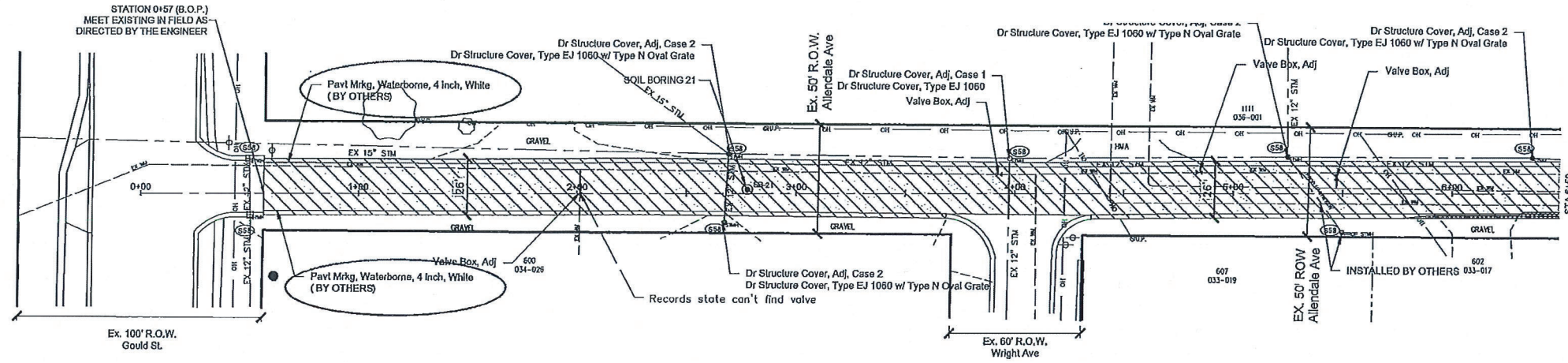


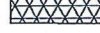



**PLACE PROPOSED PAVEMENT MARKINGS  
OVERTOP EXISTING PAVEMENT MARKINGS OR  
AS DIRECTED BY THE ENGINEER**

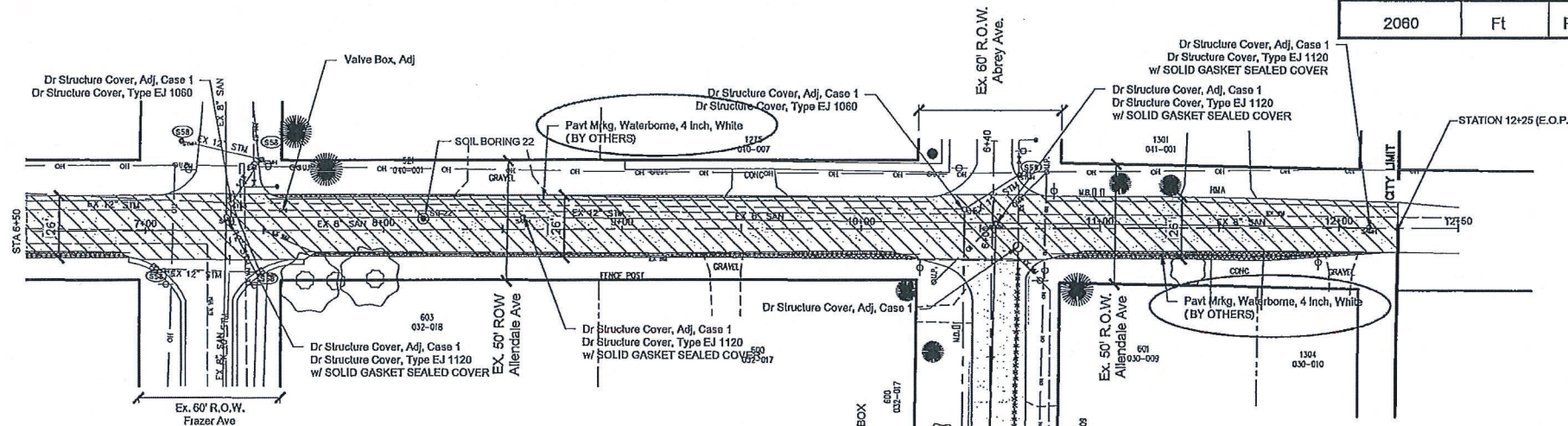


**CONSTRUCTION LEGEND**

-  HMA Base Crushing and Shaping, Modified
-  HMA
-  Aggregate Base, 9 inch, Mod
-  STANDARD SOIL EROSION KEY

**ALLENDALE AVE.  
CONSTRUCTION PLAN**

CONSTRUCTION QUANTITIES (THIS SHEET)		
QUANTITY	UNIT	WORK ITEM
145	Syd	Aggregate Base, 9 inch, Modified
3354	Syd	HMA Base Crushing and Shaping, Modified
3354	Syd	Asphalt Cement Stabilized Base Course, 4 inch
5367	Gal	Asphalt Cement Binder
10	Tons	Approach, CI II
8	Ea	Dr Structure Cover, Adj, Case 1
4	Ea	Dr Structure Cover, Adj, Case 2
3	Ea	Dr Structure Cover, Type EJ 1060
4	Ea	Dr Structure Cover, Type EJ 1060 w/ Type N Oval Grate
4	Ea	Dr Structure Cover, Type EJ 1120 w/ SOLID GASKET SEALED COVER
738	Tons	HMA, 13A
5	Ea	Valve Box, Adj
2080	Ft	Pav't Mrkg, Waterborne, 4 Inch, White



CITY OF OWOSSO, MICHIGAN  
ENGINEERING DIVISION  
DEPT. OF PUBLIC SERVICE

NO.	REVISIONS	DATE	BY

APPROVED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
ORIGINAL PLAN

BENCHMARK DATA	DESCRIPTION
ELEV.	

2019 STREET PROGRAM CONTRACT 2

ALLENDALE AVENUE  
CONSTRUCTION PLAN

FIELD BOOK  
PG. \_\_\_\_\_  
DATE PROJECT NO. \_\_\_\_\_

AL4

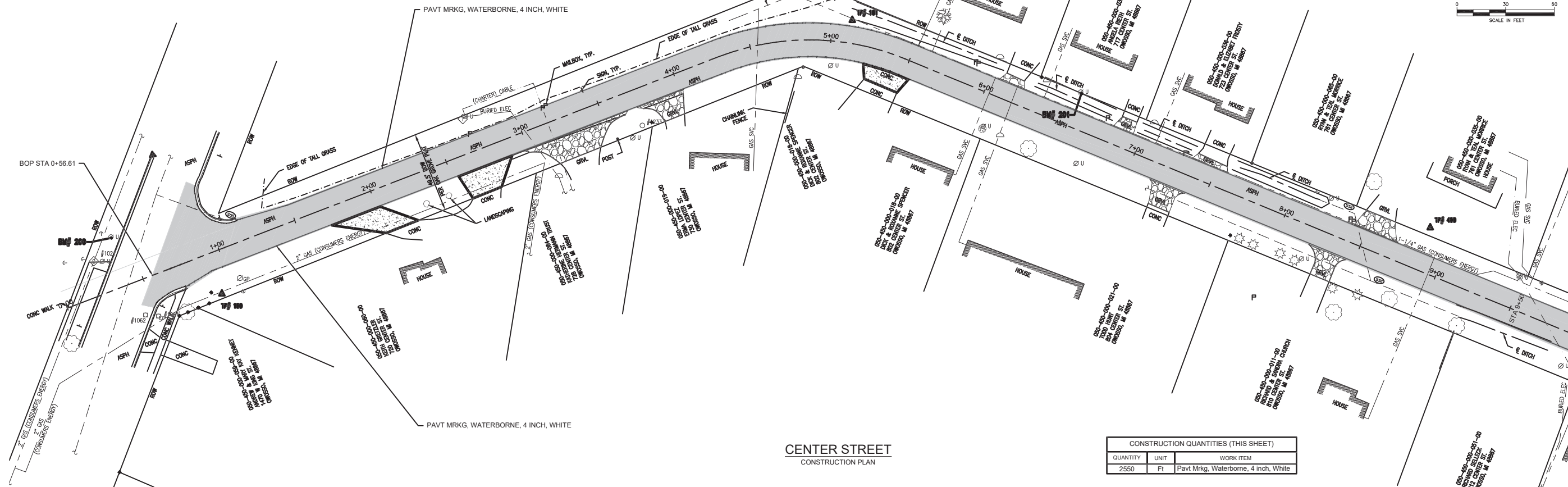
JOB BENCHMARK # 200  
COTTON SPINDLE IN NORTH FACE  
OF POWER POLE ON S SIDE OF  
WEST KING ST @ CENTER ST  
ELEV 752.24

JOB BENCHMARK # 201  
COTTON SPINDLE IN EAST FACE  
OF POWER POLE IN FRONT OF  
HOUSE #717 CENTER STREET  
ELEV 750.44

TRANSVERSE POINT # 100  
N 548583.784  
E 1316888.360 ELEV 750.11

TRANSVERSE POINT # 101  
N 548878.438  
E 1316884.979 ELEV 750.04

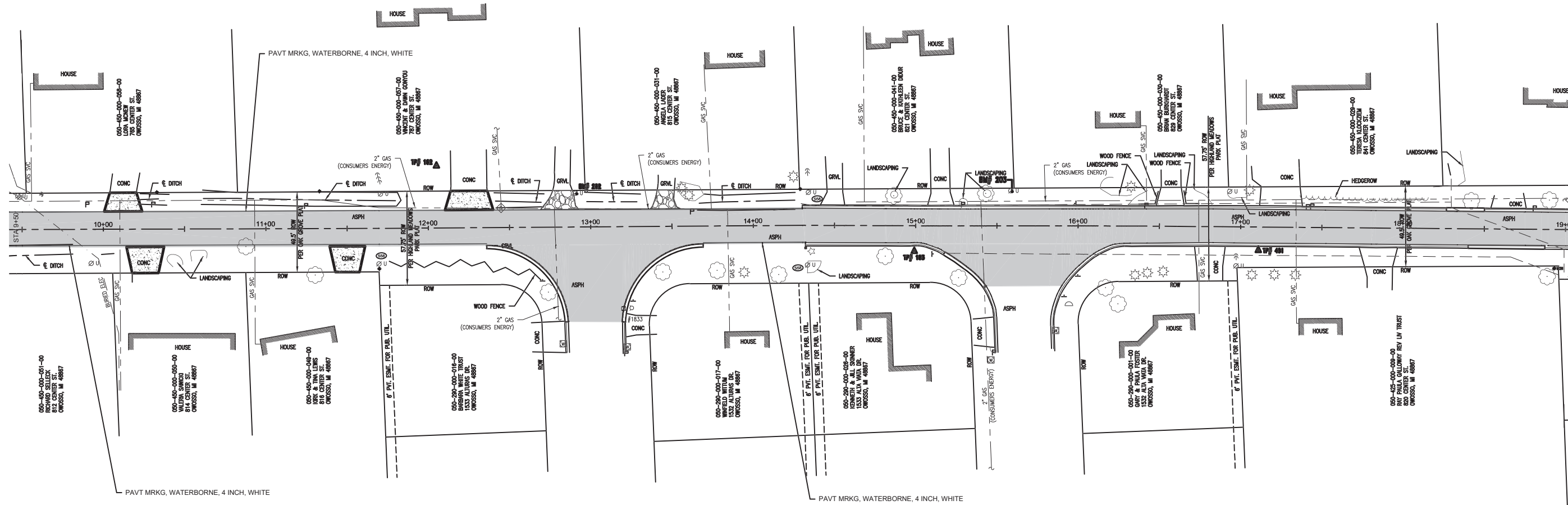
TRANSVERSE POINT # 400  
N 548255.516  
E 13169567.369 ELEV 746.47



**CENTER STREET**  
CONSTRUCTION PLAN

CONSTRUCTION QUANTITIES (THIS SHEET)

QUANTITY	UNIT	WORK ITEM
2550	Ft	Pav't Mrkg, Waterborne, 4 inch, White



CITY OF OWOSSO, MICHIGAN  
ENGINEERING DIVISION  
DEPT. OF PUBLIC SERVICE

NO	DATE	BY	REVISIONS
1	11/14/22	CW	IFB PLANS

NO	DATE	BY	REVISIONS

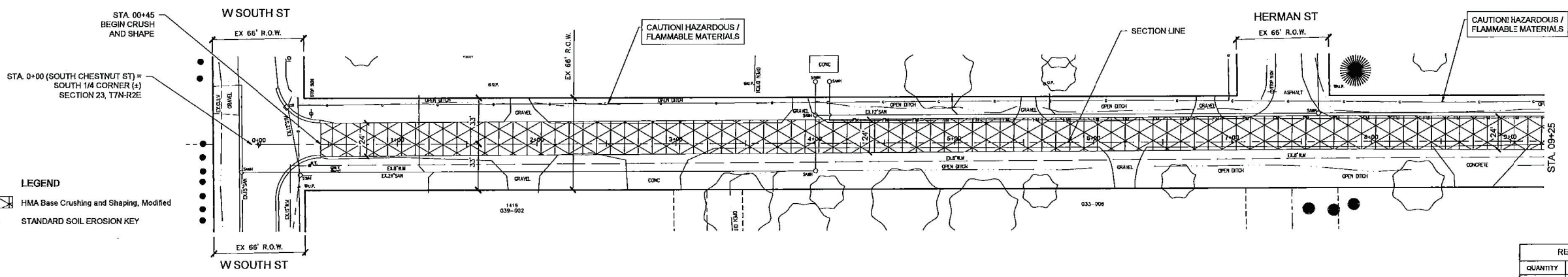
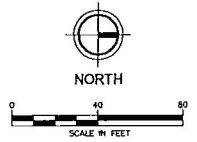
BENCH MARK DATA	DESCRIPTION
ELEV.	

2023 STREET PROGRAM - CONTRACT 1  
CENTER ST  
PAVEMENT MARKING PLAN

FIELD BOOK PG.

MAY 2023  
PROJECT NO.

**CN9**



**LEGEND**  
 HMA Base Crushing and Shaping, Modified  
 STANDARD SOIL EROSION KEY

**NOTES:**  
 FOR GRAVEL DRIVE APPROACHES: CONSTRUCT A ONE FOOT FLARE (TYP. ALL LOCATIONS), THEN BLEND WITH APPROACH, CL II, LM.  
 FOR CONCRETE APPROACHES: SAWCUT AND REMOVE PAVEMENT AS NECESSARY TO ACHIEVE 12 FOOT LANE WIDTH FROM C/L OF STREET.

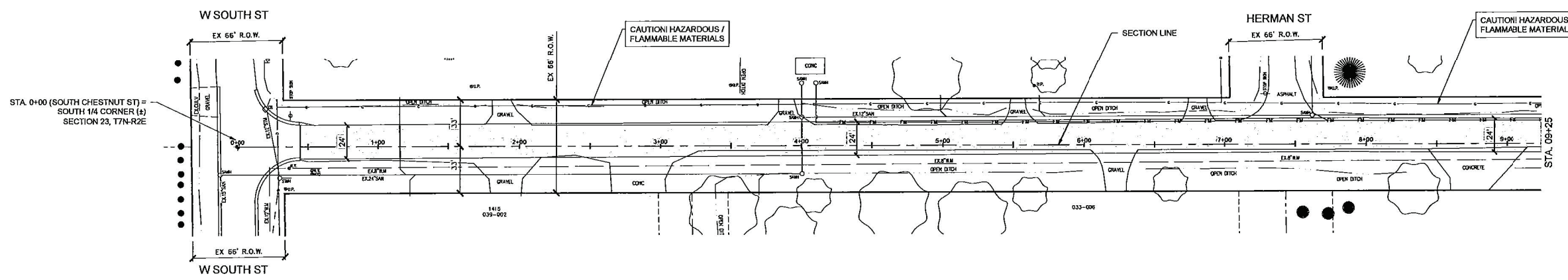
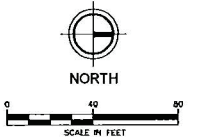
**SOUTH CHESTNUT STREET  
REMOVAL PLAN**

**NOTE:**  
 CONTRACTOR SHALL PROVIDE SUFFICIENT PROTECTION FOR BOTH MOTORISTS AND WORKERS THROUGHOUT WORKSITE SO AS TO ALLOW SAFE PASSAGE AROUND WORK AREAS - AS DIRECTED BY THE ENGINEER

**REMOVAL QUANTITIES (THIS SHEET)**

QUANTITY	UNIT	WORK ITEM
2,348	Syd	HMA Base Crushing and Shaping, Modified
2,348	Syd	Asphalt Cement Stabilized Base Course
3,737	Gal	Asphalt Cement Binder
150	Fl	Saw Cutting
35	Syd	Plant, Rem

**PLACE PROPOSED EDGE LINE  
PAVEMENT MARKINGS SAME AS  
EXISTING FROM SOUTH STREET TO  
STEWART STREET. TOTAL ESTIMATED  
LENGTH IS 4845 FEET OF 4" WHITE  
EDGE LINE.**



**LEGEND**  
 HMA  
 STANDARD SOIL EROSION KEY

**CONSTRUCTION QUANTITIES (THIS SHEET)**

QUANTITY	UNIT	WORK ITEM
277	Ton	HMA, 13A
5	Cyd	Approach, CL II, LM
1,700	Fl	Plant Mfg, Waterborne, 4 inch, White

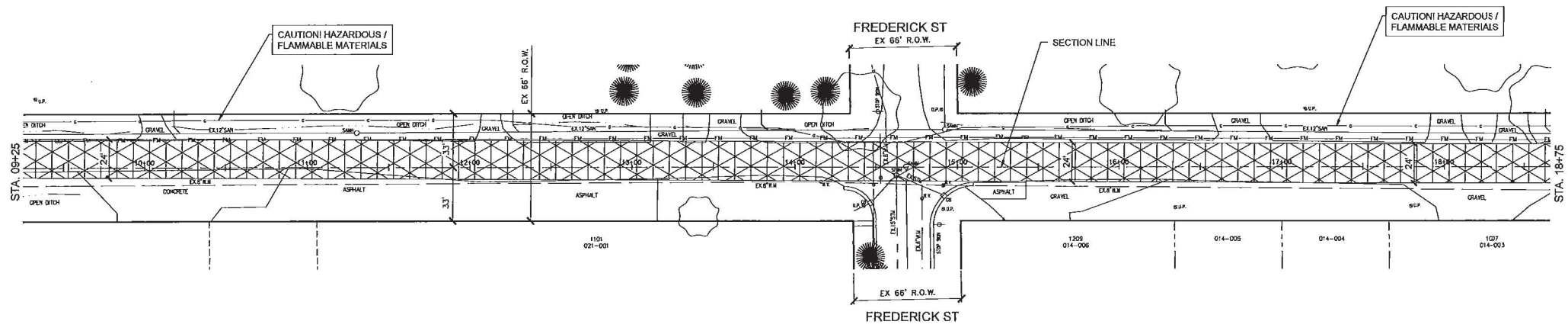
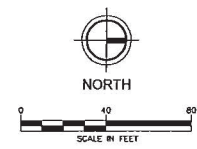
**SOUTH CHESTNUT STREET  
CONSTRUCTION PLAN**

NO.	REVISIONS	DATE	BY

BENCH MARK DATA	DESCRIPTION
ELEV.	

**2017 STREET PROGRAM**  
 REMOVAL / CONSTRUCTION PLAN -  
 SOUTH CHESTNUT STREET  
 JUNE 2017  
 PROJECT NO. 830300  
 FIELD BOOK  
 P.S.





**LEGEND**

	HMA Base Crushing and Shaping, Modified
	STANDARD SOIL EROSION KEY

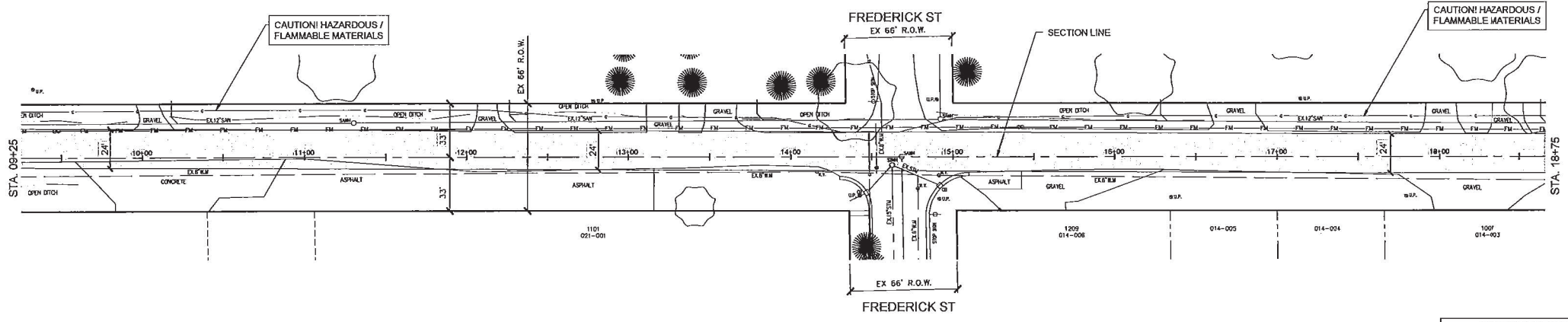
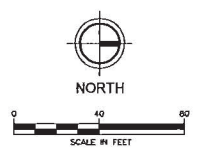
**NOTES:**  
 FOR GRAVEL DRIVE APPROACHES: CONSTRUCT A ONE FOOT FLARE (TYP. ALL LOCATIONS), THEN BLEND WITH APPROACH, CL II, LM.  
 FOR CONCRETE APPROACHES: SAWCUT AND REMOVE PAVEMENT AS NECESSARY TO ACHIEVE 12 FOOT LANE WIDTH FROM CAL OF STREET.

**SOUTH CHESTNUT STREET  
 REMOVAL PLAN**

**NOTE:**  
 CONTRACTOR SHALL PROVIDE SUFFICIENT PROTECTION FOR BOTH MOTORISTS AND WORKERS THROUGHOUT WORKSITE SO AS TO ALLOW SAFE PASSAGE AROUND WORK AREAS - AS DIRECTED BY THE ENGINEER

**REMOVAL QUANTITIES (THIS SHEET)**

QUANTITY	UNIT	WORK ITEM
2,534	Syd	HMA Base Crushing and Shaping, Modified
2,534	Syd	Asphalt Cement Stabilized Base Course
4,054	Gal	Asphalt Cement Binder
400	Fl	Sew Cutting
90	Syd	Part, Rem



**LEGEND**

	HMA
	STANDARD SOIL EROSION KEY

**CONSTRUCTION QUANTITIES (THIS SHEET)**

QUANTITY	UNIT	WORK ITEM
298	Ton	HMA, 13A
5	Cyd	Approach, CL II, LM
1,770	Fl	Pavt Mkg, Waterborne, 4 inch, White

**SOUTH CHESTNUT STREET  
 CONSTRUCTION PLAN**

CITY OF OWOSSO, MICHIGAN  
 ENGINEERING DIVISION  
 DEPT. OF PUBLIC SERVICE

NO.	REVISIONS	DATE	BY

CHECKED BY: ORIGINAL PLAN APPROVED BY:

**BENCH MARK DATA**

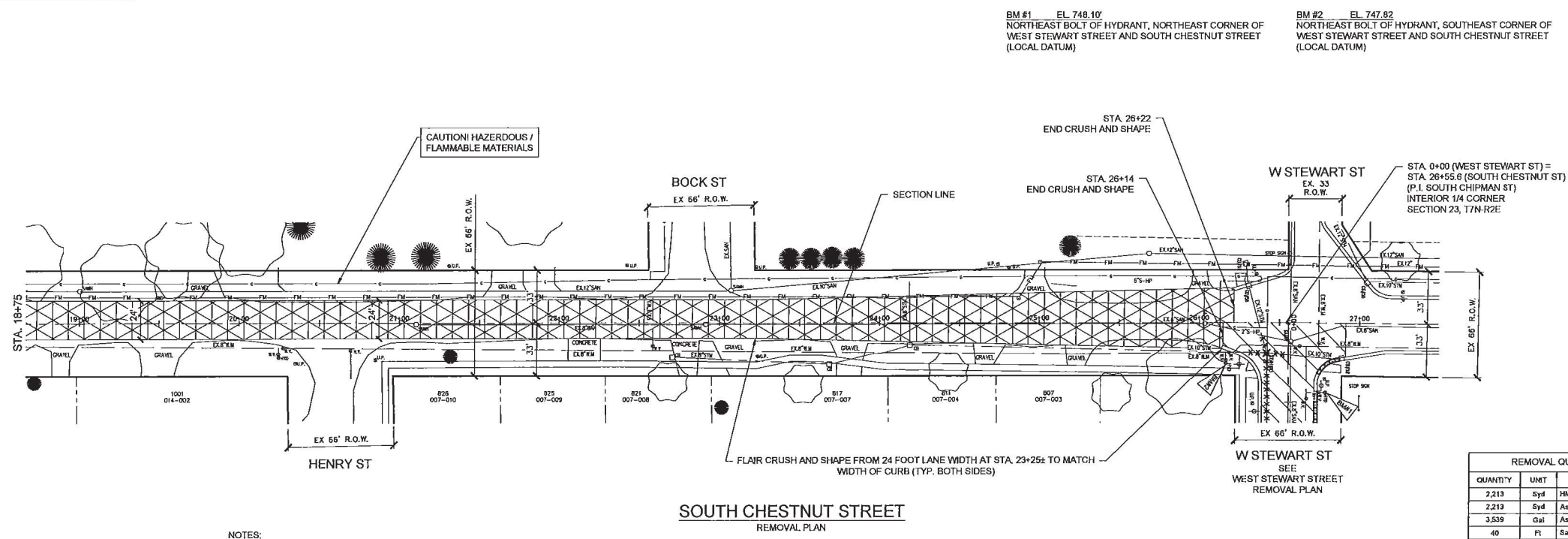
ELEV.	DESCRIPTION

**2017 STREET PROGRAM**  
 REMOVAL / CONSTRUCTION PLAN -  
 SOUTH CHESTNUT STREET

FIELD BOOK  
 PG. 15

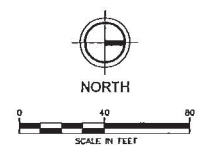
JUNE 2017  
 PROJECT NO. 893900





BM #1 EL 748.10'  
NORTHEAST BOLT OF HYDRANT, NORTHEAST CORNER OF WEST STEWART STREET AND SOUTH CHESTNUT STREET (LOCAL DATUM)

BM #2 EL 747.82'  
NORTHEAST BOLT OF HYDRANT, SOUTHEAST CORNER OF WEST STEWART STREET AND SOUTH CHESTNUT STREET (LOCAL DATUM)



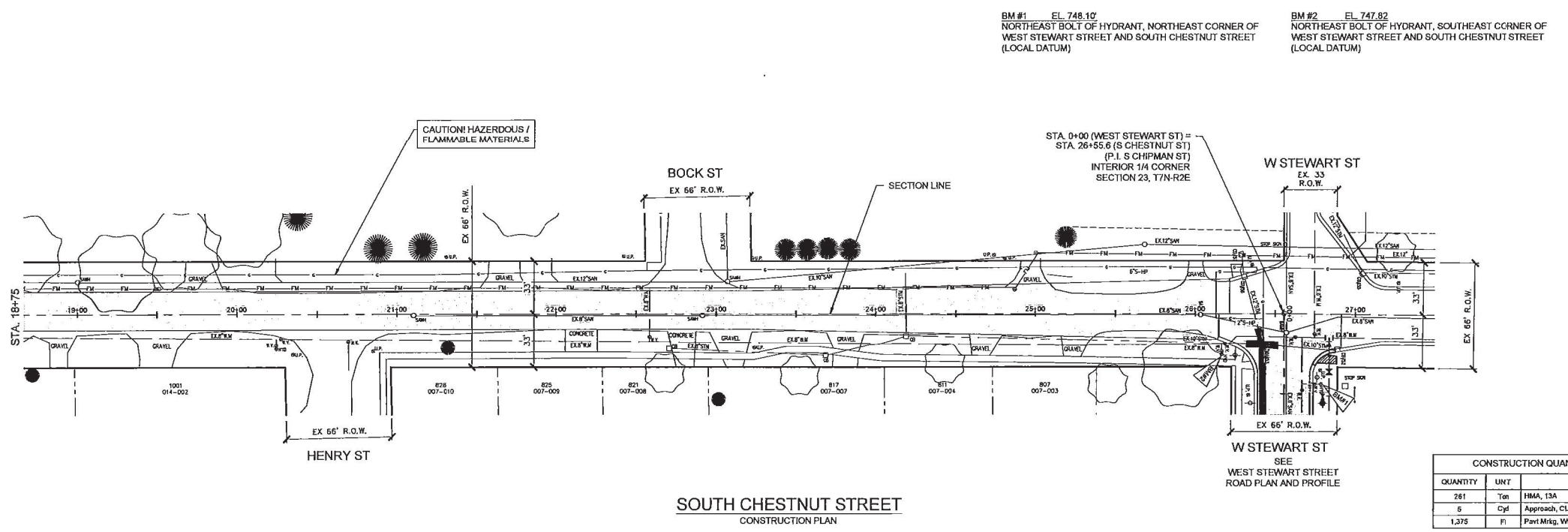
REMOVAL QUANTITIES (THIS SHEET)		
QUANTITY	UNT	WORK ITEM
2,213	Syd	HMA Base Crushing and Shaping, Modified
2,213	Syd	Asphalt Cement Stabilized Base Course
3,539	Gal	Asphalt Cement Binder
40	Fl	Saw Cutting
9	Syd	Pavt, Rem

NOTES:  
FOR GRAVEL DRIVE APPROACHES: CONSTRUCT A ONE FOOT FLARE (TYP. ALL LOCATIONS), THEN BLEND WITH APPROACH, CL II, LM.

FOR CONCRETE APPROACHES: SAWCUT AND REMOVE PAVEMENT AS NECESSARY TO ACHIEVE 12 FOOT LANE WIDTH FROM CL OF STREET.

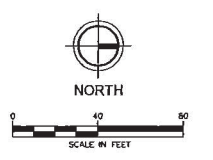
NOTE:  
CONTRACTOR SHALL PROVIDE SUFFICIENT PROTECTION FOR BOTH MOTORISTS AND WORKERS THROUGHOUT WORKSITE SO AS TO ALLOW SAFE PASSAGE AROUND WORK AREAS - AS DIRECTED BY THE ENGINEER

LEGEND  
 HMA Base Crushing and Shaping, Modified  
 STANDARD SOIL EROSION KEY



BM #1 EL 748.10'  
NORTHEAST BOLT OF HYDRANT, NORTHEAST CORNER OF WEST STEWART STREET AND SOUTH CHESTNUT STREET (LOCAL DATUM)

BM #2 EL 747.82'  
NORTHEAST BOLT OF HYDRANT, SOUTHEAST CORNER OF WEST STEWART STREET AND SOUTH CHESTNUT STREET (LOCAL DATUM)



CONSTRUCTION QUANTITIES (THIS SHEET)		
QUANTITY	UNT	WORK ITEM
261	Ton	HMA, 13A
5	Cyd	Approach, CL II, LM
1,375	Fl	Pavt Mtg, Wetlabeone, 4 Inch, White

LEGEND  
 HMA  
 STANDARD SOIL EROSION KEY

CITY OF OWOSSO, MICHIGAN  
 ENGINEERING DIVISION  
 DEPT. OF PUBLIC SERVICE

NO.	REVISIONS	DATE	BY

BENCH MARK DATA	DESCRIPTION
ELEV.	

2017 STREET PROGRAM  
 REMOVAL / CONSTRUCTION PLAN -  
 SOUTH CHESTNUT STREET

JUNE 2017  
 PROJECT NO. 803000

FIELD BOOK  
 PG.





**PLACE PROPOSED PAVEMENT MARKINGS ON TOP EXISTING PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER**

QUANTITIES FOR THIS SHEET

811006 PAVT MARKG OVERLAY COLD PLASTIC 24" STOP BAR	154	FT.
811009 PAVT MARKG OVERLAY COLD PLASTIC, RAILROAD SYM	1	SYMB
8110232 PAVT MARKG, WATERBORNE, 4", YELLOW	5220	FT.
8110231 PAVT MARKG, WATERBORNE, 4", WHITE	130	FT.
811003 PAVT MARKG OVERLAY COLD PLASTIC, TURN ARROW SYM	1	SYMB
811007 PAVT MARKG OVERLAY COLD PLASTIC, THRU AND RT TURN ARROW SYM	1	SYMB

CHESTNUT STREET

PAVEMENT MARKINGS

PROJECT NO. SHEET 1 of 1 FIELD BOOK PG.

BENCH MARK DATA

ELEV. DESCRIPTION

NO. REVISIONS

DATE BY

CITY OF OWOSSO, MICHIGAN

ENGINEERING DIVISION

DEPT. OF PUBLIC SERVICE

SCALE: NONE

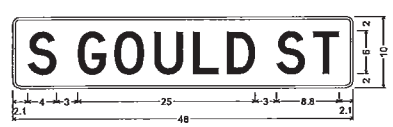
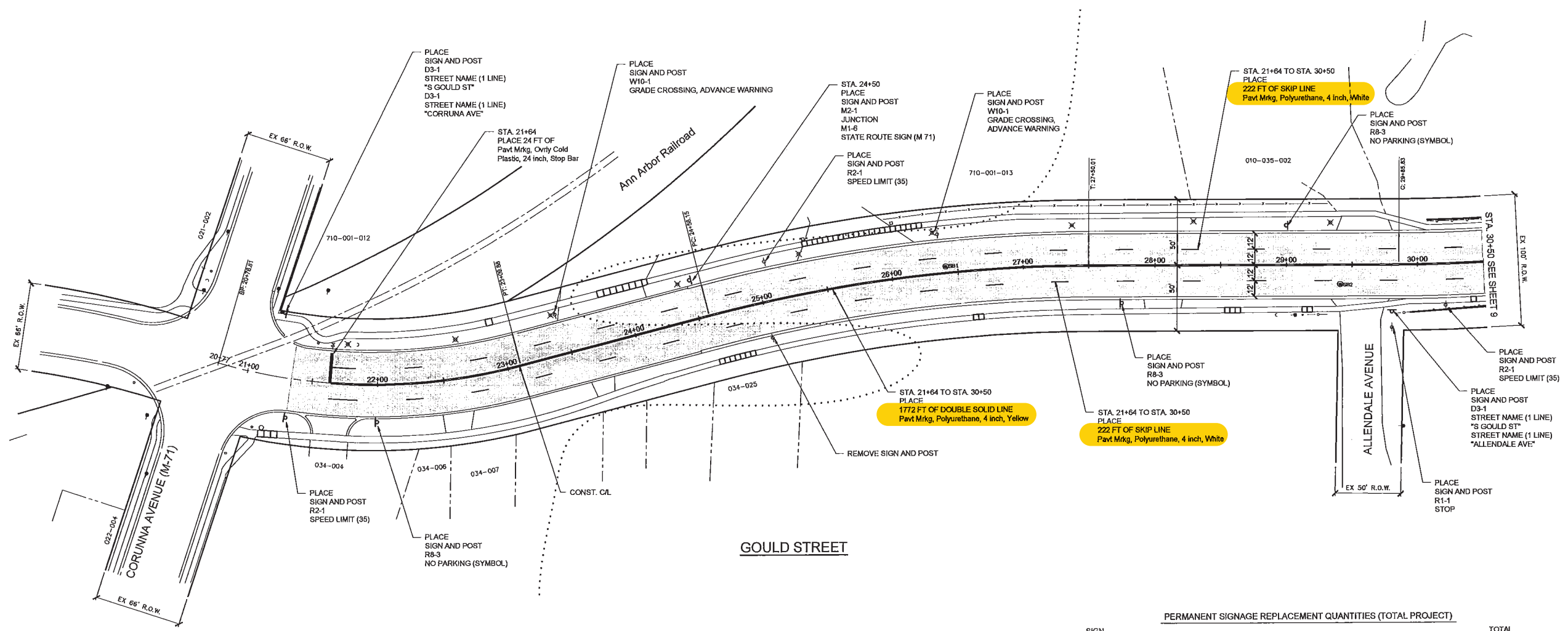
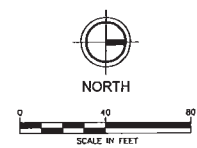
CHECKED BY

APPROVED BY

ORIGINAL PLAN

APPROVED BY





D3-1 SIGN DETAILS

PERMANENT SIGNAGE REPLACEMENT QUANTITIES (TOTAL PROJECT)

SIGN DESIGNATION	SIGN TYPE	SIZE	SQUARE FEET	QUANTITY	TOTAL SQUARE FOOTAGE	
R2-1	SPEED LIMIT (35 MPH)	30" x 36"	7.50	8	60.00	
R1-1	STOP	30" x 30"	6.25	4	25.00	
R8-3	NO PARKING (SYMBOL)	18" x 18"	2.25	7	15.75	
D3-1	STREET SIGN (CORRUNNA AVE)	60" x 10"	4.17	2	8.33	
D3-1	STREET SIGN (S GOULD ST)	48" x 10"	3.33	10	33.30	
D3-1	STREET SIGN (ALLENDALE AVE)	66" x 10"	4.58	2	9.17	
D3-1	STREET SIGN (JEROME AVE)	54" x 10"	3.75	2	7.50	
D3-1	STREET SIGN (GROVER ST)	48" x 10"	3.33	2	6.66	
D3-1	STREET SIGN (E COMSTOCK ST)	66" x 10"	4.58	2	9.16	
W8-13	BRIDGE ICES BEFORE ROAD	36" x 36"	9.00	2	18.00	
W10-1	GRADE CROSSING ADVANCED WARNING	36" DIA.	7.00	2	14.00	
W11-10a	TRUCK	36" x 36"	9.00	1	9.00	
M2-1	JUNCTION	21" x 15"	2.19	1	2.19	
M1-6	STATE ROUTE SIGN (M 71)	24" x 24"	4.00	1	4.00	
					Sign, Type IVA	222.06
					Post, Steel, 3 Lb	560

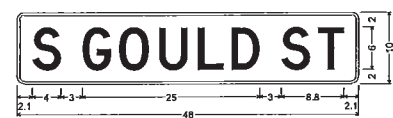
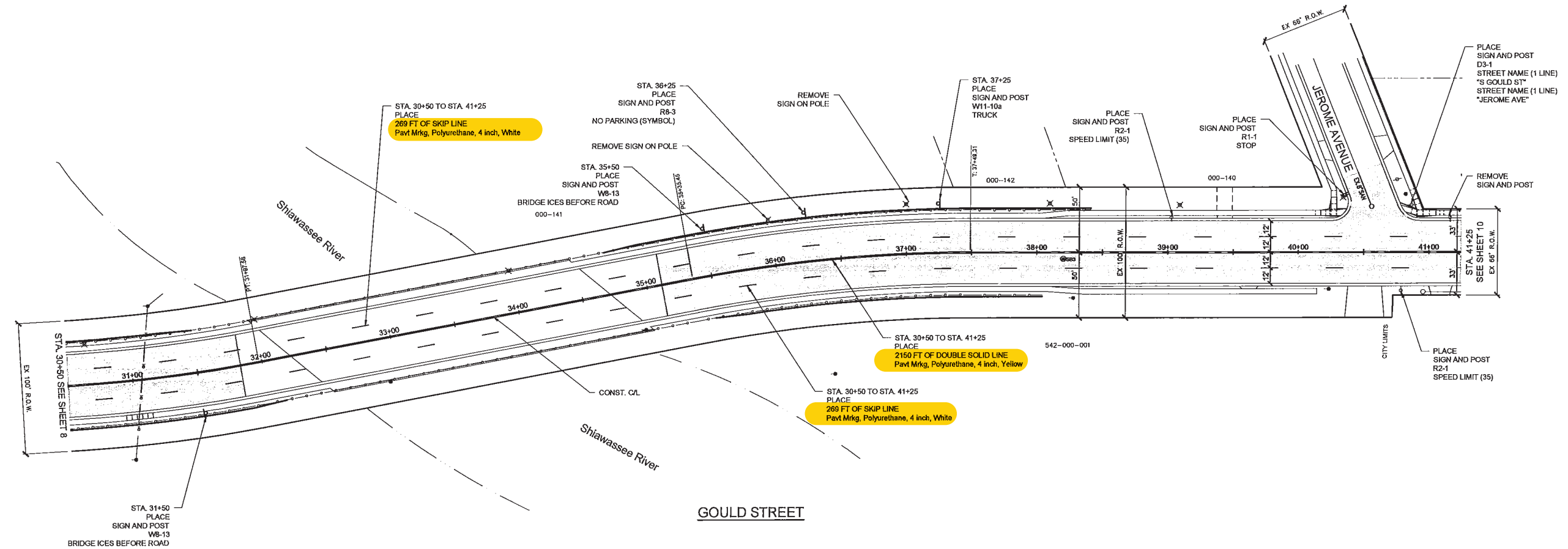
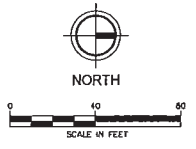
NOTE  
THE CONTRACTOR SHALL PROVIDE ALL NEW PERMANENT SIGNING AS DIRECTED BY THE CONSTRUCTION ENGINEER

CITY OF OWOSSO  
SHIAWASSEE COUNTY, MICHIGAN  
GOULD STREET RESURFACING  
PAVEMENT MARKING AND SIGNAGE PLAN

DESIGN TEAM  
GLR, DPH  
CHECK BY:  
S.J.N NOV 2015  
DRAWING INFORMATION  
823450\_08  
112515 gpc/cr

NOVEMBER 2015  
FAV PROJECT NO.  
823450





D3-1 SIGN DETAILS

ITY OF OWOSO  
SHIAWASSEE COUNTY, MICHIGAN  
GOULD STREET RESURFACING  
PAVEMENT MARKING AND SIGNAGE PLAN

GLR,DPH  
SJM NOV 2015  
823450\_09  
112618 get/cr

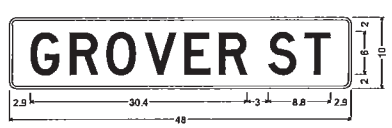
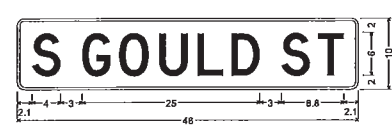
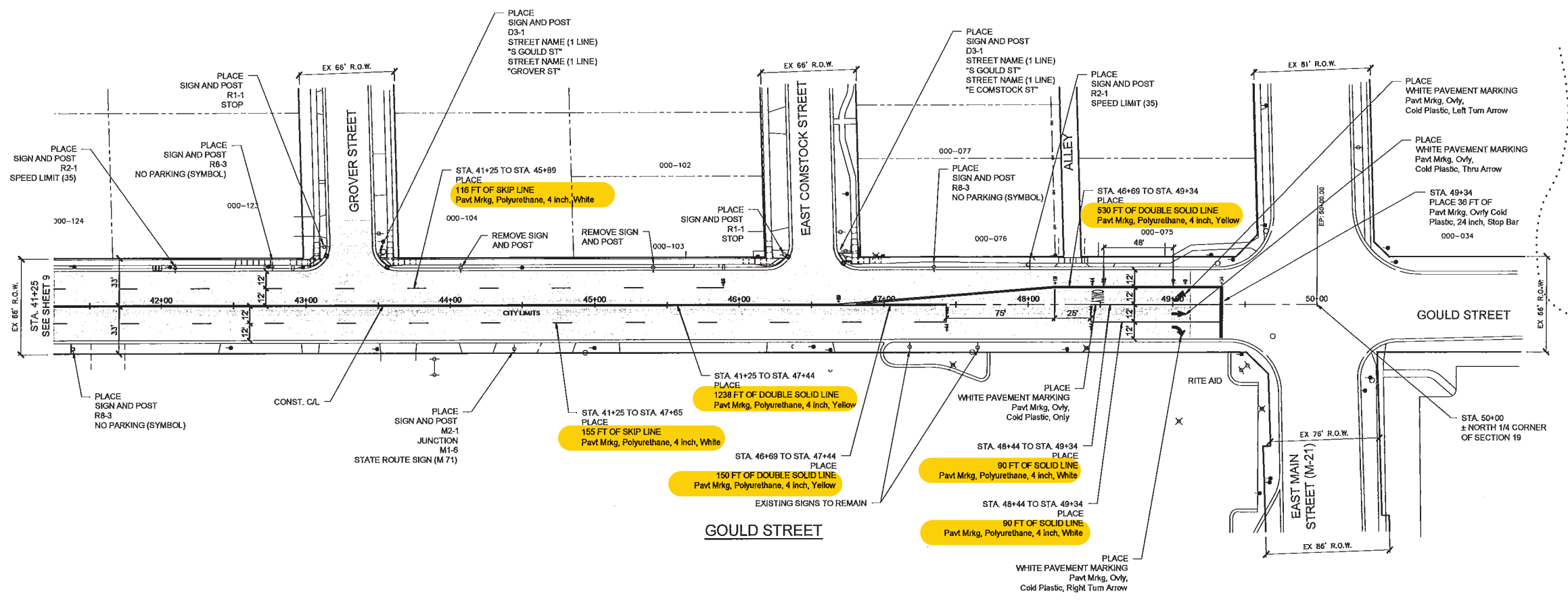
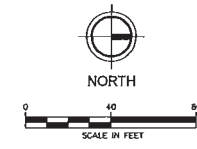
NOVEMBER 2015

823450



Know what's below.  
Call before you dig.





D3-1 SIGN DETAILS

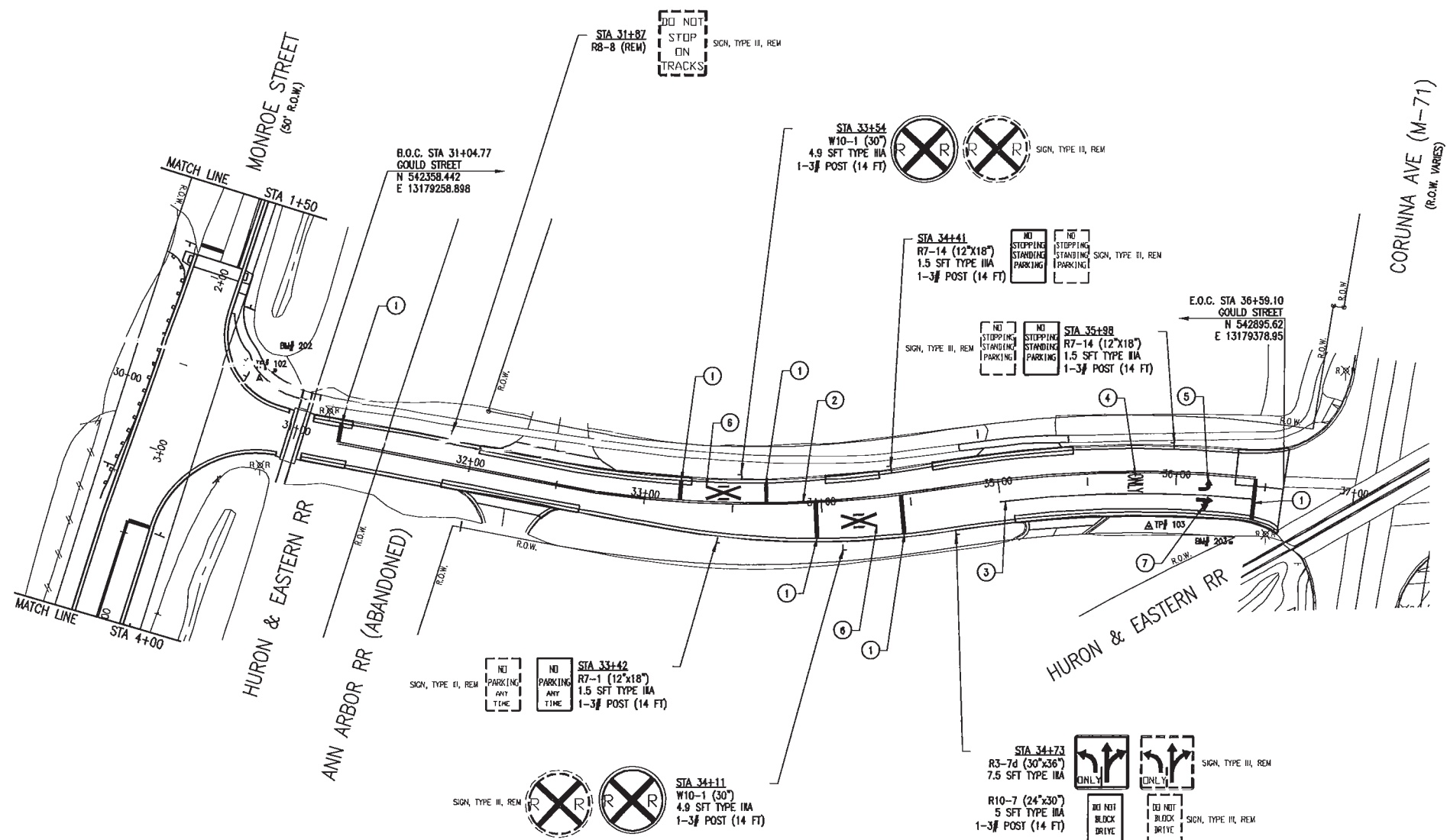


# GOULD STREET

(66' R.O.W.)



**OHM**  
 ARCHITECTS ENGINEERS PLANNERS  
 929 Bridgeview South  
 Saginaw, MI 48604  
 P (989) 393-4200  
 OHM-ADVISORS.COM



- ### LEGEND
- ① PAVT MRKG, OVLY COLD PLASTIC, 24 INCH, STOP BAR
  - ② PAVT MRKG, WATERBORNE, 4 INCH, YELLOW (DOUBLE)
  - ③ PAVT MRKG, WATERBORNE, 4 INCH, WHITE
  - ④ PAVT MRKG, OVLY COLD PLASTIC, ONLY
  - ⑤ PAVT MRKG, OVLY COLD PLASTIC, LT TN AR SYM
  - ⑥ PAVT MRKG, OVLY COLD PLASTIC, RAILROAD SYM
  - ⑦ PAVT MRKG, OVLY COLD PLASTIC, THRU AND RT TURN AR SYM

### QUANTITIES THIS SHEET

TOTAL	UNIT	DESCRIPTION
84	Fl	Post, Steel, 3 lb
8	Ea	Sign, Type II, Rem
27	Sft	Sign, Type IIA
99	Fl	Pavt Mrkg, Only Cold Plastic, 24 inch, Stop Bar
1	Ea	Pavt Mrkg, Only Cold Plastic, Lt Turn Arrow Sym
1	Ea	Pavt Mrkg, Only Cold Plastic, Only
2	Ea	Pavt Mrkg, Only Cold Plastic, Railroad Sym
1	Ea	Pavt Mrkg, Only Cold Plastic, Thru and Rt Turn Arrow Sym
142	Fl	Pavt Mrkg, Waterborne, 4 inch, White
1040	Fl	Pavt Mrkg, Waterborne, 4 inch, Yellow

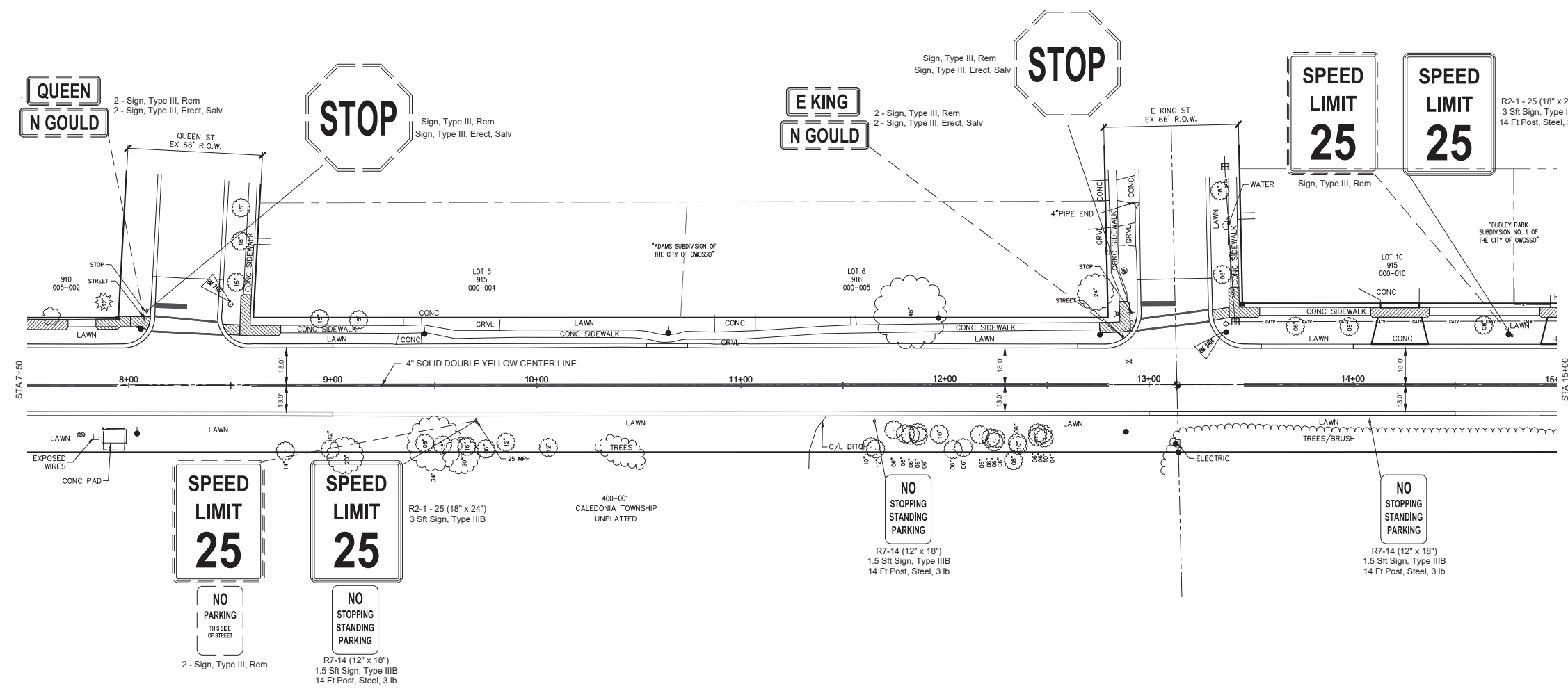
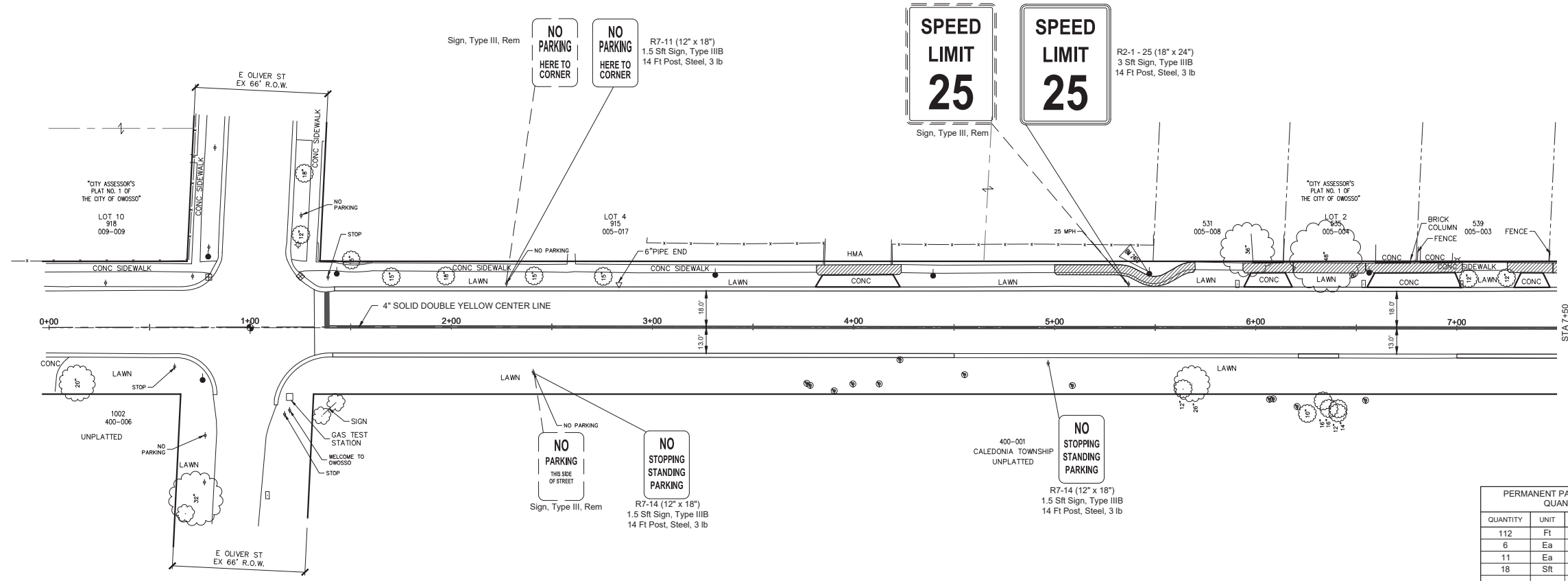


Know what's below.  
 Call before you dig.

CITY OF OWOSSO  
 INDUSTRIAL PARK CONNECTOR  
 GOULD PAVEMENT MARKING & SIGNING SHEET

DRAWING PATH: P:\0000\_01000002072000\_Industrial\_Park\_Connector\Drawings\Civil\AS170030RPLUS.dwg Mar 08, 2016 - 11:54am

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PERMANENT PAVEMENT MARKING & SIGNING QUANTITIES (THIS SHEET)

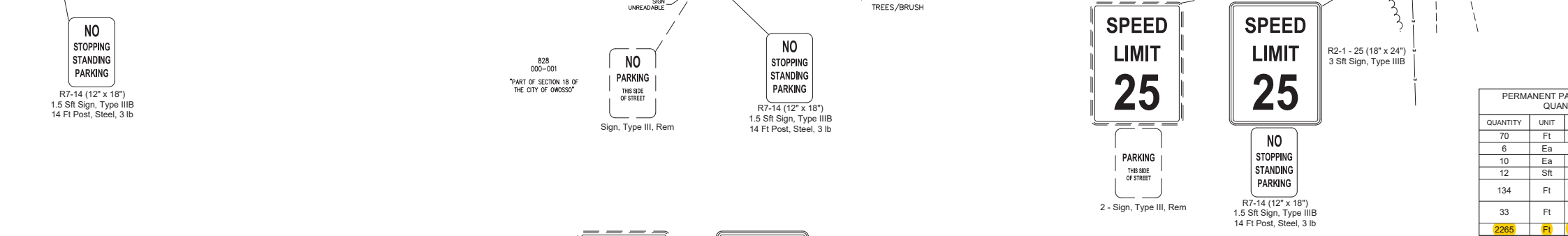
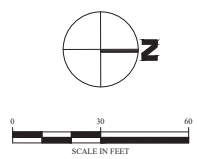
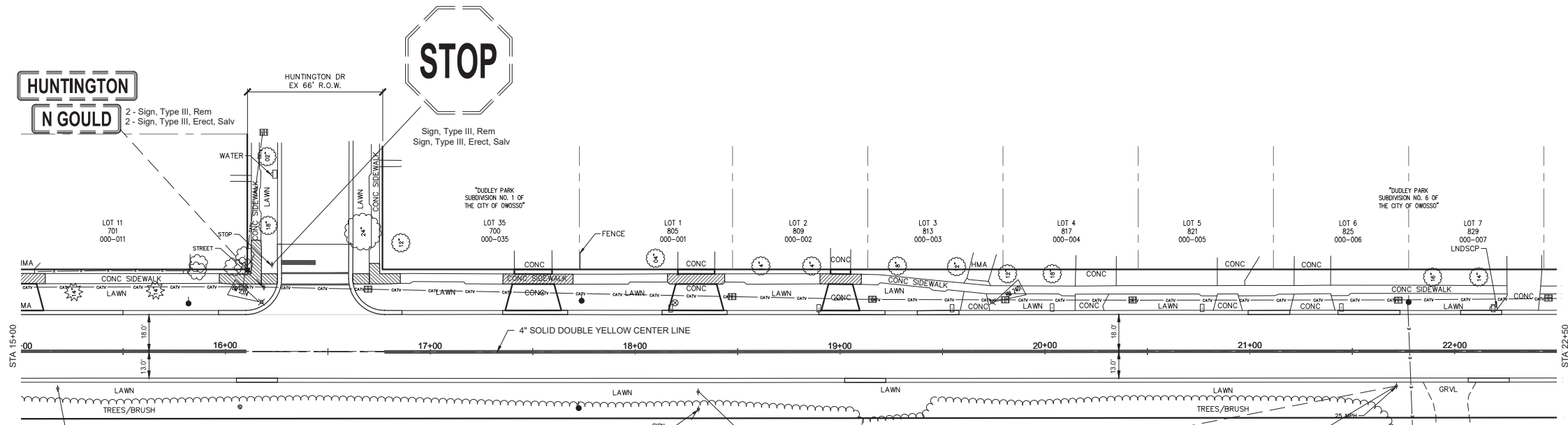
QUANTITY	UNIT	WORK ITEM
112	Ft	Post, Steel, 3 lb
6	Ea	Sign, Type III, Erect, Salv
11	Ea	Sign, Type III, Rem
18	Sft	Sign, Type IIIIB
137	Ft	Pavt Mrlkg, Ovlv Cold Plastic, 6 inch, Crosswalk
50	Ft	Pavt Mrlkg, Ovlv Cold Plastic, 24 inch, Stop Bar
2460	Ft	Pavt Mrlkg, Polyurea, 4 inch, Yellow

CITY OF OWOSSO, MICHIGAN  
ENGINEERING DIVISION  
DEPT. OF PUBLIC SERVICE

NO.	DATE	BY	REVISIONS		APPROVED BY
			DATE	DESCRIPTION	
1	7/6/20	CW			APPROVED BY
2	9/3/20	CW			

BENCH MARK DATA: ELEV. \_\_\_\_\_ DESCRIPTION \_\_\_\_\_  
 N. GOULD STREET PAVEMENT MARKING AND SIGNING  
 MARCH, 2020 PROJECT NO. \_\_\_\_\_ FIELD BOOK PG. \_\_\_\_\_

22



PERMANENT PAVEMENT MARKING & SIGNING QUANTITIES (THIS SHEET)		
QUANTITY	UNIT	WORK ITEM
70	Ft	Post, Steel, 3 lb
6	Ea	Sign, Type III, Erect, Salv
10	Ea	Sign, Type III, Rem
12	Sft	Sign, Type III B
134	Ft	Pavt Mrlkg, Ovly Cold Plastic, 6 inch, Crosswalk
33	Ft	Pavt Mrlkg, Ovly Cold Plastic, 24 inch, Stop Bar
2265	Ft	Pavt Mrlkg, Polyurea, 4 inch, Yellow

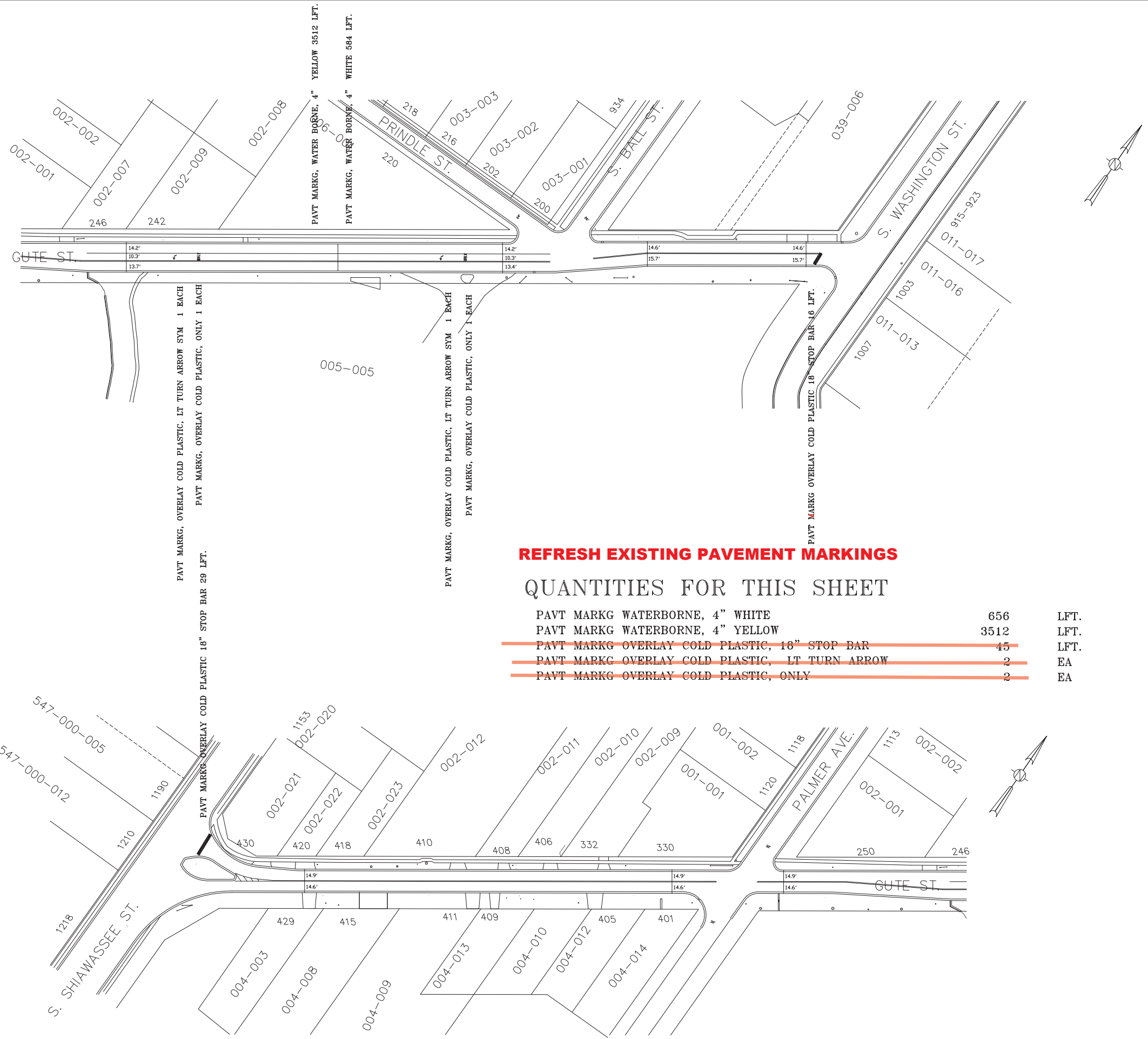
CITY OF OWOSSO, MICHIGAN  
ENGINEERING DIVISION  
DEPT. OF PUBLIC SERVICE

NO.	REVISIONS	DATE	BY
1	GI SUBMITTAL	7/6/20	CW
2	IFB PLANS	9/3/20	CW

BENCH MARK DATA	DESCRIPTION	ELEV.

N. GOULD STREET  
PAVEMENT MARKING AND SIGNING  
MARCH, 2020  
PROJECT NO.

APPROVED BY  
ORIGINAL PLAN  
CHECKED BY  
FIELD BOOK  
PG.  
23



**REFRESH EXISTING PAVEMENT MARKINGS**

**QUANTITIES FOR THIS SHEET**

PAVT MARKG WATERBORNE, 4" WHITE	656	LFT.
PAVT MARKG WATERBORNE, 4" YELLOW	3512	LFT.
<del>PAVT MARKG OVERLAY COLD PLASTIC, 18" STOP BAR</del>	<del>45</del>	<del>LFT.</del>
<del>PAVT MARKG OVERLAY COLD PLASTIC, LT TURN ARROW</del>	<del>2</del>	<del>EA</del>
<del>PAVT MARKG OVERLAY COLD PLASTIC, ONLY</del>	<del>2</del>	<del>EA</del>

PROJECT NO. \_\_\_\_\_  
 SHEET 1 of 1  
 FIELD BOOK PG. \_\_\_\_\_  
**STREET MARKING 2016**  
**GUTE STREET**  
**PAVEMENT MARKING**

BENCH MARK DATA	NO.	REVISIONS	DATE	BY
ELEV.				
DESCRIPTION				

CHECKED BY	APPROVED BY

CITY OF OWOSSO, MICHIGAN  
 ENGINEERING DIVISION  
 DEPT. OF PUBLIC SERVICE  
 SCALE: NONE

# CARGILL ACCESS ROAD (66' R.O.W.)

QUANTITIES THIS SHEET

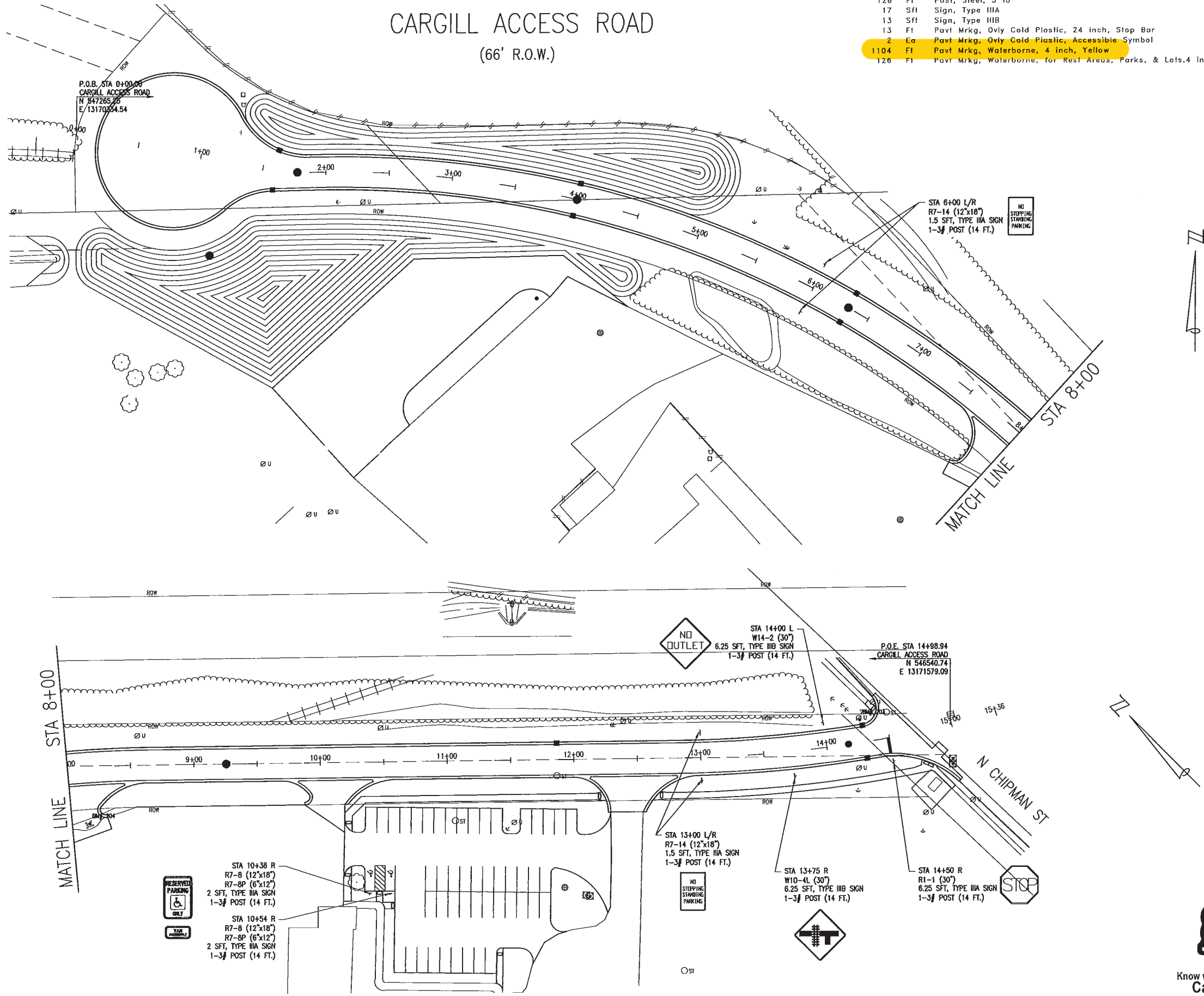
TOTAL	UNIT	DESCRIPTION
126	Fl	Post, Steel, 3 lb
17	Sft	Sign, Type IIIA
13	Sft	Sign, Type IIIB
13	Ft	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar
2	Ea	Pavt Mrkg, Ovly Cold Plastic, Accessible Symbol
1104	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
126	Ft	Pavt Mrkg, Waterborne, for Rest Areas, Parks, & Lots, 4 inch, Blue



**OHM**  
ARCHITECTS ENGINEERS PLANNERS

929 Bridgeview South  
Saginaw, MI 48604  
P 989.393.4200 | F 734.522.6427

OHM-ADVISORS.COM



DRAWING PATH: P:\0000\_01\000020160223\_Owosso\_Cargill\_Project\Drawings\CH\PM\160220PMS.dwg Jun 30, 2016 - 1:55pm

RESERVED

DATE: 02/05/2016  
PROJECT NUMBER: 160220  
ENGINEER: ERS  
PROJ. LEADER: AVY

CITY/TOWNSHIP: CARGILL  
COUNTY: SHERBURN  
STATE: MI

SCALE: 1"=40'

DATE: 02/05/2016

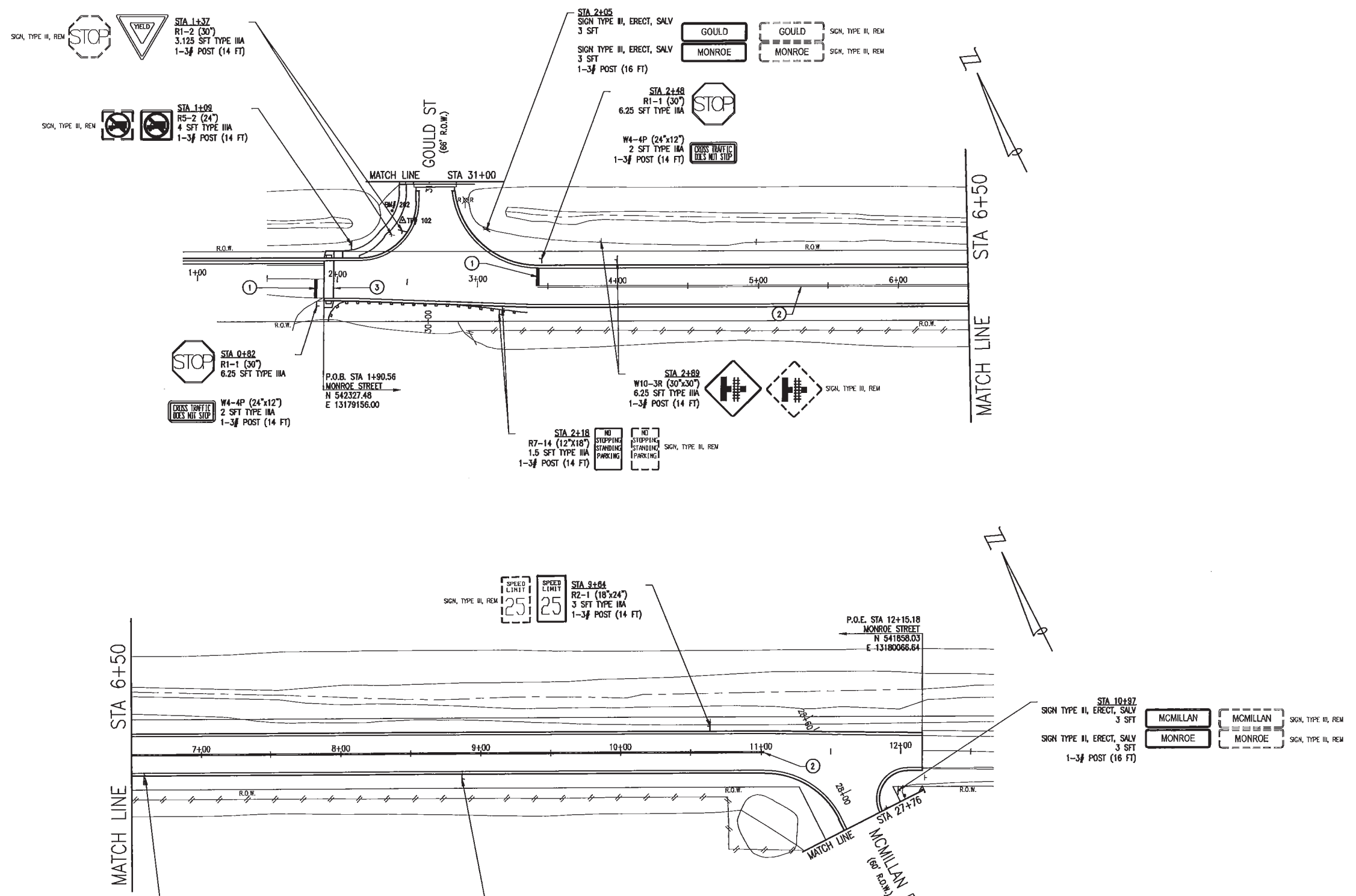
CITY OF OWOSSO  
CARGILL ACCESS ROAD  
PAVEMENT MARKING AND SIGNING SHEET

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

SHEET 27 OF 27

COPYRIGHT 2015 OHM ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF OHM AND THE SAME MAY NOT BE DUPLICATED, DISTRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM

# MONROE STREET (50' R.O.W.)



- LEGEND**
- ① PAVT MRKG, OVLY COLD PLASTIC, 24 INCH, STOP BAR
  - ② PAVT MRKG, WATERBORNE, 4 INCH, YELLOW (DOUBLE)
  - ③ PAVT MRKG, OVLY COLD PLASTIC, 6 INCH, CROSSWALK

**QUANTITIES THIS SHEET**

TOTAL	UNIT	DESCRIPTION
158	Ft	Post, Steel, 3 lb
4	Ea	Sign, Type II, Erect, Salv
12	Ea	Sign, Type II, Rem
38	Sft	Sign, Type IIA
53	Ft	Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk
27	Ft	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar
1518	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow



Know what's below.  
Call before you dig.

**OHM**  
ARCHITECTS ENGINEERS PLANNERS  
929 Bridgeview South  
Saginaw, MI 48804  
P (989) 353-4200  
OHM-ADVISORS.COM

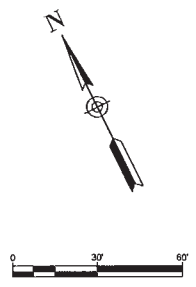
REVISIONS

NO.	DATE	DESCRIPTION

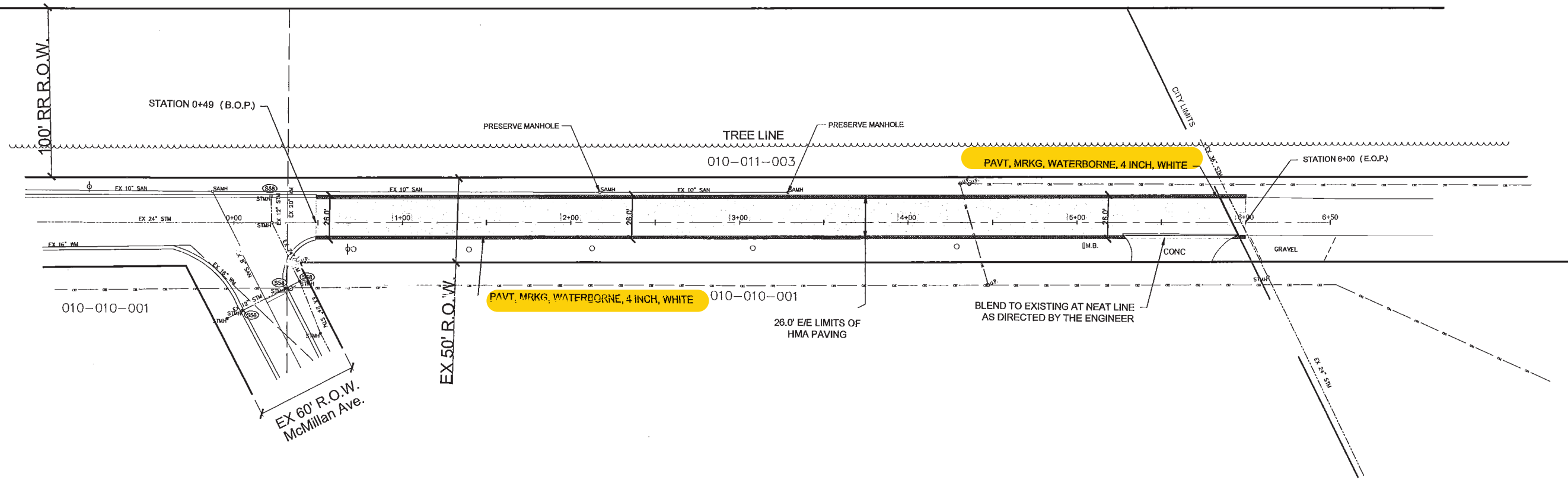
CITY OF OWOSSO  
INDUSTRIAL PARK CONNECTOR  
MONROE PAVEMENT MARKING & SIGNING SHEET

DRAWING PATH: P:\0000\_10000000\710001\_Industrial\_Park\_Connector\Drawings\City\PMIS\170000\PMIS.dwg Mar 08, 2018 - 11:04am

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CITY OF OWOSSO, MICHIGAN  
ENGINEERING DIVISION  
DEPT. OF PUBLIC SERVICE



NO.	REVISIONS	DATE	BY

BENCHMARK DATA	DESCRIPTION
ELEV.	


APPROVED BY

CHECKED BY

FIELD BOOK  
PG.

- CONSTRUCTION LEGEND**
- Aggregate Base, 9 inch, Modified
  - HMA
  - STANDARD SOIL EROSION KEY

# MONROE ST.

## CONSTRUCTION PLAN

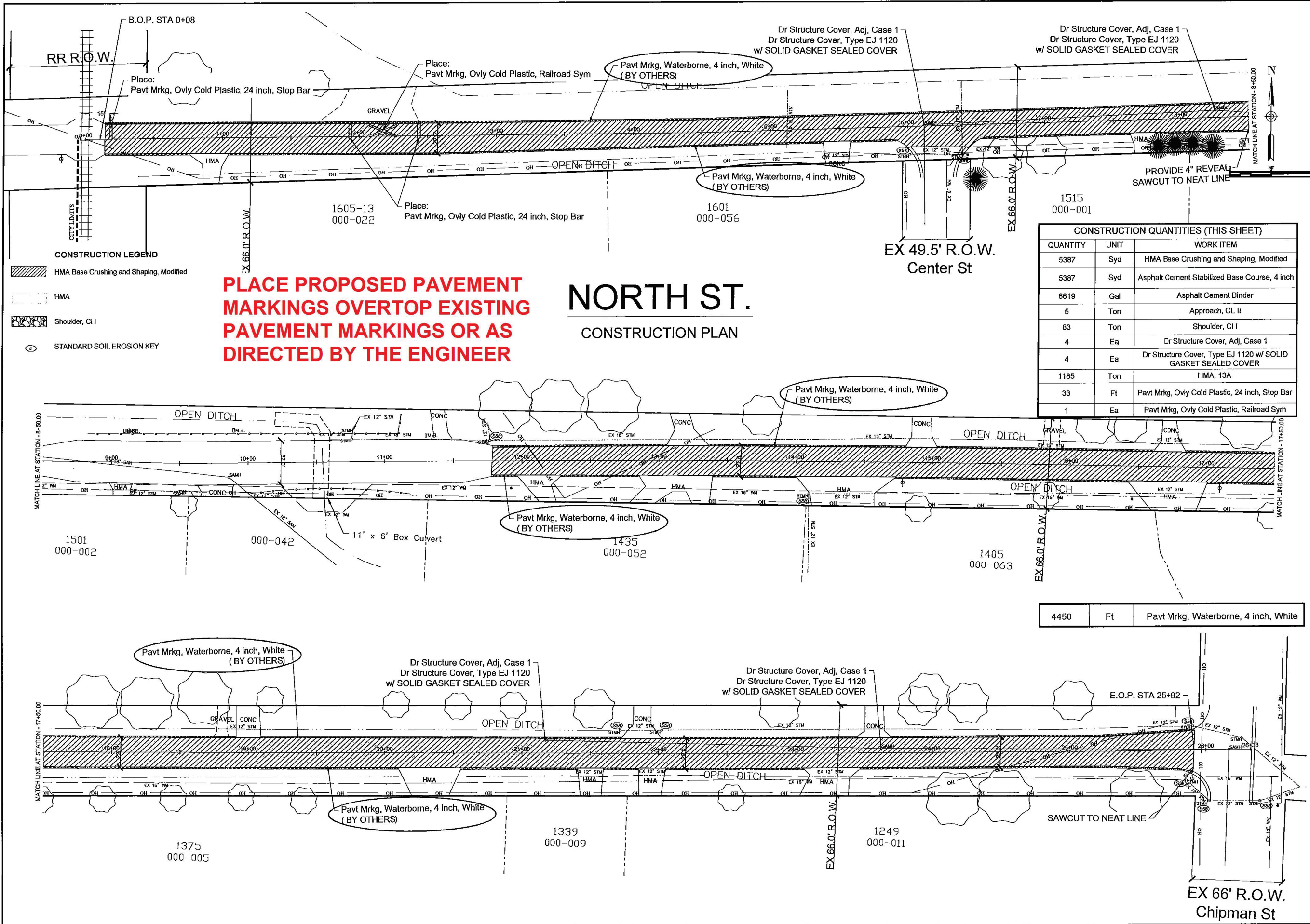
CONSTRUCTION QUANTITIES (THIS SHEET)		
QUANTITY	UNIT	WORK ITEM
207	Syd	Aggregate Base, 9 inch, Modified
350	Ton	HMA, 13A
1103	Ft	Pavy Mrkg, Waterborne, 4 inch, White

2019 RESURFACING

MONROE STREET  
CONSTRUCTION PLAN

MN4





**CONSTRUCTION QUANTITIES (THIS SHEET)**

QUANTITY	UNIT	WORK ITEM
5387	Syd	HMA Base Crushing and Shaping, Modified
5387	Syd	Asphalt Cement Stabilized Base Course, 4 inch
8619	Gal	Asphalt Cement Binder
5	Ton	Approach, Cl II
83	Ton	Shoulder, Cl I
4	Ea	Dr Structure Cover, Adj, Case 1
4	Ea	Dr Structure Cover, Type EJ 1120 w/ SOLID GASKET SEALED COVER
1185	Ton	HMA, 13A
33	Ft	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar
1	Ea	Pavt Mrkg, Ovly Cold Plastic, Railroad Sym

CITY OF OWOSSO, MICHIGAN  
ENGINEERING DIVISION  
DEPT. OF PUBLIC SERVICE

**BENCHMARK DATA**

ELEV.	DESCRIPTION

**REVISIONS**

NO.	DESCRIPTION	DATE	BY

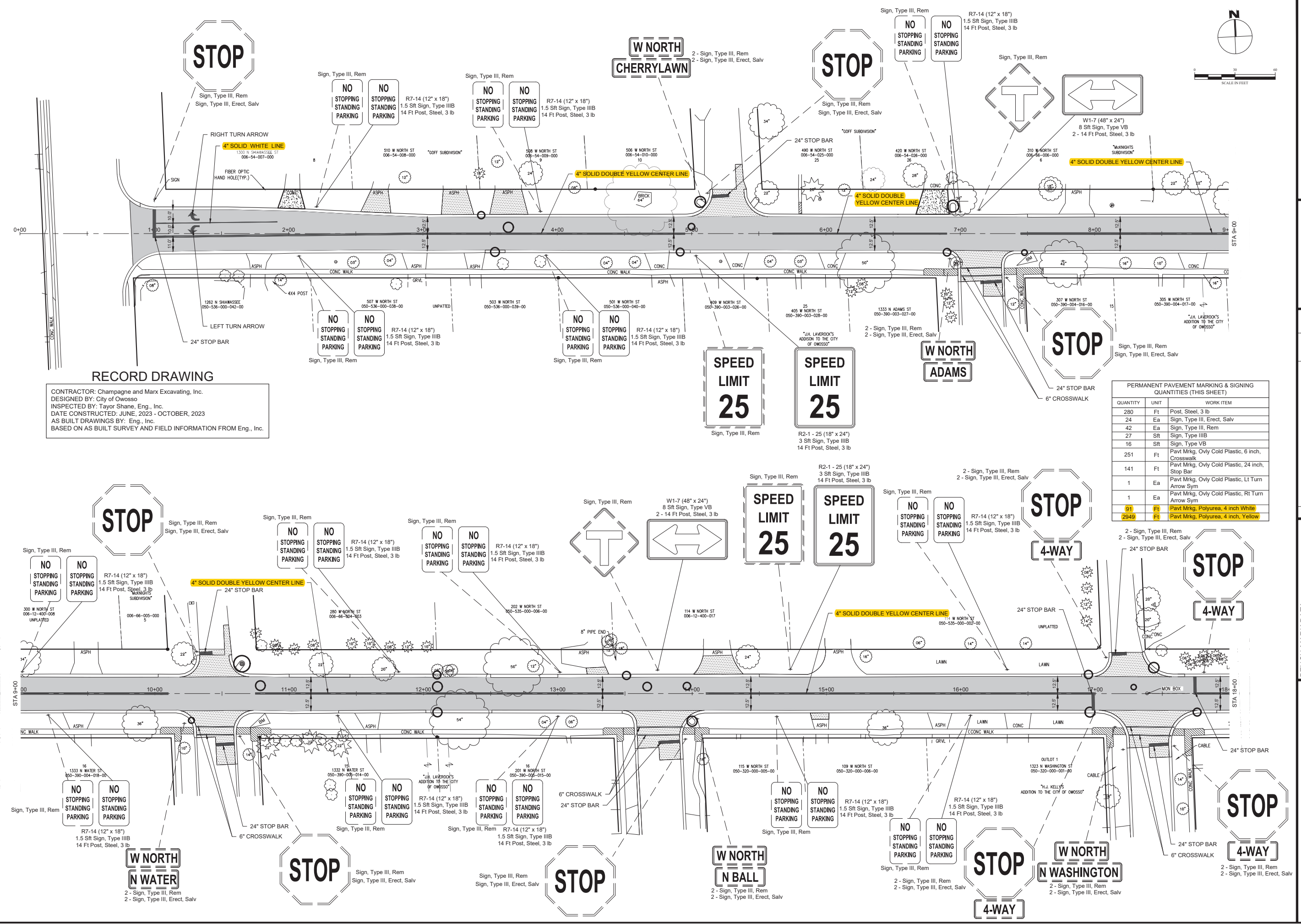
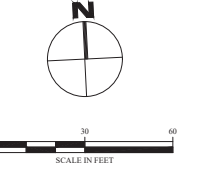
2019 STREET PROGRAM CONTRACT 2

NORTH STREET  
CONSTRUCTION PLAN

NR4

DATE: PROJECT NO. FIELD BOOK P.G.

CHECKED BY: APPROVED BY:



**RECORD DRAWING**

CONTRACTOR: Champagne and Marx Excavating, Inc.  
DESIGNED BY: City of Owosso  
INSPECTED BY: Taylor Shaine, Eng., Inc.  
DATE CONSTRUCTED: JUNE, 2023 - OCTOBER, 2023  
AS BUILT DRAWINGS BY: Eng., Inc.  
BASED ON AS BUILT SURVEY AND FIELD INFORMATION FROM Eng., Inc.

PERMANENT PAVEMENT MARKING & SIGNING QUANTITIES (THIS SHEET)

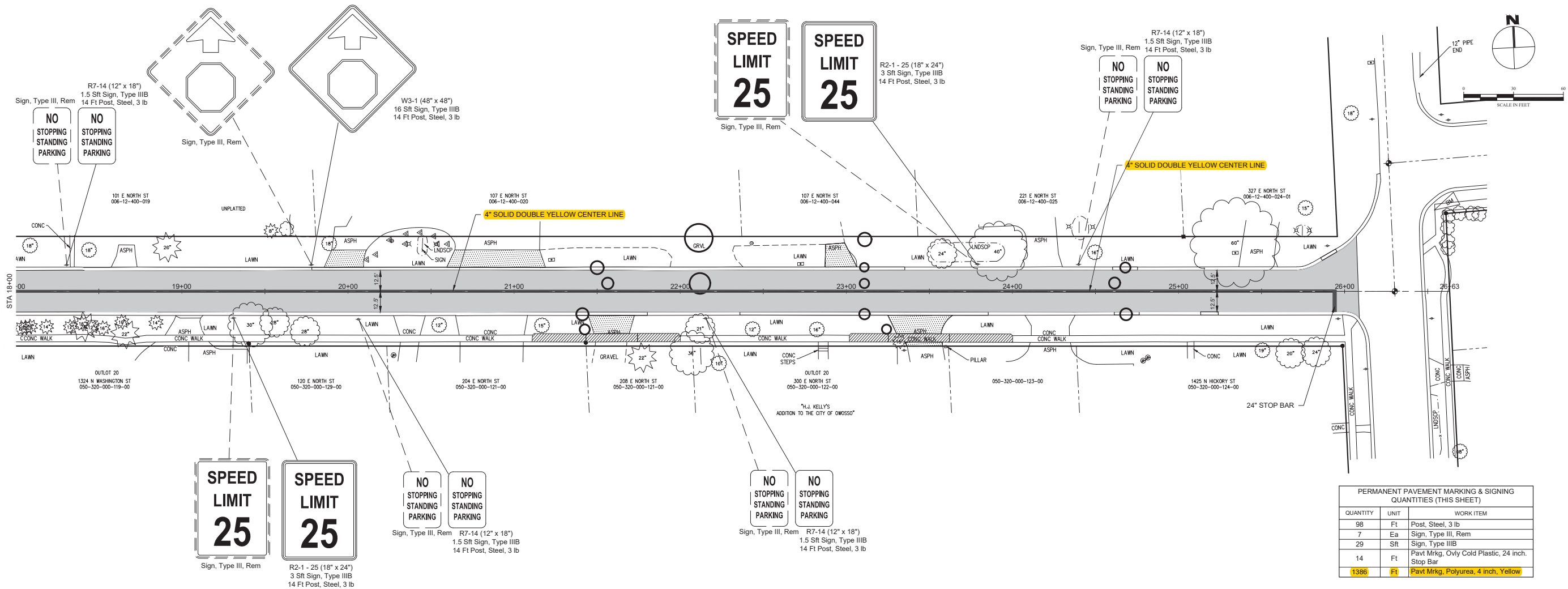
QUANTITY	UNIT	WORK ITEM
280	Ft	Post, Steel, 3 lb
24	Ea	Sign, Type III, Erect, Salv
42	Ea	Sign, Type III, Rem
27	Sft	Sign, Type IIIIB
16	Sft	Sign, Type VB
251	Ft	Pav't Mrgk, Only Cold Plastic, 6 inch, Crosswalk
141	Ft	Pav't Mrgk, Only Cold Plastic, 24 inch, Stop Bar
1	Ea	Pav't Mrgk, Only Cold Plastic, Lt Turn Arrow Sym
1	Ea	Pav't Mrgk, Only Cold Plastic, Rt Turn Arrow Sym
91	Ft	Pav't Mrgk, Polyurea, 4 inch White
2949	Ft	Pav't Mrgk, Polyurea, 4 inch, Yellow

NO.	DATE	BY	REVISIONS
1	10/22	CW	

BENCH MARK DATA	DESCRIPTION
ELEV.	

P:\201100\_City of Owosso - 2023 North Street Rehabilitation\CAD\09 - Record Drawings\W North\_S120\_Signs\_Record\_Dwg.dwg, 1/10/2024 3:03:21 PM, DWG To PDF.plt



PERMANENT PAVEMENT MARKING & SIGNING QUANTITIES (THIS SHEET)		
QUANTITY	UNIT	WORK ITEM
98	Ft	Post, Steel, 3 lb
7	Ea	Sign, Type III, Rem
29	Sft	Sign, Type IIIIB
14	Ft	Pavt Mktg, Ovlly Cold Plastic, 24 Inch. Stop Bar
1386	Ft	Pavt Mktg, Polyurea, 4 Inch, Yellow

**RECORD DRAWING**

CONTRACTOR: Champagne and Marx Excavating, Inc.  
 DESIGNED BY: City of Owosso  
 INSPECTED BY: Taylor Shane, Eng., Inc.  
 DATE CONSTRUCTED: JUNE, 2023 - OCTOBER, 2023  
 AS BUILT DRAWINGS BY: Eng., Inc.  
 BASED ON AS BUILT SURVEY AND FIELD INFORMATION FROM Eng., Inc.

CITY OF OWOSSO, MICHIGAN  
 ENGINEERING DIVISION  
 DEPT. OF PUBLIC SERVICE

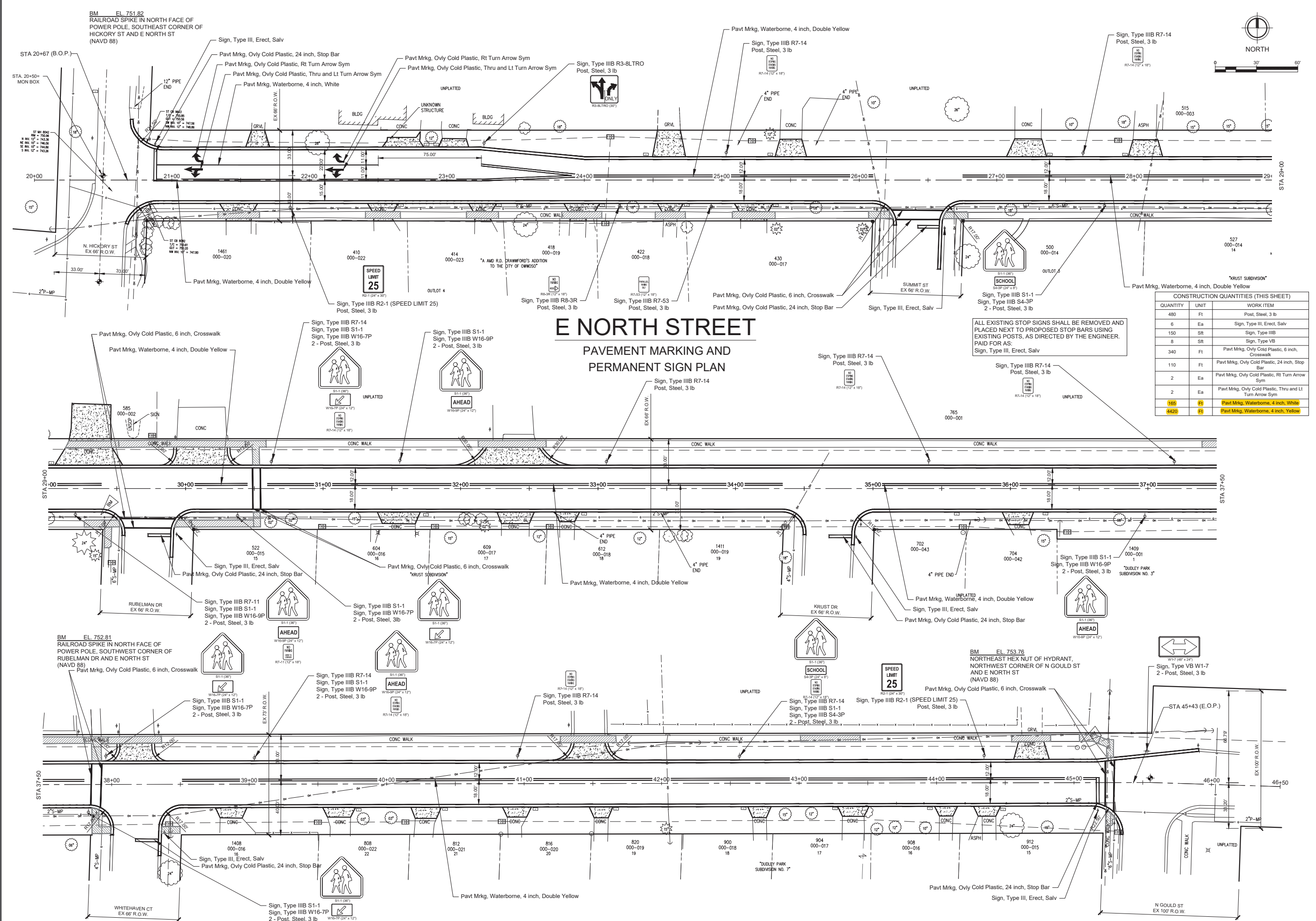
BENCH MARK DATA		REVISIONS	
ELEV.	DESCRIPTION	NO.	BY
		1	IFB PLANS
			DATE
			10/3/22
			BY
			CW

**PAVEMENT MARKING AND SIGNING**

NORTH STREET

FIELD BOOK  
 PG.

MAY 2025  
 MOUNTED  
 LEGLE DWSRFP PROJECT NUMBER 7491-01



## E NORTH STREET PAVEMENT MARKING AND PERMANENT SIGN PLAN

ALL EXISTING STOP SIGNS SHALL BE REMOVED AND PLACED NEXT TO PROPOSED STOP BARS USING EXISTING POSTS, AS DIRECTED BY THE ENGINEER. PAID FOR AS:  
Sign, Type III, Erect, Salv

CONSTRUCTION QUANTITIES (THIS SHEET)		
QUANTITY	UNIT	WORK ITEM
480	Ft	Post, Steel, 3 lb
6	Ea	Sign, Type III, Erect, Salv
150	Sft	Sign, Type III B
8	Sft	Sign, Type VB
340	Ft	Pavt Mrkg, Ovlv Cold Plastic, 6 inch, Crosswalk
110	Ft	Pavt Mrkg, Ovlv Cold Plastic, 24 inch, Stop Bar
2	Ea	Pavt Mrkg, Ovlv Cold Plastic, Rt Turn Arrow Sym
2	Ea	Pavt Mrkg, Ovlv Cold Plastic, Thru and Lt Turn Arrow Sym
165	Ft	Pavt Mrkg, Waterborne, 4 inch, White
4420	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow

NO.	REVISIONS	DATE	BY	APPROVED BY

BENCHMARK DATA	DESCRIPTION
ELEV.	

2020 STREET PROGRAM CONTRACT 1  
DWRP PROJECT NUMBER 7457-01 PHASE 1  
E NORTH STREET  
PAVEMENT MARKING & PERMANENT SIGN PLAN

DATE PROJECT NO.  
FIELD BOOK PG.

NR11



BM EL 751.82  
RAILROAD SPIKE IN NORTH FACE OF  
POWER POLE, SOUTHEAST CORNER OF  
HICKORY ST AND E NORTH ST  
(NAVD 88)

STA 20+50+  
MON BOX

STA 29+00

STA 29+00

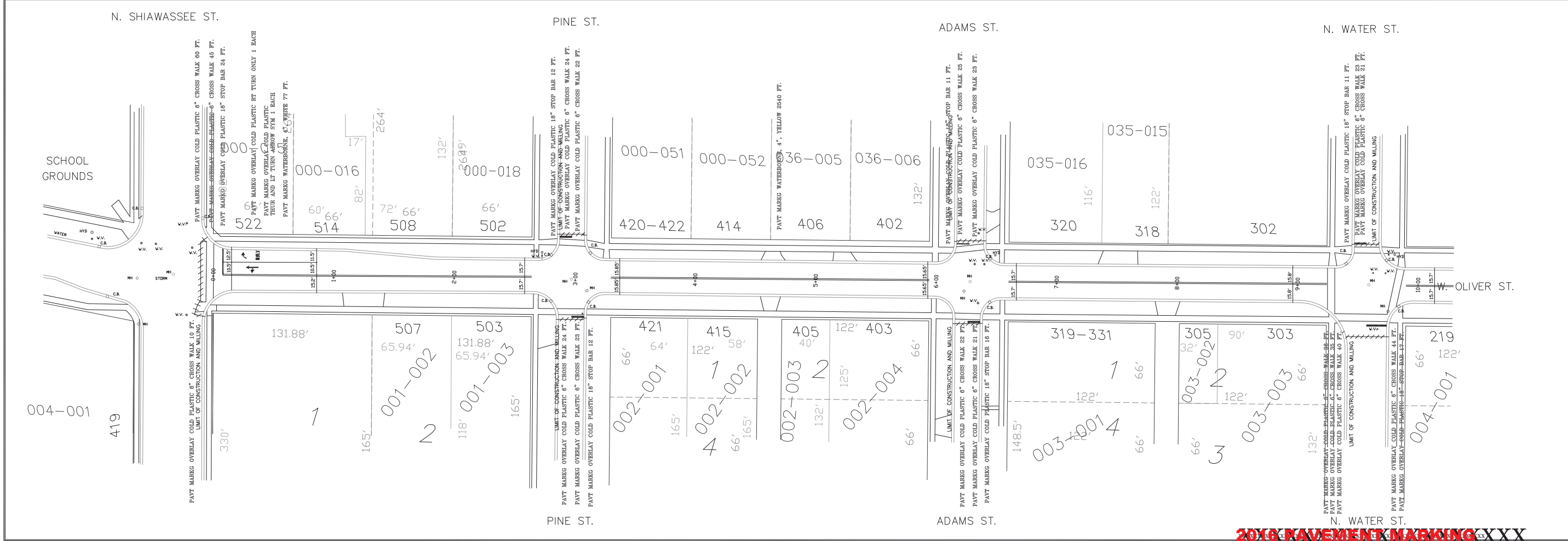
STA 37+50

STA 37+50

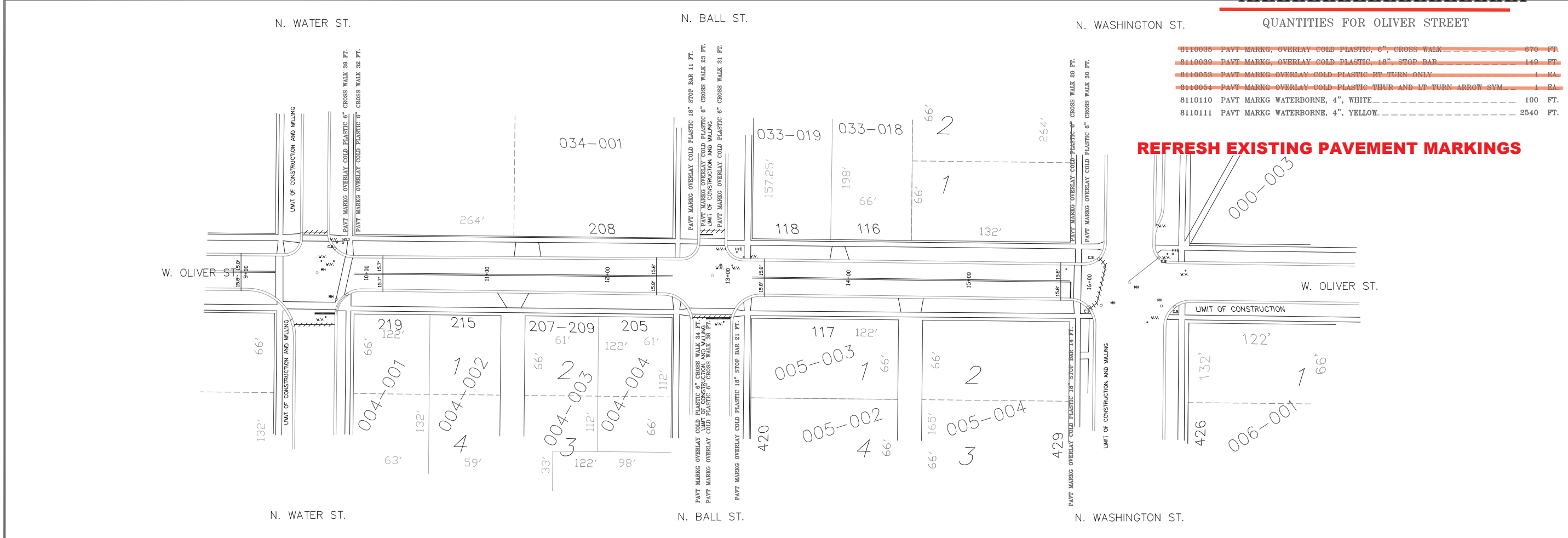
STA 45+43 (E.O.P.)

WHITEHAVEN CT  
EX 66' R.O.W.

N GOULD ST  
EX 100' R.O.W.



**2016 PAVEMENT MARKING**



**REFRESH EXISTING PAVEMENT MARKINGS**

**QUANTITIES FOR OLIVER STREET**

8110055	PAVT MARKG, OVERLAY COLD PLASTIC, 6", CROSS WALK	670	FT.
8110080	PAVT MARKG, OVERLAY COLD PLASTIC, 18" STOP BAR	140	FT.
8110053	PAVT MARKG OVERLAY COLD PLASTIC RT TURN ONLY	1	EA.
8110054	PAVT MARKG OVERLAY COLD PLASTIC THUR AND LT TURN ARROW SYM	1	EA.
8110110	PAVT MARKG WATERBORNE, 4", WHITE	100	FT.
8110111	PAVT MARKG WATERBORNE, 4", YELLOW	2540	FT.

CITY OF OWOSSO, MICHIGAN  
ENGINEERING DIVISION  
DEPT. OF PUBLIC SERVICE  
SCALE: NONE

NO.	REVISIONS	DATE	BY

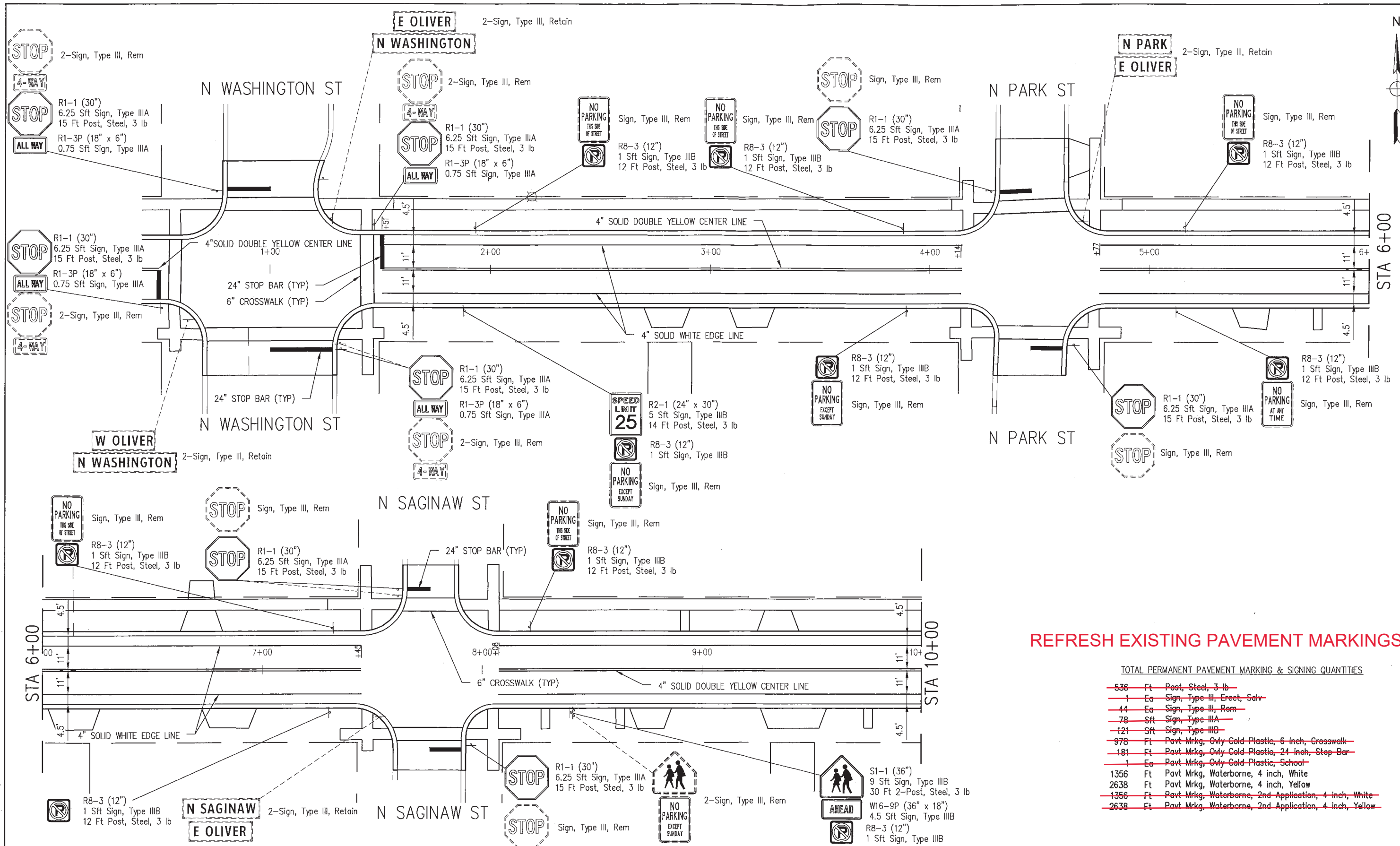
CHECKED BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_

**BENCH MARK DATA**

ELEV.	DESCRIPTION

STREET MARKING 2016  
OLIVER ST.  
SHIAWASSEE TO WASHINGTON  
PAVEMENT MARKING

PROJECT NO. \_\_\_\_\_ SHEET 1 OF 1 FIELD BOOK PG. \_\_\_\_\_



**REFRESH EXISTING PAVEMENT MARKINGS**

TOTAL PERMANENT PAVEMENT MARKING & SIGNING QUANTITIES

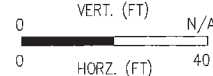
<del>536</del>	Ft	Post, Steel, 3 lb
<del>1</del>	Ea	Sign, Type III, Erect, Solv
<del>44</del>	Ea	Sign, Type III, Rem
<del>78</del>	Sft	Sign, Type IIIA
<del>121</del>	Sft	Sign, Type IIIB
<del>978</del>	Ft	Pavt Mrkg, Only Cold Plastic, 6 inch, Crosswalk
<del>181</del>	Ft	Pavt Mrkg, Only Cold Plastic, 24 inch, Stop Bar
<del>1</del>	Ea	Pavt Mrkg, Only Cold Plastic, School
1356	Ft	Pavt Mrkg, Waterborne, 4 inch, White
2638	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
<del>1356</del>	Ft	<del>Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White</del>
<del>2638</del>	Ft	<del>Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow</del>

11/17/2016 2:08 PM mitchelln]

FINAL PLAN REVISIONS			
NO.	DATE	AUTH	DESCRIPTION



SAGINAW OFFICE  
230 S. Washington Ave.  
Saginaw, MI 48607  
Tel: 989-754-4717  
Fax: 989-754-4440  
www.SpicerGroup.com

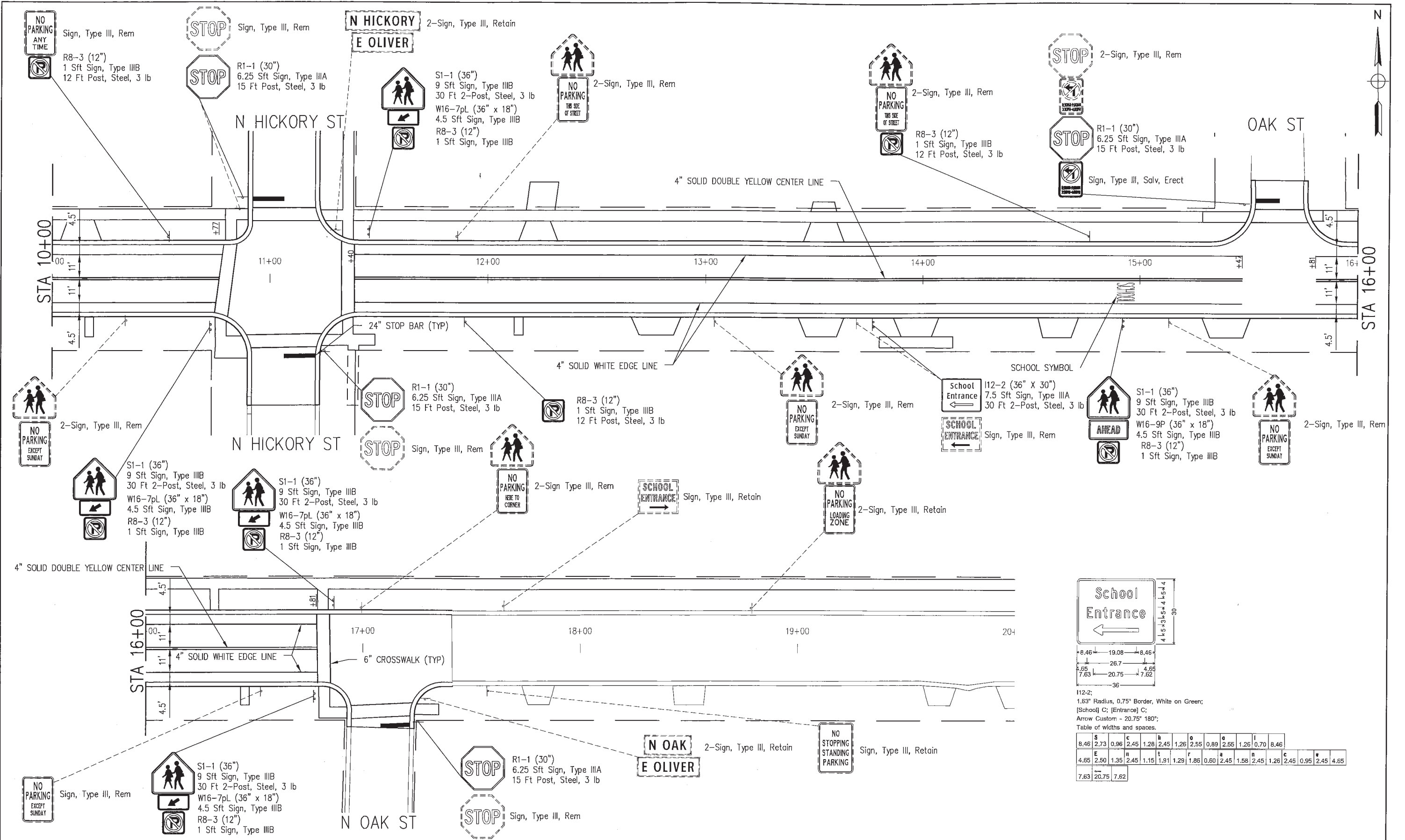


SGI PROJECT NO: 123558SG2016  
DATE: NOVEMBER, 2016  
FILE: BP\_SIGN.DWG

CS: STUL 76421  
JN: 126386A

PAVEMENT MARKING AND SIGNING		DRAWING	SHEET
E OLIVER STREET			
STA 0+35.59 (POB) TO STA 10+00		SIGN1	24

11/18/2016 9:38 AM mitchellrj



112-2:  
1.63" Radius, 0.75" Border, White on Green;  
[School] C; [Entrance] C;  
Arrow Custom - 20.75" 180°;  
Table of widths and spaces.

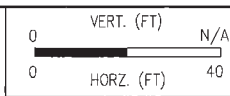
S	S	C	A	O	O	I	I	A								
8.46	2.73	0.96	2.45	1.28	2.45	1.26	2.55	0.89	2.55	1.26	0.70	8.46				
4.65	2.50	1.35	2.45	1.15	1.91	1.29	1.86	0.60	2.45	1.58	2.45	1.26	2.45	0.95	2.45	4.65
7.63	20.75	7.62														

FINAL PLAN REVISIONS

NO.	DATE	AUTH	DESCRIPTION



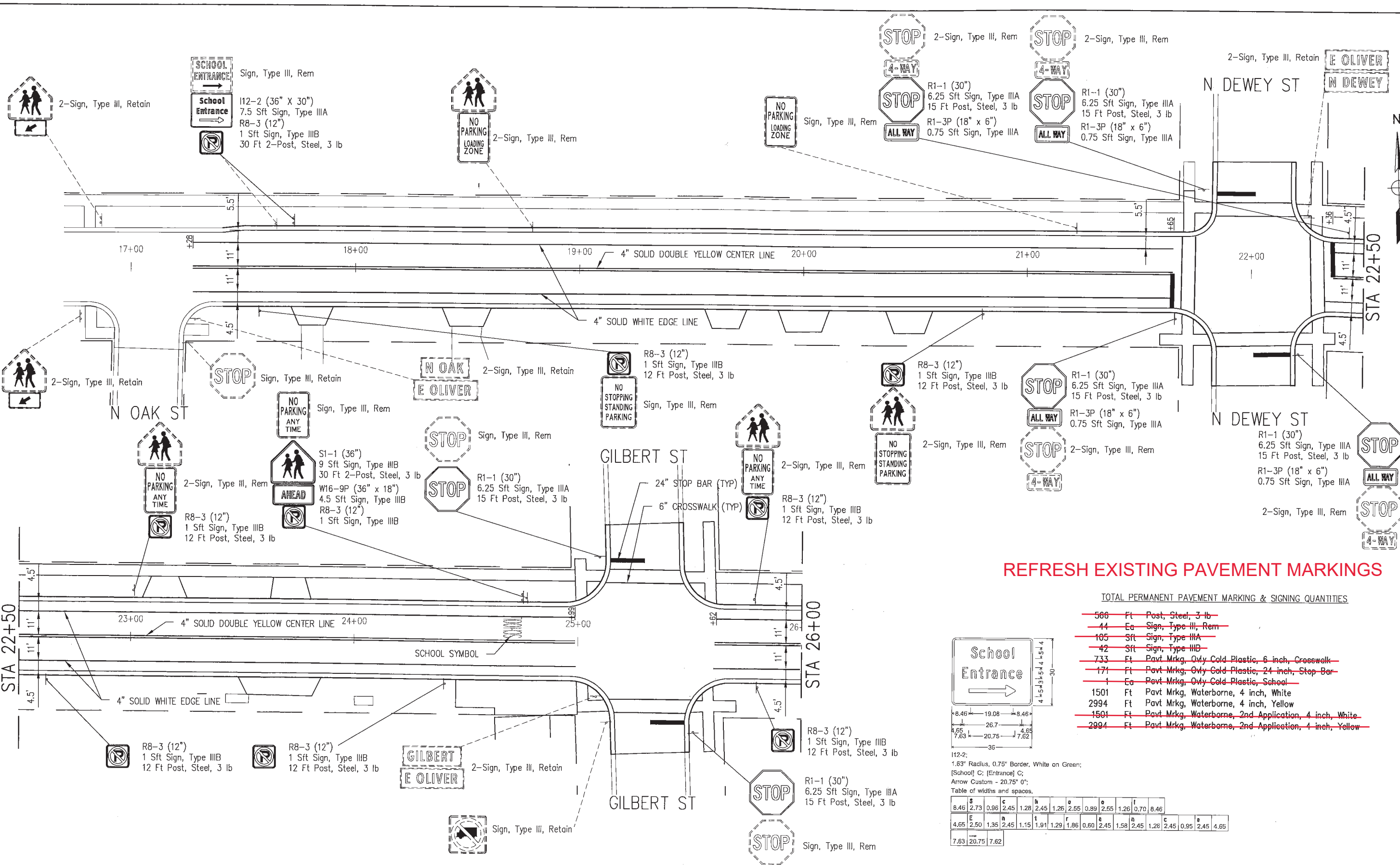
SAGINAW OFFICE  
230 S. Washington Ave.  
Saginaw, MI 48607  
Tel. 989-754-4717  
Fax. 989-754-4440  
www.SpicerGroup.com



SGI PROJECT NO: 123558SG2016  
DATE: NOVEMBER, 2016  
FILE: BP\_SIGN.DWG

CS: STUL 76421  
JN: 126386A

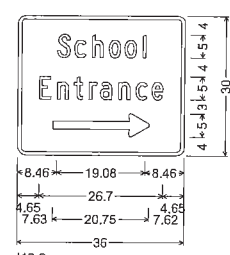
PAVEMENT MARKING AND SIGNING		DRAWING	SHEET
E OLIVER STREET			
STA 10+00 TO STA 17+41.80 (POE)		SIGN2	25



**REFRESH EXISTING PAVEMENT MARKINGS**

TOTAL PERMANENT PAVEMENT MARKING & SIGNING QUANTITIES

- ~~566 Ft Post, Steel, 3 lb~~
- ~~44 Ea Sign, Type III, Rem~~
- ~~105 Sft Sign, Type IIIA~~
- ~~42 Sft Sign, Type IIIB~~
- ~~733 Ft Pavt Mrkg, Ovy Cold Plastic, 6 inch, Crosswalk~~
- ~~171 Ft Pavt Mrkg, Ovy Cold Plastic, 24 inch, Stop Bar~~
- ~~1 Ea Pavt Mrkg, Ovy Cold Plastic, School~~
- 1501 Ft Pavt Mrkg, Waterborne, 4 inch, White
- 2994 Ft Pavt Mrkg, Waterborne, 4 inch, Yellow
- ~~1501 Ft Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White~~
- ~~2994 Ft Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow~~



112-2:  
1.63" Radius, 0.75" Border, White on Green;

[School] C; [Entrance] C;  
Arrow Custom - 20.75" 0";  
Table of widths and spaces.

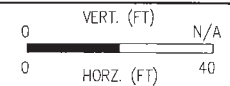
8.46	2.73	0.96	2.45	1.28	2.45	1.26	2.55	0.89	2.55	1.26	0.70	8.46				
4.65	2.50	1.35	2.45	1.15	1.91	1.29	1.86	0.80	2.45	1.58	2.45	1.26	2.45	0.95	2.45	4.65
7.63	20.75	7.62														

9/12/2017 4:39 PM allentja

FINAL PLAN REVISIONS			
NO.	DATE	AUTH	DESCRIPTION



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230 S. Washington Ave.  
Saginaw, MI 48607  
Tel. 989-754-4717  
Fax. 989-754-4440  
www.SpicerGroup.com

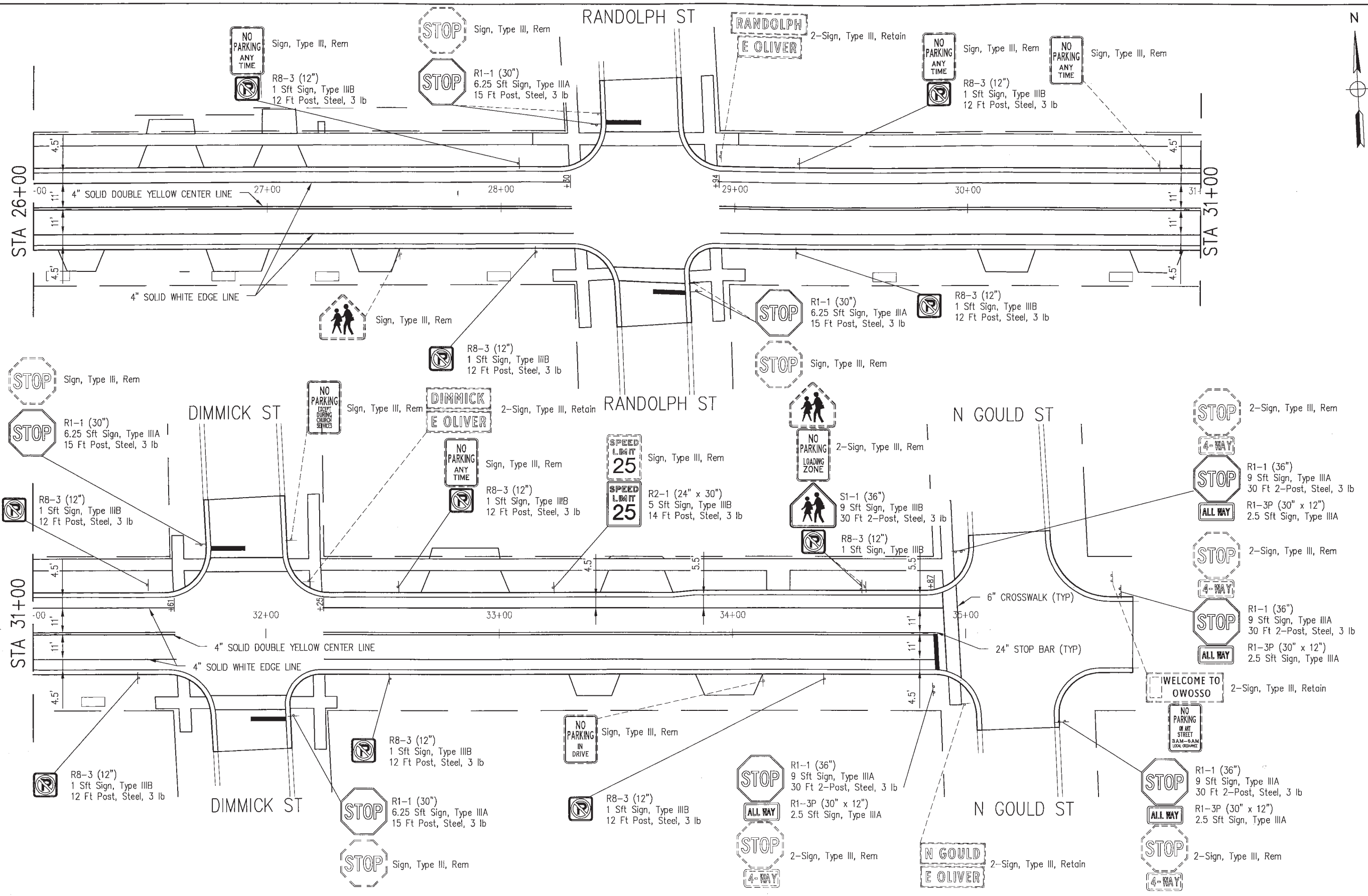


SGI PROJECT NO: 123558SG2016  
DATE: SEPTEMBER, 2017  
FILE: BP\_SIGN.DWG

CS: STUL 76421  
JN: 133015A

PAVEMENT MARKING AND SIGNING		DRAWING SHEET
E OLIVER STREET		SIGN 1 25
STA 17+41.80 (POB) TO STA 26+00		



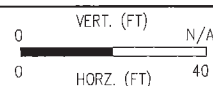


9/12/2017 4:39 PM allenjp

FINAL PLAN REVISIONS			
NO.	DATE	AUTH	DESCRIPTION



**SAGINAW OFFICE**  
 230 S. Washington Ave.  
 Saginaw, MI 48607  
 Tel. 989-754-4717  
 Fax. 989-754-4440  
 www.SpicerGroup.com



SGI PROJECT NO: 123558SG2016  
 DATE: SEPTEMBER, 2017  
 FILE: BP\_SIGN.DWG

CS: STUL 76421  
 JN: 133015A

PAVEMENT MARKING AND SIGNING  
 E OLIVER STREET  
 STA 26+00 TO STA 35+71.72 (POE)

DRAWING SHEET  
 SIGN2 2 26

BENCH MARK DATA

ELEV.	DESCRIPTION	DATE	BY

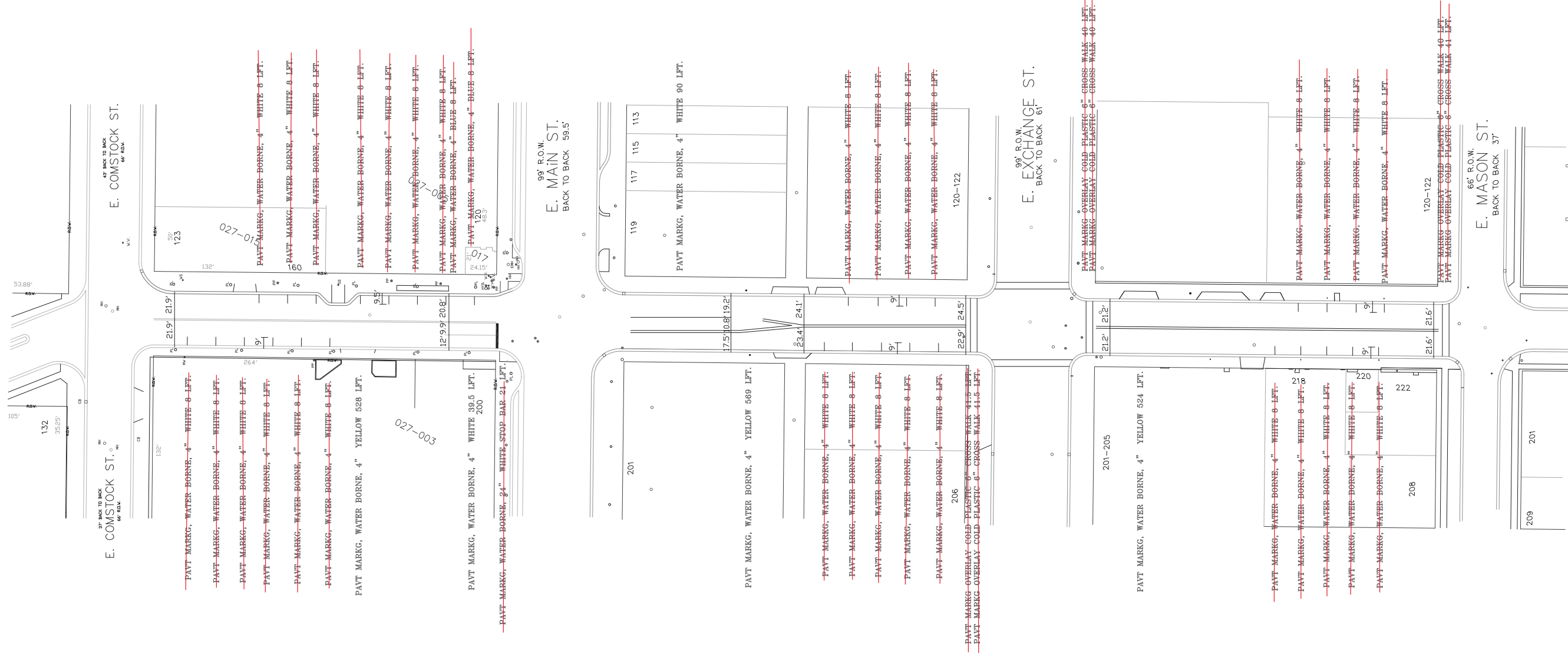
NO.	REVISIONS	DATE	BY

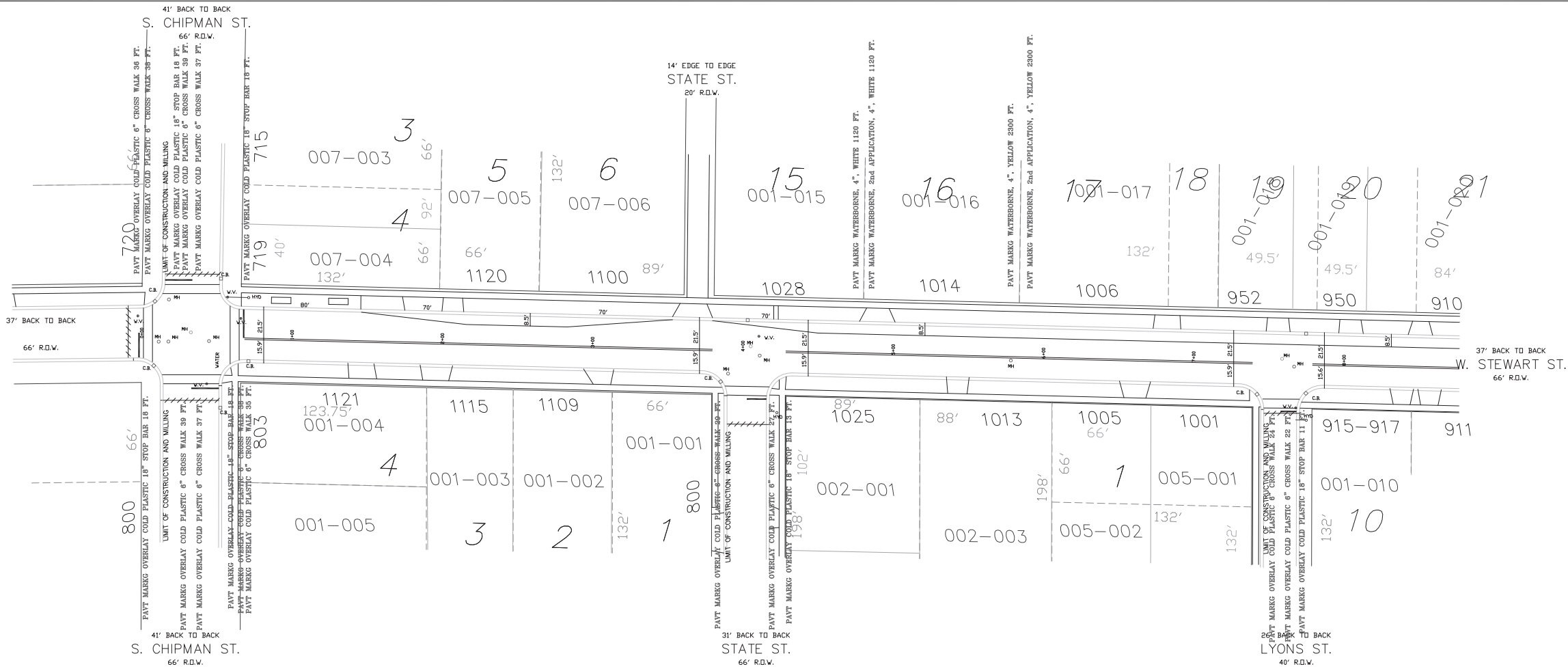
CHECKED BY	APPROVED BY

QUANTITIES FOR PARK STREET

PAVT MARKG, WATERBORNE, 24" WHITE, STOP BAR	21 FT.
PAVT MARKG, OVERLAY-COLD PLASTIC 8" CROSS WALK	244 FT.
PAVT MARKG, WATERBORNE, 4", WHITE	409.5 FT.
PAVT MARKG, WATERBORNE, 4", BLUE	10 FT.
PAVT MARKG, WATERBORNE, 4", YELLOW	2030 FT.

REFRESH EXISTING PAVEMENT MARKINGS

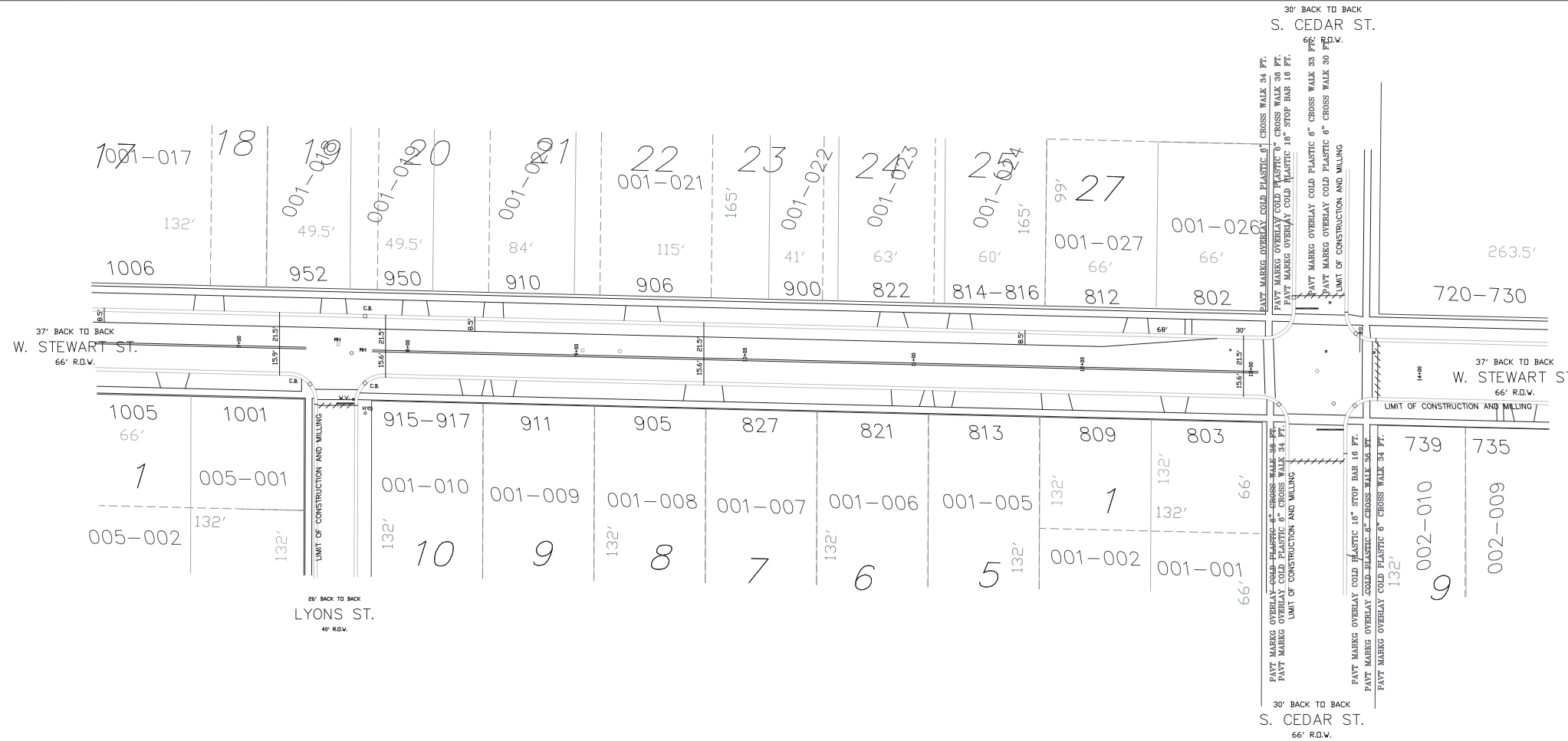




QUANTITIES FOR STEWART STREET

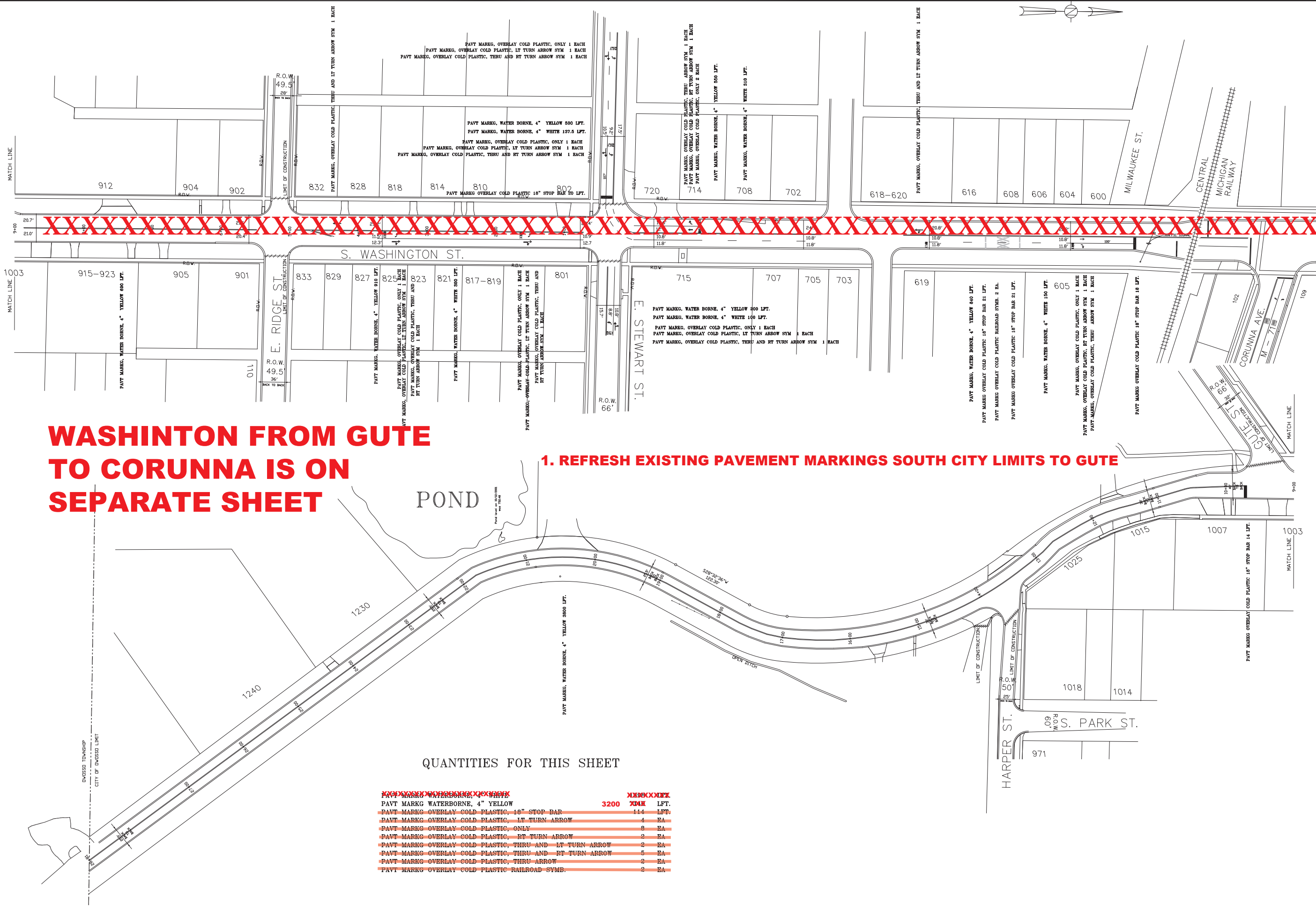
8110085	PAVT MARKG, OVERLAY COLD PLASTIC, 6", CROSS WALK	650 FT.
8110089	PAVT MARKG, OVERLAY COLD PLASTIC, 18", STOP BAR	188 FT.
8110110	PAVT MARKG WATERBORNE, 4", WHITE	1120 FT.
8110111	PAVT MARKG WATERBORNE, 4", YELLOW	2300 FT.

**REFRESH EXISTING PAVEMENT MARKINGS**



REVISIONS	DATE	BY

BENCH MARK DATA	DESCRIPTION
ELEV.	



**WASHINGTON FROM GUTE  
TO CORUNNA IS ON  
SEPARATE SHEET**

**1. REFRESH EXISTING PAVEMENT MARKINGS SOUTH CITY LIMITS TO GUTE**

**QUANTITIES FOR THIS SHEET**

<del>PAVT MARKG WATERBORNE, 4" YELLOW</del>	<del>3200</del>	<del>YD</del>	<del>XXXX</del>	<del>LFT.</del>
PAVT MARKG WATERBORNE, 4" YELLOW	3200	YD	XXXX	LFT.
PAVT MARKG OVERLAY COLD PLASTIC, 18" STOP BAR	114			LFT.
PAVT MARKG OVERLAY COLD PLASTIC, LT TURN ARROW	4			EA
PAVT MARKG OVERLAY COLD PLASTIC, ONLY	9			EA
PAVT MARKG OVERLAY COLD PLASTIC, RT TURN ARROW	9			EA
PAVT MARKG OVERLAY COLD PLASTIC, THRU AND LT TURN ARROW	9			EA
PAVT MARKG OVERLAY COLD PLASTIC, THRU AND RT TURN ARROW	5			EA
PAVT MARKG OVERLAY COLD PLASTIC, THRU ARROW	9			EA
PAVT MARKG OVERLAY COLD PLASTIC RAILROAD SYMB.	9			EA

CITY OF OWOSSO, MICHIGAN  
ENGINEERING DIVISION  
DEPT. OF PUBLIC SERVICE  
SCALE:

NO.	REVISIONS	DATE	BY

ELEV.	BENCH MARK DATA	DESCRIPTION

STREET MARKING 2016  
S. WASHINGTON STREET  
PAVEMENT MARKING  
PROJECT NO. SHEET 1 OF 1 FIELD BOOK PG.

CHECKED BY: ORIGINAL PLAN  
APPROVED BY:

BENCH MARK #1 ELEV=740.93  
SET PK NAIL W SIDE UTILITY POLE E SIDE S WASHINGTON S OF BLDG 1003

BENCH MARK #2 ELEV=745.12  
SET PK NAIL E SIDE UTILITY POLE NW CORNER OF S WASHINGTON & W RIDGE

BENCH MARK #3 ELEV=740.19  
PK NAIL W SIDE UTILITY POLE SE CORNER OF S WASHINGTON & E STEWART

BENCH MARK #4 ELEV=739.50  
PK NAIL W SIDE UTILITY POLE SE CORNER OF S WASHINGTON & MONROE

BENCH MARK #5 ELEV=740.09  
PK NAIL W SIDE UTILITY POLE W SIDE S WASHINGTON 35' S OF CL M-71 EXTENDED

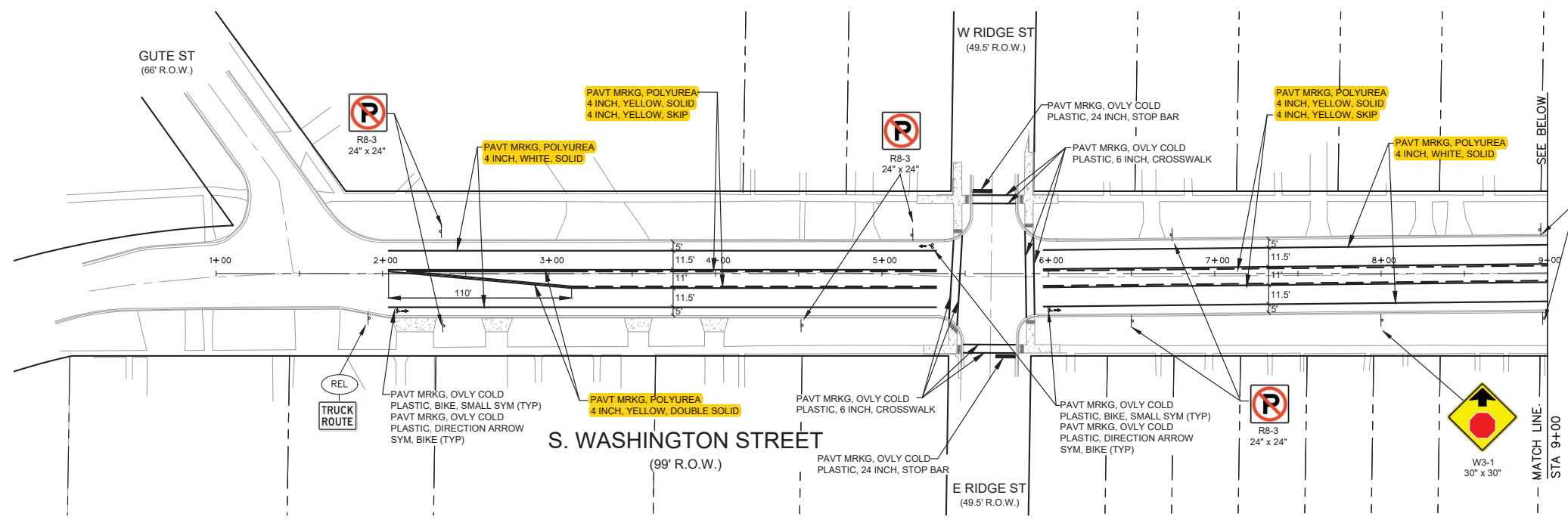


**RECORD DRAWING**

CONTRACTOR: CRAWFORD CONTRACTING  
DESIGNED BY: Eng., Inc.  
INSPECTED BY: CHRIS HARRINGTON (Eng., Inc.)  
DATE CONSTRUCTED: JUNE 2019 - OCTOBER 2019  
RECORD DRAWINGS BY: Eng., Inc.  
BASED ON AS-BUILT SURVEY AND FIELD INFORMATION FROM Eng., Inc.

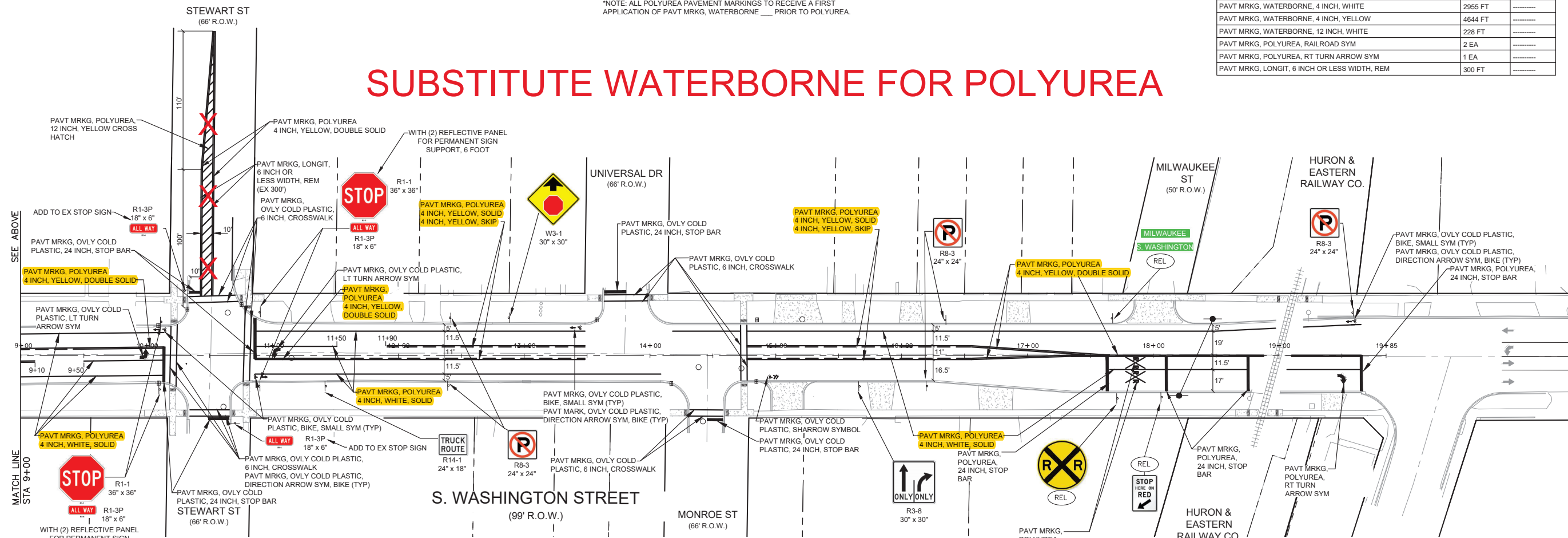
QUANTITIES THIS SHEET - SHEET 9

ITEM DESCRIPTION	CAT 001 QUANTITY	CAT 003 QUANTITY
POST, STEEL, 3 LB	358 FT	-----
SIGN, TYPE III, ERECT, SALV	4 EA	-----
SIGN, TYPE IIIA	108 SFT	-----
SIGN, TYPE IIIB	6.25 SFT	-----
REFLECTIVE PANEL FOR PERMANENT SIGN SUPPORT, 6 FOOT	8 EA	-----
PAVT MRKG, OVLY COLD PLASTIC, 6 INCH, CROSSWALK	874 FT	-----
PAVT MRKG, OVLY COLD PLASTIC, 24 INCH, STOP BAR	145 FT	-----
PAVT MRKG, OVLY COLD PLASTIC, DIRECTION ARROW SYM, BIKE	7 EA	-----
PAVT MRKG, OVLY COLD PLASTIC, BIKE, SMALL SYM	7 EA	-----
PAVT MRKG, OVLY COLD PLASTIC, LT TURN ARROW SYM	2 EA	-----
PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYMBOL	1 EA	-----
PAVT MRKG, POLYUREA, 4 INCH, WHITE	2955 FT	-----
PAVT MRKG, POLYUREA, 4 INCH, YELLOW	4644 FT	-----
PAVT MRKG, POLYUREA, 12 INCH CROSS HATCHING, YELLOW	300 FT	-----
PAVT MRKG, POLYUREA, 24 INCH, STOP BAR	114 FT	-----
PAVT MRKG, WATERBORNE, 4 INCH, WHITE	2955 FT	-----
PAVT MRKG, WATERBORNE, 4 INCH, YELLOW	4644 FT	-----
PAVT MRKG, WATERBORNE, 12 INCH, WHITE	228 FT	-----
PAVT MRKG, POLYUREA, RAILROAD SYM	2 EA	-----
PAVT MRKG, POLYUREA, RT TURN ARROW SYM	1 EA	-----
PAVT MRKG, LONGIT, 6 INCH OR LESS WIDTH, REM	300 FT	-----



\*NOTE: ALL POLYUREA PAVEMENT MARKINGS TO RECEIVE A FIRST APPLICATION OF PAVT MRKG, WATERBORNE \_\_\_ PRIOR TO POLYUREA.

**SUBSTITUTE WATERBORNE FOR POLYUREA**



**PAVEMENT MARKING & PERMANENT SIGNING**  
P.O.B. STA 1+75 TO P.O.E. STA 19+85

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	8-5-20	DCD	RECORD DRAWING

4063 Grand Oak Drive Suite A109  
Lansing, MI 48911  
517.887.1100

16930 Robbins Road Suite 105  
Grand Haven, MI 49417  
616.743.7070  
engdot.com



CITY OF OWOSSO  
WASHINGTON STREET  
FROM GUTE STREET TO M-71 (CORUNNA AVENUE)

PROJECT NO.  
**18009**

SHEET NO.  
**9 OF 10**