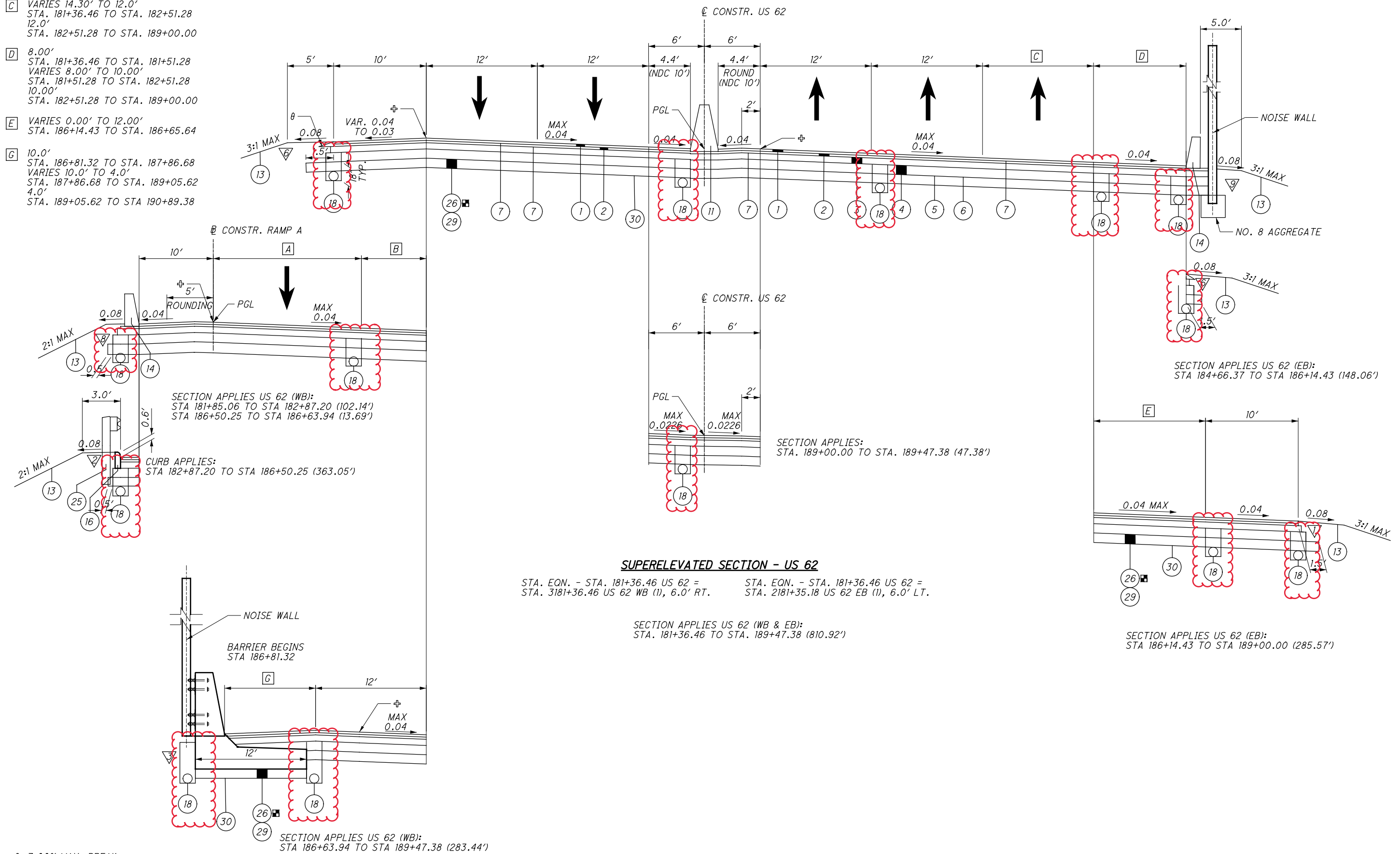


- A 16.0'
STA. 181+81.20 TO STA. 184+20.18
VARIES 16.0' TO 12.0'
STA. 184+20.18 TO STA. 185+70.00
- B VARIES 23.0' TO 0.0'
STA. 181+81.20 TO STA. 184+20.18
- C VARIES 14.30' TO 12.0'
STA. 181+36.46 TO STA. 182+51.28
12.0'
STA. 182+51.28 TO STA. 189+00.00
- D 8.00'
STA. 181+36.46 TO STA. 181+51.28
VARIES 8.00' TO 10.00'
STA. 181+51.28 TO STA. 182+51.28
10.00'
STA. 182+51.28 TO STA. 189+00.00
- E VARIES 0.00' TO 12.00'
STA. 186+14.43 TO STA. 186+65.64
- G 10.00'
STA. 186+81.32 TO STA. 187+86.68
VARIES 10.00' TO 4.00'
STA. 187+86.68 TO STA. 189+05.62
4.00'
STA. 189+05.62 TO STA. 190+89.38

26 ITEM APPLIES:
US 62 (WB & EB) STA. 181+36.46 TO STA. 189+47.38 (810.92')



SECTION APPLIES US 62 (WB):
STA 181+85.06 TO STA 182+87.20 (102.14')
STA 186+50.25 TO STA 186+63.94 (13.69')

CURB APPLIES:
STA 182+87.20 TO STA 186+50.25 (363.05')

SUPERELEVATED SECTION - US 62

STA. EQN. - STA. 181+36.46 US 62 = STA. 3181+36.46 US 62 WB (1), 6.0' RT.
STA. EQN. - STA. 181+36.46 US 62 = STA. 2181+35.18 US 62 EB (1), 6.0' LT.

SECTION APPLIES US 62 (WB & EB):
STA. 181+36.46 TO STA. 189+47.38 (810.92')

SECTION APPLIES US 62 (EB):
STA 184+66.37 TO STA 186+14.43 (148.06')

SECTION APPLIES US 62 (EB):
STA 186+14.43 TO STA 189+00.00 (285.57')

SECTION APPLIES US 62 (WB):
STA 186+63.94 TO STA 189+47.38 (283.44')

⊕ 7.00% MAX. BREAK
θ - 40° MAX, SEE BP-3.2

FOR LEGEND AND ASPHALT EDGE COURSE DETAILS SEE SHEET 10.

TYPICAL SECTIONS - US 62

STA - 062 - 24.14

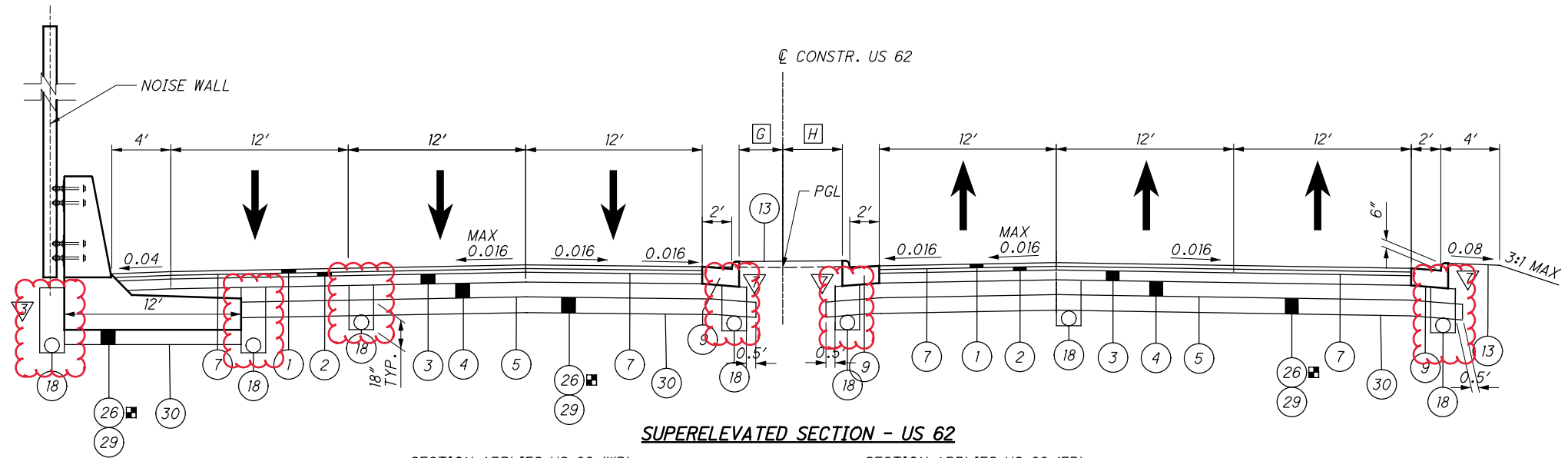
E VARIES 6.00' TO 2.00'
STA. 189+80.00 TO STA. 190+30.00

F VARIES 6.00' TO 2'
STA. 189+80.00 TO STA. 190+05.04

G VARIES 0' TO 3.5'
STA. 189+80.00 TO STA. 190+30.00
3.5'
STA. 190+30.00 TO STA. 190+50.00

H VARIES 0' TO 4.15'
STA. 189+80.00 TO STA. 190+05.04
VARIES 4.15' TO 9.37'
STA. 190+05.04 TO STA. 192+47.50

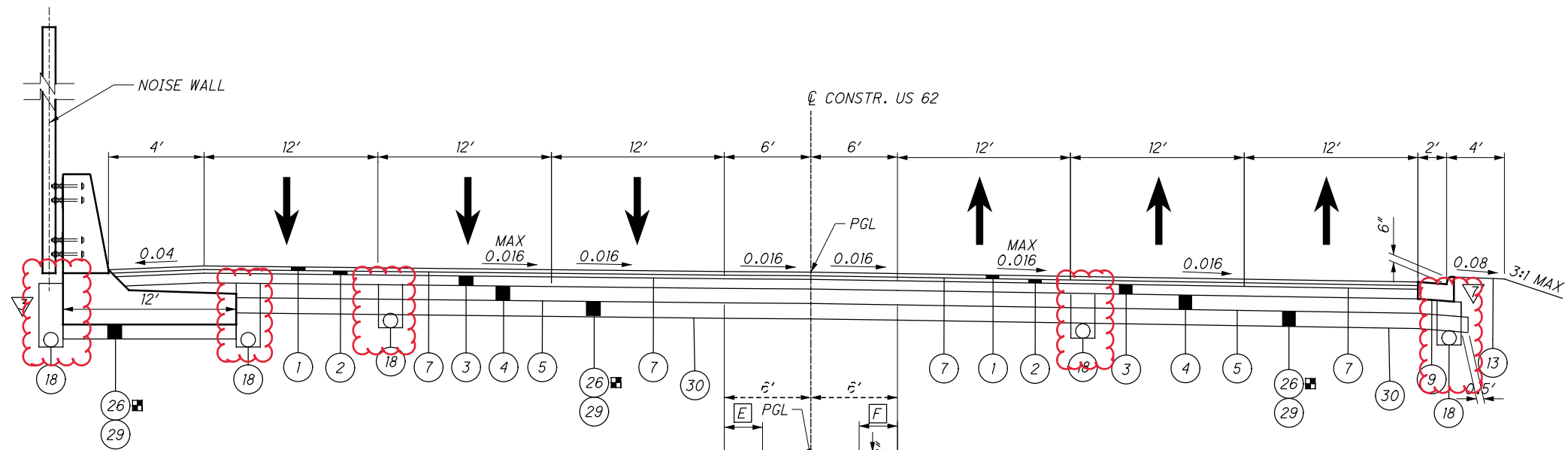
(26) ITEM APPLIES:
US 62 (WB) STA. 189+47.38 TO STA. 190+89.38 (142.00')
US 62 (EB) STA. 189+47.38 TO STA. 190+18.38 (71.00')



SUPERELEVATED SECTION - US 62

SECTION APPLIES US 62 (WB):
STA 190+30.00 TO STA. 190+89.38 (59.38')

SECTION APPLIES US 62 (EB):
STA 190+05.04 TO STA. 190+18.38 (13.34')



SECTION APPLIES US 62 (WB):
STA 189+80.00 TO STA. 190+30.00
(50.00')

SECTION APPLIES US 62 (EB):
STA 189+80.00 TO STA. 190+05.04
(25.04')

SUPERELEVATED SECTION - US 62

SECTION APPLIES US 62 (WB):
STA 189+47.38 TO STA. 190+18.38
(71.00')

SECTION APPLIES US 62 (EB):
STA 189+47.38 TO STA. 189+82.88
(35.50')

...Roadway\Sheets\100824\Y001_11/22/2021 7:51:52 AM ghmassie

θ - 40° MAX, SEE BP-3.2

FOR LEGEND AND ASPHALT EDGE
COURSE DETAILS SEE SHEET 10.

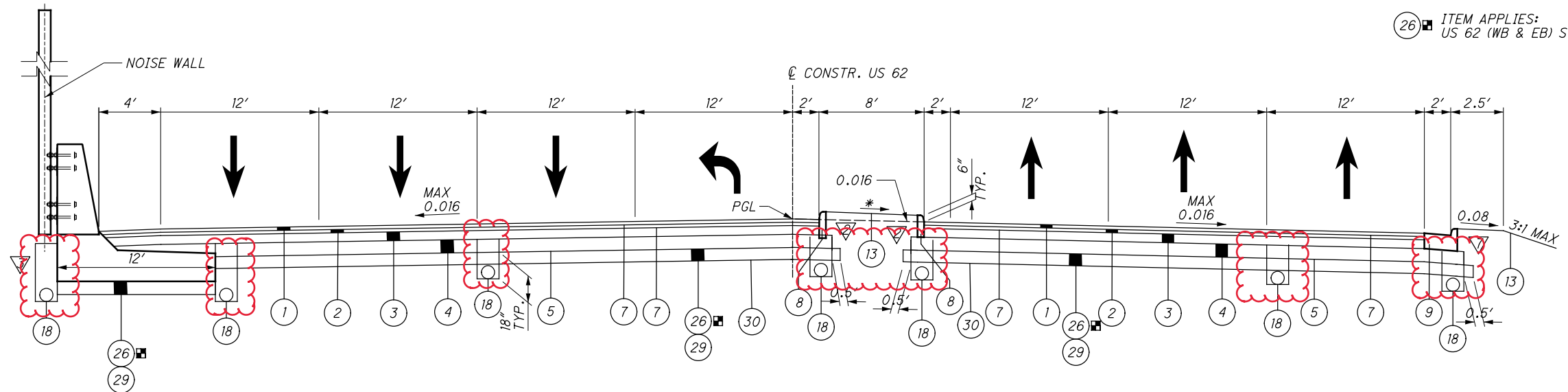
TYPICAL SECTIONS - US 62

STA - 062 - 24.14

13
500

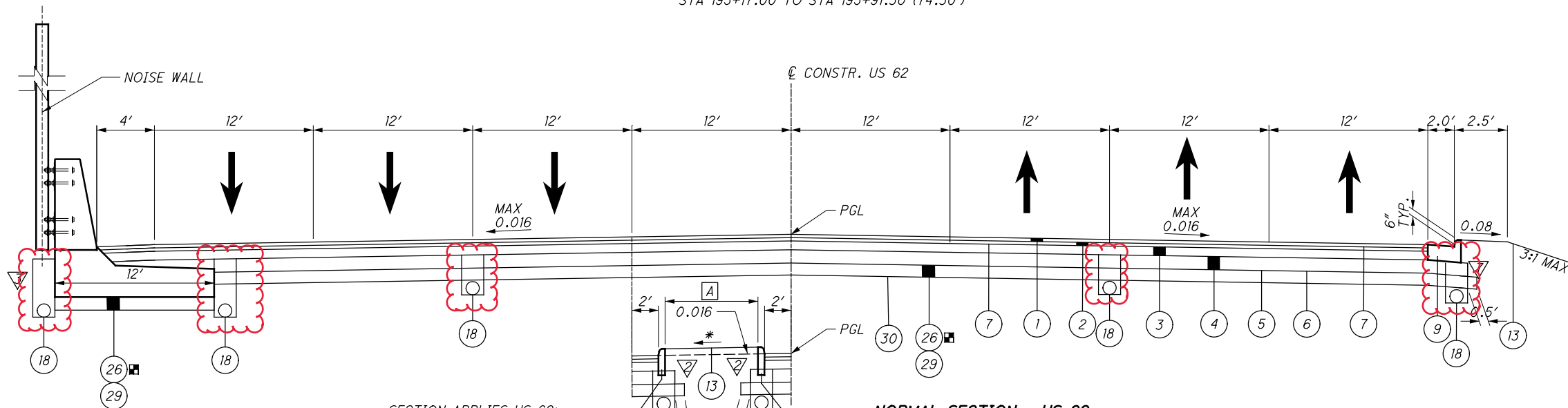
(26) ITEM APPLIES:
US 62 (WB & EB) STA. 195+00.00 TO STA. 196+59.71 (159.71')

A VARIES 7.0' TO 0.0'
STA. 194+23.78 TO STA. 194+61.01



NORMAL SECTION - US 62

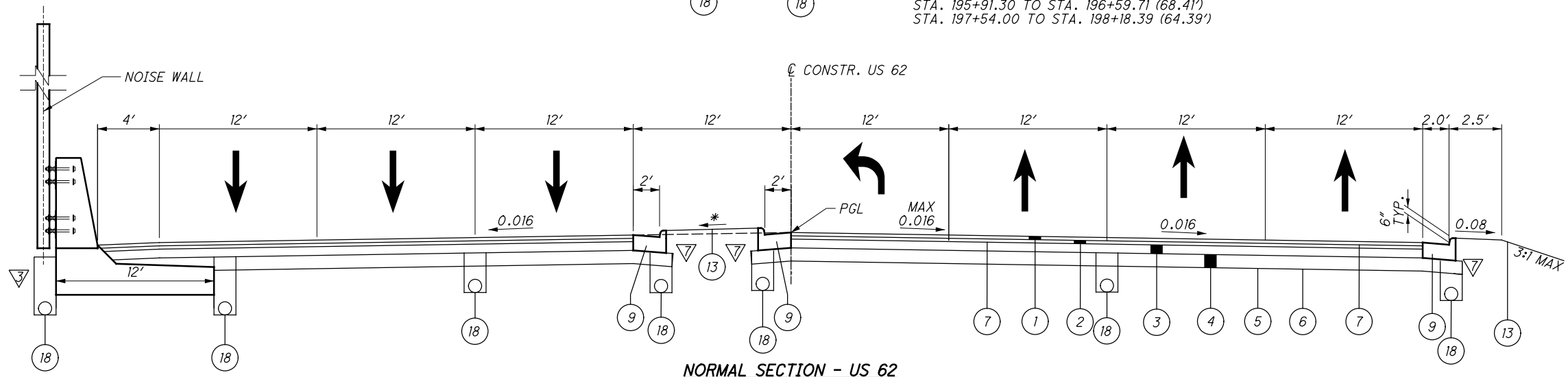
SECTION APPLIES US 62:
STA 195+17.00 TO STA 195+91.30 (74.30')



NORMAL SECTION - US 62

SECTION APPLIES US 62:
STA. 194+25.00 TO STA. 195+17.00 (92.00')
STA. 195+91.30 TO STA. 196+59.71 (68.41')
STA. 197+54.00 TO STA. 198+18.39 (64.39')

SECTION APPLIES US 62:
STA. 194+25.00 TO STA. 194+61.01
(36.01')



NORMAL SECTION - US 62

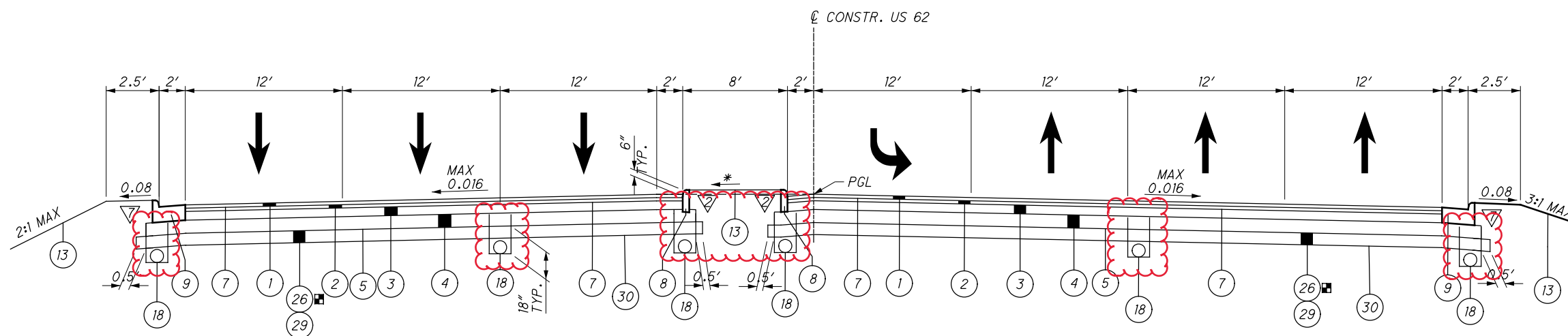
SECTION APPLIES US 62 (WB):
STA 193+89.50 TO STA 194+25.00
(35.50')

SECTION APPLIES US 62 (EB):
STA 193+54.00 TO STA 194+25.00
(71.00')

* MATCH SLOPE OF ADJACENT LANES

FOR LEGEND AND ASPHALT EDGE
COURSE DETAILS SEE SHEET 10.

26 ITEM APPLIES:
US 62 (WB & EB) STA. 196+59.71 TO STA. 198+18.39 (158.68')



NORMAL SECTION - US 62
SECTION APPLIES US 62:
STA 196+59.71 TO STA. 197+54.00 (94.29')

* MATCH SLOPE OF ADJACENT LANES

FOR LEGEND AND ASPHALT EDGE
COURSE DETAILS SEE SHEET 10 .

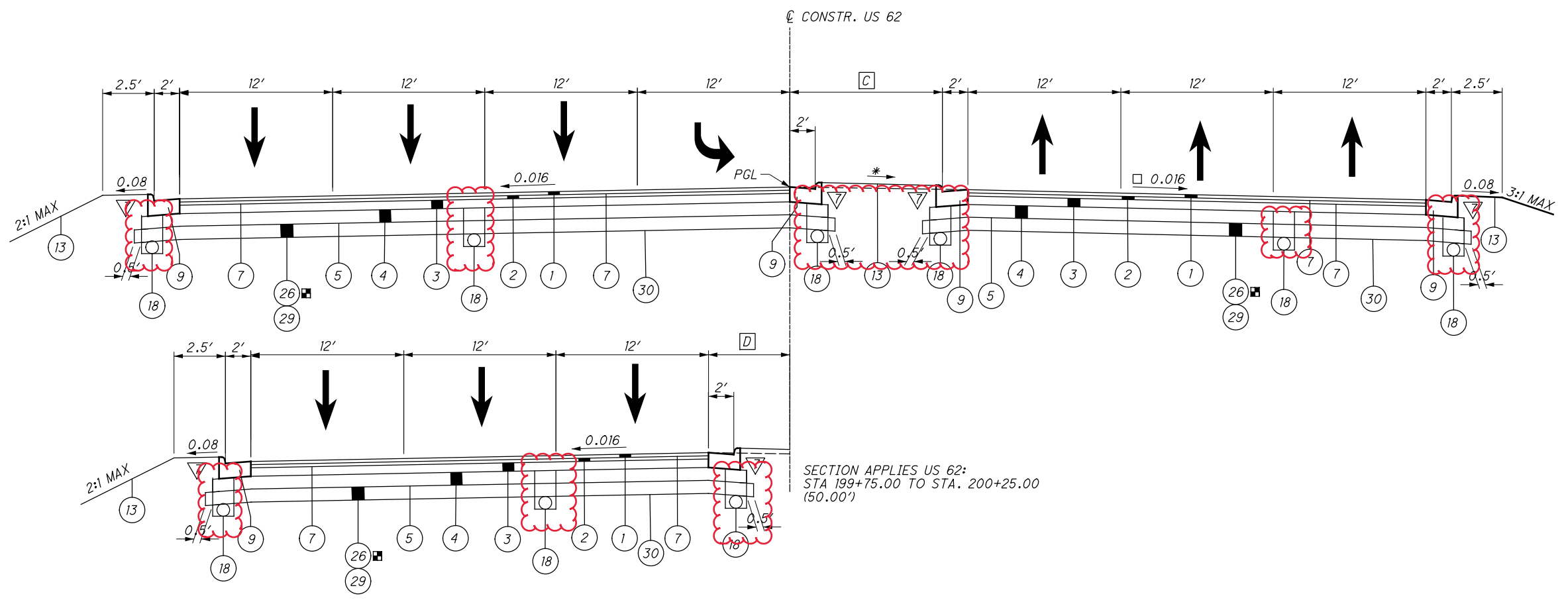
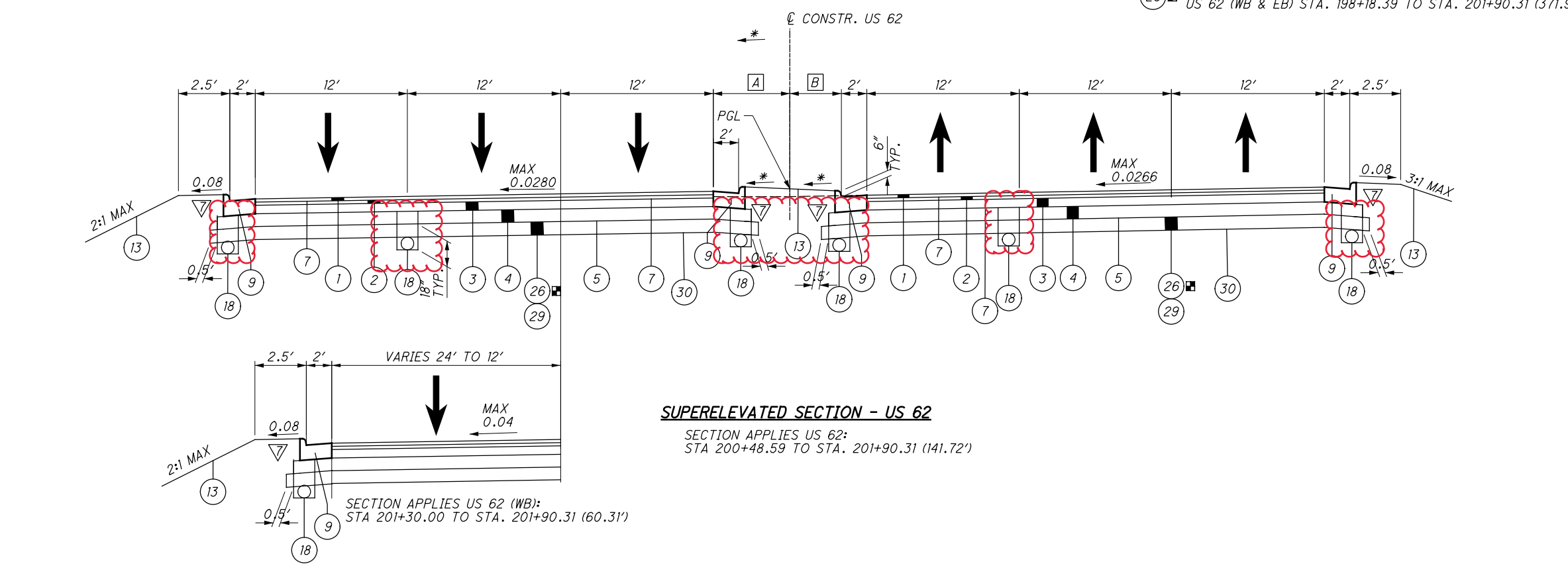
TYPICAL SECTIONS - US 62

STA - 062 - 24.14

16
500

- A VARIES 12.0' TO 7.10'
STA. 200+25.00 TO STA. 201+90.31
- B VARIES 8.24' TO 4.0'
STA. 199+75.00 TO STA. 201+90.31
- C 10.0'
STA. 198+18.39 TO STA. 198+85.81
VARIES 10.0' TO 8.24'
STA. 198+85.81 TO STA. 199+75.00
- D VARIES 0.0' TO 12.0'
STA. 199+75.00 TO STA. 200+25.00

(26) ITEM APPLIES:
US 62 (WB & EB) STA. 198+18.39 TO STA. 201+90.31 (371.92')



* MATCH SLOPE OF ADJACENT LANES
□ MAX 0.016 FROM 199+63.34 TO 200+48.59

NORMAL SECTION - US 62
SECTION APPLIES US 62:
STA 198+18.39 TO STA. 200+48.59 (230.20')

FOR LEGEND AND ASPHALT EDGE COURSE DETAILS SEE SHEET 10.

...Roadway\Sheets\00824GY00_11/22/2021 8:19:02 AM ghmassie

A VARIES 13.62' TO 14.83'
 STA. 204+65.85 TO STA. 205+44.78 WB(2)
 STA. 204+70.00 TO STA. 205+50.00 EB(2)

C 4.00'
 STA. 205+50.00 TO STA. 211+25.00 EB(2)
 VARIES 4.00' TO 5.4'
 STA. 211+03.32 TO STA. 211+66.03 EB(2)

D 4.00'
 STA. 210+31.57 TO STA. 210+45.60
 VARIES 4.00' TO 8.00'
 STA. 210+45.60 TO STA. 211+55.04 WB(2)

E VARIES 4.00' TO 3.00'
 STA. 210+99.23 TO STA. 211+66.03 EB(2)

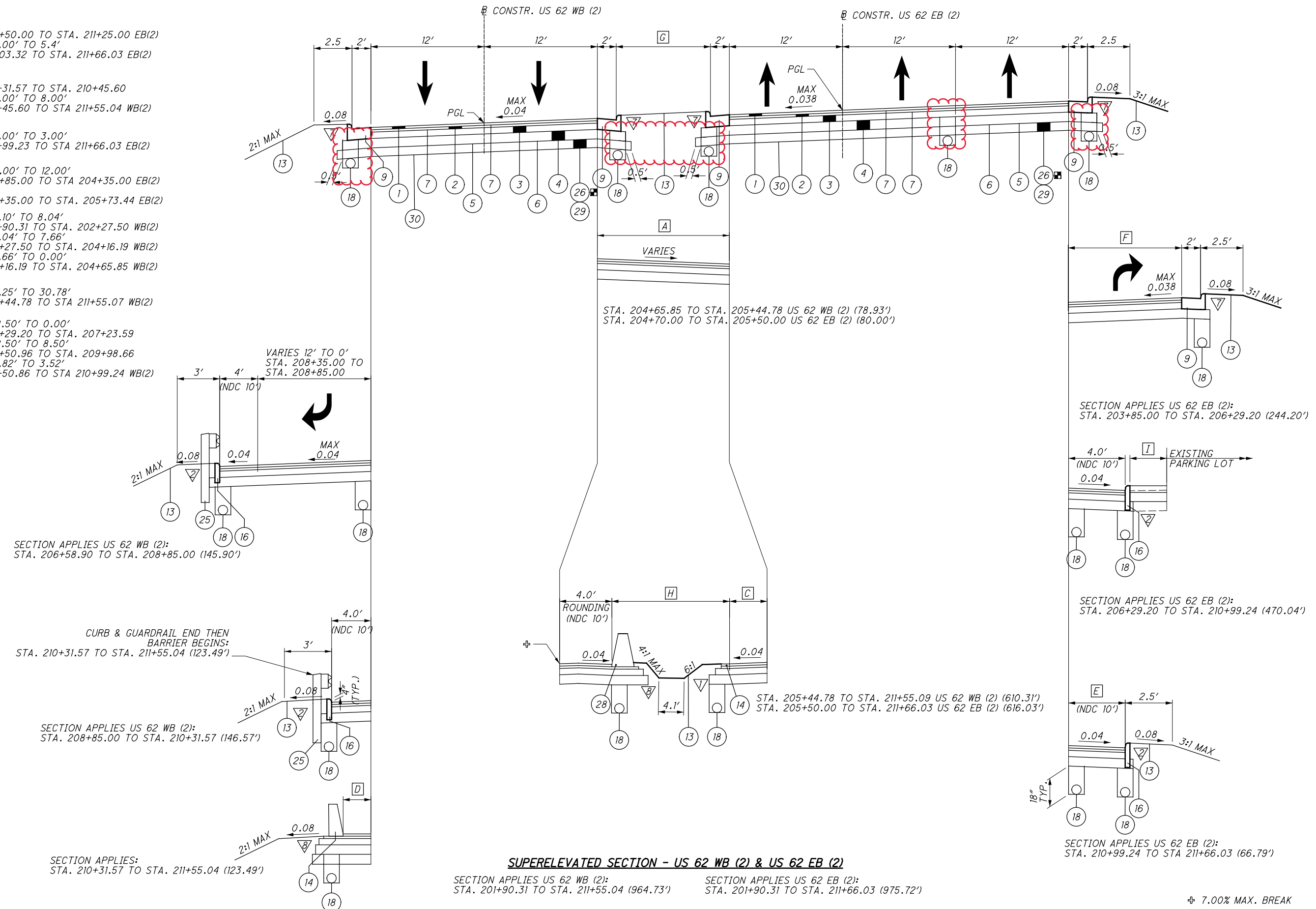
F VARIES 0.00' TO 12.00'
 STA. 203+85.00 TO STA. 204+35.00 EB(2)
 12.00'
 STA. 204+35.00 TO STA. 205+73.44 EB(2)

G VARIES 9.10' TO 8.04'
 STA. 201+90.31 TO STA. 202+27.50 WB(2)
 VARIES 8.04' TO 7.66'
 STA. 202+27.50 TO STA. 204+16.19 WB(2)
 VARIES 7.66' TO 0.00'
 STA. 204+16.19 TO STA. 204+65.85 WB(2)

H VARIES 4.25' TO 30.78'
 STA. 205+44.78 TO STA. 211+55.07 WB(2)

I VARIES 12.50' TO 0.00'
 STA. 206+29.20 TO STA. 207+23.59
 VARIES 12.50' TO 8.50'
 STA. 207+50.96 TO STA. 209+98.66
 VARIES 6.82' TO 3.52'
 STA. 210+50.86 TO STA. 210+99.24 WB(2)

26 ITEM APPLIES:
 US 62 (WB) STA. 201+90.31 TO STA. 202+40.00 (49.69')
 US 62 (EB) STA. 201+90.31 TO STA. 202+40.00 (49.69')



SECTION APPLIES US 62 WB (2):
 STA. 206+58.90 TO STA. 208+85.00 (145.90')

CURB & GUARDRAIL END THEN
 BARRIER BEGINS:
 STA. 210+31.57 TO STA. 211+55.04 (123.49')

SECTION APPLIES US 62 WB (2):
 STA. 208+85.00 TO STA. 210+31.57 (146.57')

SECTION APPLIES:
 STA. 210+31.57 TO STA. 211+55.04 (123.49')

STA. 204+65.85 TO STA. 205+44.78 US 62 WB (2) (78.93')
 STA. 204+70.00 TO STA. 205+50.00 US 62 EB (2) (80.00')

SUPERELEVATED SECTION - US 62 WB (2) & US 62 EB (2)

SECTION APPLIES US 62 WB (2):
 STA. 201+90.31 TO STA. 211+55.04 (964.73')

SECTION APPLIES US 62 EB (2):
 STA. 201+90.31 TO STA. 211+66.03 (975.72')

SECTION APPLIES US 62 EB (2):
 STA. 203+85.00 TO STA. 206+29.20 (244.20')

SECTION APPLIES US 62 EB (2):
 STA. 206+29.20 TO STA. 210+99.24 (470.04')

SECTION APPLIES US 62 EB (2):
 STA. 210+99.24 TO STA. 211+66.03 (66.79')

7.00% MAX. BREAK

FOR LEGEND AND ASPHALT EDGE
 COURSE DETAILS SEE SHEET 10.

TYPICAL SECTIONS - US 62 WB (2) & EB (2)

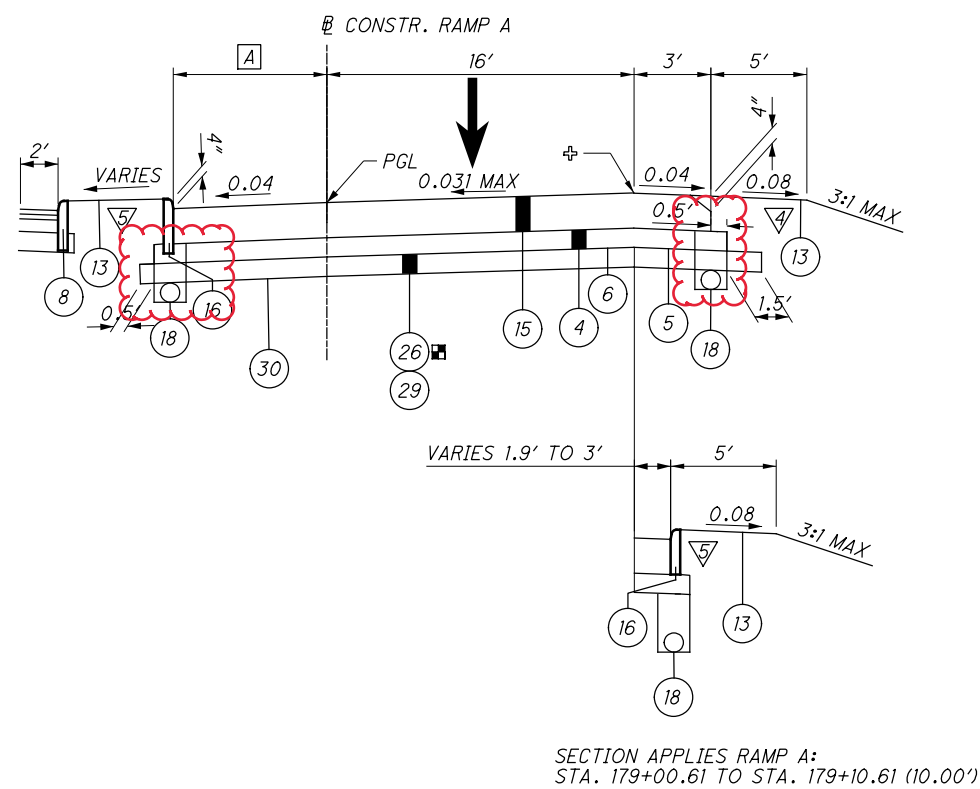
STA-062-24.14

...Roadway\Sheets\00824\Y001_11/22/2021 7:54:21 AM ghmassie

26 ITEM APPLIES:
RAMP A STA 181+00.00 TO STA 181+73.96 (73.96')

A VARIES 3.5' TO 6.0'
STA. 179+00.61 TO STA. 179+20.61
6.0'
STA. 179+20.61 TO STA. 180+73.96
VARIES 6.0' TO 10.0'
STA. 180+73.96 TO STA. 181+74.10

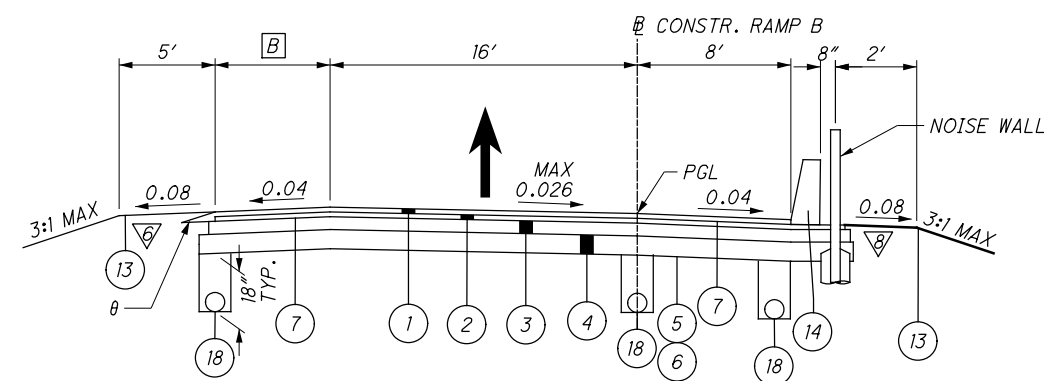
B VARIES 3.45' TO 3.00'
STA. 4171+95.00 TO STA. 4172+05.00



SECTION APPLIES RAMP A:
STA. 179+00.61 TO STA. 179+10.61 (10.00')

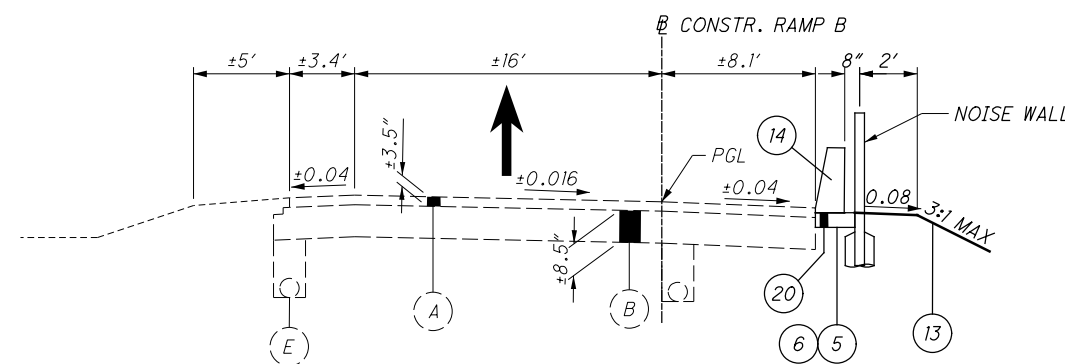
SUPERELEVATED CONCRETE SECTION - RAMP A

SECTION APPLIES RAMP A:
STA. 179+00.61 TO STA. 181+73.96 (273.35')



SUPERELEVATED SECTION - RAMP B

SECTION APPLIES RAMP B:
STA. 4171+95.00 TO STA. 4173+93.11 (198.11')



EX. RAMP B NORMAL SECTION

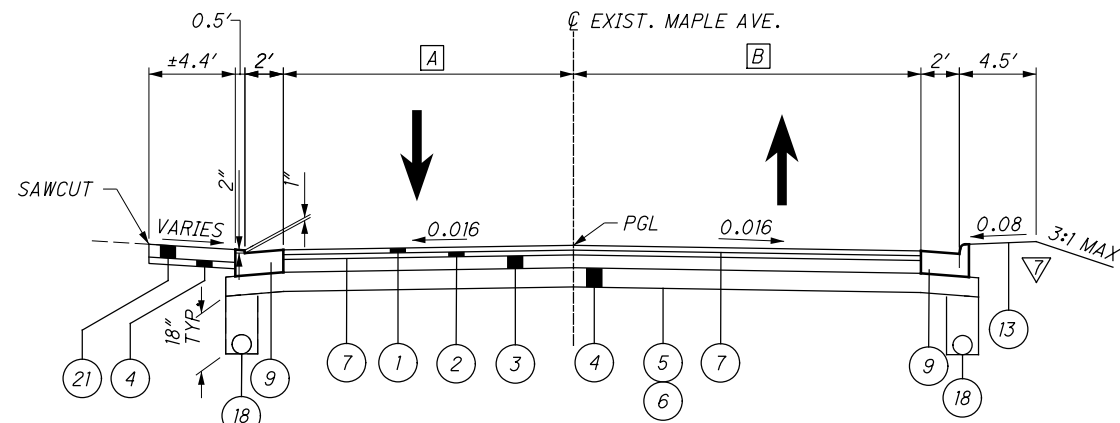
STA. 4171+95.00 AND BACK 252'.
SEE PLAN SHEET FOR DETAILS.

7.00% MAX. BREAK

FOR LEGEND AND ASPHALT EDGE
COURSE DETAILS SEE SHEET 10.

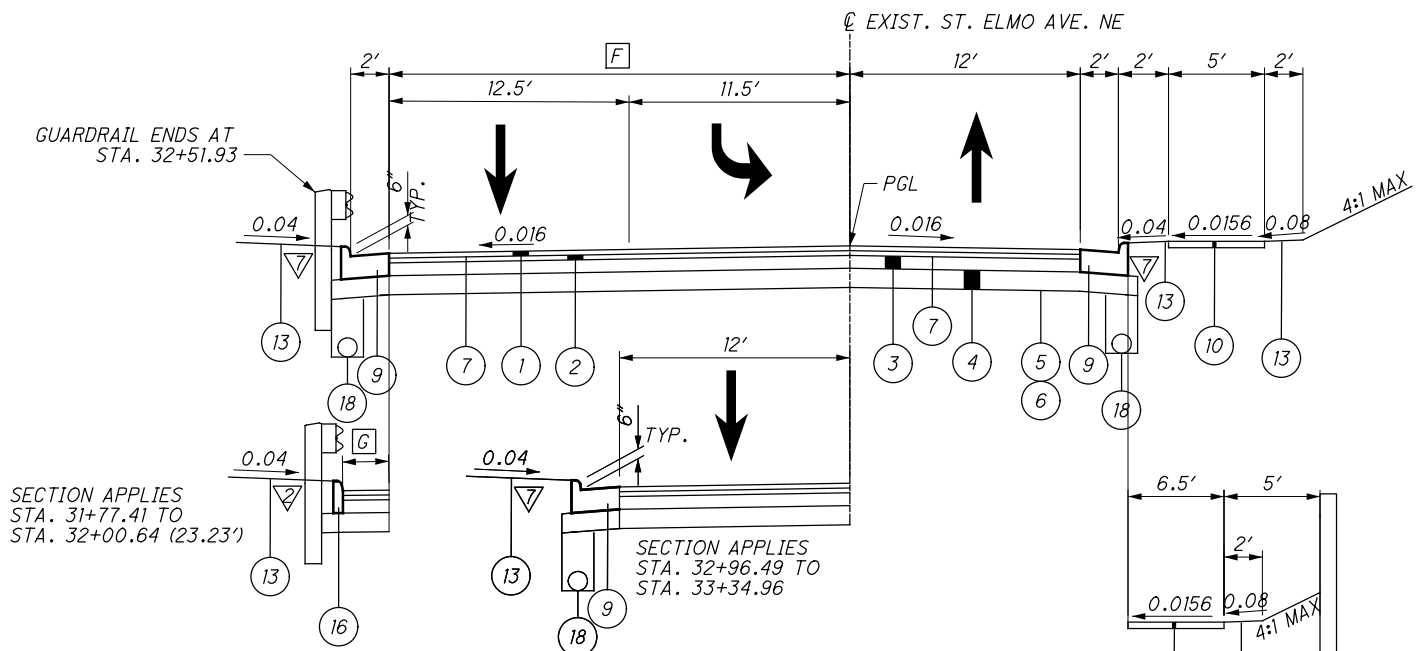
...Roadway\Sheets\100824\Y001_11/22/2021 7:54:44 AM ghmassie

θ - 40° MAX, SEE BP-3.2



NORMAL SECTION - MAPLE AVE.

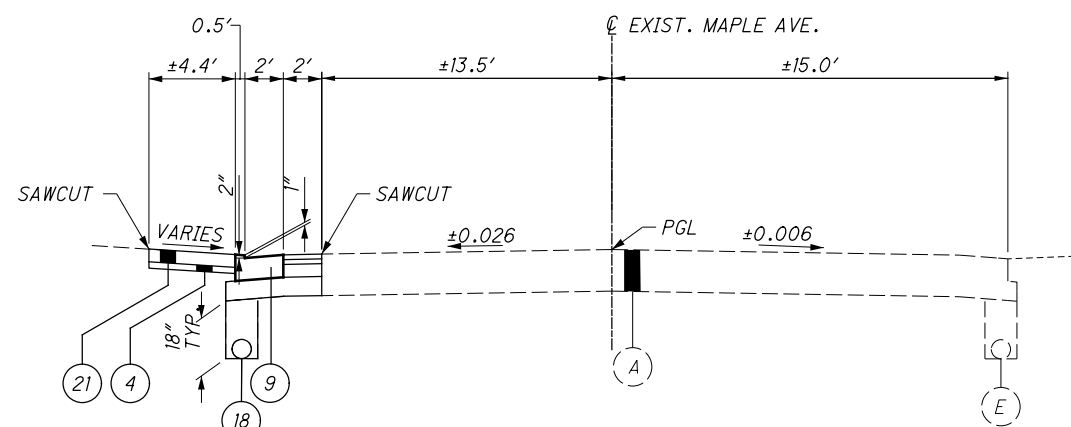
SECTION APPLIES MAPLE AVE.:
 STA. 1+39.00 TO STA. 3+08.08 (169.08')
 STA. 3+84.90 TO STA. 4+60.00 (75.10')



NORMAL SECTION - ST. ELMO AVE. NE

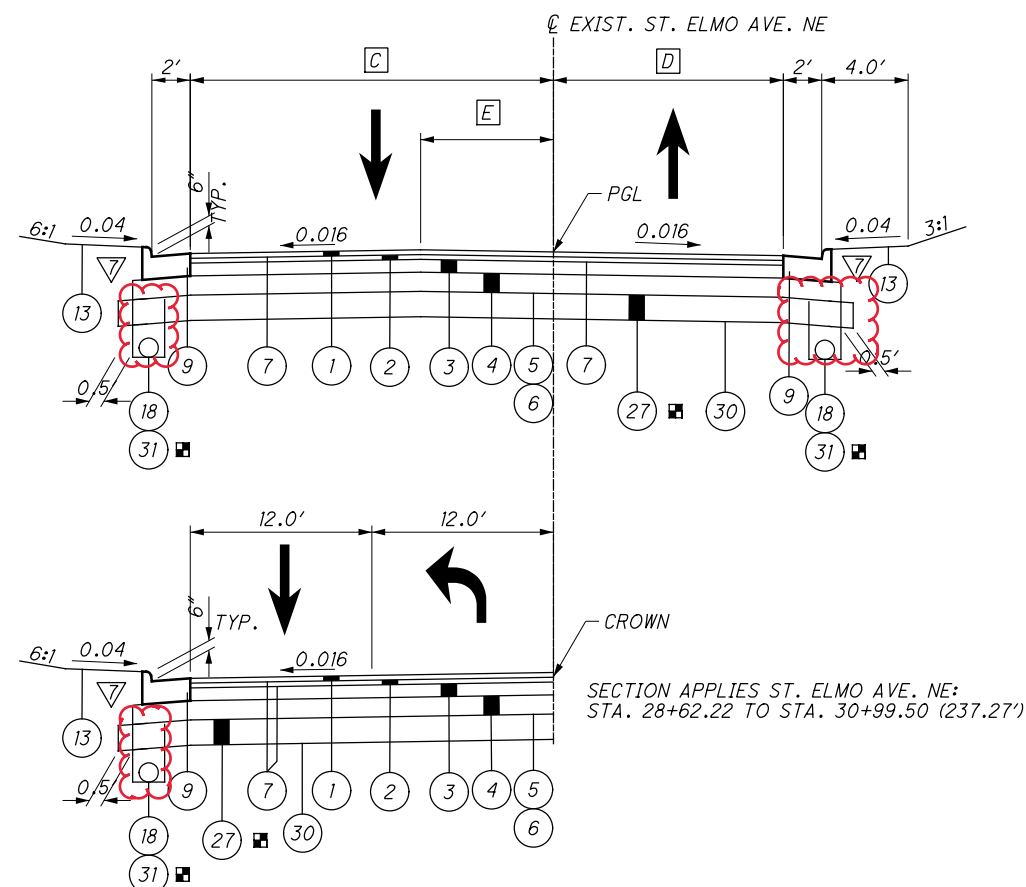
SECTION APPLIES ST. ELMO AVE. NE:
 STA. 30+99.50 TO STA. 33+34.96 (235.46')

SECTION APPLIES ST. ELMO AVE. NE:
 STA. 31+79.97 TO STA. 32+91.41 (111.44')



SAWCUT SECTION - MAPLE AVE.

SECTION APPLIES MAPLE AVE.:
 STA. 4+60.00 TO STA. 5+19.76 (59.76')



NORMAL SECTION - ST. ELMO AVE. NE

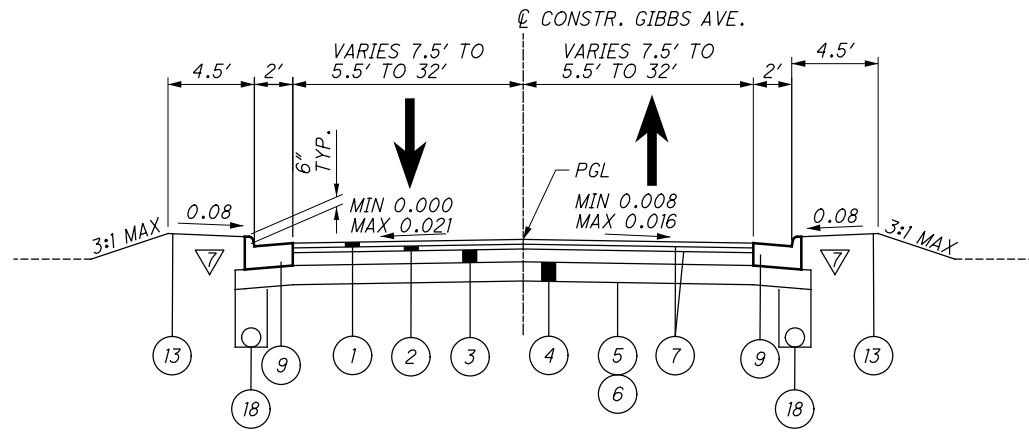
SECTION APPLIES ST. ELMO AVE. NE:
 STA. 27+70.00 TO STA. 30+99.50 (329.50')

ITEM APPLIES TO ST. ELMO AVE. NE:
 STA 27+70.00 TO STA 29+65.00 (195.00')

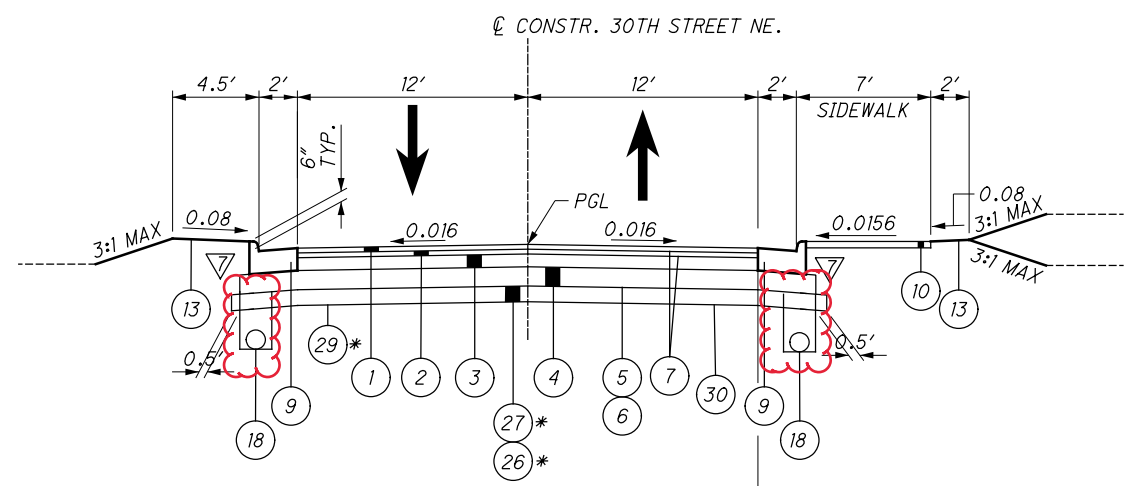
- [A] VARIES 13.34' TO 14.00'
 STA. 1+39.00 TO STA. 1+60.00
 15.00' TO 15.80'
 STA. 3+84.90 TO STA. 4+60.00
- [B] VARIES 15.53' TO 17.00'
 STA. 1+39.00 TO STA. 1+60.00
 16.40' TO 15.50'
 STA. 3+84.90 TO STA. 4+60.00
- [C] VARIES 17.62' TO 24.00'
 STA. 27+70.00 TO STA. 28+62.23
- [D] VARIES 12.16' TO 12.00'
 STA. 27+70.00 TO STA. 28+50.00
 12.00'
 STA. 28+50.00 TO STA. 30+99.50
- [E] VARIES 3.48' TO 0.0'
 STA. 27+70.00 TO STA. 28+50.00
- [F] 23.5'
 STA. 30+99.50 TO STA. 32+00.08
 VARIES 23.5' TO 12.0'
 STA. 32+00.08 TO STA. 32+96.49
- [G] VARIES 4.00' TO 2.00'
 STA. 31+77.41 TO STA. 32+00.08

FOR LEGEND AND ASPHALT EDGE COURSE DETAILS SEE SHEET 10.

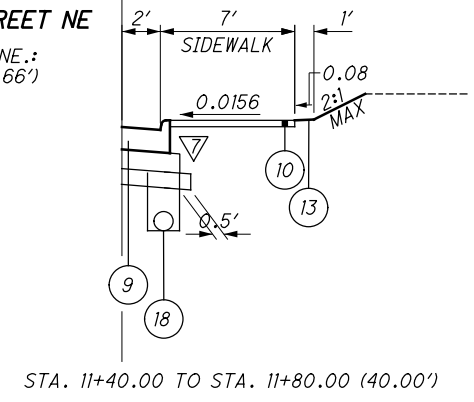
- 26* ITEM APPLIES:
30TH STREET NE. STA 8+27+00 TO STA 10+26.50
30TH STREET NE. STA 17+74.50 TO STA 23+00.00
- 27* ITEM APPLIES:
30TH STREET NE. STA 23+00.00 TO STA 23+44.00
- 29* ITEM APPLIES:
30TH STREET NE.
STA 8+29.69 TO STA 10+26.50
STA 17+74.50 TO STA 23+00.00
STA 23+00.00 TO STA 23+44.00



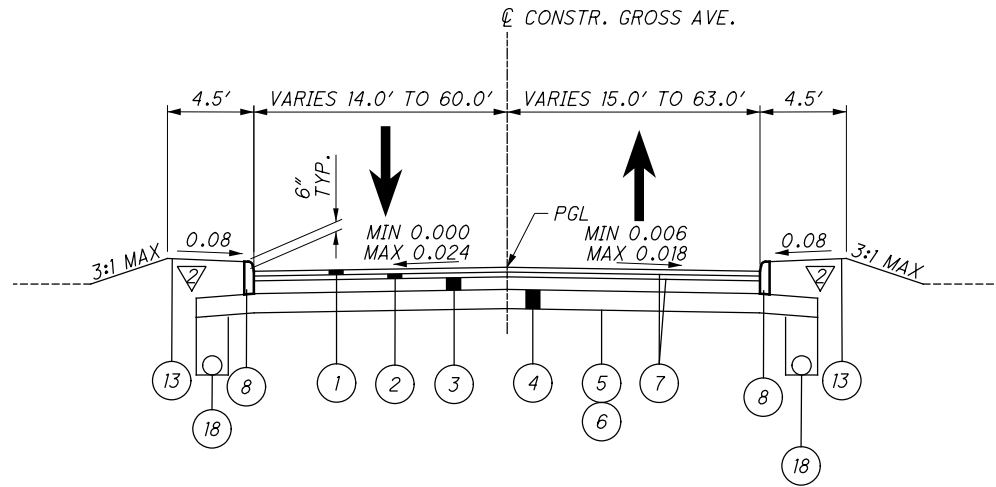
GIBBS AVE.
SECTION APPLIES GIBBS AVE.:
STA. 11+03.49 TO STA. 12+20.00 (116.51')
FOR MORE DETAILS SEE SHEET 186.



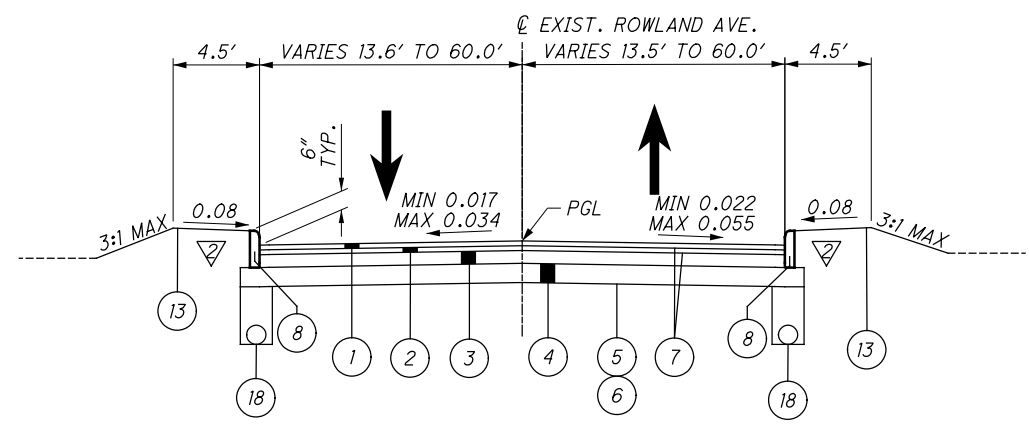
NORMAL SECTION - 30TH STREET NE
SECTION APPLIES 30TH STREET NE.:
STA. 8+27.00 TO STA. 23+44.66 (1517.66')



STA. 11+40.00 TO STA. 11+80.00 (40.00')



GROSS AVE.
SECTION APPLIES GROSS AVE.:
STA. 41+40.50 TO STA. 42+09.00 (68.50')
FOR MORE DETAILS SEE SHEET 188.



ROWLAND AVE.
SECTION APPLIES ROWLAND AVE.:
STA. 19+30.00 TO STA. 20+50.00 (120.00')
STA. 21+64.50 TO STA. 22+24.81 (60.31')
FOR MORE DETAILS SEE SHEET 187.

FOR LEGEND AND ASPHALT EDGE COURSE DETAILS SEE SHEET 10.

...Roadway\Sheets\100824\Y001_11/22/2021 7:55:56 AM ghmassie

TYPICAL SECTIONS - GIBBS AVE., ROWLAND AVE., GROSS AVE., 30TH STREET NE.

STA-062-24.14

WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A PREQUALIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS SHALL BE TRAINED IN ACCORDANCE WITH CMS 614.03, SHALL HAVE SUCCESSFULLY COMPLETED ODOT ADMINISTERED WTS TESTING (AND RE-TESTING WHEN APPLICABLE) AND BE LISTED ON THE ODOT PREQUALIFIED WTS ROSTER. PREQUALIFICATION EXPIRES EVERY 5 YEARS. RE-TESTING SHALL BE SUCCESSFULLY REPEATED EVERY 5 YEARS TO REMAIN PREQUALIFIED.

THE NAME OF THE PREQUALIFIED WTS AND RELATED 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7), THE CONTRACTOR MAY DESIGNATE AN ALTERNATE (SECONDARY) WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY; HOWEVER THE PRIMARY WTS SHALL REMAIN THE POINT OF CONTACT AT ALL TIMES. ANY ALTERNATE (SECONDARY) WTS IS SUBJECT TO THE SAME TRAINING, PREQUALIFICATION AND OTHER REQUIREMENTS OUTLINED WITHIN THIS PLAN NOTE. AT ALL TIMES THE ENGINEER, OR ENGINEER'S REPRESENTATIVES, MUST BE INFORMED OF WHO THE PRIMARY WTS (AND SECONDARY WTS, IF APPLICABLE) IS AT THE CURRENT TIME.

THE WTS POSITION HAS THE PRIMARY RESPONSIBILITY OF IMPLEMENTING THE TRAFFIC MANAGEMENT PLAN (TMP), MONITORING THE SAFETY AND MOBILITY OF THE ENTIRE WORK ZONE, AND CORRECTING TEMPORARY TRAFFIC CONTROL (TTC) DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE WTS, AND ALTERNATE WTS WHEN ON DUTY, SHALL HAVE SUFFICIENT AUTHORITY TO EFFECTIVELY CARRY OUT THE IDENTIFIED WTS RESPONSIBILITIES AND DUTIES. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS.
2. BE ON SITE FOR ALL EMERGENCY TTC NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF, AND EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TTC DEVICES.
3. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TTC MANAGEMENT IS DISCUSSED.
4. BE AVAILABLE ON SITE FOR OTHER MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST.
5. BE AWARE OF ALL EXISTING AND PROPOSED TTC OPERATIONS OF THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS, AND ENSURE COORDINATION OCCURS BETWEEN THEM TO ELIMINATE CONFLICTING TEMPORARY AND/OR PERMANENT TRAFFIC CONTROL.
6. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOs). THE WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE LEOS ARE ON THE PROJECT.
7. COORDINATE AND FACILITATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS THE WORK ZONE TTC FOR IMPLEMENTING THE PHASE SWITCH. SUBMIT A WRITTEN DETAIL OF MOT OPERATIONS AND SCHEDULE OF EVENTS TO IMPLEMENT THE SWITCH BETWEEN PHASE PLANS TO THE ENGINEER 5 CALENDAR DAYS PRIOR TO THIS MEETING.
8. BE PRESENT, ON SITE FOR, AND INVOLVED WITH, EACH TTC SET UP/TAKE DOWN AND EACH PHASE CHANGE IN ACCORDANCE WITH CMS 614.03.

WORKSITE TRAFFIC SUPERVISOR (CONTINUED)

9. ON A CONTINUAL BASIS ENSURE THAT THE TTC ZONE AND ALL RELATED DEVICES ARE INSTALLED, MAINTAINED AND REMOVED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

10. ON A CONTINUAL BASIS FACILITATE CORRECTIVE ACTION(S) NECESSARY TO BRING DEFICIENT TTC ZONES AND ALL RELATED DEVICES INTO COMPLIANCE WITH CONTRACT DOCUMENTS IN THE TIMEFRAME DETERMINED BY THE ENGINEER.

11. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TTC DEVICES AND TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, PERFORM ONE WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:

- A. INITIAL TTC SETUP (DAY AND NIGHT REVIEW).
- B. DAILY TTC SETUP AND REMOVAL.
- C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TTC SETUP.
- D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA AND WITHIN THE INFLUENCE AREA(S) APPROACHING THE WORK ZONE.
- E. REMOVAL OF TTC DEVICES AT THE END OF A PHASE OR PROJECT.
- F. ALL OTHER EMERGENCY TTC NEEDS.

12. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8) AFTER EACH INSPECTION AS REQUIRED IN #11 AND SUBMIT IT TO THE ENGINEER THE FOLLOWING WORKDAY. THESE REPORTS SHALL INCLUDE A CHECKLIST OF ALL TTC MAINTENANCE ITEMS TO BE REVIEWED. A COPY OF THE FORM WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. ANY DEFICIENCIES OBSERVED SHALL BE NOTED, ALONG WITH RECOMMENDED OR COMPLETED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THE CURRENT CA-D-8 DOCUMENT CAN BE FOUND ON THE OFFICE OF CONSTRUCTION ADMINISTRATION'S INSPECTION FORMS WEBSITE.

13. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL DEDUCT:

- A. THE PRORATED DAILY AMOUNT OF ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY IN WHICH THE WTS FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. THE PRORATED DAILY AMOUNT WILL BE EQUAL TO THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC DIVIDED BY THE DIFFERENCE BETWEEN THE ORIGINAL COMPLETION DATE AND THE FIRST DAY OF WORK, IN CALENDAR DAYS.
- B. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A TTC ISSUE IS IDENTIFIED IN THE FIELD AND IS NOT CORRECTED IN THE GIVEN TIMEFRAME PER THE ENGINEER. DEDUCTION B SHALL NOT APPLY TO SITUATIONS COVERED BY DEDUCTION C.
- C. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A LANE OR RAMP IS BLOCKED (FULLY OR PARTIALLY) WITHOUT TTC, AS DETERMINED BY THE ENGINEER. THIS DEDUCTION SHALL BE IN ADDITION TO ANY OTHER DISINCENTIVES ESTABLISHED FOR UNAUTHORIZED LANE USE.

WORKSITE TRAFFIC SUPERVISOR (CONTINUED)

FOR DAYS IN WHICH MORE THAN ONE DEDUCTION LISTED ABOVE OCCUR, THE HIGHEST DEDUCTION AMOUNT WILL APPLY.

IF THREE OR MORE TOTAL DAYS RESULT IN TTC ISSUES DESCRIBED IN DEDUCTION B OR C ABOVE, THE PRIMARY WTS SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05. UPON REMOVAL THE ENGINEER SHALL NOTIFY ODOT CENTRAL OFFICE (WTSPrequalification@dot.ohio.gov) TO REGISTER A REMOVAL AGAINST THE STATEWIDE PREQUALIFICATION FOR THE PRIMARY WTS. THREE REMOVALS SHALL CAUSE STATEWIDE DISQUALIFICATION FOR ANY PREVIOUSLY PREQUALIFIED WTS.

PAYMENT FOR THE ABOVE REQUIREMENTS, RESPONSIBILITIES AND DUTIES SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 622 - PORTABLE BARRIER PLACEMENT

DURING THE PLACEMENT OF THE PORTABLE BARRIER, TRAFFIC WILL BE PROHIBITED FROM OCCUPYING THE TRAVEL LANE ADJACENT TO THE BARRIER. THE BARRIER WILL BE PLACED AT NIGHT PER THE WORK HOUR RESTRICTION NOTE AND IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE MAP. THE CLOSURE OF THE ADJACENT LANE WILL BE PER THE STANDARD DRAWING MT-95.30.

THE CONTRACTOR WILL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL SEVEN (7) DAYS IN ADVANCE OF THE PLANNED LANE CLOSURE. WORK WILL NOT BEGIN UNTIL APPROVAL OF THE PLANS HAS BEEN GRANTED.

ALL COSTS INVOLVED IN PLACING THE PORTABLE CONCRETE BARRIER WILL BE INCLUDED IN THE CONTRACT PRICE BID FOR ITEM 622 PORTABLE CONCRETE BARRIER.

PARCEL 76 (1132 30TH ST. NE) CONSTRUCTION WITH ACTIVITY TIME RESTRICTIONS

THE CONTRACTOR SHALL ARRANGE/SCHEDULE THE WORK IN SUCH A MANNER TO MINIMIZE THE INCONVENIENCE TO THE PROPERTY OWNER AND THE BUSINESS OPERATIONS. THE DURATION AT WHICH THE CONTRACTOR CAN CONSTRUCT THE IMPROVEMENTS ON THE PARCEL ARE IDENTIFIED BELOW IS BEING RESTRICTED AS FOLLOWS.

WORK WITHIN THE TEMPORARY R/W SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO MAXIMIZE THE USE OF THE TEMPORARY R/W AREA BY THE PROPERTY OWNER. THE TEMPORARY R/W AREA SHALL BE MAINTAINED UNTIL THE CONTRACTOR IS READY TO PERFORM THE PROPOSED WORK ON THAT PARCEL. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER, IN WRITING, 30 DAYS PRIOR TO COMMENCING WORK WITHIN THE TEMPORARY RW TO ALLOW THE OWNER TIME TO REMOVE ANY ITEMS THAT MAY OBSTRUCT THE PROPOSED WORK. THE CONTRACTOR SHALL BE ALLOWED A TOTAL OF THIRTY (30) CONSECUTIVE CALENDAR DAYS TO COMPLETE THE WORK IN THE TEMPORARY R/W AREA AND DRIVEWAYS.

IN ADDITION TO SECTION 104.04 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL, IF A PARCEL HAS TWO DRIVEWAYS, BOTH DRIVEWAYS SHALL NOT BE CLOSED CONCURRENTLY.

AS PER ITEM 108.07, FAILURE TO COMPLETE ON TIME, IF THE CONTRACTOR FAILS TO COMPLETE THE SPECIFIED WORK WITHIN THE TIME RESTRICTIONS NOTED ABOVE, THE CONTRACTOR SHALL BE REQUIRED TO PAY LIQUIDATED DAMAGES OF \$100.00 PER CALENDAR DAY THAT ANY WORK ON THE DRIVEWAYS OR TEMPORARY R/W REMAINS UNCOMPLETED.

THE BUSINESS SIGN IS TO BE REMOVED BY THE PROPERTY OWNER BY THE BEGINNING OF CONSTRUCTION 1/1/22.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLESTACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

- ITEM 614, BARRIER REFLECTOR, TYPE I (ONE-WAY) 266 EACH
- ITEM 614, OBJECT MARKER, ONE-WAY 266 EACH
- ITEM 614, INCREASED BARRIER DELINEATION (AT CROSSOVERS PHASE 1A) 1,750 FEET

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

...TS Sheets 100824MN001.dgn 11/16/2021 1:53:26 PM ssopraseuth

CALCULATED
SS
CHECKED
GAH

MAINTENANCE OF TRAFFIC NOTES

STA - 062 - 24.14

...Sheets\TS_Sheets\00824_MS001_11/16/2021 5:42:28 PM ssopraseuth

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	COMPUTER GENERATED AREA	202 614 614 614 614 614 614 614 614 614 614 614 614 614 614 614 614 615 615 622 622																	
			FROM	TO			SF	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	SY	SY	FT
PHASE 1																								
55-58	ELY-1	EX ROW US 62 & EX US 62	1165+58	1187+19	LT&RT																		2023.0	
55-58	PMT-1	EX US 62	1171+34	1183+68	LT&RT	21047.4																	2,338.6	
55-59	ELY-2	EX US 62	1171+34	1189+93	RT																		1859.0	
55-56	GR-1	EX US 62	1172+70	1173+78	LT		108																	
56	CH-1	US 62 EB (1)	2173+88	2175+91	RT																		203.0	
56-58	ELW-1	EX US 62 (1)	2175+91	1186+19	RT																		886.1	
57-58	PMT-2	EX US 62	1180+13	1186+19	RT	5522.9																	613.7	
57-58	PB-1	RAMP A & EX US 62	1179+00	1187+29	LT&RT																		710	
58	PB-2	EX US 62	1184+94	1186+69	LT&RT																		175	
58	PB-3	EX US 62	1184+90	1187+67	LT&RT																		280	
58	IA-1	EX US 62	1187+24	1187+62	RT																			
58	IA-2	EX US 62	1184+62	1184+94	RT																		1	
58	IA-3	EX US 62	1187+67	1188+00	RT																		1	
60	PMT-3	EX US 62	1197+24	1197+62	LT	382.4																		
60	PB-2	EX US 62	1198+05	1199+58	LT																		42.5	
61-62	ELW-2	US 62 EB (2)	202+48	210+35	RT																		150	
61-62	PMT-4	US 62 EB (2)	203+52	205+77	RT	941.5																	104.6	
62-63	PMT-5	US 62 WB (2)	206+38	211+55	RT	9240.0																	1,026.7	
62-63	ELY-3	US 62 WB (2) & EX US 62 WB	206+48	1213+43	RT																			
62	CH-2	US 62 WB (2)	206+48	207+12	RT																			
62	ELY-4	US 62 EB (2)	206+54	208+48	LT																			
62	LL-1	US 62 EB (2)	206+65	210+39	RT																		385	
62-63	PMT-6	US 62 EB (2)	206+55	211+00	RT	2470.0																		
119		EX US 62 WB	1207+26		LT&RT																			
PHASE 1.1																								
65	PMT-1	ROWLAND AVE	20+49	20+60	LT&RT	240.1																		
65	SL-1	ROWLAND AVE	20+50		LT																		26.7	
65	PMT-2	ROWLAND AVE	21+53	22+09	LT&RT	1633.1																	181.5	
PHASE 1A																								
66-70	ELW-1	EX US 62	1168+14	1190+02	LT																			
66-68	ELY-1	EX US 62	1170+65	1181+74	LT&RT																			
66-68	CH-1	EX US 62	1170+38	1178+98	RT																			
66-68	PB-1	EX US 62	1171+39	1181+06	LT&RT																			
66-69	PB-2	EX US 62	1172+61	1185+52	LT&RT																			
67-68	ELY-2	EX US 62	1173+39	1181+74	RT																			
67-69	ELW-2	EX US 62	1173+39	1186+48	RT																			
68-69	LL-1	EX US 62	1178+98	1186+48	RT																			
68	IA-1	EX US 62	1181+06	1181+39	RT																			
68-69	DYL-1	EX US 62	1181+74	1185+49	LT																			
68-69	DYL-2	EX US 62	1181+74	1185+49	LT																			
69	IA-2	EX US 62	1185+52	1185+84	LT																			
69	DSL-1	EX US 62	1185+49	1186+48	RT																			
69	DSL-2	EX US 62	1185+49	1186+48	LT&RT																			
70-75	ELW-3	EX US 62 & EX US 620 WB	1190+86	1220+00	LT&RT																			
71-72	DLW-1	EX US 62 & EX US 62 EB (2)	1199+32	203+16	RT																			
71-73	DYL-3	EX US 62 & EX US 62 EB (2)	1199+32	208+62	RT																			
71-72	DYL-4	EX US 62 & EX US 62 EB	1199+32	203+16	RT																			
116		EX CROSSOVER US 62	1169+75	1174+52	LT&RT																			
SUBTOTALS THIS SHEET																								
SUBTOTALS THIS SHEET (REVISED)																								
TOTALS CARRIED TO NEXT SHEET																								
						108	5	72	0.21	0.47	1.63	1.2	1127	495.5	15	72	0	1	1,243.3	3,365.3	2,605	970		
						108	5	72	0.21	0.47	1.63	1.2	1127	495.5	15	72	0	1	1,243.3	3,365.3	2,605	970		

MAINTENANCE OF TRAFFIC SUBSUMMARY

STA - 062 - 24.14

CALCULATED
SS
CHECKED
GAH

...Sheets\TS_Sheets\00824_MS001_11/16/2021 15:42:28 PM ssopraseuth

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	COMPUTER GENERATED AREA	202	614	614	614	614	614	614	614	614	614	614	614	615	615	622	622	
			GUARDRAIL REMOVED	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)			BARRIER REFLECTOR, TYPE 1, ONE-WAY	WORK ZONE LANE LINE, CLASS 1, 6", 642 PAINT	WORK ZONE CENTER LINE, CLASS 1, 642 PAINT	WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS 1, 12", 642 PAINT	WORK ZONE DOTTED LINE, CLASS 1, 6", 642 PAINT	WORK ZONE STOP LINE, CLASS 1, 642 PAINT	OBJECT MARKER, ONY WAY	WORK ZONE ARROW, CLASS 1	SPECIAL WORK ZONE TRAFFIC SIGNAL	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	PORTABLE BARRIER, UNANCHORED	PORTABLE BARRIER, 50", AS PER PLAN		
			FROM	TO		SF	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	SY	SY	FT	FT	
72 - 74	PB-3	EX US 62 WB & EX US 62 WB	1203+01	1213+24	RT				21							21					1030		
73	DYL-5	US 62 EB (2)	206+23	208+62	LT&RT					239													
73	ELY-3	US 62 EB (2)	208+62	209+88	RT							126.0											
73 - 74	ELY-4	US 62 EB (2) & US 62 WB (2)	208+62	211+56	LT&RT							306.0											
74	IA-3	EX US 62 WB	1213+24	1213+56	LT			1															
117		EX CROSSOVER US 62	1207+54	1213+40	LT&RT																		
		PHASE 1B																					
76 - 84	ELY-1	EX ROW US 62 & EX US 62 EB	1166+49	1215+04	LT&RT							4724.1											
76 - 77	DL-1	EX US 62	1167+73	1173+53	RT										580.3								
76 - 84	ELY-2	EX ROW US 62 & EX US 62 WB	1169+84	1213+53	LT&RT							4403.6											
76 - 84	LL-1	EX US 62 & EX US 62 WB	1169+84	1213+37	LT&RT				4289.6														
76	IA-1	EX US 62	1171+06	1171+39	RT			1															
76 - 78	ELW-1	EX US 62 & US 62	1171+34	181+81	LT						1188.1												
76 - 79	PB-1	EX US 62 & US 62	1171+34	184+68	LT				29						29						1470		
76 - 78	PB-2	EX US 62	1171+39	1183+81	RT				25						25						1240		
76 - 79	ELW-2	EX US 62	1173+53	1185+36	RT						1176.3												
78 - 79	CH-1	US 62	181+81	183+10	LT								131.2										
78	CM-1	US 62	181+81	183+10	LT																		
78	ELY-3	RAMP A	179+01	181+74	RT								276.3										
78 - 81	ELW-3	RAMP A & ST. ELMO AVE	179+01	31+80	CL<							2231											
78 - 79	CH-2	RAMP A	181+74	183+06	RT								132.0										
79 - 80	DL-1	US 62	183+10	189+18	LT										618.6								
79	IA-2	US 62	184+68	185+00	LT			1															
79 - 80	PB-3	EX US 62	1188+08	1195+00	RT				14						14						690		
81	CH-3	US 62	196+11	196+40	LT								89.5										
81 - 83	ELW-4	US 62 & MAPLE AVE	196+71	4+23	LT							1639.4											
81	IA-3	EX US 62	1197+98	1198+30	RT			1															
81 - 84	PB-4	EX US 62 & US 62 EB (2)	1198+30	211+65	RT				26						26						1310		
82 - 84	PB-5	US 62 & US 62 WB (2)	199+91	211+23	LT&RT				29						29						1140		
82 - 84	ELW-5	US 62 EB (2) & EX US 62 EB	203+35	1215+04	RT							1059.9											
83	SL-1	MAPLE AVE	3+97	3+97	LT										15								
83	CH-4	US 62 WB (2)	205+94	208+37	LT								241.9										
83	CH-5	US 62 WB (2) & MAPLE AVE	205+94	4+60	LT&CL								78.9										
83	CH-6	US 62 WB (2) & MAPLE AVE	206+40	4+60	LT&CL								84.8										
83	ELW-6	MAPLE AVE & US 62 WB (2)	4+29	208+83	LT							273.3											
83	LA-1	US 62 WB (2)	206+71		LT											1							
83	LA-2	US 62 WB (2)	207+34		LT											1							
83	LA-3	US 62 WB (2)	208+03		LT											1							
84	IA-4	US 62 WB (2)	211+23	211+73	RT			1															
SUBTOTALS THIS SHEET										FT	FT	FT	FT										
										4,290	239	7,568	9836.0										
										MILE	MILE	MILE	MILE										
SUBTOTALS THIS SHEET (REVISED)							0	5	144	0.81	0.05	1.43	1.9	758.3	1198.9	15	144	3	0	0.0	0.0	6,880	0
SUBTOTALS PREVIOUS SHEET							108	5	72	0.21	0.47	1.63	1.2	1,127	496	15	72	0	1	1,243.3	3,365.3	2,605	970
TOTALS CARRIED TO NEXT SHEET							108	10	216	1.02	0.52	3.06	3.1	1,885	1694.4	30	216	3	1	1,243.3	3,365.3	9,485	970

CALCULATED SS CHECKED GAH
STA - 062 - 24.14
MANTENANCE OF TRAFFIC SUBSUMMARY
 36
 500

...:\Sheets\TS_Sheets\00824_MS001_11/16/2021 1:54:29 PM ssoprasureth

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	COMPUTER GENERATED AREA	202		614		614		614		614		614		614		615		615		622		622				
			FROM	TO			SF	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	SY	SY	FT	FT						
		PHASE 2																													
86	DL-1	EX ROW US 62	1166+87	1169+76	RT																										
86	DL-2	EX ROW US 62	1166+87	1171+35	RT																										
86	IA-1	EX US 62	1170+54	1170+86	RT																										
86 - 91	ELW-1	EX US 62 & US 62	1170+86	196+13	RT																										
86 - 88	PB-1	EX US 62 & US 62 EB (1)	1169+86	2181+35	RT																										
89 - 90	ELY-1	EX US 62 & US 62	1170+98	193+71	LT&RT																										
89	ELW-2	30TH ST NE	10+78	14+14	LT																										
89 - 91	DYL-1	30TH ST NE	11+07	22+66	LT																										
89 - 91	ELW-3	30TH ST NE	11+07	23+14	LT																										
90	ELW-4	30TH ST NE	15+81	16+81	LT																										
90	DL-3	US 62	192+21	192+69	RT																										
90 - 91	ELY-2	US 62	192+69	195+88	RT																										
90 - 91	CH-1	US 62	192+69	195+88	LT&RT																										
90 - 91	DYL-2	US 62	193+73	195+88	LT																										
91	LA-1	US 62	194+38		LT																										
91	LA-2	US 62	195+04		LT																										
91	LA-3	US 62	195+70		LT																										
91	SL-1	US 62	195+88		LT&RT																										
91	SL-2	US 62	196+95		LT&RT																										
91 - 94	ELW-5	US 62 & EX US 62 EB	196+50	1215+85	LT&RT																										
91 - 94	ELY-3	US 62 & EX US 62 EB	196+95	1215+85	LT&RT																										
91	IA-2	US 62	197+64	197+97	RT																										
91 - 93	PB-2	US 62 & US 62 EB (2)	197+97	205+77	RT																										
91	ELW-6	30TH ST NE & US 62	21+37	196+13	LT&RT																										
91	SL-3	30TH ST NE	22+66		LT																										
91	SL-4	ST ELMO AVE	31+65		LT																										
91	CH-3	ST ELMO AVE	31+65	31+90	LT																										
91	DYL-3	ST ELMO AVE	31+65	33+06	CL																										
91	LA-4	ST ELMO AVE	31+75		LT																										
93	IA-3	US 62 EB (2)	206+43	206+76	RT																										
93 - 94	PB-3	US 62 EB (2) & EX US 62 EB	206+76	1213+09	LT&RT																										
SUBTOTALS THIS SHEET																															
SUBTOTALS THIS SHEET (REVISED)																															
SUBTOTALS PREVIOUS SHEET																															
TOTALS CARRIED TO NEXT SHEET																															

CALCULATED SS CHECKED GAH
STA - 062 - 24.14
MANTENANCE OF TRAFFIC SUBSUMMARY

...Sheets\TS_Sheets\00824_MS001_11/16/2021 1:54:29 PM ssopraseth

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	COMPUTER GENERATED AREA	202	614	614	614	614	614	614	614	614	614	614	614	615	615	622	622	
			GUARDRAIL REMOVED	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)			BARRIER REFLECTOR, TYPE 1, ONE-WAY	WORK ZONE LANE LINE, CLASS 1, 6", 642 PAINT	WORK ZONE CENTER LINE, CLASS 1, 642 PAINT	WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS 1, 12", 642 PAINT	WORK ZONE DOTTED LINE, CLASS 1, 6", 642 PAINT	WORK ZONE STOP LINE, CLASS 1, 642 PAINT	OBJECT MARKER, ONY WAY	WORK ZONE ARROW, CLASS 1	SPECIAL WORK ZONE TRAFFIC SIGNAL	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	PORTABLE BARRIER, UNANCHORED	PORTABLE BARRIER, 50", AS PER PLAN		
			FROM	TO		SF	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	SY	SY	FT	FT	
PHASE 2A																							
96	LL-1	EX ROW US 62	1166+87	1169+76	RT					289													
96 - 101	LL-2	EX ROW US 62	1166+87	195+88	RT					2891													
96 - 97	ELW-1	US 62 EB (1)	2171+85	2173+91	RT							206											
96 - 101	ELY-1	EX US 62 & US 62	1170+98	195+94	LT&RT								2636.5										
96 - 97	ELY-2	RAMP B	4171+95	4173+93	LT								198.0										
96 - 101	ELW-2	RAMP B & US 62	4171+95	195+88	LT&RT							23725											
97 - 98	CH-1	US 62 EB (1)	2173+91	2180+50	RT									659									
97 - 98	CH-2	RAMP B & US 62 EB (1)	4173+93	2180+50	LT&RT								658.2										
98 - 99	DL-1	US 62 EB (1) & US 62	2180+50	186+58	RT										599.2								
100 - 101	CH-3	US 62	193+20	195+88	RT									268									
100	LA-1	US 62	193+22		RT												1						
100 - 101	ELY-3	US 62	193+71	195+94	LT								227.4										
100	LA-2	US 62	193+73		RT												1						
100	ELW-3	30TH ST NE	19+64	20+98	LT							147.4											
100	ELW-4	30TH ST NE	19+64	20+98	LT&RT								141.7										
100 - 101	DYL-1	30TH ST NE	19+64	23+04	LT&CL					351													
101	CH-4	US 62	194+21	195+88	LT&RT									167.5									
101	LA-3	US 62	194+39		RT												1						
101	LA-4	US 62	195+04		LT												1						
101	LA-5	US 62	195+70		LT												1						
101	SL-1	US 62	195+88		LT&RT										53								
101 - 102	ELW-5	ST ELMO AVE & EX US 62 EB	30+24	1204+96	RT							753.9											
101	DYL-3	US 62	196+95	198+54	RT					158.4													
101 - 102	CH-5	US 62	196+95	200+21	LT								326.0										
101 - 104	LL-2	US 62 & EX US 62 EB	196+95	1217+25	RT					1919													
101 - 102	CH-6	US 62	196+96	200+21	LT								328.9										
101	LA-6	US 62	197+05		RT												1						
101	DYL-4	US 62	197+26	198+54	RT							128.6											
101	LA-7	US 62	197+71		RT												1						
101	LA-8	US 62	198+37		LT												1						
101 - 104	ELY-4	US 62 & EX US 62 WB	198+54	1213+53	LT&RT								1515.1										
101 - 104	ELY-5	US 62 & EX US 62 EB	198+54	1217+25	LT&RT								1756.4										
101	LA-9	US 62	199+03		RT												1						
101	SL-3	30TH ST NE	23+04		RT																		
101	DYL-5	ST ELMO AVE	29+50	30+24	LT					74							12						
101	CH-7	ST ELMO AVE	29+50	30+24	CL					74													
101	LA-10	ST ELMO AVE	29+52		LT												1						
SUBTOTALS THIS SHEET										FT	FT	FT	FT										
							5,099	786	24,974	6333.4													
							MILE	MILE	MILE	MILE													
SUBTOTALS THIS SHEET (REVISED)							0	0	0	0.97	0.15	4.73	1.2	2407.6	599.2	65	0	10	0	0.0	0.0	0	0
SUBTOTALS PREVIOUS SHEET							108	13	266	1.02	0.81	4.27	3.9	2,232	2,480	172	266	7	1	1,243.3	3,365.3	11,975	970
TOTALS CARRIED TO NEXT SHEET							108	13	266	1.99	0.96	9.00	5.1	4,640	3079	237	266	17	1	1,243.3	3,365.3	11,975	970

MAINTENANCE OF TRAFFIC SUBSUMMARY

STA - 062 - 24.14

CALCULATED
SS
CHECKED
GAH

...Sheets\TS_Sheets\00824_MS001_11/16/2021 1:54:29 PM ssoprasedu

SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	COMPUTER GENERATED AREA	202	614	614	614	614	614	614	614	614	614	614	614	615	615	622	622				
			GUARDRAIL REMOVED	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)			BARRIER REFLECTOR, TYPE 1, ONE-WAY	WORK ZONE LANE LINE, CLASS 1, 6", 642 PAINT	WORK ZONE CENTER LINE, CLASS 1, 642 PAINT	WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS 1, 12", 642 PAINT	WORK ZONE DOTTED LINE, CLASS 1, 6", 642 PAINT	WORK ZONE STOP LINE, CLASS 1, 642 PAINT	OBJECT MARKER, ONY WAY	WORK ZONE ARROW, CLASS 1	SPECIAL WORK ZONE TRAFFIC SIGNAL	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	PORTABLE BARRIER, UNANCHORED	PORTABLE BARRIER, 50", AS PER PLAN					
			FROM	TO		SF	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	SY	SY	FT	FT				
PHASE 2A																										
101	LA-11	ST ELMO AVE	30+06		LT																					
101	SL-4	ST ELMO AVE	30+24		LT&RT																					
102	LA-12	US 62	199+69		LT																					
102-103	CH-8	EX US 62 EB	1205+46	1207+28	RT																					
102	LA-13	EX US 62 EB	1205+87		RT																					
103	LA-14	EX US 62 EB	1206+53		RT																					
103	CH-9	MAPLE AVE	2+41	3+08	LT																					
103	CH-10	MAPLE AVE	2+57	3+08	RT																					
103	SL-5	MAPLE AVE	2+95	3+06	RT																					
103-105	ELW-8	MAPLE AVE & EX US 62 EB	1207+43	1217+25	RT																					
PHASE 3																										
108-110	DYL-1	30TH ST NE	8+27	15+98	CL																					
110	DYL-2	30TH ST NE	16+48	20+98	CL																					
SUBTOTALS THIS SHEET										FT	FT	FT	FT													
SUBTOTALS THIS SHEET (REVISED)										0	1,221	1,009	0.0													
SUBTOTALS PREVIOUS SHEET										0	0	0	0.00	0.23	0.19	0.0	291.7	0	42	0	4	0	0			
										108	13	266	1.99	0.96	9.00	5.1	4,640	3,079	237	266	17	1	1,243.3	3,365.3	11,975	970
TOTALS CARRIED TO SHEET 33												266								266						
TOTALS CARRIED TO GENERAL SUMMARY										108	13	266	1.99	1.19	14.31	4,932	3,079	279		21	1	1,243	3,366	11,975	970	

CALCULATED SS CHECKED GAH
STA - 062 - 24.14
MANTENANCE OF TRAFFIC SUBSUMMARY

39
500

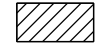







CALCULATED SS
CHECKED GAH

MAINTENANCE OF TRAFFIC SCHEMATIC - PHASE 1

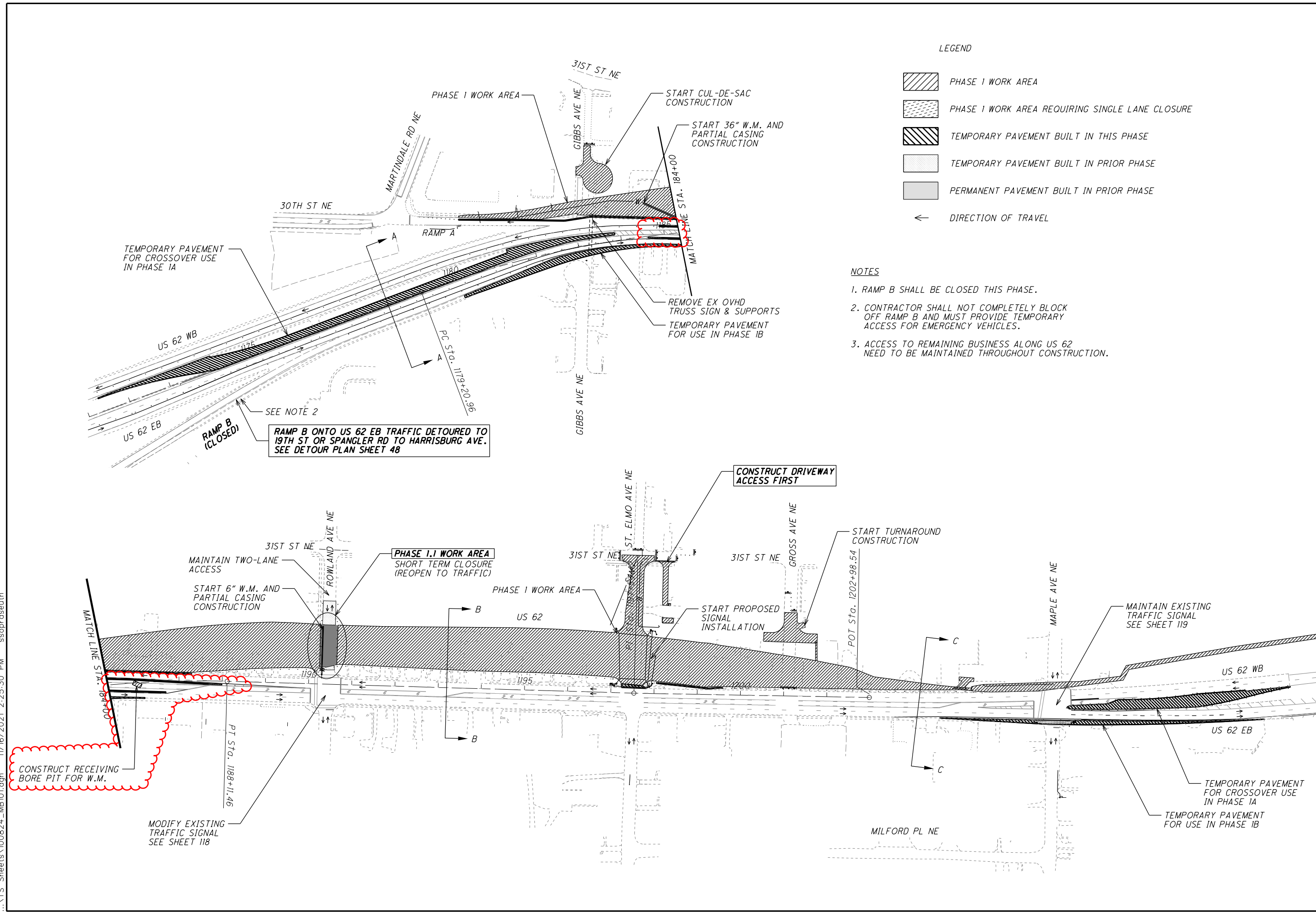
STA - 062 - 24.14

LEGEND

-  PHASE I WORK AREA
-  PHASE I WORK AREA REQUIRING SINGLE LANE CLOSURE
-  TEMPORARY PAVEMENT BUILT IN THIS PHASE
-  TEMPORARY PAVEMENT BUILT IN PRIOR PHASE
-  PERMANENT PAVEMENT BUILT IN PRIOR PHASE
-  DIRECTION OF TRAVEL

NOTES

1. RAMP B SHALL BE CLOSED THIS PHASE.
2. CONTRACTOR SHALL NOT COMPLETELY BLOCK OFF RAMP B AND MUST PROVIDE TEMPORARY ACCESS FOR EMERGENCY VEHICLES.
3. ACCESS TO REMAINING BUSINESS ALONG US 62 NEED TO BE MAINTAINED THROUGHOUT CONSTRUCTION.

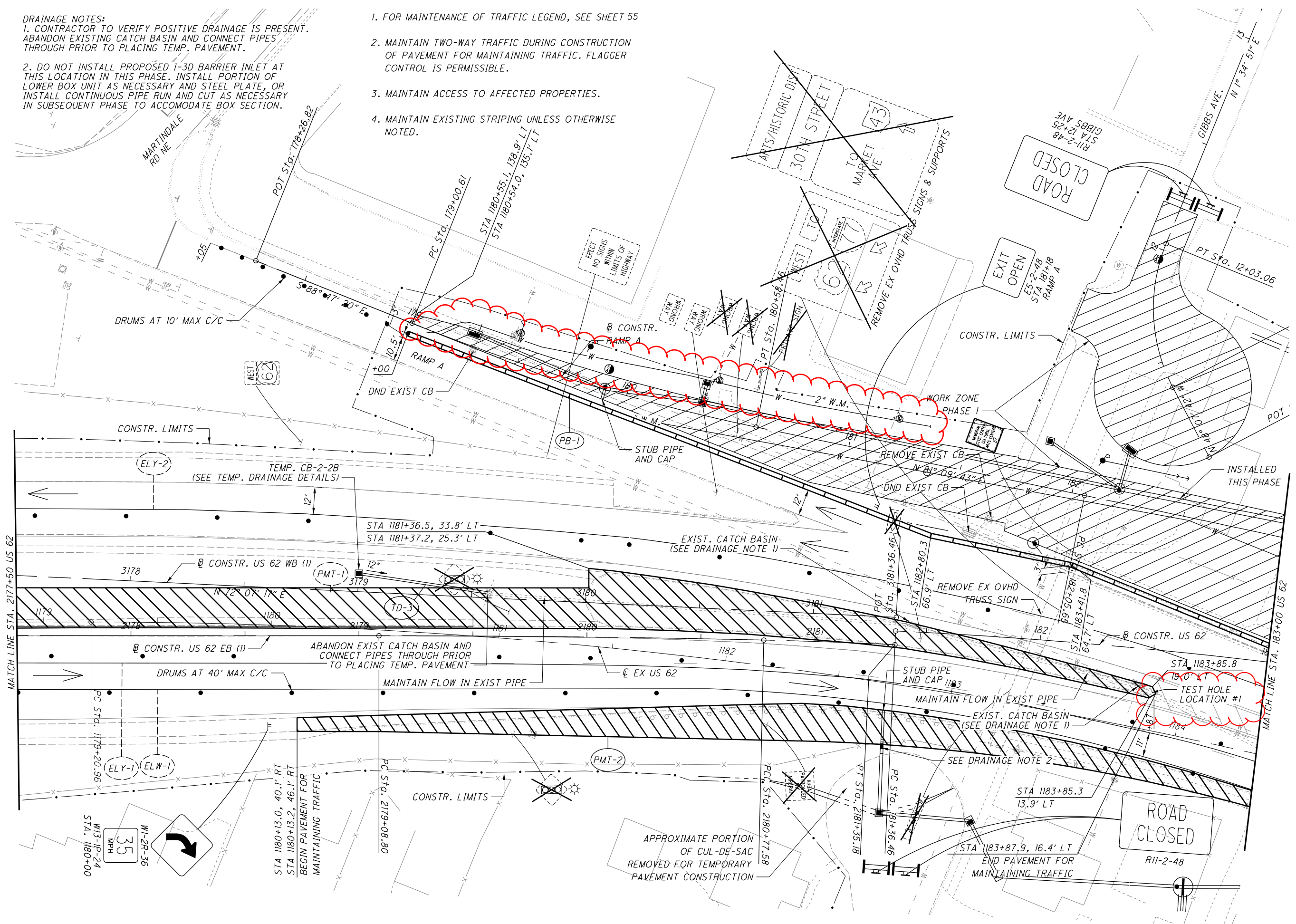


...TS Sheets\100824_MB101.dgn 11/16/2021 2:25:30 PM ssopraseuth

DRAINAGE NOTES:
 1. CONTRACTOR TO VERIFY POSITIVE DRAINAGE IS PRESENT. ABANDON EXISTING CATCH BASIN AND CONNECT PIPES THROUGH PRIOR TO PLACING TEMP. PAVEMENT.
 2. DO NOT INSTALL PROPOSED 1-3D BARRIER INLET AT THIS LOCATION IN THIS PHASE. INSTALL PORTION OF LOWER BOX UNIT AS NECESSARY AND STEEL PLATE, OR INSTALL CONTINUOUS PIPE RUN AND CUT AS NECESSARY IN SUBSEQUENT PHASE TO ACCOMMODATE BOX SECTION.

NOTES:

1. FOR MAINTENANCE OF TRAFFIC LEGEND, SEE SHEET 55
2. MAINTAIN TWO-WAY TRAFFIC DURING CONSTRUCTION OF PAVEMENT FOR MAINTAINING TRAFFIC. FLAGGER CONTROL IS PERMISSIBLE.
3. MAINTAIN ACCESS TO AFFECTED PROPERTIES.
4. MAINTAIN EXISTING STRIPING UNLESS OTHERWISE NOTED.



MAINTENANCE OF TRAFFIC - PHASE 1
STA. 2177+50 TO STA. 183+00

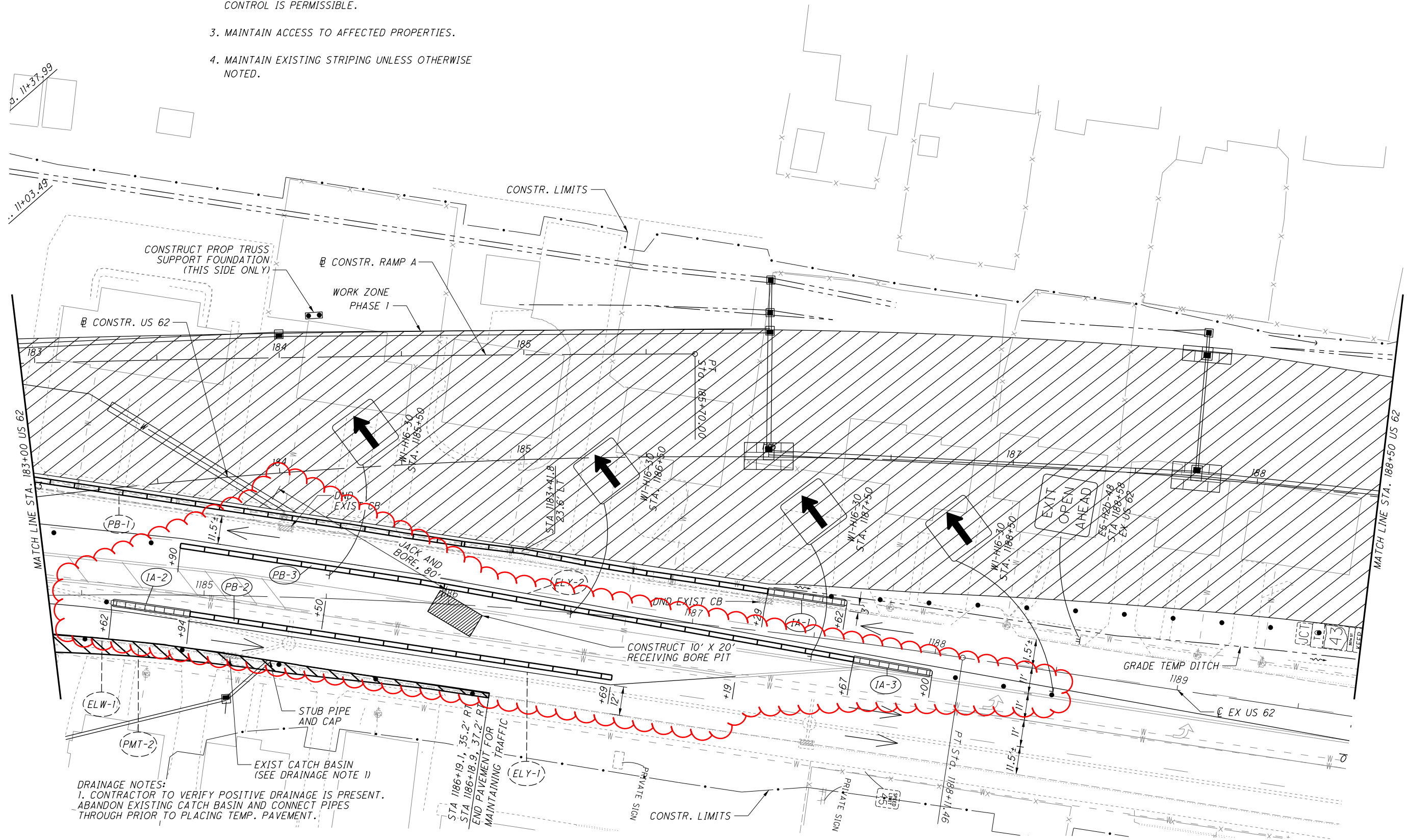
STA-062-24.14

57
500

...TS Sheets\00824MP1003.dgn 11/17/2021 12:12:47 AM ssopraseuth

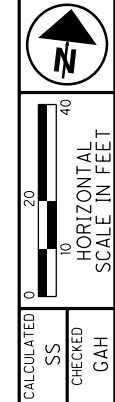
NOTES:

1. FOR MAINTENANCE OF TRAFFIC LEGEND, SEE SHEET 55
2. MAINTAIN TWO-WAY TRAFFIC DURING CONSTRUCTION OF PAVEMENT FOR MAINTAINING TRAFFIC. FLAGGER CONTROL IS PERMISSIBLE.
3. MAINTAIN ACCESS TO AFFECTED PROPERTIES.
4. MAINTAIN EXISTING STRIPING UNLESS OTHERWISE NOTED.



DRAINAGE NOTES:
 1. CONTRACTOR TO VERIFY POSITIVE DRAINAGE IS PRESENT.
 ABANDON EXISTING CATCH BASIN AND CONNECT PIPES
 THROUGH PRIOR TO PLACING TEMP. PAVEMENT.

STA 186+19.1, 35.2' R.R.
 STA 186+18.9, 37.2' R.R.
 END PAVEMENT FOR
 MAINTAINING TRAFFIC



MAINTENANCE OF TRAFFIC - PHASE 1
STA. 183+00 TO STA. 188+50

STA-062-24.14

58
 500

...TS Sheets\00824MP1004.dgn 11/17/2021 12:12:55 AM ssopraseuth

NOTES:

1. FOR MAINTENANCE OF TRAFFIC LEGEND, SEE SHEET 55
2. MAINTAIN TWO-WAY TRAFFIC DURING CONSTRUCTION OF PAVEMENT FOR MAINTAINING TRAFFIC. FLAGGER CONTROL IS PERMISSIBLE.
3. MAINTAIN ACCESS TO AFFECTED PROPERTIES.
4. MAINTAIN EXISTING STRIPING UNLESS OTHERWISE NOTED.
5. FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 118
6. FOR WORK ZONE PHASE 1.1 DETAILS, SEE SHEET 65

7. IF A TEST HOLE CONFIRMS THE WATERLINE IS FOUND TO BE IN CONFLICT WITH THE PROPOSED STORM SEWER, THE CONTRACTOR SHALL CONTACT THE CITY OF CANTON WATER DEPARTMENT. THE CONTRACTOR SHALL GIVE ONE (1) DAYS NOTICE TO THE CITY AND ALLOW THE CITY WATER DEPARTMENT ACCESS TO THE SITE TO PERFORM A LOWERING OF THE EXISTING WATERLINE. ALLOW THREE (3) DAYS FOR THE LOWERING IF NECESSARY.

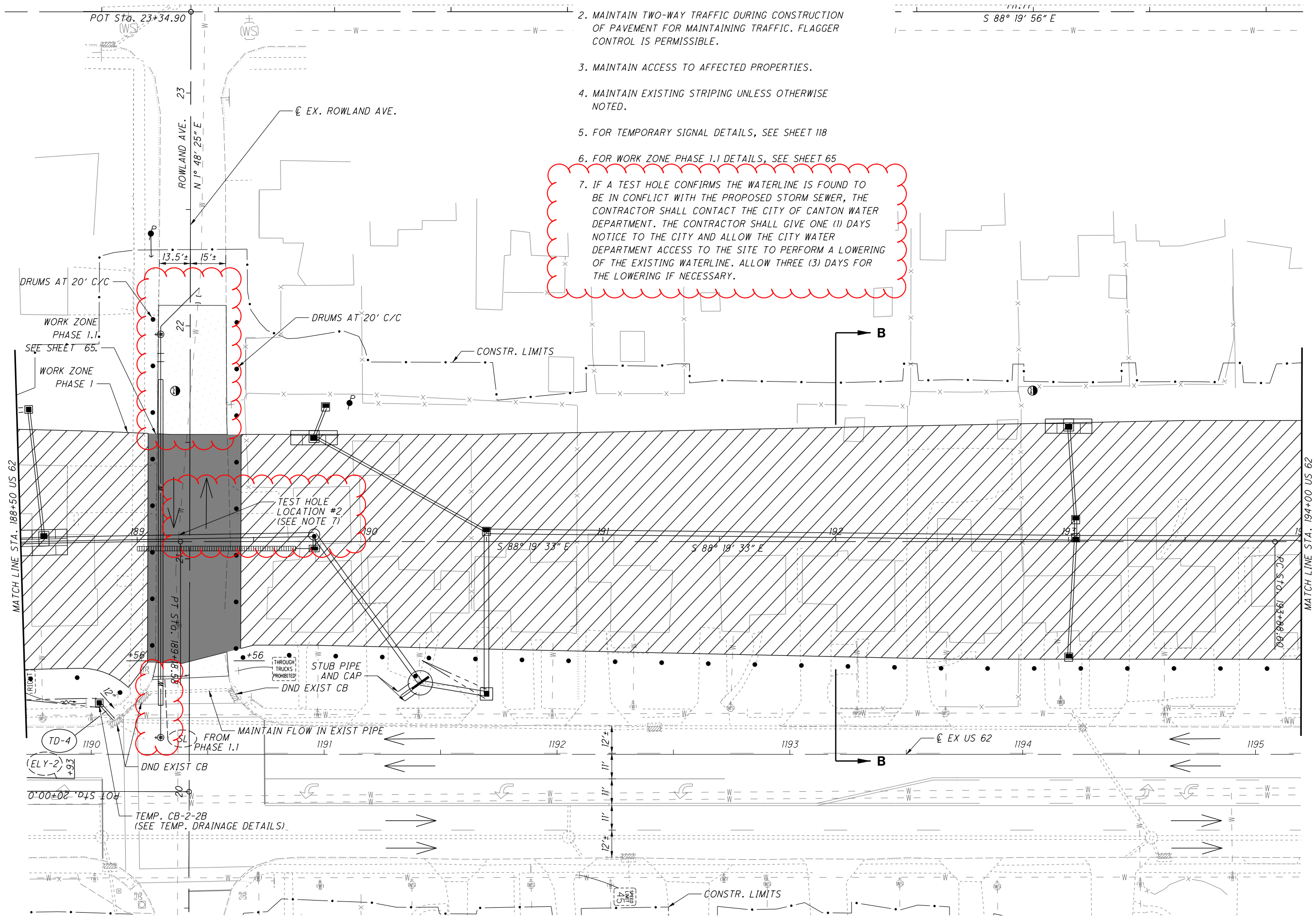


CALCULATED SS CHECKED GAH

0 20 40
HORIZONTAL SCALE IN FEET

MAINTENANCE OF TRAFFIC - PHASE 1
STA. 188+50 TO STA. 194+00

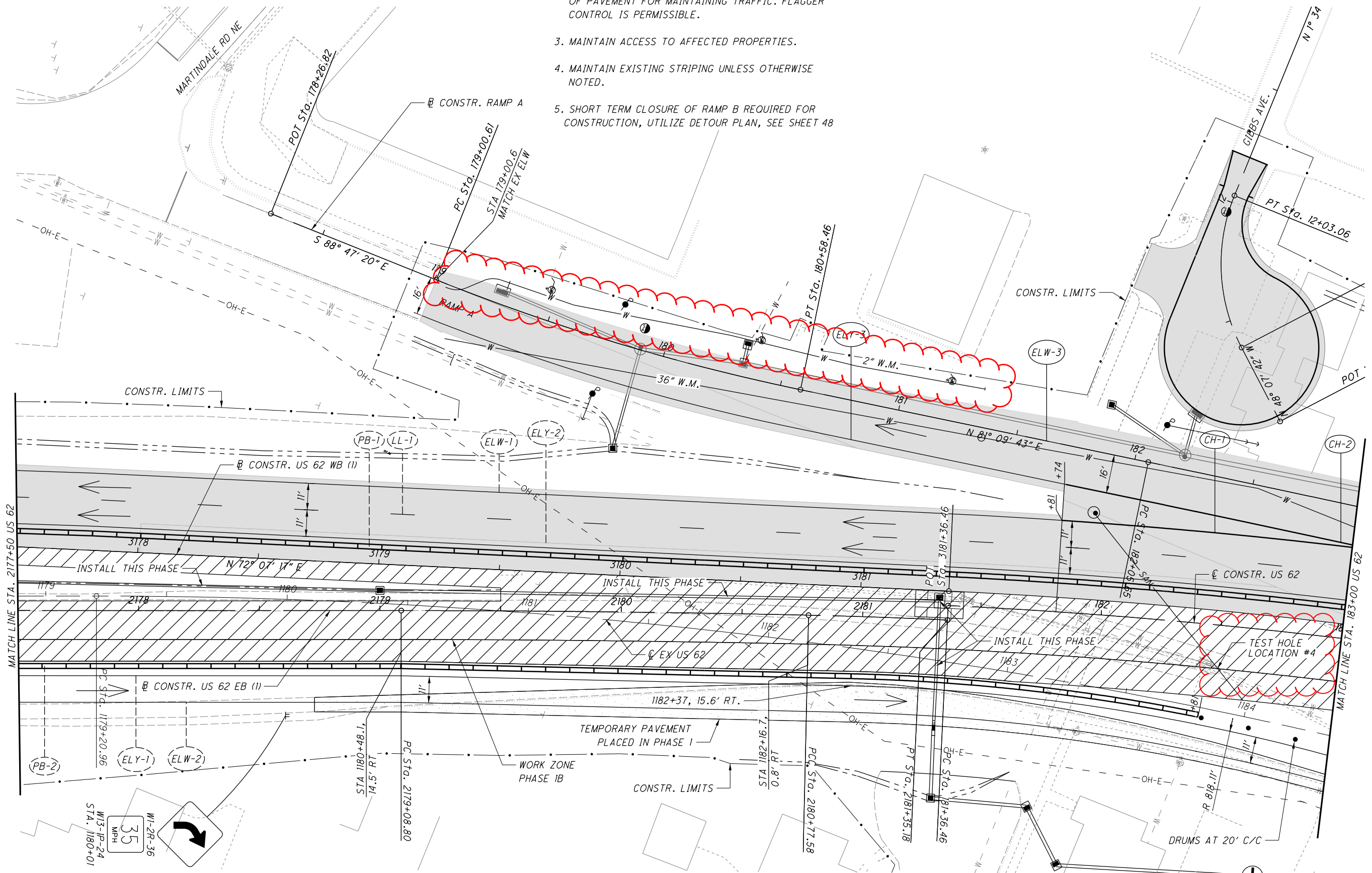
STA-062-24.14



...TSS Sheets 100824MP1005.dgn 11/17/2021 12:13:11 AM ssopraseuth

NOTES:

1. FOR MAINTENANCE OF TRAFFIC LEGEND, SEE SHEET 76
2. MAINTAIN TWO-WAY TRAFFIC DURING CONSTRUCTION OF PAVEMENT FOR MAINTAINING TRAFFIC. FLAGGER CONTROL IS PERMISSIBLE.
3. MAINTAIN ACCESS TO AFFECTED PROPERTIES.
4. MAINTAIN EXISTING STRIPING UNLESS OTHERWISE NOTED.
5. SHORT TERM CLOSURE OF RAMP B REQUIRED FOR CONSTRUCTION, UTILIZE DETOUR PLAN, SEE SHEET 48

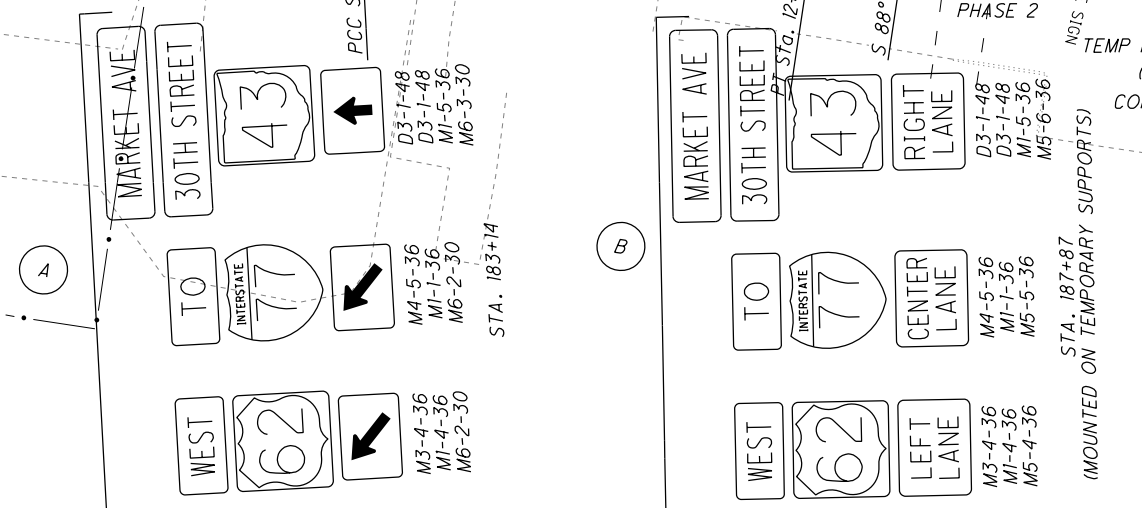
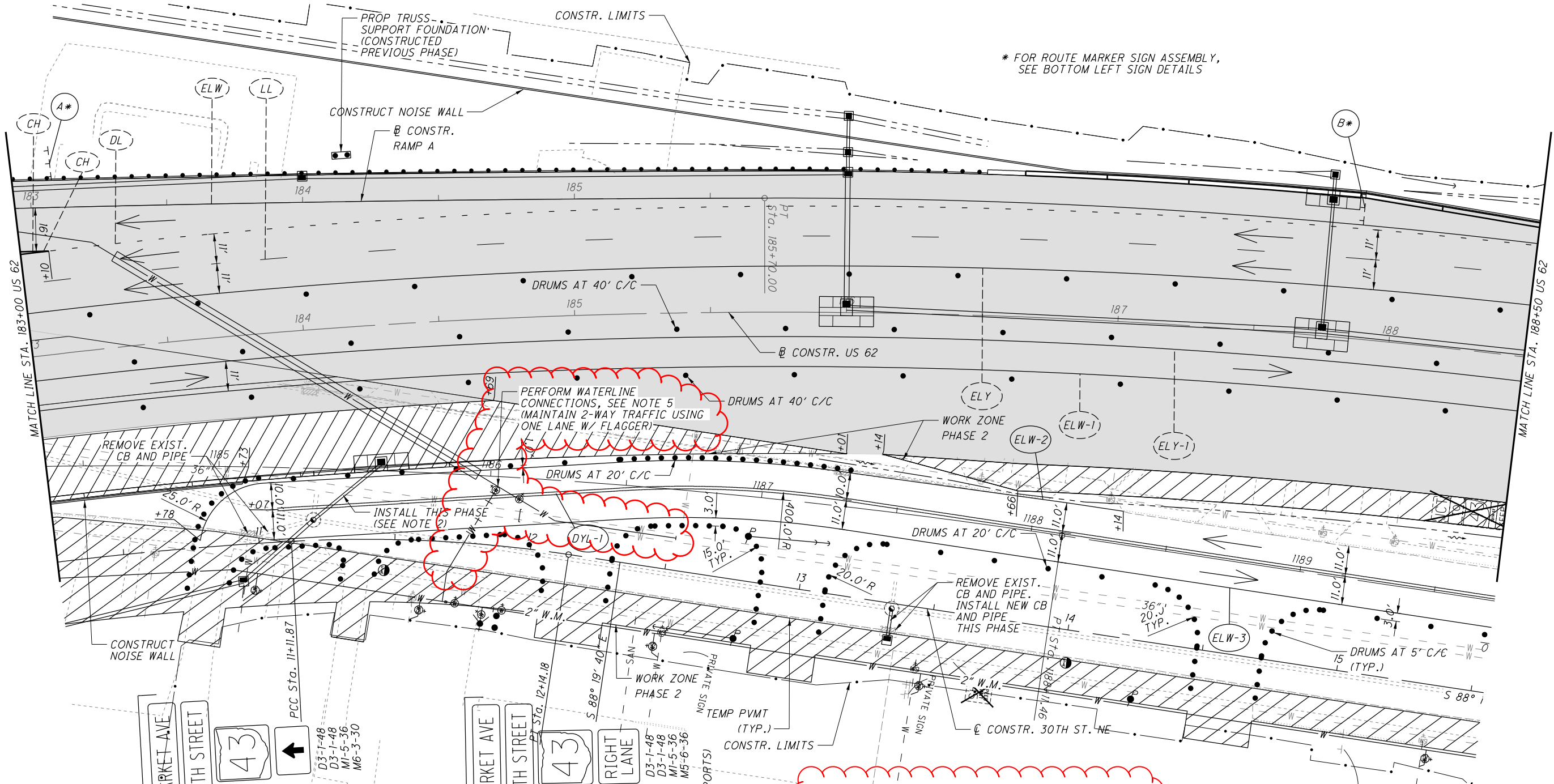


CALCULATED SS CHECKED GAH

0 20 40
HORIZONTAL SCALE IN FEET

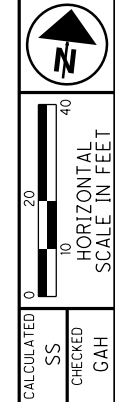
MAINTENANCE OF TRAFFIC - PHASE 1B
STA. 2177+50 TO STA. 183+00

STA-062-24.14



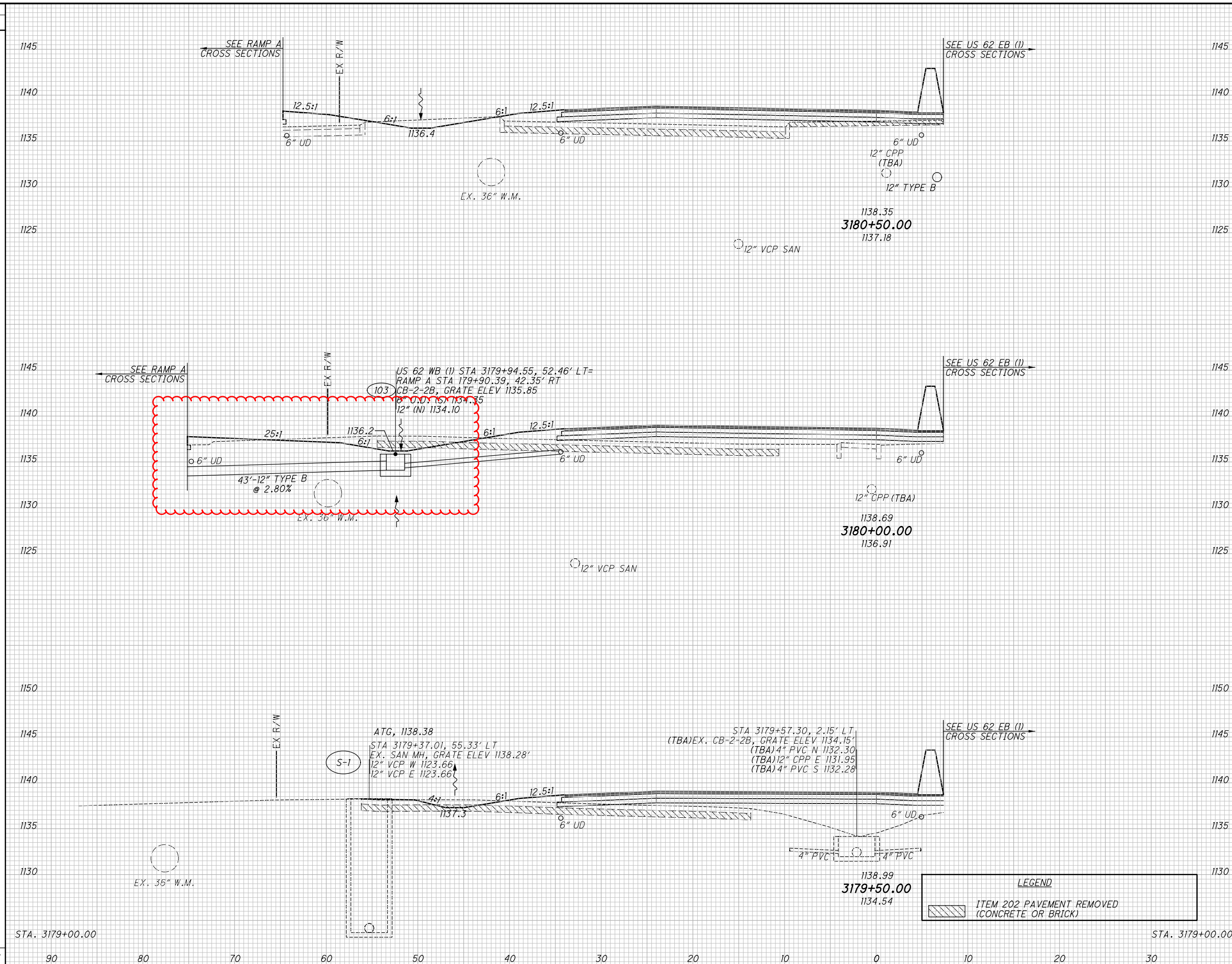
- NOTES:
1. FOR MAINTENANCE OF TRAFFIC LEGEND, SEE SHEET 86
 2. MAINTAIN TWO-WAY TRAFFIC DURING CONSTRUCTION OF PAVEMENT FOR MAINTAINING TRAFFIC. FLAGGER CONTROL IS PERMISSIBLE.
 3. MAINTAIN ACCESS TO AFFECTED PROPERTIES.
 4. MAINTAIN EXISTING STRIPING UNLESS OTHERWISE NOTED.
 5. TO REDUCE THE TIME THE 36" WATER MAIN IS DISCONNECTED, THE CONTRACTOR SHALL HAVE A SECOND CREW PERFORMING THIS TIE-IN THE SAME TIME THE WEST END TIE-IN AT 30TH ST NE/RAMP A EAST OF MARTINDALE RD NE IS BEING PERFORMED.

* FOR ROUTE MARKER SIGN ASSEMBLY, SEE BOTTOM LEFT SIGN DETAILS



MAINTENANCE OF TRAFFIC - PHASE 2
STA. 183+00 TO STA. 188+50

SEEDING
END WIDTH SO. YDS.
29
190
39
166
20
116
21
472



END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
9	88				
	16	149			
8	73				
	8	158			
0	97				
	0	170			
0	86				
	24	477			

CROSS SECTIONS - US 62 WB (1)
STA. 3179+50.00 TO STA. 3180+50.00


STA-062-24.14

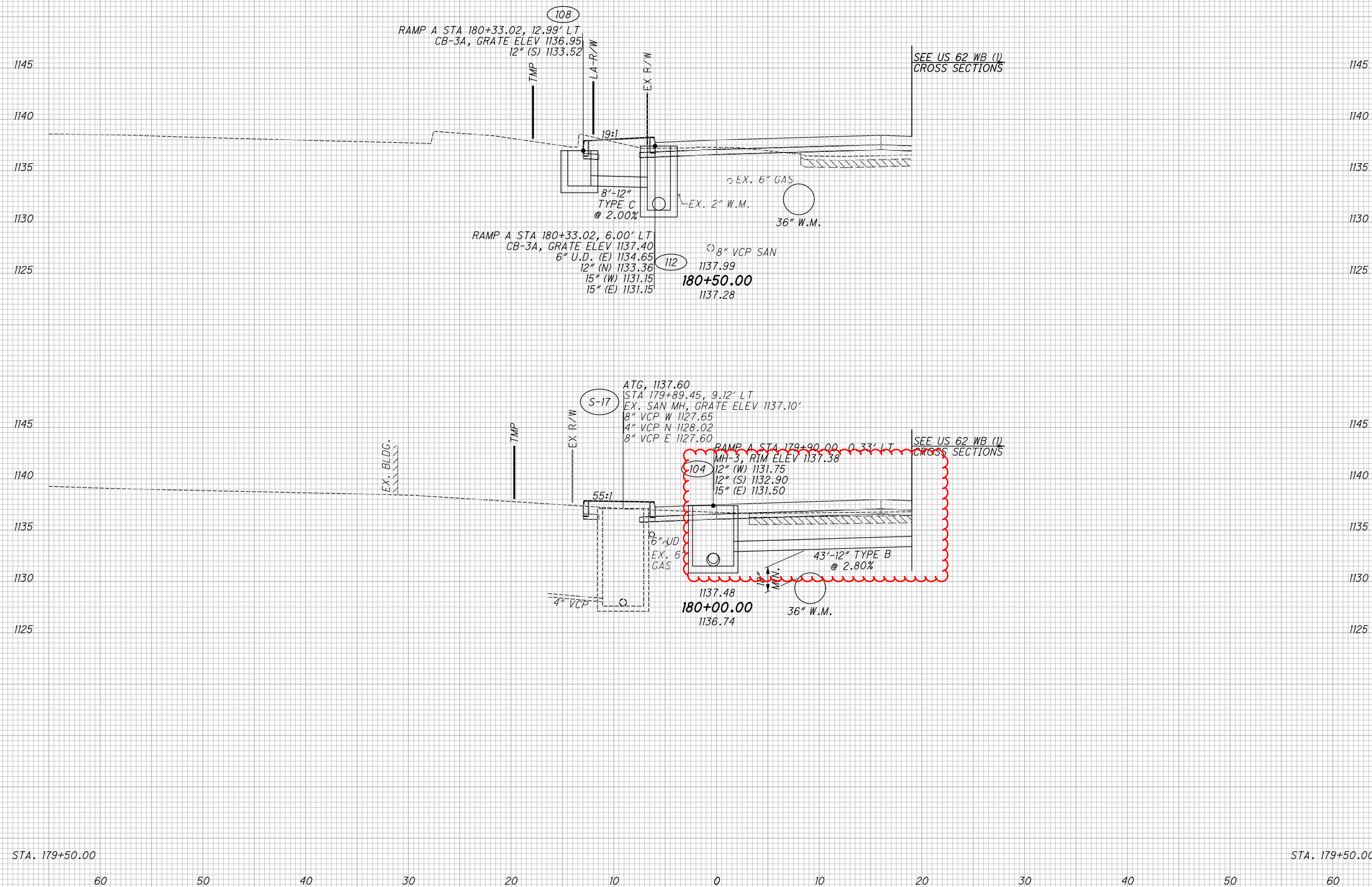
195
500

SEEDING	
END WIDTH	SO. YDS.
6	6
33	33
6	6
75	75
21	21

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MSW	G/AH
12	20	20	33		
10	16	33	17		
25	3	53	50		

LEGEND

 ITEM 202 PAVEMENT REMOVED (CONCRETE OR BRICK)



CROSS SECTIONS - RAMP A
STA. 180+00.00 TO STA. 180+50.00
STA - 062 - 24.14

239
500

VIII WATER MAIN/SERVICES:

1. ALL WATER MAINS, SERVICES AND APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED ACCORDING TO THE CITY OF CANTON WATER DEPARTMENT REQUIREMENTS AND SPECIFICATIONS IN EFFECT AT THE TIME OF CONSTRUCTION.
2. MAINS - WATER MAINS SHALL BE CLASS 52 (6" AND 8"), CLASS 53 (12") OR CLASS 54 (OVER 12") DUCTILE IRON, MEETING AWWA C151. WATER MAINS 6" THROUGH 12" SHALL BE PUSH JOINTS. WATER MAINS LARGER THAN 12" SHALL BE TR-FLEX PIPE, OR AN APPROVED EQUAL RESTRAINED PUSH-ON JOINT PIPE. THE OUTSIDE SURFACE OF ALL DUCTILE IRON PIPE, FITTINGS AND APPURTENANCES SHALL BE SHOP COATED WITH EITHER ASPHALTIC MATERIAL. IF THE COATING MATERIAL IS FOUND TO BE DAMAGED PRIOR TO THE PIPE TRENCH BEING BACKFILLED, THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL APPROVED MATERIAL AS REQUIRED TO REPAIR AS DIRECTED. THE CONTRACTOR SHALL HAVE SUFFICIENT COATING MATERIALS AVAILABLE AT THE JOB SITE PRIOR TO LAYING THE PIPE. THE INTERIOR OF ALL PIPES AND FITTINGS SHALL BE LINED WITH CEMENT MORTAR AND SEAL COATED IN COMPLETE CONFORMANCE WITH AWWA C104, OR THE LATEST REVISION.
3. ALL DUCTILE IRON PIPE, INCLUDING FITTINGS, BENDS, TEES, VALVES AND APPURTENANCES BURIED UNDERGROUND, SHALL BE ENCASED WITH 8 MIL. POLYETHYLENE FILM CONFORMING TO AWWA C105.
4. WHEN PLASTIC PIPE IS USED, A TRACER WIRE SHALL BE INSTALLED ON TOP OF THE PIPE.
 - A. THE TRACER WIRE SHALL BE #14 AWG COPPER CLAD STEEL WIRE WITH 30 MILS OF HIGH-DENSITY POLYETHYLENE (HDPE) INSULATION.
 - B. THE TRACER WIRE SHALL BE INSTALLED IN A CONTINUOUS FASHION WITH THE WIRE ON TOP OF THE WATER MAIN AND SECURE TO THE MAIN EVERY FIVE (5) FEET WITH TAPE.
 - C. THE TRACER WIRE SHALL BE BROUGHT TO THE SURFACE AT EVERY VALVE BOX AND/OR AS CALLED OUT IN THE DRAWINGS. TRACER WIRE SHALL BE BROUGHT TO THE SURFACE AT LEAST EVERY ONE THOUSAND (1,000) FEET.
 - D. IF THE WIRE COATING GETS DAMAGED, REPAIR DAMAGED COATING WITH ELECTRICAL TAPE.
 - E. THE TRACER WIRE SHALL PASS A CONTINUITY TEST BEFORE THE WATERLINE INSTALLATION IS ACCEPTED.
5. THE MINIMUM COVER OVER WATER MAINS SHALL BE 4'-6" FROM GROUND SURFACE TO THE BARREL OF THE PIPE.
6. PIPE LENGTHS MAY BE DEFLECTED AT THE JOINT, IF REQUIRED, AT ONE-HALF THE DEGREE RECOMMENDED BY THE MANUFACTURER.
7. FITTINGS SHALL BE DUCTILE IRON AND BE RATED FOR 250 PSI WORKING PRESSURE IN ACCORDANCE WITH AWWA C110 OR AWWA C153. FITTINGS SHALL INCLUDE, BUT NOT LIMITED TO BENDS, TEES, SLEEVES, COUPLINGS, CROSSES, REDUCERS AND CAPS.
ALL FITTINGS LARGER THAN 12" SHALL BE TR-FLEX FITTINGS, OR AN APPROVED EQUAL RESTRAINED FITTINGS.
8. BUTTERFLY VALVES - BUTTERFLY VALVES SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C504, CLASS 150B AND CONFORM TO NSF STANDARD 61.
 - A. THE VALVE BODY SHALL BE CONSTRUCTED OF ASTM A126, CLASS B CAST WITH MECHANICAL JOINT END CONNECTIONS (WITH ACCESSORIES).
 - B. THE VALVE SEAT (UP TO 20") SHALL BE A RUBBER BODY SEATS WITH ONE PIECE CONSTRUCTION, SIMULTANEOUSLY MOLDED AND BONDED INTO A RECESSED CAVITY IN THE VALVE BODY. SEATS MAY NOT BE LOCATED ON THE DISC OR BE RETAINED BY SEGMENTS AND/OR SCREWS. THE VALVE SEAT (GREATER THAN 20") SHALL BE CONSTRUCTED OF BUNA-N RUBBER AND SUITABLE FOR BIDIRECTIONAL SHUTOFF AT RATED PRESSURE. SEATS SHALL BE RETAINED IN THE VALVE BODY BY MECHANICAL MEANS WITHOUT RETAINING RINGS, SEGMENTS, SCREWS OR HARDWARE OF ANY KIND IN THE FLOW STREAM. SEATS SHALL BE A FULL 360 DEGREES CIRCUMFERENCE AND REPLACEABLE WITHOUT DISMANTLING ACTUATOR, DISC OR SHAFT AND WITHOUT REMOVING VALVE FROM THE LINE.
 - C. THE VALVE BEARINGS SHALL BE OF A SELF-LUBRICATING, NONMETALLIC MATERIAL.
 - D. THE VALVE DISC UP TO 24" SHALL BE A LENS-SHAPED DESIGN AND 30" AND LARGER SHALL BE A FLOW-THROUGH DESIGN. THE VALVE DISC MATERIAL SHALL BE:
 - 8"-20" - ASTM A126, CLASS B CAST IRON DISC WITH A STAINLESS STEEL TYPE 316 EDGE
 - 24" AND LARGER - ASTM A536 (65-45-12) DUCTILE IRON DISC WITH A STAINLESS STEEL TYPE 316 EDGE
 DISCS SHALL BE RETAINED BY STAINLESS STEEL PINS WHICH EXTEND THROUGH THE FULL DIAMETER OF THE SHAFT. DISC STOPS LOCATED IN THE FLOW STREAM ARE NOT ALLOWED.
 - E. THE VALVE SHAFTS SHALL BE OF STAINLESS STEEL TYPE 304. FOR 24" AND LARGER, SHAFTS SHALL BE TWO-PIECE, STUB-TYPE AND KEYED FOR ACTUATOR CONNECTION. SHAFT SEALS SHALL BE OF A DESIGN ALLOWING REPLACEMENT WITHOUT REMOVING THE VALVE SHAFT.
 - F. THE VALVE SHALL BE FURNISHED WITH A TWO (2) INCH SQUARE SERVICE NUT ACTUATOR THAT OPENS RIGHT.
 - G. THE VALVE SHALL BE COATED WITH AN NSF61 APPROVED 2-PART LIQUID EPOXY, WITH A MINIMUM DRY FILM THICKNESS OF 8 MILS.
9. ANY FITTINGS OR VALVES ADJACENT TO A TEE OR CROSS SHALL BE ANCHORED TO THE TEE OR CROSS WITH EITHER THE USE OF AN ANCHOR TEE OR ANCHOR CROSS AND/OR ANCHOR COUPLINGS.
10. GATE VALVES - THE ITEMS COVERED BY THIS SPECIFICATION SHALL MEET ALL APPLICABLE AWWA C509 OR C515 STANDARDS AND THE FOLLOWING: ALL VALVES SHALL BE NON-RISING STEM, IRON BODY, RESILIENT WEDGE DISC. THE DESIGN OF THE THRUST COLLAR SHALL BE SUCH THAT THE THRUST COLLAR IS SEALED FROM LINE PRESSURE BY MEANS OF AN "O" RING SEAL. ALL VALVES SHALL BE

- FURNISHED WITH A TWO (2) INCH SQUARE OPERATING NUT, OPEN RIGHT. ALL VALVES SHALL BE FURNISHED WITH MECHANICAL JOINT END CONNECTIONS. THE STEM SHALL BE PROTECTED FROM EXTERNAL GRIT BY A WEATHER SHIELD AND AN UPPER "O" RING. STEM SHALL BE LUBRICATED. GATE COATING SHALL HAVE A MINIMUM THICKNESS OF 10 MILS. VALVE SHALL BE TESTED AT THE RATED WORKING PRESSURE OF 250 PSI WITH NO LEAKAGE. SHELL TEST OF 500 PSI SHALL BE APPLIED TO BODY WITH VALVE IN THE OPEN POSITION WITH NO LEAKAGE THROUGH THE METAL, STEM SEALS OR JOINTS. VALVE MUST HAVE TRADITIONAL STUFFING BOX. ALL BOLTING MATERIAL IN THE THRUST COLLAR AND BONNET SHALL BE #316 SS BOLTS. ALL VALVES WITH ACCESSORIES PACK (FLANGES, RUBBERS, NUTS, BOLTS)
11. ALL VALVE BOXES SHALL BE HEAVY DUTY, THREE (3) PIECE SCREW TYPE, WITH "WATER" LIDS.
 12. FLUSHING AND DISINFECTION OF WATER MAINS SHALL BE IN ACCORDANCE WITH AWWA C651.
 13. ALL WATER LINE PRESSURE TESTING SHALL CONFORM TO AWWA C600.
 14. WATER MAINS SHALL BE INSTALLED AND BACKFILLED PER O.D.O.T. ITEM 638.
 15. WATER LINES LOCATED WITHIN THE LIMITS OF OR WITHIN A 1/2 TO 1 SLOPE OF EXISTING AND/OR PROPOSED ROADWAYS, PARKING AREAS, BUILDINGS, SIDEWALKS, AND/OR DRIVES SHALL BE INSTALLED AS TYPE B CONDUITS. ALL OTHER WATER MAINS SHALL BE INSTALLED AS TYPE C CONDUITS. BEDDING SHALL BE AS SPECIFIED, EXCEPT THAT SLAG WILL NOT BE PERMITTED.
 16. ALL BENDS, FITTINGS, TEES, VALVES, DEAD ENDS, ETC. SHALL BE SECURED EQUAL. POURED-IN-PLACE CONCRETE THRUST BLOCKS SHALL ALSO BE PROVIDED AT/FOR EACH BENDS, FITTING, TEE, DEAD END, ETC. THIS BLOCKING SHALL BE CAREFULLY PLACED TO ENSURE IT IS POSITIONED PROPERLY TO WITHSTAND THE RESULTANT FORCES AT EACH BEND, FITTING, ETC. AND SHALL BEAR ON STABLE UNDISTURBED GROUND CAPABLE OF WITHSTANDING THE POTENTIAL LOADING. WHEN DIRECTED BY THE CITY, TIE RODS ARE TO BE 3/4 INCH DIAMETER. TWO TIE RODS ARE REQUIRED FOR AN 8 INCH PIPE, AND FOUR TIE RODS ARE REQUIRED FOR 12 INCH PIPE.
 17. IN ADDITION TO THE RESTRAINT OF ALL BENDS, FITTINGS, TEES, VALVES, DEAD ENDS, ETC. THE CONTRACTOR SHALL ALSO SECURE/RESTRAIN ALL JOINTS FOR AT LEAST THREE (3) PIPE JOINTS (50 LF MIN.) BEYOND EACH DEAD END, BEND, FITTING, VALVE, TEE, ETC. UTILIZING MEGALUGS, FIELD LOK GASKETS, OR APPROVED EQUALS.
 18. THE CONTRACTOR SHALL PROVIDE 18" VERTICAL CLEARANCE BETWEEN PROPOSED WATERLINES AND ANY SANITARY OR STORM SEWERS. WHEN 18" CLEARANCE CANNOT BE OBTAINED:
 - FOR STORM SEWERS, CONCRETE ENCASE THE STORM SEWER PIPE, 6 FT. ON EACH SIDE OF WATER MAIN.
 - FOR SANITARY SEWERS, REPLACE THE SANITARY SEWER PIPE WITH PVC C900 PIPE, 10 FT. ON EACH SIDE OF THE WATER MAIN. APPROVED COUPLINGS SHALL BE USED TO TIE ONTO THE EXISTING SEWER.
 THE CONTRACTOR SHALL MAINTAIN TEN (10) FOOT HORIZONTAL CLEARANCE BETWEEN WATERLINES/SERVICES AND SANITARY OR STORM SEWERS.
 19. HYDRANTS - THE FIRE HYDRANT SETTING SHALL INCLUDE THE HYDRANT, ANCHOR TEE, VALVE, VALVE BOX, 6 INCH DUCTILE IRON (CLASS 52) PIPING AND ALL FITTINGS NEEDED FOR PROPER INSTALLATION TO FINAL GRADE. FIRE HYDRANTS SHALL BE MUELLER A423 MEETING THE CITY OF CANTON WATER DEPARTMENT STANDARDS AND REQUIREMENTS. ALL COSTS FOR THE 6" PIPING ASSOCIATED WITH THE INSTALLATION OF FIRE HYDRANTS SHALL BE INCLUDED WITH THE FIRE HYDRANT PAY ITEM. ALL HYDRANTS SHALL BE INSTALLED WITH THE PUMPER NOZZLE FACING THE STREET. ALL FIRE HYDRANT THREADS SHALL BE LUBRICATED WITH A FOOD GRADE LUBRICANT AND OPERATED UPON INSTALLATION.
 20. CUT-IN SLEEVES FOR TIE-IN TO EXISTING WATER MAINS 6" THROUGH 12" SHALL BE SMITH BLAIR 441 SLEEVES WITH #316 SS BOLTS.
CUT-IN SLEEVES FOR TIE-IN TO EXISTING WATER MAINS LARGER THAN 12" SHALL BE HYMAX LARGE DIAMETER, LONG BODY, COUPLINGS WITH EPDM GASKETS, #316 SS BOLTS.
 21. ALL WATER TAPS AND SERVICES MUST BE INSTALLED BEFORE ANY PAVEMENT FOR THE PROPOSED ROADWAY HAS BEEN PLACED. THE CONTRACTOR SHALL MAKE ALL SERVICE TAPS ON THE WATER MAIN.
 22. PRIOR TO MAKING THE TAP, THE CONTRACTOR SHALL EXPOSE THE EXISTING CURB BOX AND VERIFY THE SIZE OF THE WATER SERVICE LINE ON THE OWNER'S SIDE. THE PROPOSED TAP AND SERVICE SHALL MATCH THE SIZE OF THE OWNER'S SERVICE LINE, WITH 1" BEING A MINIMUM. AN EXISTING 3/4" SERVICE SHALL BE REPLACED WITH A 1" SERVICE AND TAP AND A 1/4" SERVICE SHALL BE REPLACED WITH A 1/2" SERVICE AND TAP.
 23. THE PROPOSED WATER SERVICES AND TAPS SHALL BE 1" UNLESS NOTED OTHERWISE ON THE PLANS OR DETERMINED OTHERWISE PER PREVIOUS NOTE.
 24. ANY SERVICE TO THE FAR SIDE OF THE STREET SHALL BE PUSHED OR BORED UNDER THE PAVEMENT. TRENCHING ACROSS THE ROAD IS NOT PERMITTED.
 25. THE CONTRACTOR SHALL TAKE ANY AND ALL NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN IN SERVICE, ANY EXISTING WATER MAINS AND/OR SERVICES EXPOSED DURING CONSTRUCTION. IF THE CONTRACTOR BREAKS A WATER MAIN AND/OR SERVICE, HE SHALL BE RESPONSIBLE TO REPAIR THE BREAK, AT HIS OWN EXPENSE, AND WILL NOT BE COMPENSATED FOR ANY DOWNTIME.
 26. ANY WATER SERVICE LINE THAT IS BROKEN, CUT OR OTHERWISE DAMAGED, SHALL BE REPLACED FROM THE CORPORATION STOP TO THE CURB STOP WITH A SINGLE PIECE OF HDPE TUBING, CTS, PE4710. NO SPLICING OF THE SERVICE LINE WILL BE PERMITTED.

27. SERVICE BRANCHES WILL BE INSTALLED AS PER O.D.O.T ITEM 638.16, WITH THE FOLLOWING EXCEPTIONS:
 1. WHEN A SERVICE BRANCH IS DISTURBED FOR LOWERING, RAISING, EXTENDING OR SHORTENING ON THE PROPERTY SIDE ON THE SERVICE STOP, IT SHALL BE REPLACED WITH NEW MATERIALS FROM THE CORPORATION STOP TO THE SERVICE STOP.
28. POLYETHYLENE WATER MAIN AND SERVICE TUBING 2" AND UNDER SHALL BE COPPER TUBE SIZE, SDR 9, WITH A MINIMUM PRESSURE CLASS OF 200 PSI AND MEET STANDARDS ASTM-D2737 PE4710 AND AWWA C901. THE ACCEPTABLE TUBING IS CP CHEM PERFORMANCE PIPE DRISCOPEX 5100-ULTRA-LINE, CHARTER PLASTICS INC. BLUE ICE, ENDOT ENDOPURE AND ADS POLYFLEX.
29. THE PROPOSED FACILITIES SHALL MAINTAIN A MINIMUM 35 PSI PRESSURE DELIVERED TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
30. A MINIMUM PRESSURE OF 20 PSI AT GROUND LEVEL SHALL BE MAINTAINED AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW.
31. WHEN AN EXISTING WATER MAIN MUST BE SHUT DOWN TO PERFORM REQUIRED WORK, THE CONTRACTOR SHALL NOTIFY THE PROPERTIES TO BE AFFECTED A MINIMUM OF 24 HOURS IN ADVANCE OF SAID SHUT DOWN. THE WORK WILL BE SCHEDULED AND COORDINATED TO MINIMIZE THE TIME THE MAIN IS OUT OF SERVICE.
32. THE CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS IN ADVANCE OF ANY SHUT DOWN OF AN EXISTING MAIN. THE CONTRACTOR WILL NOT OPERATE ANY VALVES. VALVES DAMAGED BY THE CONTRACTOR'S OPERATION WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
CITY OF CANTON WATER (CWD)
2664 HARRISBURG AVENUE NE
CANTON, OHIO 44704
BRENT BURRIER
OFFICE 330-438-6569
33. ALL VALVE BOXES WILL BE ADJUSTED TO FINAL GRADE OF SURROUNDING PAVEMENT OR FINISHED SURFACE TREATMENTS WHEN THE PROJECT IS COMPLETED.
34. ANY DIGGING WITHIN THE RIGHT-OF-WAY OF ANY STREET REQUIRES A ROAD OPENING PERMIT. PLEASE CONTACT THE APPROPRIATE GOVERNMENTAL ENTITY FOR INFORMATION REGARDING THE PERMITTING PROCESS AND/OR FEES DUE.
35. THE CONTRACTOR SHALL REPLACE ANY TRAFFIC SIGNAL LOOP DETECTOR WIRE DAMAGED DURING THE WATERLINE INSTALLATION. THIS COST SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ALL ITEMS IN THE PROPOSAL.
36. THE CONTRACTOR SHALL REPLACE ANY ROADWAY PAVEMENT MARKINGS DAMAGED OR REMOVED DURING THIS PROJECT. THE PAVEMENT MARKINGS SHALL BE PER THE GOVERNING AUTHORITY'S SPECIFICATIONS. THIS COST SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ALL ITEMS IN THE PROPOSAL.
37. THE CONTRACTOR SHALL REPLACE ANY PRIVATE IRRIGATION SYSTEMS AND/OR UNDERGROUND ELECTRIC FENCES THAT ARE DAMAGED OR REMOVED DURING THE WATERLINE CONSTRUCTION. THIS COST SHALL BE INCLUDED IN THE UNIT PRICES BID FOR ALL ITEMS IN THE PROPOSAL.
38. VALVES THAT ARE CALLED OUT TO BE ABANDONED SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO ABANDON EXISTING WATER VALVES. THIS ITEM SHALL ALSO INCLUDE ANY NECESSARY EXCAVATION AND BACKFILL REQUIRED. VALVES SHALL BE CLOSED AND HAVE THE TOP 6" OF THE CASTING REMOVED. VALVES IN PAVEMENT SHALL BE FILLED WITH CONCRETE WITH THE TOP 6" MATCHING THE EXISTING PAVEMENT COMPOSITION. VALVES IN YARD AREA SHALL BE FILLED WITH SAND.
39. FIRE HYDRANTS THAT ARE CALLED OUT TO BE REMOVED SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO REMOVE THE FIRE HYDRANT, HYDRANT VALVE AND PLUG THE HYDRANT TEE.
40. FOR WATERLINES CALLED OUT TO BE ABANDONED, THE CONTRACTOR SHALL PLUG AND ABANDON THE EXISTING WATERLINE WITH A DUCTILE IRON PLUG OR AS DIRECTED BY THE CANTON WATER DEPARTMENT.
41. REMOVAL OF ANY EXISTING THRUST BLOCKS WILL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT COST.
42. ITEM 632 TEST HOLE PERFORMED - THIS QUANTITY SHALL BE TO PERFORM TEST HOLES NOTED ON MAINTENANCE OF TRAFFIC SHEETS 57, 59, 68 & 78. THERE ARE 4 TEST HOLES DIRECTLY NOTED ON THE PLANS AND ONE (1) TEST HOLE HAS BEEN INCLUDED AS A CONTINGENCY. ITEM 632 TEST HOLE PERFORMED = 5 EACH

REVISIONS/COMMENTS:

1. ANY REFERENCE TO "THE CITY ENGINEER" WITHIN THE GENERAL NOTES SHALL MEAN THE CANTON WATER DEPARTMENT SUPERINTENDENT.

2. NOT APPLICABLE TO THIS PROJECT

3. REFER TO SECTION VIII. WATER MAIN/SERVICES

...:\Roadway\Sheets\00824UN001_11\16_2021\11:51:31 PM ghmassie

WATERLINE RELOCATION - SEQUENCE OF TYING INTO EXISTING:

DUE TO THE CRITICALITY OF THE 36" WATER LINE AND THE LIMITED FEEDS INTO THE NEIGHBORHOODS TO THE NORTH AND SOUTH OF THIS PROJECT, THE CONTRACTOR SHALL FOLLOW THE TIE-IN SEQUENCE LISTED BELOW. THIS TIE-IN SEQUENCE SHALL BE FOLLOWED UNLESS AN ALTERNATIVE IS APPROVED, IN WRITING, BY THE CANTON WATER DEPARTMENT.

AT THE BEGINNING OF THE PROJECT, THE CONTRACTOR SHALL EXPOSE THE 36" WATER MAIN AT THE LOCATION OF EACH PROPOSED 36" SLEEVE IN ORDER TO ACQUIRE THE DEPTH AND OUTER DIAMETER (O.D.) OF THE PIPE. THE O.D. OF THE PIPE WILL BE REQUIRED WHEN ORDERING THE SLEEVE. THE CONTRACTOR SHALL ASSUME AT LEAST A 12 WEEK LEAD TIME FOR THE SLEEVES.

WHEN TYING INTO THE EXISTING 36" WATER MAIN, THE CONCRETE THRUST BLOCK SHALL BE IN PLACE AND THE PROPOSED 45 FT OF MAIN, THAT IS IN-LINE WITH THE EXISTING, SHALL BE BACKFILLED AND COMPACTED PRIOR TO FILLING AND TURNING THE 36" WATER MAIN BACK INTO SERVICE.

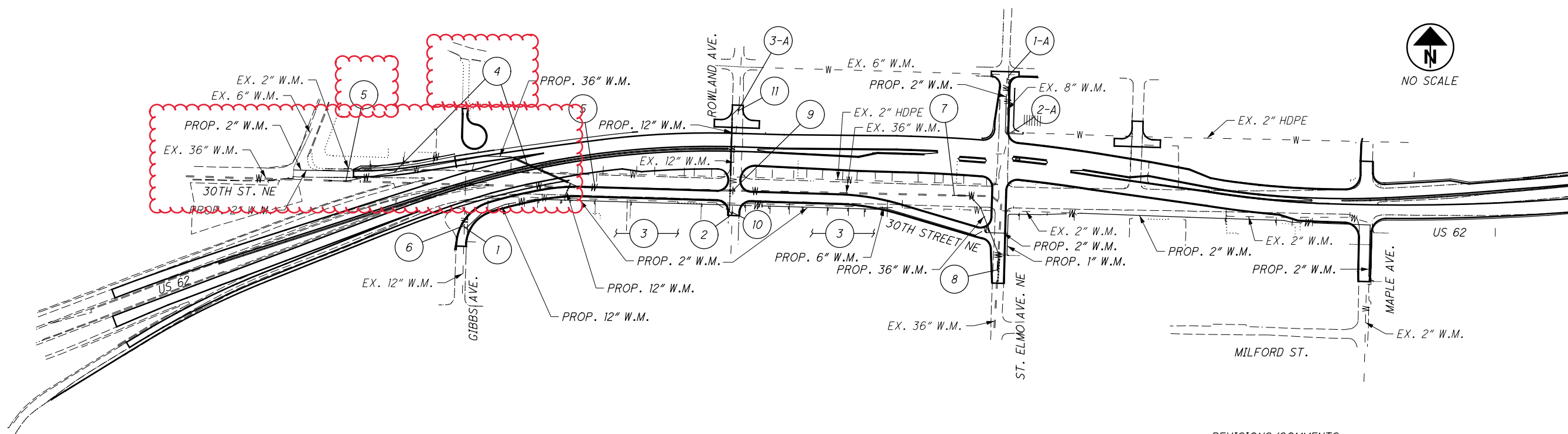
- 1.) TIE INTO THE 12" WATER MAIN ON GIBBS AVE:
 - A. THE CONTRACTOR SHALL TEMPORARILY SHUT DOWN THE EXISTING 12" WATER MAIN, INSTALL THE 12"x12" TEE INTO THE EXISTING 12" MAIN, INSTALL THE 12" GATE VALVE, CLOSE THE VALVE AND RESTORE WATER TO THE EXISTING MAIN. THE CONTRACTOR SHALL THEN PROGRESS WITH THE CONSTRUCTION OF THE PROPOSED 12", 36" AND 2" WATER MAIN.
- 2.) TIE INTO THE 12" WATER MAIN ON ROWLAND AVE, SOUTH OF RT 62:
 - A. THE CONTRACTOR SHALL TEMPORARILY SHUT DOWN THE EXISTING 12" WATER MAIN, INSTALL THE 12"x6" WYE INTO THE EXISTING 12" MAIN, INSTALL THE 6" GATE VALVE, CLOSE THE VALVE AND RESTORE WATER TO THE EXISTING MAIN. THE CONTRACTOR SHALL THEN PROGRESS WITH THE CONSTRUCTION OF THE PROPOSED 6" AND 2" WATER MAIN.
 - B. DO NOT TIE THE 6" WATER MAIN INTO THE 36" MAIN AT THIS TIME.
- 3.) TIE SERVICES INTO THE PROPOSED 12" AND 2" WATER MAIN:
 - A. UPON APPROVAL FROM THE WATER DEPARTMENT, THE CONTRACTOR SHALL CONNECT THE EXISTING SERVICES TO THE PROPOSED 12" AND 2" WATER MAIN.
- 4.) START 36" WATER MAIN AND PARTIAL CASING CONSTRUCTION SUGGESTED IN THE MAINTENANCE OF TRAFFIC PHASE 1 WORKING AREA TO APPROXIMATE STA. 25+39±. CONTINUE THE 36" WATER MAIN. JACK AND BORE THE REMAINING 80' TO A RECEIVING PIT (10' X 20') TO BE CONSTRUCTED IN PHASE 1. THE CONTRACTOR SHALL TEST THE NEW 36" WATERMAIN PRIOR TO TYING IN TO THE EXISTING 36" MAIN.
- 5.) TIE INTO THE 36" WATER MAIN BETWEEN GIBBS AVE AND ROWLAND AVE / TIE INTO THE 36" WATER MAIN ON 30TH ST, EAST OF MARTINDALE ROAD.:
 - A. TO REDUCE THE TIME THE 36" WATER MAIN IS DISCONNECTED, THE CONTRACTOR SHALL HAVE A SECOND CREW PERFORMING THESE TIE-INS AT THE SAME TIME.

- 6.) DISCONNECT THE 12" MAIN FROM THE TEE ON GIBBS AVE:
 - A. THE CONTRACTOR SHALL DISCONNECT THE 12" WATER MAIN FROM THE NORTH SIDE OF THE TEE THAT WAS INSTALLED UNDER ITEM 1.A AND INSTALL A PLUG ON THE TEE AND ONTO THE 12" WATERLINE TO BE ABANDONED.
- 7.) TIE INTO THE 36" WATER MAIN WEST OF ST ELMO AVE:
 - A. PRIOR TO TYING INTO THE EXISTING 36" WATER MAIN, THE CONTRACTOR SHALL ADEQUATELY FLUSH THE PROPOSED 36" MAIN. IN ORDER TO ACQUIRE THE VOLUME OF WATER NEEDED TO FLUSH THIS LINE, THE CONTRACTOR SHALL RUN A TEMPORARY HOSE FROM THE PUMPER NOZZLES OF THE PROPOSED HYDRANT WEST OF ROWLAND AVE TO THE PROPOSED HYDRANT BETWEEN ROWLAND AVE AND ST ELMO AVE. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE HOSE WHERE IT CROSSES ROWLAND AND AT THE DRIVEWAYS.
- 8.) TIE INTO THE 36" WATER MAIN ON ST ELMO AVE:
 - A. TO REDUCE THE TIME THE 36" WATER MAIN IS DISCONNECTED, THE CONTRACTOR SHALL HAVE A SECOND CREW PERFORMING THIS TIE-IN THE SAME TIME THE WEST END (ITEM 7) IS BEING PERFORMED.
- 9.) REPLACE 36" CROSS AND TIE INTO THE 36" WATER MAIN AT ROWLAND AVE:
 - A. DURING THIS STEP, THE CONTRACTOR SHALL REPLACE THE 36" CROSS AND TIE IN THE PROPOSED 6" LINE FROM THE SOUTH AND THE PROPOSED 12" LINE FROM THE NORTH. THE CONTRACTOR SHALL THEN PLUG THE EXISTING 12" LINES TO THE NORTH AND SOUTH TO BE ABANDONED.
- 10.) DISCONNECT THE 12" MAIN FROM THE WYE ON ROWLAND, SOUTH OF RT 62:
 - A. THE CONTRACTOR SHALL DISCONNECT THE 12" WATER MAIN FROM THE NORTH SIDE OF THE WYE THAT WAS INSTALLED UNDER ITEM 2.A AND INSTALL A PLUG ON THE WYE AND ONTO THE EXISTING 12" WATERLINE TO BE ABANDONED.
- 11.) DISCONNECT THE 12" MAIN FROM THE WYE ON ROWLAND, NORTH OF RT 62:
 - A. THE CONTRACTOR SHALL DISCONNECT THE 12" WATER MAIN FROM THE SOUTH SIDE OF THE WYE THAT WAS INSTALLED UNDER ITEM 3-A AND INSTALL A PLUG ON THE WYE AND ONTO THE EXISTING 12" WATERLINE TO BE ABANDONED.

THE FOLLOWING TIE-INS CAN BE DONE INDEPENDENTLY FROM THE PREVIOUSLY MENTIONED TIE-INS.

- 1-A.) TIE INTO THE WATER MAIN AT THE INTERSECTION OF 31ST ST AND ST ELMO.
- 2-A.) TIE INTO THE 2" WATER LINE THAT RUNS EAST FROM ST ELMO:
 - A. UPON APPROVAL FROM THE WATER DEPARTMENT, THE CONTRACTOR SHALL CONNECT THE PROPOSED 2" TO THE EXISTING 2" LINE.
- 3-A.) TIE INTO THE 12" WATER MAIN ON ROWLAND AVE, NORTH OF RT 62:
 - A. THE CONTRACTOR SHALL TEMPORARILY SHUT DOWN THE EXISTING 12" WATER MAIN, INSTALL THE 12"x12" WYE INTO THE EXISTING 12" MAIN, INSTALL THE 12" GATE VALVE, CLOSE THE VALVE AND RESTORE WATER TO THE EXISTING MAIN. THE CONTRACTOR SHALL THEN PROGRESS WITH THE CONSTRUCTION OF THE PROPOSED 12" WATER MAIN.
 - B. DO NOT TIE THE 12" WATER MAIN INTO THE 36" MAIN AT THIS TIME.
 - C. THIS CONNECTION SHALL BE MADE PRIOR TO ITEM 9 LISTED ABOVE.

THE ABOVE MENTIONED WORK MAY RESULT IN OVERTIME, NIGHTS AND/OR WEEKEND WORK. IF SO, ALL WORK AND WAGES ASSOCIATED WITH THE OVERTIME, NIGHTS AND/OR WEEKEND OPERATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR THE WATERLINE ITEMS. NO ADDITIONAL COMPENSATION WILL BE ACCEPTED.



- REVISIONS/COMMENTS:**
- 1 ANY REFERENCE TO "THE CITY ENGINEER" WITHIN THE GENERAL NOTES SHALL MEAN THE CANTON WATER DEPARTMENT SUPERINTENDENT.
 - 2 NOT APPLICABLE TO THIS PROJECT
 - 3 REFER TO SECTION VIII. WATER MAIN/SERVICES

