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Planning - Engineering

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REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**ROADWAY  
SECTION  
DETAILS-  
EVERGREEN RD**

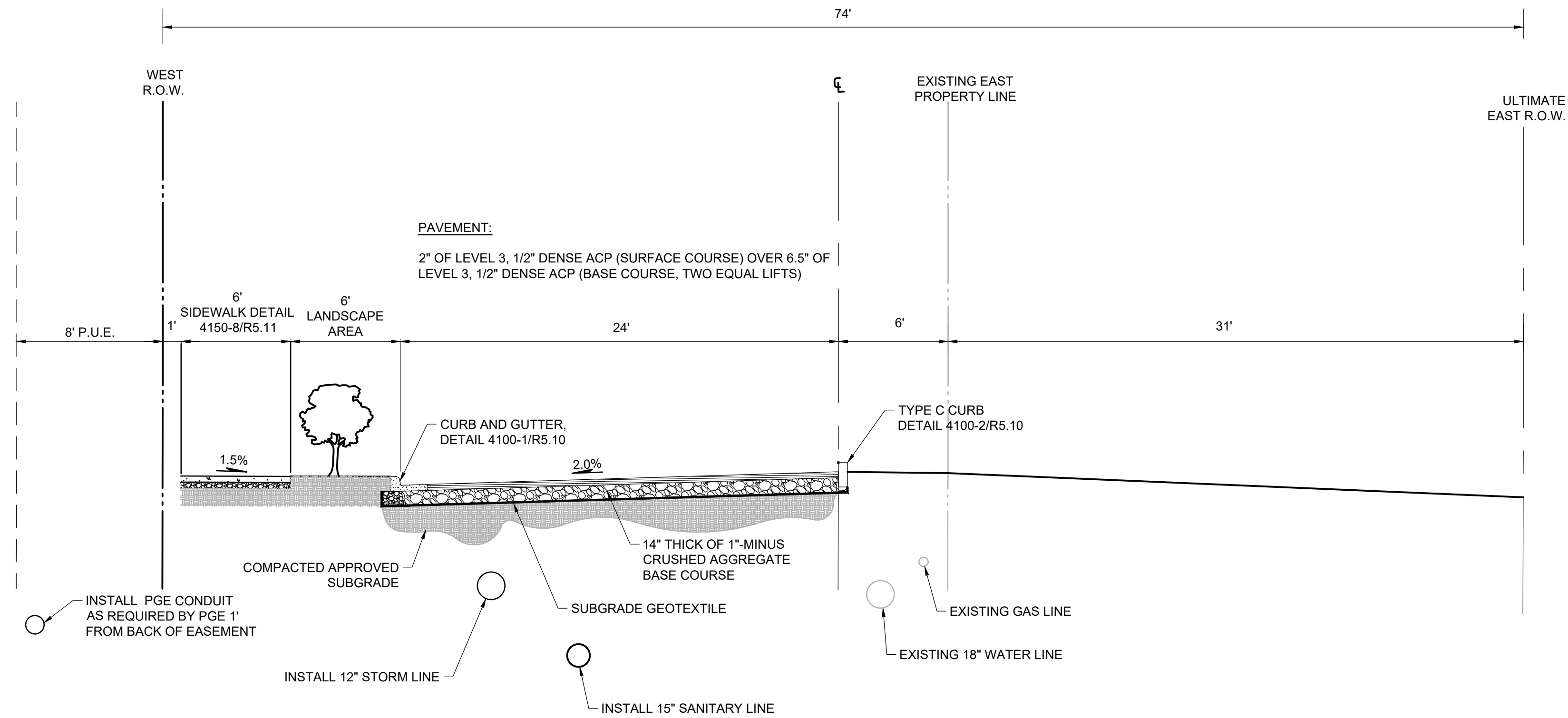
DRAWN BY: TP

CHECKED BY: RJH

SHEET:

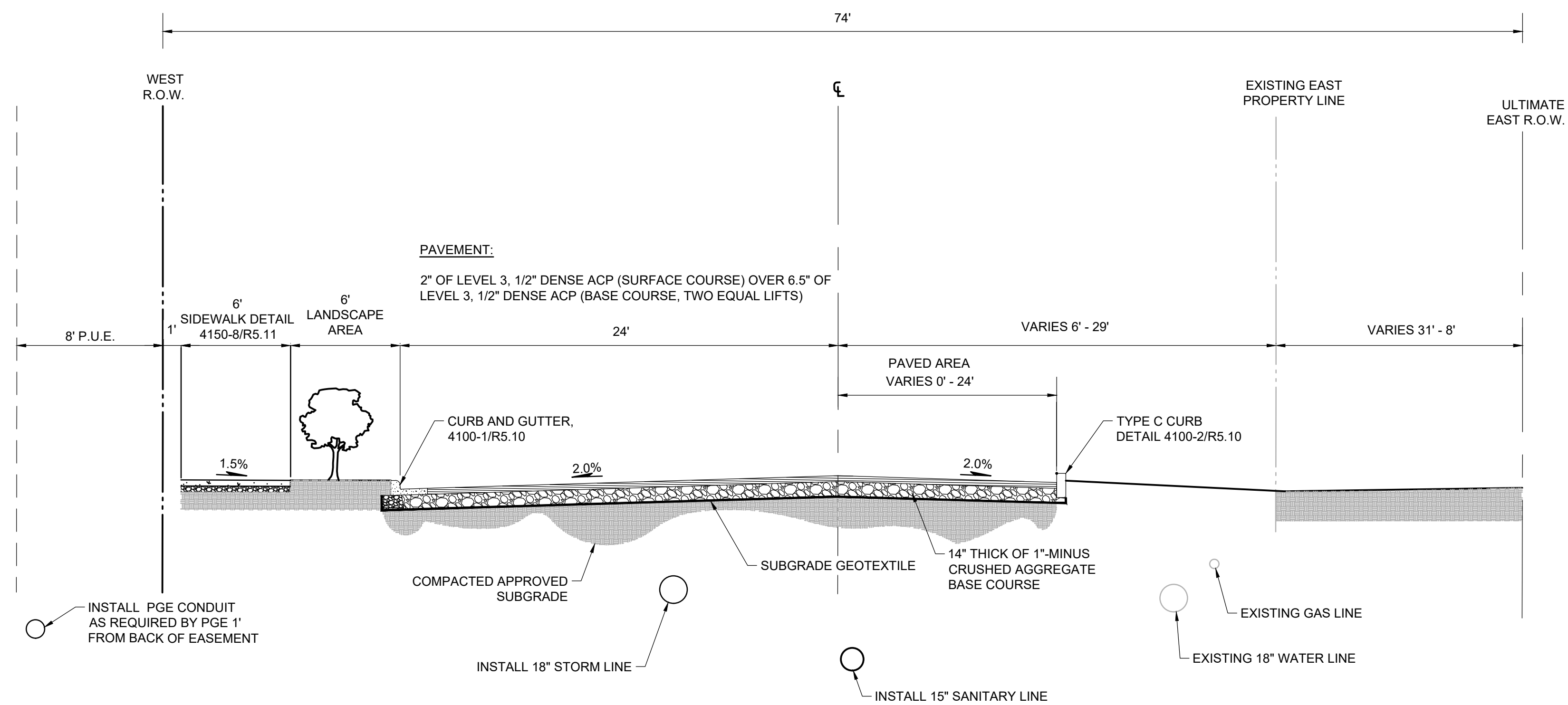
**R0.12**

JOB NO.  
**2220085.00**



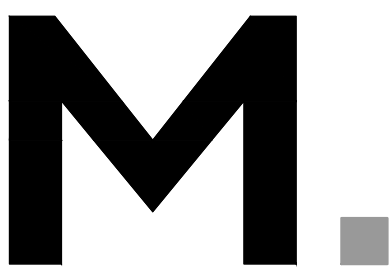
NOTE:  
REFER TO WEISZ GEOTECHNICAL REPORT BY NV5, DATED MAY 11, 2022 FOR ADDITIONAL INFORMATION

**1 EVERGREEN RD - PROPOSED**  
R0.12 STA = START TO 15+59.5 1:5



NOTE:  
REFER TO WEISZ GEOTECHNICAL REPORT BY NV5, DATED MAY 11, 2022 FOR ADDITIONAL INFORMATION

**2 EVERGREEN RD - PROPOSED**  
R0.12 STA = 15+59.5 TO 18+78.04 1:5



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REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**ROADWAY  
SECTION  
DETAILS-  
EVERGREEN RD**

DRAWN BY: TP

CHECKED BY: RJH

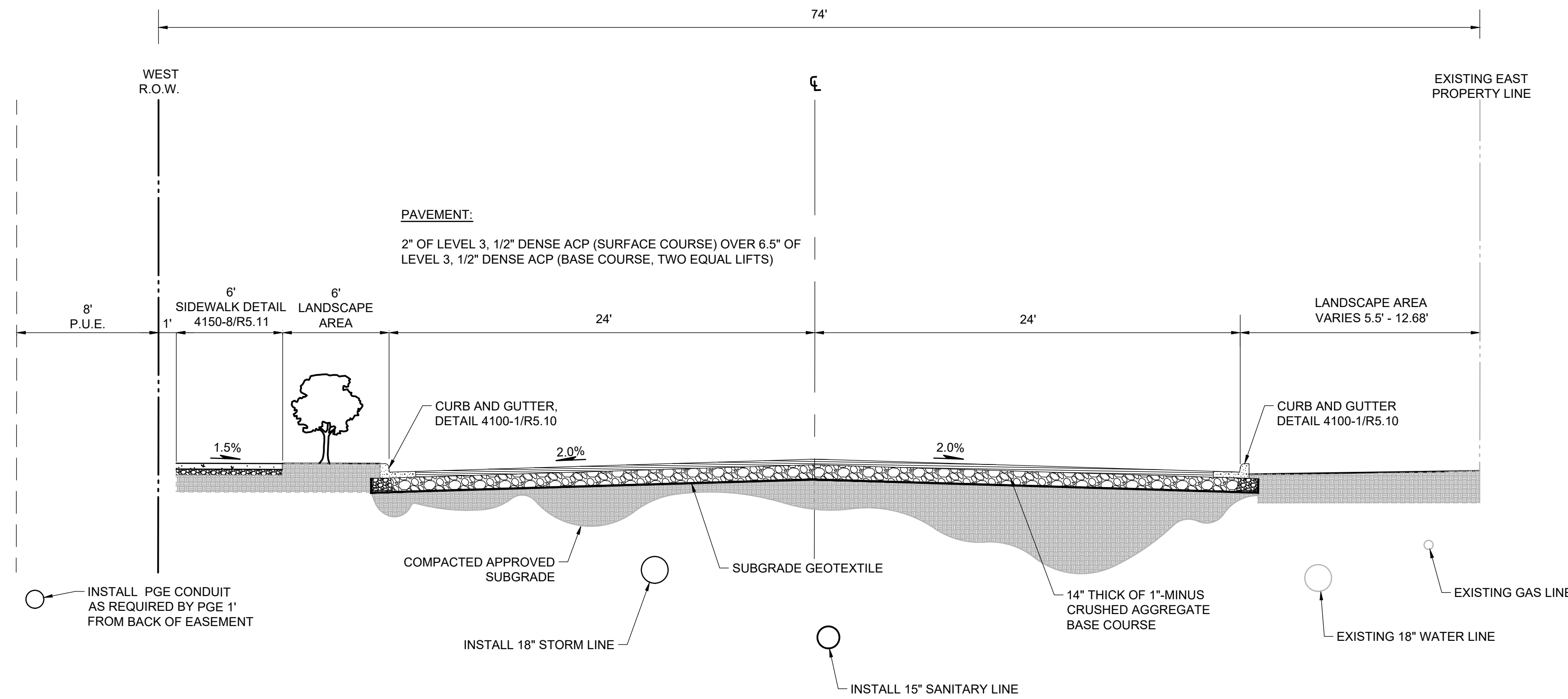
SHEET:

**R0.13**

JOB NO.  
**2220085.00**

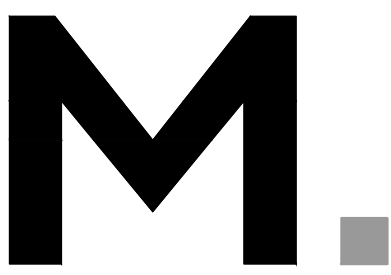
PLANNING COMMISSION DISTRIBUTION SET 12/20/22

222008500\DRAWINGS\CIVIL\PUBLIC\085-R0.13.DWG:3042 TP 12/07/22 08:06 1:5.00



NOTE:  
REFER TO WEISZ GEOTECHNICAL REPORT BY NV5, DATED MAY 11, 2022 FOR ADDITIONAL INFORMATION

**1** EVERGREEN RD - PROPOSED  
R0.13 STA = 18+78.04 TO END 1:5



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Delta	Issued As	Issue Date

SHEET TITLE:  
**ROADWAY  
SECTION  
DETAIL -  
INDUSTRIAL RD**

DRAWN BY: TP

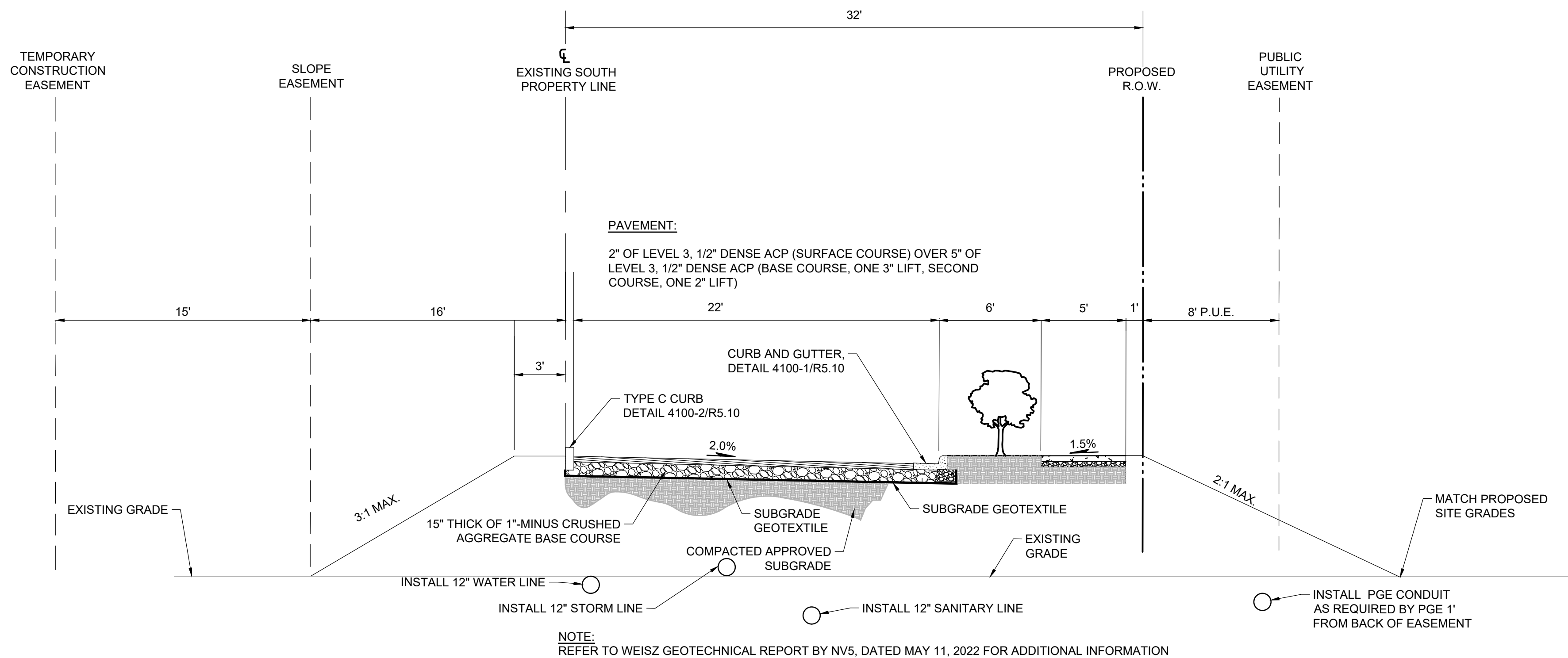
CHECKED BY: RJH

SHEET:

**R0.14**

JOB NO. **2220085.00**

**1** DETAIL NOT USED  
R0.14 STA = START TO 50+63.32 1:5

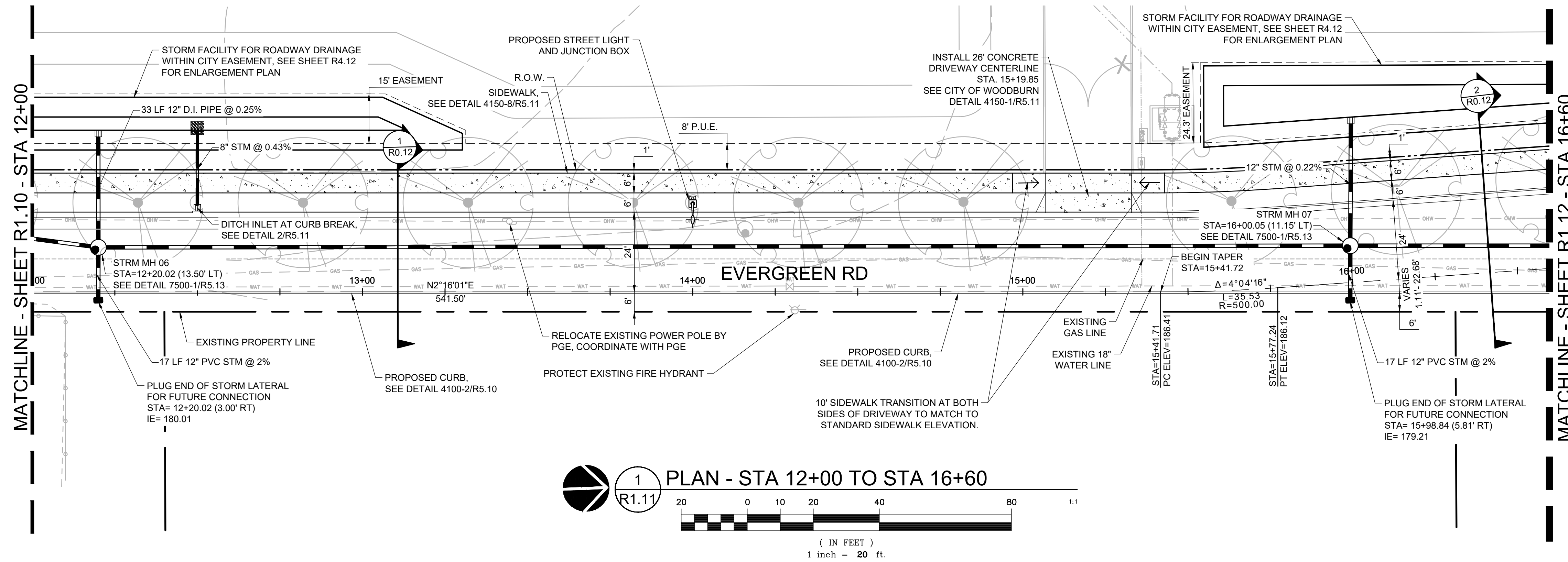


**2** INDUSTRIAL RD - PROPOSED  
R0.14 STA = 29+97 TO END 1:5









**1 PLAN - STA 12+00 TO STA 16+60**  
 ( IN FEET )  
 1 inch = 20 ft.

**TREE TABLE**

ALIGNMENT	STATION	OFFSET	CALIPER	SPECIES
EVERGREEN RD	12+30	27' L	2"	ACCOLADE ELM
EVERGREEN RD	12+80	27' L	2"	ACCOLADE ELM
EVERGREEN RD	13+30	27' L	2"	ACCOLADE ELM
EVERGREEN RD	13+80	27' L	2"	ACCOLADE ELM
EVERGREEN RD	14+30	27' L	2"	ACCOLADE ELM
EVERGREEN RD	14+80	27' L	2"	ACCOLADE ELM
EVERGREEN RD	15+64	26.5' L	2"	ACCOLADE ELM
EVERGREEN RD	16+15	26.5' L	2"	ACCOLADE ELM



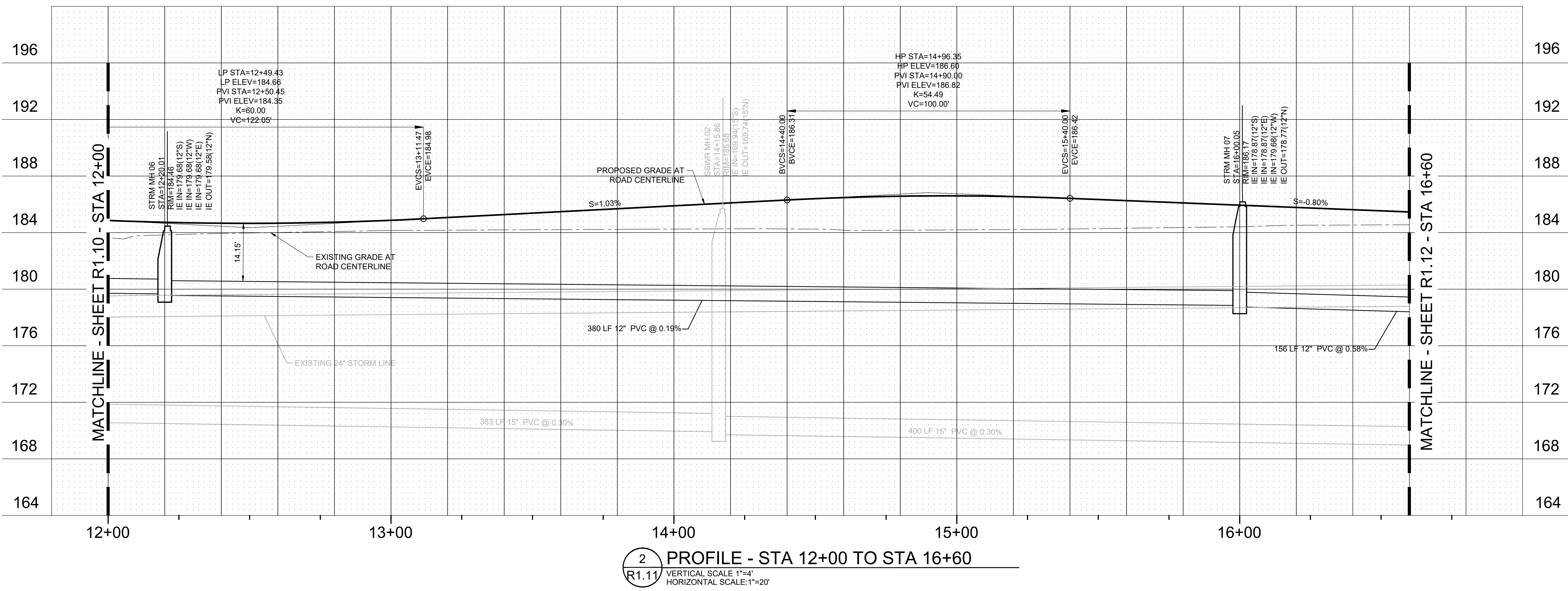
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**2 PROFILE - STA 12+00 TO STA 16+60**  
 VERTICAL SCALE 1"=4'  
 HORIZONTAL SCALE: 1"=20'



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**REVISION SCHEDULE**

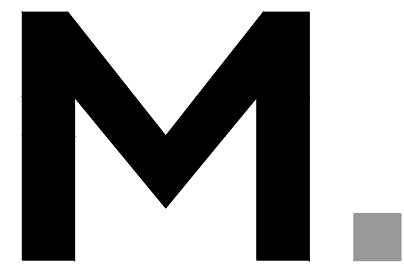
Delta	Issued As	Issue Date

SHEET TITLE:  
**EVERGREEN RD - STREET AND STORM - STA 12+00 TO STA 16+60**

DRAWN BY: TP  
 CHECKED BY: RJH  
 SHEET:

**R1.11**

JOB NO. **2220085.00**



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REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**EVERGREEN RD  
- STREET AND  
STORM - STA  
16+60 TO END**

DRAWN BY: TP  
CHECKED BY: RJH  
SHEET:

**R1.12**

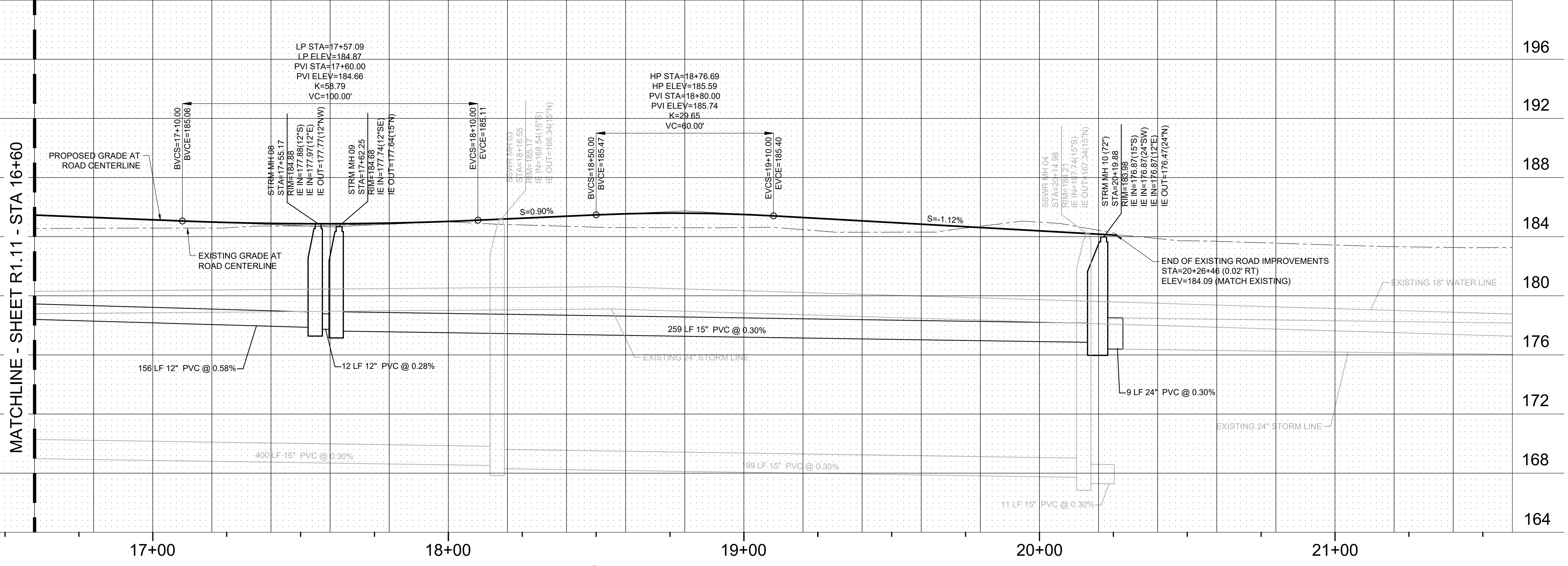
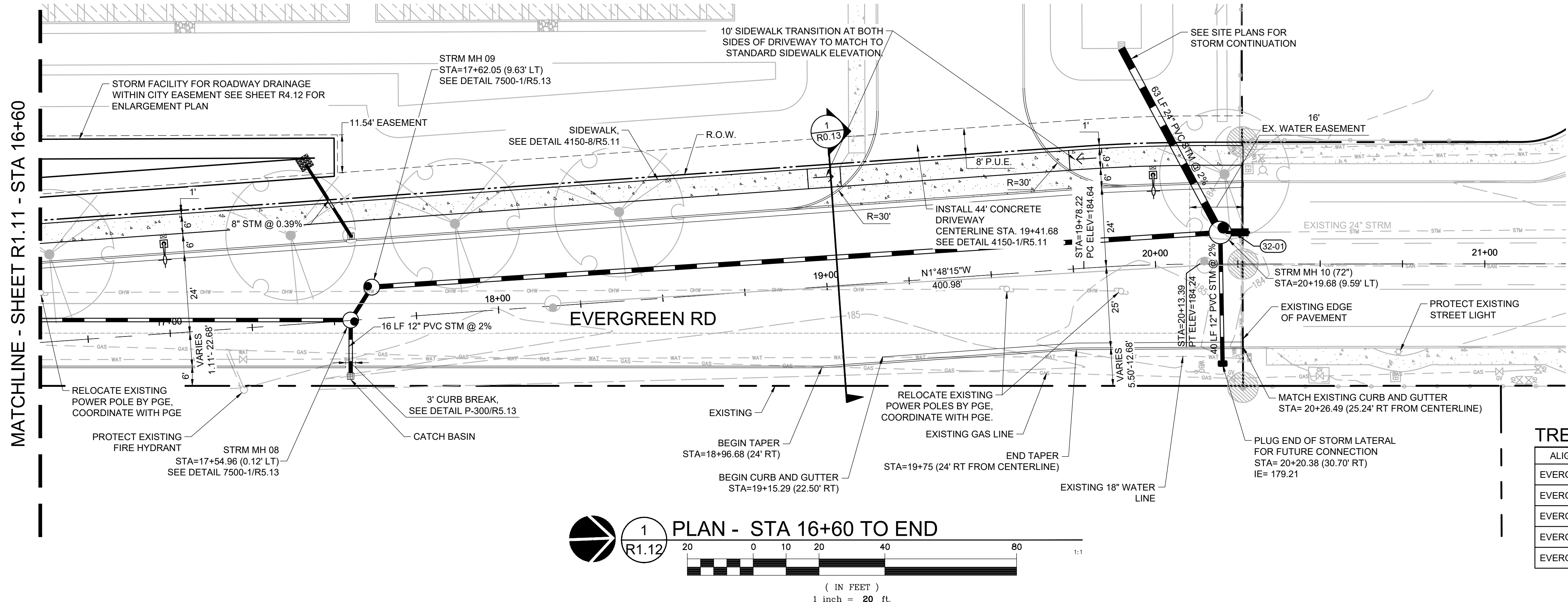
JOB NO  
**2220085.00**

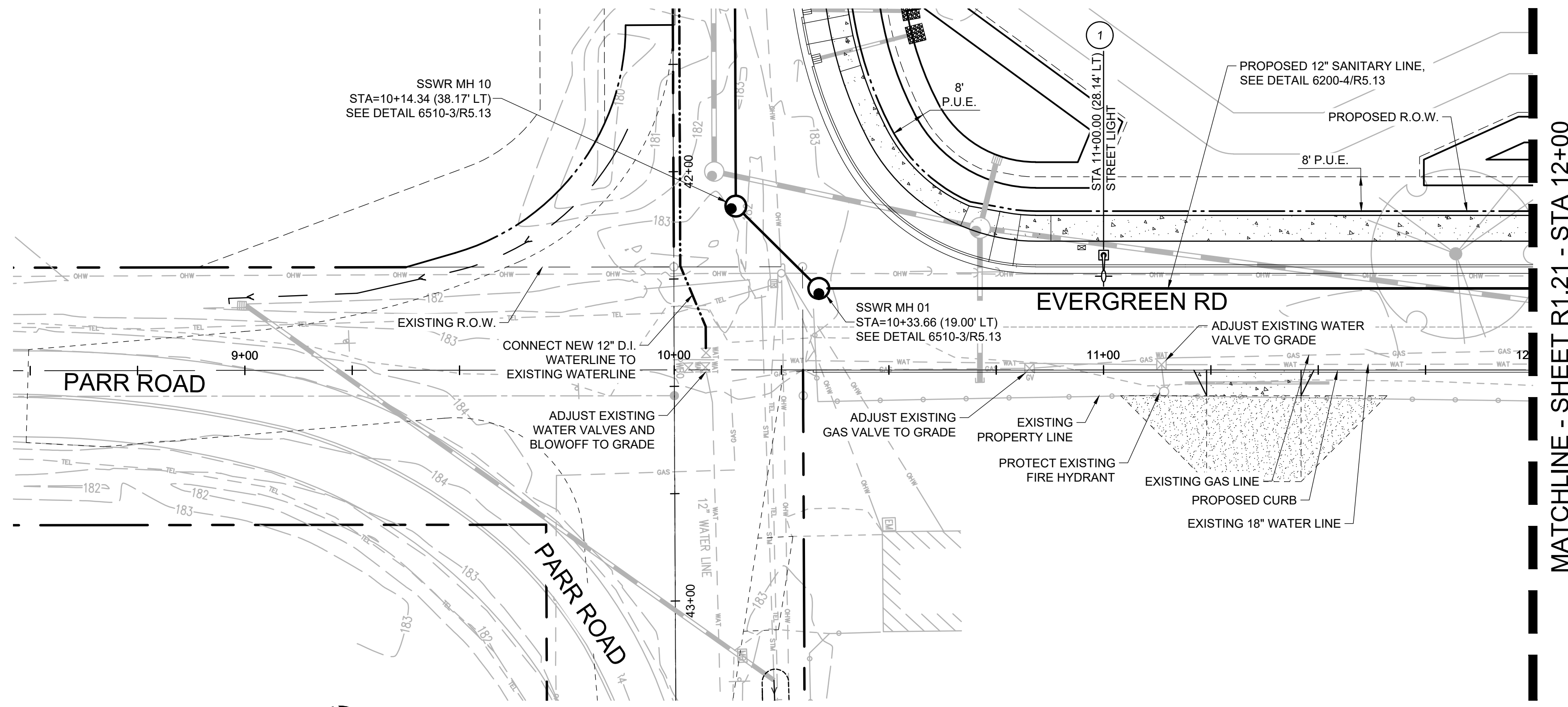
**KEYNOTES**

32-01 CONNECT TO EXISTING STORM AND EXTEND WITH SAME PIPE SIZE, SLOPE AND MATERIAL. CONTRACTOR TO POTHOLE AND VERIFY EXISTING STORM INFORMATION AT END OF PIPE PRIOR TO ORDERING MANHOLE.

**TREE TABLE**

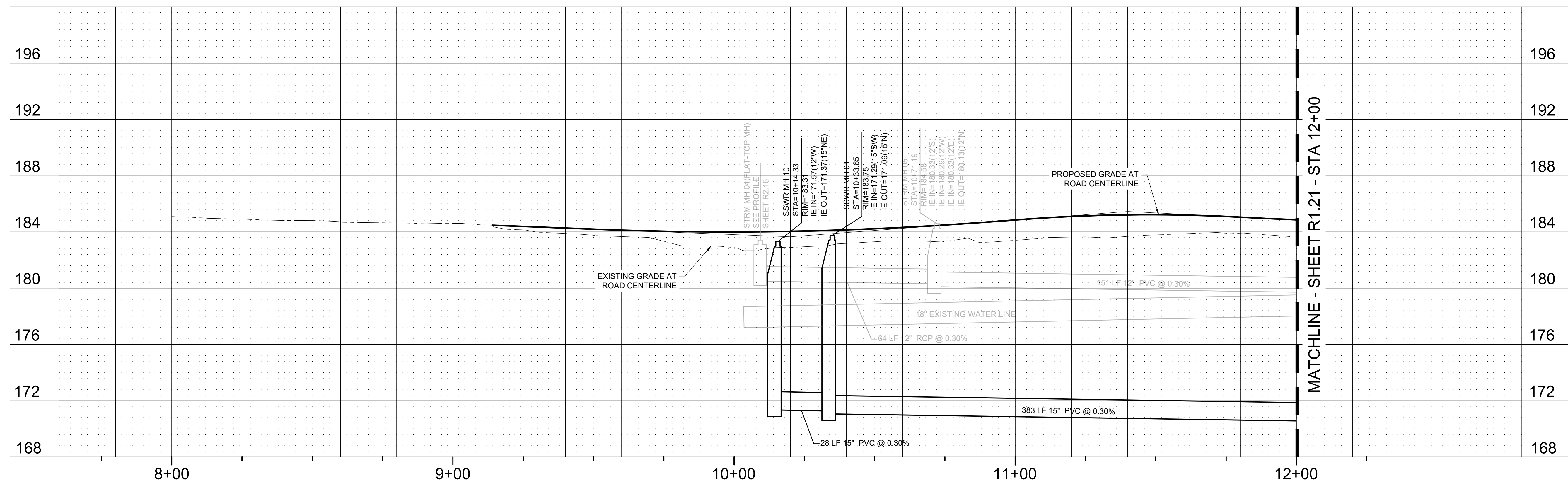
ALIGNMENT	STATION	OFFSET	CALIPER	SPECIES
EVERGREEN RD	16+65	26.5' L	2"	ACCOLADE ELM
EVERGREEN RD	17+38.5	27' L	2"	ACCOLADE ELM
EVERGREEN RD	17+88.5	27' L	2"	ACCOLADE ELM
EVERGREEN RD	18+38.5	27' L	2"	ACCOLADE ELM
EVERGREEN RD	20+21	27.5' L	2"	ACCOLADE ELM





**1** PLAN - START TO STA 12+00  
 ( IN FEET )  
 1 inch = 20 ft.

- ELECTRICAL KEYNOTES:**
- STREET LIGHT (SHAKESPEARE 30-FT COMPOSITE, 2-PIECE, SMOOTH FINISH, GRAY COLOR WITH 6-FOOT AL FINISH MAST ARM. PART NUMBERS: BHT3099S2BL9901 (TOP PIECE), 25-STUB-UP (STUB PIECE), OPAR-6 (MAST ARM). GCJ2-20H-MV-WW-2R-GY-700-PCR7-RWG-WL-FDC-PGE.



**2** PROFILE - START TO STA 12+00  
 VERTICAL SCALE: 1"=4'  
 HORIZONTAL SCALE: 1"=20'



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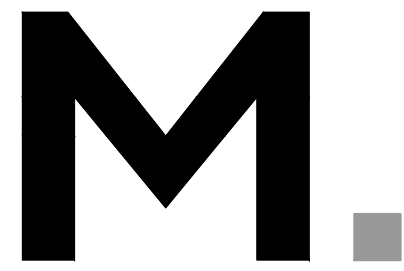
REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**EVERGREEN RD -  
 SANITARY,  
 WATER & STREET  
 LIGHTING - START  
 TO STA 12+00**

DRAWN BY: TP  
 CHECKED BY: RJH  
 SHEET:

**R1.20**

JOB NO  
**2220085.00**



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Delta	Issued As	Issue Date

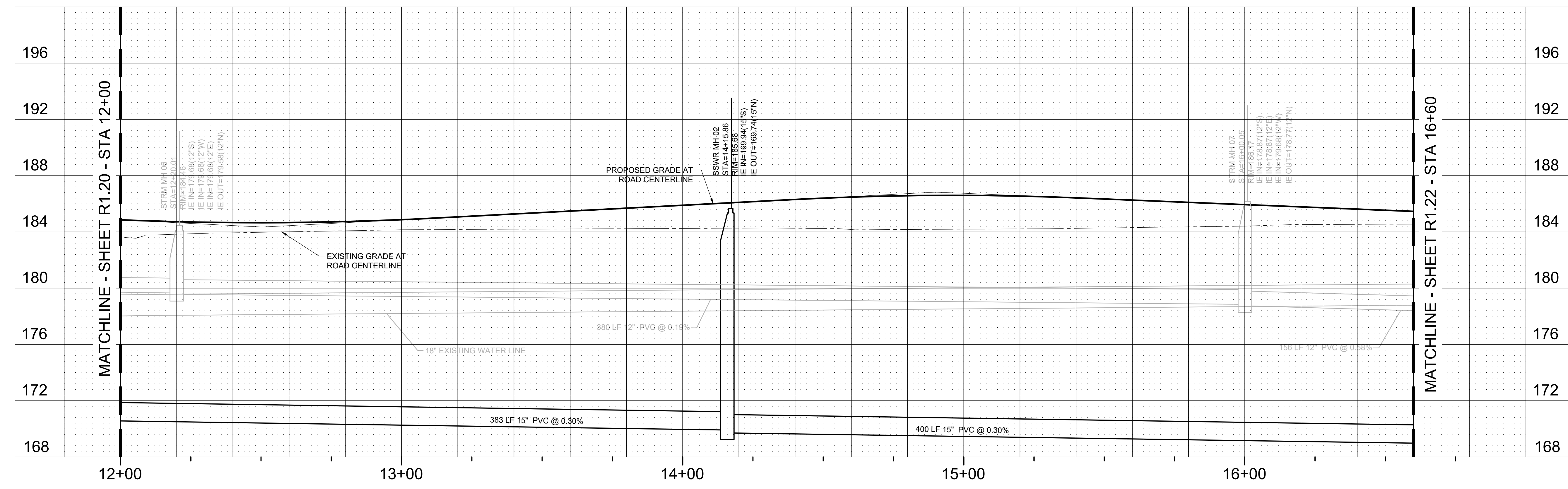
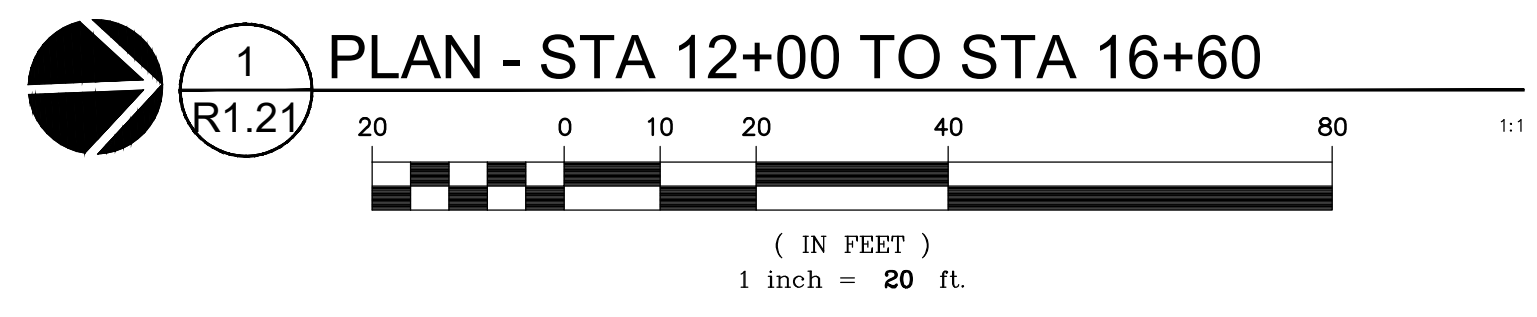
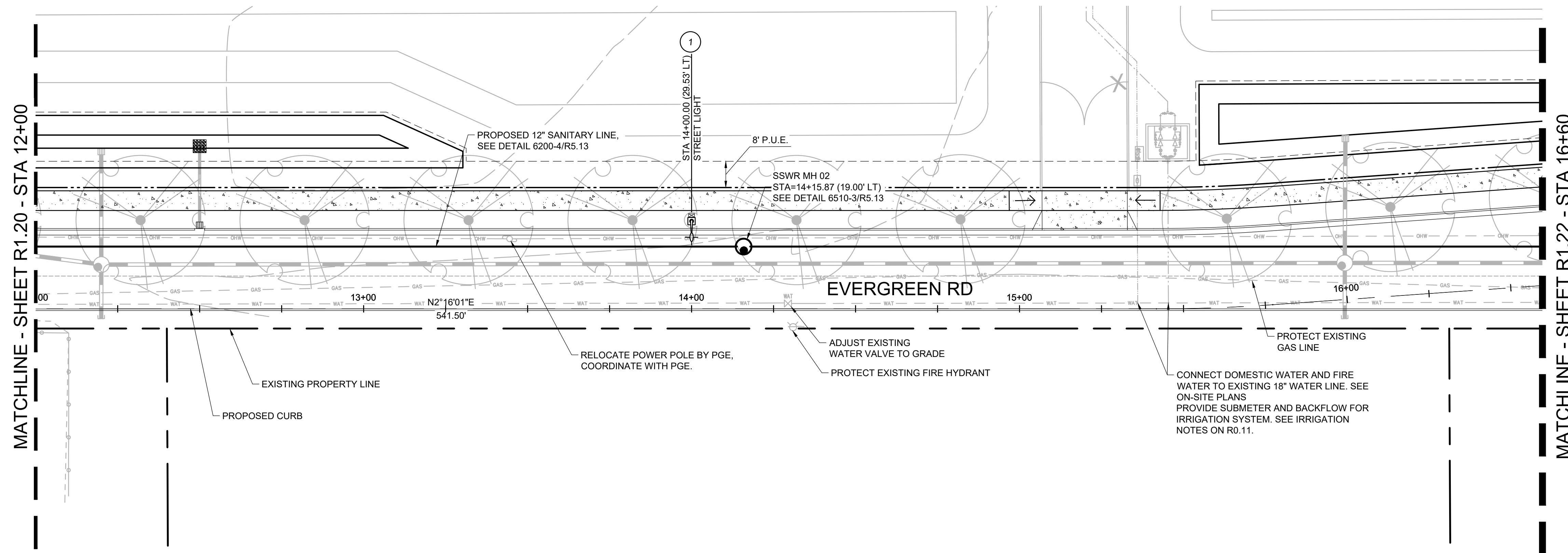
SHEET TITLE:  
**EVERGREEN RD  
- SANITARY  
AND WATER -  
STA 12+00 TO  
STA 16+60**

DRAWN BY: TP  
CHECKED BY: RJH  
SHEET:

**R1.21**

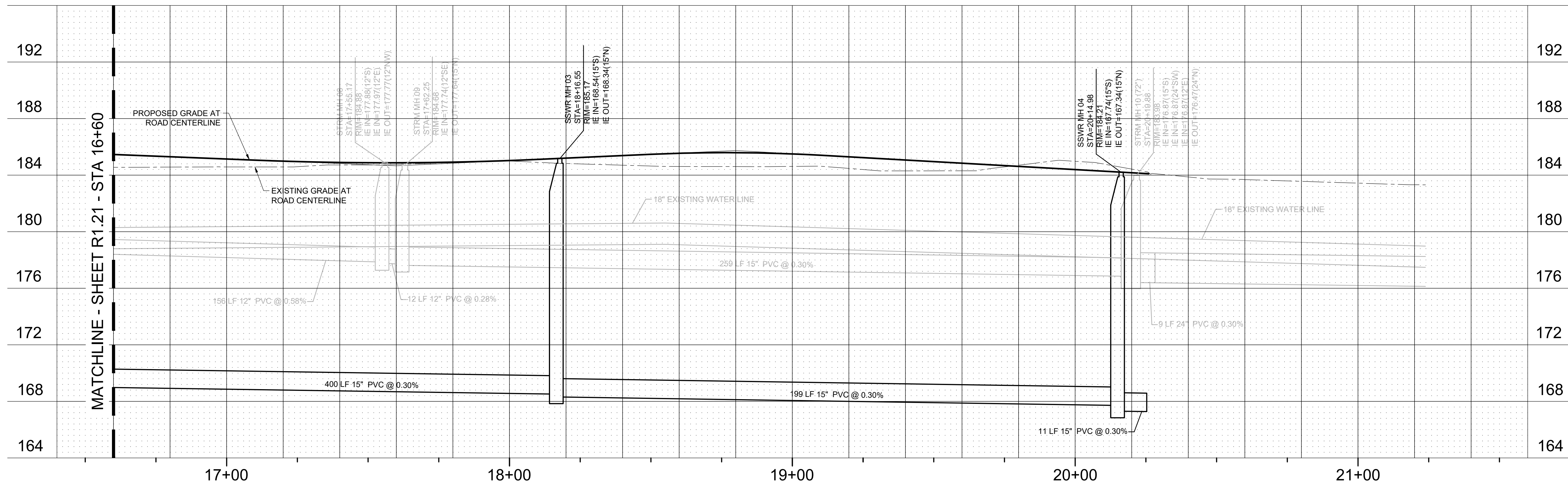
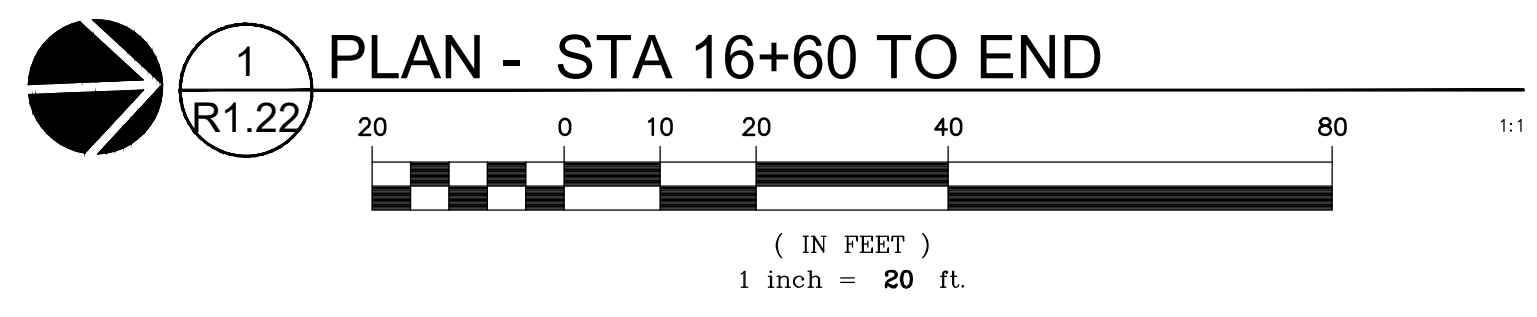
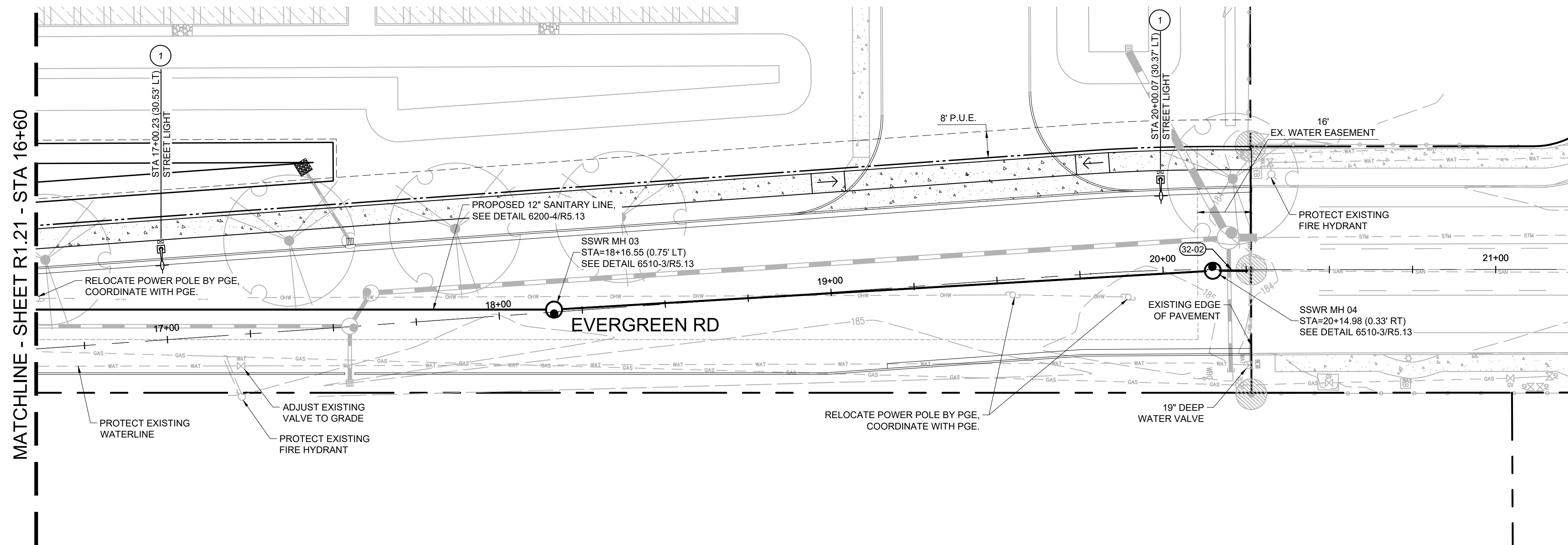
JOB NO.  
**2220085.00**

**ELECTRICAL KEYNOTES:**  
SEE SHEET R1.20 FOR KEYNOTES



**2 PROFILE - STA 12+00 TO STA 16+60**

VERTICAL SCALE: 1"=4'  
HORIZONTAL SCALE: 1"=20'



2  
R1.22 PROFILE - STA 16+60 TO END  
VERTICAL SCALE: 1"=4'  
HORIZONTAL SCALE: 1"=20'

KEYNOTES

32-02 CONNECT TO EXISTING SS AND EXTEND WITH SAME PIPE SIZE, SLOPE AND MATERIAL. CONTRACTOR TO POT-HOLE AND VERIFY EXISTING SS INFORMATION AT END OF PIPE PRIOR TO ORDERING MANHOLE.

ELECTRICAL KEYNOTES:

SEE SHEET R1.20 FOR KEYNOTES



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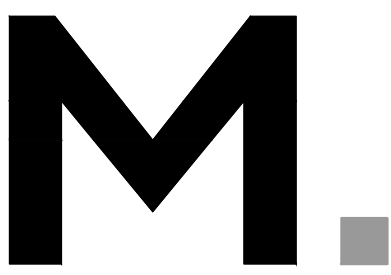
REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:  
**EVERGREEN RD  
- SANITARY  
AND WATER -  
STA 16+60 TO  
END**

DRAWN BY: TP  
CHECKED BY: RJH  
SHEET:

**R1.22**

JOB NO  
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Delta	Issued As	Issue Date

SHEET TITLE:  
**INDUSTRIAL RD  
- STREET AND  
STORM - STA  
26+75 TO STA  
31+75**

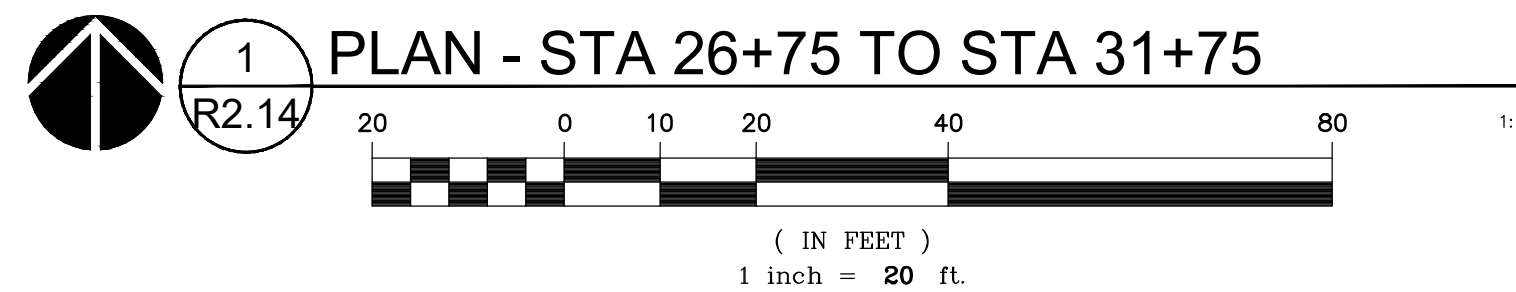
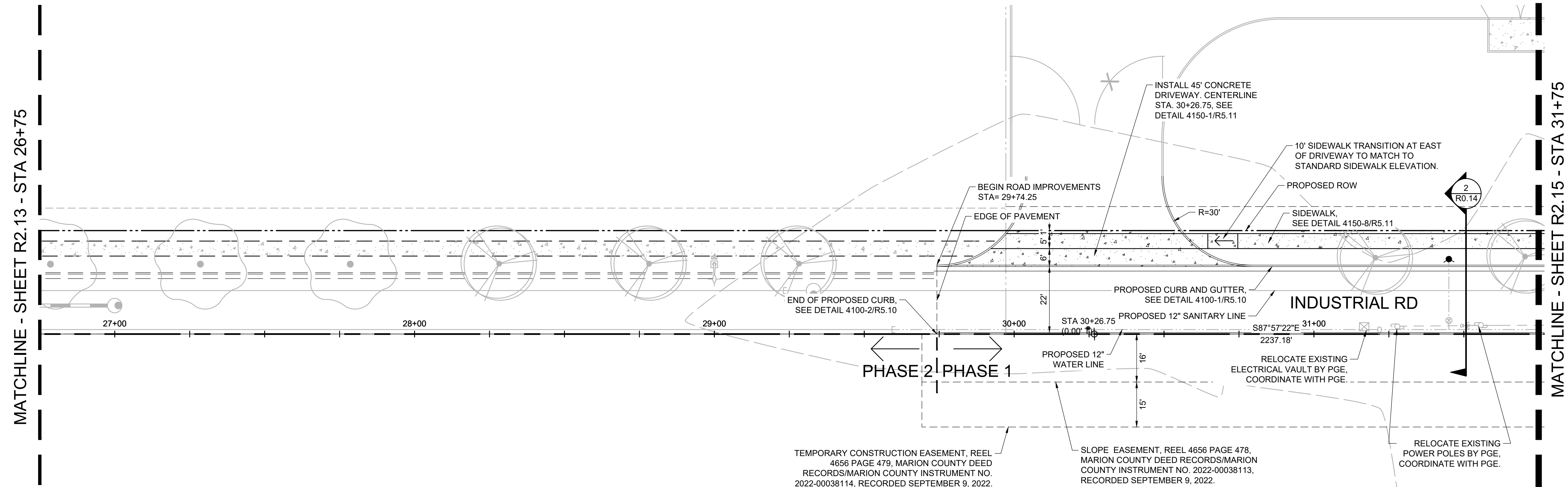
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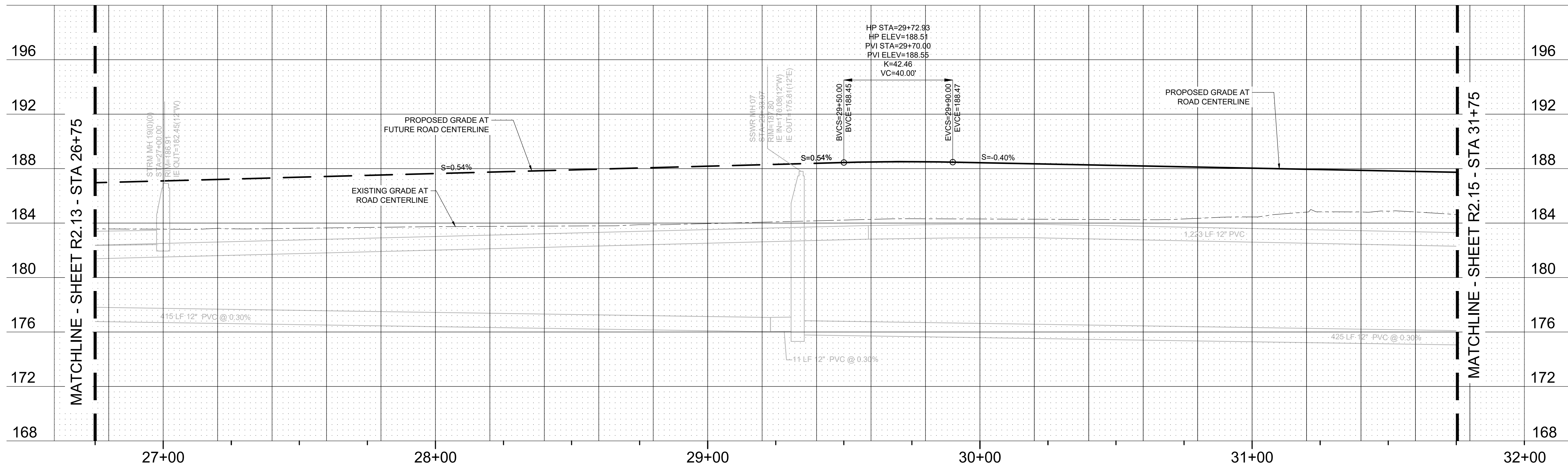
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JOB NO  
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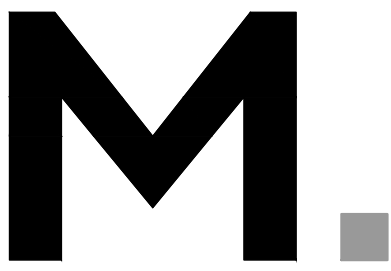


TREE TABLE

ALIGNMENT	STATION	OFFSET	CALIPER	SPECIES
INDUSTRIAL RD	31+20.5	25.5' L	2"	EUROPEAN HORNBEAM
INDUSTRIAL RD	31+70.5	25.5' L	2"	EUROPEAN HORNBEAM



2 PROFILE - STA 26+75 TO STA 31+75  
VERTICAL SCALE: 1"=4'  
HORIZONTAL SCALE: 1"=20'



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Delta	Issued As	Issue Date

SHEET TITLE:  
**INDUSTRIAL RD  
- STREET AND  
STORM - STA  
31+75 TO STA  
37+00**

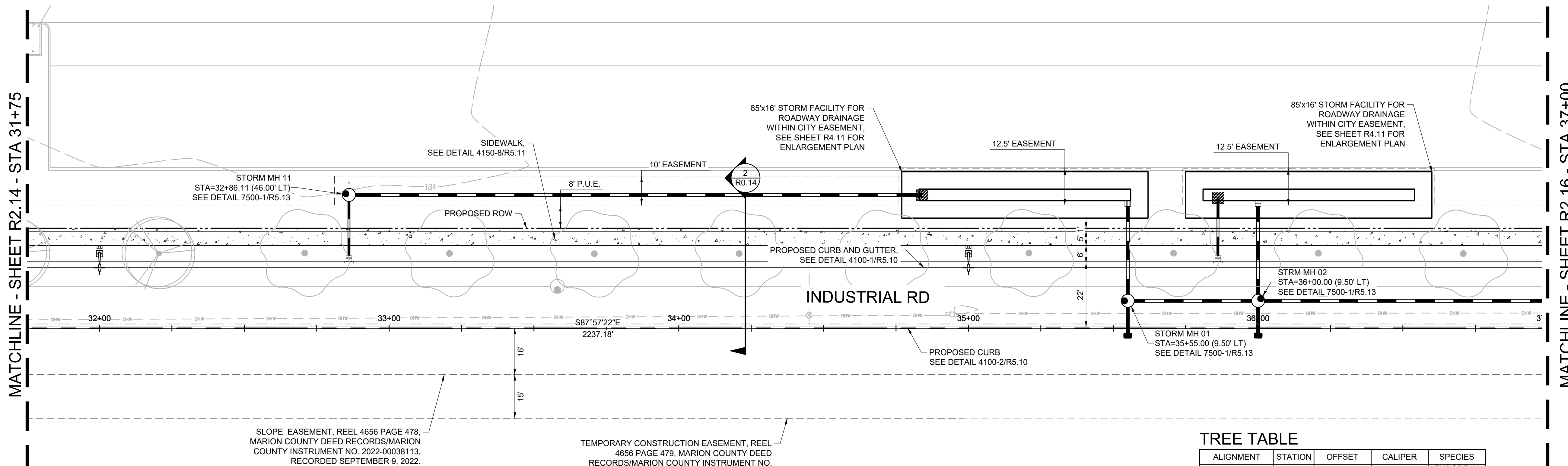
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SHEET:

**R2.15**

JOB NO. **2220085.00**

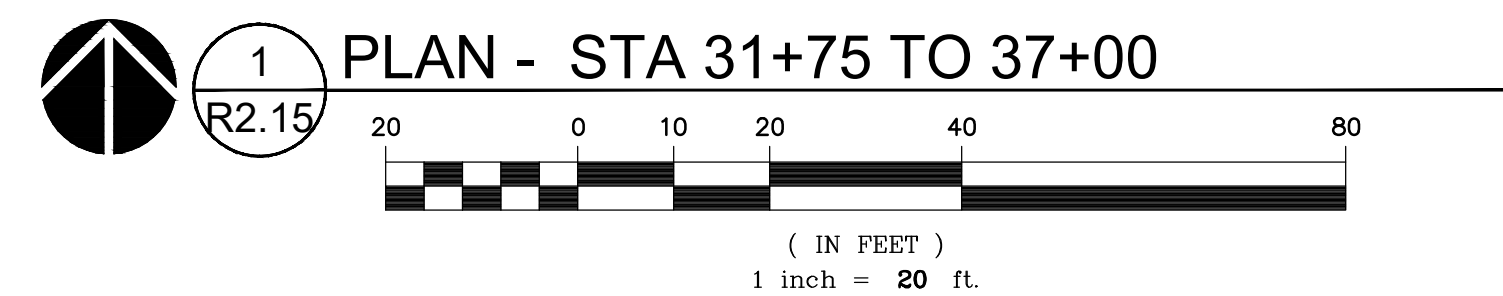
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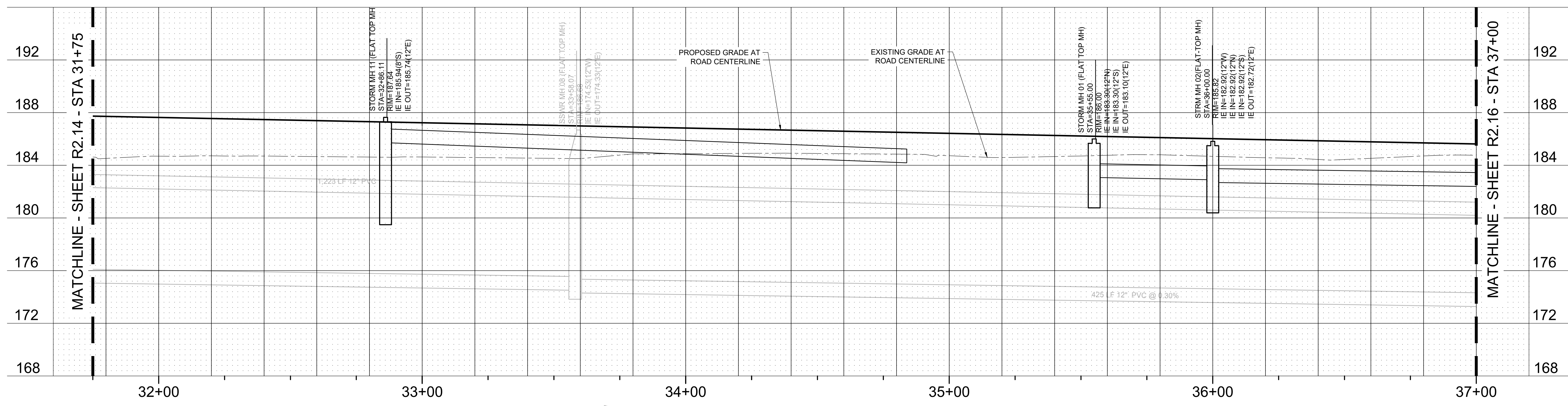
SLOPE EASEMENT, REEL 4856 PAGE 478, MARION COUNTY DEED RECORDS/MARION COUNTY INSTRUMENT NO. 2022-00038113, RECORDED SEPTEMBER 9, 2022.

TEMPORARY CONSTRUCTION EASEMENT, REEL 4856 PAGE 479, MARION COUNTY DEED RECORDS/MARION COUNTY INSTRUMENT NO. 2022-00038114, RECORDED SEPTEMBER 9, 2022.



**TREE TABLE**

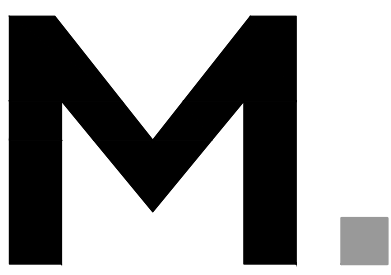
ALIGNMENT	STATION	OFFSET	CALIPER	SPECIES
INDUSTRIAL RD	32+21	25.5' L	2"	EUROPEAN HORNBEAM
INDUSTRIAL RD	32+71	25.5' L	2"	FRONTIER ELM
INDUSTRIAL RD	33+21	25.5' L	2"	FRONTIER ELM
INDUSTRIAL RD	33+71	25.5' L	2"	FRONTIER ELM
INDUSTRIAL RD	34+21	25.5' L	2"	FRONTIER ELM
INDUSTRIAL RD	34+71	25.5' L	2"	FRONTIER ELM
INDUSTRIAL RD	35+21	25.5' L	2"	FRONTIER ELM
INDUSTRIAL RD	35+71	25.5' L	2"	FRONTIER ELM
INDUSTRIAL RD	36+21	25.5' L	2"	FRONTIER ELM
INDUSTRIAL RD	36+71	25.5' L	2"	FRONTIER ELM



**2** PROFILE - STA 31+75 TO 37+00  
VERTICAL SCALE: 1"=4'  
HORIZONTAL SCALE: 1"=20'

MATCHLINE - SHEET R2.14 - STA 31+75

MATCHLINE - SHEET R2.16 - STA 37+00



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Delta	Issued As	Issue Date

SHEET TITLE:  
**INDUSTRIAL RD  
- STREET AND  
STORM - STA  
37+00 TO END**

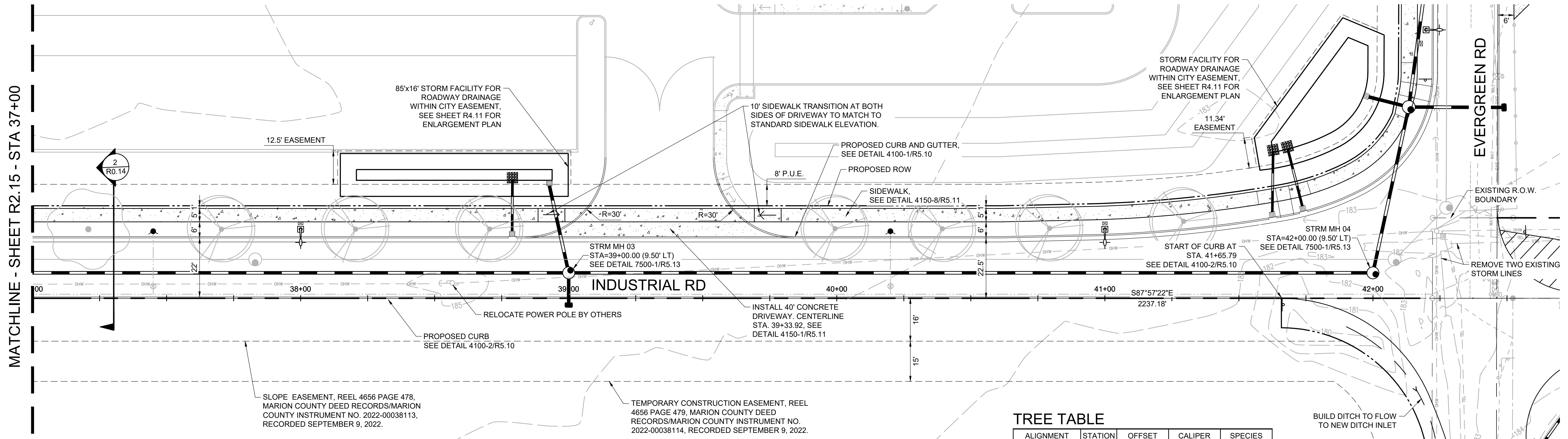
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CHECKED BY: RJH  
SHEET:

**R2.16**

JOB NO  
**2220085.00**

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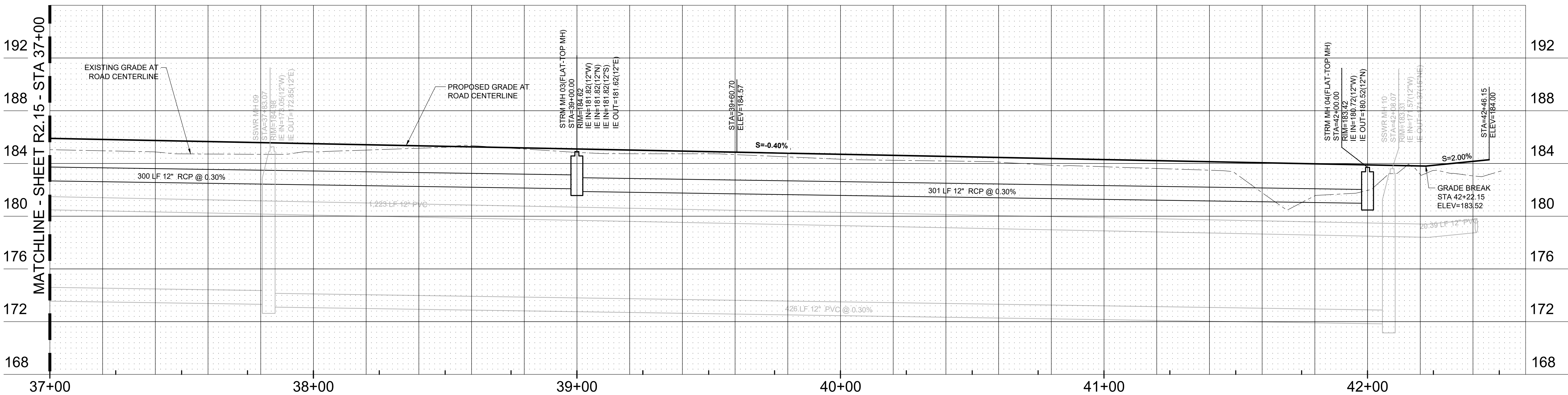
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**1 PLAN - STA 37+00 TO END**  
 ( IN FEET )  
 1 inch = 20 ft.

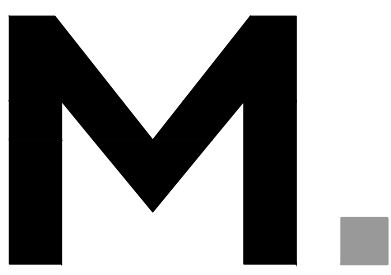
**TREE TABLE**

ALIGNMENT	STATION	OFFSET	CALIPER	SPECIES
INDUSTRIAL RD	37+21	25.5' L	2"	FRONTIER ELM
INDUSTRIAL RD	37+70.5	25.5' L	2"	EUROPEAN HORNBEAM
INDUSTRIAL RD	38+20.5	25.5' L	2"	EUROPEAN HORNBEAM
INDUSTRIAL RD	38+70.5	25.5' L	2"	EUROPEAN HORNBEAM
INDUSTRIAL RD	39+99.5	26.0' L	2"	EUROPEAN HORNBEAM
INDUSTRIAL RD	40+40.5	26.0' L	2"	EUROPEAN HORNBEAM
INDUSTRIAL RD	40+79.5	26.1' L	2"	EUROPEAN HORNBEAM
INDUSTRIAL RD	41+29.5	28.7' L	2"	EUROPEAN HORNBEAM



**2 PROFILE - STA 37+00 TO END**  
 VERTICAL SCALE 1"=4'  
 HORIZONTAL SCALE 1"=20'





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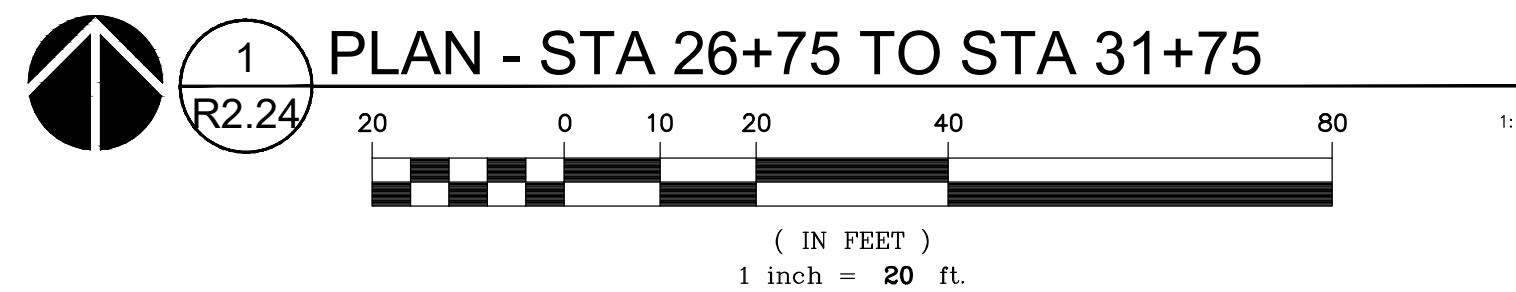
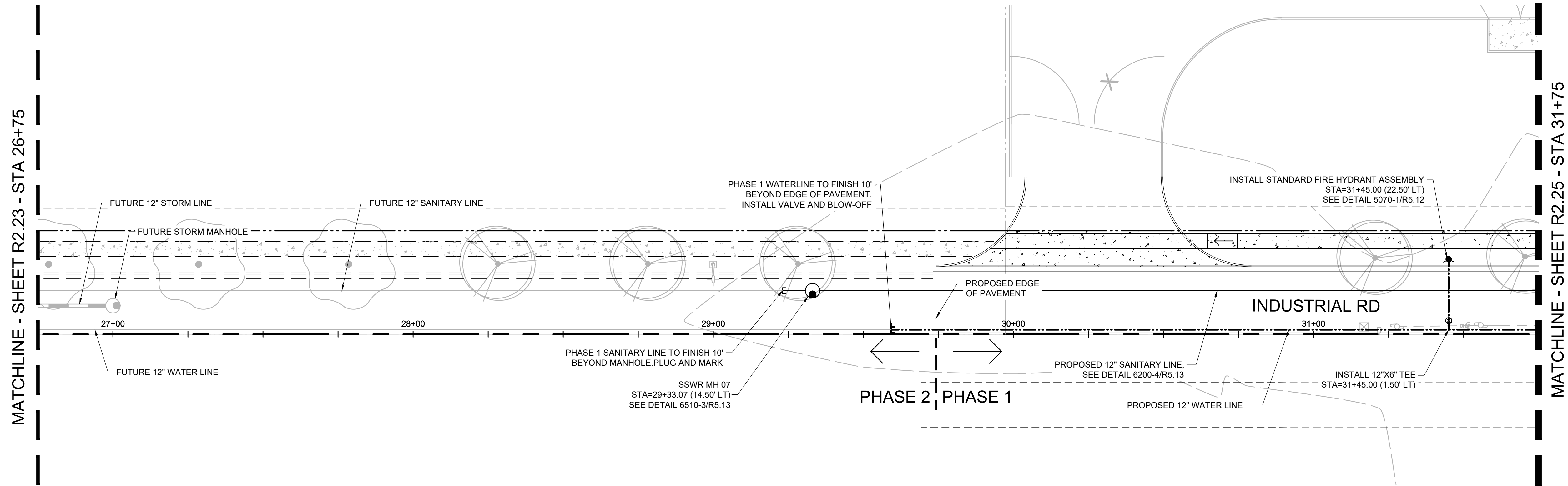
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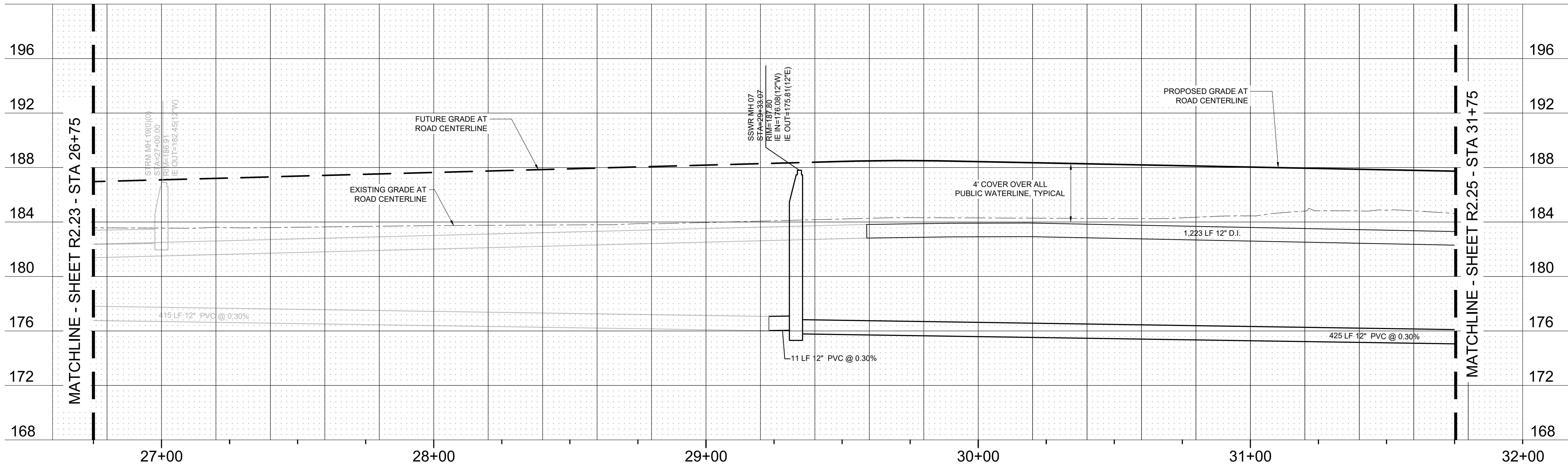


**ELECTRICAL KEYNOTES:**  
SEE SHEET R1.20 FOR KEYNOTES



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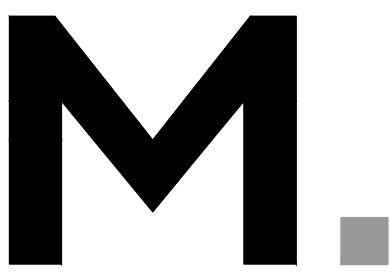
**2** PROFILE - STA 26+75 TO STA 31+75  
VERTICAL SCALE: 1"=4'  
HORIZONTAL SCALE: 1"=20'

SHEET TITLE:  
**INDUSTRIAL RD  
-SANITARY AND  
WATER - STA  
26+75 TO STA  
31+75**

DRAWN BY: TP  
CHECKED BY: RJH  
SHEET:

**R2.24**

JOB NO.  
**2220085.00**



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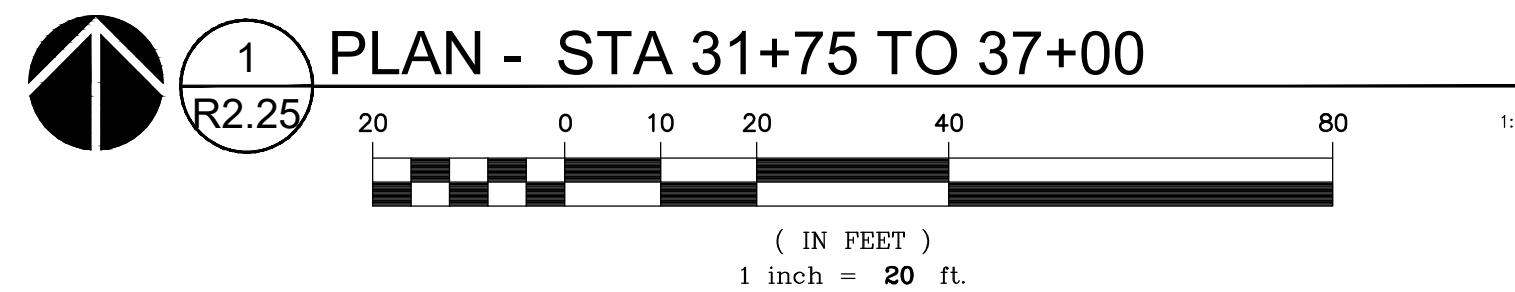
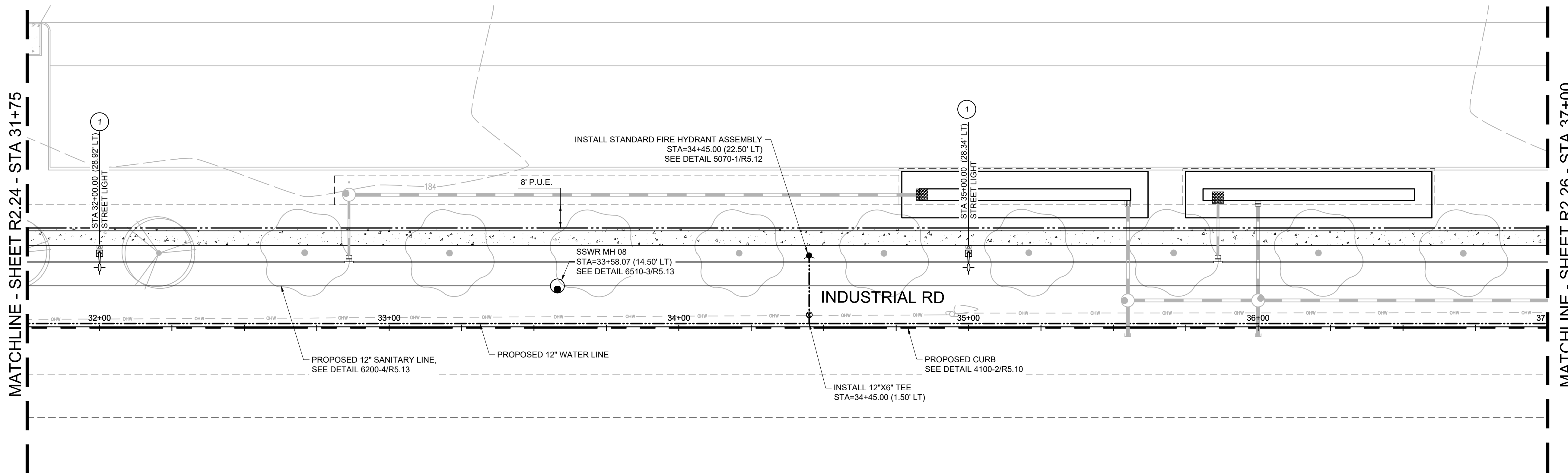
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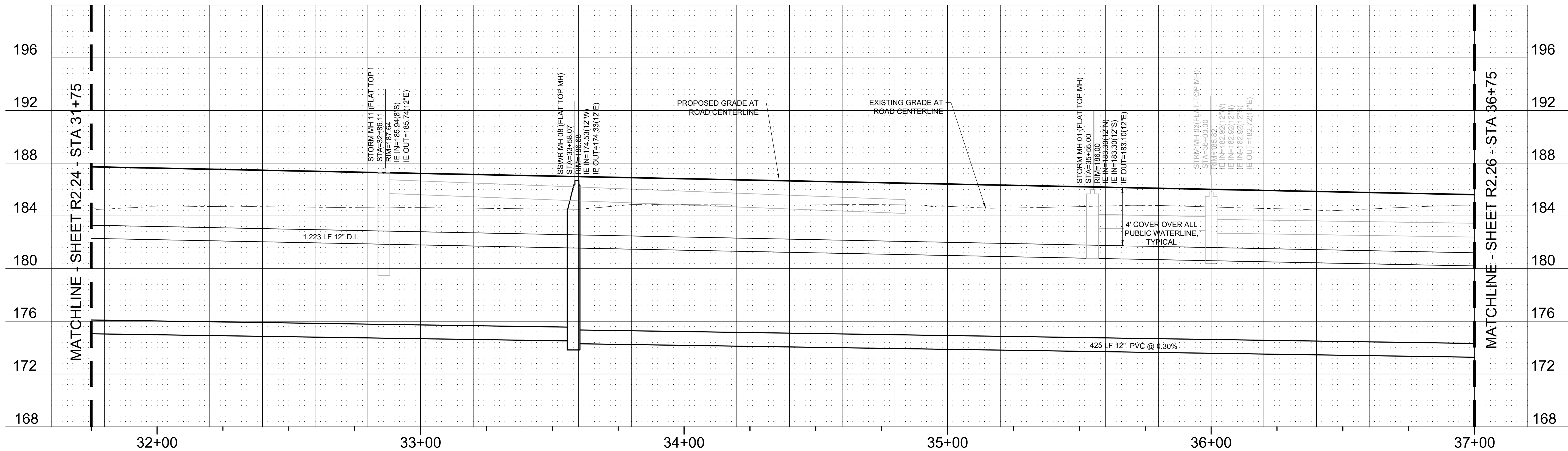
**ELECTRICAL KEYNOTES:**

SEE SHEET R1.20 FOR KEYNOTES



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Delta	Issued As	Issue Date



**2 PROFILE - STA 31+75 TO 37+00**  
VERTICAL SCALE: 1"=4'  
HORIZONTAL SCALE: 1"=20'

**SHEET TITLE:  
INDUSTRIAL RD  
- SANITARY  
AND WATER -  
STA 31+75 TO  
STA 37+00**

DRAWN BY: TP

CHECKED BY: RJH

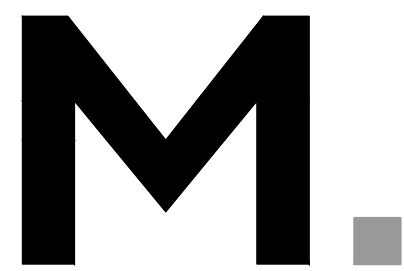
SHEET:

**R2.25**

JOB NO. **2220085.00**

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Delta	Issued As	Issue Date

SHEET TITLE:  
**INDUSTRIAL RD  
- SANITARY  
AND WATER -  
STA 37+00 TO  
END**

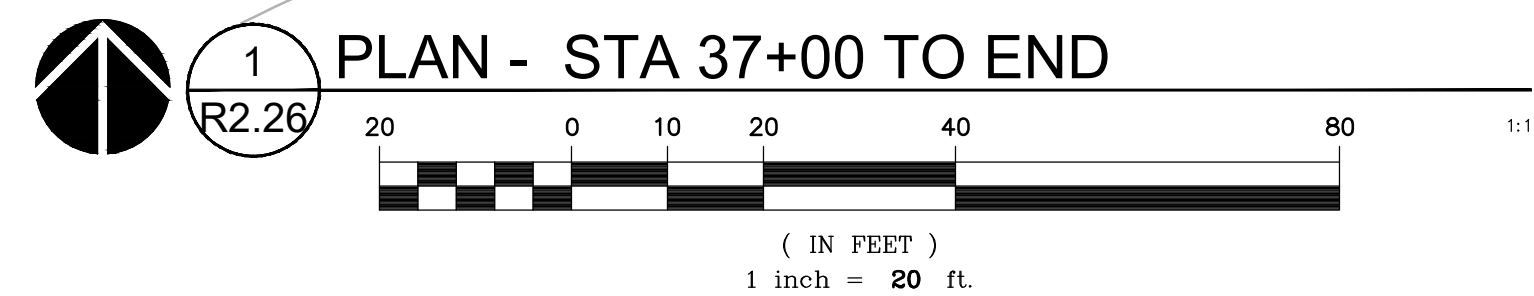
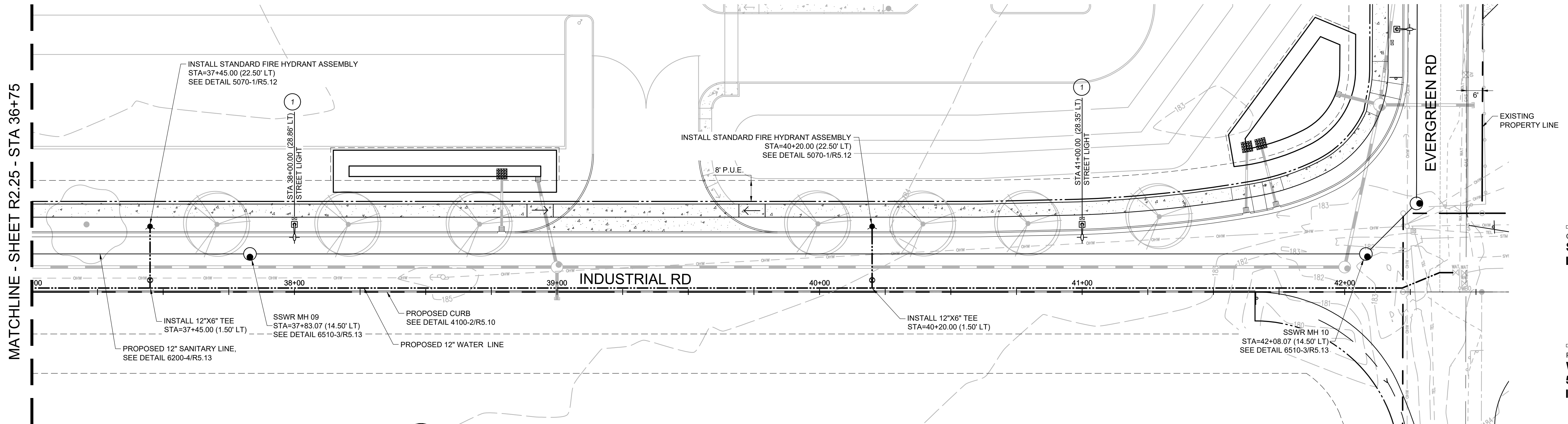
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SHEET:

**R2.26**

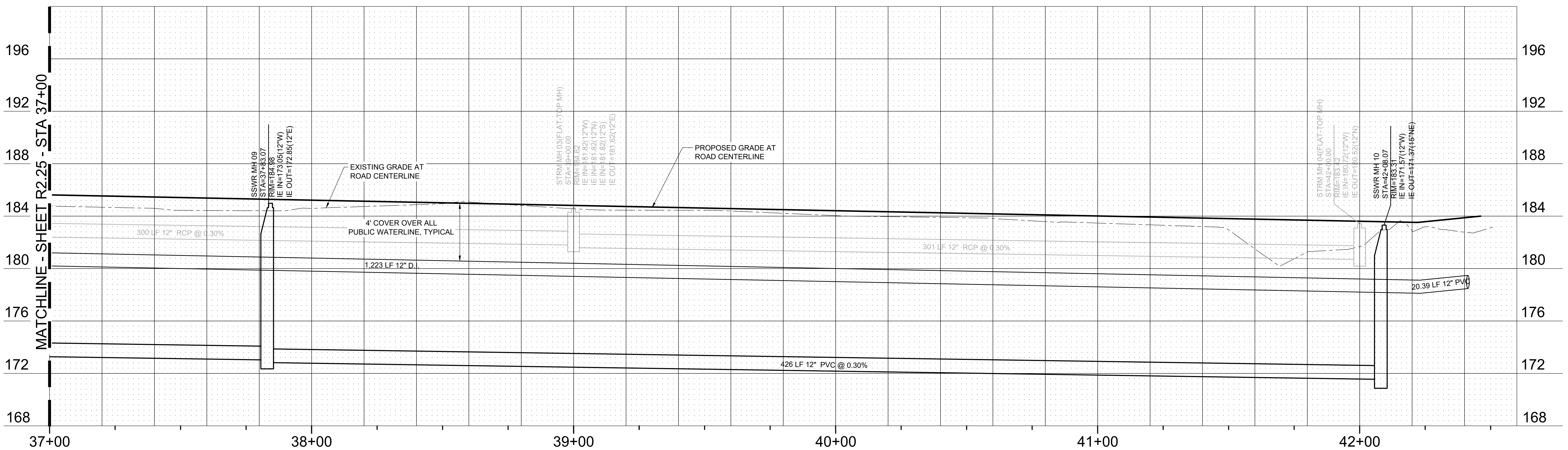
JOB NO.  
**2220085.00**

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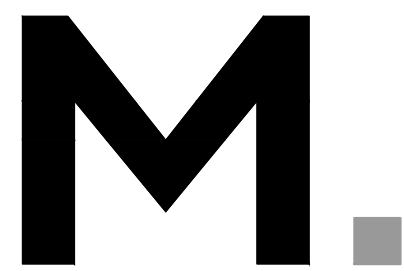
**ELECTRICAL KEYNOTES:**  
SEE SHEET R1.20 FOR KEYNOTES



**2 PROFILE - STA 37+00 TO END**  
VERTICAL SCALE: 1"=4'  
HORIZONTAL SCALE: 1"=20'

MATCHLINE - SHEET R2.25 - STA 36+75

MATCHLINE - SHEET R2.25 - STA 37+00



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SHEET TITLE:  
**SIGNING AND  
STRIPING -  
INDUSTRIAL RD**

DRAWN BY: TP  
CHECKED BY: RJH  
SHEET:

**R2.30**

JOB NO. **2220085.00**

### SIGNING LEGEND

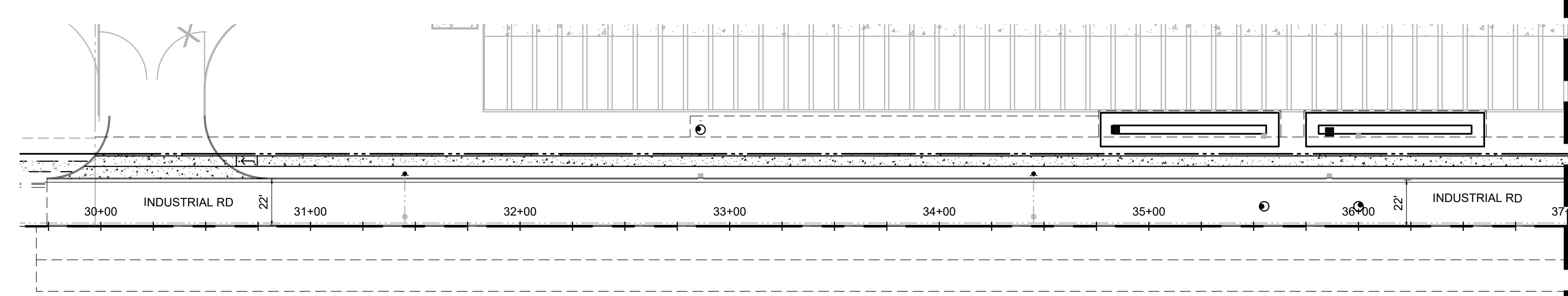
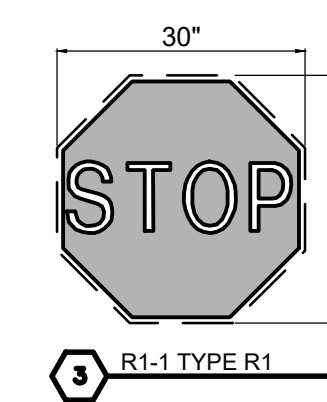
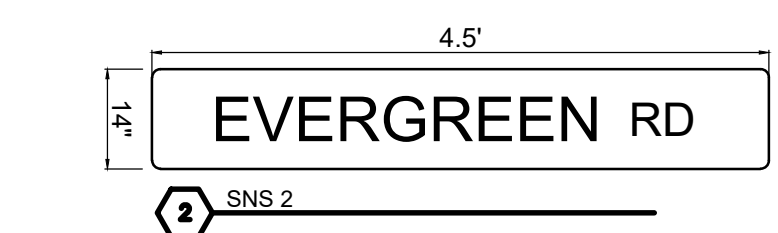
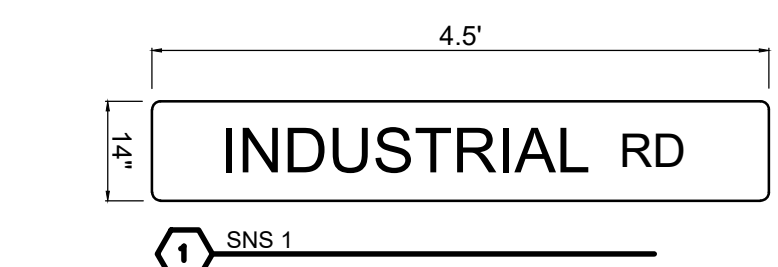
- INSTALL NEW SIGN (N)
- INSTALL NEW SIGN (N) ON NEW (M) SIGN SUPPORT
- N = SIGN NUMBER - SEE TABLE BELOW
- M = SIGN SUPPORT
- S = STEEL TELESPEAR SUPPORT

### SIGNING NOTES

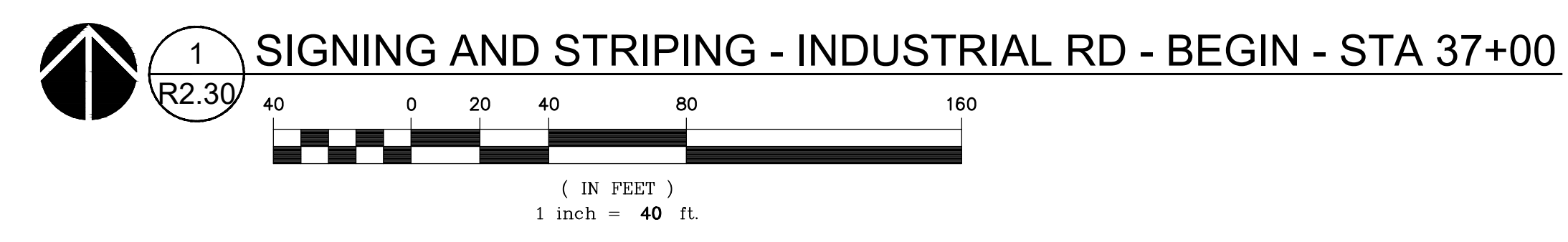
- ON OREGON DEPARTMENT OF TRANSPORTATION (O.D.O.T.) DET 4241/R5.30, SIGN POSTS SHALL BE INSTALLED PER ODOT TM681 AND USE A 2" ANCHOR DETAIL FOUNDATION PER ODOT TM687/R5.35

### STRIPING NOTES

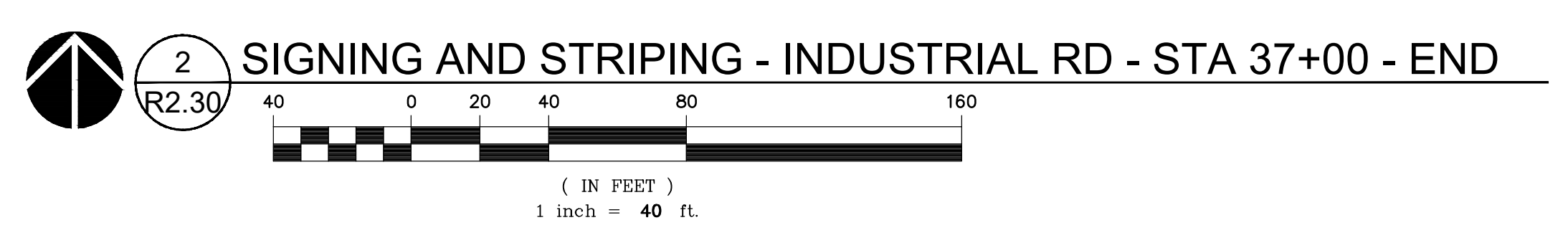
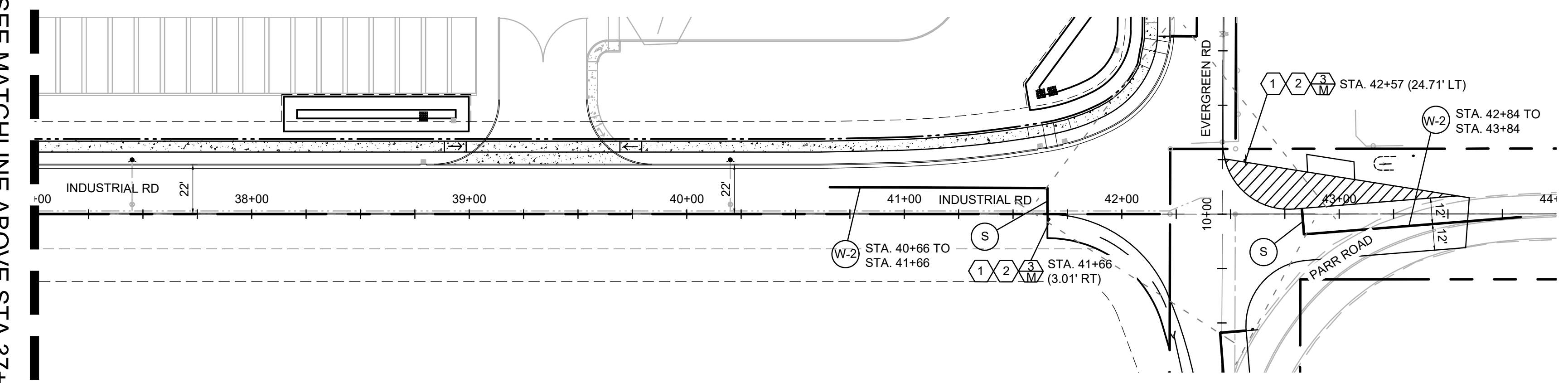
- 1. REFER TO O.D.O.T. PAVEMENT MARKING NOTES AND DETAILS ON SHEET R5.30-R5.34



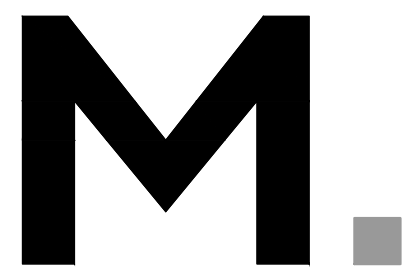
SEE MATCHLINE BELOW STA 37+00



SEE MATCHLINE ABOVE STA 37+00



SIGN & SUPPORT DATA TABLE														
SIGN NO. (N)	QTY. USED	SIGN DIMENSION		SIGN CODE		TYPE OF SUPPORT					FOOTING TYPE		SIGN LEGEND / OTHER REMARKS	
		WIDTH (IN)	HEIGHT (IN)	MUTCD	ODOT	MOUNT					BREAKAWAY ANCHOR ASSEMBLY	BREAKAWAY ANCHOR ASSEMBLY		
						SINGLE PIPE POST	EXISTING PIPE POST	UTILITY POLE	LIGHT POLE	SIGNAL POLE				MODIFIED BIKE RACK
1	2			N/A		X							X	[INDUSTRIAL RD]
2	2			N/A		X							X	[EVERGREEN RD]
3	2	30	30	W1-2R		X							X	[STOP]



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SHEET TITLE:  
**SIGNING AND  
STRIPING -  
EVERGREEN RD**

DRAWN BY: TP  
CHECKED BY: RJH  
SHEET:

**R2.31**

JOB NO. **2220085.00**

### SIGNING LEGEND

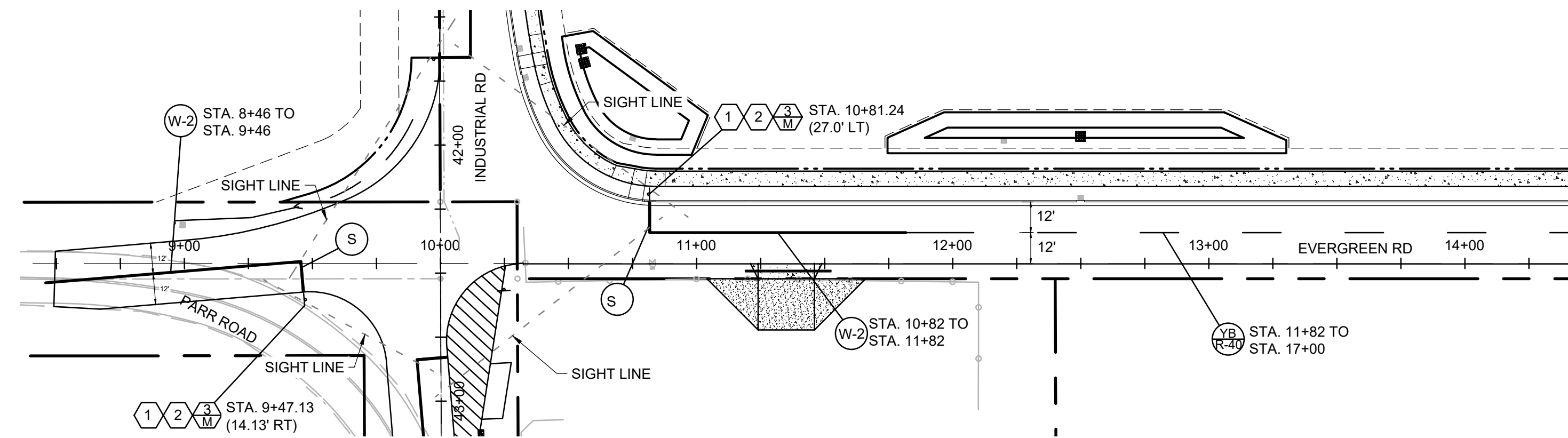
- INSTALL NEW SIGN (N)
- INSTALL NEW SIGN (N) ON NEW (M) SIGN SUPPORT
- N = SIGN NUMBER - SEE TABLE BELOW
- M = SIGN SUPPORT
- S = STEEL TELESPEAR SUPPORT

### SIGNING NOTES

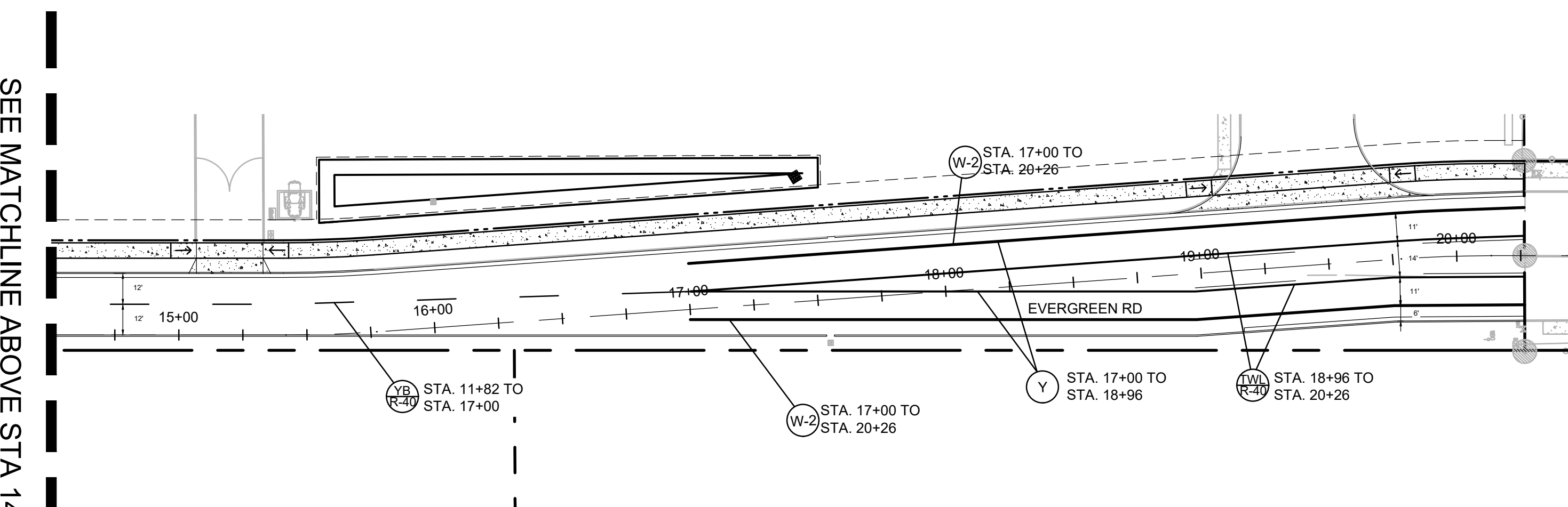
- ON OREGON DEPARTMENT OF TRANSPORTATION (O.D.O.T.) DET 4241/R5.30. SIGN POSTS SHALL BE INSTALLED PER ODOT TM681 AND USE A 2" ANCHOR DETAIL FOUNDATION PER ODOT TM687/R5.35

### STRIPING NOTES

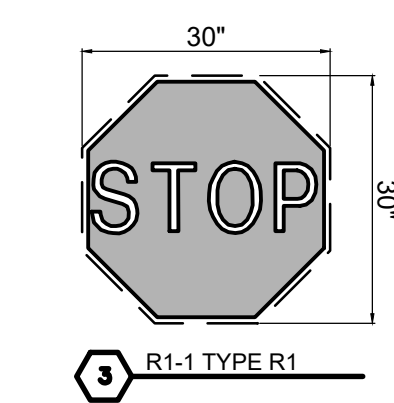
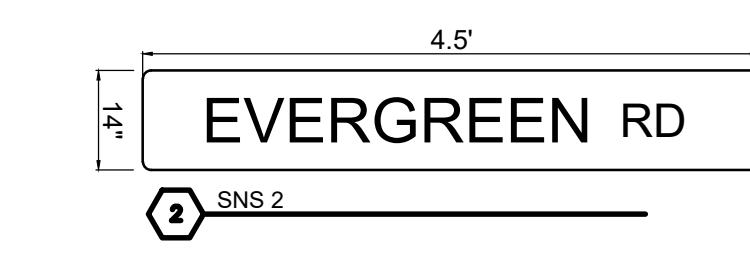
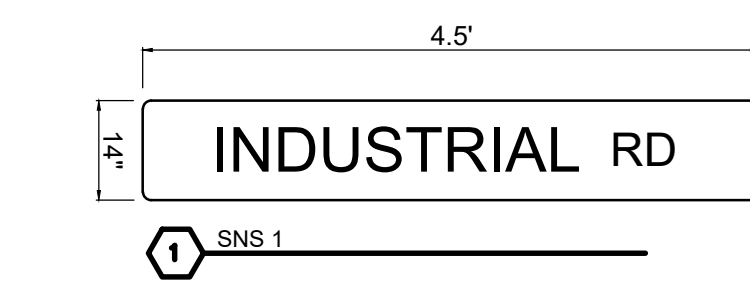
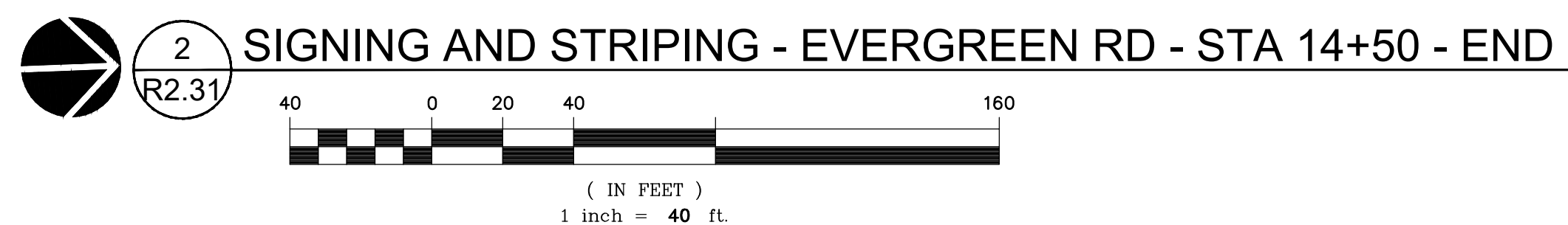
- 1. REFER TO O.D.O.T. PAVEMENT MARKING NOTES AND DETAILS ON SHEET R5.30-R5.34



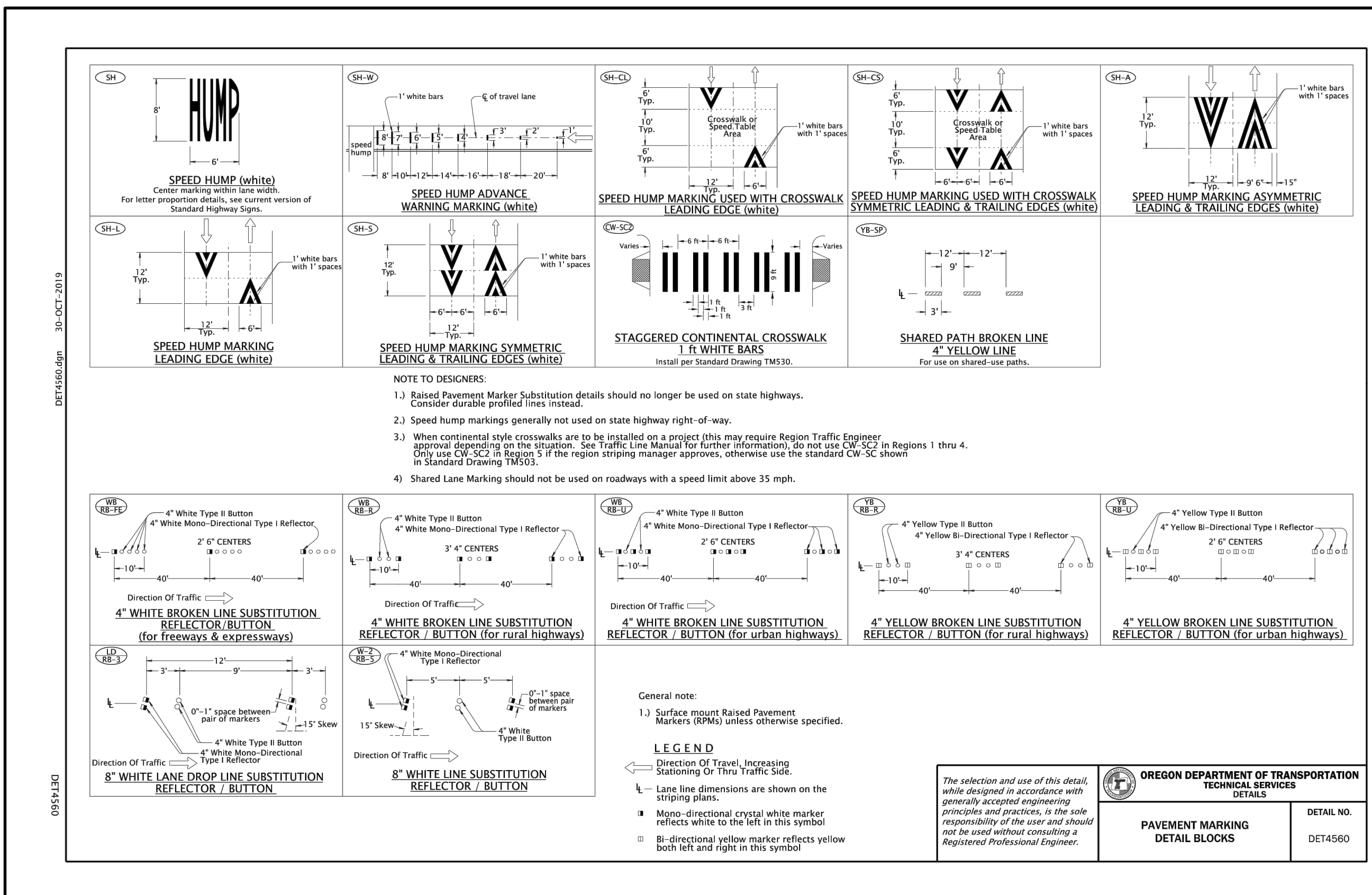
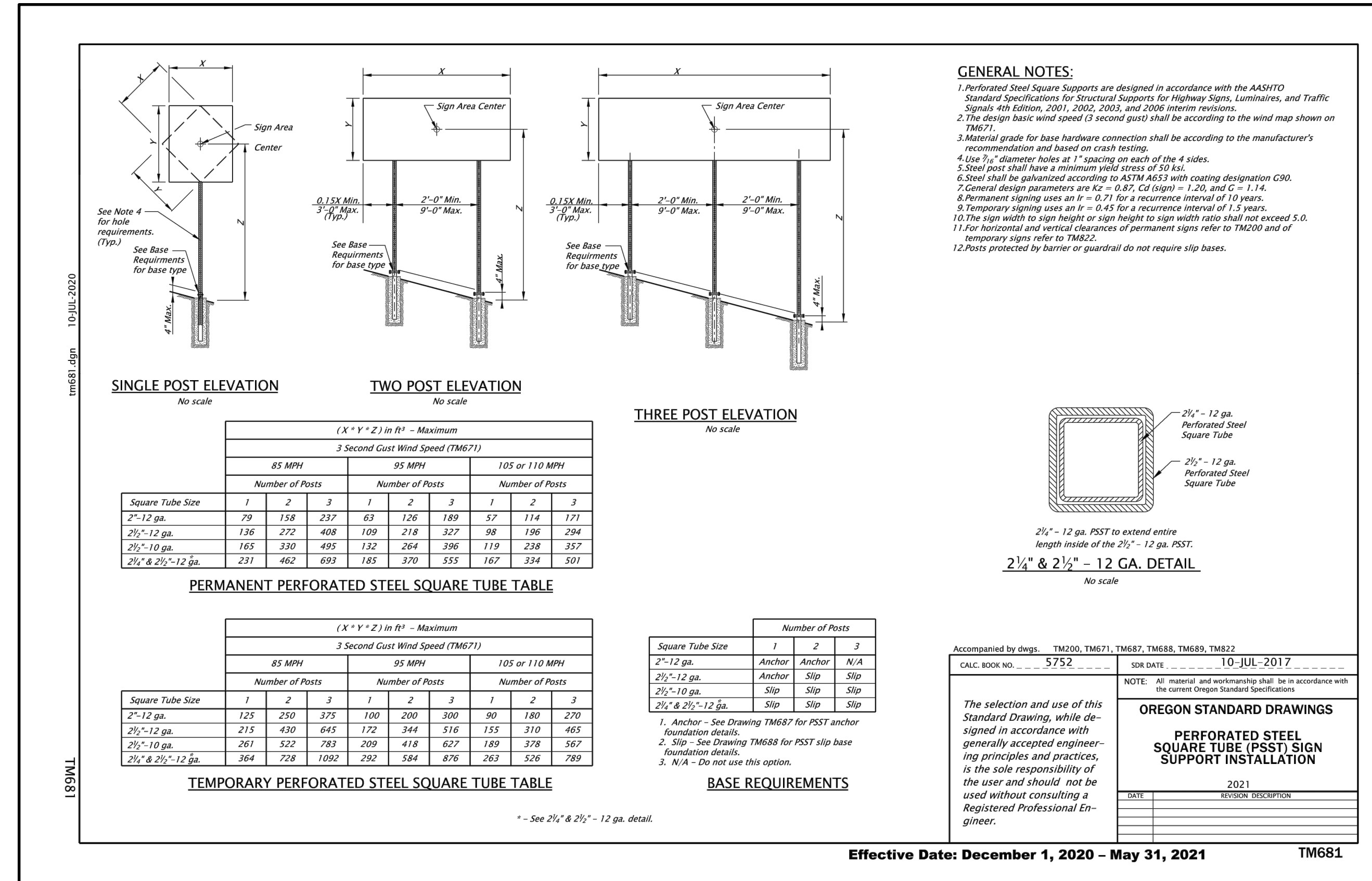
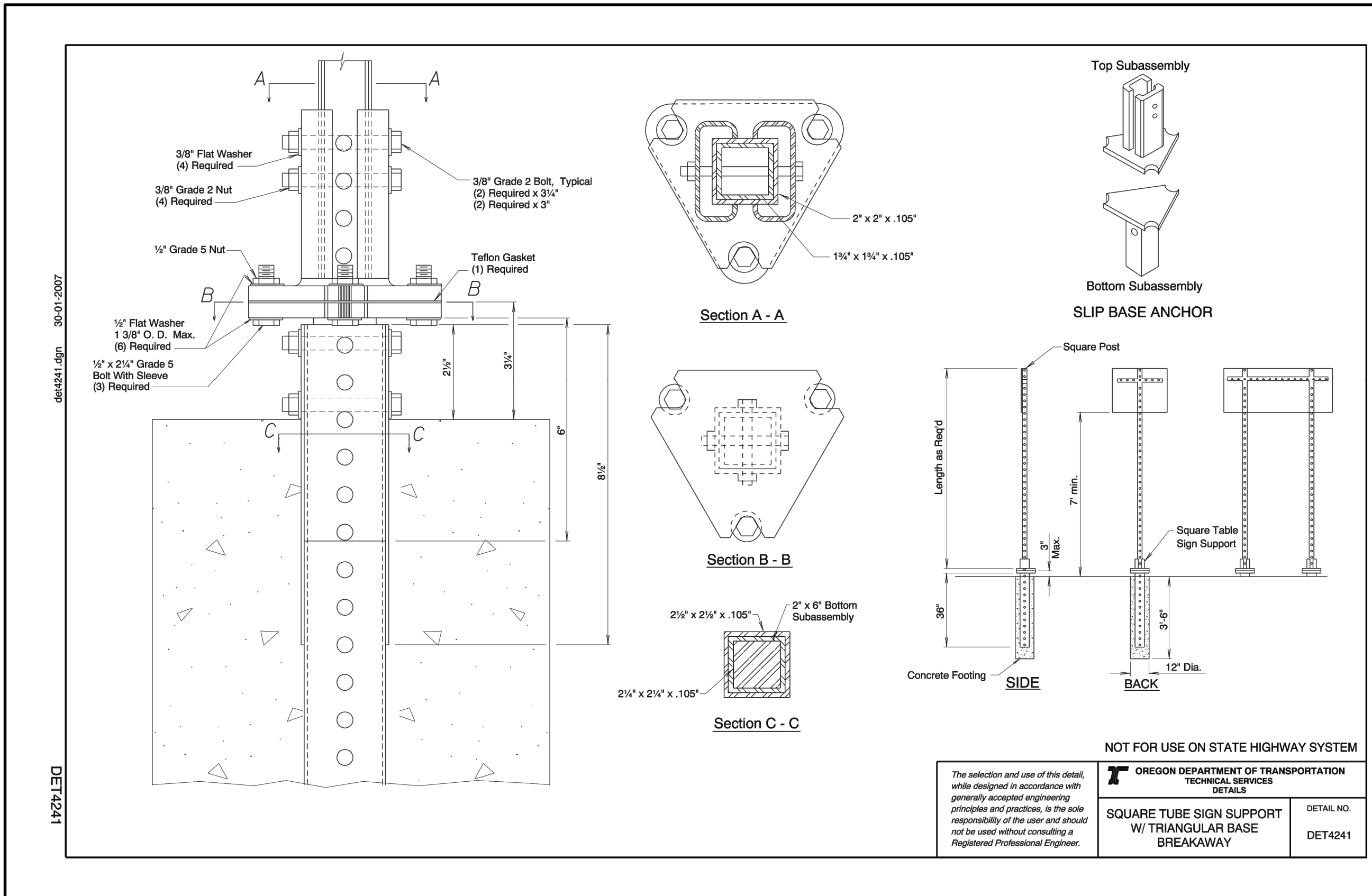
SEE MATCHLINE BELOW STA 14+50

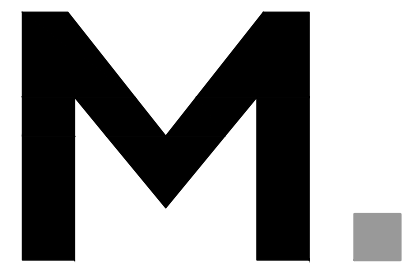


SEE MATCHLINE ABOVE STA 14+50



SIGN & SUPPORT DATA TABLE													
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		WIDTH (IN)	HEIGHT (IN)	MUTCD	ODOT	MOUNT							
						SINGLE PIPE POST	EXISTING PIPE POST	UTILITY POLE	LIGHT POLE	SIGNAL POLE		MODIFIED BIKE RACK	CANTILEVER
1	2			N/A		X						X	[INDUSTRIAL RD]
2	2			N/A		X						X	[EVERGREEN RD]
3	2	30	30	W1-2R		X						X	[STOP]





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SHEET TITLE:  
**SIGN AND  
STRIPING  
DETAILS**

DRAWN BY: TP  
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SHEET:

**R2.33**

JOB NO. **2220085.00**

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**OREGON STANDARD DRAWINGS**  
PAVEMENT MARKING STANDARD DETAIL BLOCKS

2021

Effective Date: December 01, 2020 - May 31, 2021

TM502

**OREGON STANDARD DRAWINGS**  
PAVEMENT MARKING STANDARD DETAIL BLOCKS

2021

Effective Date: December 01, 2020 - May 31, 2021

TM503

**OREGON STANDARD DRAWINGS**  
PAVEMENT MARKING STANDARD DETAIL BLOCKS

2021

Effective Date: December 01, 2020 - May 31, 2021

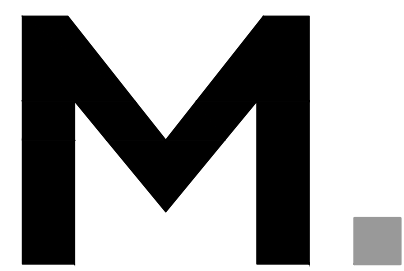
TM500

**OREGON STANDARD DRAWINGS**  
PAVEMENT MARKING STANDARD DETAIL BLOCKS

2021

Effective Date: December 01, 2020 - May 31, 2021

TM501



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SHEET TITLE:  
**SOUTH  
INTERSECTION  
GRADING PLAN**

DRAWN BY: TP  
CHECKED BY: RJH  
SHEET:

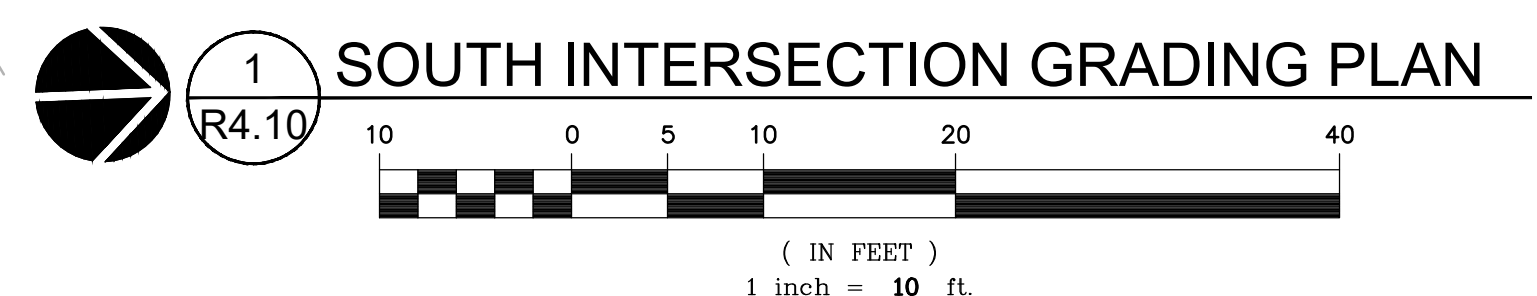
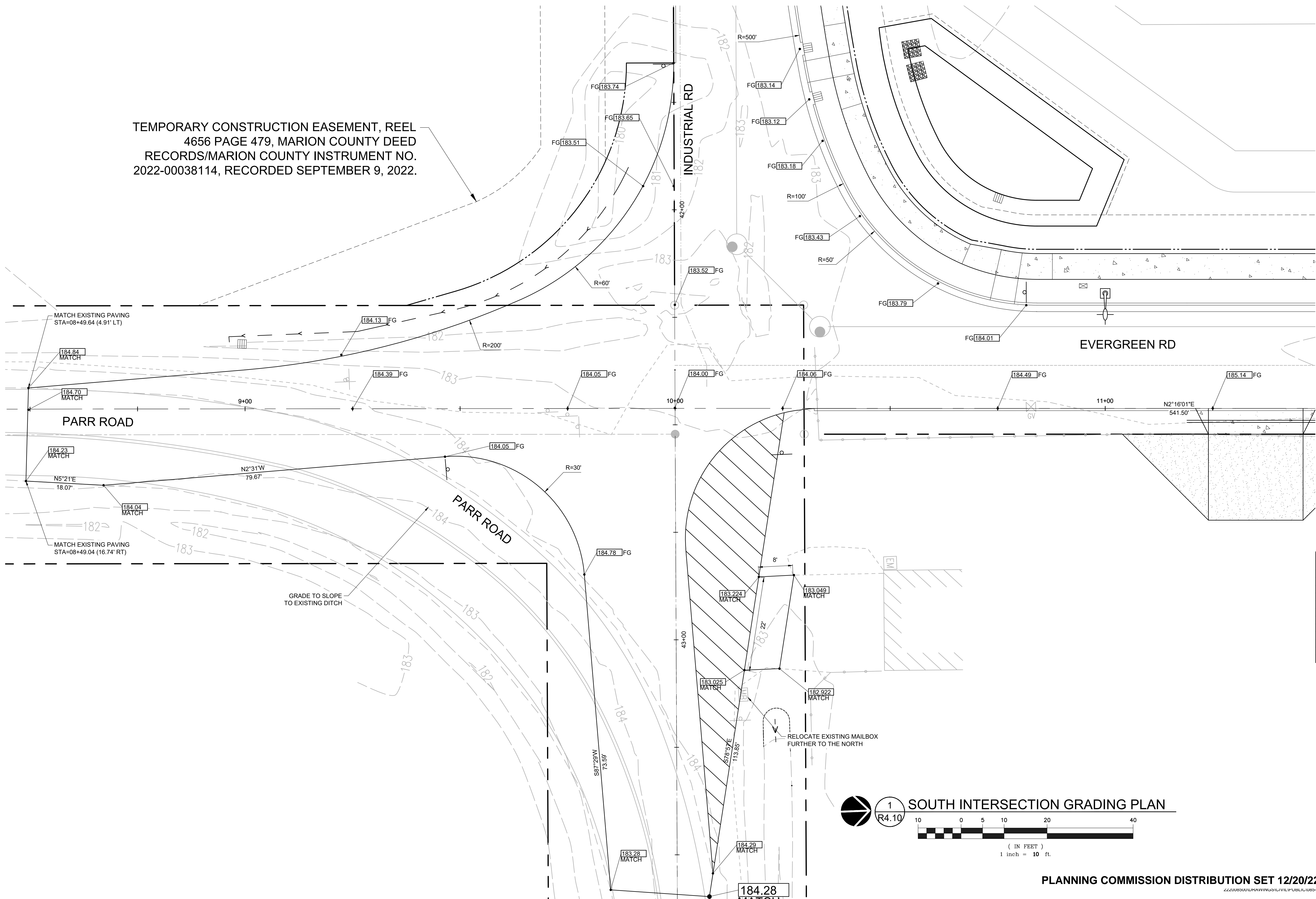
**R4.10**

JOB NO. **2220085.00**

PLANNING COMMISSION DISTRIBUTION SET 12/20/22

ZZZ:\SUBS\DRAWINGS\G\W\I\PUBLIC\URS-R4.10.DWG:R4.10 TP 12/07/22 10:54 1:10

TEMPORARY CONSTRUCTION EASEMENT, REEL  
4656 PAGE 479, MARION COUNTY DEED  
RECORDS/MARION COUNTY INSTRUMENT NO.  
2022-00038114, RECORDED SEPTEMBER 9, 2022.

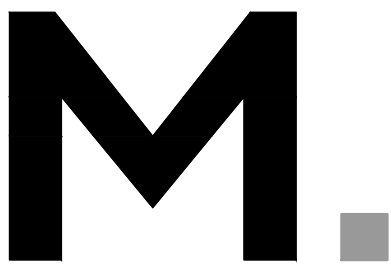


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Delta	Issued As	Issue Date

SHEET TITLE:

DRAWN BY: TP

CHECKED BY: RJH

SHEET:

**R5.10**

JOB NO.  
**2220085.00**

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222008500\DRAWINGS\CIVIL\PUBLIC\085-R5.10.DWG:4230 TP 12/07/22 08:09 1:1

BACKFILL AS SPECIFIED, SEE STANDARD DETAIL 3800-1, TYP.

TYPE A - PLACE PIPE BARREL ON UNDISTURBED EARTH.

TYPE B - SUPPORT PIPE ON 4" OF COMPACTED 1"-MINUS CRUSHED AGGREGATE.

TYPE C - PIPE BEDDED WITH 1"-MINUS CRUSHED AGGREGATE FROM 4" BELOW INVERT TO SPRING LINE.

TYPE D - PIPE BEDDED WITH 1"-MINUS CRUSHED AGGREGATE FROM 4" BELOW INVERT TO 4" ABOVE ZENITH.

**LEGEND**

UNDISTURBED NATIVE SOIL

1"-MINUS CRUSHED AGGREGATE, COMPACTED 95 PCT. OF AASHTO T-99

**NOTES:**  
1. REFERENCE TECHNICAL SPEC. SECTION 3800.

**PIPE TRENCH BACKFILL**

REV: DEC. 2007  
SCALE: NTS  
DET No. **3800-1**

**PIPE TRENCH BEDDING AND ZONE**

REV: DEC. 2007  
SCALE: NTS  
DET No. **3800-2**

CLASS 1 & 2

EXST. GRADE

2" MIN.

MINIMUM SHALL BE O.D. + 24" (1-FT EA SIDE)

BACKFILL (CLASS AS SPEC.)

WATER, SEWER, OR STORM PIPE MATERIAL AS SPECIFIED.

BEDDING AND PIPE ZONE SHALL BE TYPE A, B, C, OR D AS SPECIFIED, SEE STANDARD DETAIL 3800-2.

CLASS 1 BACKFILL: NATIVE OR COMMON MATERIAL WITH A 2" MIN. CROWN, COMPACTED TO 95% T-99.

CLASS 2 BACKFILL: NATIVE OR COMMON MATERIAL COMPACTED IN 8" LIFTS, TO 95% T-180 W/ 2" MIN. CROWN.

CLASS 3 BACKFILL: 1"-MINUS CRUSHED AGGREGATE, COMPACTED IN 8" LIFTS TO 95% AASHTO T-180.

CLASS 4 BACKFILL: CONTROLLED DENSITY FILL (CDF).

**NOTES:**  
1. ENGINEER WILL CONSIDER ADJUSTING USUAL TRENCH WIDTH TO ACCOMMODATE CONDITION ENCOUNTERED.  
2. REFERENCE TECHNICAL SPEC. SECTION 3800.  
3. FOR HMA TRENCH CAP SURFACE REPLACEMENT SEE DETAIL 3800-5.

**PIPE TRENCH BACKFILL**

REV: DEC. 2007  
SCALE: NTS  
DET No. **3800-1**

DRIVEWAY WIDTH VARIES

PLAN

SECTION A

1/2" MAX. LIP

2% MIN. 4% MAX.

2-1/2"

2"

(2) No. 4 REBAR SEE NOTE 1

**NOTES:**  
1. REBAR WILL EXTEND A MIN. OF 2' INTO THE WING AREA.  
2. CURBLINE SIDEWALK SEE DETAIL 4150-3 FOR MINIMUM TAPER. FOR PROPERTY LINE SIDEWALK SEE DETAIL 4150-4 FOR MINIMUM TAPER.  
3. REFERENCE TECHNICAL SPEC. SECTION 4100 AND DETAIL 4100-1.  
4. MATERIAL - 3500 PSI CONCRETE AT 28 DAYS.

**TYPE 'A' CURB AND GUTTER**

REV: DEC. 2007  
SCALE: NTS  
DET No. **4100-1**

**TYPE 'A' CURB AT DRIVEWAY**

REV: DEC. 2007  
SCALE: NTS  
DET No. **4100-4**

GRADE POINT

SEE NOTE 1

6"

3/4" R

6" MIN. OR AS SPECIFIED

STREET SURFACE

9"

4" OF 1"-MINUS CRUSHED AGGREGATE

COMPACTED NATIVE BACKFILL

**NOTES:**  
1. SLOPE CURB 0.02 FT/FT TO CURB FACE.  
2. MATERIAL - 3500 PSI CONCRETE AT 28 DAYS.  
3. REFERENCE TECHNICAL SPEC. SECTIONS 2000, 2300 AND 4100.  
4. PLACE CONTRACTION JOINTS AT 15' MAX. INTERVALS AND SHALL EXTEND AT LEAST 50% THROUGH CURB.

**TYPE 'C' CURB**

REV: DEC. 2007  
SCALE: NTS  
DET No. **4100-2**

6"

18"

3/4"

1/2" R

2" R

1/8" R

2% MIN. 4% MAX.

12"

6"

4" OF 1"-MINUS CRUSHED AGGREGATE

SEE NOTE 1

GRADE

**NOTES:**  
1. SLOPE CURB 0.02 FT/FT TO CURB FACE.  
2. MATERIAL - 3500 PSI CONCRETE AT 28 DAYS.  
3. REFERENCE TECHNICAL SPEC. SECTIONS 2000, 2300 AND 4100.  
4. PLACE CONTRACTION JOINTS AT 15' MAX. INTERVALS AND SHALL EXTEND AT LEAST 50% THROUGH CURB.

**TYPE 'A' CURB AND GUTTER**

REV: DEC. 2007  
SCALE: NTS  
DET No. **4100-1**



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**THRUST BLOCKING**

REV: DEC. 2007  
SCALE: NTS  
DET No. 5000-1

NOTES:  
1. MATERIAL - 3500 PSI CONCRETE AT 28 DAYS.  
2. SEE DETAIL 5000-2 FOR THRUST BLOCK BEARING AREAS.  
3. FOR TIE BACK SEE DETAIL 5000-5.

1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.  
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES. INSTALL IN ACCORDANCE TO TECHNICAL SPEC. SECTION 5000.

FITTING SIZE	BEARING AREA OF THRUST BLOCKS IN SQ. FT.					
	TEE, WYE PLUG OR GAP	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN	45° BEND	22.5° BEND	11.25° BEND
4	1.0	1.4	1.9	1.4	1.0	--
6	2.1	3.0	4.3	3.0	1.6	1.0
8	3.8	5.3	7.6	5.4	2.9	1.5
10	5.9	8.4	11.8	8.4	4.6	2.4
12	8.5	12.0	17.0	12.0	6.6	3.4
14	11.5	16.3	23.0	16.3	8.9	4.6
16	15.0	21.3	30.0	21.3	11.6	6.0
18	19.0	27.0	38.0	27.0	14.6	7.6
20	23.5	33.3	47.0	33.3	18.1	9.4
24	34.0	48.0	68.0	48.0	26.2	13.6

3. BEARING AREAS SHOWN ARE BASED ON TEST PRESSURE OF 150 PSI. AND AN ALLOWABLE SOIL BEARING STRESS OF 2,000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/150) X (2,000/SOIL BEARING STRESS) X (TABLE VALUE).  
4. REFERENCE STANDARD DETAIL 5000-1.  
\*STRADDLE BLOCK SHALL MEET THIS TABLE.

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**HORIZONTAL THRUST BLOCK TABLES**

REV: DEC. 2007  
SCALE: NTS  
DET No. 5000-2

FORD CO. MODEL		ANGLE METER VALVE
DIA.	CORP STOP	Model No.
1"	F1000-4*	KV43-444W*
1.5"	FB1000-6*	FV43-666W*
2"	FB500-7*	FV43-777W*

\*OR APPROVED EQUAL

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**WATER SERVICE CONNECTION**

REV: MAY 2011  
SCALE: NTS  
DET No. 5000-4

NOTES:  
1. WATER METER AND TAILPIECE SHALL BE FURNISHED AND INSTALLED BY CITY WATER DIVISION.  
2. WATER DIVISION SHALL HAVE SOLE RESPONSIBILITY FOR TAPPING LIVE MAINS.  
3. REFERENCE TECHNICAL SPEC. SECTION 5000.  
4. 1.5" & 2" SERVICE LINES SHALL BE SADDLE TAPPED WITH BRONZE DOUBLE STRAPS.

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**UTILITY ZONES AROUND WATER LINES**

REV: DEC. 2007  
SCALE: NTS  
DET No. 5000-6

ZONE 1: SEWER LINE BE LAID IN THIS AREA WITH NO SPECIAL REQUIREMENTS OF EITHER CONSTRUCTION OR MATERIALS OTHER THAN THOSE SPECIFIED.  
ZONE 2: INSTALLING A SEWER LINE IN THIS ZONE IS NOT ADVISABLE AND MUST BE APPROVED IN EACH CASE. WATER LINE SHALL BE LOCATED ON A BENCH OF UNDISTURBED EARTH WHEN CONSTRUCTED CONCURRENTLY IN A COMMON TRENCH WITH A SEWER LINE.  
ZONE 3: INSTALLING A SEWER MAIN DIRECTLY OVER A WATER MAIN OR DIRECTLY UNDER A WATER MAIN IN THIS ZONE IS PROHIBITED SINCE TAPPING AND MAINTENANCE OF EACH LINE WOULD BE IMPAIRED.  
ZONE 4: SEWER LINE CONSTRUCTION IN THIS ZONE WOULD GENERALLY NOT BE PERMITTED. EACH INSTALLATION MUST BE APPROVED. IF CONSTRUCTION WAS APPROVED PRESSURE PIPE MATERIALS (D.I.) FOR THE SEWER LINE WOULD BE REQUIRED.

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**VALVE ASSEMBLY**

REV: FEB. 2020  
SCALE: NTS  
DET No. 5050-2

VALVE BOX COVER SHALL BE EAST JORDAN IRON WORKS MODEL# 3639A1 OR APPROVED EQUAL.  
ADJUST TO FINISH GRADE  
FINISH GRADE  
18" VALVE BOX TOP SECTION SHALL BE EAST JORDAN IRON WORKS MODEL# 3639Z1 18T OR APPROVED EQUAL.  
SLIDE VALVE BOX BOTTOM SECTION SHALL BE 6-INCH DIAMETER, SDR 35 PIPE OR APPROVED EQUAL.  
D.I. WATER MAIN  
M.J. OR FLANGED VALVE  
CONCRETE PIER BLOCK POUR ON UNDISTURBED EARTH. MIN. AREA OF 2 SQ. FT. VALVE TO HAVE TEMPORARY BLOCKING DURING CURE.  
NOTES:  
1. REFERENCE TECHNICAL SPEC. SECTION 5050.

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**FIRE HYDRANT ASSEMBLY**

REV: FEB. 2020  
SCALE: NTS  
DET No. 5070-1

HYDRANT: MUELLER CENTURION A423 OR M & H RELIANT 929T. REFERENCE TECHNICAL SPEC. SECTION 5070.  
BREAKAWAY FLANGE  
BACK FILL, SEE NOTE 3  
FINISH GRADE  
VALVE BOX, SEE DET. 5050-2  
6" M.J. x FLANGED GATE VALVE  
SEE NOTE 2  
M.J. HYDRANT W/ MEGALUG  
M.J. VALVE WITH MEGALUG  
THRUST BLOCK  
PIER BLOCKS  
CONCRETE THRUST BLOCK SEE DETAILS 5000-1 & 2  
PIPE ZONE TO BE TYPE 'D' AS SHOWN IN STANDARD DETAIL 3800-2.

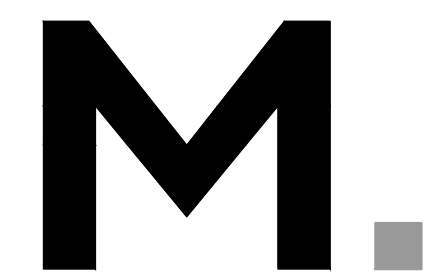
NOTES:  
1. BED PIPE WITH 1"-MINUS SO AS TO CARRY LOAD OF PIPE EVENLY WITHOUT FIXING LOAD ON PIER BLOCKS DIG OUT BELOW BED FOR PIER BLOCKS, AS DIRECTED.  
2. BURY HEIGHT: 3-1/2 TO 4 FEET. IF GREATER DEPTH IS REQUIRED EXTENSIONS SHALL BE USED TO ADJUST FH TO PROPER HEIGHT.  
3. BACK FILL SHALL BE OF TYPE SPECIFIED.  
4. D.I. PIPE BETWEEN VALVE AND FH SHALL BE BY MEANS OF MECHANICAL JOINT WITH MEGALUG PIPE CONNECTORS OR COATED THREADED TIE RODS, AS APPROVED.

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**UTILITY ZONES AT SEWER LINE**

REV: DEC. 2007  
SCALE: NTS  
DET No. 6200-4

ZONE 1: WATER LINE CAN BE LAID IN THIS AREA WITH NO SPECIAL REQUIREMENTS OF EITHER CONSTRUCTION OR MATERIALS OTHER THAN THOSE SPECIFIED. CROSSING RESTRICTIONS SHALL APPLY.  
ZONE 2: INSTALLING A WATER MAIN IN THIS ZONE IS NOT ADVISABLE AND MUST BE APPROVED IN EACH CASE. IF ALLOWED, WATER MAIN SHALL BE LOCATED MINIMUM 1.5' ABOVE ZENITH OF SEWER PIPE.  
ZONE 3: WATER MAIN CONSTRUCTION IS NOT PERMITTED.  
ZONE 4: WATER MAIN CONSTRUCTION IS NOT PERMITTED.



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REV: MAY 2011  
SCALE: NTS  
DET No. 5000-4



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CHECKED BY: RJH  
SHEET:

**R5.12**

JOB NO. 2220085.00



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**NOTES:**

- REFER TO CITY OF PORTLAND STANDARD DRAWING P-540 FOR 18" THICKENED CURB AND GUTTER.
- SMOOTH TRANSITION TO ENSURE WATER FLOWS INTO GUTTER.

**PLAN**

DEPRESS GUTTER PAN 2" TO BOTTOM OF INLET (B)

4" THICK CONCRETE SPLASH PAD, TYP. EACH INLET

2'-6" OR 3" (6" WIDER THAN INLET OPENING, BOTH SIDES)

1'-6" OR 2"

3'-6" OR 4"

12" OR 18" (SEE PLANS)

**ISOMETRIC**

**SECTION A-A**

SEE NOTE 2

METAL INLET ASSEMBLY, PER CITY OF PORTLAND STD. DWG. P-302

4" CONCRETE SPLASH PAD FLUSH WITH FINISHED FACILITY GRADE

STORMWATER FACILITY BLENDED SOIL

FLOW LINE (FL) BOTTOM OF INLET (B)

#4 REBAR DOWELS SPACED 12" O.C.

**Table:**

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.	Bureau of Environmental Services CITY OF PORTLAND, OREGON William Ryan Chief Engineer
	STANDARD DRAWING Title <b>CONCRETE INLET, TYPE METAL</b>
Note: All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.	Effective Date: 07-31-20 Calc. Book No.: N/A Baseline Report Date: N/A
	Standard Drawing No. <b>P-300</b>

**NOTES:**

- ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C478.
- STANDARD PRECAST MANHOLE SECTION DIAMETER SHALL BE 48". USE 42" IF SPECIFIED BY THE ENGINEER. MAXIMUM PIPE DIAMETER 24".
- ALL CONNECTING PIPES SHALL HAVE A FLEXIBLE, GASKETED, AND UNRESTRAINED JOINT WITHIN 18" OF MANHOLE WALL.
- USE FLAT TOP FOR SHALLOW MANHOLE WHERE DIRECTED.

CONSTRUCT INVERT CHANNELS TO UNIFORM FLOW LINES WITH GRADUAL TRANSITION SECTIONS

STEPS

EAST JORDAN IRON WORKS MODEL# 2600 FRAME & 2603 COVER OR APPROVED EQUAL.

FINISH GRADE

ADJUST 24" MAX.

ADJUSTMENT RING(S) VARIABLE 12" MAX.

FRAME AND ADJUSTMENT RINGS SHALL BE SEALED WITH NON-SHRINK GROUT. PREFORMED PLASTIC OR RUBBER RING TO FORM A WATERTIGHT SEAL. REFERENCE TECHNICAL SPEC. SECTION 7500.

ALL JOINTS SHALL BE SEALED WITH PREFORMED PLASTIC OR RUBBER RING TO FORM A WATERTIGHT SEAL.

STANDARD PRECAST MANHOLE RISERS (AS REQUIRED)

USE COMMERCIALY AVAILABLE RUBBER BOOT OR MANHOLE ADAPTER

1"-MINUS CRUSHED AGGREGATE

18" MAX. (TYP.) ALL CONNECTING PIPES SHALL HAVE A FLEXIBLE, GASKETED, AND UNRESTRICTED JOINT WITHIN 18" OF MANHOLE WALL

6" MIN.

8" MIN.

5" MIN.

36"

2" MIN.

8-3/8"

13" TO 16"

VAR.

2-1/2"

13" TO 16"

8-3/8"

6"

12" SPACING

26" MAX.

**MANHOLE STEPS DETAIL**

**SECTION A**

**Table:**

<b>WOODBURN</b> Incorporated 1889 PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	<b>STORM SEWER MANHOLE</b>
REV: DEC. 2011	SCALE: NTS
DET No.	<b>7500-1</b>

CONSTRUCT INVERT CHANNELS TO UNIFORM FLOW LINES WITH GRADUAL TRANSITION SECTIONS

STEPS

EAST JORDAN IRON WORKS MODEL# 2600 FRAME & 2603 COVER OR APPROVED EQUAL.

SEE NOTE 1

ECCENTRIC MH TOP

12" MAX

12" (TYP)

48" MIN. I.D.

5" MIN

FERNCO CMA OR APPROVED EQUAL.

EXTEND PIPE INTO MH & GROUT SMOOTH

2" MAX

6" MIN

1"-MINUS CRUSHED AGGREGATE

**SECTION A**

**NOTES:**

- MANHOLE JOINTS: CONCRETE EXTENSION RING SHALL BE SEALED WATERTIGHT. REFERENCE TECHNICAL SPEC. SECTION 6510.

**Table:**

<b>WOODBURN</b> Incorporated 1889 PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	<b>SANITARY SEWER MANHOLE</b>
REV: DEC. 2007	SCALE: NTS
DET No.	<b>6510-3</b>

**KEYNOTES:**

- PRECAST CONCRETE CATCH BASIN WITH DITCH INLET TOP SECTION
- WELDED STEEL FRAME AND GRATE: 2.5" x 3/8" SQ. EDGE FLAT BARS ON ENDS WITH 2.5" x 1/4" SQ. EDGE FLAT BARS IN BETWEEN, SET 3" O.C.
- OUTLET PIPE SIZE AND INVERT PER PLAN INSTALL AS CLOSE AS PRACTICAL TO TOP OF PRECAST KNOCKOUT TO MAXIMIZE SUMP, UP TO 18" MAX

**NOTES:**

- BOTTOM OF GRATE OPENING SHALL BE SET AT FLOWLINE OF DITCH, UNLESS NOTED OTHERWISE ON PLAN
- PRECAST SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478
- PRECAST REINFORCEMENT SHALL BE REBAR MEETING ASTM A615 GRADE 60
- PRECAST STRUCTURE SHALL CONFORM TO ODOT TYPE G-2 CATCH BASIN DESIGN W/DITCH INLET TOP
- FRAME AND GRATE SHALL BE NEW STRUCTURAL ASTM A-36 FLAT BAR STEEL OR APPROVED EQUAL
- CONTRACTOR SHALL VERIFY WITH LOCAL JURISDICTION IF GRATE IS REQUIRED TO BE LOCKED OR CHAIN TO GRATE AND INSTALL ADDITIONAL EQUIPMENT AS REQUIRED

27"±

32"±

2

GRATE (FRONT)

MATCH SLOPE (2:1 MAX)

12" MIN SUMP

24" x 27.5" MIN

1

**1 DITCH INLET** NTS

**KEYNOTES:**

- PRECAST CONCRETE CATCH BASIN WITH DITCH INLET TOP SECTION
- WELDED STEEL FRAME AND GRATE: 2.5" x 3/8" SQ. EDGE FLAT BARS ON ENDS WITH 2.5" x 1/4" SQ. EDGE FLAT BARS IN BETWEEN, SET 3" O.C.
- OUTLET PIPE SIZES, INVERTS, AND SLOPES. SEE SHEETS R4.11 AND R4.12
- OVERFLOW SIZES AND ELEVATIONS. SEE R4.11 & R4.12
- SHEAR GATE PER DETAIL 3/R5.13
- ORIFICE SIZES AND ELEVATIONS. SEE SHEETS R4.11 AND R4.12
- LIFT HANDLE FOR SHEAR GATE. SEE DETAIL 3/R5.13
- 4" DIAMETER PERFORATED PIPE
- SEE SHEETS R4.11 AND R4.12

**NOTES:**

- BOTTOM OF GRATE OPENING SHALL BE SET AT FLOWLINE OF DITCH, UNLESS NOTED OTHERWISE ON PLAN
- PRECAST SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478
- PRECAST REINFORCEMENT SHALL BE REBAR MEETING ASTM A615 GRADE 60
- PRECAST STRUCTURE SHALL CONFORM TO ODOT TYPE G-2 CATCH BASIN DESIGN W/DITCH INLET TOP
- FRAME AND GRATE SHALL BE NEW STRUCTURAL ASTM A-36 FLAT BAR STEEL OR APPROVED EQUAL
- CONTRACTOR SHALL VERIFY WITH LOCAL JURISDICTION IF GRATE IS REQUIRED TO BE LOCKED OR CHAIN TO GRATE AND INSTALL ADDITIONAL EQUIPMENT AS REQUIRED

27"±

32"±

2

GRATE (FRONT)

MATCH SLOPE (2:1 MAX)

12" MIN SUMP

24" x 27.5" MIN

1

**2 FLOW CONTROL DITCH INLET** NTS

**NOTES:**

- THE FRAME AND LADDER OR STEPS ARE TO BE OFFSET SO THAT: THE SHEAR GATE IS VISIBLE FROM THE TOP; THE CLIMB-DOWN SPACE IS CLEAR OF RISER AND GATE; THE FRAME IS CLEAR OF THE CURB (IF APPLICABLE)
- THE SHEAR GATE SHALL BE MADE OF ALUMINUM ALLOY IN ACCORDANCE WITH ASTM B 26M AND ASTM B 275, DESIGNATION ZG32A; OR CAST IRON IN ACCORDANCE WITH ASTM A 48, CLASS 30B
- THE LIFT HANDLE SHALL BE MADE OF SIMILAR METAL TO THE GATE (TO PREVENT GALVANIC CORROSION)
- A NEOPRENE RUBBER GASKET IS REQUIRED BETWEEN THE PIPE MOUNTING FLANGE AND THE GATE FLANGE
- INSTALL THE GATE SO THAT THE LEVEL-LINE IS LEVEL WHEN THE GATE IS CLOSED
- THE MATING SURFACES OF THE LID AND THE BODY SHALL BE MACHINED TO PROPER FIT
- ALL SHEAR GATE BOLTS SHALL BE STAINLESS STEEL
- THE SHEAR GATE MAXIMUM OPENING SHALL BE CONTROLLED BY LIMITED HINGE MOVEMENT, A STOP TAB, OR SOME OTHER DEVICE
- ALTERNATIVE SHEAR GATE DESIGNS ARE ACCEPTABLE. IF MATERIAL SPECIFICATIONS ARE MET AND FLANGE BOLT PATTERN MATCHES. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER PRIOR TO PROCURING PRODUCT OR CONSTRUCTION

LIFT HANDLE

ADJUSTABLE LOCK HOOK WITH LOCKSCREW

1"Ø ROD OR TUBING

LIFT HANDLE ATTACHMENT

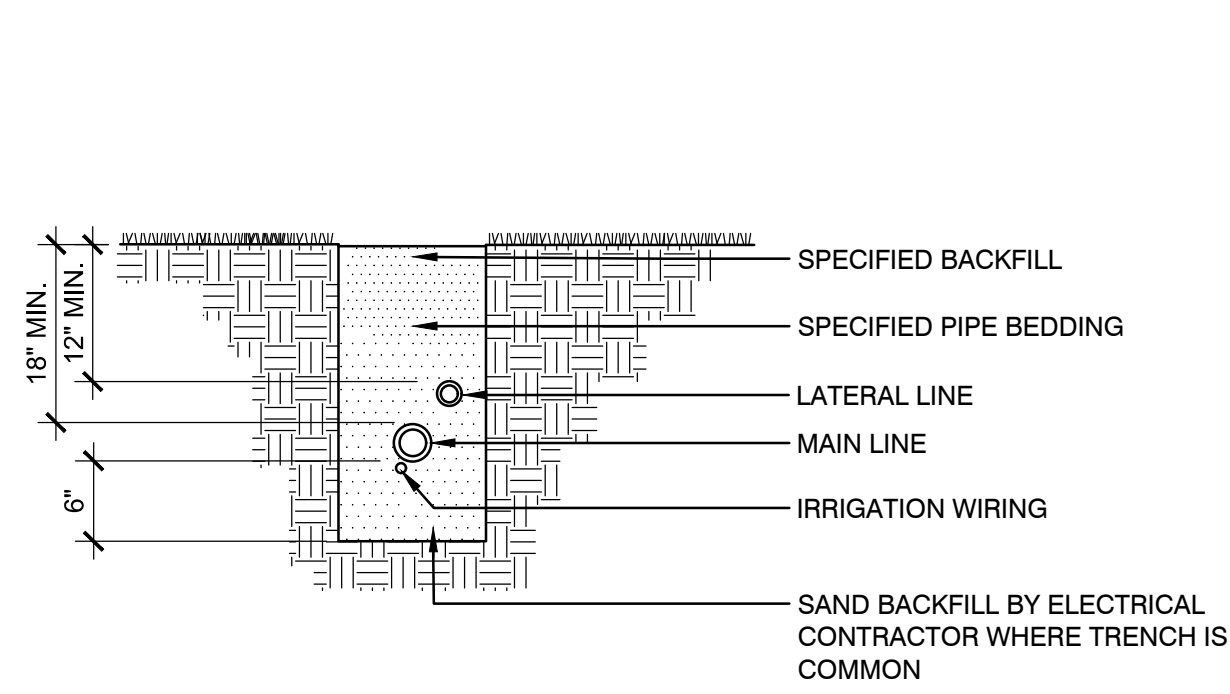
MAXIMUM OPENING

1/2" HOLES ON 10 3/8" BOLT CIRCLE

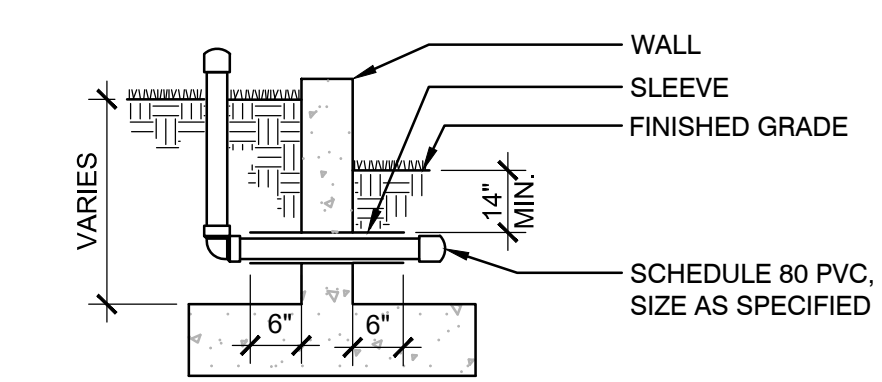
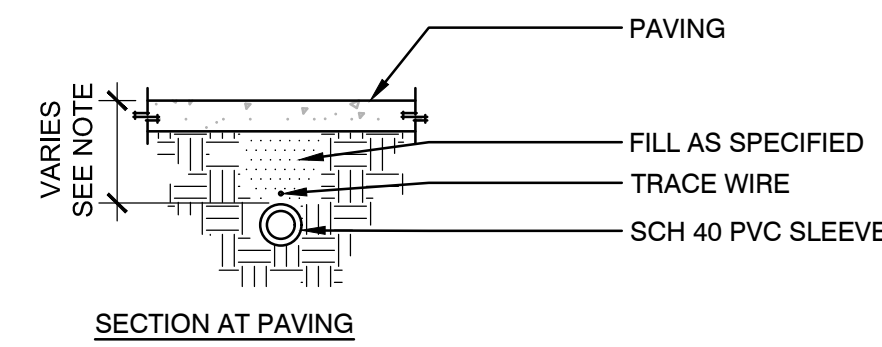
LEVEL LINE (SEE NOTE 5)

CLOSED

**3 SHEAR GATE** NTS



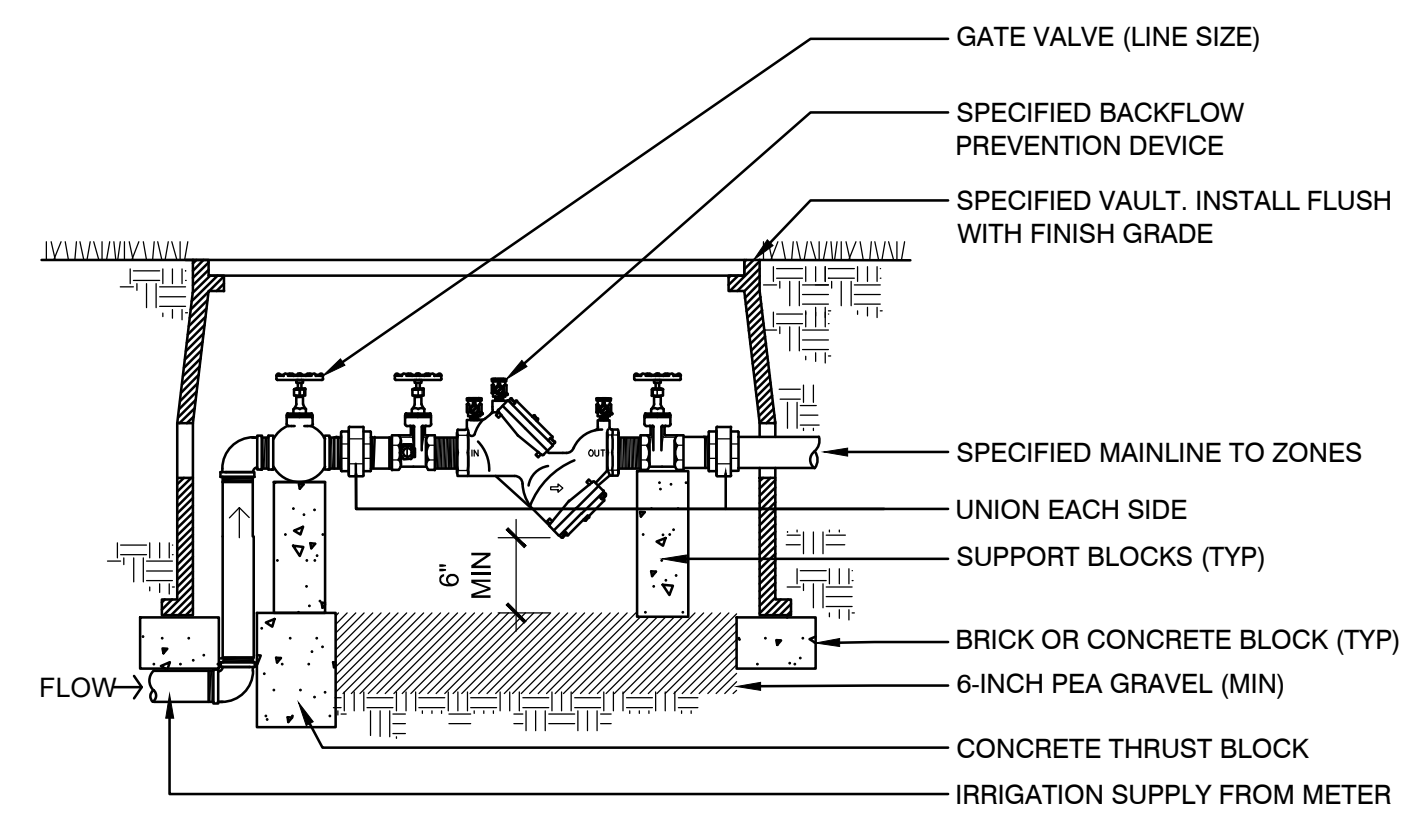
- NOTES:
1. SNAKE ALL PVC PIPING IN TRENCHING
  2. TIE LOOSE 3 FT LOOP IN ALL IRRIGATION WIRING AT CHANGES IN DIRECTION GREATER THAN 30 DEGREES. UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE.
  3. WHERE ELECTRICAL WIRING DOES NOT SHARE COMMON TRENCH, OVER EXCAVATE TRENCH 2 INCHES MIN AND BACKFILL WITH SPECIFIED BEDDING MATERIAL.
  4. LOCATE ALL WIRING NOT IN COMMON TRENCHES ACCURATELY ON RECORD DRAWINGS.



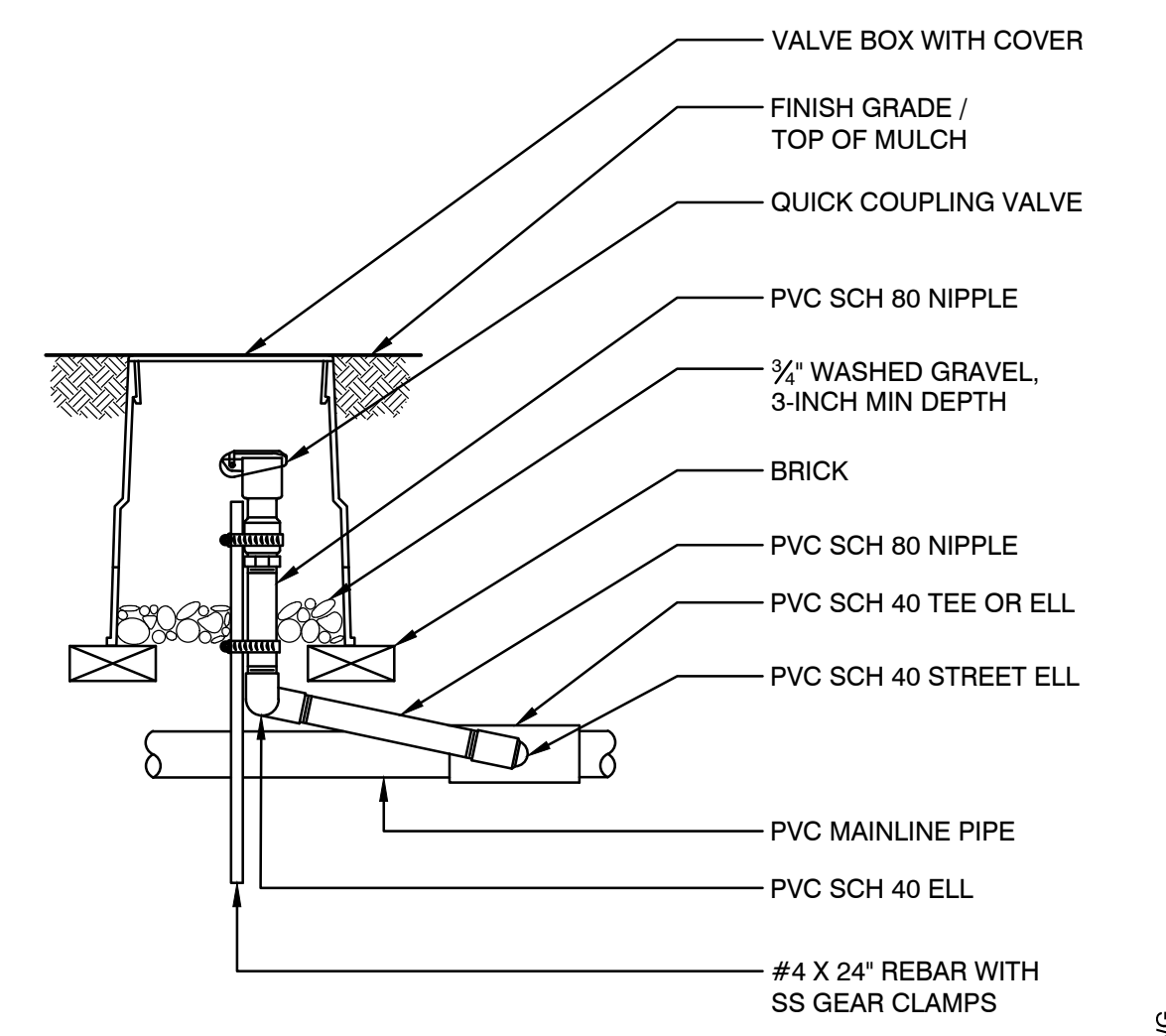
MIN DEPTH OF PIPE

MAINLINE	18"
LATERAL AT PAVING	14"
AT DRIVING SURFACE	24"

- NOTES:
1. SLEEVES TO BE TWICE DIAMETER OF LINE OR LINES PASSING THROUGH.
  2. EXTEND IRRIGATION SLEEVE 6-INCHES BEYOND EDGE OF PAVING, EACH SIDE.
  3. INSTALL SLEEVES AT SAME TIME AS WALL OR PAVING INSTALLATION.
  4. INSTALL PIPE IN SLEEVE BEFORE BACKFILLING AND CAP BOTH ENDS WITHOUT GLUE.

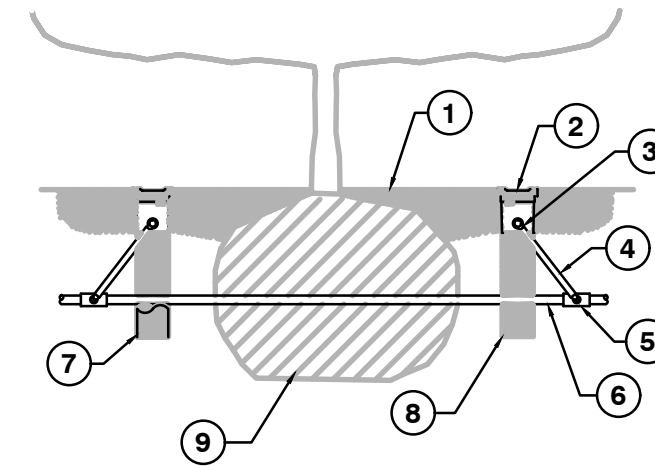


- NOTE:
- INSTALL BACKFLOW PREVENTOR PER CODE AND REQUIREMENTS OF PREVAILING JURISDICTIONS.



**1 IRRIGATION TRENCHING (TYP)**

SCALE: NTS



- 1 FINISH GRADE/TOP OF MULCH
- 2 ROOT WATERING SYSTEM: RAIN BIRD RWS-M
- 3 1/2" (1.3 cm) SPIRAL BARB FITTING (INCLUDED)
- 4 1/2" (1.3 cm) SWING ASSEMBLY: RAIN BIRD SA-125050 OR 1/2" (1.3 cm) SWING PIPE: RAIN BIRD SP SERIES WITH 1/2" (1.3 cm) MALE NPT x 0.490" BARB ELBOW: RAIN BIRD SBE-050
- 5 PVC SCH 40 TEE OR EL
- 6 PVC OR POLYETHYLENE LATERAL PIPE
- 7 OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS
- 8 4" (10.2 cm) WIDE x 18" (45.7 cm) LONG RIGID BASKET WEAVE CANISTER (INCLUDED)
- 9 PLANT ROOT BALL

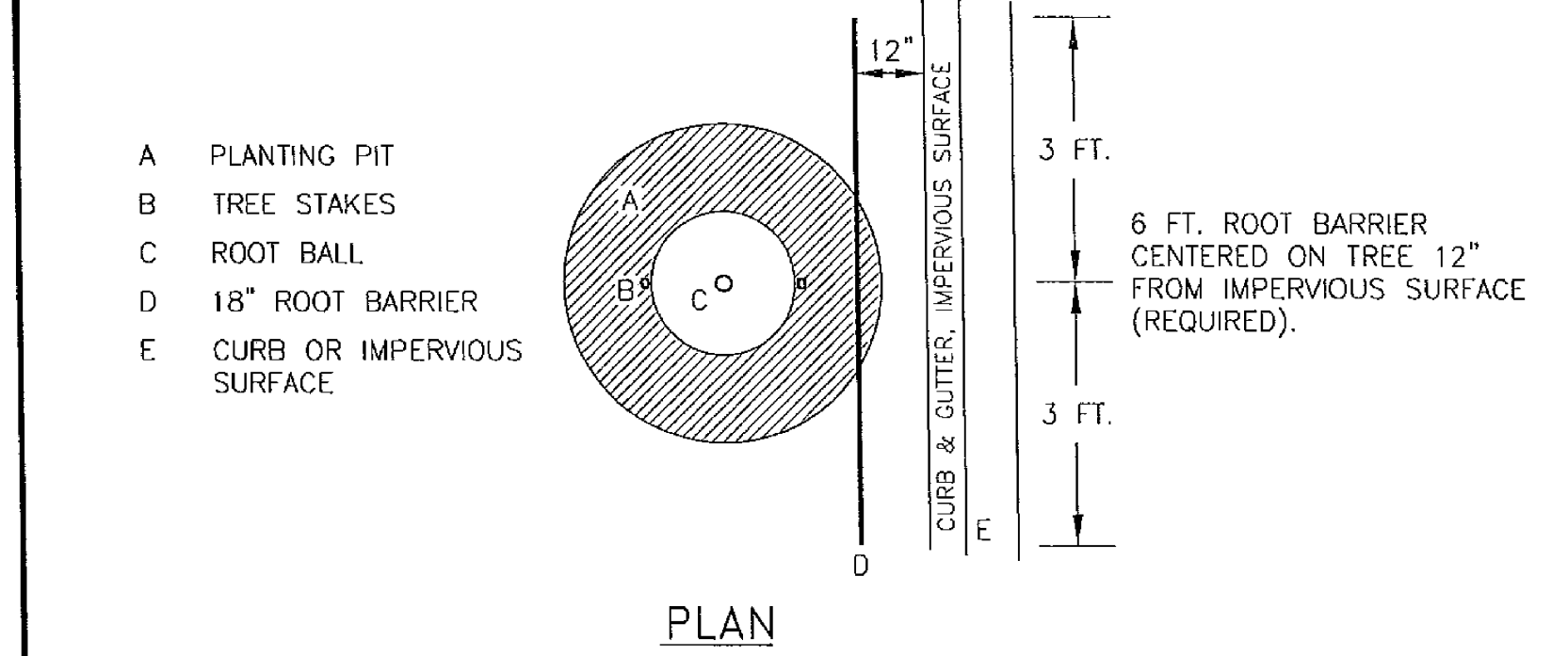
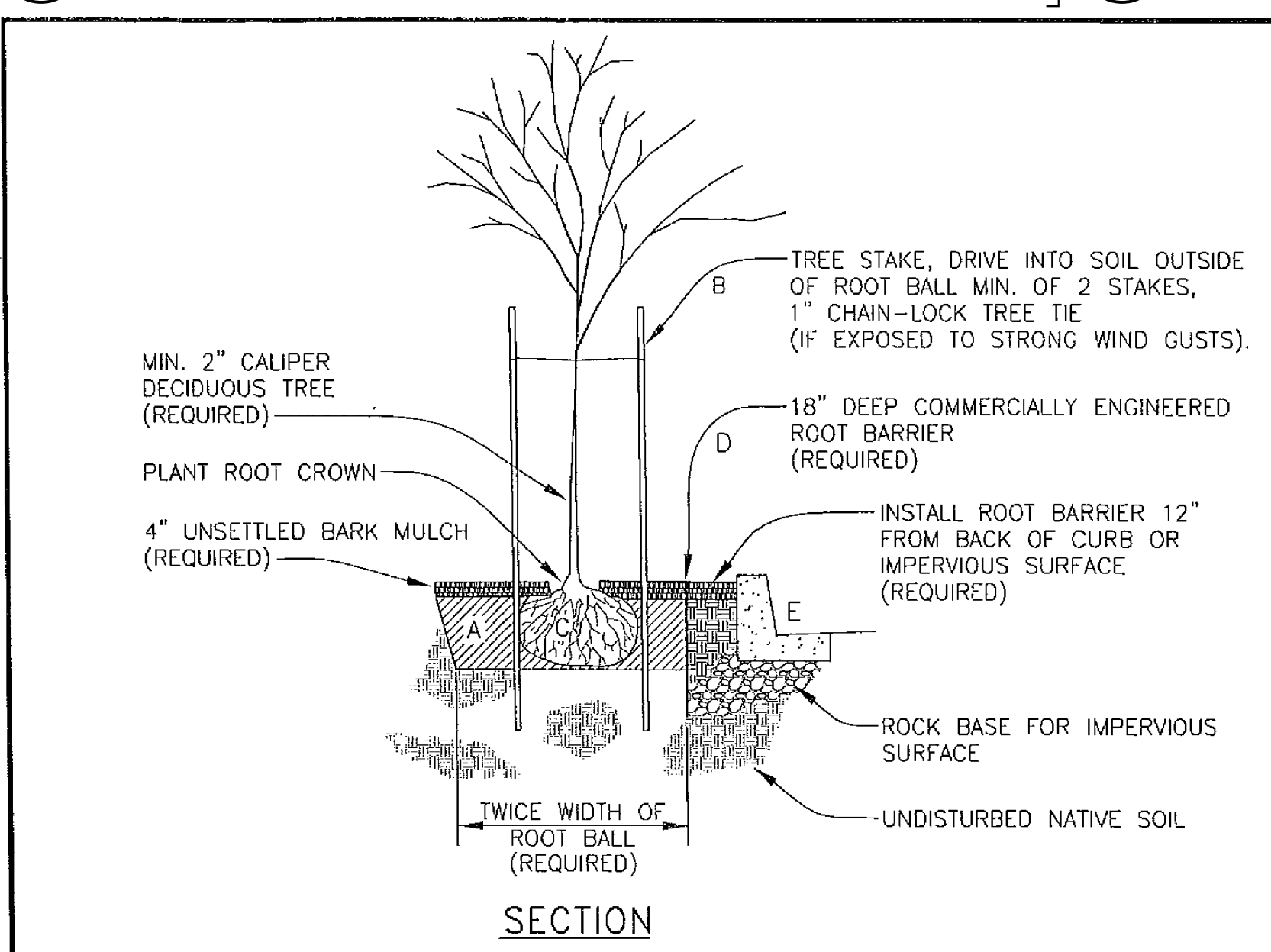
- NOTES:
1. POSITION 2-3 UNITS (OR MORE) EVENLY SPACED AROUND PLANT. FOR NEW TREES PLACE NEAR ROOT BALL. FOR EXISTING TREES PLACE HALF THE DISTANCE BETWEEN CANOPY EDGE AND TREE TRUNK.
  2. INSTALL PRODUCT WITH TOP EVEN WITH FINISH GRADE OR THE TOP OF MULCH
  3. RWS-M SERIES AVAILABLE IN THE FOLLOWING MODELS:  
RWS-M-B-C-1401: 0.25 GPM (0.95 L/M), CHECK VALVE  
RWS-M-B-1401: 0.25 GPM (0.95 L/M)  
RWS-M-B-C-1402: 0.5 GPM (1.9 L/M), CHECK VALVE  
RWS-M-B-1402: 0.5 GPM (1.9 L/M)
  4. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1.9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
  5. ONCE RWS-M HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.
  6. OPTIONAL RWS-SOCK FOR USE IN SANDY SOILS.

**5 A-RWS-S TREE INSTALLATION**

NOT TO SCALE FX-IR-RB-DRIP-15

**2 IRRIGATION SLEEVES**

SCALE: NTS



**3 DOUBLE CHECK VALVE BACKFLOW PREVENTOR (BELOW GRADE)**

SCALE: NTS

**4 QUICK COUPLER VALVE**

SCALE: NTS

**STREET TREE PLANTING  
NEW CONSTRUCTION**

REV: OCT. 2007  
SCALE: NTS  
DWG No. 1



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