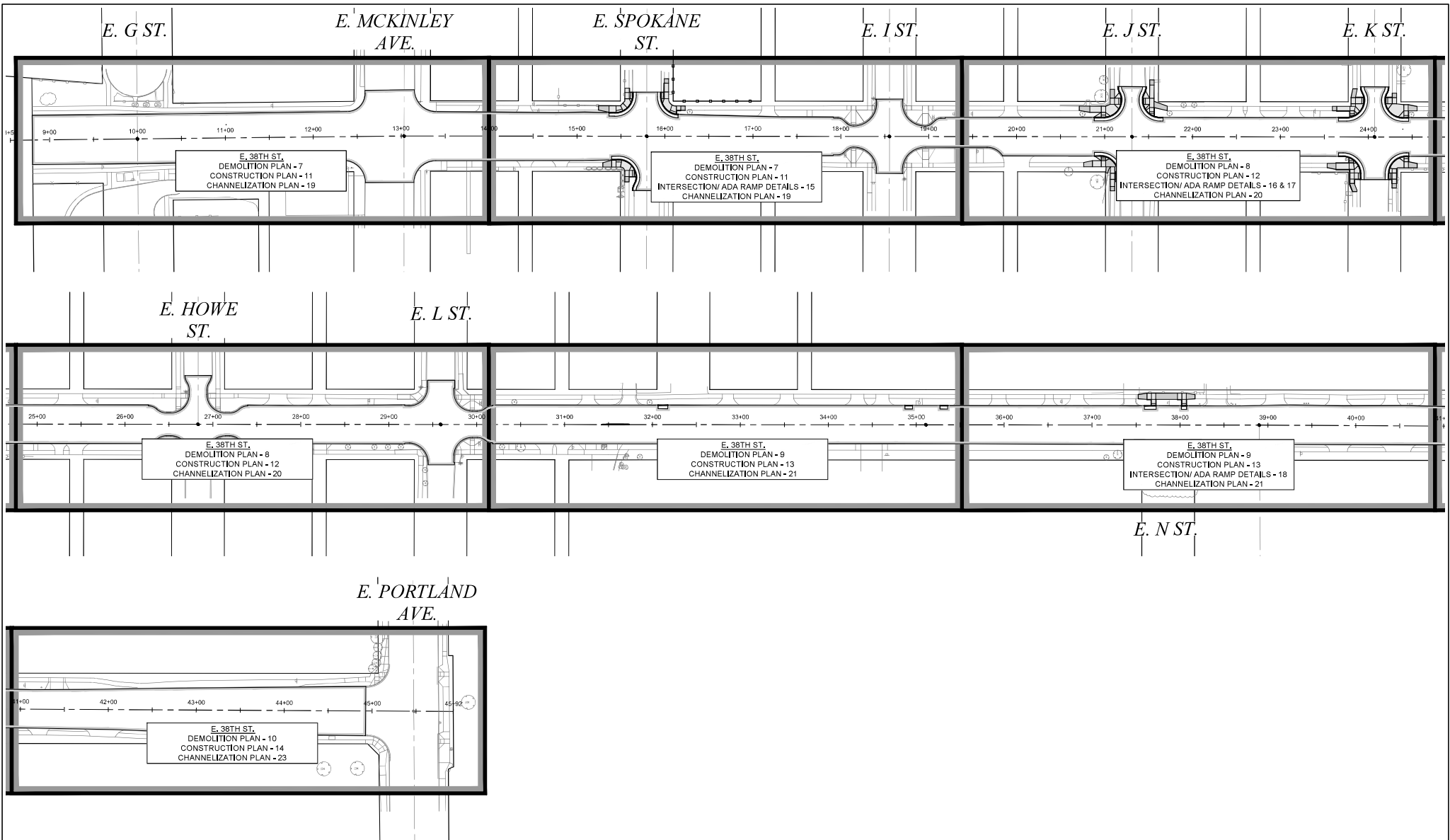
E. 38TH STREET  
FROM E. PORTLAND ST. TO SR7



VICINITY MAP  
NOT TO SCALE

INDEX OF DRAWINGS		
SHEET	SHEET NO.	TITLE OF DRAWINGS
CV-1	1	COVER SHEET
SY-1	2	SYMBOL SHEET
KM-1	3	KEY MAP
HC-1 - HC-2	4-5	HORIZONTAL CONTROL
RS-1	6	ROAD SECTIONS
D-1 - D-4	7-10	DEMOLITION PLAN
C-1 - C-4	11 - 14	CONSTRUCTION PLAN & PROFILE
IRP-1 - IRP-4	15 - 18	INTERSECTION & ADA DETAILS
CH-1 - CH-5	19 - 23	CHANNELIZATION PLAN
TC-1 - TC-5	24- 28	TRAFFIC CONTROL PLAN





**CALL BEFORE YOU DIG**

EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY PER BEST AVAILABLE INFO. AND MAY BE INCOMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, POTHOLES AND AVOIDING ALL EXISTING UTILITIES.

CALL TWO BUSINESS DAYS BEFORE YOU DIG  
(1-800-424-5555) OR VISIT ONLINE: [www.callbeforeyoudig.org](http://www.callbeforeyoudig.org)

**NO**

REVISION	DATE	APPROVED

DATE: SEP 2023

BY: JH

DATE:  

RE: E. 38TH ST.

PROJECT NAME: E. 38TH ST.

PROJECT NUMBER: E38PDXSR7-KM.DWG

2023

**CITY OF TACOMA**

**DEPARTMENT OF PUBLIC WORKS**

**KEY MAP**

**E. 38TH ST. OVERLAY**

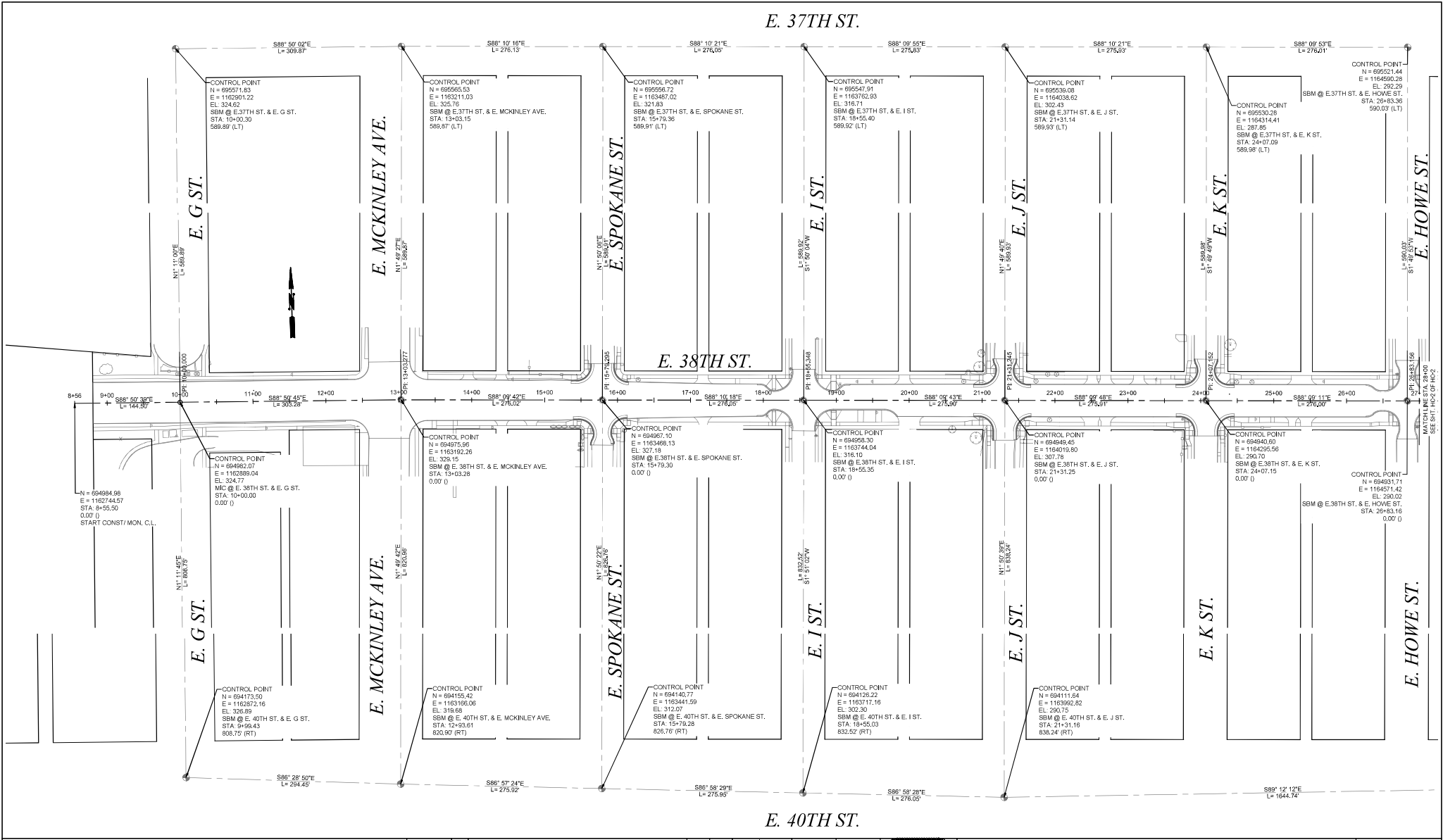
**FROM SR7 TO E. PORTLAND AVE.**

**PWK-G0051**

**3**

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**CALL BEFORE YOU DIG**

EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY PER BEST AVAILABLE INFO. AND MAY BE INCOMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, POT-HOLING AND AVOIDING ALL EXISTING UTILITIES.

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NO


REVISION	DATE	APPD

DATE	BY	DATE	BY
SEP 2023	JH		

SCALE: 1" = 60'

PROJECT: E. 38TH ST.

DESIGNED BY: Jack Melusker



CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS

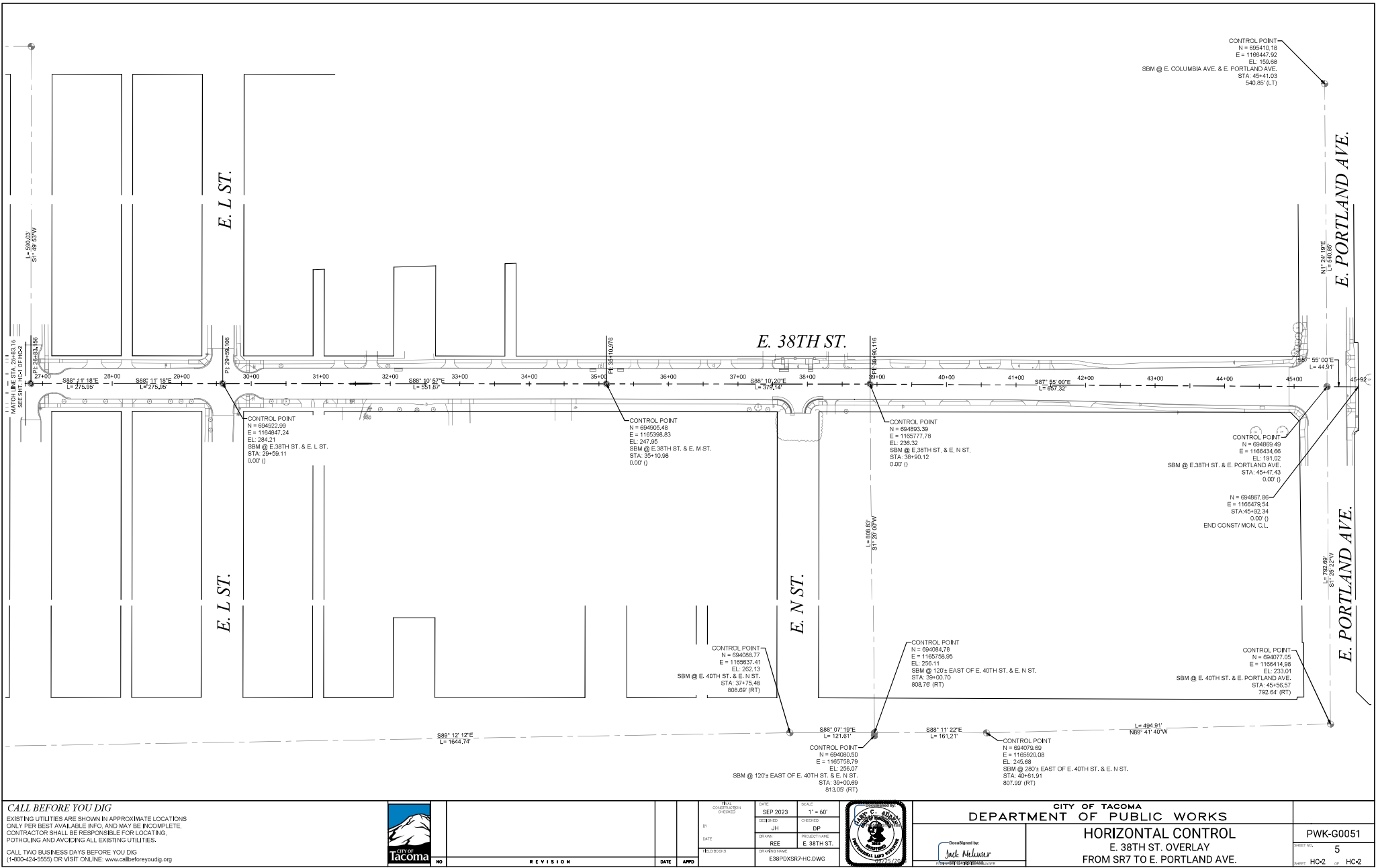
**HORIZONTAL CONTROL**  
E. 38TH ST. OVERLAY  
FROM SR7 TO E. PORTLAND AVE.

PWK-G0051

SHEET NO. 4

SHEET HC-1 OF HC-2





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Drawn by:  
*Jack Melusier*  
Registered Professional Engineer

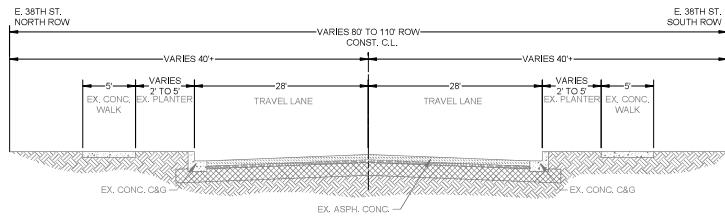
CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS

**HORIZONTAL CONTROL  
E. 38TH ST. OVERLAY  
FROM SR7 TO E. PORTLAND AVE.**

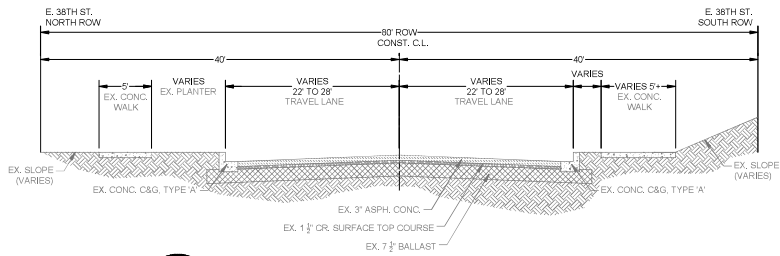
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SHEET NO. 5

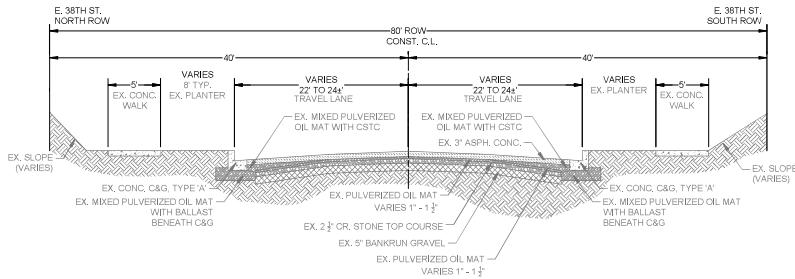
SHEET HC-2 OF HC-2



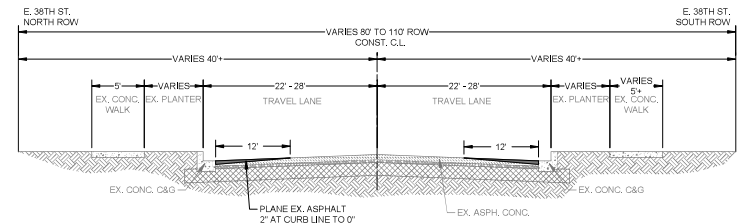
**1 EXISTING TYPICAL CROSS-SECTION**  
D-1  
E. 38TH ST.  
N.T.S.  
STA: 9+00 TO 14+89.40



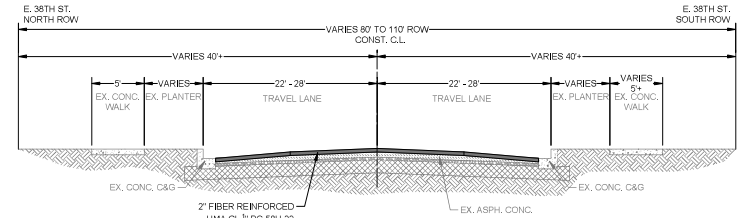
**2 EXISTING TYPICAL CROSS-SECTION**  
D-14  
E. 38TH ST.  
N.T.S.  
STA: 14+89.40 TO 16+60.40, 175  
STA: 20+10.40 TO 24+00.40, 450  
STA: 27+10.40 TO 32+05.40, 495  
STA: 37+60.40 TO 44+89.40, 729



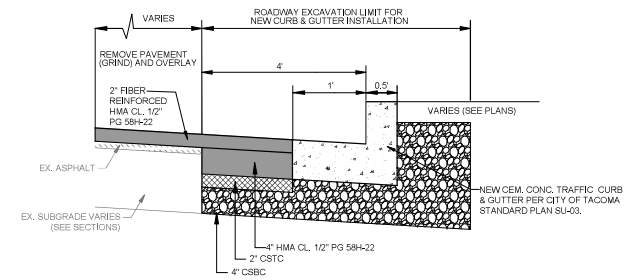
**3 EXISTING TYPICAL CROSS-SECTION**  
D-1-3  
E. 38TH ST.  
N.T.S.  
STA: 16+60.40 TO 20+10.40, 350  
STA: 24+00.40 TO 27+10.40, 350  
STA: 32+05.40 TO 37+60.40, 555



**TYPICAL DEMOLITION CROSS-SECTION**  
E. 38TH ST.  
N.T.S.



**TYPICAL CONSTRUCTION CROSS-SECTION**  
E. 38TH ST.  
N.T.S.



**4 TYPICAL ROADWAY EXCAVATION FOR NEW CURB & GUTTER INSTALLATION**  
N.T.S.

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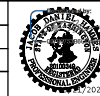
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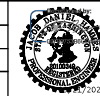
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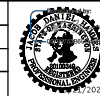
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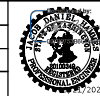
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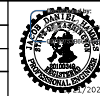
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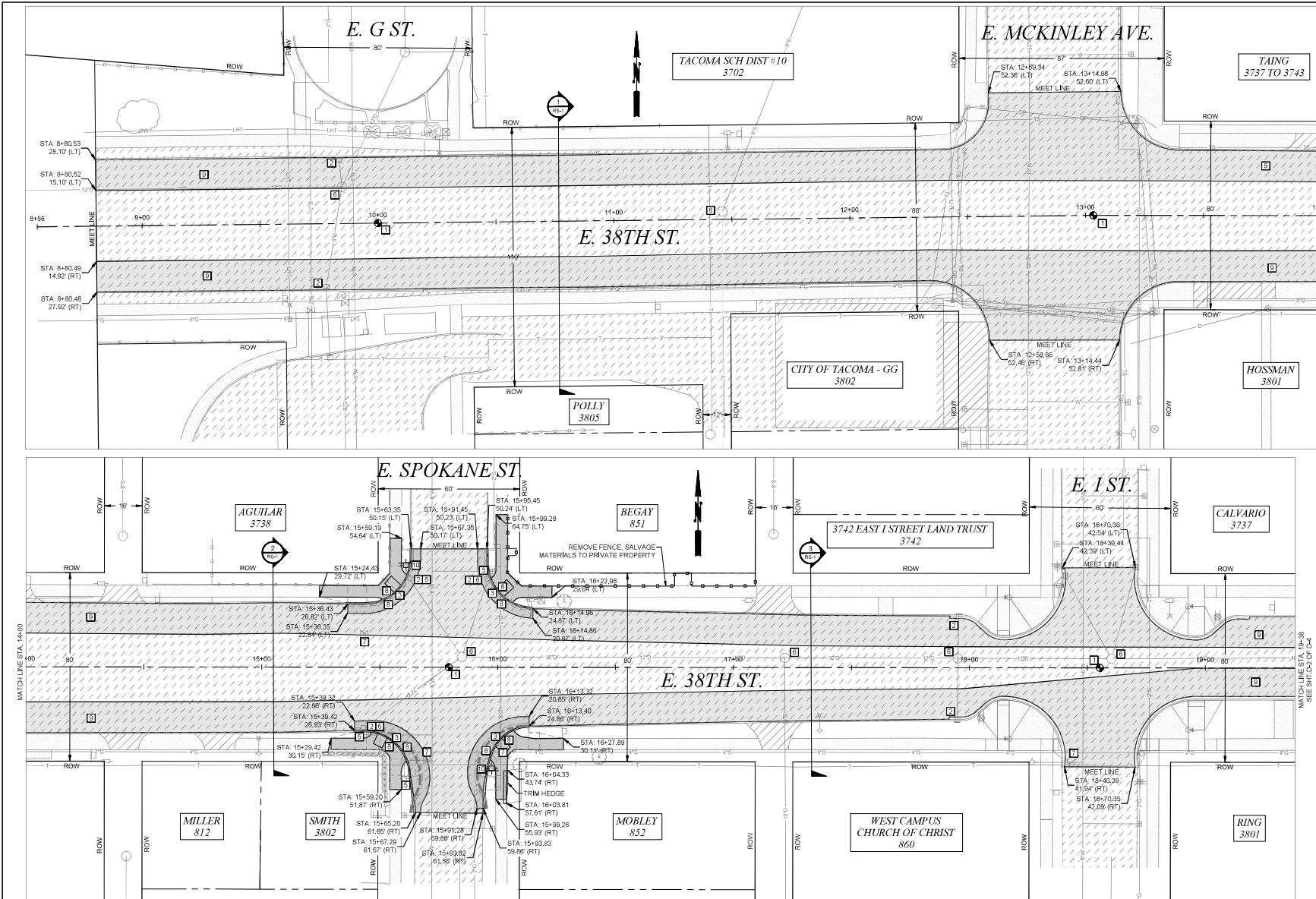
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### DEMOLITION NOTES

- REMOVE EXISTING SURVEY MONUMENT IN ACCORDANCE WITH WAC 332-120. CITY OF TACOMA (COT) SURVEY WILL SUBMIT A DEPARTMENT OF NATURAL RESOURCES (DNR) APPLICATION FOR PERMIT TO REMOVE OR DESTROY A SURVEY MONUMENT. WHEN COMPLETE, COT WILL NOTIFY CONTRACTOR WHEN TO PROCEED WITH REMOVAL OF EXISTING MONUMENT COMPLETELY. CONTRACTOR TO INSURE SUITABLE REMOVAL & RESPONSIBLE FOR INSTALLATION OF NEW 3" DIA. SURFACE BRASS DISK (DNR AND LOCATION TO BE PROVIDED BY COT). NEW DISK TO SET IN 12" DIA. CONCRETE AT 18" IN DEPTH PER COT STANDARD DWG. SU-401. CONTRACTOR TO PROVIDE ANY EXISTING NON-DAMAGED, REMOVED MONUMENT CASES TO COT FOR RE-USE.
- PROVIDE INLET PROTECTION TO EXISTING CATCH BASIN PER SPECIFICATION 8-51 UNTIL REMOVAL OR END OF CONSTRUCTION ACTIVITIES
- TO BE REMOVED
- TO BE ADJUSTED BY OTHERS
- TO BE RELOCATED BY OTHERS
- ADJUST TO GRADE PER SPECIFICATION 7-05
- ADJUST EXISTING VALVE PER CITY OF TACOMA STANDARD SU-37
- REMOVE PAVEMENT PER SPECIFICATION 2-14
- PLANE EXISTING ASPHALT PAVEMENT (REFER TO CROSS SECTION FOR MATERIAL AND DEPTHS)
- SALVAGE EXISTING SIGNS TO CITY OF TACOMA

### GENERAL NOTES:

- ALL APPROACHES SHALL BE GRADED AND PLACED TO ENSURE POSITIVE DRAINAGE.
- ADJUSTING STRUCTURES SUCH AS MANHOLES AND VALVE CHAMBERS SHALL BE DONE PER C.O.T. STANDARD DETAIL, SU-25 AND SU-37.
- WHEN REMOVING AN APPROACH THE LIMITS SHALL BE FROM THE EDGE OF THE APPROACH TO A MINIMUM OF 2' BEHIND THE NEW EDGE OF PAVEMENT.

### UTILITY NOTE:

UTILITIES SHOWN ARE FROM SUB-CONSULTANT SURVEY AND CITY OF TACOMA GIS INFORMATION AND MAY NOT BE REPRESENTATIVE OF ACTUAL LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THROUGH UTILITY LOCATE SERVICES, UTILITY AS-BUILT DRAWINGS, RECORD DRAWINGS AND POT-HOLING THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES. ALL MEANS AND METHODS TO RESEARCH AND VERIFY EXISTING UTILITY LOCATIONS SHALL BE INCIDENTAL TO THE ASSOCIATED WORK.

**CITY OF TACOMA**

HORIZ. DATUM: N.A.D. 83/91  
VERT. DATUM: N.G.V.D. 29  
BENCH MARK: SSM  
INTERSECTION OF E. 38TH ST.  
AND E. MCKINLEY AVE.  
ELEVATION = 329.15

SCALE IN FEET  
0 20 40 60

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**NO**

REVISION	DATE	APPROVED

DATE	BY	DATE	BY
SEP 2023	JH		
	REE		

SCALE: 1" = 20'

PROJECT: E. 38TH ST.

DESIGNED BY: Jack McQuinn

DATE: 9/17/2023

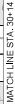
**CITY OF TACOMA**  
**DEPARTMENT OF PUBLIC WORKS**

**DEMOLITION PLAN**  
**E. 38TH ST. OVERLAY**  
**FROM SR7 TO E. PORTLAND AVE.**

**PWK-G0051**

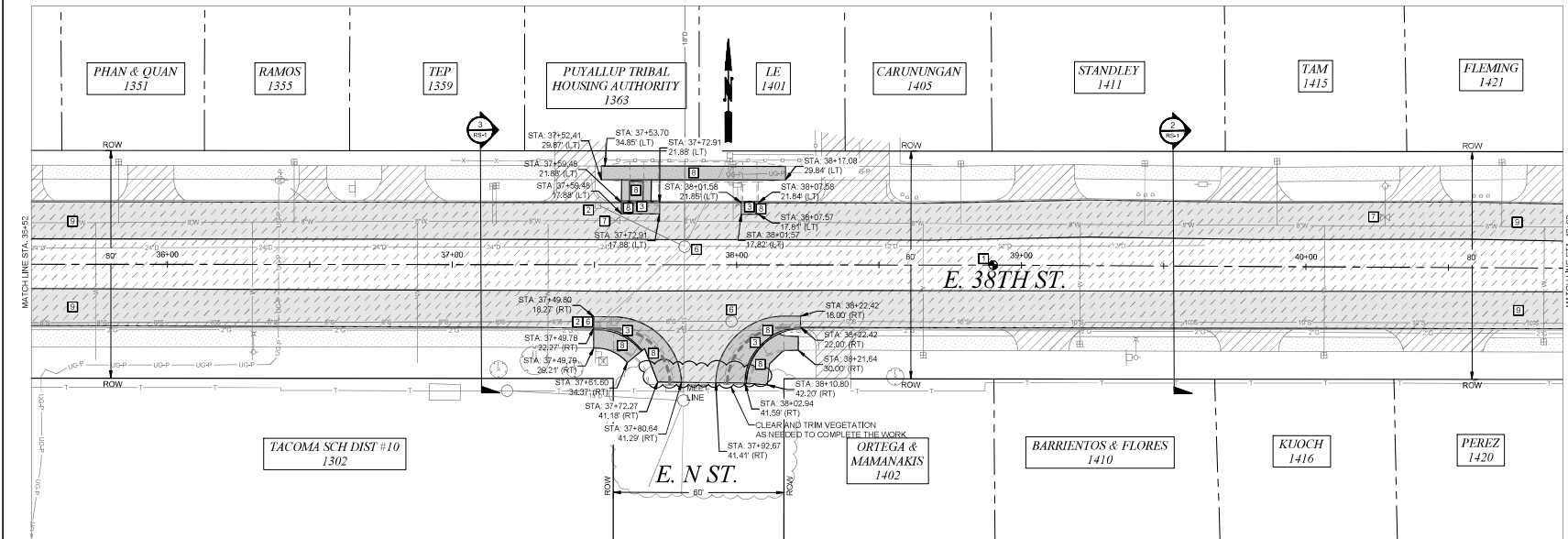
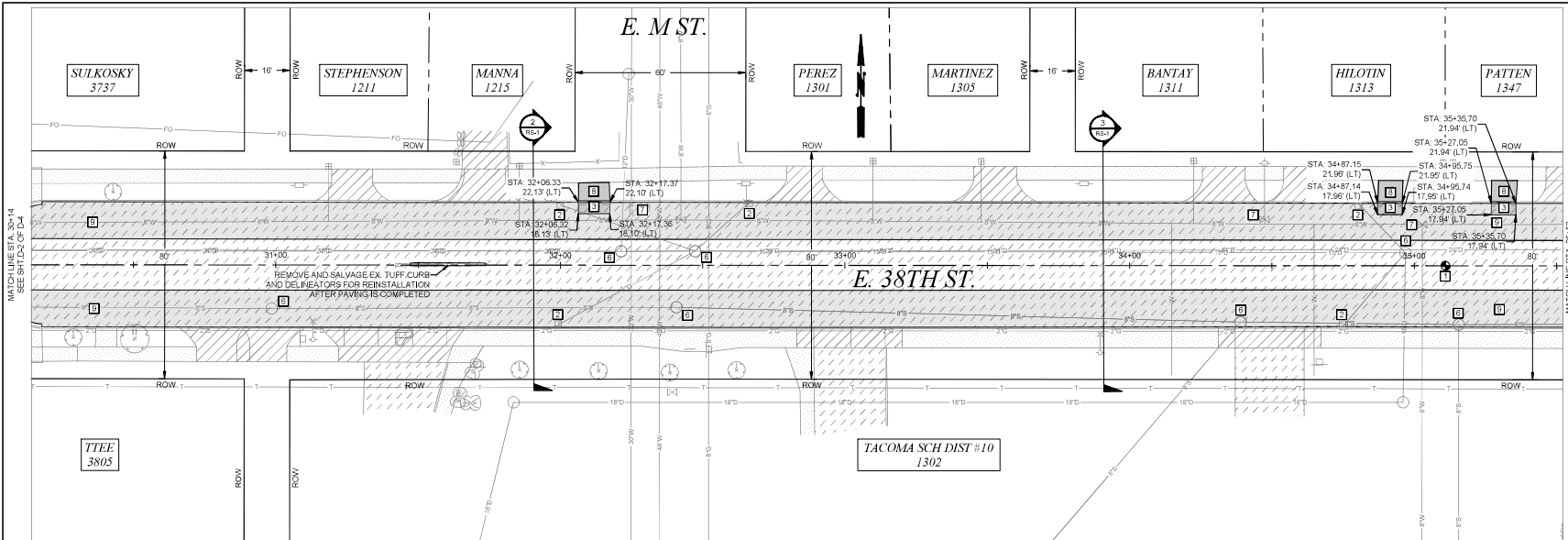
SHEET NO. **7**

SHEET **D-1** OF **D-4**



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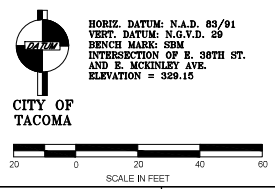


- ### DEMOLITION NOTES
- 1 REMOVE EXISTING SURVEY MONUMENT IN ACCORDANCE WITH WAC 332-120. CITY OF TACOMA (COT) SURVEY WILL SUBMIT A DEPARTMENT OF NATURAL RESOURCES (DNR) APPLICATION FOR PERMIT TO REMOVE OR DESTROY A SURVEY MONUMENT. WHEN COMPLETE, COT WILL NOTIFY CONTRACTOR WHEN TO PROCEED WITH REMOVAL OF EXISTING MONUMENT COMPLETELY. CONTRACTOR TO INSURE SUITABLE REMOVAL & RESPONSIBLE FOR INSTALLATION OF NEW 3" DIA. SURFACE BRASS DISK (BKB) AND LOCATION TO BE PROVIDED BY COT. NEW DISK TO SET IN 12" DIA. CONCRETE AT 18" IN DEPTH PER COT STANDARD DWG. SU-401. CONTRACTOR TO PROVIDE ANY EXISTING NON-DAMAGED, REMOVED MONUMENT CASES TO COT FOR RE-USE.
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  - 3 TO BE REMOVED
  - 4 TO BE ADJUSTED BY OTHERS
  - 5 TO BE RELOCATED BY OTHERS
  - 6 ADJUST TO GRADE PER SPECIFICATION 7-05
  - 7 ADJUST EXISTING VALVE PER CITY OF TACOMA STANDARD SU-37
  - 8 REMOVE PAVEMENT PER SPECIFICATION 2-14
  - 9 PLANE EXISTING ASPHALT PAVEMENT (REFER TO CROSS SECTION FOR MATERIAL AND DEPTHS)
  - 10 SALVAGE EXISTING SIGNS TO CITY OF TACOMA



- ### GENERAL NOTES:
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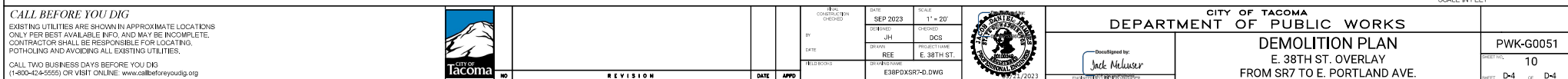
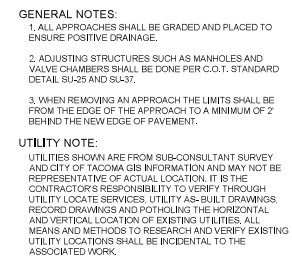
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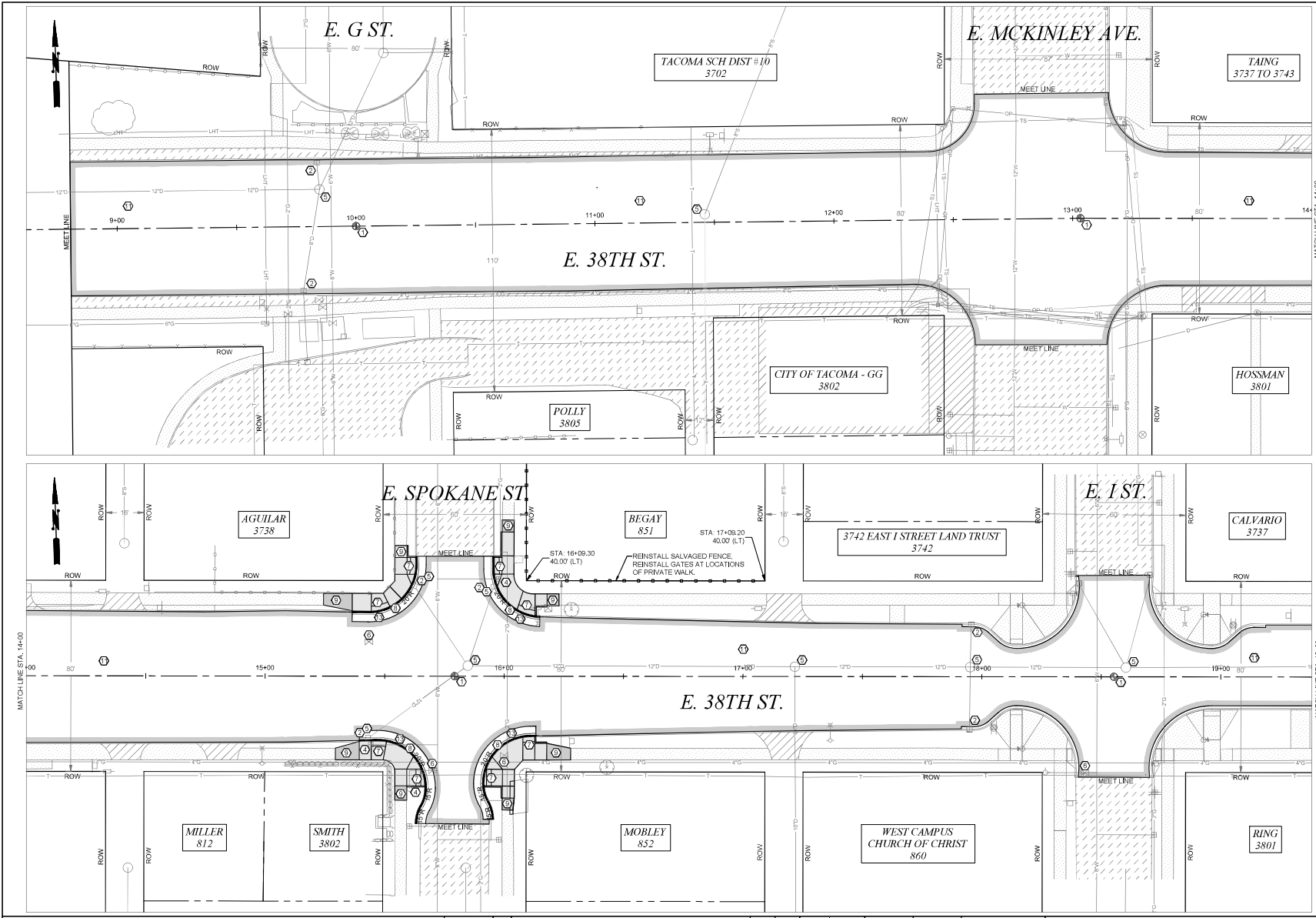


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(1-800-424-5555) OR VISIT ONLINE: [www.callbeforeyoudig.org](http://www.callbeforeyoudig.org)

CALL BEFORE YOU DIG						CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		PWK-G0051	
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CALL TWO BUSINESS DAYS BEFORE YOU DIG (1-800-424-5555) OR VISIT ONLINE: <a href="http://www.callbeforeyoudig.org">www.callbeforeyoudig.org</a>						E. 38TH ST. OVERLAY		FROM SR7 TO E. PORTLAND AVE.	
		NO		REVISION		DATE		APPRO	
						BY		SEP 2023	
						DATE		JH	
						THIS DRAWING		E38PDXSR7-D.DWG	
						DESIGNED BY		DCS	
						CHECKED BY		E. 38TH ST.	
						DESIGNED BY		Jack McInerney	
						CHECKED BY		SHEET NO. 9	
						DATE		D-3 OF D-4	






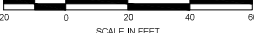




- CONSTRUCTION NOTES**
1. CONSTRUCT BRASS POURED MONUMENT PER QTY OF TACOMA STANDARD PLAN SU-01
  2. PROVIDE INLET PROTECTION TO PROPOSED CATCH BASIN PER SPECIFICATION 8-01 UNTIL END OF CONSTRUCTION ACTIVITIES
  3. TO BE ADJUSTED BY OTHERS
  4. TO BE RELOCATED BY OTHERS
  5. ADJUST TO GRADE PER SPECIFICATION 7-05
  6. ADJUST EXISTING VALVE PER CITY OF TACOMA STANDARD SU-37
  7. CONSTRUCT CEMENT CONCRETE CURB RAMP PER CITY OF TACOMA STANDARD PLAN SU-05 SERIES
  8. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER CITY OF TACOMA STANDARD PLAN SU-03
  9. CONSTRUCT CEMENT CONCRETE SIDEWALK PER CITY OF TACOMA STANDARD PLAN SU-04
  10. GRADE FOR POSITIVE DRAINAGE AND PLACE 2 INCH HMA CL 1/4 INCH PG 58H-22 OVER 2 INCH CRUSHED SURFACING TOP COURSE
  11. CONSTRUCT FIBER REINFORCED HMA CL 1/2" PG 58H-22 PAVEMENT. REFER TO CROSS SECTION FOR MATERIAL AND DEPTHS ON SHEET RS-1.
  12. GRADE FOR POSITIVE DRAINAGE AND PLACE 2 INCH CRUSHED SURFACING TOP COURSE
  13. CONSTRUCT PAVEMENT SECTION PER DETAIL 4 ON SHEET RS-1.

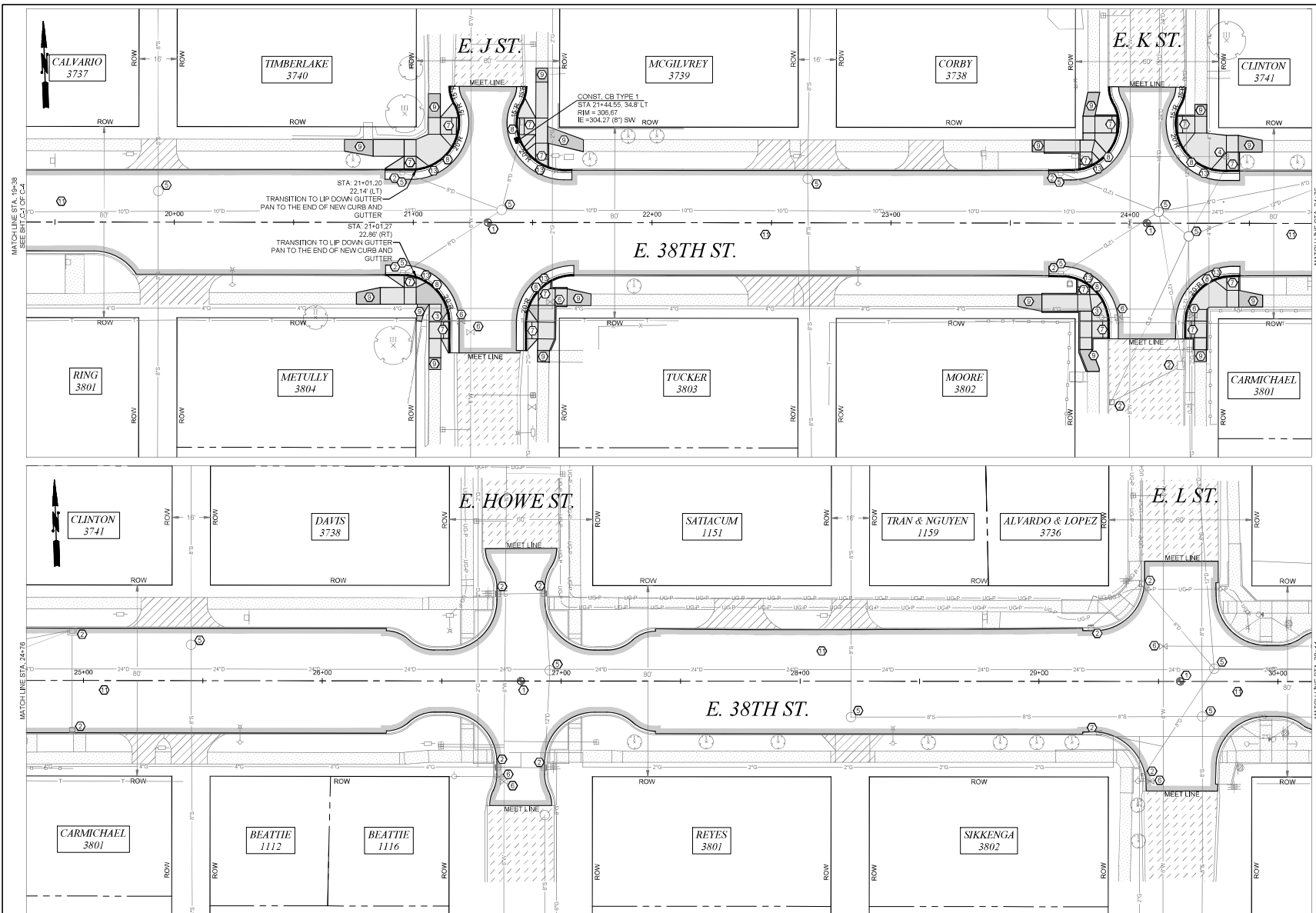
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  3. WHEN REMOVING AN APPROACH THE LIMITS SHALL BE FROM THE EDGE OF THE APPROACH TO A MINIMUM OF 7' BEHIND THE NEW EDGE OF PAVEMENT.
- UTILITY NOTE:**
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**CITY OF TACOMA**

HORIZ. DATUM: N.A.D. 83/91  
VERT. DATUM: N.G.V.D. 29  
BENCH MARK: SSM  
INTERSECTION OF E. 38TH ST.  
AND E. MCKINLEY AVE.  
ELEVATION = 329.15

  
SCALE IN FEET

<b>CALL BEFORE YOU DIG</b> EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY PER BEST AVAILABLE INFO. AND MAY BE INCOMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, POT-HOLING AND AVOIDING ALL EXISTING UTILITIES. CALL TWO BUSINESS DAYS BEFORE YOU DIG (1-800-424-5555) OR VISIT ONLINE: <a href="http://www.callbeforeyoudig.org">www.callbeforeyoudig.org</a>			<b>REVISION</b>	<b>DATE</b>	<b>APPROVED</b>	<b>DESIGNED</b> SEP 2023 JH DGS PROJECT NAME E. 38TH ST. E38PDXSR7-C.DWG		<b>CITY OF TACOMA</b> <b>DEPARTMENT OF PUBLIC WORKS</b> <b>CONSTRUCTION PLAN &amp; PROFILE</b> E. 38TH ST. OVERLAY FROM SR7 TO E. PORTLAND AVE.	<b>PWK-G0051</b> SHEET NO. 11 SHEET C-1 OF C-4
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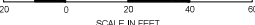
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**CITY OF TACOMA**

REVISION	DATE	APPROVED

DATE	BY	DATE	BY
SEP 2023	JH		

SCALE	PROJECT NAME	PROJECT NUMBER
1" = 20'	E. 38TH ST.	E38PDXSR7-C.DWG



Jack McQuinn  
Professional Engineer  
No. 12345  
State of Washington

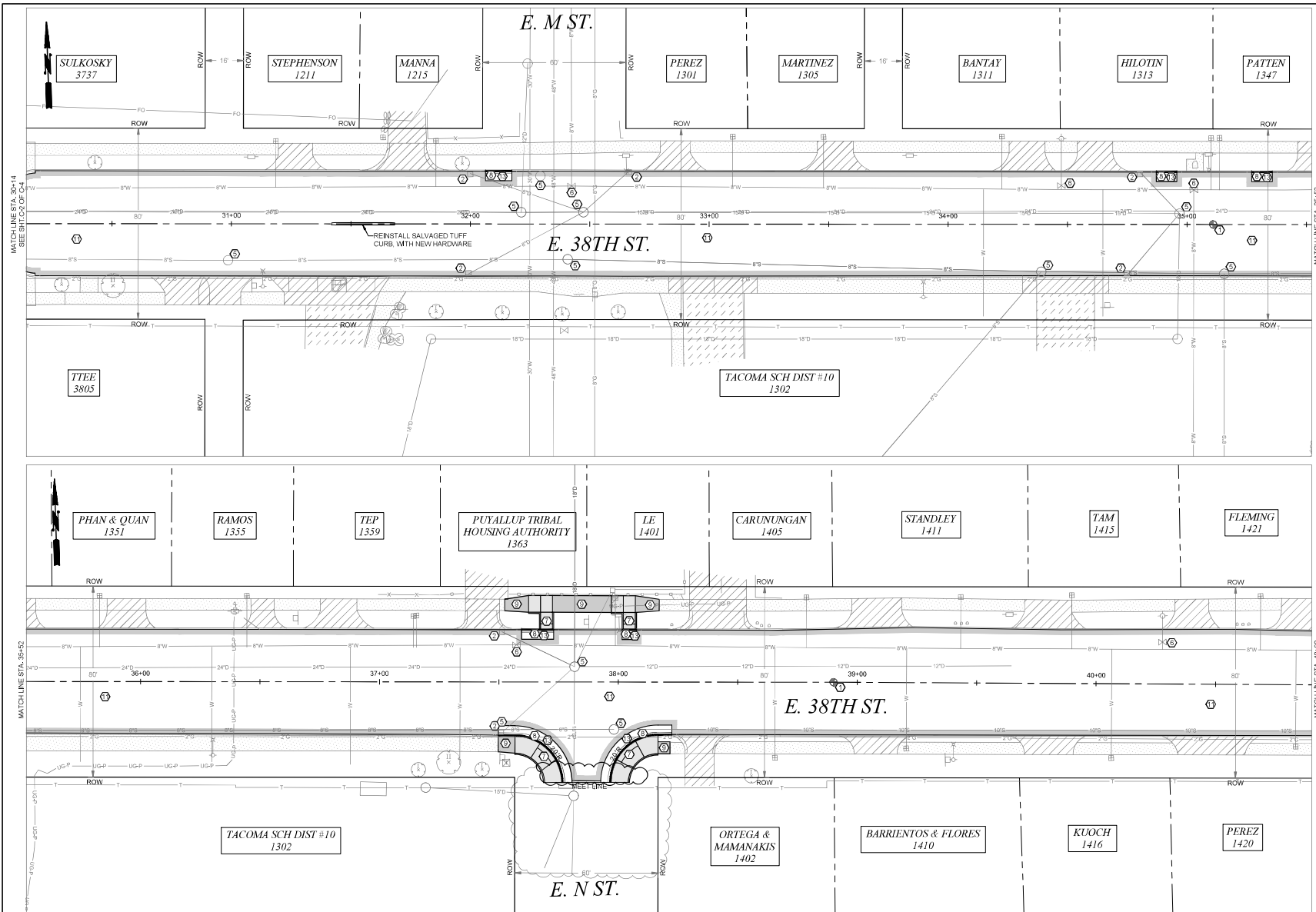
#### CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS

### CONSTRUCTION PLAN & PROFILE

E. 38TH ST. OVERLAY  
FROM SR7 TO E. PORTLAND AVE.

PWK-G0051


SHEET NO. 12  
SHEET C-2 OF C-4



- CONSTRUCTION NOTES**
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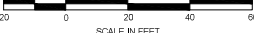
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BENCH MARK: SSM  
INTERSECTION OF E. 38TH ST.  
AND E. MCKINLEY AVE.  
ELEVATION = 329.15



SCALE IN FEET


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**NO**

REVISION	DATE	APPROVED

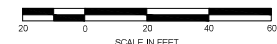
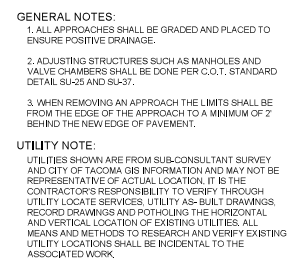
DATE: SEP 2023	SCALE: 1" = 20'
DESIGNED: JH	CHECKED: DCS
DRAWN: REE	PROJECT NAME: E. 38TH ST.
FILED: E38PDXSR7-C.DWG	



**CITY OF TACOMA**  
**DEPARTMENT OF PUBLIC WORKS**  
**CONSTRUCTION PLAN & PROFILE**  
E. 38TH ST. OVERLAY  
FROM SR7 TO E. PORTLAND AVE.

Designed by:  
  
JACK MCLAWAR

PWK-G0051
SHEET NO. 13
SHEET C-3 OF C-4



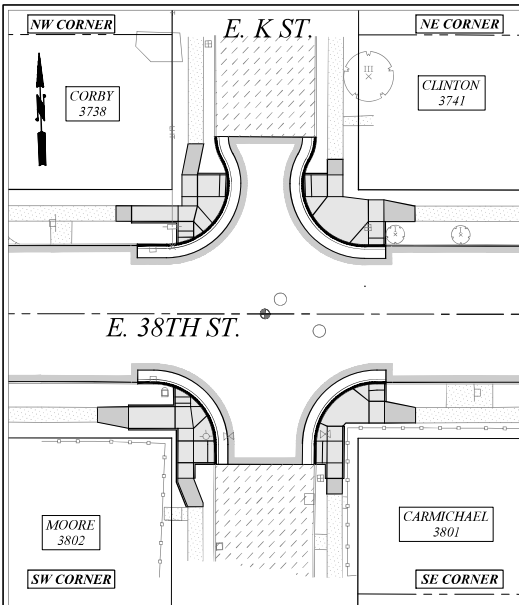
PWK-G0051	
SHEET NO.	14
DATE	C-4











SCALE: 1" = 20'

**GENERAL NOTES:**

- 1) CONTRACTOR SURVEY CREWS TO STAKE PROPOSED CURB RAMPS.
- 2) CONTRACTOR SHALL NOT DEVIATE FROM DESIGN.
- 3) BY CONVENTION SLOPE ARROWS POINT DOWNHILL.

MATCH EXISTING: ME  
GUTTER GRADE: GG  
BACK OF CURB: BOC  
TOP BACK OF CURB: TBC



HORIZ. DATUM: N.A.D. 83/91  
VERT. DATUM: N.G.V.D. 29  
BENCH MARK: SBM  
INTERSECTION OF E. 38TH ST.  
AND E. MCKINLEY AVE.  
ELEVATION = 328.15

CITY OF  
TACOMA



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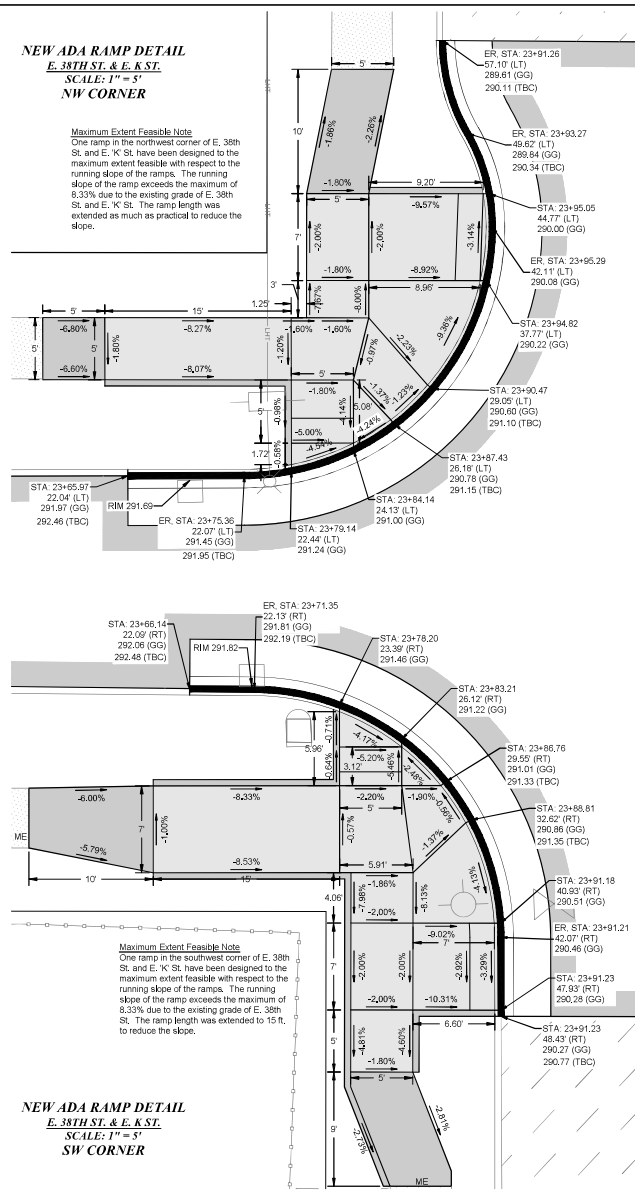
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NO.	REVISION	DATE	APPROVED
1	NEW ADA RAMP DETAIL E. 38TH ST. & E. K ST. SCALE: 1" = 5' NW CORNER		
2	NEW ADA RAMP DETAIL E. 38TH ST. & E. K ST. SCALE: 1" = 5' SW CORNER		
3	NEW ADA RAMP DETAIL E. 38TH ST. & E. K ST. SCALE: 1" = 5' NE CORNER		
4	NEW ADA RAMP DETAIL E. 38TH ST. & E. K ST. SCALE: 1" = 5' SE CORNER		

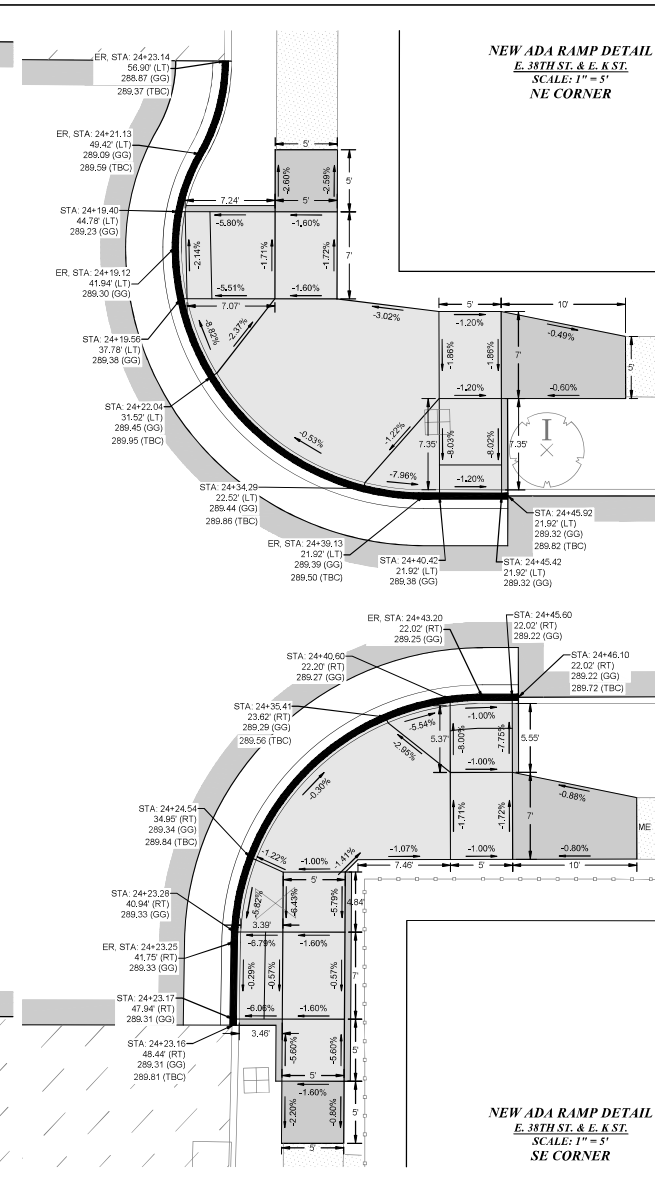
**NEW ADA RAMP DETAIL  
E. 38TH ST. & E. K ST.  
SCALE: 1" = 5'  
NW CORNER**

**Maximum Extent Feasible Note**  
One ramp in the northwest corner of E. 38th St. and E. K St. have been designed to the maximum extent feasible with respect to the running slope of the ramps. The running slope of the ramp exceeds the maximum of 8.33% due to the existing grade of E. 38th St. and E. K St. The ramp length was extended as much as practical to reduce the slope.



**NEW ADA RAMP DETAIL  
E. 38TH ST. & E. K ST.  
SCALE: 1" = 5'  
SW CORNER**

**Maximum Extent Feasible Note**  
One ramp in the southwest corner of E. 38th St. and E. K St. have been designed to the maximum extent feasible with respect to the running slope of the ramps. The running slope of the ramp exceeds the maximum of 8.33% due to the existing grade of E. 38th St. and E. K St. The ramp length was extended to 15 ft. to reduce the slope.

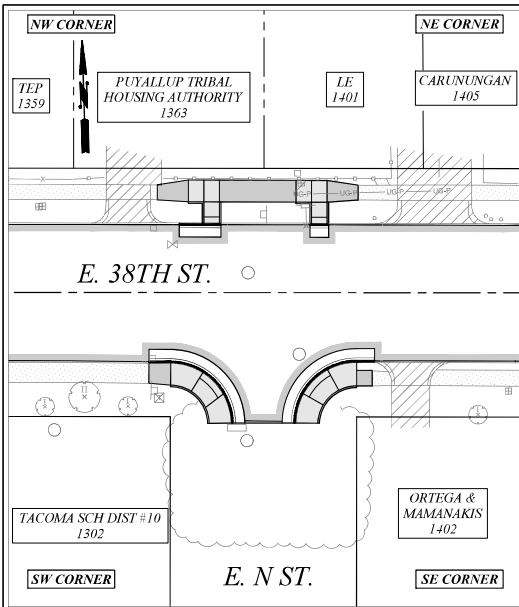


**NEW ADA RAMP DETAIL  
E. 38TH ST. & E. K ST.  
SCALE: 1" = 5'  
NE CORNER**

**NEW ADA RAMP DETAIL  
E. 38TH ST. & E. K ST.  
SCALE: 1" = 5'  
SE CORNER**



CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		PWK-G0051 SHEET NO. 17 IRP-3 OF IRP-4
INTERSECTION & RAMP DETAILS E. 38TH ST. OVERLAY AT INTERSECTION OF E. K ST.		
DESIGNED BY Jude Meluskey	CHECKED BY JH DCS	
DATE SEP 2023	PROJECT NAME E. 38TH ST.	
DATE SEP 2023	PROJECT NUMBER E38PDXS7-RP-DWG	



#### GENERAL NOTES:

- 1) CONTRACTOR SURVEY CREWS TO STAKE PROPOSED CURB RAMP.
- 2) CONTRACTOR SHALL NOT DEVIATE FROM DESIGN.
- 3) BY CONVENTION SLOPE ARROWS POINT DOWNHILL.

MATCH EXISTING: ME  
GUTTER GRADE: GG  
BACK OF CURB: BOC  
TOP BACK OF CURB: TBC

**HORIZ. DATUM: N.A.D. 83/91**  
**VERT. DATUM: N.G.V.D. 29**  
**BENCH MARK: SBM**  
**INTERSECTION OF E. 38TH ST. AND E. MCKINLEY AVE.**  
**ELEVATION = 329.15**

**CITY OF TACOMA**



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NO	REVISION	DATE	APPRO

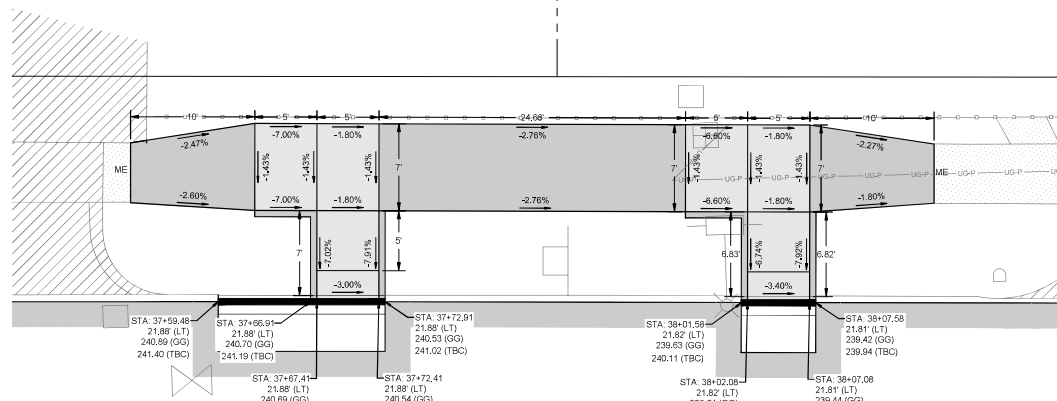
DESIGNER	SEP 2023	SCALE	AS NOTED
BY	JH	CHECKED	DCS
DATE		PROJECT NAME	E. 38TH ST.
REVISIONS		DESIGNED BY	E38PDXSR7-RP.DWG



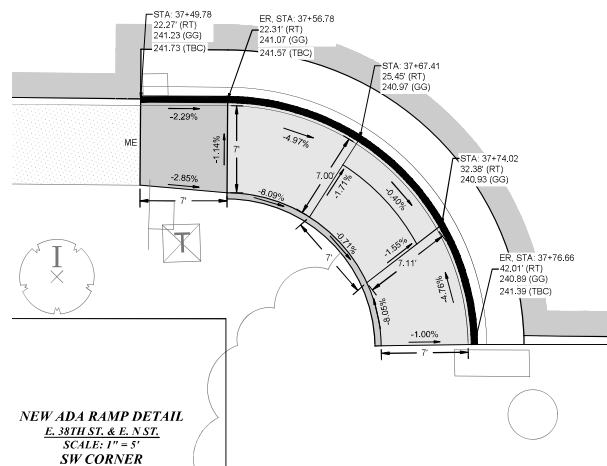
DESIGNED BY  
**Jack McInerney**  
E38PDXSR7-RP.DWG

CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		PWK-G0051
INTERSECTION & RAMP DETAILS E. 38TH ST. OVERLAY AT INTERSECTION OF E. N ST.		SHEET NO. 18
		IRP-4 OF IRP-4

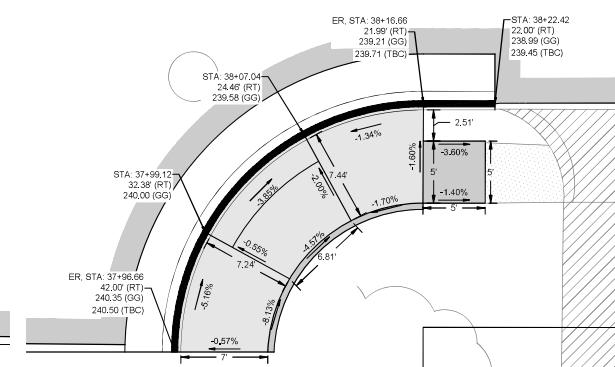
**NEW ADA RAMP DETAIL**  
**E. 38TH ST. & E. N ST.**  
**SCALE: 1" = 5'**  
**NW CORNER**



**NEW ADA RAMP DETAIL**  
**E. 38TH ST. & E. N ST.**  
**SCALE: 1" = 5'**  
**NE CORNER**

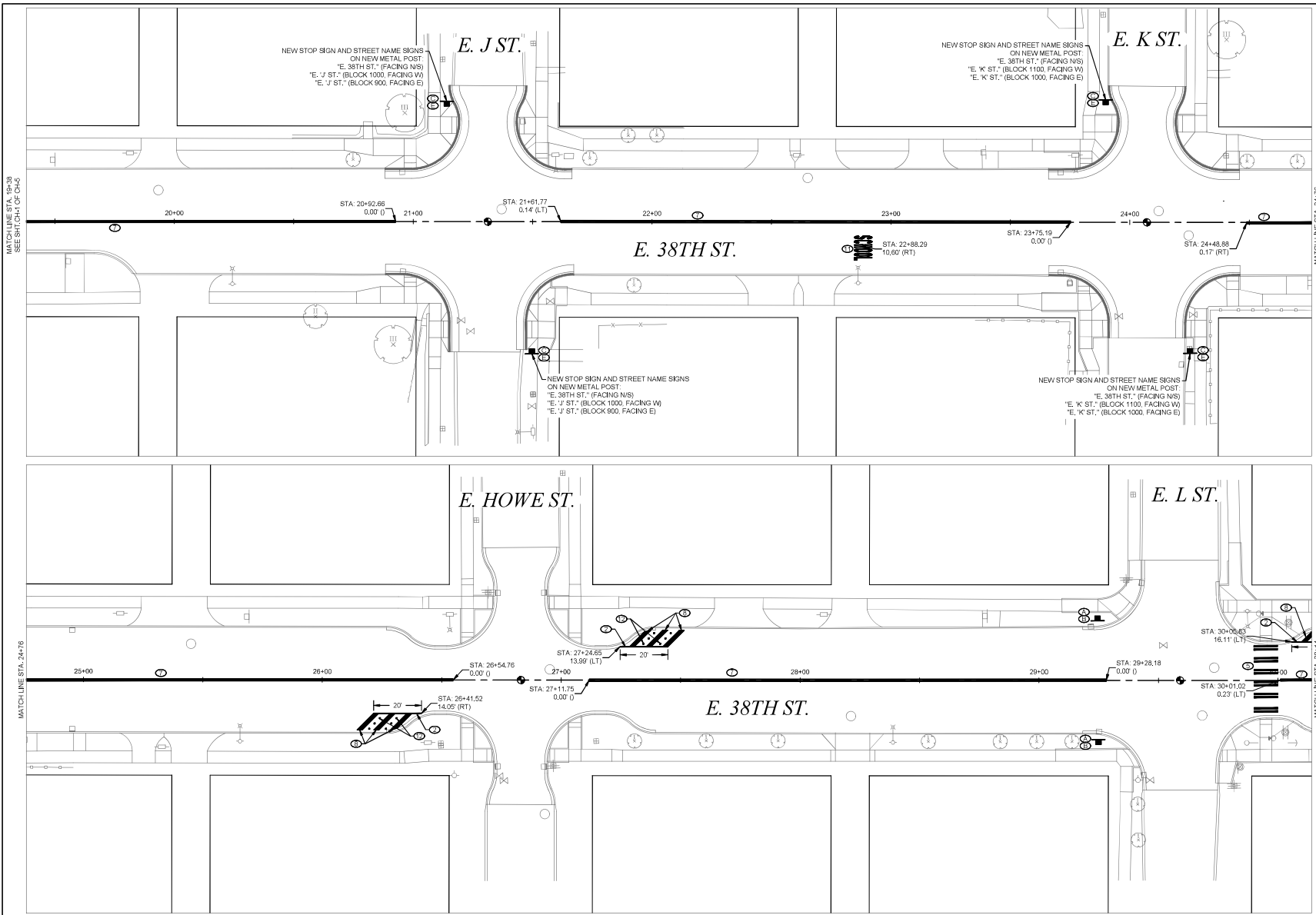


**NEW ADA RAMP DETAIL**  
**E. 38TH ST. & E. N ST.**  
**SCALE: 1" = 5'**  
**SW CORNER**



**NEW ADA RAMP DETAIL**  
**E. 38TH ST. & E. N ST.**  
**SCALE: 1" = 5'**  
**SE CORNER**





SEE SHEET CH-5 FOR GENERAL NOTES  
RELATING TO CHANNELIZATION AND  
SIGNING

#### CHANNELIZATION NOTES

- ① 4" WHITE LANE LINE, THERMOPLASTIC, PER STD. PLAN CH-43A
- ② 4" WHITE EDGE LINE, THERMOPLASTIC, PER STD. PLAN CH-43B
- ③ 6" WHITE GORE LINE, THERMOPLASTIC, PER COT STD. PLAN CH-43A
- ④ 6" WHITE DOTTED EXTENSION LINE, THERMOPLASTIC, PER COT STD. PLAN CH-43B
- ⑤ PEDESTRIAN CROSSWALK, THERMOPLASTIC, PER COT STD. PLAN CH-42
- ⑥ 16" WHITE STOP BAR, THERMOPLASTIC, PER COT STD. PLAN CH-42
- ⑦ DOUBLE YELLOW CENTER LINE, THERMOPLASTIC, PER COT STD. PLAN CH-42A & CH-45
- ⑧ 24" WHITE STRIPE AT 45°, THERMOPLASTIC
- ⑨ WHITE "ONLY" LANE MARKING, THERMOPLASTIC, PER COT STD. PLANS CH-49 & CH-10
- ⑩ WHITE TURN LANE ARROW, THERMOPLASTIC, PER COT STD. PLANS CH-49 & CH-10
- ⑪ WHITE "SCHOOL" MARKING DETAIL, THERMOPLASTIC, PER COT STD. PLAN CH-10
- ⑫ TYPE 2V RAISED PAVEMENT MARKERS, AT EQUAL SPACING FROM ALL ELEMENTS

#### SIGNING NOTES

SEE COT STANDARD PLAN SU-34

TYPE	DESCRIPTION	SIZE	PROL. QTY.
R9-3	NO PEDESTRIAN CROSSING	18" X 18"	
R9-3BP	USE CROSSWALK (PLAQUE)	18" X 12"	
C3-1	STREET NAME SIGN	VARIES	
R3-8 MOD	ADVANCED INTERSECTION LANE CONTROL (MODIFIED)	30" X 30"	
R1-1	STOP	30" X 30"	
W14-1	DEAD END	30" X 30"	
①	DELINEATORS		
② OM3 (L)	OBJECT MARKERS (LEFT)		
③ R3-8 MOD	ADVANCED INTERSECTION LANE CONTROL (MODIFIED)	36" X 36"	

#### LEGEND

- EXISTING SIGN MOUNTED ON POST
- EXISTING SIGN MOUNTED ON POLE
- ✕ REMOVE AND SALVAGE POST AND SIGN
- ✕ REMOVE AND SALVAGE SIGN FROM POLE
- INSTALL NEW SIGN ON EXISTING POST
- INSTALL NEW SIGN ON EXISTING POLE
- INSTALL NEW SIGN AND POST
- RE-INSTALL EXISTING SIGN ON NEW POST
- NEW MAST ARM MOUNTED SIGN
- ✕ EXISTING STREET NAME SIGN(S)
- ✕ REMOVE & SALVAGE STREET NAME SIGN(S)
- ✕ NEW STREET NAME SIGN(S)

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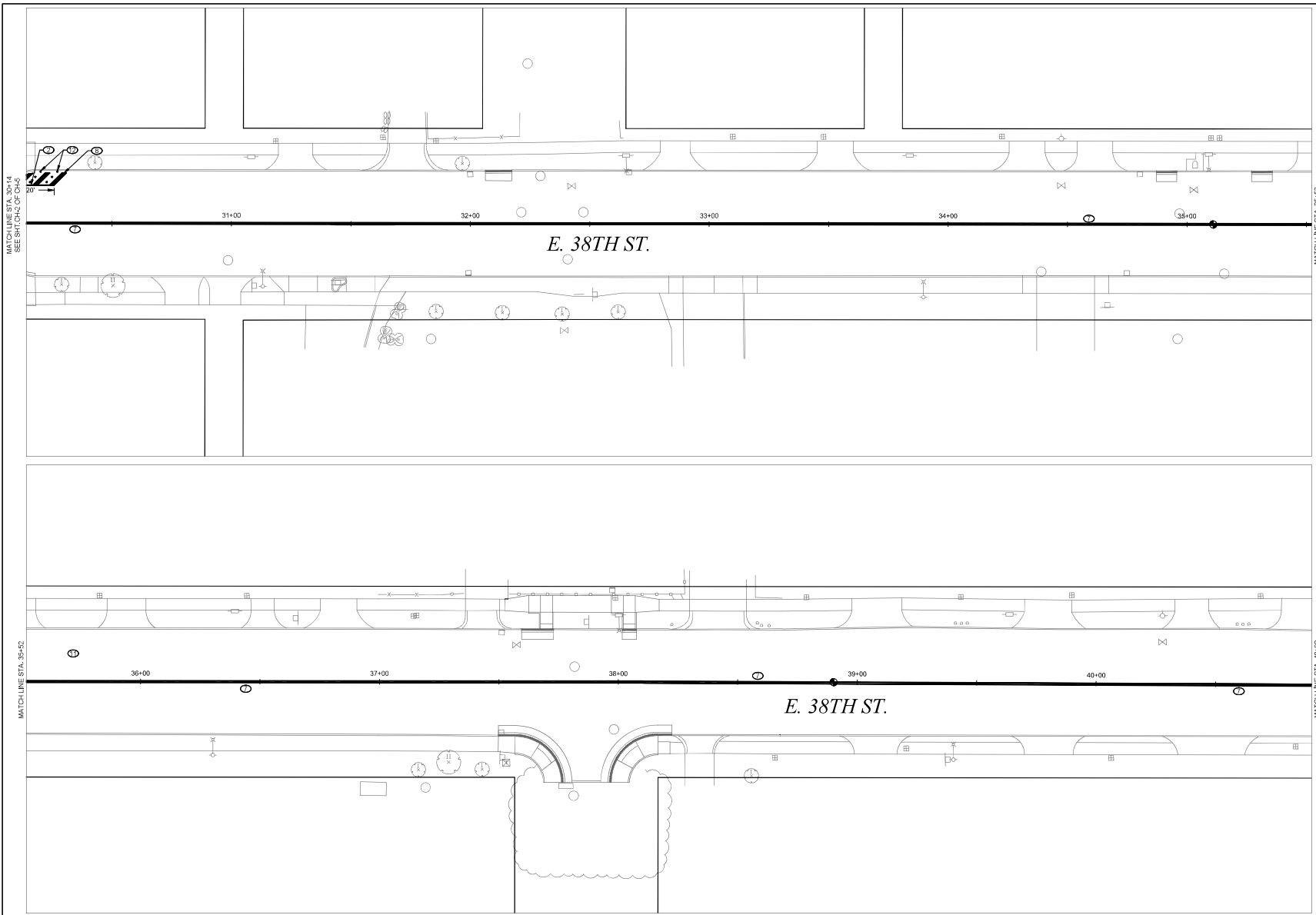
NO.	REVISION	DATE	APPROVED

DATE	SEP 2023
BY	JH
DATE	
BY	

SCALE	1" = 20'
DATE	SEP 2023
BY	DCS
DATE	
BY	



CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		PWK-G0051
CHANNELIZATION PLAN E. 38TH ST. OVERLAY FROM SR7 TO E. PORTLAND AVE.		
Designed by: Jack McQuar		SHEET NO. 20
DRAWN BY: JH		SHEET CH-2 OF CH-5



SEE SHEET CH-5 FOR GENERAL NOTES  
RELATING TO CHANNELIZATION AND  
SIGNING

- CHANNELIZATION NOTES**
- ① 4" WHITE LANE LINE, THERMOPLASTIC, PER STD. PLAN CH-43A
  - ② 6" WHITE EDGE LINE, THERMOPLASTIC, PER STD. PLAN CH-43B
  - ③ 6" WHITE GORE LINE, THERMOPLASTIC, PER COT STD. PLAN CH-43A
  - ④ 6" WHITE DOTTED EXTENSION LINE, THERMOPLASTIC, PER COT STD. PLAN CH-43B
  - ⑤ PEDESTRIAN CROSSWALK, THERMOPLASTIC, PER COT STD. PLAN CH-42
  - ⑥ 16" WHITE STOP BAR, THERMOPLASTIC, PER COT STD. PLAN CH-42
  - ⑦ DOUBLE YELLOW CENTER LINE, THERMOPLASTIC, PER COT STD. PLAN CH-42A & CH-45
  - ⑧ 24" WHITE STRIPE AT 45°, THERMOPLASTIC
  - ⑨ WHITE "ONLY" LANE MARKING, THERMOPLASTIC, PER COT STD. PLANS CH-49 & CH-10
  - ⑩ WHITE TURN LANE ARROW, THERMOPLASTIC, PER COT STD. PLANS CH-49 & CH-10
  - ⑪ WHITE "SCHOOL" MARKING DETAIL, THERMOPLASTIC, PER COT STD. PLAN CH-10
  - ⑫ TYPE 2V RAISED PAVEMENT MARKERS, AT EQUAL SPACING FROM ALL ELEMENTS

**SIGNING NOTES**

SEE COT STANDARD PLAN SU-34

TYPE	DESCRIPTION	SIZE	PROL. QTY.
R9-3	NO PEDESTRIAN CROSSING	18" X 18"	
R9-3BP	USE CROSSWALK (PLAQUE)	18" X 12"	
C3-1	STREET NAME SIGN	VARIES	
R3-8 MOD	ADVANCED INTERSECTION LANE CONTROL (MODIFIED)	30" X 30"	
R1-1	STOP	30" X 30"	
W14-1	DEAD END	30" X 30"	
	DELINEATORS		
OM3 (L)	OBJECT MARKERS (LEFT)		
R3-8 MOD	ADVANCED INTERSECTION LANE CONTROL (MODIFIED)	36" X 36"	

- LEGEND**
- EXISTING SIGN MOUNTED ON POST
  - EXISTING SIGN MOUNTED ON POLE
  - REMOVE AND SALVAGE POST AND SIGN
  - REMOVE AND SALVAGE SIGN FROM POLE
  - INSTALL NEW SIGN ON EXISTING POST
  - INSTALL NEW SIGN ON POLE
  - RE-INSTALL EXISTING SIGN ON NEW POST
  - NEW MAST ARM MOUNTED SIGN
  - EXISTING STREET NAME SIGN(S)
  - REMOVE & SALVAGE STREET NAME SIGN(S)
  - NEW STREET NAME SIGN(S)

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(1-800-424-5555) OR VISIT ONLINE: [www.callbeforeyoudig.org](http://www.callbeforeyoudig.org)



NO.	REVISION	DATE	APPROVED

DATE	SEP 2023
BY	JH
DATE	
BY	



DESIGNED BY:  
*Jack McInerney*  
PROJECT NAME:  
E. 38TH ST.

CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS

**CHANNELIZATION PLAN**  
E. 38TH ST. OVERLAY  
FROM SR7 TO E. PORTLAND AVE.

PWK-G0051

SHEET NO. 21  
SHEET CH-3 OF CH-5






GENERAL CHANNELIZATION NOTES	
1.	THE CITY OF TACOMA TRAFFIC ENGINEERING SECTION SHALL BE NOTIFIED AT LEAST THREE (3) BUSINESS DAYS PRIOR TO STARTING ANY STRIPING WORK.
2.	UNLESS OTHERWISE SPECIFIED, ALL PAVEMENT MARKING INSTALLATIONS AND REMOVALS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE CITY'S SPECIFICATIONS. ITEMS NOT COVERED UNDER THE CITY SPECIFICATIONS SHALL CONFORM TO THE WSDOT/APWA STANDARD SPECIFICATIONS AND THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS ADOPTED AND MODIFIED BY WASHINGTON ADMINISTRATIVE CODE (WAC) 468-065.
3.	TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE MOST RECENT EDITION OF THE CITY OF TACOMA TRAFFIC CONTROL HANDBOOK, THE MUTCD, AND/OR AS DIRECTED BY THE CITY OF TACOMA.
4.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF THE PERMANENT PAVEMENT MARKINGS. PAVEMENT MARKING DIMENSIONS ARE TO THE CENTER OF THE STRIPE FOR SINGLE-LINE STRIPING AND TO THE CENTER OF THE GAP BETWEEN THE TWO LINES FOR DOUBLE-LINE STRIPING. WHERE CURB AND GUTTER ARE PRESENT, DIMENSIONS ARE TO THE FACE OF CURB, OR TO THE EDGE OF PAVEMENT ABSENT CURB AND GUTTER. THE CONTRACTOR SHALL SCHEDULE INSPECTION OF THE PAVEMENT MARKING LAYOUT AT LEAST THREE (3) BUSINESS DAYS PRIOR TO THE INSTALLATION OF THE PERMANENT PAVEMENT MARKINGS. INSPECTION SHALL TAKE PLACE DURING DAYTIME AND ON A BUSINESS DAY PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS. ANY PERMANENT PAVEMENT MARKINGS APPLIED PRIOR TO FIELD INSPECTION BY THE TRAFFIC ENGINEERING SECTION SHALL BE REMOVED AND RE-STRIPED AT THE CONTRACTOR'S EXPENSE.
5.	THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, NOTES, DETAILS, AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING, MARKINGS, AND MARKERS. THE CHANNELIZATION PLANS MAY BE MODIFIED AS DIRECTED BY THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL REFER ANY QUESTIONS CONCERNING PAVEMENT MARKINGS TO THE TRAFFIC ENGINEERING SECTION VIA THE CITY'S CONSTRUCTION INSPECTOR FOR THE PROJECT.
6.	GENERALLY, RAISED PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED IN CONJUNCTION WITH STRIPING EFFORTS AND IN ACCORDANCE WITH CITY OF TACOMA STANDARD PLANS. EXCEPTIONS ARE POSSIBLE. COORDINATE WITH THE CITY'S TRAFFIC ENGINEERING SECTION. ALL MARKERS SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF APPROACHING TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
7.	THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS AND STRIPING IN CONFLICT WITH OR CONTRARY TO THE FINAL STRIPING PLAN BY HYDRO-BLASTING OR OTHER APPROVED NONINVASIVE METHOD. ALL REMOVAL METHODS SHALL BE DONE IN CONFORMANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS. IF THE REMOVAL DAMAGES THE UNDERLYING PAVEMENT AS DESCRIBED IN THE WSDOT/APWA STANDARD SPECIFICATIONS, THEN THE PAVEMENT SHALL BE RESTORED TO A STATE EQUALING OR EXCEEDING ITS PREVIOUS STATE. IF THE OBLITERATION CAUSES SHADOWING (OR "GHOST" MARKINGS), OR IN THE OPINION OF THE CITY TRAFFIC ENGINEER WILL CAUSE CONFUSION TO DRIVERS, THE CONTRACTOR SHALL REMEDY THROUGH AN APPROVED MEANS AND METHOD. APPLYING ADDITIONAL MARKINGS TO OBSCURE ERRONEOUS MARKINGS IS NOT AN APPROVED METHOD FOR OBLITERATION. STRIPING OBLITERATION MAY NEED TO EXCEED THE CITY OF TACOMA, RIGHT-OF-WAY DESIGN MANUAL, ISSUED JANUARY 7, 2016 CHAPTER 7-14 ERRATA VERSION JULY 2016 PROJECT LIMITS SO THAT THE NEW STRIPING WILL MATCH PERMANENT EXISTING PAVEMENT MARKINGS.
8.	THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE CITY BY POWER BROOM, STREET SWEEPING, AIR JET BLOWING, AND/OR WATER JET/TRUCK PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS UNLESS DIRECTED OTHERWISE. THE ROAD PAVEMENT SURFACE CONDITIONS, INCLUDING ANY PAVEMENT CURING TIMES, SHALL BE IN ACCORDANCE WITH THE WSDOT/APWA STANDARD SPECIFICATIONS PRIOR TO THE APPLICATION OF PERMANENT PAVEMENT MARKINGS.
9.	PERMANENT PAVEMENT MARKINGS SHOULD BE FULLY IMPLEMENTED BEFORE ALLOWING PUBLIC USE OF THE ROADWAY. TEMPORARY PAVEMENT MARKINGS CONTROLLING TRAFFIC AS INTENDED BY THE PERMANENT CHANNELIZATION PLANS MAY BE PERMISSIBLE IN THE CASE WHERE PAVEMENT CONDITIONS/MATERIALS PRECLUDE IMPLEMENTATION OF THE PERMANENT PAVEMENT MARKINGS UNTIL A LATER TIME. TEMPORARY MARKINGS SHALL NOT BE USED ANY LONGER THAN NECESSARY AND NO LONGER THAN ONE (1) MONTH, UNLESS OTHERWISE APPROVED OR MITIGATED, WHICH MAY INCLUDE A RE-APPLICATION OF THE TEMPORARY MARKINGS.

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CALL TWO BUSINESS DAYS BEFORE YOU DIG (1-800-424-5555) OR VISIT ONLINE: [www.callbeforeyoudig.org](http://www.callbeforeyoudig.org)

GENERAL SIGNING NOTES	
1.	THE CITY OF TACOMA TRAFFIC ENGINEERING SECTION SHALL BE NOTIFIED AT LEAST THREE (3) BUSINESS DAYS PRIOR TO STARTING ANY SIGNING WORK.
2.	TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE MOST RECENT EDITION OF THE CITY OF TACOMA TRAFFIC CONTROL HANDBOOK, THE MUTCD, AND/OR AS DIRECTED BY THE CITY OF TACOMA.
3.	ALL SIGNS SHALL CONFORM TO THE MUTCD WITH RESPECT TO COLORS, SHAPE, SIZE, CONTENT, RETROREFLECTIVITY, AND PLACEMENT RELATIVE TO THE ROADWAY. ALL SIGN PANELS SHALL BE DORNBURCH THICK ALUMINUM (NON-RECYCLED) WITH PRISMATIC SHEETING (TYPE IV OR BETTER, OR AS SPECIFIED). SIGN POSTS SHALL BE 1/2 INCH SQUARE PERFORATED GALVANIZED STEEL TUBING PER CITY STANDARD PLANS, UNLESS OTHERWISE SPECIFIED.
4.	THE CONTRACTOR SHALL SUBMIT ALL SIGN FORMATS/LAYOUTS (WITH DIMENSIONS) TO THE CITY'S TRAFFIC ENGINEERING SECTION FOR APPROVAL PRIOR TO FABRICATION.
5.	ANY TRAFFIC SIGNS, INCLUDING STREET NAME SIGNS, WHICH ARE IN CLOSE PROXIMITY TO AN EXISTING OR PROPOSED STREET LIGHT POLE (CONFER WITH TRAFFIC ENGINEERING IN ADVANCE FOR APPROVAL), SHALL BE PROPERLY MOUNTED TO THE POLE INSTEAD OF INSTALLING A NEW SIGN POST. ANY ADDED EXPENSE RELATING TO A NEED FOR DIFFERENT MOUNTING HARDWARE AND/OR EQUIPMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PRIOR TO INSTALLATION, SIGN LOCATIONS AND OFFSETS MAY BE ADJUSTED BY THE CITY TO IMPROVE VISIBILITY OR SAFETY.
6.	ANY EXISTING SIGNS THAT NEED TO BE REMOVED AS A RESULT OF CONSTRUCTION, OR DUE TO CONFLICT WITH INSTALLED SIGNS, SHALL BE DONE SO BY THE CONTRACTOR AT THEIR EXPENSE. THESE SIGNS SHALL BE REMOVED, PROTECTED, AND STORED FOR POSSIBLE REINSTALLATION BY THE CONTRACTOR OR FOR SALVAGING AND RETURNING TO THE CITY. SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
7.	THE CONTRACTOR SHALL ENSURE THAT AT NO TIME A TRAFFIC SIGN IS INSTALLED IN SUCH A WAY AS TO BE BLOCKED BY TREES OR VEGETATION, EITHER EXISTING OR PENDING. ALL SIGN LOCATIONS SHALL NOT INTERFERE WITH PEDESTRIAN MOVEMENT AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT (ADA) AND/OR PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). IN BOTH OF THESE CASES, THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING SECTION TO PROVIDE AN ALTERNATE LOCATION FOR THE INSTALLATION OF THE SIGN(S) IN QUESTION.
8.	TEMPORARY SIGNS INSTALLED FOR CONSTRUCTION PURPOSES SHALL BE TO BE MOUNTED IN THE LEAST INTRUSIVE LOCATIONS AND MANNER AS POSSIBLE TO MINIMIZE DAMAGE TO SIDEWALKS OR BLOCKING OF OTHER SIGNS/TRAFFIC CONTROL DEVICES. USE OF EXISTING SIGN POSTS AND STREET LIGHT POLES IS PREFERRED. ANY DAMAGE TO CITY INFRASTRUCTURE CAUSED BY TEMPORARY SIGN INSTALLATIONS SHALL BE RESTORED UPON REMOVAL OF THE TEMPORARY SIGN/POST.



NO

REVISION

DATE

APPRO

DESIGNED BY  
SEP 2023  
JH

SCALE  
1" = 20'


CHECKED BY  
DCS

DRAWN BY  
REE

PROJECT NAME  
E. 38TH ST.

PROJECT DATE  
E38PDXSR7-CH1.DWG

2023



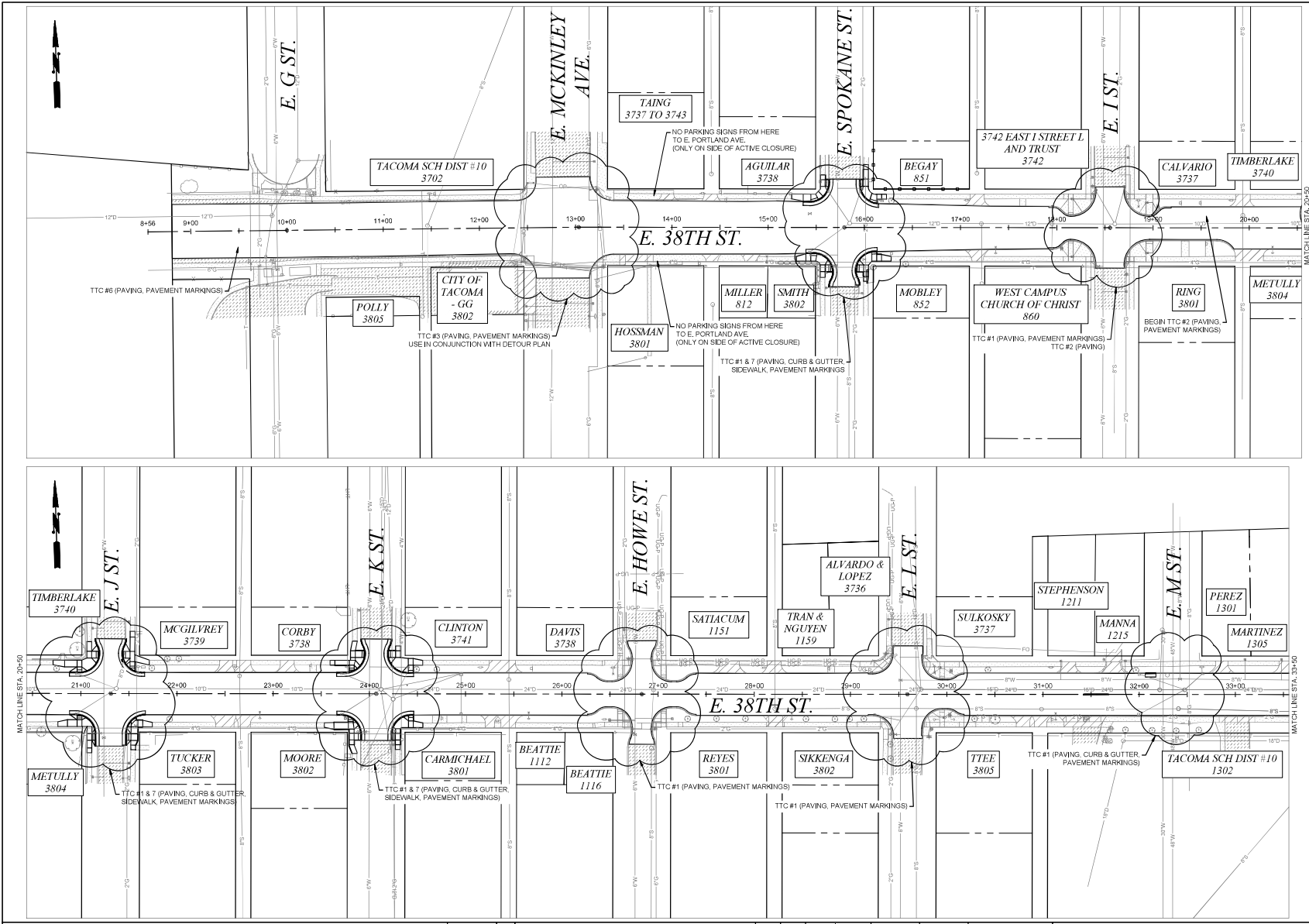
CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS

CHANNELIZATION PLAN  
E. 38TH ST. OVERLAY  
NOTES & DETAILS

Designed by  
*Jack Melusker*  
CITY OF TACOMA


PWK-G0051  
SHEET NO. 23  
SHEET CH-5 OF CH-5

P:\Design Projects\CTVIL BD\PMW-G0051\_E\_38th St (E Overlaid Ave - SR7)\production Drawings\E38PDXSR7-CH1.dwg, 9/6/2023, 1:31:50 PM, Obafemi



- ### TRAFFIC CONTROL GENERAL NOTES/REQUIREMENTS
1. TRAFFIC CONTROL ELEMENTS: SPACING, TAPERS AND REQUIREMENTS OF TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6 (LATEST EDITION) WITH APPLICABLE AMENDMENTS AND REVISIONS PER CHAPTER 48-95 OF THE WAC, THE WSDOT STANDARD SPECIFICATIONS, AND THE CITY OF TACOMA TRAFFIC CONTROL HANDBOOK.
  2. ANY PERMANENT TRAFFIC CONTROL ELEMENTS (E.G. SIGNING, STRIPING) THAT WOULD BE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL ELEMENTS SHALL BE COVERED (OR REMOVED AND REPLACED) WITH PRIOR APPROVAL OF THE CITY OF TACOMA.
  3. PARKING RESTRICTIONS TO BE IMPLEMENTED THROUGH ADVANCE PLACEMENT (AT LEAST 72 HOURS) OF NO PARKING SIGNS WITH CLEARLY PRESENTED DATE AND DURATION OF PARKING RESTRICTIONS.
  4. PRIMARY OR ALTERNATE ACCESS (VEHICULAR AND PEDESTRIAN) TO AFFECTED PROPERTIES MUST BE MAINTAINED AT ALL TIMES PER SECTION 4-07.23 OF THE STANDARD SPECIFICATIONS.
  5. INFORM IN ADVANCE (AT LEAST 10 WORKING DAYS) AND COORDINATE WITH PIERCE TRANSIT REGARDING IMPACTS TO, AND POSSIBLE RELOCATIONS OF, BUS STOPS AFFECTED BY THE WORK AREAS AND/OR TRAFFIC CONTROL ELEMENTS.
  6. THE PLAN DEPICTION OF THE NUMBER OF CHANNELIZING DEVICES NEEDED IS AN APPROXIMATION; ADDITIONAL CHANNELIZING DEVICES MAY BE NEEDED TO IMPLEMENT THE PRESCRIBED TRAFFIC CONTROL.
  7. TRAFFIC CONTROL DELINEATORS AT CORNERS MAY REQUIRE FIELD ADJUSTMENT BASED ON LARGE VEHICLE TURNING NEEDS.
  8. ADJUST AND MODIFY TRAFFIC CONTROL DEVICES AS DIRECTED BY THE ENGINEER OR ENGINEER'S REPRESENTATIVE.
  9. STEADY BURNING WARNING LIGHTS (TYPE C PER MUTCD) SHALL BE USED TO DELINEATE CHANNELIZING DEVICES AT NIGHT AND IN LOW-LIGHT CONDITIONS.
  10. NO SIGNS SHALL BE PLACED, SUCH AS TO OBSCURE VISIBILITY OF OTHER TRAFFIC SIGNS AND/OR VISIBILITY OF DRIVERS AND PEDESTRIANS USING THE ROADWAY.
  11. CONTRACTOR SHALL INFORM AFFECTED BUSINESSES AND OTHER IDENTIFIED STAKEHOLDERS 2 WEEKS IN ADVANCE OF ON-STREET PARKING AND/OR ACCESS RESTRICTIONS IN PREPARATION FOR ESTABLISHING WORK ZONES.
  12. TEMPORARY TRAFFIC CONTROL FOR PAVEMENT MARKING WORK MAY BE ABLE TO BE PERFORMED VIA SHOWN PLANS (OR MOBILE VARIANT THEREOF), AND/OR WILL REQUIRE SPECIFIC PLANS TO BE DEVELOPED AND SUBMITTED FOR CITY OF TACOMA REVIEW AND APPROVAL.
  13. ANY PROPOSED TEMPORARY TRAFFIC CONTROL SET-UP EVEN IF BASED ON WHAT IS SHOWN IN THE PLANS, MAY REQUIRE, WHEN REQUESTED BY THE CITY OF TACOMA, A SITE-SPECIFIC PLAN TO BE DEVELOPED BY THE CONTRACTOR FOR CITY OF TACOMA REVIEW AND APPROVAL.
  14. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) ARE REQUIRED TO BE IN PLACE AT LEAST FIVE (5) CALENDAR DAYS BEFORE CONSTRUCTION BEGINNING WHEN AFFECTING THE FLOW AND/OR OPERATION OF AN ARTERIAL-RELATED INTERSECTION, BUT CAN BE REPLACED WITH STATIC SIGNS CONVEYING THE SAME INFORMATION THEREAFTER.
  15. IF WORK IS OCCURRING AT NIGHT, A UNIFORMED POLICE OFFICER WILL BE PROVIDED FOR SECURITY.

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NO

REVISION

DATE

APPROVED

DATE

BY

DATE

REVISIONS

SEP 2023

JH


DCS

PROJECT NAME

E. 38TH ST.

CONTRACT NO.

E38POXSR7-TCP.DWG



CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS

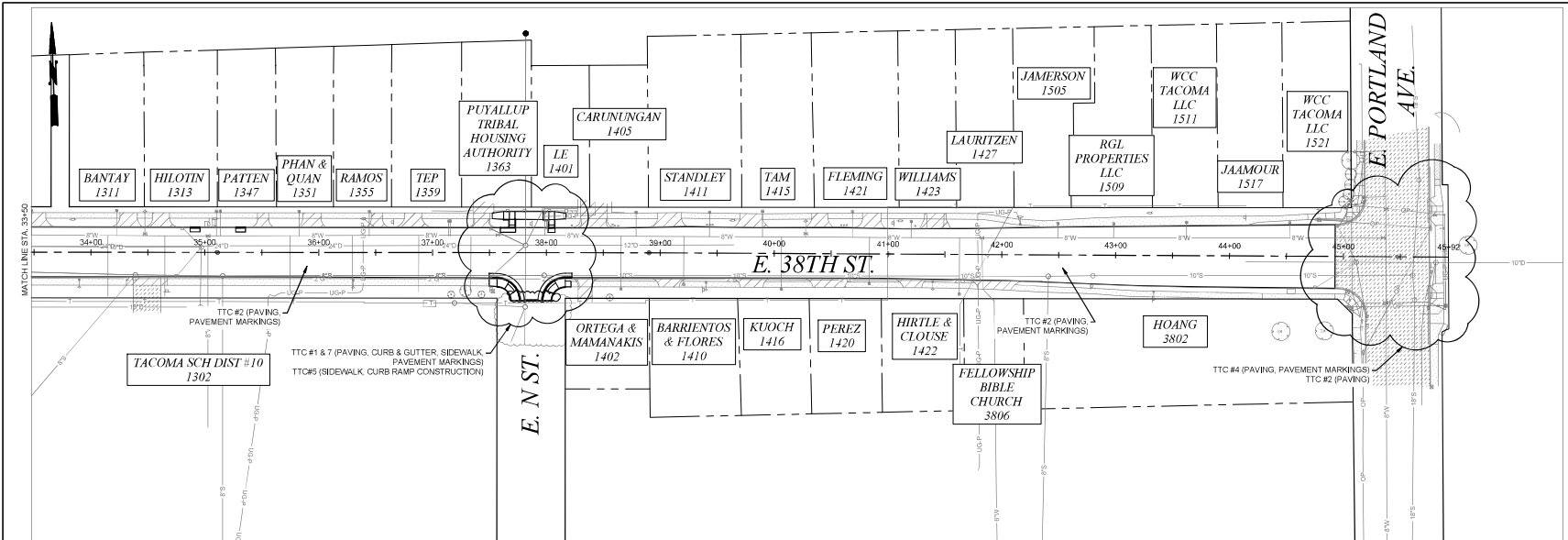
TRAFFIC CONTROL PLAN  
E. 38TH ST. OVERLAY  
FROM SR7 TO E. PORTLAND AVE.

Designed by:  
Jack Melner

PWK-G0051

SHEET NO.  
24

SHEET TC-1 OF TC-3




- ### TRAFFIC CONTROL GENERAL NOTES/REQUIREMENTS
1. TRAFFIC CONTROL ELEMENTS, SPACING, TAPERS AND REQUIREMENTS OF TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6 (LATEST EDITION) WITH APPLICABLE AMENDMENTS AND REVISIONS PER CHAPTER 46B.95 OF THE WAC. THE WSDOT STANDARD SPECIFICATIONS, AND THE CITY OF TACOMA TRAFFIC CONTROL HANDBOOK.
  2. ANY PERMANENT TRAFFIC CONTROL ELEMENTS (E.G. SIGNING, STRIPING) THAT WOULD BE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL ELEMENTS SHALL BE COVERED (OR REMOVED AND REPLACED) WITH PRIOR APPROVAL OF THE CITY OF TACOMA.
  3. PARKING RESTRICTIONS TO BE IMPLEMENTED THROUGH ADVANCE PLACEMENT (AT LEAST 72 HOURS) OF NO PARKING SIGNS WITH CLEARLY PRESENTED DATE AND DURATION OF PARKING RESTRICTIONS.
  4. PRIMARY OR ALTERNATE ACCESS (VEHICULAR AND PEDESTRIAN) TO AFFECTED PROPERTIES MUST BE MAINTAINED AT ALL TIMES PER SECTION 1-07.23 OF THE STANDARD SPECIFICATIONS.
  5. INFORM IN ADVANCE (AT LEAST 10 WORKING DAYS) AND COORDINATE WITH PIERCE TRANSIT REGARDING IMPACTS TO, AND POSSIBLE RELOCATIONS OF, BUS STOPS AFFECTED BY THE WORK AREAS AND/OR TRAFFIC CONTROL ELEMENTS.
  6. THE PLAN DEPICTION OF THE NUMBER OF CHANNELIZING DEVICES NEEDED IS AN APPROXIMATION; ADDITIONAL CHANNELIZING DEVICES MAY BE NEEDED TO IMPLEMENT THE PRESCRIBED TRAFFIC CONTROL.
  7. TRAFFIC CONTROL DELINEATORS AT CORNERS MAY REQUIRE FIELD ADJUSTMENT BASED ON LARGE VEHICLE TURNING NEEDS.
  8. ADJUST AND MODIFY TRAFFIC CONTROL DEVICES AS DIRECTED BY THE ENGINEER OR ENGINEER'S REPRESENTATIVE.
  9. STEADY BURNING WARNING LIGHTS (TYPE C PER MUTCD) SHALL BE USED TO DELINEATE CHANNELIZING DEVICES AT NIGHT AND IN LOW-LIGHT CONDITIONS.
  10. NO SIGNS SHALL BE PLACED, SUCH AS TO OBSCURE VISIBILITY OF OTHER TRAFFIC SIGNS AND/OR VISIBILITY OF DRIVERS AND PEDESTRIANS USING THE ROADWAY.
  11. CONTRACTOR SHALL INFORM AFFECTED BUSINESSES AND OTHER IDENTIFIED STAKEHOLDERS 2 WEEKS IN ADVANCE OF ON-STREET PARKING AND/OR ACCESS RESTRICTIONS IN PREPARATION FOR ESTABLISHING WORK ZONES.
  12. TEMPORARY TRAFFIC CONTROL FOR PAVEMENT MARKING WORK MAY BE ABLE TO BE PERFORMED VIA SHOW-UP PLANS (OR MOBILE VARIANT THEREOF), AND/OR WILL REQUIRE SPECIFIC PLANS TO BE DEVELOPED AND SUBMITTED FOR CITY OF TACOMA REVIEW AND APPROVAL.
  13. ANY PROPOSED TEMPORARY TRAFFIC CONTROL SET-UP EVEN IF BASED ON WHAT IS SHOWN IN THE PLANS, MAY REQUIRE, WHEN REQUESTED BY THE CITY OF TACOMA, A SITE-SPECIFIC PLAN TO BE DEVELOPED BY THE CONTRACTOR FOR CITY OF TACOMA REVIEW AND APPROVAL.
  14. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) ARE REQUIRED TO BE IN PLACE AT LEAST FIVE (5) CALENDAR DAYS BEFORE CONSTRUCTION BEGINNING WHEN AFFECTING THE FLOW AND/OR OPERATION OF AN ARTERIAL-RELATED INTERSECTION, BUT CAN BE REPLACED WITH STATIC SIGNS CONVEYING THE SAME INFORMATION THEREAFTER.
  15. IF WORK IS OCCURRING AT NIGHT, A UNIFORMED POLICE OFFICER WILL BE PROVIDED FOR SECURITY.

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NO

REVISION	DATE	APPD

DATE	SCALE
SEP 2023	1" = 50'

BY: JH  
DATE: DCS  
PROJECT NAME: E. 38TH ST.  
SHEET NO: E38POXS87-TCP.DWG



2023

**CITY OF TACOMA**  
**DEPARTMENT OF PUBLIC WORKS**

**TRAFFIC CONTROL PLAN**  
E. 38TH ST. OVERLAY  
FROM SR7 TO E. PORTLAND AVE.

Drawn/Checked by:  
*Jack Melner*

PWK-G0051

SHEET NO: 25

SHEET: TC-2 OF TC-3

SIGN SPACING = X (ft)		
TYPE OF ROADWAY	POSTED SPEED	SIGN SPACING (FT)
RURAL ROADS AND URBAN ARTERIALS	45 MPH	500 ±
RURAL ROADS AND URBAN ARTERIALS	35 / 40 MPH	350 ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL AND BUSINESS DISTRICTS	25 / 30 MPH	200 ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM LANE CLOSURE TAPER LENGTH = L (FT)		
LANE WIDTH (FT)	POSTED SPEED (MPH)	
10	25	30
11	115	185
12	125	180
13	105	150
14	105	150
15	105	150
16	105	150
17	105	150
18	105	150
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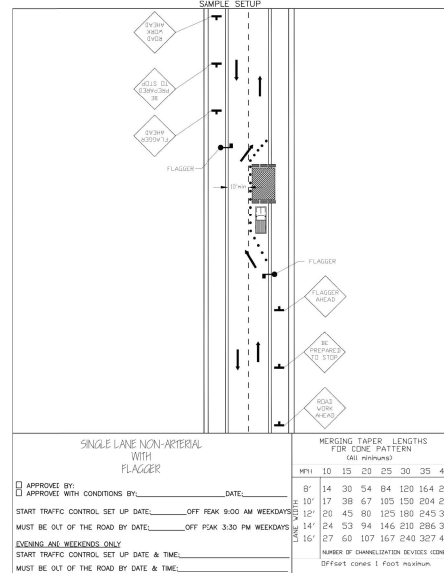
BUFFER DATA (B, R)		
LONGITUDINAL BUFFER SPACE = B		
MPH	25	30
LENGTH (FT)	155	200
BUFFER VEHICLE ROLL AHEAD DISTANCE = R		
TRANSPORTABLE ATTENUATOR	30 FEET MIN.	100 FEET MAX.
MINIMUM HOST VEHICLE WEIGHT IS 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.		
PROTECTIVE VEHICLE	NO SPECIFIED DISTANCE REQUIRED	
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHELTER THE WORK AREA.		

CHANNELIZATION DEVICE SPACING (FT)		
POSTED SPEED (MPH)	TAPER	TANGENT
35-45	30	60
25-30	20	40

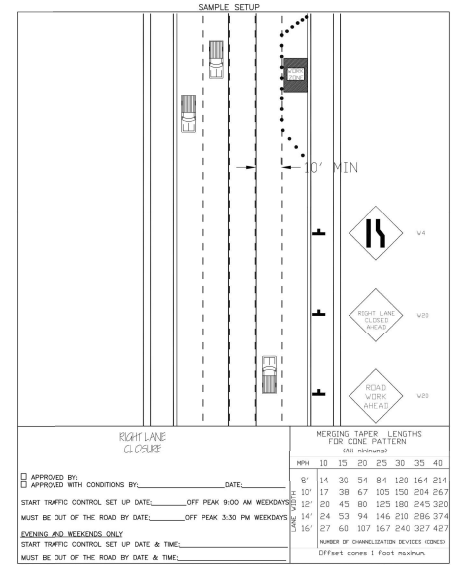
#### NOTES:

- 1) EXTEND DEVICE TAPER AT 1/3 ACROSS SHOULDER, 3 DEVICES MINIMUM.
- 2) IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" DURING FLAGGING OPERATIONS.
- 3) LAW ENFORCEMENT OFFICER(S) ARE REQUIRED FOR SIGNALIZED INTERSECTION TRAFFIC CONTROL.
- 4) MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
- 5) ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- 6) MAINTAIN MINIMUM 10-FOOT LANES AT ALL TIMES.
- 7) SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 8) PROTECTIVE VEHICLE REQUIRED WHERE POSTED SPEED LIMIT IS 45 MPH. OTHERWISE, USED AT CONTRACTOR'S DISCRETION AND EXPENSE.
- 9) LANE CLOSURES REQUIRE 5 DAYS PUBLIC NOTICE VIA PCMS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

(NOT TO SCALE)



#### TEMPORARY TRAFFIC CONTROL SET-UP #2: FOR USE ON E. 38TH ST. FROM E. I' ST. TO E. PORTLAND AVE.



#### TEMPORARY TRAFFIC CONTROL SET-UP #3: RIGHT TURN LANE CLOSURE AT E. 38TH ST. AND E. MCKINLEY AVE. INTERSECTION ON THE SW, NW, AND SE QUADRANTS.

SIGN SPACING = X (ft)		
TYPE OF ROADWAY	POSTED SPEED	SIGN SPACING (FT)
RURAL ROADS AND URBAN ARTERIALS	45 MPH	500 ±
RURAL ROADS AND URBAN ARTERIALS	35 / 40 MPH	350 ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL AND BUSINESS DISTRICTS	25 / 30 MPH	200 ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM LANE CLOSURE TAPER LENGTH = L (FT)		
LANE WIDTH (FT)	POSTED SPEED (MPH)	
10	25	30
11	115	185
12	125	180
13	105	150
14	105	150
15	105	150
16	105	150
17	105	150
18	105	150
19	105	150
20	105	150
21	105	150
22	105	150
23	105	150
24	105	150
25	105	150
26	105	150
27	105	150
28	105	150
29	105	150
30	105	150
31	105	150
32	105	150
33	105	150
34	105	150
35	105	150
36	105	150
37	105	150
38	105	150
39	105	150
40	105	150
41	105	150
42	105	150
43	105	150
44	105	150
45	105	150
46	105	150
47	105	150
48	105	150
49	105	150
50	105	150
51	105	150
52	105	150
53	105	150
54	105	150
55	105	150
56	105	150
57	105	150
58	105	150
59	105	150
60	105	150
61	105	150
62	105	150
63	105	150
64	105	150
65	105	150
66	105	150
67	105	150
68	105	150
69	105	150
70	105	150
71	105	150
72	105	150
73	105	150
74	105	150
75	105	150
76	105	150
77	105	150
78	105	150
79	105	150
80	105	150
81	105	150
82	105	150
83	105	150
84	105	150
85	105	150
86	105	150
87	105	150
88	105	150
89	105	150
90	105	150
91	105	150
92	105	150
93	105	150
94	105	150
95	105	150
96	105	150
97	105	150
98	105	150
99	105	150
100	105	150

BUFFER DATA (B, R)		
LONGITUDINAL BUFFER SPACE = B		
MPH	25	30
LENGTH (FT)	155	200
BUFFER VEHICLE ROLL AHEAD DISTANCE = R		
TRANSPORTABLE ATTENUATOR	30 FEET MIN.	100 FEET MAX.
MINIMUM HOST VEHICLE WEIGHT IS 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.		
PROTECTIVE VEHICLE	NO SPECIFIED DISTANCE REQUIRED	
MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHELTER THE WORK AREA.		

CHANNELIZATION DEVICE SPACING (FT)		
POSTED SPEED (MPH)	TAPER	TANGENT
35-45	30	60
25-30	20	40

#### NOTES:

- 1) EXTEND DEVICE TAPER AT 1/3 ACROSS SHOULDER, 3 DEVICES MINIMUM.
- 2) IF A SIGNAL IS PRESENT, IT SHALL BE SET TO "RED FLASH MODE" DURING FLAGGING OPERATIONS.
- 3) LAW ENFORCEMENT OFFICER(S) ARE REQUIRED FOR SIGNALIZED INTERSECTION TRAFFIC CONTROL.
- 4) MAINTAIN A MINIMUM OF ONE ACCESS POINT FOR EACH BUSINESS WITHIN WORK AREA LIMITS.
- 5) ALL SIGNS ARE BLACK ON ORANGE.
- 6) MAINTAIN MINIMUM 10-FOOT LANES AT ALL TIMES.
- 7) SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
- 8) PROTECTIVE VEHICLE REQUIRED WHERE POSTED SPEED LIMIT IS 45 MPH. OTHERWISE, USED AT CONTRACTOR'S DISCRETION AND EXPENSE.
- 9) LANE CLOSURES REQUIRE 5 DAYS PUBLIC NOTICE VIA PCMS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

(NOT TO SCALE)

#### TEMPORARY TRAFFIC CONTROL SET-UP #4: TRAFFIC CONTROL STRATEGY FOR E. 38TH ST. AND E. PORTLAND AVE. INTERSECTION

**CALL BEFORE YOU DIG**  
EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. PER BEST AVAILABLE INFO, AND MAY BE INCOMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, POT-HOLING, AND AVOIDING ALL EXISTING UTILITIES.  
CALL TWO BUSINESS DAYS BEFORE YOU DIG  
(1-800-424-5555) OR VISIT ONLINE: [www.callbeforeyoudig.org](http://www.callbeforeyoudig.org)



NO

REVISION

DATE

APPRO

BY  
DATE  
TELEPHONE

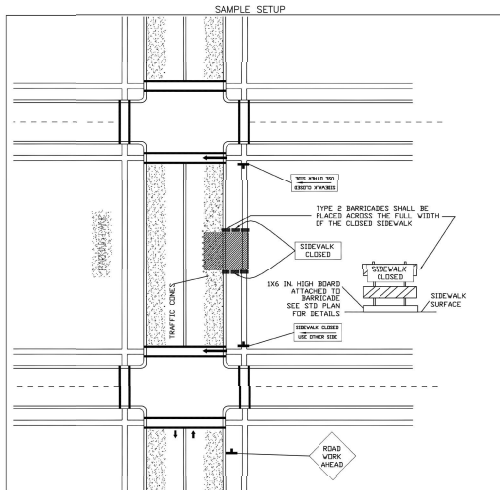
DATE  
SEP 2023  
JH  
REE  
E38POXSR7-TOP.DWG



SCALE  
N.T.S.  
DCS  
E. 38TH ST.  
CONTRACT NO.

CITY OF TACOMA  
DEPARTMENT OF PUBLIC WORKS  
TRAFFIC CONTROL PLAN  
E. 38TH ST. OVERLAY  
FROM SR7 TO E. PORTLAND AVE.

PWK-G0051  
SHEET NO. 26  
PROJECT TC-3 OF TC-5



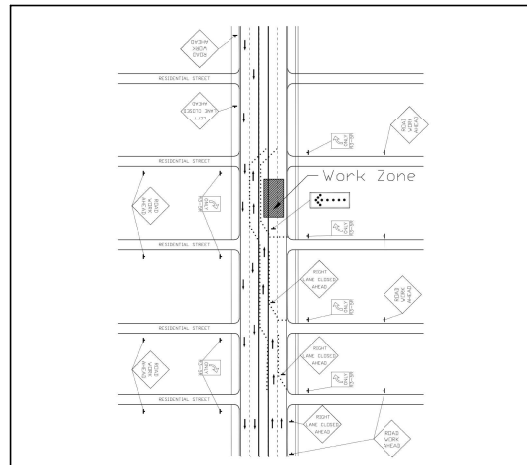
SIDEWALK / PARKING CLOSURE		MERGING TAPER LENGTHS FOR CONE PATTERN (ALL MEASUREMENTS)								
		MPH	10	15	20	25	30	35	40	
<input type="checkbox"/> APPROVED BY _____ DATE: _____ <input type="checkbox"/> APPROVED WITH CONDITIONS BY _____ DATE: _____	START TRAFFIC CONTROL SET UP DATE & TIME: _____	8'	14	30	54	84	120	164	214	
	MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 9:00 AM WEEKDAY	12'	17	38	67	105	150	204	267	
	MUST BE OUT OF THE ROAD BY DATE: _____ OFF PEAK 3:30 PM WEEKDAY	14'	24	53	94	146	210	286	374	
		16'	27	60	107	167	240	327	427	
EVENING AND WEEKENDS ONLY		NUMBER OF CHANNELIZATION DEVICES REQUIRED: _____								
START TRAFFIC CONTROL SET UP DATE & TIME: _____		Offset cones 1 foot maximum.								
MUST BE OUT OF THE ROAD BY DATE & TIME: _____										

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED WITH CONDITIONS BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 START TRAFFIC CONTROL SET UP DATE: \_\_\_\_\_ OFF PEAK 9:00 AM WEEKDAYS  
 MUST BE OUT OF THE ROAD BY DATE: \_\_\_\_\_ OFF PEAK 3:30 PM WEEKDAYS  
 EVENING AND WEEKENDS ONLY  
 START TRAFFIC CONTROL SET UP DATE & TIME: \_\_\_\_\_  
 MUST BE OUT OF THE ROAD BY DATE & TIME: \_\_\_\_\_  
 NUMBER OF CHANNELIZATION DEVICES (CONES)  
 Offset comes 1 foot maximum

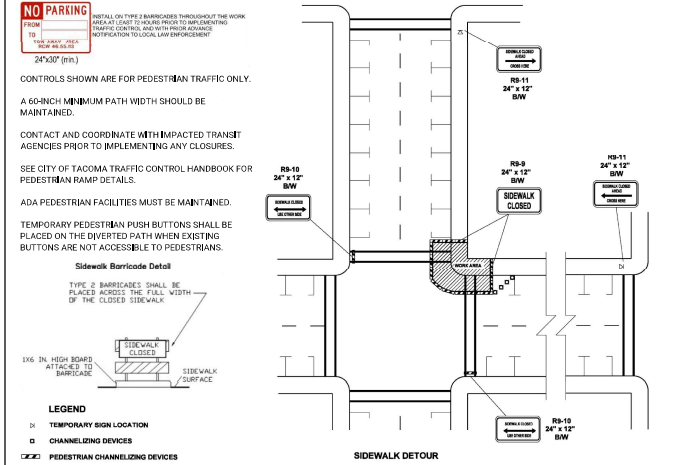
#### TEMPORARY TRAFFIC CONTROL SET-UP #5:

USE WITH TTC #2.  
**NOTE:**

- 1) PEDESTRIAN WALKWAY SHALL BE A MINIMUM OF 5' WIDE.
- 2) A FLAGGER SHALL GUIDE PEDESTRIANS THROUGH THE WORK ZONE.
- 3) PEDESTRIAN ACCESS ROUTE SHALL MEET OR EXCEED EXISTING ACCESSIBILITY CONDITIONS.

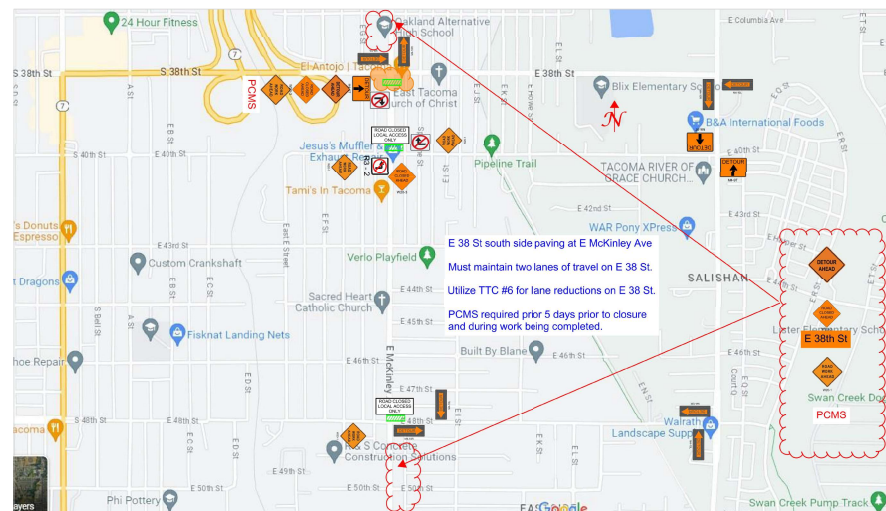
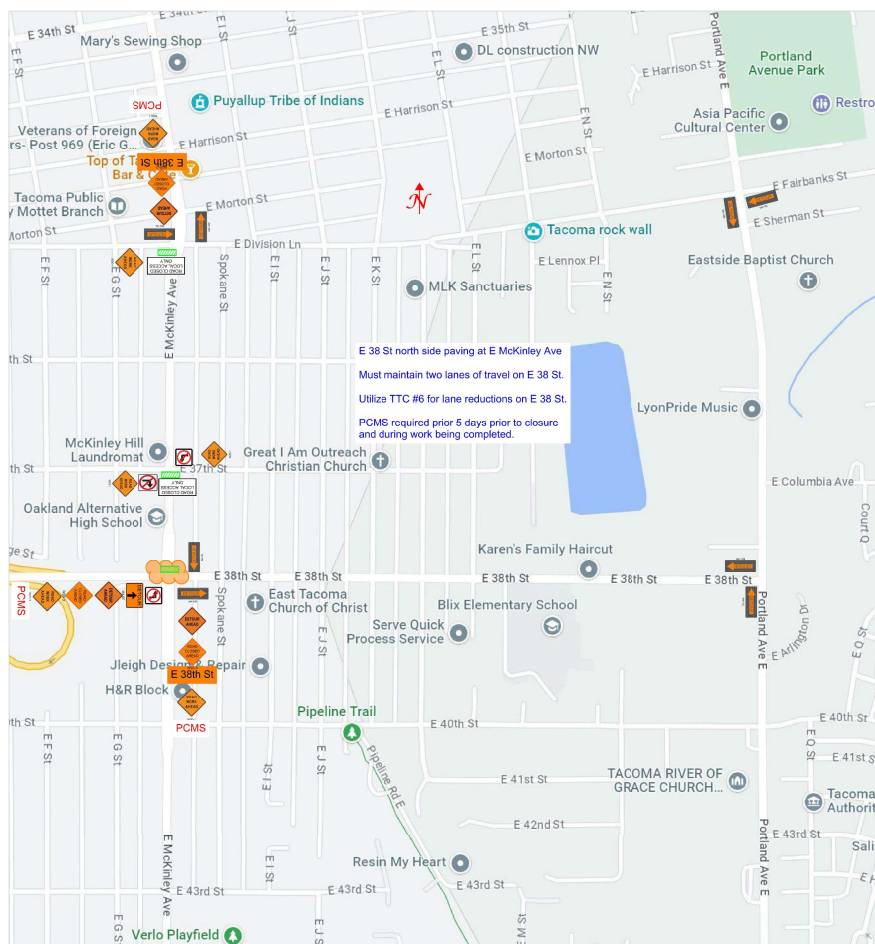


TEMPORARY TRAFFIC CONTROL SET-UP #6:  
 FIVE LANE ROAD WITH MULTILANE CLOSURE



TEMPORARY TRAFFIC CONTROL SET-UP #7:





		DATE SEP 2023		SCALE N.T.S.		CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS			
		DATE JH		PROJECT NAME DCS					
		DATE REE		PROJECT NAME E. 38TH ST.					
		DATE E. 38TH ST.		PROJECT NAME E. 38TH ST.		Designed by: 		TRAFFIC CONTROL PLAN E. 38TH ST. - OVERLAY	
		DATE E. 38TH ST.		PROJECT NAME E. 38TH ST.		PROJECT LOCATION - PER SHEET 		PWK-G0051 28	