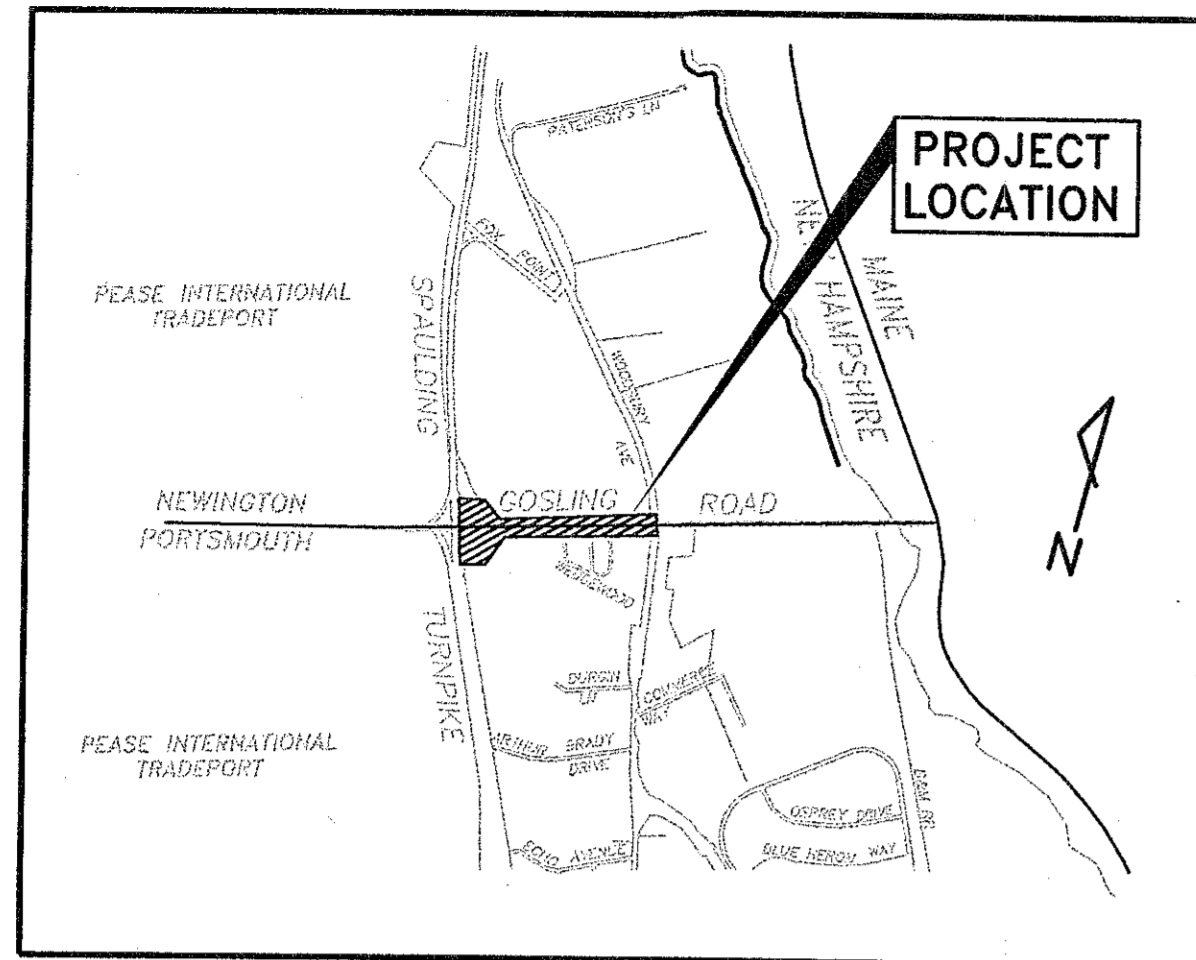


# CITY OF PORTSMOUTH

## WIDENING AND SIGNALIZATION PROJECT

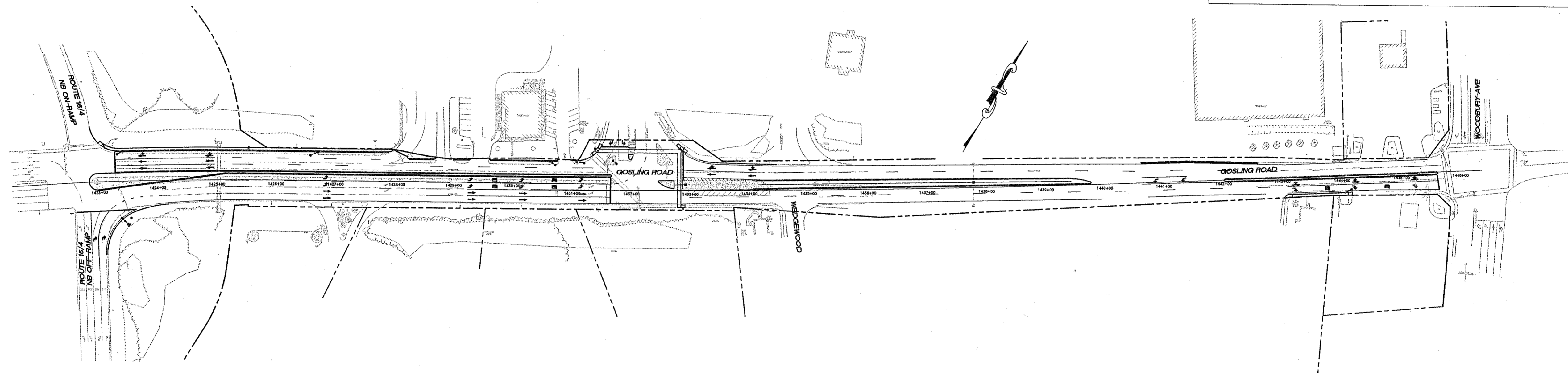
### PORTSMOUTH, NEW HAMPSHIRE GOSLING ROAD



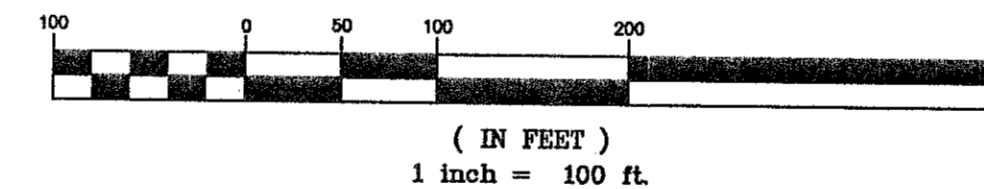
**LOCATION MAP**  
N.T.S.

#### INDEX OF SHEETS

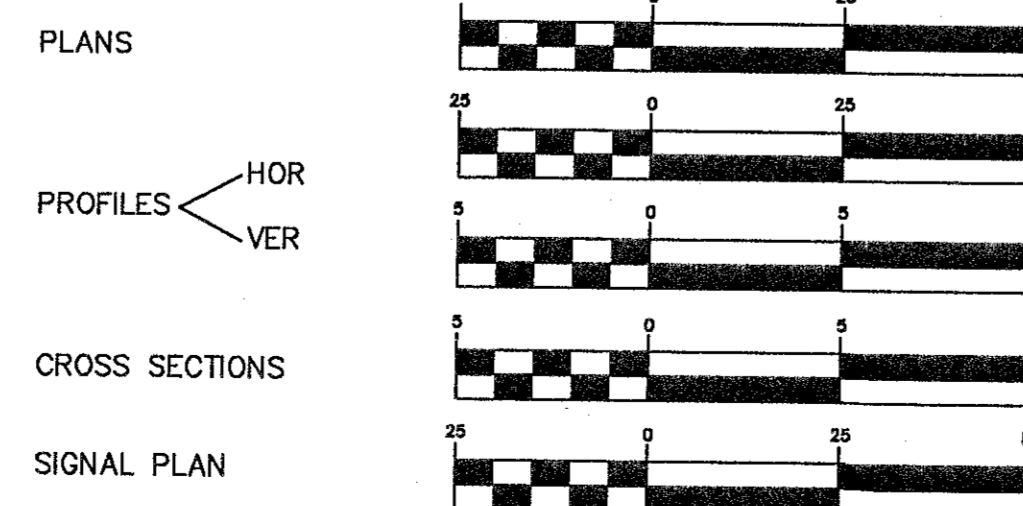
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	GENERAL NOTES & QUANTITIES
4-7	PLAN & PROFILE
8-10	PAVEMENT MARKING & SIGNAGE
11-13	TRAFFIC SIGNAL PLANS
14-25	CROSS SECTIONS
26-28	EXISTING CONDITIONS



#### GRAPHIC SCALE



#### SCALES



PLANS ARE FOR REVIEW PURPOSES ONLY. PLANS ARE NOT APPROVED FOR CONSTRUCTION. PROJECT IS CURRENTLY UNDER REVIEW BY THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION AND THE CITY OF PORTSMOUTH. THEIR REVIEW MAY RESULT IN SIGNIFICANT CHANGES TO THE PLANS. THIS NOTE APPLIES TO ALL SHEETS.

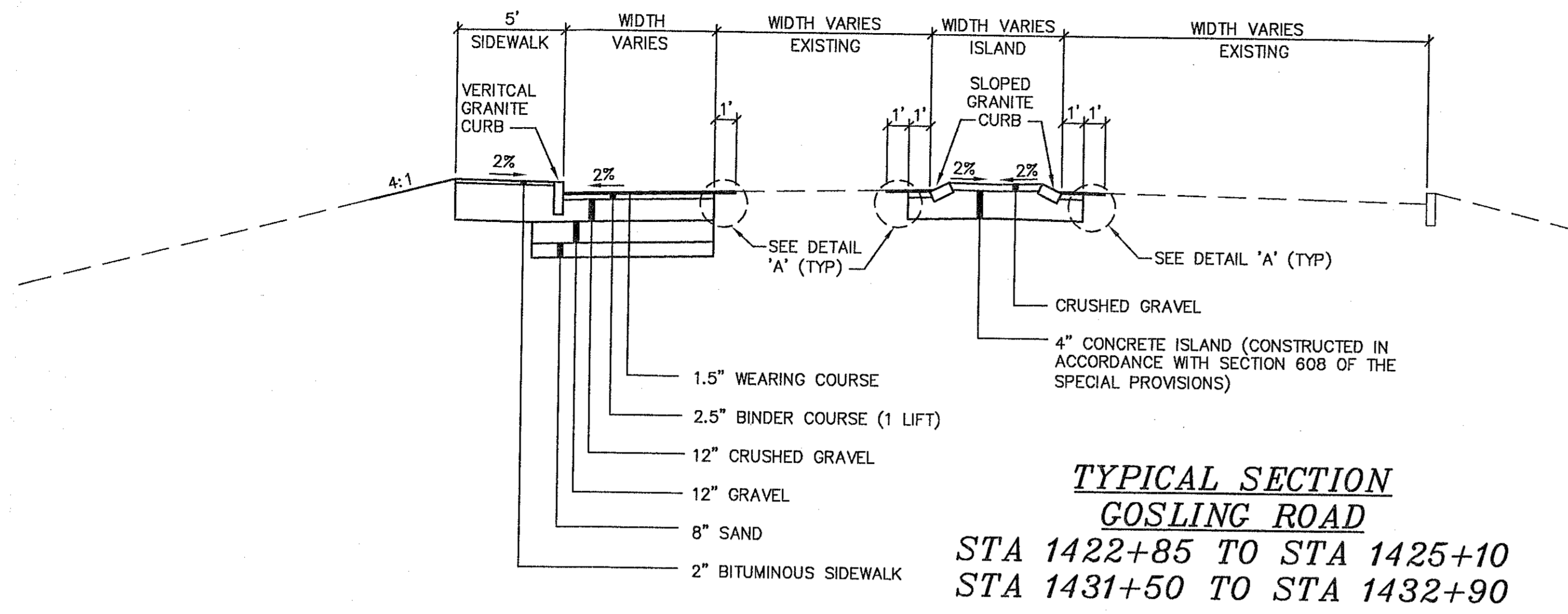
NOTE:  
ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE GOVERNED BY AND TO CONFORMITY WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2002, ANY SUPPLEMENTS THERETO, CURRENT NHDOT STANDARD AND SPECIAL PLANS.

Prepared By:

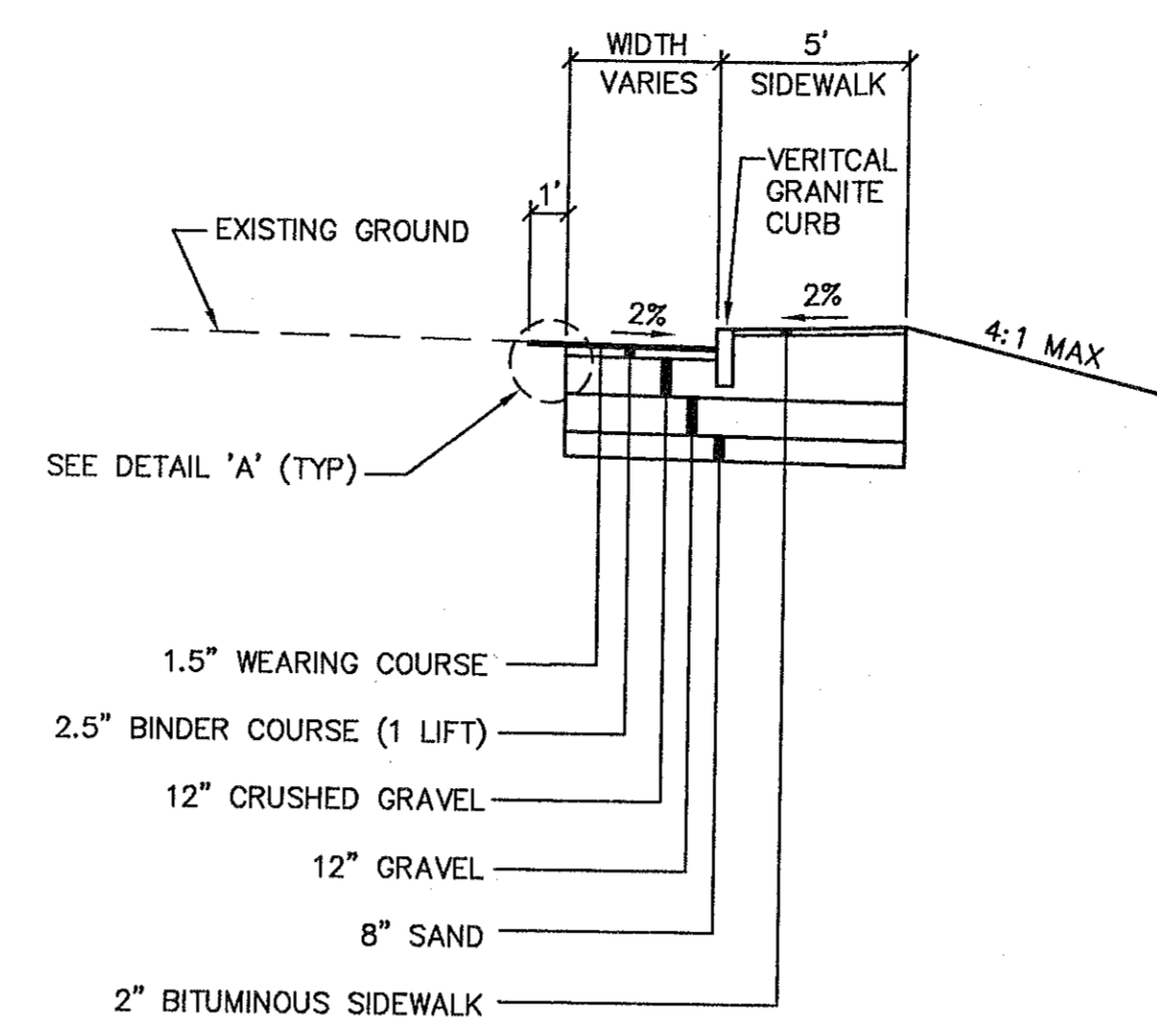
**GP** Gorrill-Palmer Consulting Engineers, Inc.  
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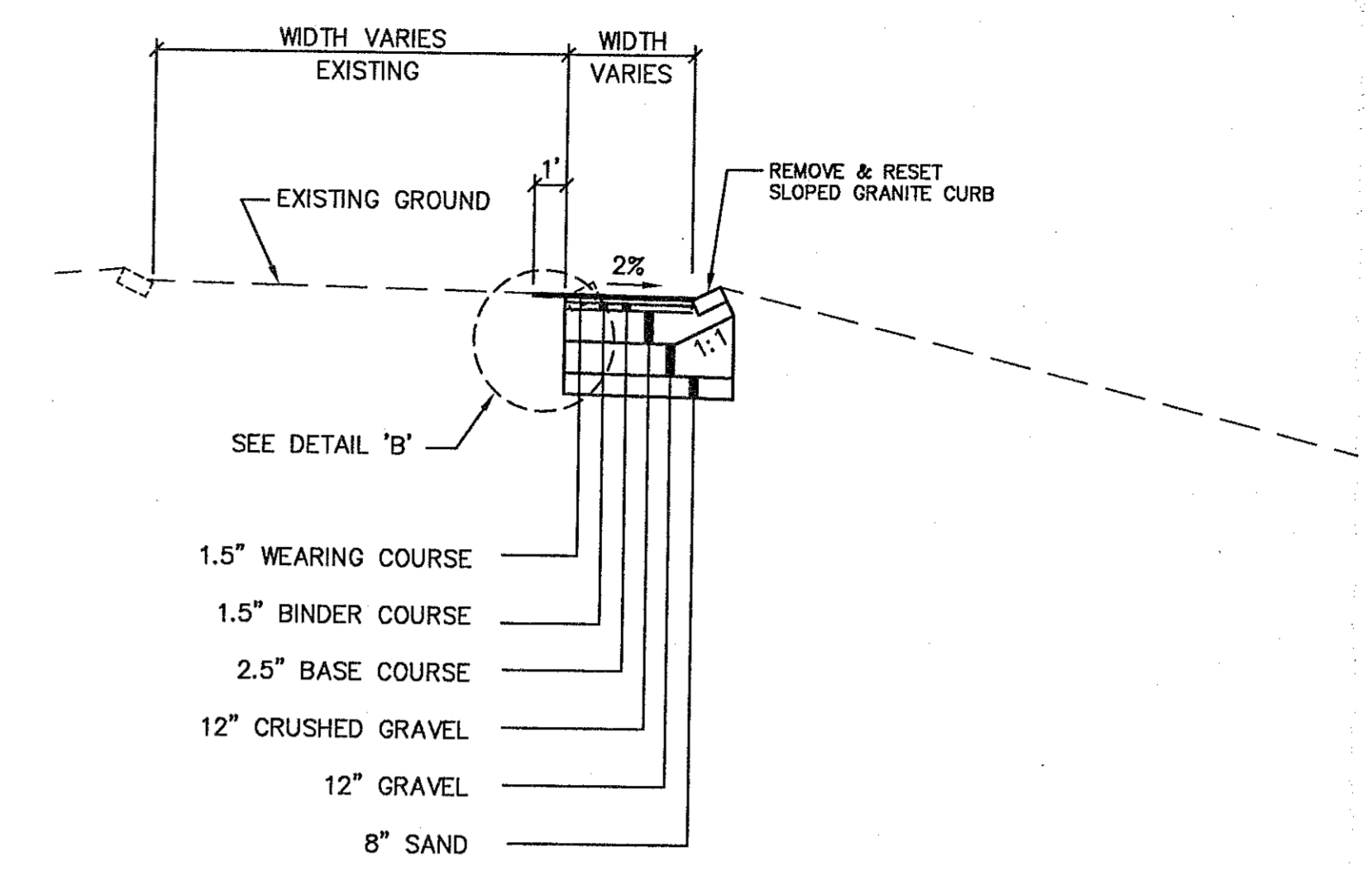




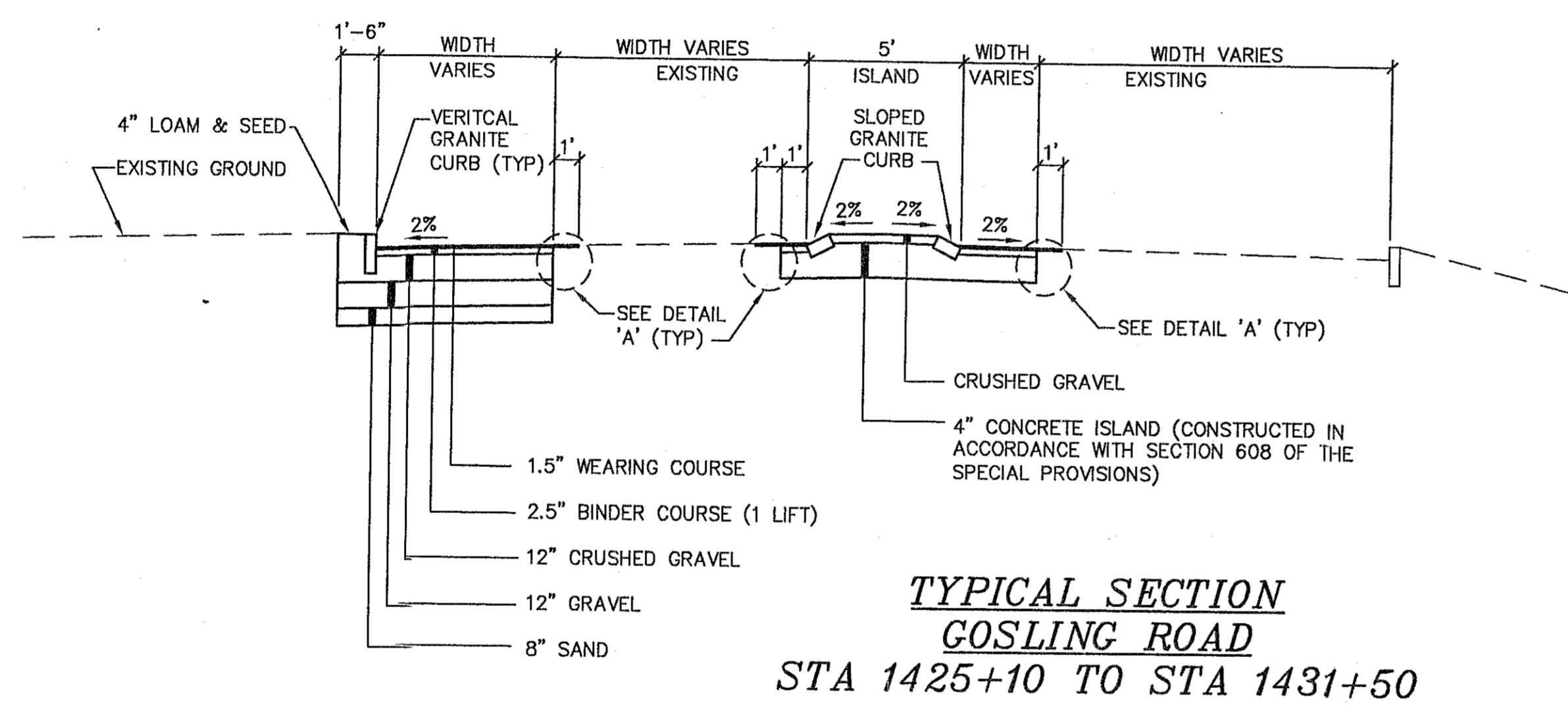
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GOSLING ROAD  
STA 1422+85 TO STA 1425+10  
STA 1431+50 TO STA 1432+90**



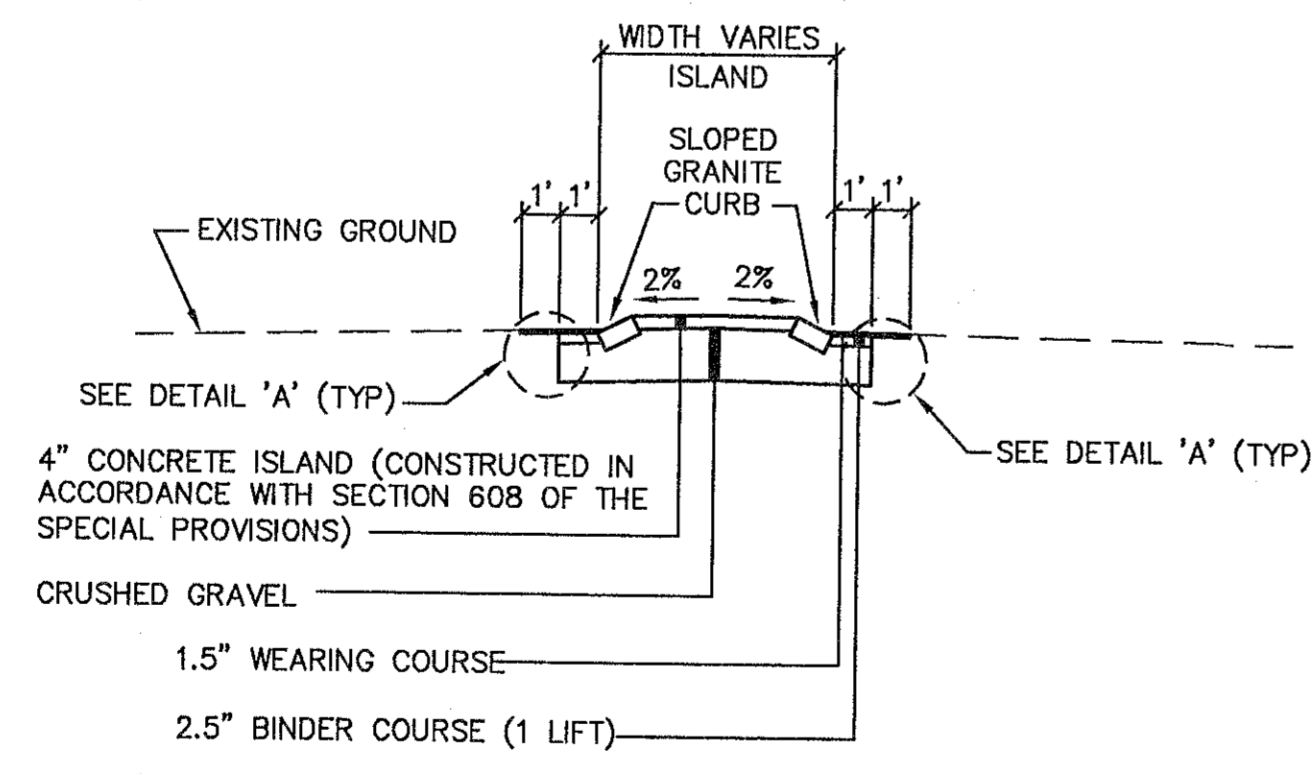
**TYPICAL SECTION  
GOSLING ROAD  
STA 1443+00 TO STA 1444+16**



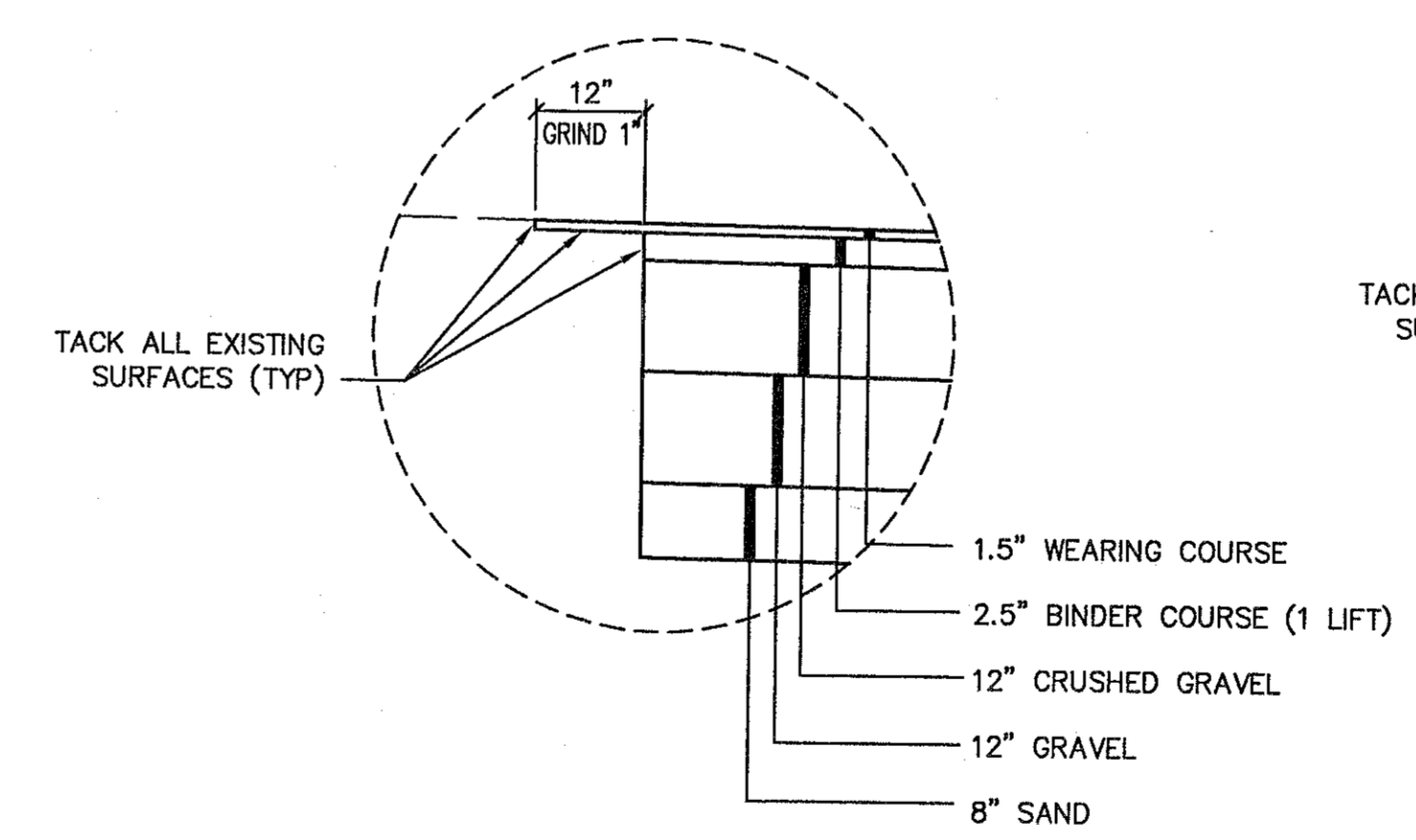
**TYPICAL SECTION  
RAMP  
STA 818+60 TO STA 819+55**



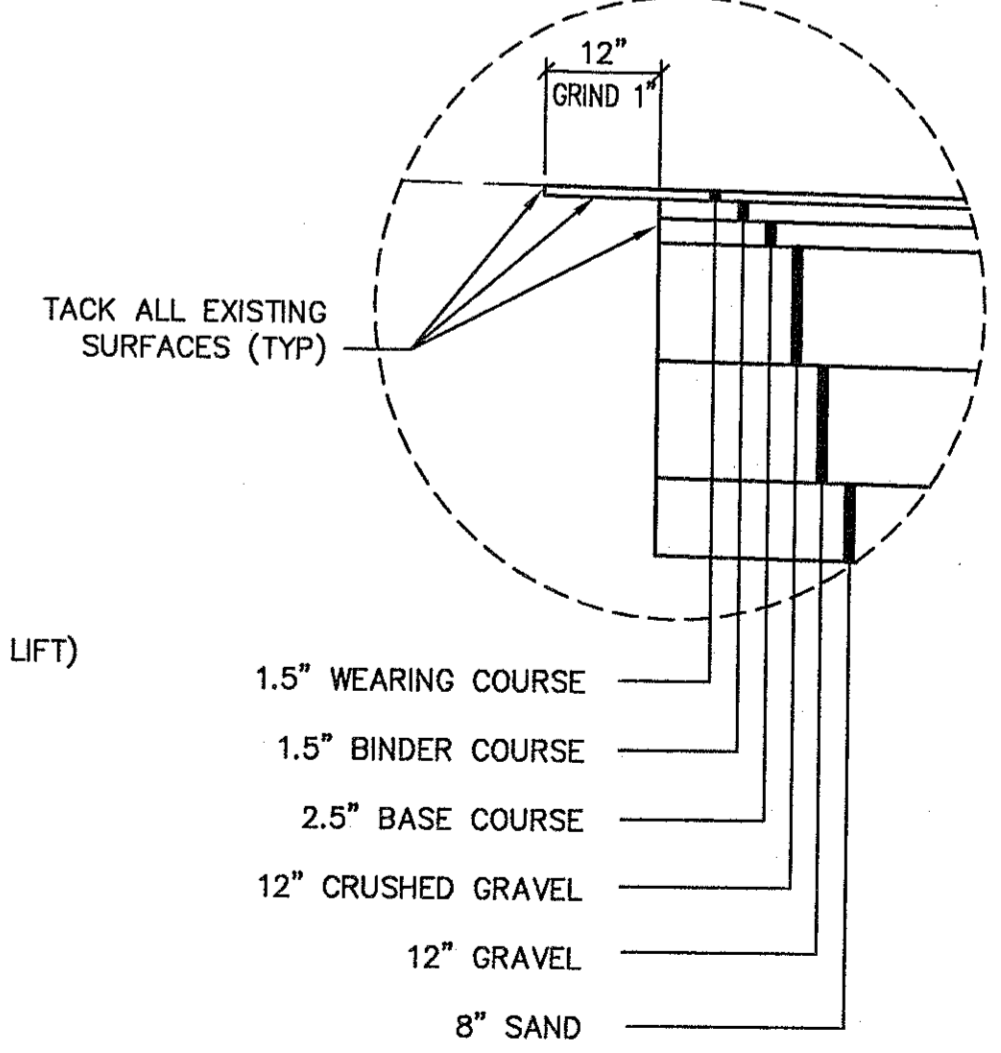
**TYPICAL SECTION  
GOSLING ROAD  
STA 1425+10 TO STA 1431+50**



**RAISED ISLAND DETAIL  
STA 1441+97 TO STA 1445+69  
STA 1434+02 TO STA 1439+74**



**DETAIL 'A'**



**DETAIL 'B'**

Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

CONSTRUCTION	7/22/05	TLG
BIDDING	6/15/05	TLG
FOR REVIEW	3/4/05	TLG
Issued For	Date	By

Design: RCN	Draft: LAN	Date: JAN 05
Checked: TLG	Scale: N.T.S.	Job No.: 832.02
File Name: 832_02-TYP.dwg		
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 207-657-6910 FAX: 207-657-6912  
 E-Mail: mail@gorrillpalmer.com

Drawing Name:	Typical Sections
Project:	GOSLING ROAD UPGRADE
Client:	City of Portsmouth 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No.  
**2**

**GENERAL NOTES**

1. THE NHDOT AND THE CITY OF PORTSMOUTH SHALL HAVE THE RIGHT AND AUTHORITY TO DETERMINE THE ACCEPTABILITY OF WORK AND MATERIAL IN PROGRESS OR COMPLETED. THE NHDOT AND THE CITY OF PORTSMOUTH SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIALS WHICH DO NOT CONFORM, IN ITS SOLE OPINION, TO THE PLANS OR SPECIFICATIONS.
2. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS DATED 2002, SUPPLEMENTAL SPECIFICATIONS (2001), CURRENT STANDARD, AND SPECIAL PLANS.
3. ADJUSTING, ALTERING AND RELOCATING THE PROPERTY OF ANY PUBLIC UTILITY SHALL BE DONE BY THE OWNER, NOT AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IN THE PERFORMANCE OF THE WORK.
4. UNSUITABLE MATERIAL, ROOTS AND STUMPS WITHIN THE LIMITS OF THE ROAD BED SHALL BE REMOVED.
5. THE SUBGRADE SHALL BE SCARIFIED TO ASSURE THAT ALL BOULDERS AND COBBLES OVER 6 INCHES ARE REMOVED WITHIN 36" INCHES OF FINISHED GRADE.
6. ALL WORK SHALL BE PERFORMED WITHIN THE RIGHT OF WAY UNLESS OTHERWISE NOTED ON THE PLANS.
7. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES.
8. THE CONTRACTOR MUST USE THE STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS AS A MINIMUM. THIS WORK SHALL INCLUDE THE INSTALLATION OF EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION AND THE REMOVAL OF EROSION CONTROL MEASURES AFTER THE SLOPES ARE STABILIZED AND SUPPORTING VEGETATION.
9. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
10. CATCH BASINS SHALL BE NHDOT TYPE 'B' ALTERNATE WITH 3-FLANGE CASTINGS.
11. UNLESS OTHERWISE NOTED, ALL STORM DRAIN PIPE SHALL BE IN ACCORDANCE WITH NHDOT SPECIFICATIONS.
12. ALL TRAFFIC SIGNS/MARKERS SHALL BE MOUNTED WITH NHDOT APPROVED BREAKAWAY DEVICES.
13. CURB TRANSITION SECTIONS SHALL BE USED TO TRANSITION FROM VERTICAL TO SLOPED GRANITE WHERE VERTICAL CURB MEETS SLOPED DRIVEWAY CURBING TO REMAIN.
14. ANY RELOCATION OR ADJUSTMENTS OF THE UTILITY FACILITIES WILL BE MADE BY THE RESPECTIVE UTILITIES IN COORDINATION WITH THE WORK BEING CONDUCTED BY THE CONTRACTOR.
15. IF ANY ITEMS TO BE REMOVED AND RESET ARE DAMAGED DURING REMOVAL, STORAGE OR RESETING, THE DAMAGED MATERIALS SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF PORTSMOUTH AND NHDOT AT NO ADDITIONAL COST.
16. VERTICAL GRANITE TERMINAL END SECTIONS SHALL BE USED AT THE LOCATIONS AT WHICH VERTICAL GRANITE CURB BEGINS OR ENDS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NHDOT TRENCH/EXCAVATION OPENING PERMITS WHICH MAY BE REQUIRED.
18. EXISTING CATCH BASINS, DROP INLETS, WATER VALVE BOXES, PULL BOXES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO THE PROPOSED PAVEMENT.
19. ALL DIMENSIONS AND OFFSETS ARE MEASURED TO THE CONSTRUCTION BASE LINE.
20. ALL DISTURBED SLOPE AREAS SHALL BE LOAMED AND SEEDED WITH A MINIMUM OF 4" OF LOAM.
21. DISPOSITION OF SURPLUS MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SURPLUS MATERIAL SHALL NOT BE DISPOSED OF ON THE PROJECT SITE. DISPOSITION SHALL BE MADE ONLY AT WASTE AREAS WHICH ARE LICENSED TO ACCEPT SUCH MATERIALS, UNLESS THE MATERIALS CAN BE INCORPORATED IN FILLS IN OTHER PROJECTS OF THE CONTRACTOR.
22. THE CONTRACTOR SHALL SUBMIT A PLAN TO CONTROL TRAFFIC DURING THE PERIOD OF CONSTRUCTION OF THE TRAFFIC IMPROVEMENTS TO THE NHDOT AND THE CITY OF PORTSMOUTH FOR APPROVAL WHICH CONFORMS TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS." THE CONTRACTOR MUST MAINTAIN TWO-WAY TRAFFIC FLOW AT ALL TIMES.
23. THE CONTRACTOR SHALL PROVIDE NHDOT AND THE CITY OF PORTSMOUTH WITH A SCHEDULE OF WORK FOR CONSTRUCTING THE TRAFFIC IMPROVEMENTS.
24. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR THE ELEVATION OF THE EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. UNDERGROUND FACILITIES INDICATED ON THE CROSS SECTIONS HAVE BEEN CARRIED OVER FROM THE PLAN VIEW DATA AND MAY ALSO INCLUDE FURTHER APPROXIMATIONS OF THE ELEVATIONS (DEPTHS) BASED UPON STRAIGHT LINE INTERPOLATION FROM THE NEAREST MANHOLES, GATE VALVES, OR TEST PITS. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AND DIG SAFE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE ENGINEER HAS COORDINATED THE PROPOSED WORK WITH THE AFFECTED UTILITY COMPANIES TO ARRANGE FOR REQUIRED RELOCATION OF THEIR KNOWN FACILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK AND SCHEDULE AND THE UTILITY RELOCATION WORK WITH THE PROPER UTILITY COMPANY.
25. OFFSETS TO CATCH BASINS AND MANHOLES ARE TO THE CENTER OF THE COVER OR GRATE.
26. EXISTING CONDITIONS BASED ON SURVEY COMPLETED BY JAMES VERRA & ASSOCIATES, INC.
27. CONSTRUCTION SHALL NOT COMMENCE UNTIL AUTHORIZED BY THE NHDOT AND THE CITY OF PORTSMOUTH.
28. ALL STORM DRAIN (SD) SHALL BE PLASTIC PIPE WITH SMOOTH INTERIOR.
29. ALL ADA RAMPS SHALL HAVE 24"x 36" MODULAR TRUNCATED DOME DETECTABLE WARNING SYSTEMS, YELLOW IN COLOR MANUFACTURED BY ARMOR-TILE.
30. ALL ADA RAMPS SHALL BE CONSTRUCTED WITH CONCRETE
31. ALL LONGITUDINAL LINES, LANE USE SYMBOLS, STOP LINES AND CROSSWALKS SHALL BE PAINT.
32. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCIDENTAL TO THE PAVEMENT MARKING ITEMS 632.0104 AND 632.02.
33. ALL EXISTING STRAIGHT VERTICAL AND SLOPED CURB SHOULD BE RESET. THIS WORK SHALL BE PAID FOR UNDER ITEM 609.5. ALL OTHER CURB SHALL BE REMOVED. REMOVAL OF CURB SHALL BE INCIDENTAL TO THE CONTRACT ITEMS.
34. ALL PROPOSED WORK SHALL BE CONSTRUCTED OUTSIDE OF THE DELINEATED JURISDICTIONAL WETLANDS. IF CONTRACTOR NEEDS TO IMPACT THE DELINEATED WETLAND BOUNDARY, THEN A NHDES WETLANDS PERMIT WILL NEED TO BE OBTAINED BY THE CONTRACTOR.

Item	Item Description	Unit	Quantity
202	REMOVAL OF CONCRETE ISLANDS	SY	900
202	REMOVAL OF PAVEMENT	SY	2110
202.6	CURB REMOVAL FOR STORAGE	LF	2215
203.1	COMMON EXCAVATION	CY	1285
206.2	STRUCTURAL ROCK EXCAVATION	CY	10
304.1	SAND	CY	235
304.2	GRAVEL	CY	355
304.3	CRUSHED GRAVEL	CY	1410
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	TON	165
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	475
417	COLD PLANNING	SY	630
583.4	RIPRAP	CY	1
603	SLOTTED DRAIN WITH 12" PIPE	LF	525
603.00212	12" R.C. PIPE	LF	10
603.83212	12" PLASTIC PIPE (SMOOTH INTERIOR)	LF	60
604.12	CATCH BASIN TYPE B	U	8
604.55	ADJUSTING MANHOLE COVERS AND FRAMES	U	8
604.6	MANHOLE COVERS & FRAMES	U	5
607.655	CHAIN LINK FENCE WITH PVC COATING	LF	70
608	TRUNCATED DOMES	SF	25
608.12	2" BITUMINOUS SIDEWALK	SY	370
608.24	4" CONCRETE SIDEWALK	SY	1980
609.01	STRAIGHT GRANITE CURB	LF	300
609.02	CURVED GRANITE CURB	LF	150
609.21	STRAIGHT GRANITE SLOPE CURB	LF	1965
609.219	STRAIGHT GRANITE SLOPE CURB 9" HIGH	LF	135
609.23	CURVED GRANITE SLOPE CURB	LF	60
609.239	CURVED GRANITE SLOPE CURB 9" HIGH	LF	10
609.5	RESET GRANITE CURB	LF	2215
614	RELOCATE CONDUIT AND JUNCTION BOXES	LF	10
614.512	CONCRETE PULL BOX - 18 INCH	EA	12
614.7218	2" PVC CONDUIT, SCH 80	LF	425
614.7314	3" PVC CONDUIT, SCH 40	LF	185
614.7318	3" PVC CONDUIT, SCH 80	LF	235
615	RELOCATE AND MODIFY OVERHEAD SIGNS	U	-
615.03	TRAFFIC SIGN, TYPE C	SF	115
615.033	REMOVE SIGN, TYPE C	U	4
616.191	TRAFFIC SIGNAL MODIFICATION @ NB OFF RAMP	U	-
616.192	TRAFFIC SIGNAL MODIFICATION @ MALL DRIVEWAY	U	-
616.193	TRAFFIC SIGNAL MODIFICATION @ WOODBURY AVE.	U	-
616.65	TRAFFIC SIGNAL LOOP DETECTORS	U	12
618.7	FLAGGERS	HR	1000
619.1	MAINTENANCE OF TRAFFIC	U	-
619.253	VARIABLE MESSAGE SIGN	WK	5
621.31	SINGLE DELINATOR WITH POST	EA	70
625	RELOCATE HIGHWAY LIGHTING	U	-
628.2	SAWED BITUMINOUS PAVEMENT	LF	5650
632.0104	RETROREFLECTIVE PAINT PVMT. MARKING, 4" LINE	LF	14340
632.02	RETROREFLECTIVE PAVEMENT MARKING, SYMBOL	SF	1495
632.9104	OBLITERATE PAVEMENT MARKING, 4" LINE	LF	10000
632.92	OBLITERATE PAVEMENT MARKING, SYMBOL	SF	475
641	LOAM	CY	100
644.15	PARK SEED TYPE 15	LBS.	20
645.7	EROSION AND SEDIMENT CONTROL	U	-
	STORMWATER MANAGEMENT		
692	MOBILIZATION	U	-

Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

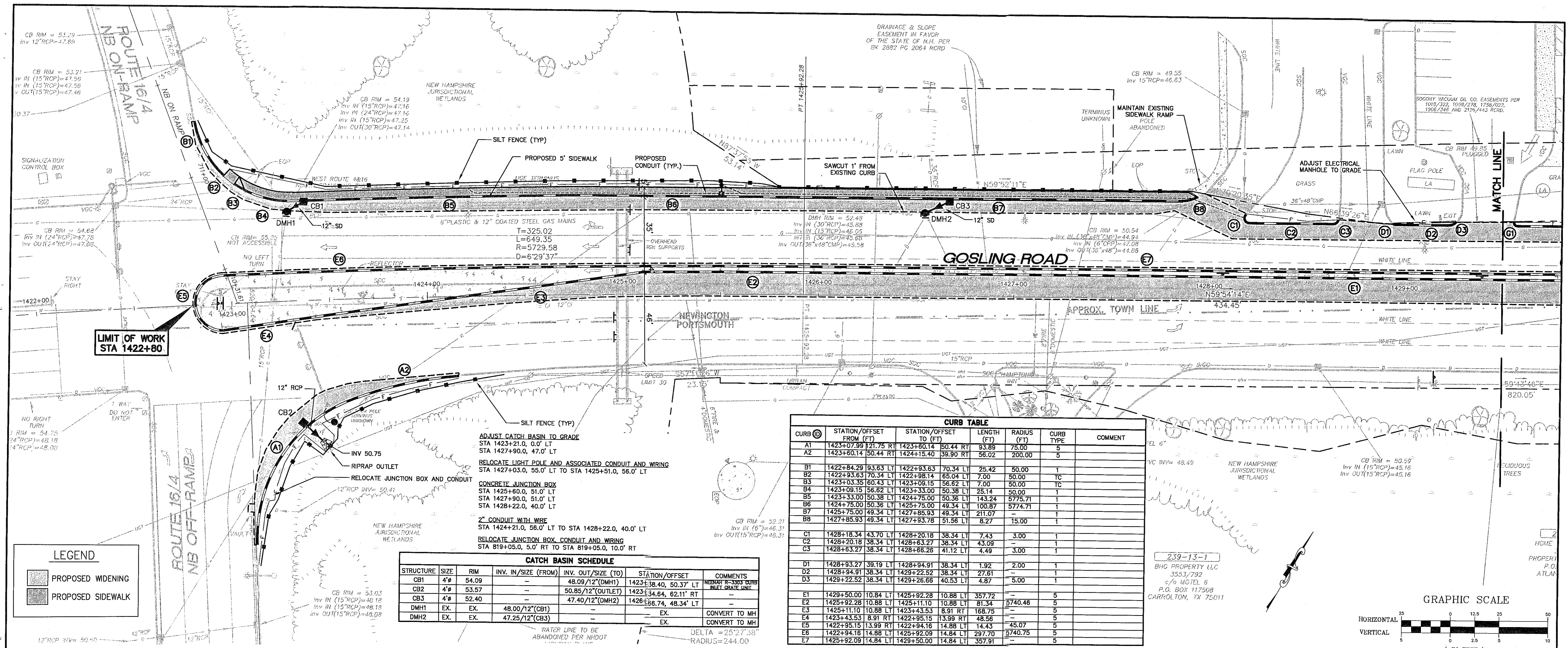
CONSTRUCTION	7/22/05	TLG
BIDDING	6/15/05	TLG
FOR REVIEW	3/4/05	TLG
Issued For	Date	By

Design: RCN	Draft: DB	Date: MAR 2005
Checked: TLG	Scale: N.T.S.	Job No.: 832.02
File Name: 832-02_GENNOTES.dwg		
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 Traffic and Civil Engineering Services  
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 E-Mail: mailbox@gorrillpalmer.com

Drawing Name:	<b>General Notes &amp; Quantities</b>
Project:	<b>GOSLING ROAD UPGRADE</b>
Client:	<b>City of Portsmouth</b> 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No.	<b>3</b>
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**CURB TABLE**

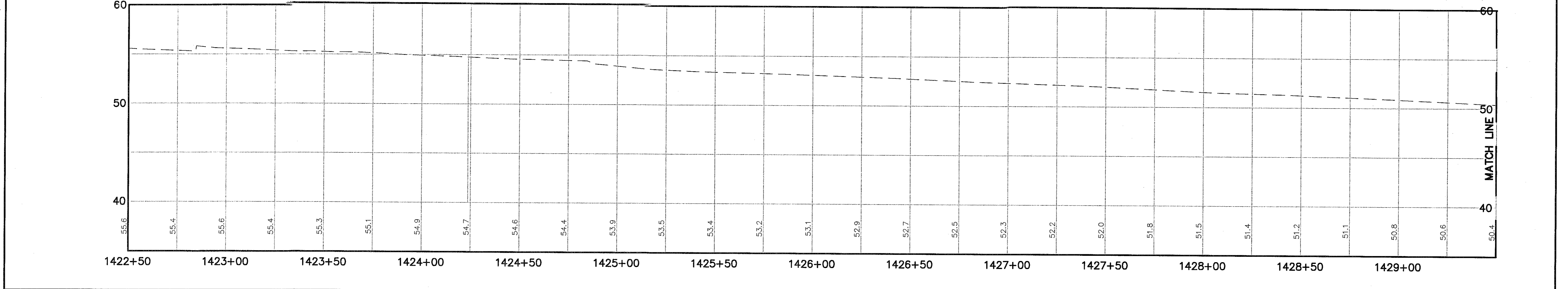
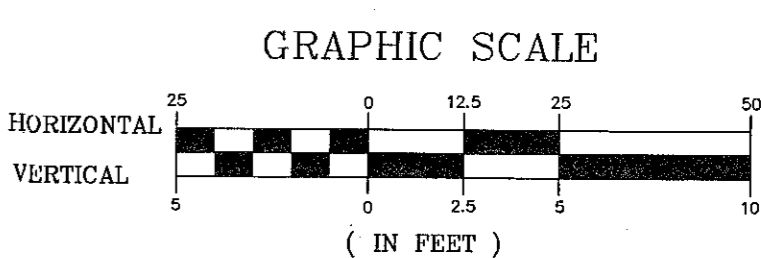
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A1	1423+07.99	1423+00.14	50.44 RT	93.89	75.00	5
A2	1423+60.14	1424+15.40	39.90 RT	56.02	200.00	5
B1	1422+84.29	1422+93.63	70.34 LT	25.42	50.00	1
B2	1422+93.63	1422+98.14	65.04 LT	7.00	50.00	TC
B3	1423+03.35	1423+09.15	56.82 LT	7.00	50.00	TC
B4	1423+09.15	1423+33.00	50.36 LT	25.14	30.00	1
B5	1423+33.00	1424+75.00	50.36 LT	143.24	5775.71	1
B6	1424+75.00	1425+75.00	49.34 LT	100.87	5774.71	1
B7	1425+75.00	1427+85.93	49.34 LT	211.07	-	1
B8	1427+85.93	1427+93.78	51.56 LT	8.27	15.00	1
C1	1428+18.34	1428+20.18	38.34 LT	7.43	3.00	1
C2	1428+20.18	1428+63.27	38.34 LT	43.09	-	1
C3	1428+63.27	1428+66.25	41.12 LT	4.49	3.00	1
D1	1428+93.27	1428+94.91	38.34 LT	1.92	2.00	1
D2	1428+94.91	1429+22.52	38.34 LT	27.61	-	1
D3	1429+22.52	1429+26.68	40.53 LT	4.87	5.00	1
E1	1429+50.00	10.84 LT	1425+92.28	10.88 LT	357.72	-
E2	1425+92.28	10.88 LT	1425+11.10	10.88 LT	81.34	5740.46
E3	1425+11.10	10.88 LT	1423+43.53	8.91 RT	168.75	-
E4	1423+43.53	8.91 RT	1422+95.15	13.99 RT	48.56	-
E5	1422+95.15	13.99 RT	1422+94.16	14.88 LT	14.43	-
E6	1422+94.16	14.88 LT	1425+92.09	14.84 LT	237.70	-
E7	1425+92.09	14.84 LT	1428+50.00	14.84 LT	337.91	-

**CATCH BASIN SCHEDULE**

STRUCTURE	SIZE	RIM	INV. IN./SIZE (FROM)	INV. OUT./SIZE (TO)	STATION/OFFSET	COMMENTS
CB1	4'x	54.09	-	48.09/12"(DMH1)	1423+38.40, 50.37' LT	NEIGHBOR 18-3303 CURB INLET GRADE LINE
CB2	4'x	53.57	-	50.85/12"(OUTLET)	1423+34.64, 62.11' RT	-
CB3	4'x	52.40	-	47.40/12"(DMH2)	1426+86.74, 48.34' LT	-
DMH1	EX.	EX.	48.00/12"(CB1)	-	EX.	CONVERT TO MH
DMH2	EX.	EX.	47.25/12"(CB3)	-	EX.	CONVERT TO MH

**LEGEND**

- PROPOSED WIDENING
- PROPOSED SIDEWALK



Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

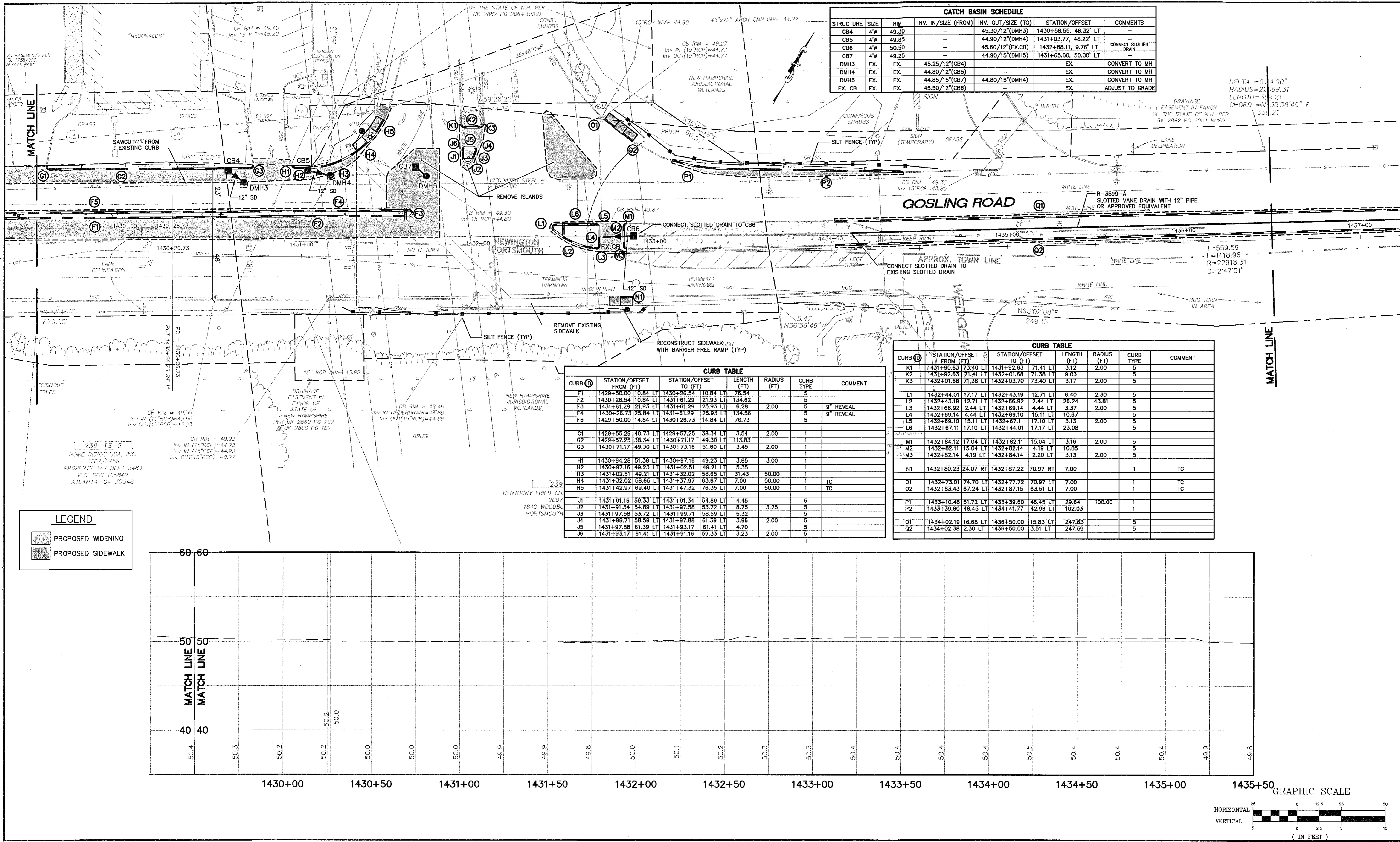
CONSTRUCTION	Date	By
BIDDING	7/22/05	TLG
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Issued For	3/4/05	TLG

Design: RCN Draft: LAN Date: JAN 05  
 Checked: TLG Scale: 1"=25' Job No.: 832.02  
 File Name: 832-02-GEO.dwg  
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 Gray, ME 04039 E-Mail: mailbox@gorrillpalmer.com

Drawing Name: **Geometric Plan & Profile**  
 Project: **GOSLING ROAD UPGRADE**  
 Client: **City of Portsmouth**  
 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No. **4**

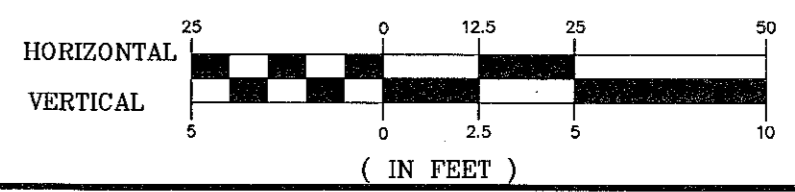
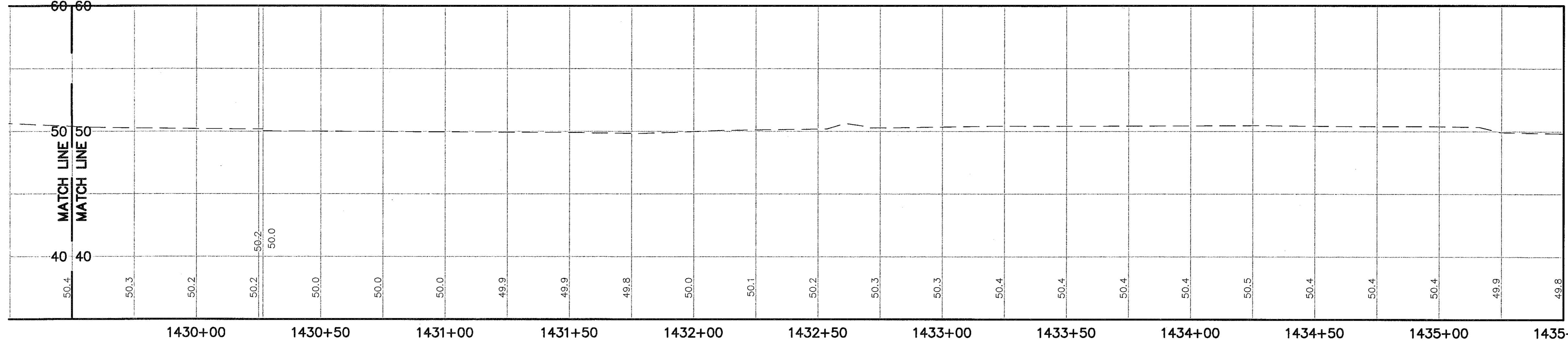


CATCH BASIN SCHEDULE						
STRUCTURE	SIZE	RIM	INV. IN/SIZE (FROM)	INV. OUT/SIZE (TO)	STATION/OFFSET	COMMENTS
CB4	4'	49.30	-	45.30/12"(DMH3)	1430+58.55, 48.32' LT	-
CB5	4'	49.05	-	44.90/12"(DMH4)	1431+03.77, 48.22' LT	CONNECT SLOTTED DRAIN
CB6	4'	50.50	-	45.60/12"(EX.CB)	1432+88.11, 9.76' LT	-
CB7	4'	49.25	-	44.90/15"(DMH5)	1431+65.00, 50.00' LT	-
DMH3	EX.	EX.	45.25/12"(CB4)	-	EX.	CONVERT TO MH
DMH4	EX.	EX.	44.80/12"(CB5)	-	EX.	CONVERT TO MH
DMH5	EX.	EX.	44.85/15"(CB7)	44.80/15"(DMH4)	EX.	CONVERT TO MH
EX. CB	EX.	EX.	45.60/12"(CB6)	-	EX.	ADJUST TO GRADE

CURB TABLE						
CURB ID	STATION/OFFSET FROM (FT)	STATION/OFFSET TO (FT)	LENGTH (FT)	RADIUS (FT)	CURB TYPE	COMMENT
F1	1429+50.00	110.84 LT	1430+26.54	10.84 LT	76.54	5
F2	1430+26.54	110.84 LT	1431+61.29	21.93 LT	134.62	5
F3	1431+61.29	21.93 LT	1431+61.29	25.93 LT	6.28	2.00
F4	1430+26.73	25.84 LT	1431+61.29	25.93 LT	134.56	5
F5	1429+50.00	14.84 LT	1430+26.73	14.84 LT	76.73	5
G1	1429+55.29	40.73 LT	1429+57.25	38.34 LT	3.54	2.00
G2	1429+57.25	38.34 LT	1430+71.17	49.30 LT	113.83	1
G3	1430+71.17	49.30 LT	1430+73.16	51.60 LT	3.45	2.00
H1	1430+94.28	51.38 LT	1430+97.16	49.23 LT	3.85	3.00
H2	1430+97.16	49.23 LT	1431+02.51	49.21 LT	5.35	1
H3	1431+02.51	49.21 LT	1431+32.02	58.65 LT	31.43	50.00
H4	1431+32.02	58.65 LT	1431+37.97	63.67 LT	7.00	50.00
H5	1431+42.97	69.40 LT	1431+47.32	76.35 LT	7.00	50.00
J1	1431+91.16	59.33 LT	1431+91.34	54.89 LT	4.45	5
J2	1431+91.34	54.89 LT	1431+97.58	53.72 LT	8.75	3.25
J3	1431+97.58	53.72 LT	1431+99.71	58.59 LT	5.32	5
J4	1431+99.71	58.59 LT	1431+97.88	61.39 LT	3.96	2.00
J5	1431+97.88	61.39 LT	1431+93.17	61.41 LT	4.70	5
J6	1431+93.17	61.41 LT	1431+91.16	59.33 LT	3.23	2.00

CURB TABLE						
CURB ID	STATION/OFFSET FROM (FT)	STATION/OFFSET TO (FT)	LENGTH (FT)	RADIUS (FT)	CURB TYPE	COMMENT
K1	1431+80.83	73.40 LT	1431+82.83	71.41 LT	3.12	2.00
K2	1431+82.83	71.41 LT	1432+01.68	71.38 LT	9.05	5
K3	1432+01.68	71.38 LT	1432+03.70	73.40 LT	3.17	2.00
L1	1432+44.01	17.17 LT	1432+43.19	12.71 LT	6.40	2.30
L2	1432+43.19	12.71 LT	1432+66.92	2.44 LT	26.24	43.81
L3	1432+66.92	2.44 LT	1432+69.14	4.44 LT	3.37	2.00
L4	1432+69.14	4.44 LT	1432+69.10	15.11 LT	10.67	5
L5	1432+69.10	15.11 LT	1432+67.11	17.10 LT	3.13	2.00
L6	1432+67.11	17.10 LT	1432+44.01	17.17 LT	23.08	5
M1	1432+84.12	17.04 LT	1432+82.11	15.04 LT	3.16	2.00
M2	1432+82.11	15.04 LT	1432+82.14	4.19 LT	10.85	5
M3	1432+82.14	4.19 LT	1432+84.14	2.20 LT	3.13	2.00
N1	1432+80.23	24.07 RT	1432+87.22	70.97 RT	7.00	1
O1	1432+73.01	74.70 LT	1432+77.72	70.97 LT	7.00	1
O2	1432+83.43	67.24 LT	1432+87.15	63.51 LT	7.00	1
P1	1433+10.48	51.72 LT	1433+39.60	46.45 LT	29.64	100.00
P2	1433+39.60	46.45 LT	1434+41.77	42.96 LT	102.03	1
Q1	1434+02.19	16.68 LT	1436+50.00	15.83 LT	247.63	5
Q2	1434+02.38	2.30 LT	1436+50.00	3.51 LT	247.59	5

LEGEND	
	PROPOSED WIDENING
	PROPOSED SIDEWALK



Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

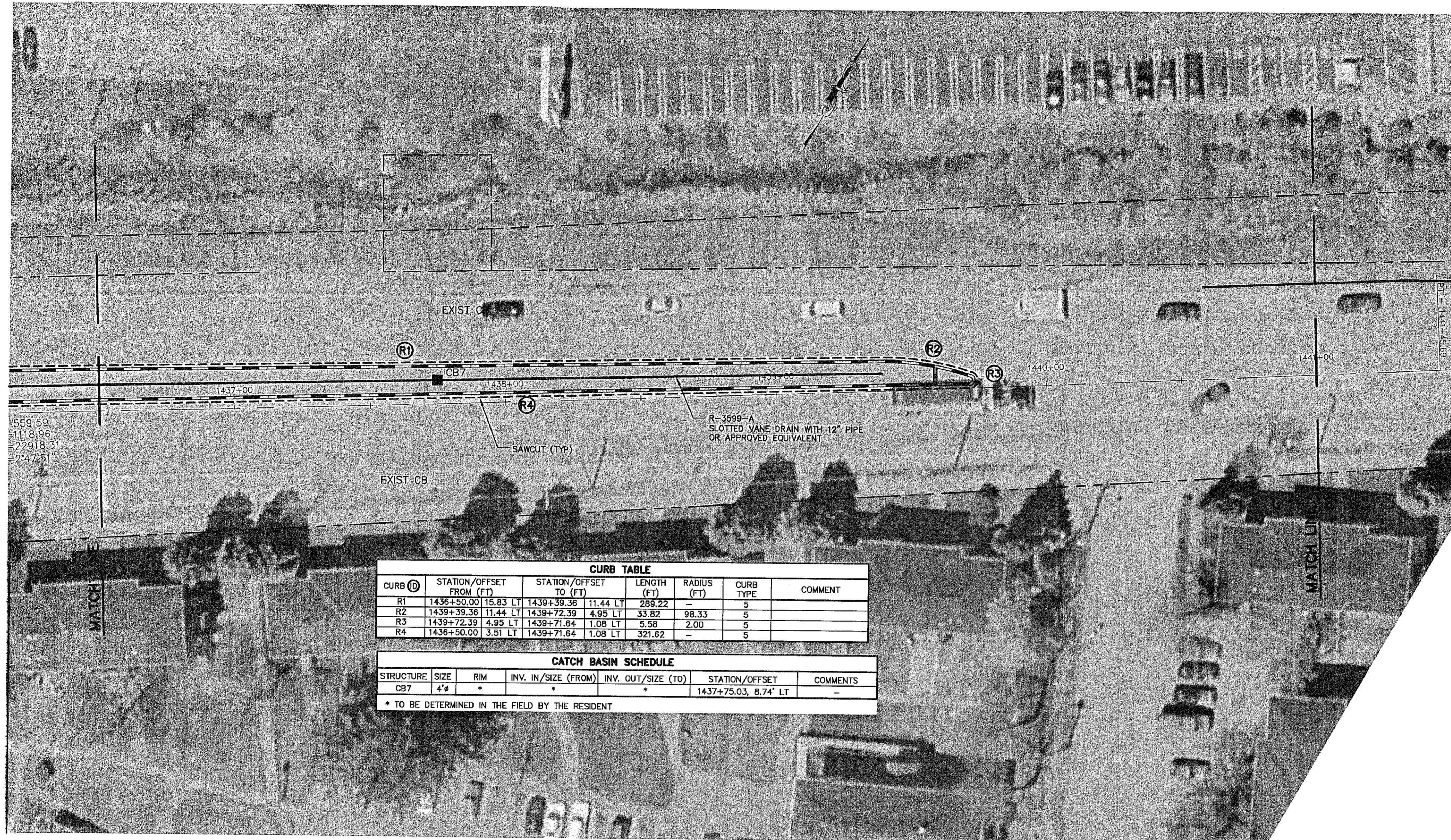
CONSTRUCTION	7/22/05	TLG
BIDDING	6/15/05	TLG
FOR REVIEW	3/4/05	TLG
Issued For	Date	By

Design: RCN Draft: LAN Date: JAN 05  
 Checked: TLG Scale: 1"=25' Job No.: 832.02  
 File Name: 832-02-GE0.dwg  
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**GP** Gorrill-Palmer Consulting Engineers, Inc.  
 Traffic and Civil Engineering Services  
 PO Box 1237 207-657-6910  
 15 Shaker Road 207-657-6912  
 Gray, ME 04039 E-Mail: mailbox@gorrillpalmer.com

Drawing Name: **Plan & Profile**  
 Project: **GOSLING ROAD UPGRADE**  
 Client: **City of Portsmouth**  
 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No. **5**

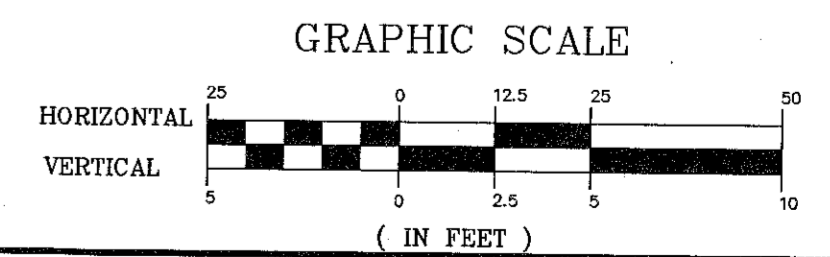


CURB TABLE						
CURB ID	STATION/OFFSET FROM (FT)	STATION/OFFSET TO (FT)	LENGTH (FT)	RADIUS (FT)	CURB TYPE	COMMENT
R1	1436+50.00 15.83 LT	1439+39.36 11.44 LT	289.22	-	5	
R2	1439+39.36 11.44 LT	1439+72.39 4.95 LT	33.82	98.33	5	
R3	1439+72.39 4.95 LT	1439+71.64 1.08 LT	5.58	2.00	5	
R4	1436+50.00 3.51 LT	1439+71.64 1.08 LT	321.62	-	5	

CATCH BASIN SCHEDULE						
STRUCTURE	SIZE	RIM	INV. IN/SIZE (FROM)	INV. OUT/SIZE (TO)	STATION/OFFSET	COMMENTS
CB7	4#	*	*	*	1437+75.03, 8.74' LT	-

\* TO BE DETERMINED IN THE FIELD BY THE RESIDENT



Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

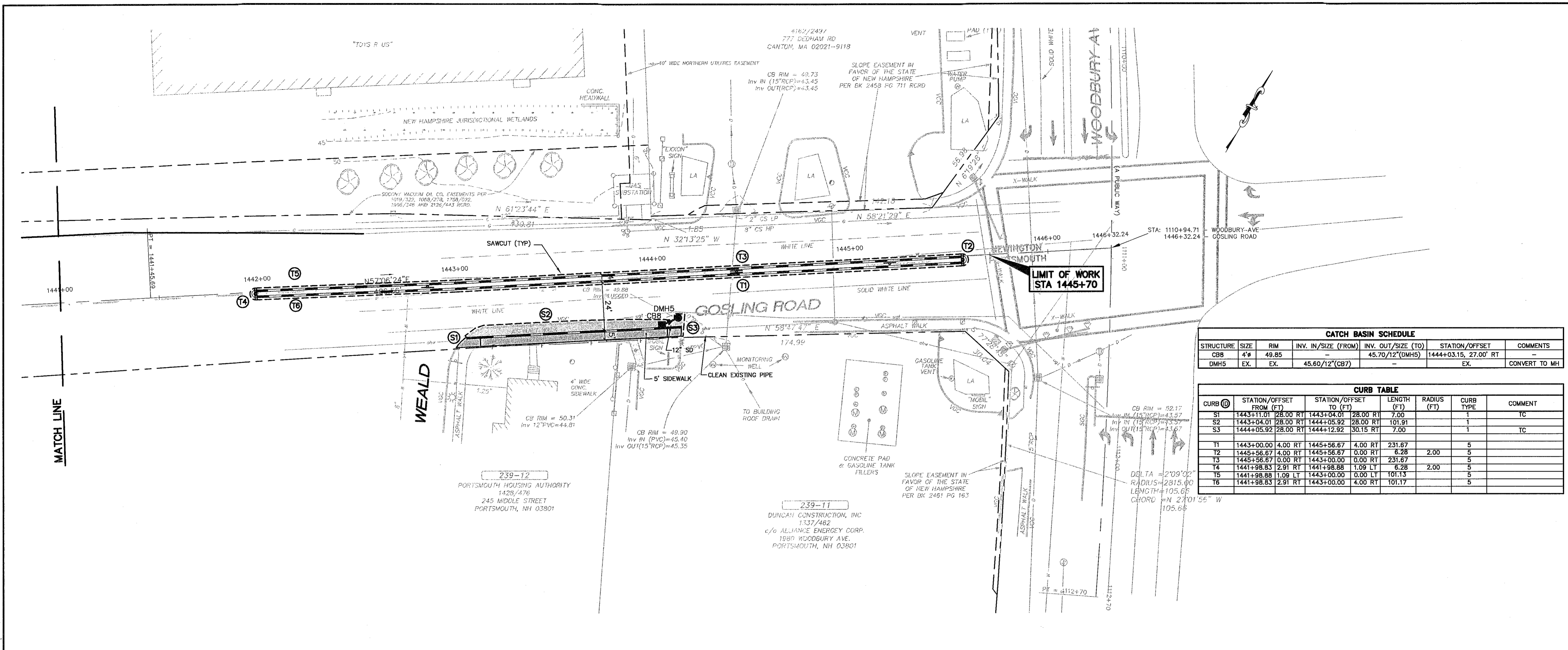
CONSTRUCTION	Date	By
BIDDING	7/22/05	TLG
FOR REVIEW	6/15/05	TLG
Issued For	3/4/05	TLG

Design: RCN    Draft: LAN    Date: JAN 05  
Checked: TLG    Scale: 1"=25'    Job No.: 832.02  
File Name: 832-02-GEO.dwg  
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PO Box 1237 Traffic and Civil Engineering Services 207-657-6910  
15 Shaker Road Gray, ME 04039 FAX: 207-657-6912  
E-Mail: mailbox@gorrillpalmer.com

Drawing Name: **Geometric Plan**  
Project: **GOSLING ROAD UPGRADE**  
Client: **City of Portsmouth**  
1 Jenkins Ave, Portsmouth, NH 03802

Drawing No.  
**6**



**CATCH BASIN SCHEDULE**

STRUCTURE	SIZE	RIM	INV. IN/SIZE (FROM)	INV. OUT/SIZE (TO)	STATION/OFFSET	COMMENTS
CB8	4'	49.85	-	45.70/12"(DMH5)	1444+03.15, 27.00' RT	-
DMH5	EX.	EX.	45.60/12"(CB7)	-	EX.	CONVERT TO MH

**CURB TABLE**

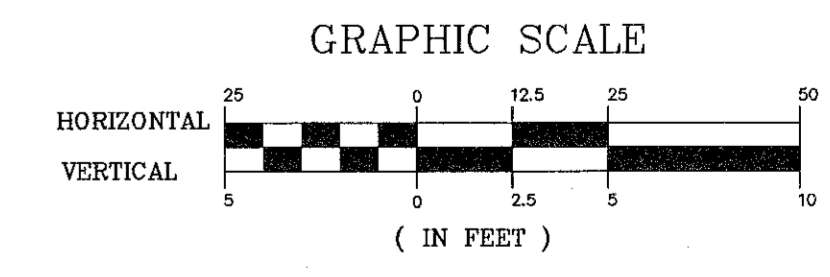
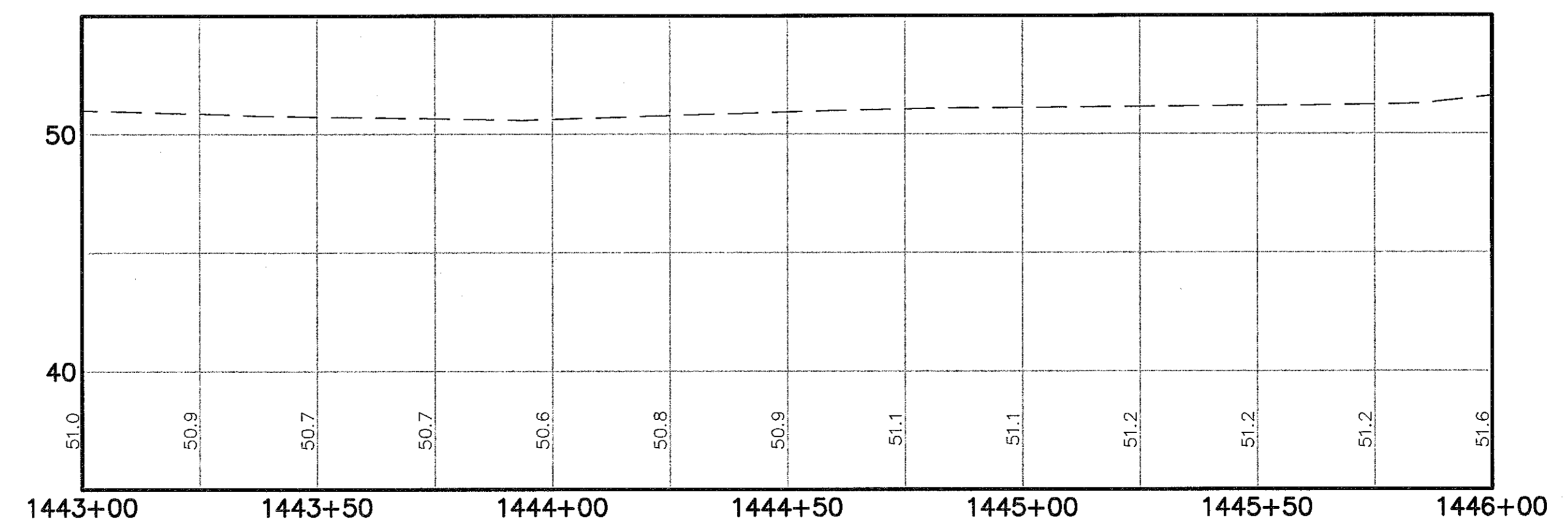
CURB ID	STATION/OFFSET FROM (FT)	STATION/OFFSET TO (FT)	LENGTH (FT)	RADIUS (FT)	CURB TYPE	COMMENT	
S1	1443+11.01	28.00 RT	1443+04.01	28.00 RT	7.00	1	TC
S2	1443+04.01	28.00 RT	1444+05.92	28.00 RT	101.91	1	TC
S3	1444+05.92	28.00 RT	1444+12.92	30.15 RT	7.00	1	TC
T1	1443+00.00	4.00 RT	1445+56.67	4.00 RT	231.67	5	
T2	1445+56.67	4.00 RT	1445+56.67	0.00 RT	6.28	2.00	5
T3	1445+56.67	0.00 RT	1443+00.00	0.00 RT	231.67	5	
T4	1441+98.83	2.91 RT	1441+98.88	1.09 LT	6.28	2.00	5
T5	1441+98.88	1.09 LT	1443+00.00	0.00 LT	101.13	5	
T6	1441+98.83	2.91 RT	1443+00.00	4.00 RT	101.17	5	

**LEGEND**

	PROPOSED WIDENING
	PROPOSED SIDEWALK

REMOVE FENCE  
 STA 1443+05, 33' RT TO STA 1443+35, 33' RT  
 STA 1143+40, 33' RT TO STA 1443+83, 33' RT

CHAIN LINK FENCE BLACK PVC COATED  
 STA 1443+05, 33' RT TO STA 1443+35, 33' RT  
 STA 1143+40, 33' RT TO STA 1443+83, 33' RT



Rev.	Date	Revision
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CONSTRUCTION	Date	By
BIDDING	7/22/05	TLG
FOR REVIEW	6/15/05	TLG
FOR REVIEW	3/4/05	TLG
Issued For	Date	By

Design: RCN    Draft: LAN    Date: JAN 05  
 Checked: TLG    Scale: 1"=25'    Job No.: 832.02  
 File Name: 832-02-GEO.dwg

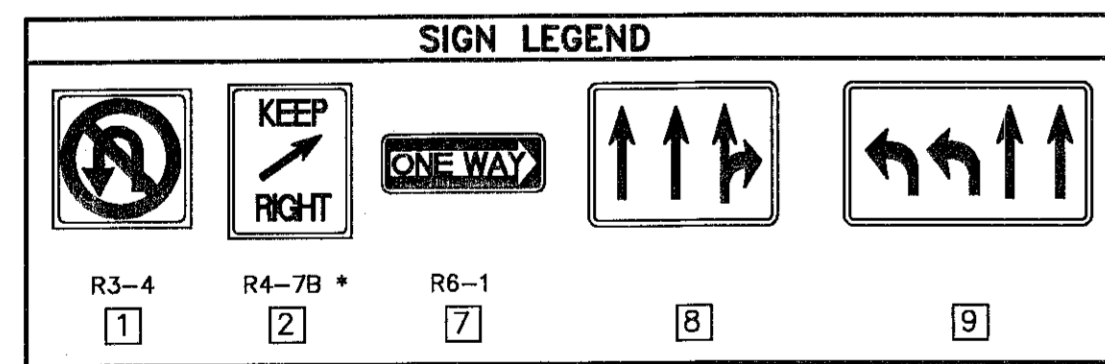
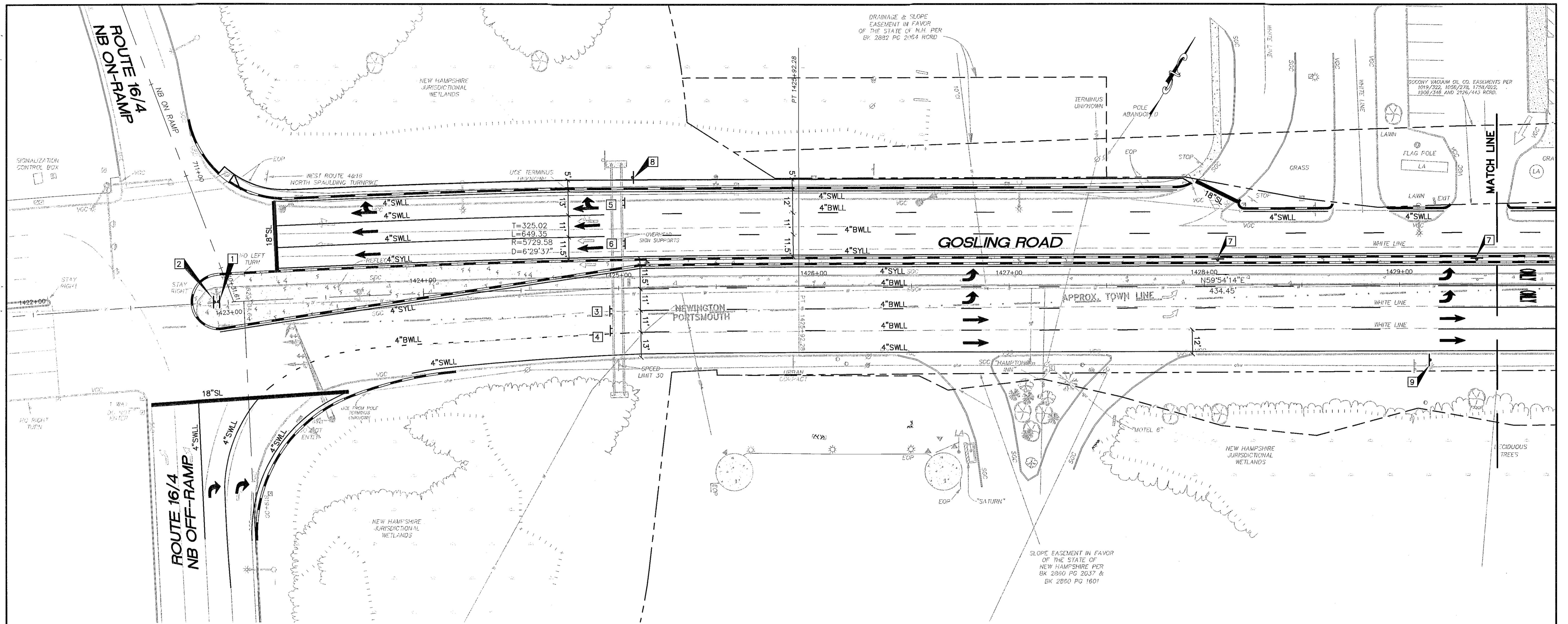
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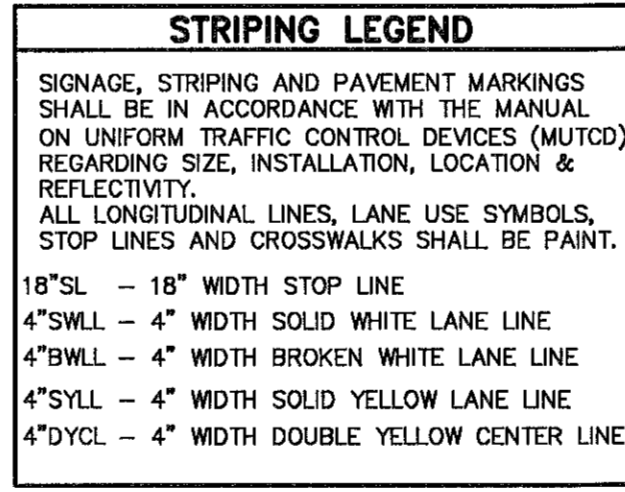
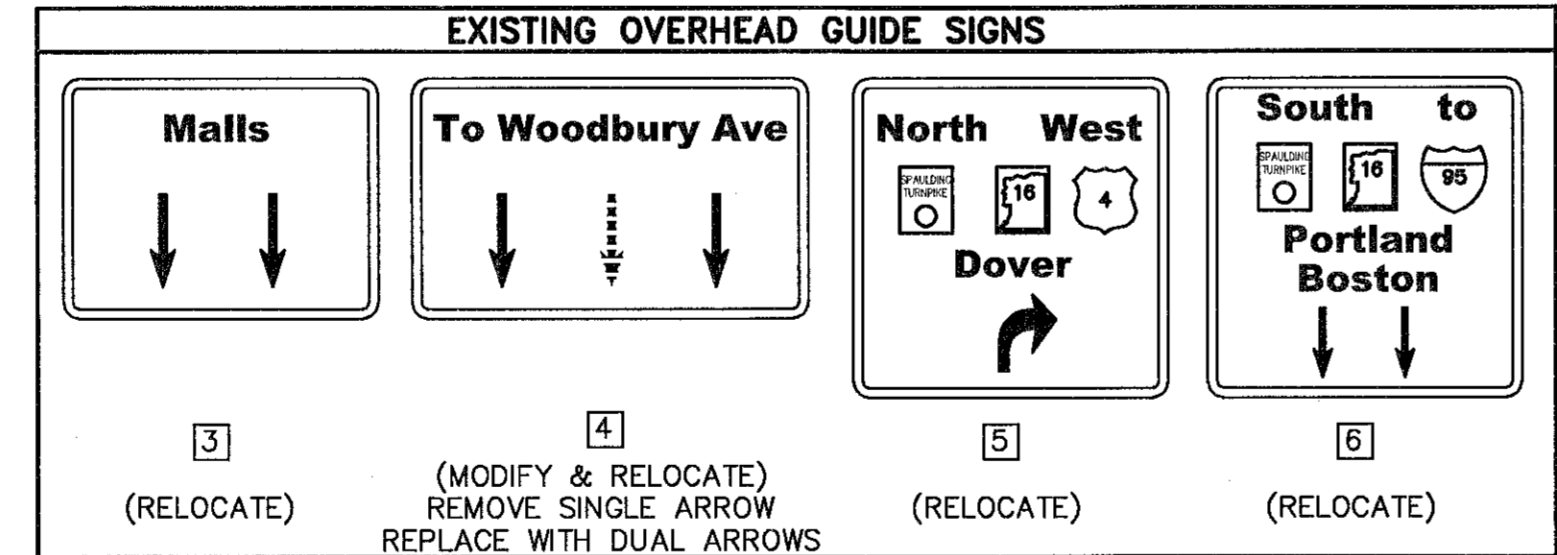
PO Box 1237    207-657-6910  
 15 Shaker Road    FAX: 207-657-6912  
 Gray, ME 04039    E-Mail: mail@gorrillpalmer.com

Drawing Name: **Geometric Plan & Profile**  
 Project: **GOSLING ROAD UPGRADE**  
 Client: **City of Portsmouth**  
 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No. **7**



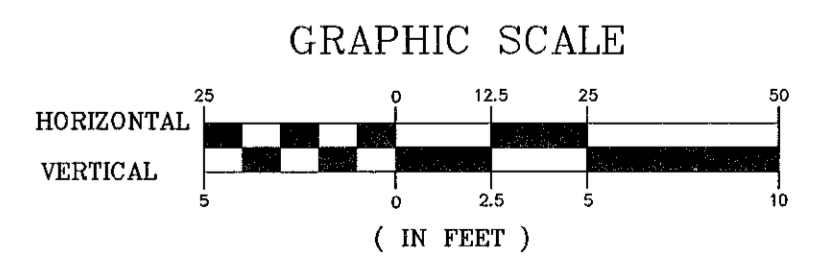
\* INSTALL OMI-3 WITH TYPE III SHEETING BELOW SIGN



**REMOVE SIGN**

FROM STA 1422+95, 4.0' LT TO STA 1422+84, 0.0' LT  
 FROM STA 1428+04, 3.0' LT TO STA 1428+04, 8.0' LT  
 FROM STA 1429+40, 3.0' LT TO STA 1429+40, 8.0' LT  
 FROM STA 1428+58, 37.0' LT TO STA 1428+40, 43.0' LT

**NOTE:**  
 ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCIDENTAL TO THE PAVEMENT MARKING ITEMS 632.0104 AND 632.02.



Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

CONSTRUCTION	7/22/05	TLG
BIDDING	6/15/05	TLG
FOR REVIEW	3/4/05	TLG
Issued For	Date	By

Design: RCN    Draft: LAN    Date: JAN 05  
 Checked: TLG    Scale: 1"=25'    Job No.: 832.02  
 File Name: 832-02-STRIPING.dwg

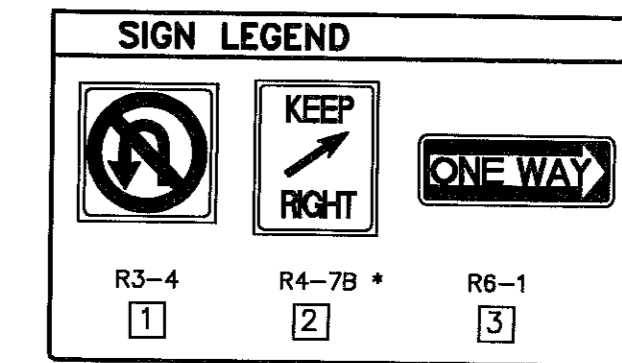
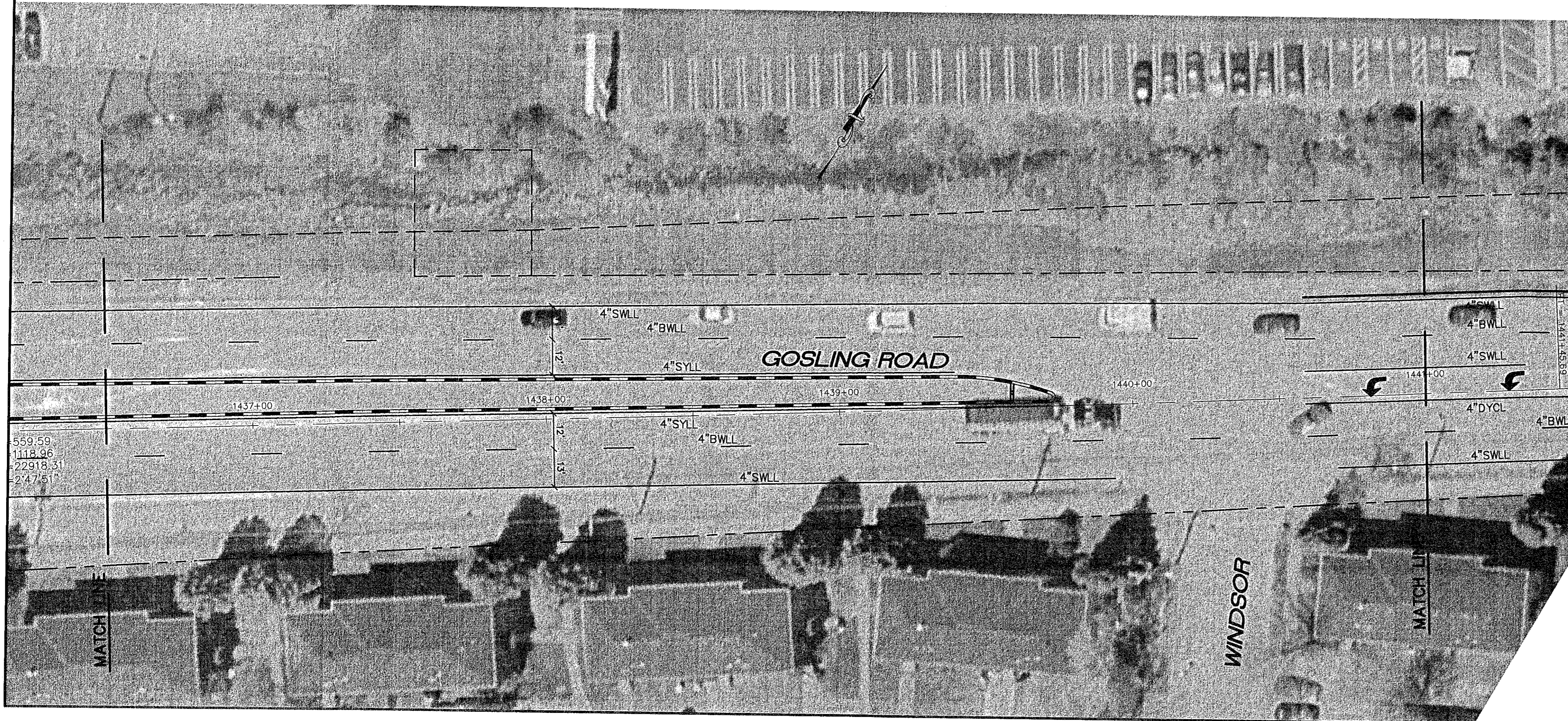
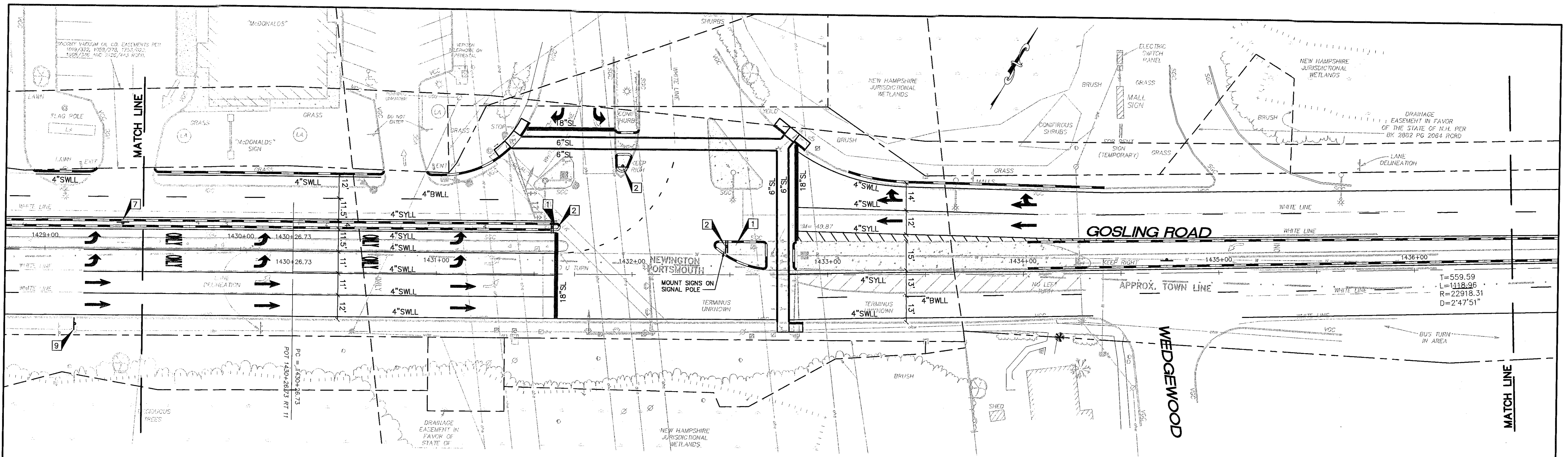
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 Gray, ME 04039    E-Mail: mailbox@gorrillpalmer.com

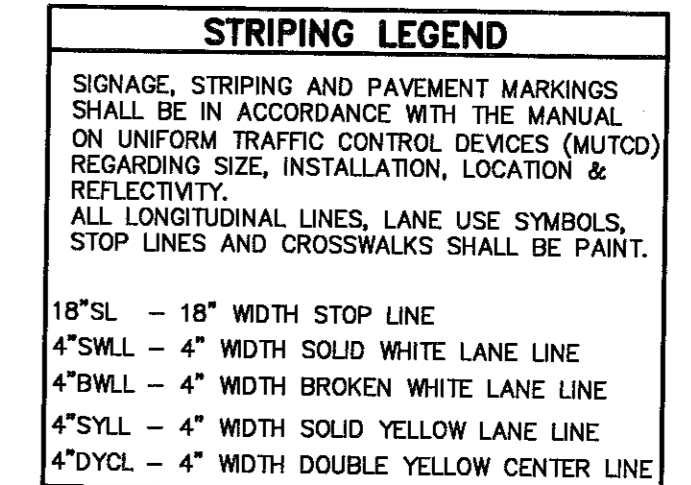
Drawing Name: **Pavement Marking & Signage**  
 Project: **GOSLING ROAD UPGRADE**  
 Client: **City of Portsmouth**  
 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No. **8**





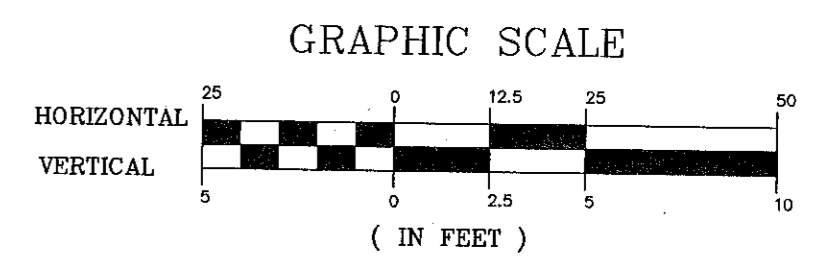
\* INSTALL OMI-3 WITH TYPE III SHEETING BELOW SIGN



**NOTE:**  
 ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCIDENTAL TO THE PAVEMENT MARKING ITEMS 632.0104 AND 632.02.

**REMOVE AND RESET SIGN**  
 FROM STA 1431+98, 55.0' LT TO STA 1431+98, 54.0' LT

**REMOVE SIGN**  
 STA 1430+10, 4.0' LT



Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

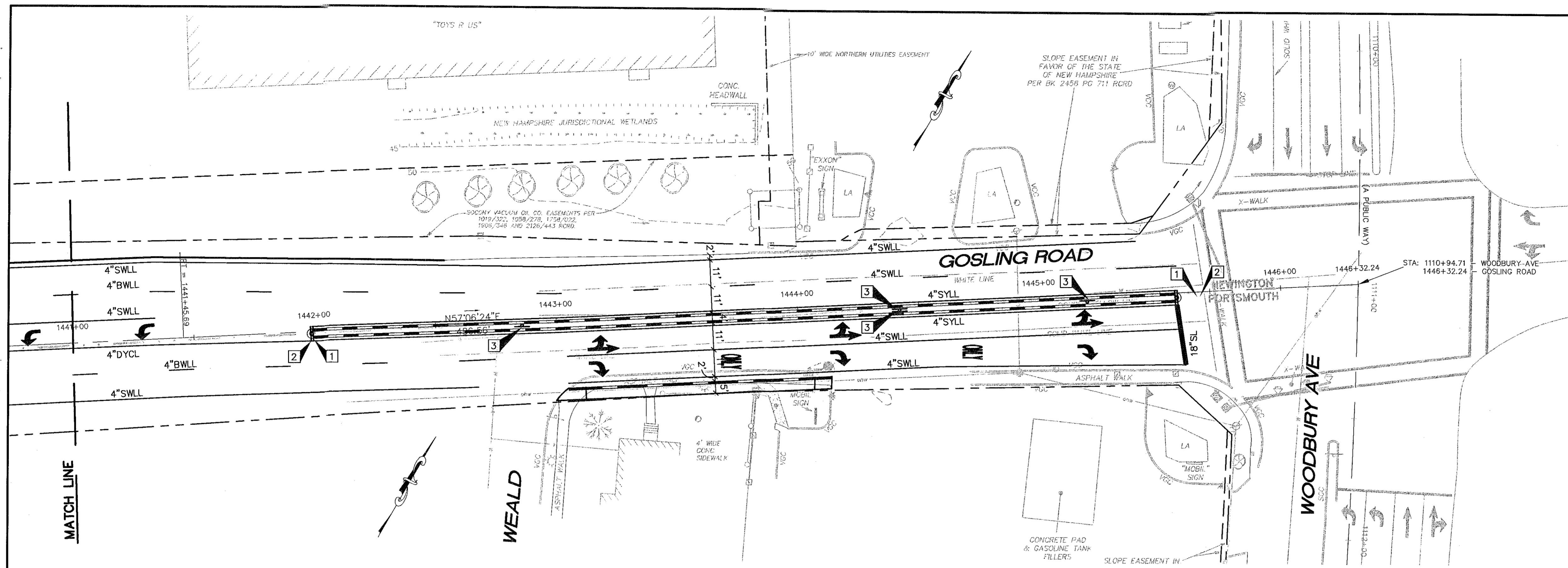
CONSTRUCTION	7/22/05	TLG
BIDDING	6/15/05	TLG
FOR REVIEW	3/4/05	TLG
Issued For	Date	By

Design: RCN      Draft: LAN      Date: JAN 05  
 Checked: TLG      Scale: 1"=25'  
 File Name: 832-02-STRIPING.dwg  
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 15 Shaker Road      FAX: 207-657-6912  
 Gray, ME 04039      E-Mail: mailbox@gorrillpalmer.com

Drawing Name: **Pavement Marking & Signage**  
 Project: **GOSLING ROAD UPGRADE**  
 Client: **City of Portsmouth**  
 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No.  
**9**



**SIGN LEGEND**

R3-4 1	R4-7B * 2	R6-1 3

\* INSTALL OMI-3 WITH TYPE III SHEETING BELOW SIGN

**STRIPING LEGEND**

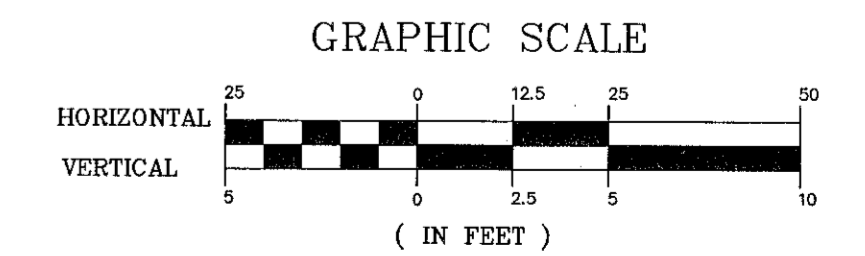
SIGNAGE, STRIPING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) REGARDING SIZE, INSTALLATION, LOCATION & REFLECTIVITY. ALL LONGITUDINAL LINES, LANE USE SYMBOLS, STOP LINES AND CROSSWALKS SHALL BE PAINT.

18"SL - 18" WIDTH STOP LINE  
 4"SWLL - 4" WIDTH SOLID WHITE LANE LINE  
 4"BWLL - 4" WIDTH BROKEN WHITE LANE LINE  
 4"SYLL - 4" WIDTH SOLID YELLOW LANE LINE  
 4"DYCL - 4" WIDTH DOUBLE YELLOW CENTER LINE

**NOTE:**  
 ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED. THIS WORK SHALL BE INCIDENTAL TO THE PAVEMENT MARKING ITEMS 632.0104 AND 632.02.

**REMOVE AND RESET SIGN**  
 FROM STA 1431+98, 55.0' LT TO STA 1431+98, 54.0' LT

**REMOVE SIGN**  
 STA 1430+10, 4.0' LT



Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

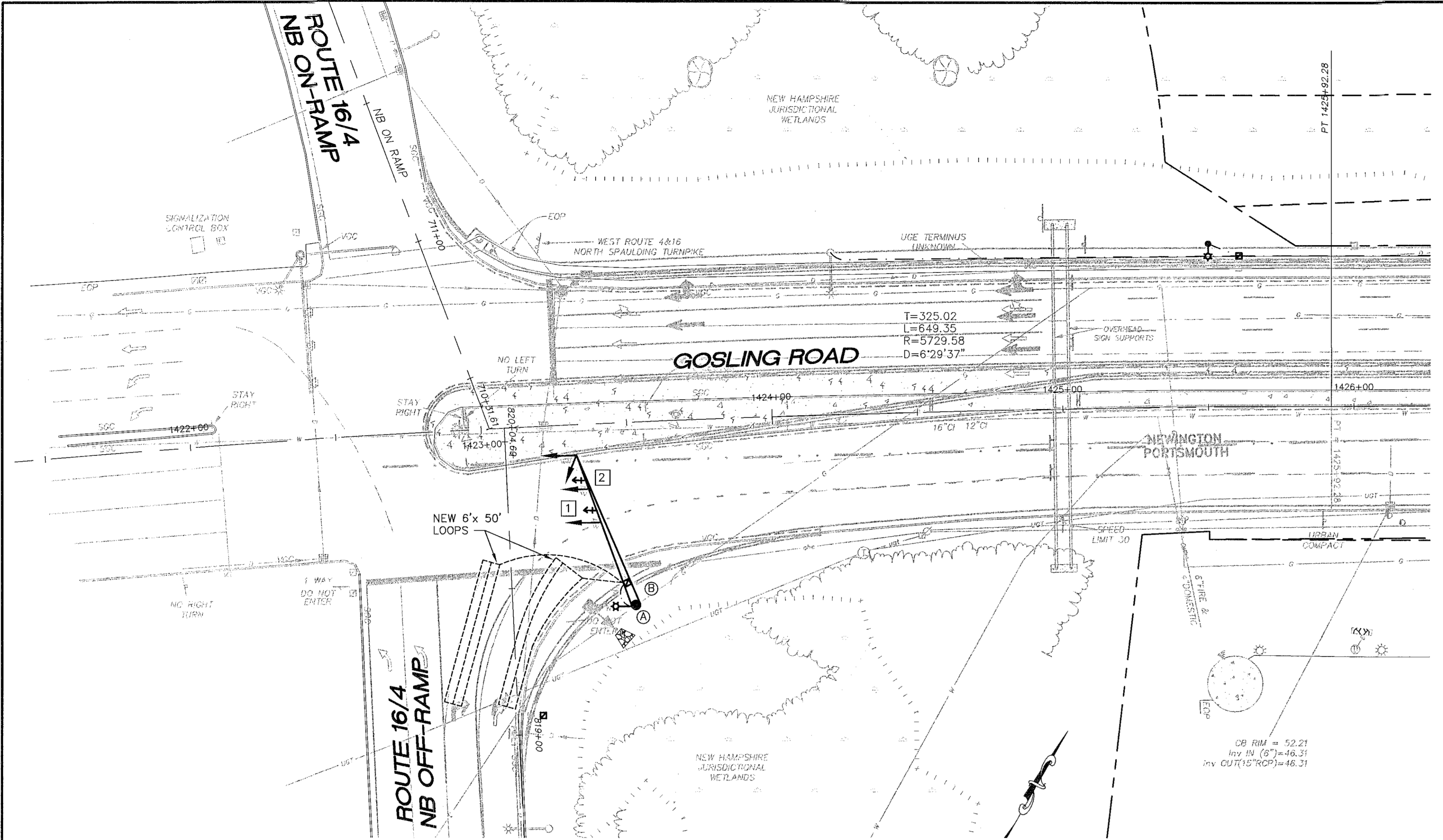
CONSTRUCTION	Date	By
BIDDING	7/22/05	TLG
FOR REVIEW	6/15/05	TLG
Issued For	3/4/05	TLG

Design: RCN    Draft: LAN    Date: JAN 05  
 Checked: TLG    Scale: 1"=25'    Job No.: 832.02  
 File Name: 832-02-STRIPING.dwg  
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 Gray, ME 04039    E-Mail: mailbox@gorrillpalmer.com

Drawing Name: **Pavement Marking & Signage**  
 Project: **GOSLING ROAD UPGRADE**  
 Client: **City of Portsmouth**  
 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No.  
**10**

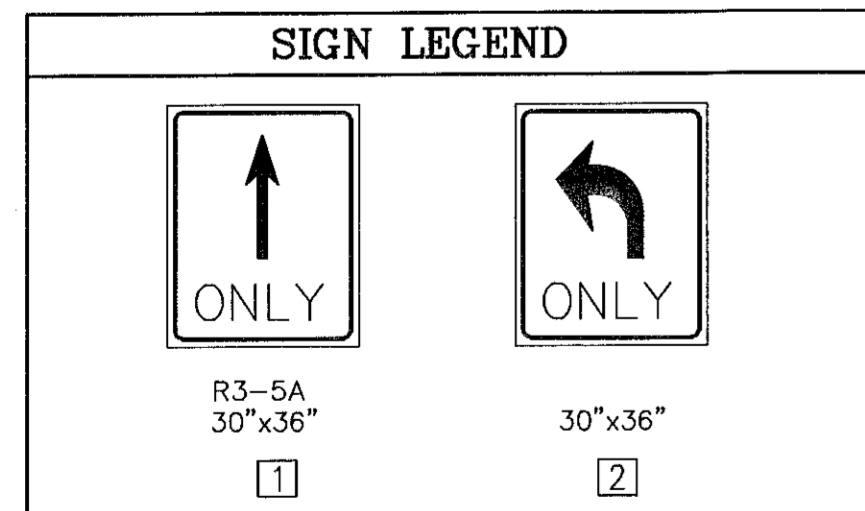


**GENERAL NOTES**

1. ALL TRAFFIC SIGNAL CONDUIT CROSSING UNDER PAVEMENT SHALL BE 3" PVC SCHEDULE 80. ALL OTHER SIGNAL CONDUIT SHALL BE 3" PVC SCHEDULE 40.
2. ALL NEW MAST ARMS AND POLES SHALL BE HOT DIPPED AND GALVANIZED. MAST ARM POLES SHALL BE MANUFACTURED BY CARLAN MANUFACTURING CO., OR VALMONT INDUSTRIES OR UNION METAL CORP., OR APPROVED EQUAL.
3. ALL SIGNAL HEADS SHALL BE MOUNTED TO MAST ARMS WITH ASTROBRACKETS.
4. ALL SPLICES WILL BE MADE IN THE CABINETS/ JUNCTION BOXES MEETING NHDOT SPECIFICATIONS.
5. ALL PHASES SHALL HAVE DETECTION USING 6'x 50' WIRE LOOPS WITH IMSA 51-5 1988 CABLE IN THE STREET. EACH OF THESE LOOPS SHALL CONNECT TO A SEPARATE TERMINAL AND AMPLIFIER CHANNEL AND A 5 SECOND DELAY SET ON THE RIGHT TURN LOOP.
6. THE BOTTOM OF THE HOUSING OF THE SIGNAL FACE SHALL BE AT LEAST 16 FEET BUT NOT MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
7. ALL MATERIALS AND WORK COMPLETED UNDER THIS CONTRACT SHALL CONFORM TO THE NHDOT STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS AND WITH THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
8. TWO COPIES OF AS-BUILT PLANS SHALL BE LEFT IN THE CONTROLLER CABINET.
9. CONTRACTOR SHALL PROVIDE, INSTALL AND RELOCATE ALL NECESSARY JUNCTION BOXES AND ASSOCIATED CONDUIT AND WIRING.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING STRIPING AS INDICATED ON STRIPING PLANS AND FOR REMOVING ANY STRIPING THAT CONFLICTS WITH THE PROPOSED STRIPING.
11. UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR FINDING EXACT LOCATIONS OF UTILITIES PRIOR TO CONSTRUCTION.
12. CONTRACTOR SHALL CONTACT UTILITIES UPON AWARD OF THE CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING DIG SAFE PRIOR TO ANY CONSTRUCTION.
13. CONTRACTOR IS RESPONSIBLE FOR OBTAINING NHDOT OPENING, EXCAVATION AND TRENCHING PERMITS, IF NECESSARY.
14. TRAFFIC SIGNAL WORK SHALL BE COMPLETED IN A MANNER AND ORDER THAT WILL CAUSE THE MINIMUM DISRUPTION TO TRAFFIC. WHEN THE TRAFFIC SIGNAL IS NOT OPERATIONAL DURING RELOCATION, A TRAFFIC OFFICER SHALL BE UTILIZED.
15. EACH TRAFFIC SIGNAL LOOP TO BE BROUGHT BACK TO THE CONTROLLER ON ITS OWN SEPARATE LEAD-IN CABLE.

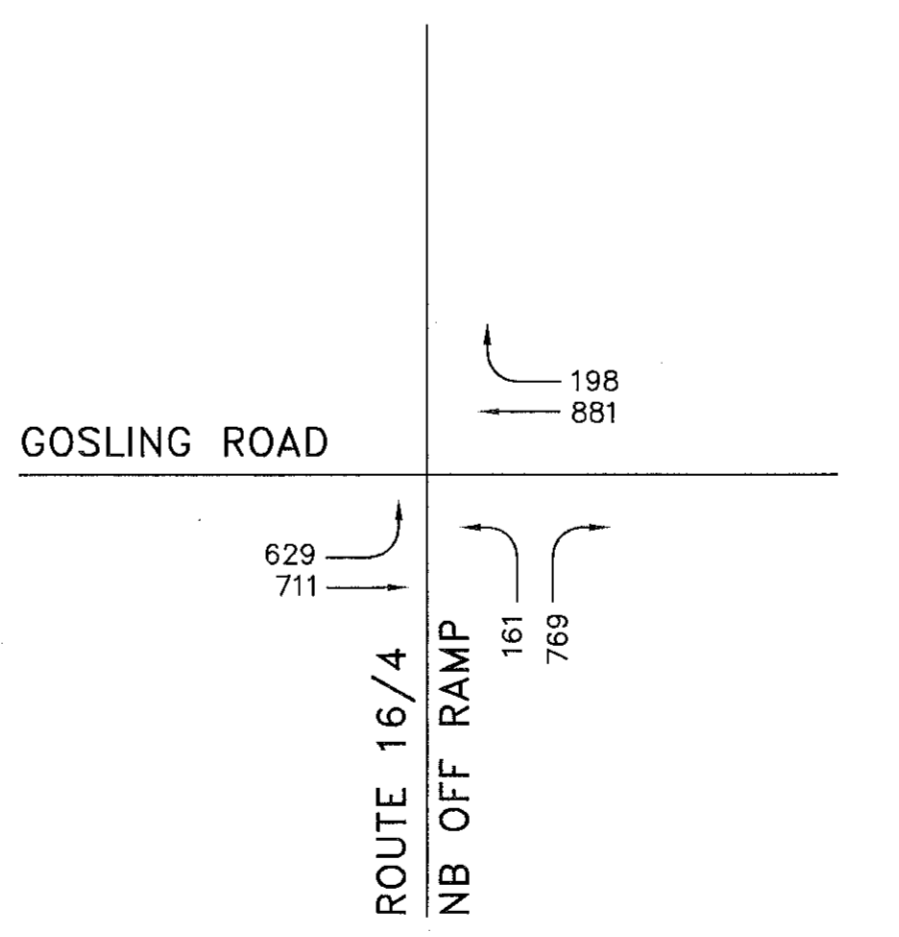
EQUIPMENT SCHEDULE		
DESIGNATION	ITEM	DESCRIPTION
A	21' MAST POLE WITH 55' MAST ARM	RELOCATE EXISTING SIGNAL HEADS TO PROPOSED MAST ARM. LANE USE SIGNS AND MONGOOSE FIXTURE WITH 250W LUMINAIRE
B	EXISTING MAST POLE	REMOVE EXISTING MAST POLE AND MODIFY EXISTING FOUNDATION TO A JUNCTION BOX

CONDUIT SCHEDULE		
RUN	CENTER TO CENTER (LINEAR FEET)	COMMENTS
A-B	8 FT	3 IN PVC

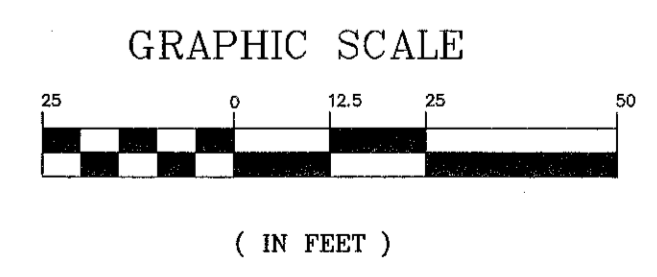


DETECTOR SCHEDULE							
DETECTOR				AMPLIFIER			
STREET	DIRECTION	LANE	Ø	NO.	CHANNEL	INDUCT U H	RESIST. OF LOOP
OFF RAMP	NB	RT		1	2		
OFF RAMP	NB	RT		2	2		
RECORD FIELD MEASUREMENTS ABOVE							

**EVENING PEAK HOUR TRAFFIC VOLUMES**



LEGEND	
	CONTROLLER WITH CABINET
	MAST ARM WITH STEEL POLE
	VEHICULAR SIGNAL HEAD
	JUNCTION BOX
	CONDUIT
	OVERHEAD SIGNS
	PEDESTRIAN SIGNAL HEAD
	LUMINAIRE
	CONFIRMATION STROBE
	PREEMPTION RECEIVER



Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

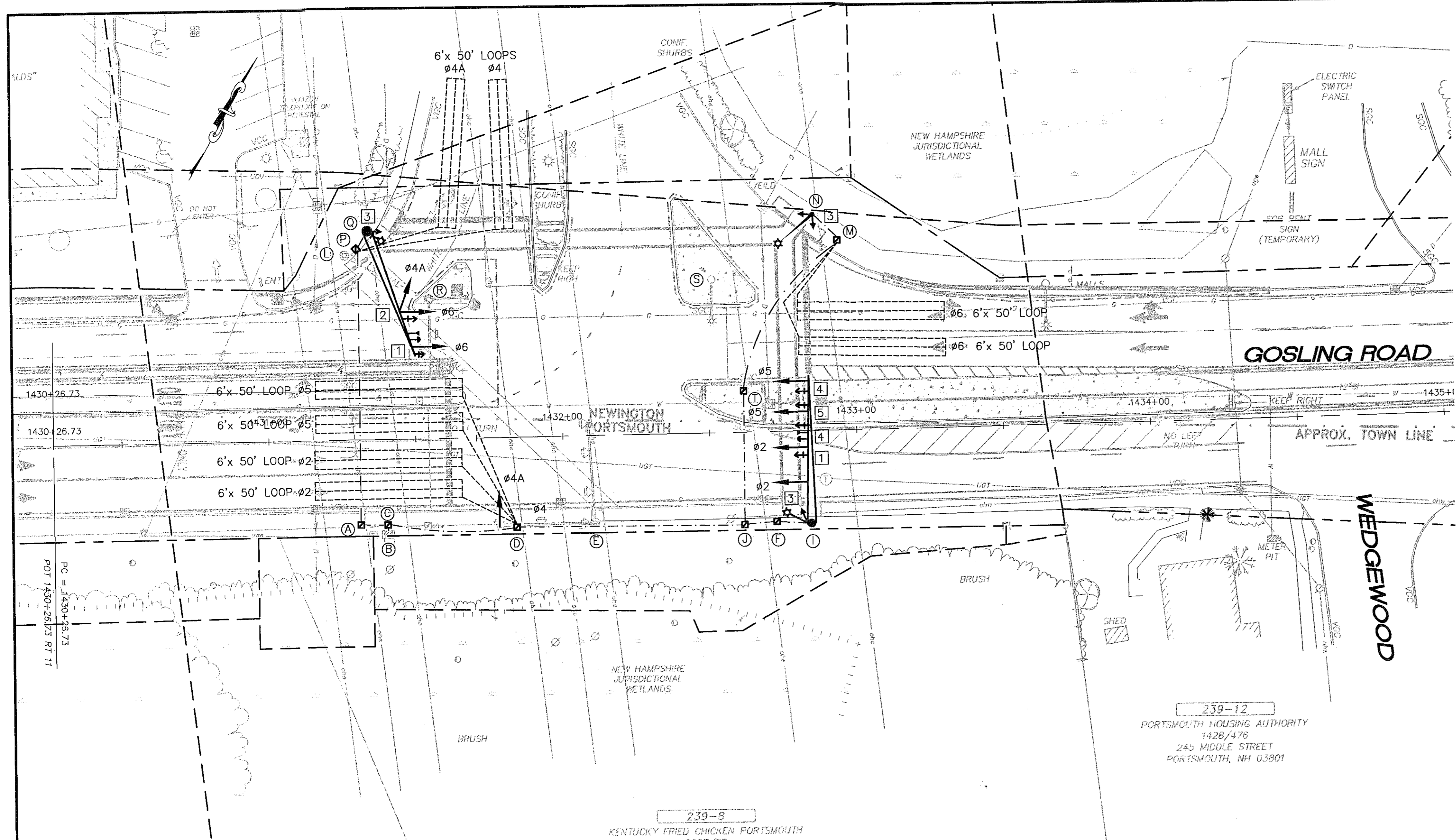
CONSTRUCTION	7/22/05	TLG
BIDDING	6/15/05	TLG
FOR REVIEW	3/4/05	TLG
Issued For	Date	By

Design: RCN Draft: LAN Date: JAN 05  
 Checked: TLG Scale: 1"=25' Job No.: 832.02  
 File Name: 832-02-SIGNAL.dwg  
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 Traffic and Civil Engineering Services  
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 207-657-6910  
 FAX: 207-657-6912  
 E-Mail: mailbox@gorrillpalmer.com

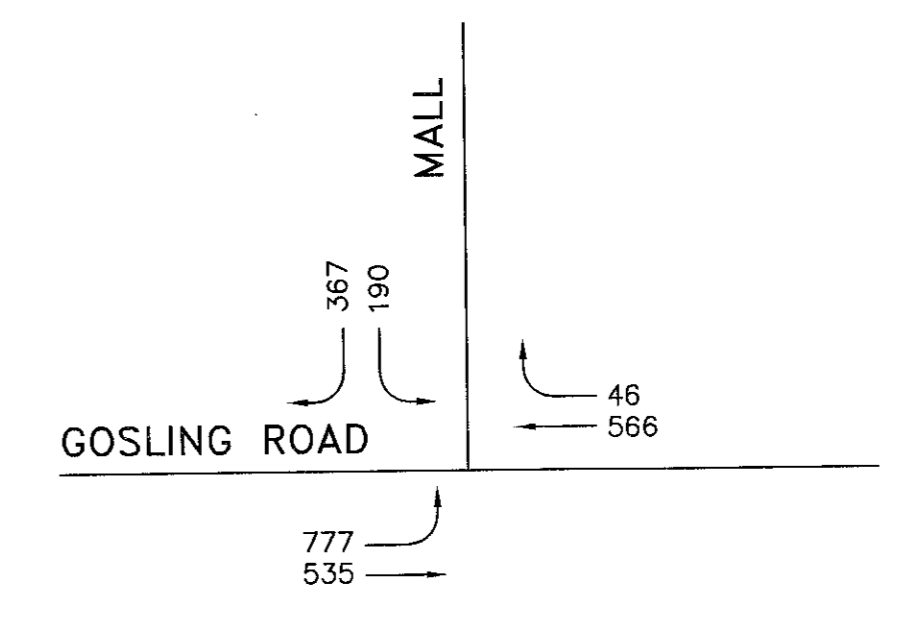
Drawing Name: **Traffic Signal Plan**  
 Project: **GOSLING ROAD UPGRADE**  
 Client: **City of Portsmouth**  
 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No. **11**



- ### GENERAL NOTES
- ALL TRAFFIC SIGNAL CONDUIT CROSSING UNDER PAVEMENT SHALL BE 3" PVC SCHEDULE 80. ALL OTHER SIGNAL CONDUIT SHALL BE 3" PVC SCHEDULE 40.
  - ALL NEW MAST ARMS AND POLES SHALL BE HOT DIPPED AND GALVANIZED. MAST ARM POLES SHALL BE MANUFACTURED BY CARLAN MANUFACTURING CO., OR VALMONT INDUSTRIES OR UNION METAL CORP., OR APPROVED EQUAL.
  - ALL SIGNAL HEADS SHALL BE MOUNTED TO MAST ARMS WITH ASTROBRACKETS.
  - ALL SPLICES WILL BE MADE IN THE CABINETS/ JUNCTION BOXES MEETING NHDOT SPECIFICATIONS.
  - ALL PHASES SHALL HAVE DETECTION USING 6'x 50' WIRE LOOPS WITH IMSA 51-5 1988 CABLE IN THE STREET. EACH OF THESE LOOPS SHALL CONNECT TO A SEPARATE TERMINAL AND AMPLIFIER CHANNEL AND A 5 SECOND DELAY SET ON THE RIGHT TURN LOOP.
  - THE BOTTOM OF THE HOUSING OF THE SIGNAL FACE SHALL BE AT LEAST 16 FEET BUT NOT MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
  - ALL MATERIALS AND WORK COMPLETED UNDER THIS CONTRACT SHALL CONFORM TO THE NHDOT STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS AND WITH THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
  - TWO COPIES OF AS-BUILT PLANS SHALL BE LEFT IN THE CONTROLLER CABINET.
  - CONTRACTOR SHALL PROVIDE, INSTALL AND RELOCATE ALL NECESSARY JUNCTION BOXES AND ASSOCIATED CONDUIT AND WIRING.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING STRIPING AS INDICATED ON STRIPING PLANS AND FOR REMOVING ANY STRIPING THAT CONFLICTS WITH THE PROPOSED STRIPING.
  - UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR FINDING EXACT LOCATIONS OF UTILITIES PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL CONTACT UTILITIES UPON AWARD OF THE CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING DIG SAFE PRIOR TO ANY CONSTRUCTION.
  - CONTRACTOR IS RESPONSIBLE FOR OBTAINING NHDOT OPENING, EXCAVATION AND TRENCHING PERMITS, IF NECESSARY.
  - TRAFFIC SIGNAL WORK SHALL BE COMPLETED IN A MANNER AND ORDER THAT WILL CAUSE THE MINIMUM DISRUPTION TO TRAFFIC. WHEN THE TRAFFIC SIGNAL IS NOT OPERATIONAL DURING RELOCATION, A TRAFFIC OFFICER SHALL BE UTILIZED.
  - EACH TRAFFIC SIGNAL LOOP TO BE BROUGHT BACK TO THE CONTROLLER ON ITS OWN SEPARATE LEAD-IN CABLE.

### EVENING PEAK HOUR TRAFFIC VOLUMES



### LEGEND

- CONTROLLER WITH CABINET
- MAST ARM WITH STEEL POLE
- VEHICULAR SIGNAL HEAD
- JUNCTION BOX
- CONDUIT
- OVERHEAD SIGNS
- PEDESTRIAN SIGNAL HEAD
- LUMINAIRE
- CONFIRMATION STROBE
- PREEMPTION RECEIVER

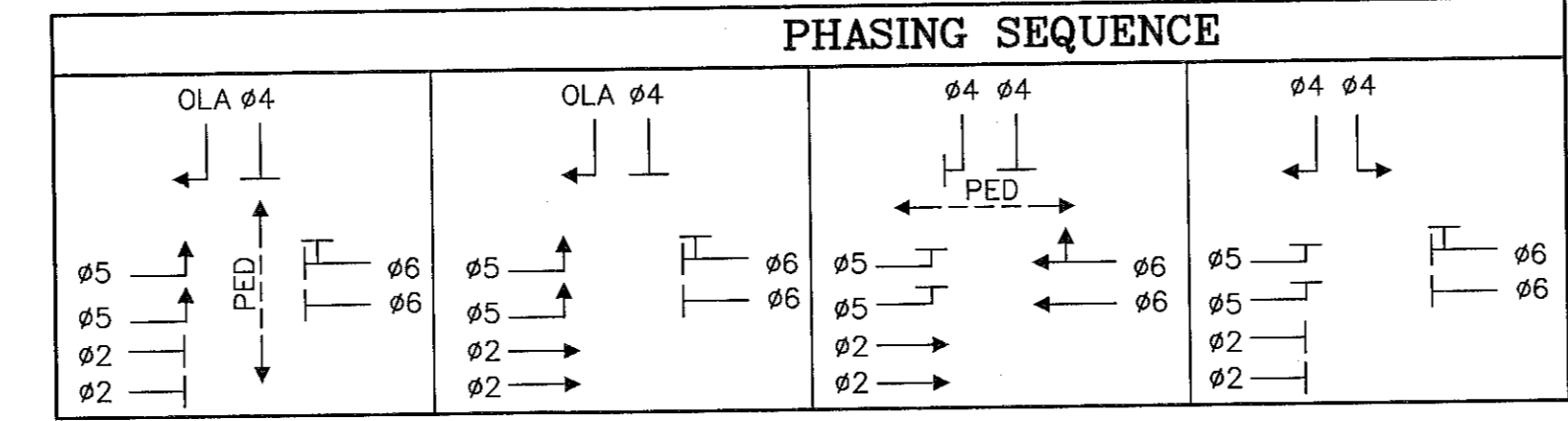
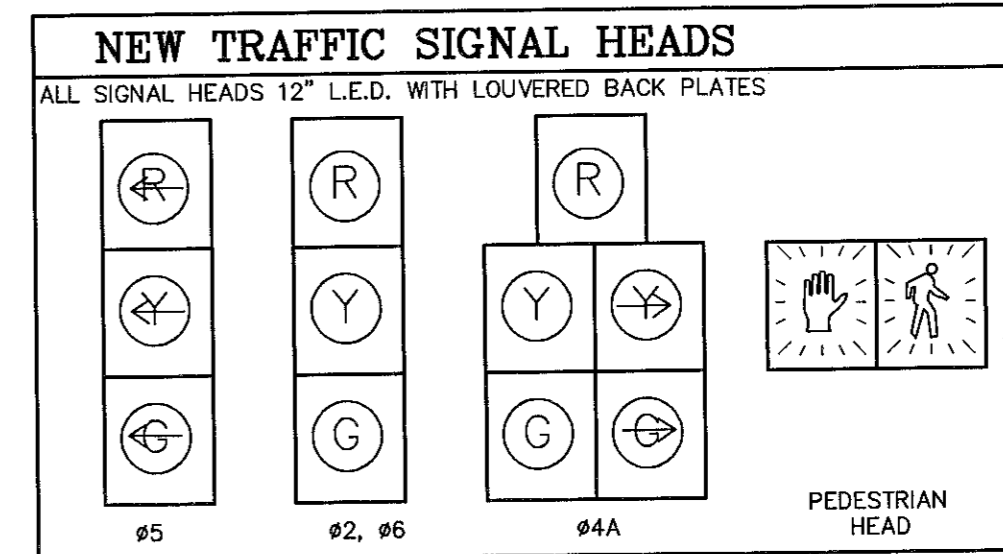
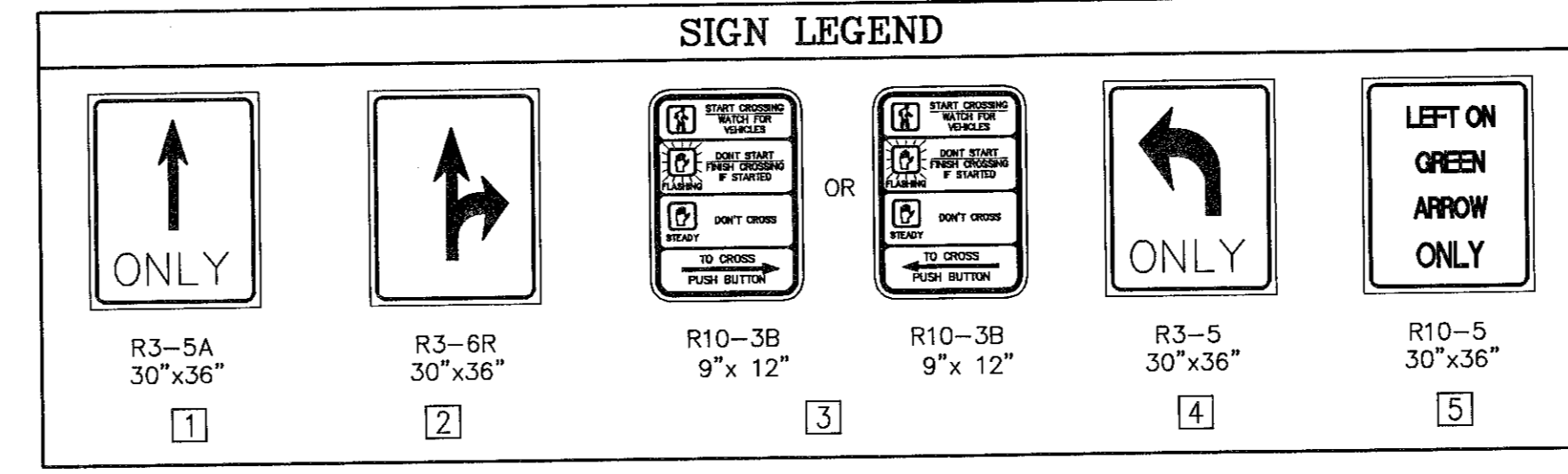
### EQUIPMENT SCHEDULE

DESIGNATION	ITEM	DESCRIPTION
A	JUNCTION BOX	
B	EXISTING CONTROLLER CABINET	MODIFY AS REQUIRED
C	JUNCTION BOX	
D	JUNCTION BOX	
E	EXISTING MAST POLE AND ARM	REMOVE GOSLING ROAD ARM AND REPLACE SIGNAL HEAD
F	JUNCTION BOX	
I	23' MAST POLE WITH 50' MAST ARM	SIGNAL HEADS, LANE USE SIGNS, PREEMPTION RECEIVER, CONFIRMATION STROBE, MONGOOSE FIXTURE WITH 250W LUMINAIRE, PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SIGN
J	JUNCTION BOX	
L	EXISTING PEDESTAL POLE	REMOVE AND INSTALL JUNCTION BOX
M	JUNCTION BOX	
N	20' PEDESTAL POLE	RELOCATED LUMINAIRE POLE AND FIXTURE FROM LOCATION S ON NEW FOUNDATION WITH PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SIGN
P	JUNCTION BOX	
Q	23' MAST POLE WITH 45' MAST ARM	SIGNAL HEADS, LANE USE SIGNS, PREEMPTION RECEIVER AND CONFIRMATION STROBE AND MONGOOSE FIXTURE WITH 250W LUMINAIRE
R	EXISTING MAST POLE WITH MAST ARM	REMOVE FOUNDATION AND SPLICE EXISTING CONDUIT
S	EXISTING POLE WITH LUMINAIRE	REMOVE LUMINAIRE TO LOCATION N; REMOVE FOUNDATION
T	JUNCTION BOX	

### CONDUIT SCHEDULE

RUN	CENTER TO CENTER (LINEAR FEET)	COMMENTS
A-P	93 FT	3 IN PVC
B-C	3 FT	3 IN PVC
C-D	44 FT	3 IN PVC
D-J	77 FT	3 IN PVC
J-F	15 FT	2 IN PVC
J-T	45 FT	3 IN PVC
F-I	10 FT	2 IN PVC
T-M	96 FT	3 IN PVC
M-N	12 FT	2 IN PVC
P-Q	10 FT	3 IN PVC
A-C	8 FT	3 IN PVC

ALL LOOP LEAD-IN CABLES SHALL BE ON OWN BELDING.



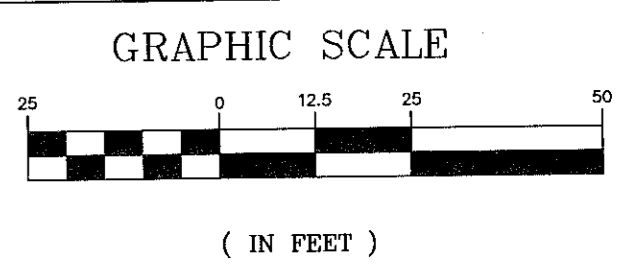
### SIGNAL TIMING SCHEDULE

ITEM / PHASE	1	2	3	4	5	6	7	8
MINIMUM INITIAL	-	8	-	5	5	8	-	-
PASSAGE TIME	-	3	-	3	3	3	-	-
MAXIMUM GREEN	-	72	-	28	36	36	-	-
YELLOW	-	4	-	4	4	4	-	-
ALL RED	-	2	-	2	2	2	-	-
WALK/DON'T WALK	-	4	-	-	4	4	-	-
PEDESTRIAN CLEARANCE	-	23	-	-	24	35	-	-
FLASH	-	Y	-	R	R	Y	-	-
PHASE RECALL	-	SOFT	-	-	-	SOFT	-	-

### DETECTOR SCHEDULE

STREET	DIRECTION	LANE	AMPLIFIER		INDUCT U H	RESIST. OF LOOP	RESIST. LOOP TO GROUND (MEG OHMS)	RESIST. SHIELD TO GROUND (MEG OHMS)
			#	NO.				
GOSLING RD	EB	R	5	1	2			
GOSLING RD	EB	R	5	2	2			
GOSLING RD	EB	T	2	3	2			
GOSLING RD	EB	T	2	4	2			
GOSLING RD	WB	T	6	5	2			
GOSLING RD	WB	TR	6	6	2			
MALL	SB	L	4	7	2			
MALL	SB	R	4A	8	2			

RECORD FIELD MEASUREMENTS ABOVE



Rev.	Date	Revision
1	6/1/05	PER NHDOT COMMENTS

CONSTRUCTION	Date	By
BIDDING	7/22/05	TLG
FOR REVIEW	6/15/05	TLG
Issued For	3/4/05	TLG

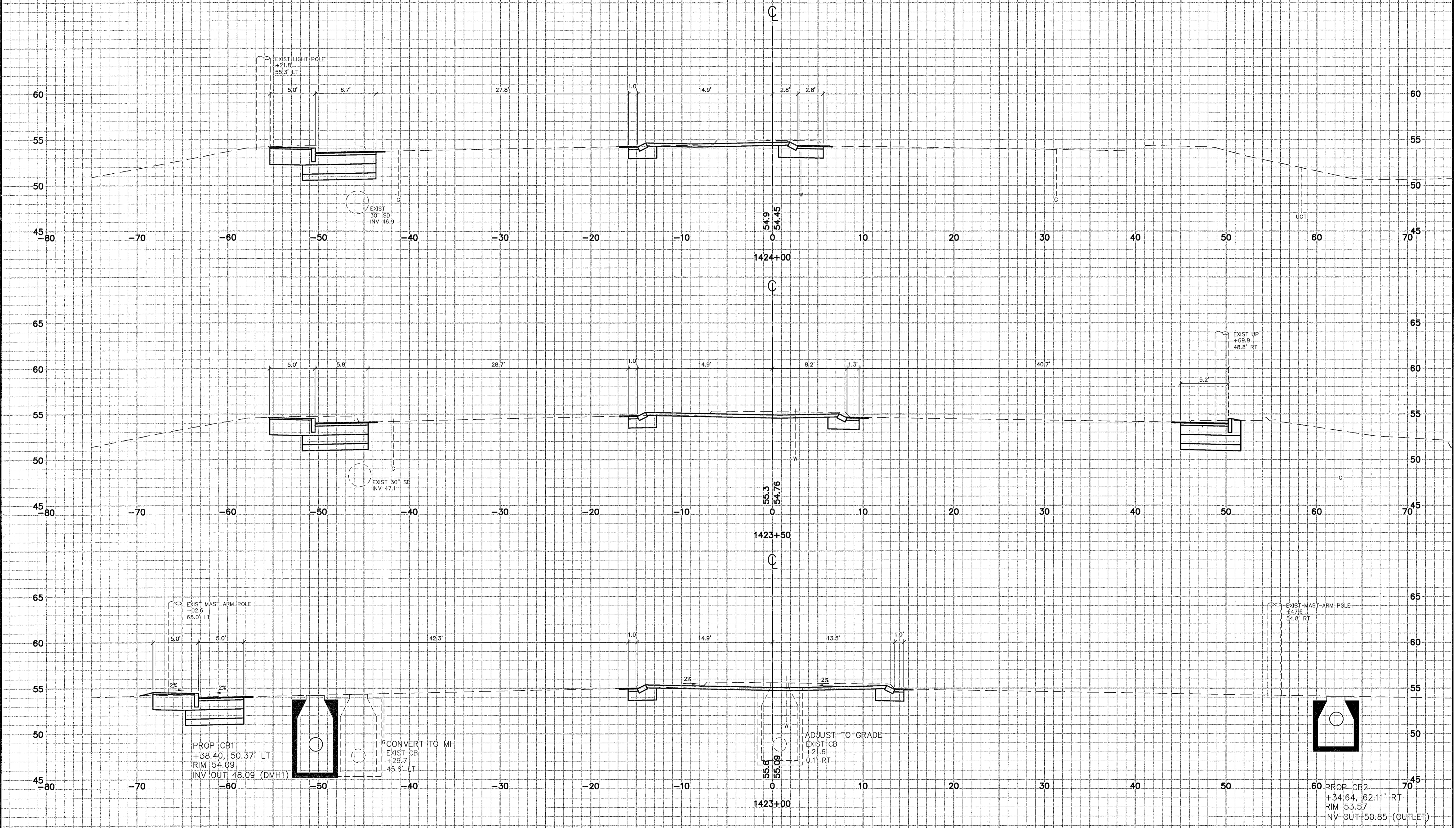
Design: RCN Draft: LAN Date: JAN 05  
 Checked: TLG Scale: 1"=25' Job No.: 832.02  
 File Name: 832-02-SIGNAL.dwg  
 This plan shall not be modified without written permission from Gorrill-Palmer Consulting Engineers, Inc.(GPCEI). Any alterations, authorized or otherwise, shall be at the user's sole risk and without liability to GPCEI.

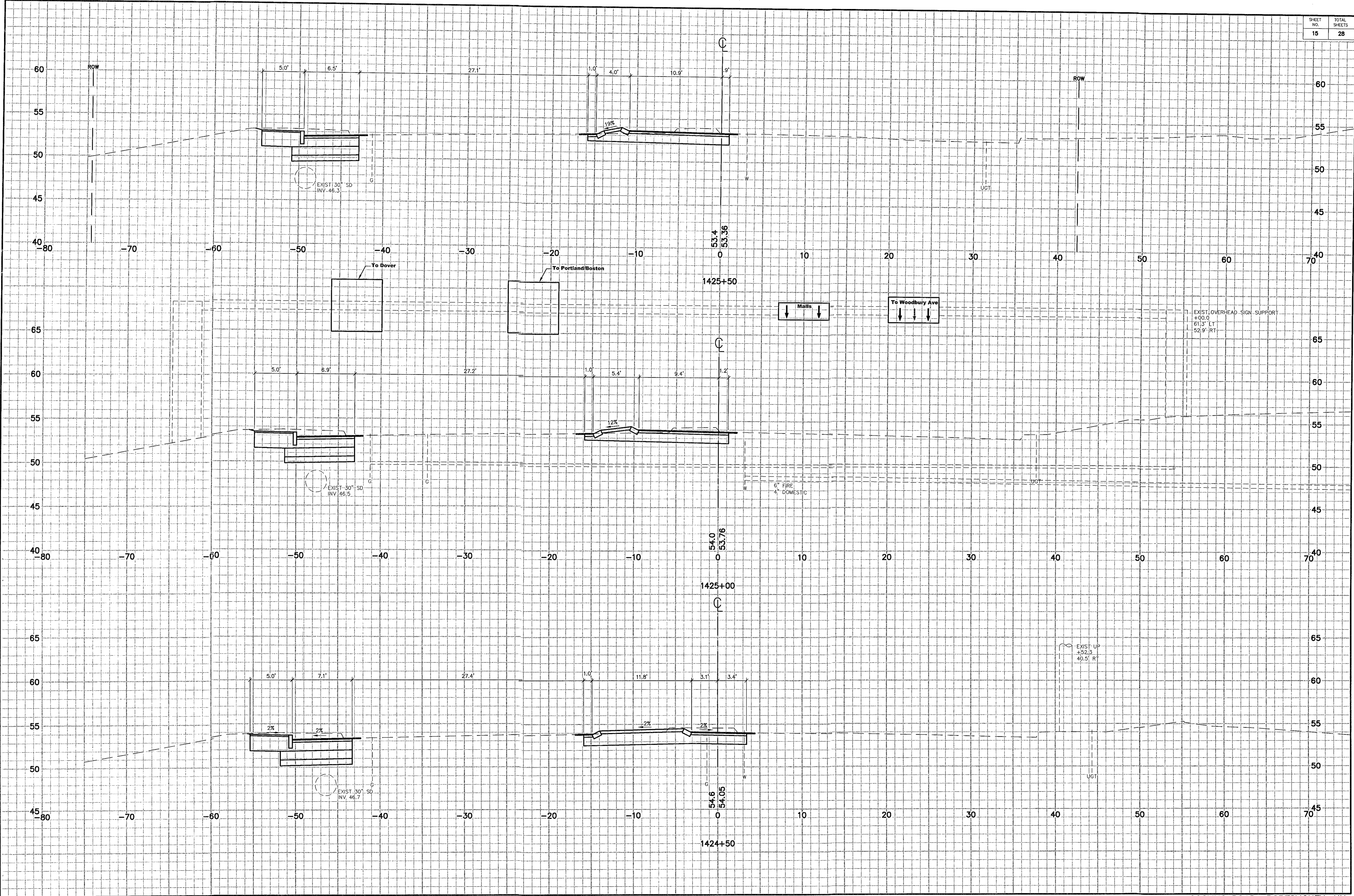
**GP** Gorrill-Palmer Consulting Engineers, Inc.  
 Traffic and Civil Engineering Services  
 PO Box 1237 Gray, ME 04039  
 207-657-6910  
 FAX: 207-657-6912  
 E-Mail: mailbox@gorrillpalmer.com

Drawing Name: **Traffic Signal Plan**  
 Project: **GOSLING ROAD UPGRADE**  
 Client: **City of Portsmouth**  
 1 Jenkins Ave, Portsmouth, NH 03802

Drawing No. **12**



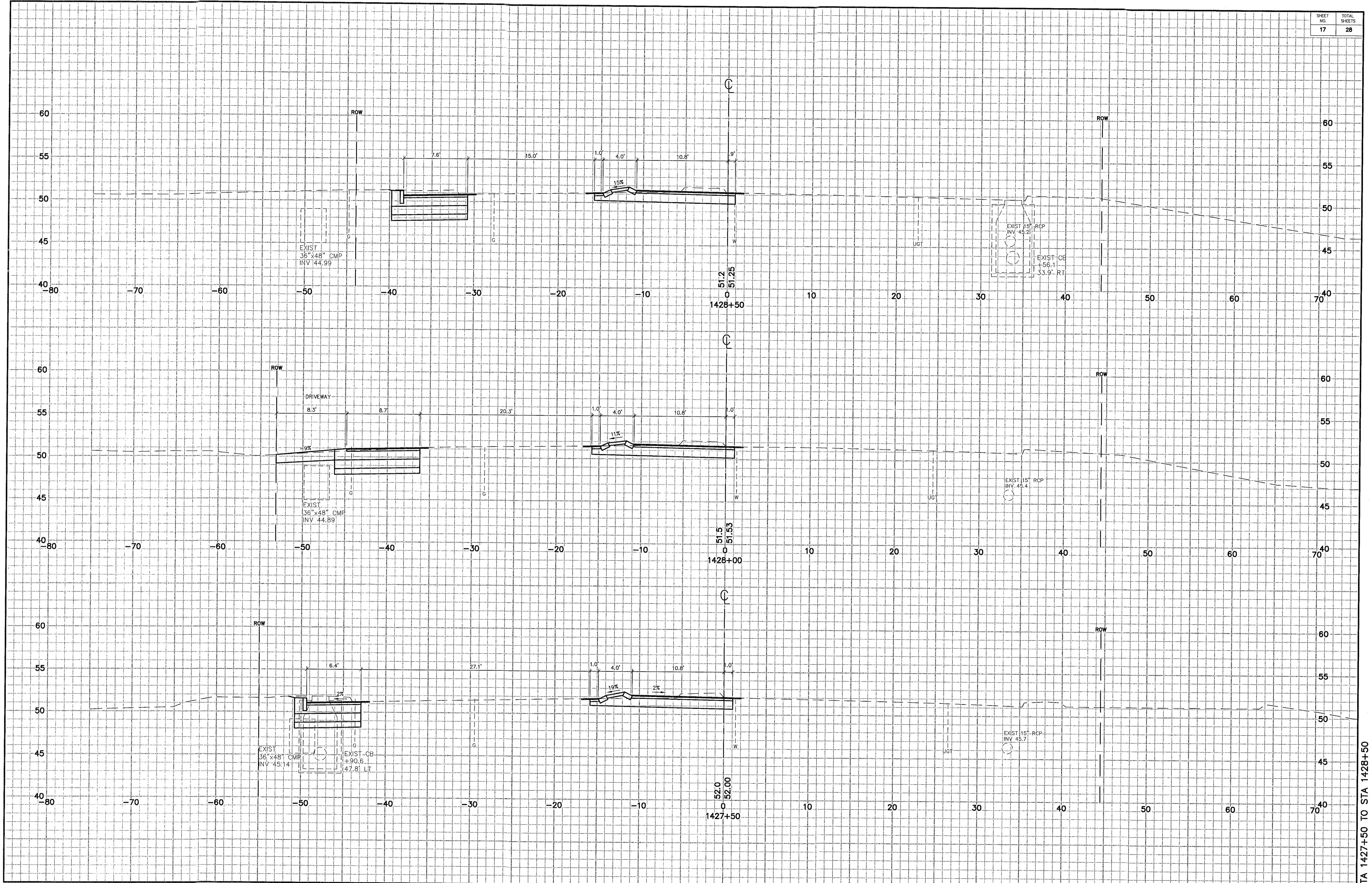


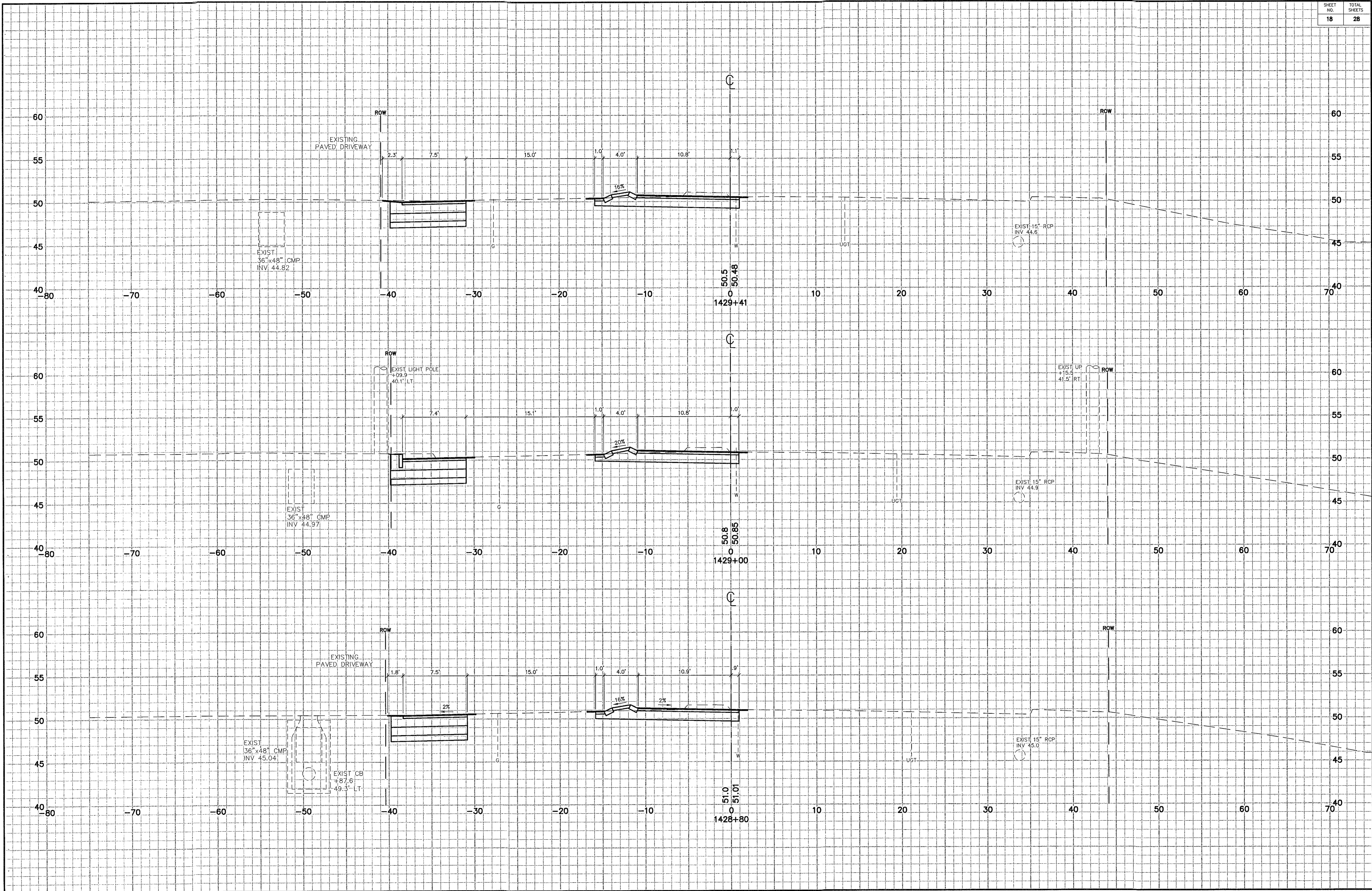


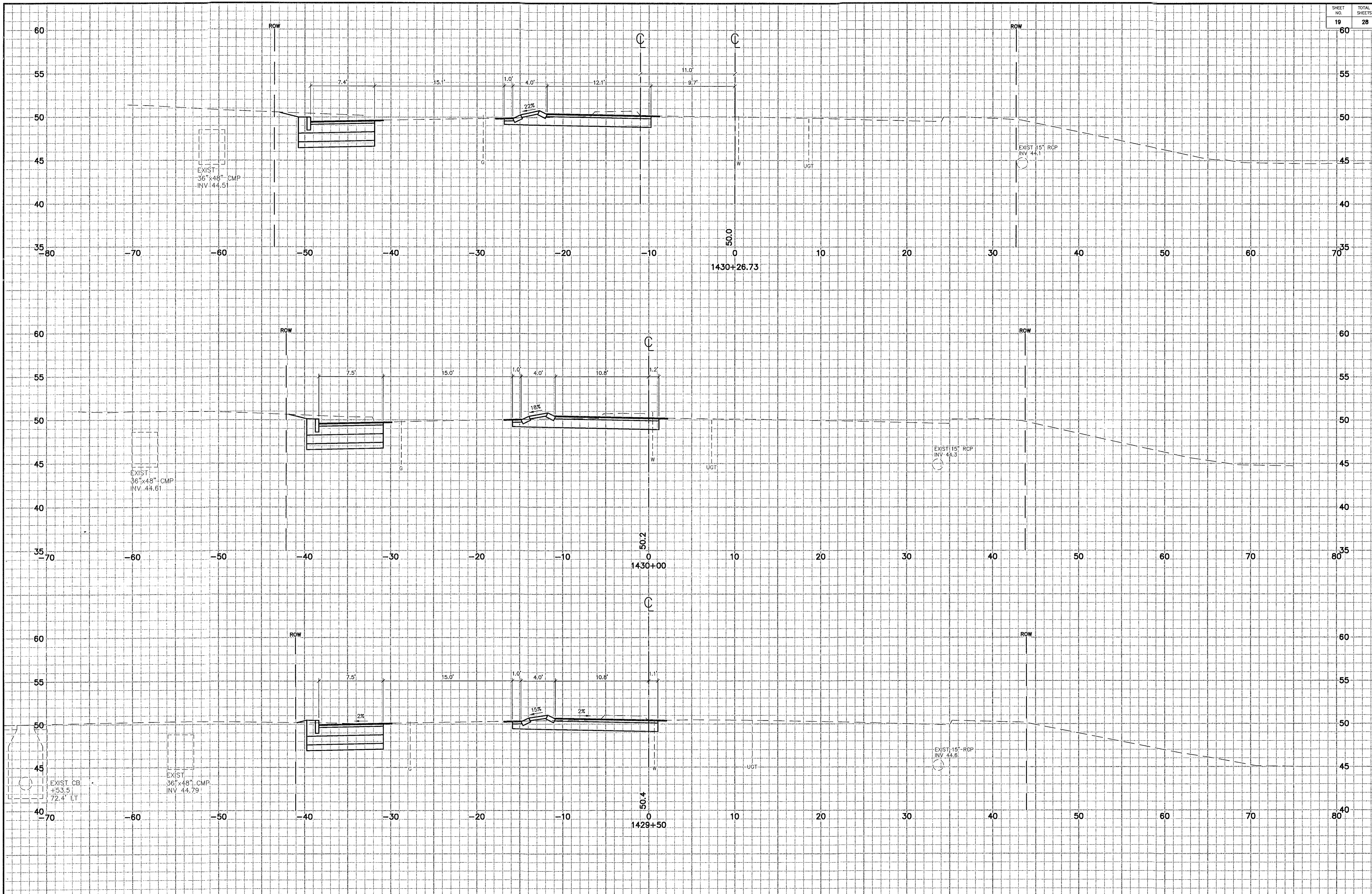
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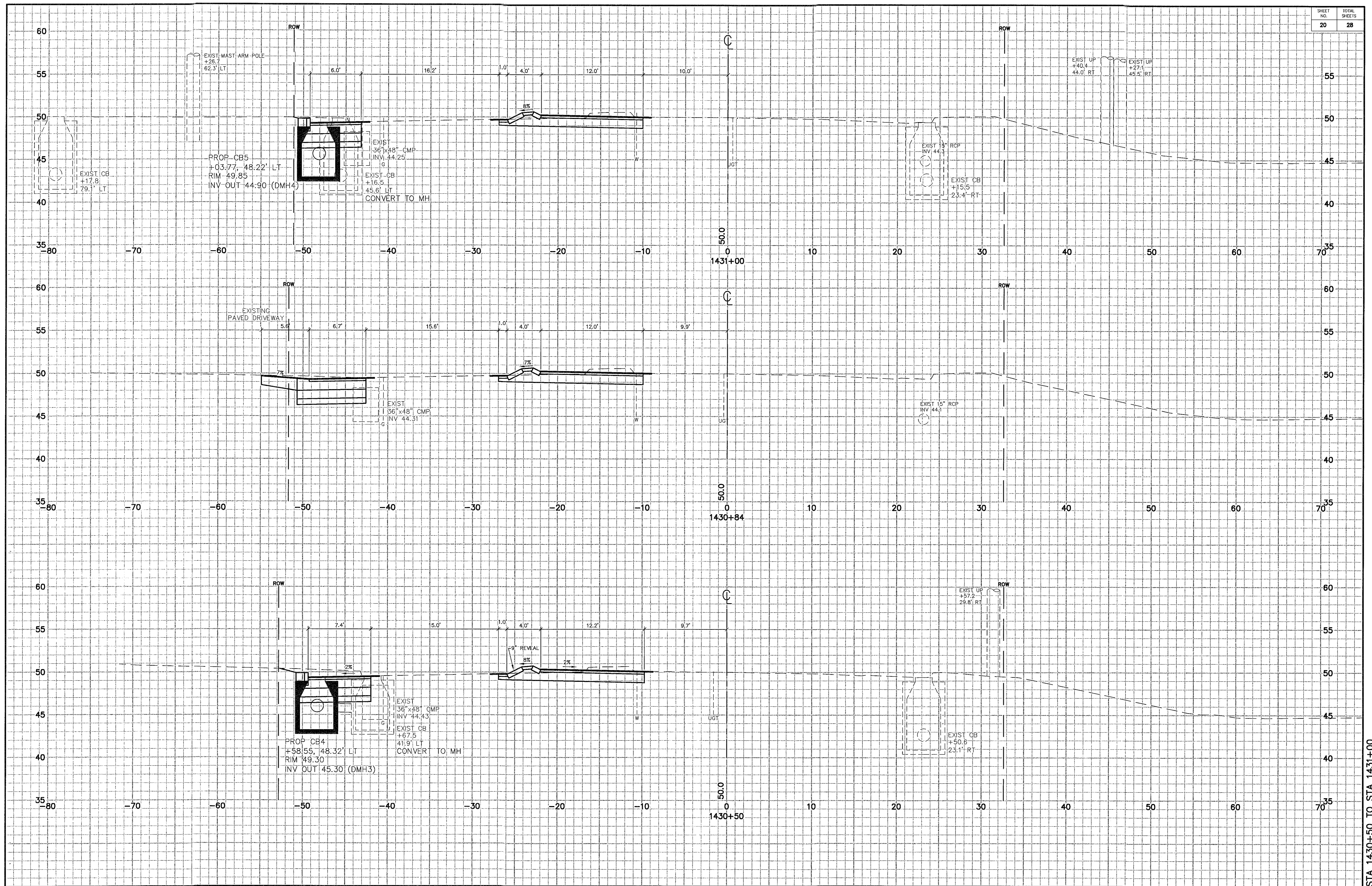


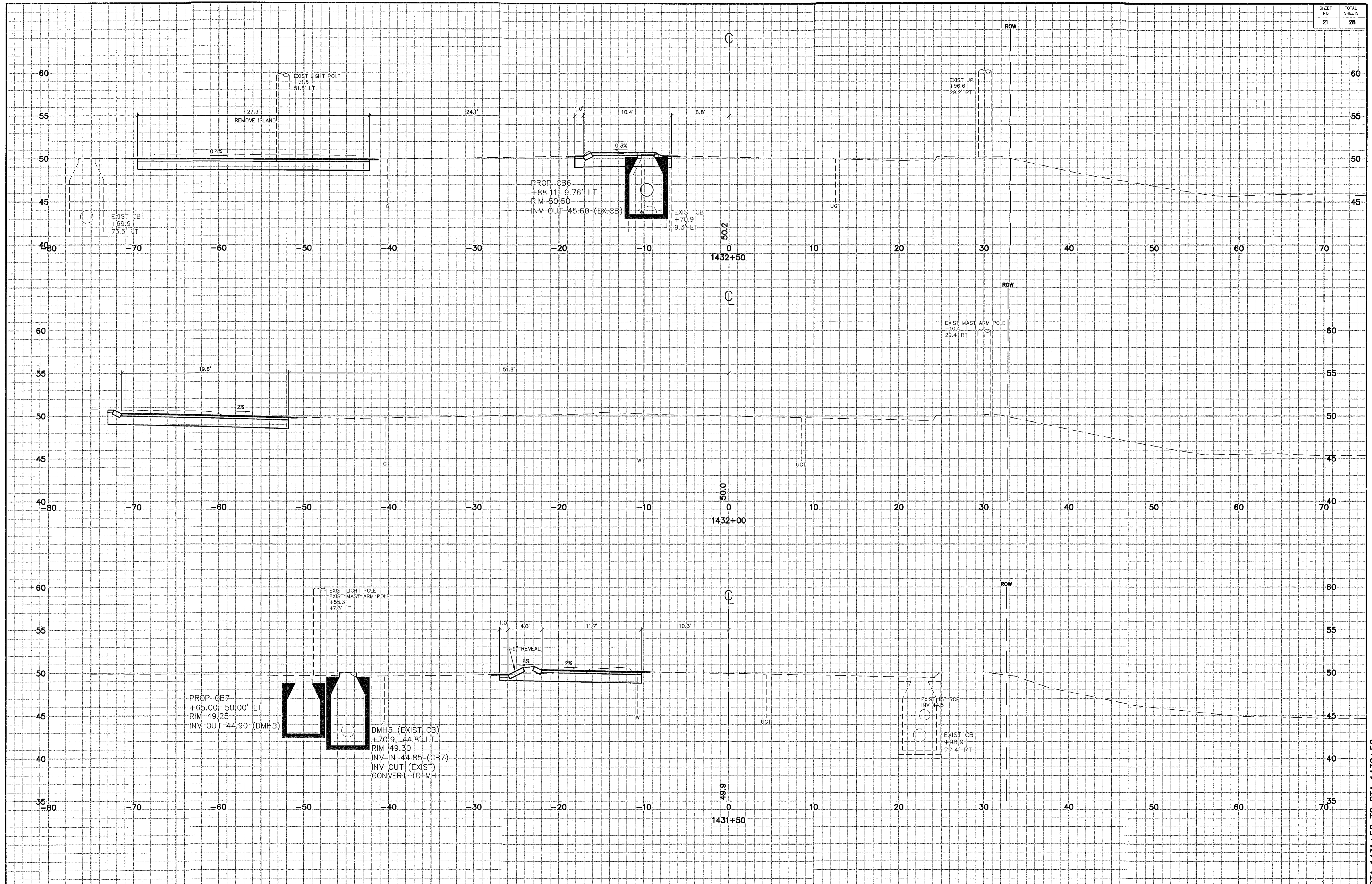




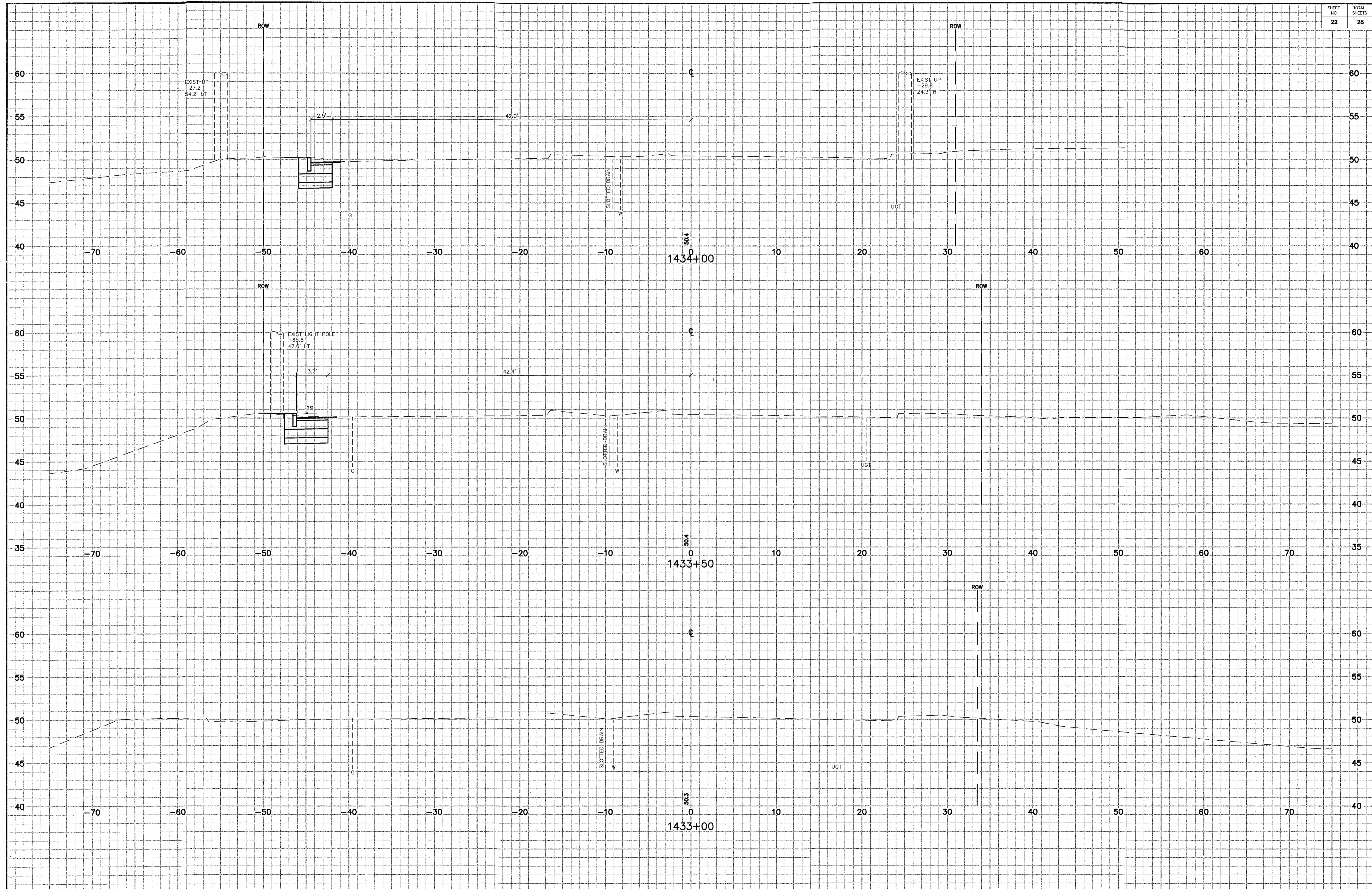


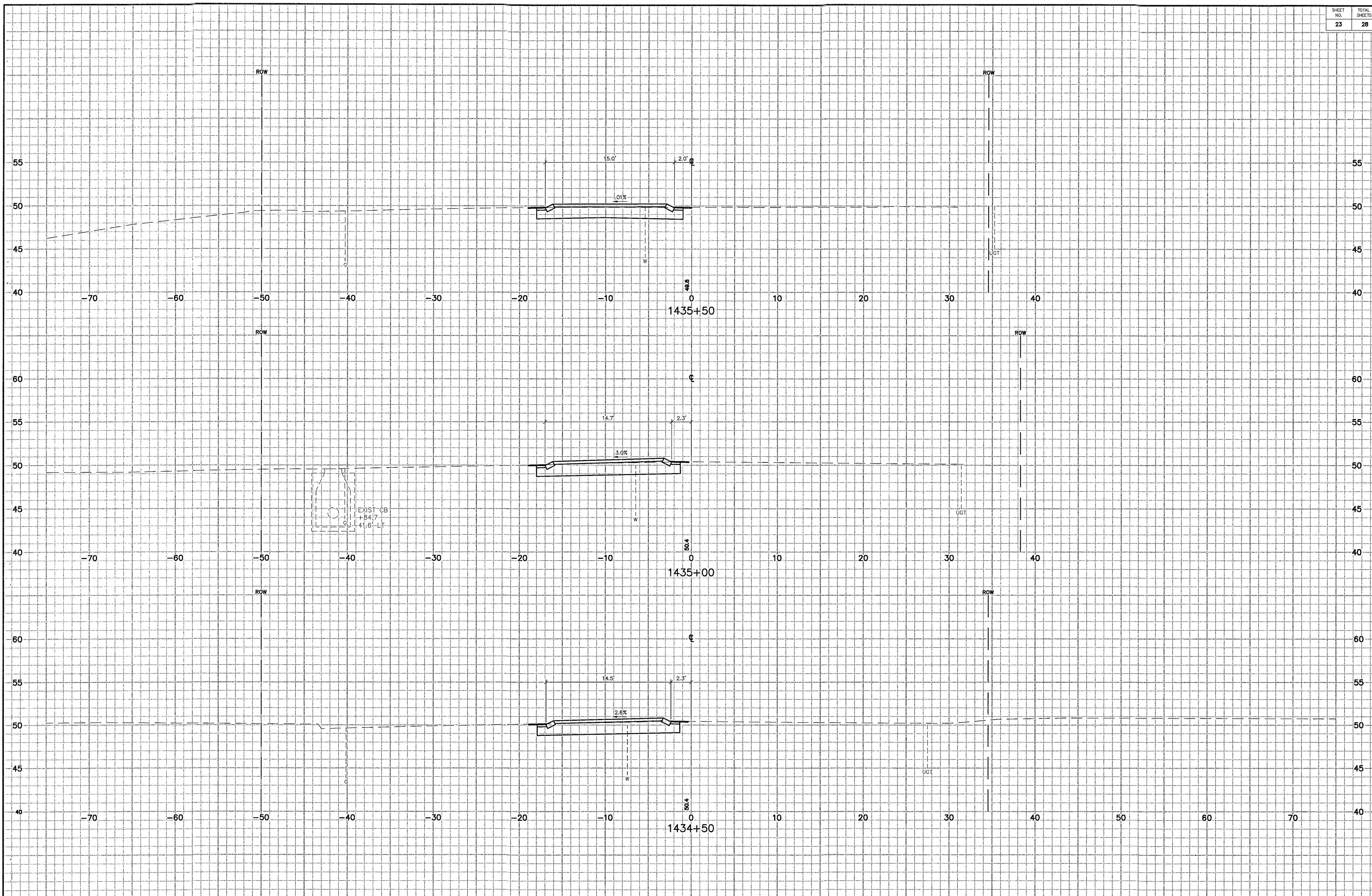


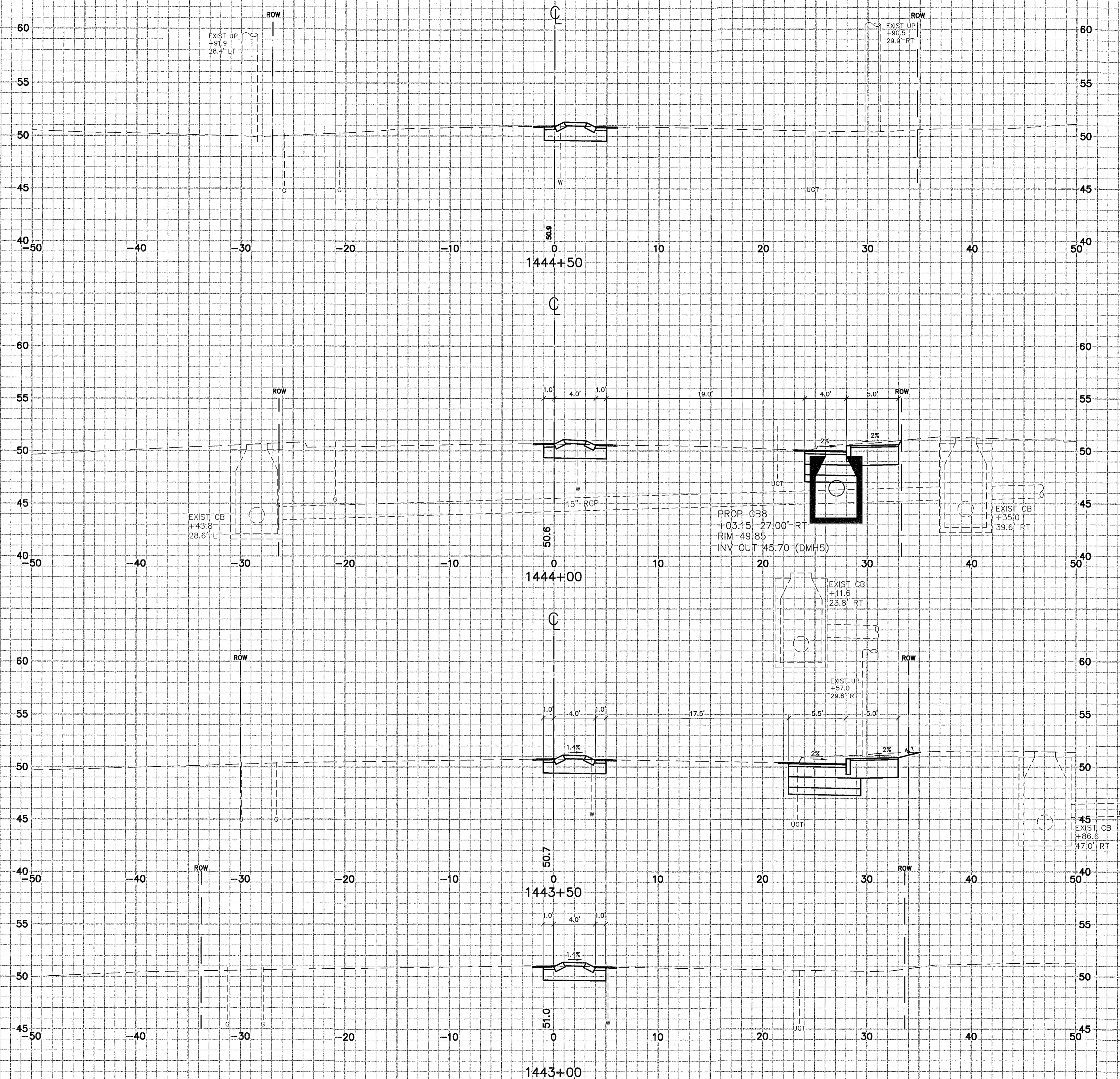




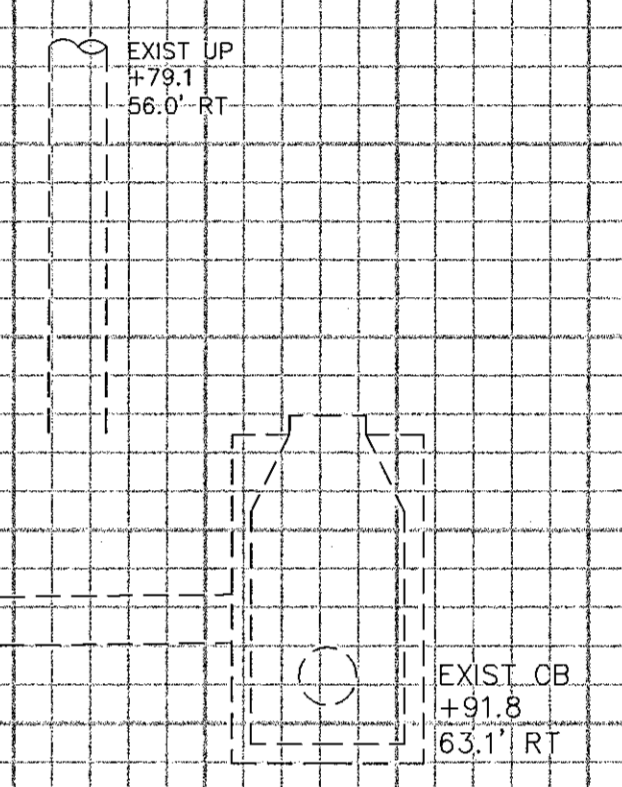
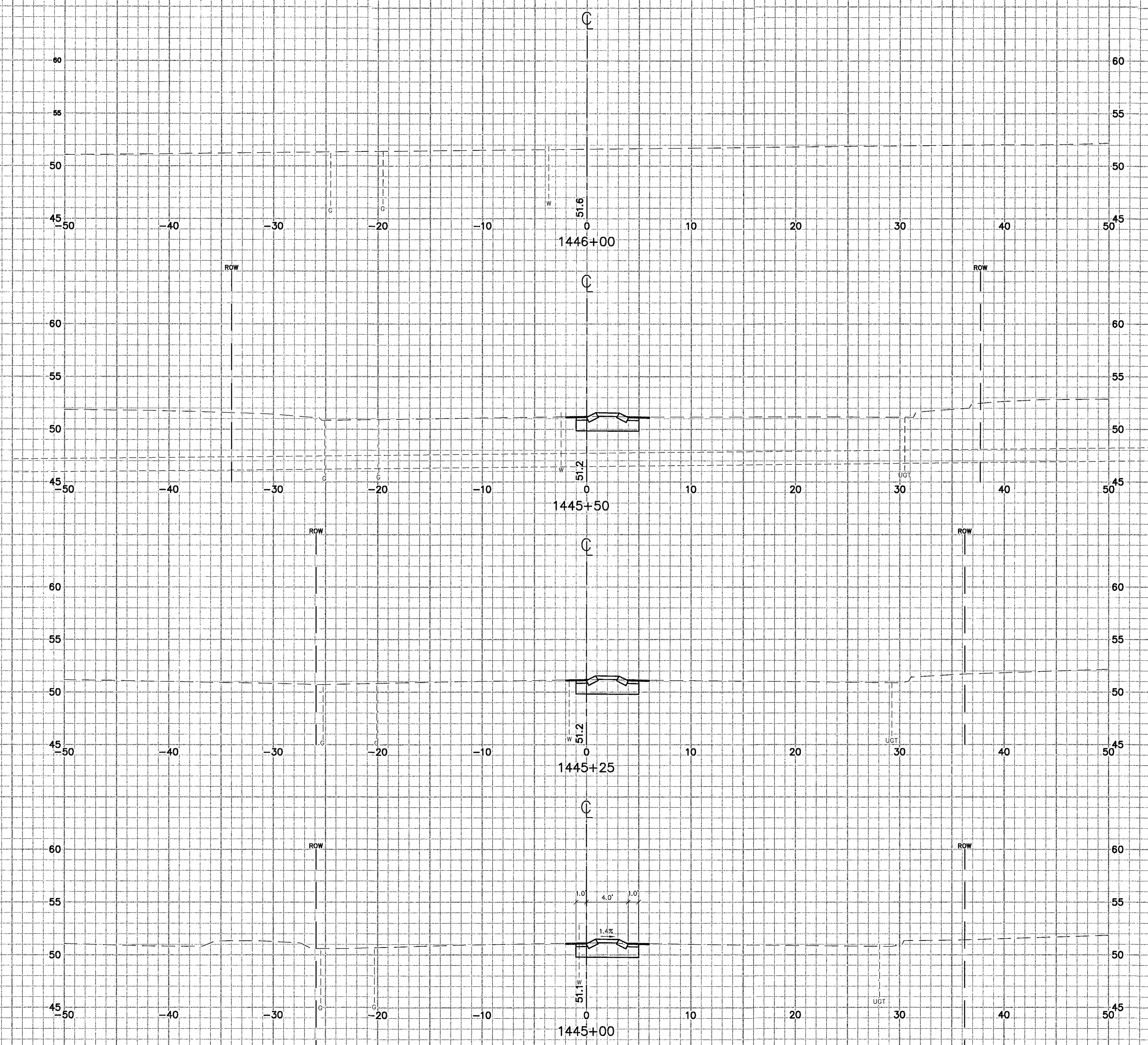
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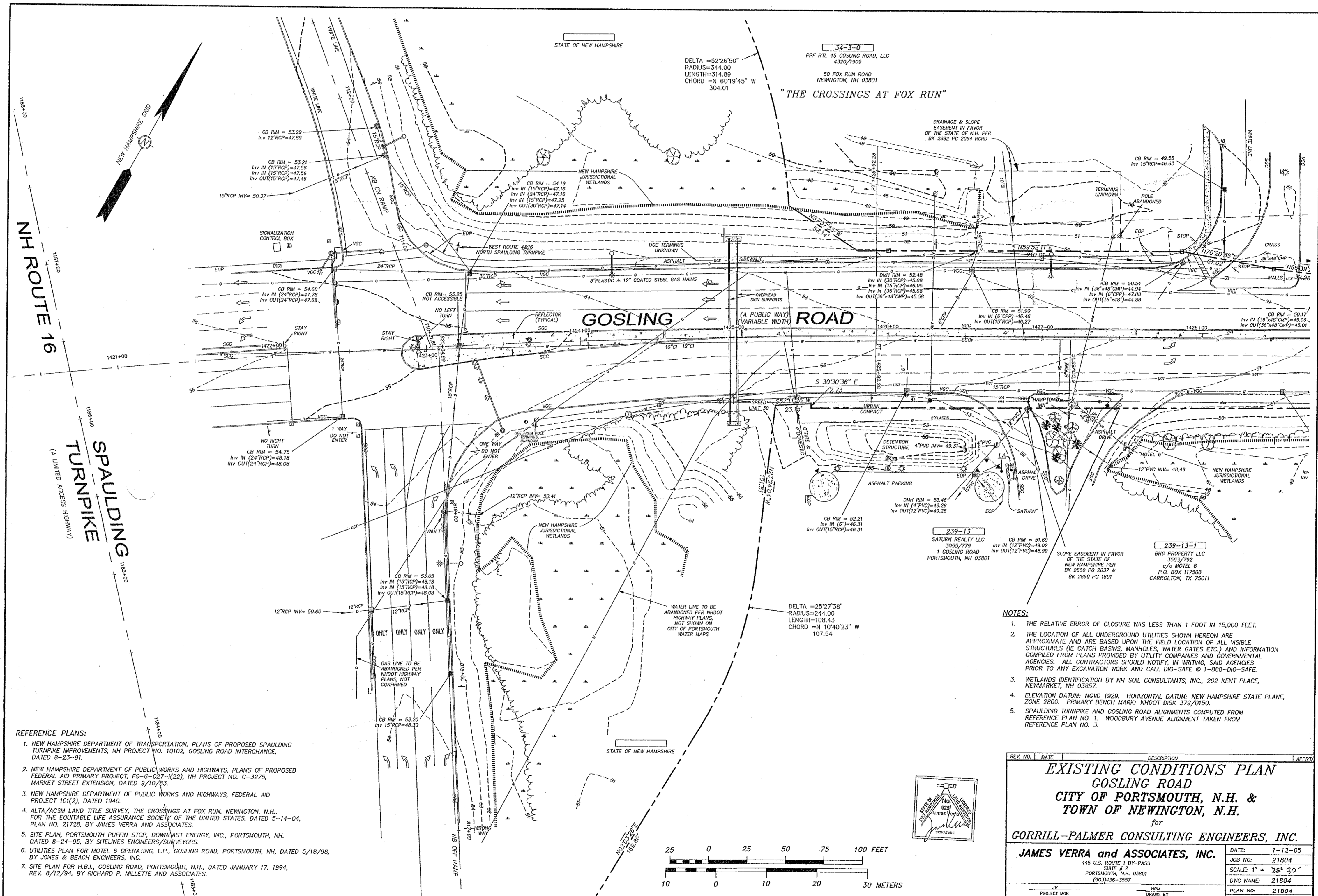






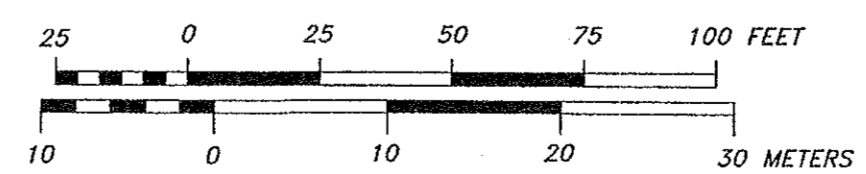






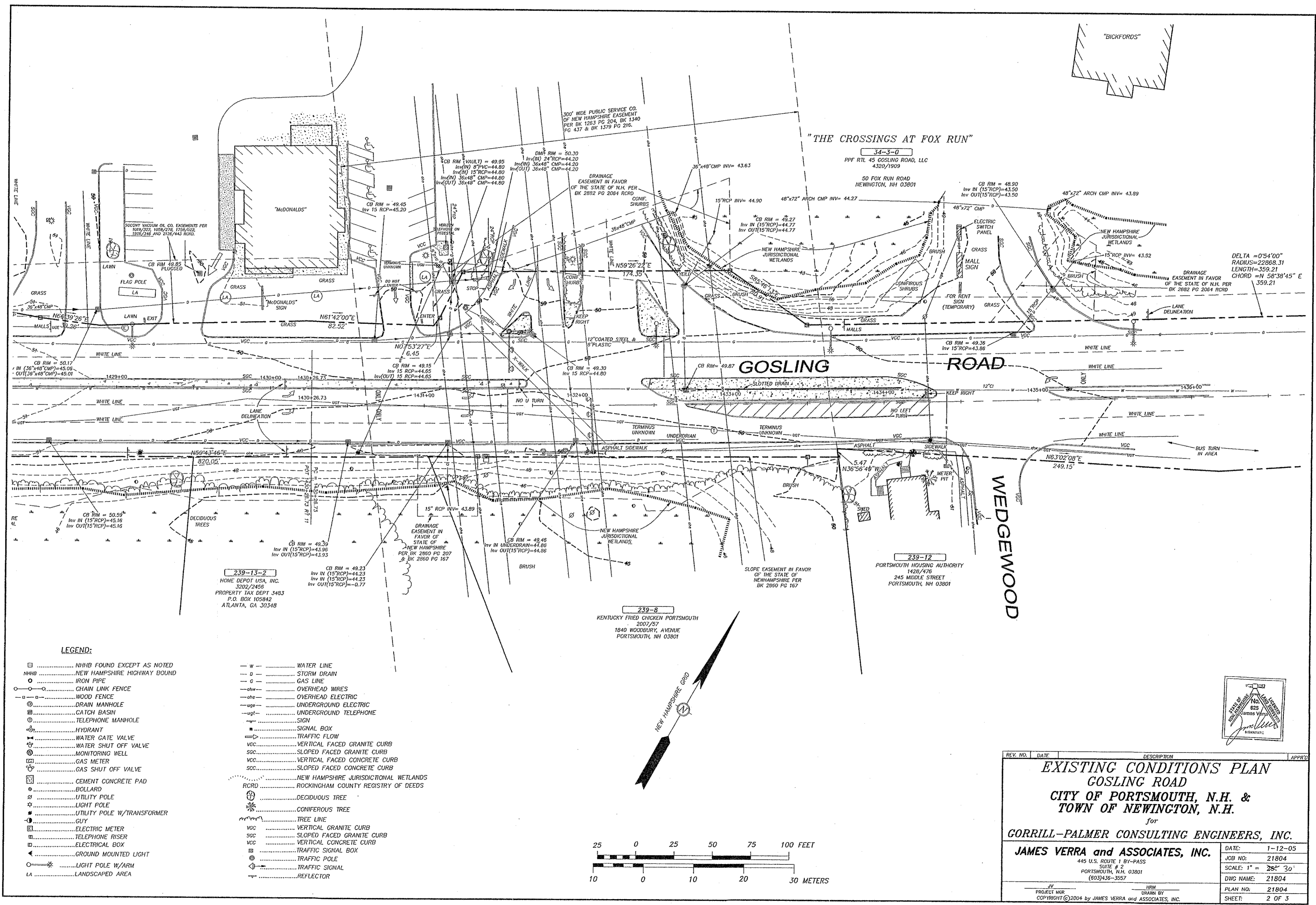
- REFERENCE PLANS:**
1. NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, PLANS OF PROPOSED SPAULDING TURNPIKE IMPROVEMENTS, NH PROJECT NO. 10102, GOSLING ROAD INTERCHANGE, DATED 8-23-91.
  2. NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, PLANS OF PROPOSED FEDERAL AID PRIMARY PROJECT, FG-C-027-(122), NH PROJECT NO. C-3275, MARKET STREET EXTENSION, DATED 9/10/93.
  3. NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS, FEDERAL AID PROJECT 101(2), DATED 1990.
  4. ALTA/ACSM LAND TITLE SURVEY, THE CROSSINGS AT FOX RUN, NEWINGTON, N.H., FOR THE EQUITABLE LIFE ASSURANCE SOCIETY OF THE UNITED STATES, DATED 5-14-04, PLAN NO. 21728, BY JAMES VERRA AND ASSOCIATES.
  5. SITE PLAN, PORTSMOUTH PUFFIN STOP, DOWNEAST ENERGY, INC., PORTSMOUTH, NH, DATED 8-24-99, BY SHELINES ENGINEERS/SURVEYORS.
  6. UTILITIES PLAN FOR MOTEL 6 OPERATING, L.P., GOSLING ROAD, PORTSMOUTH, NH, DATED 5/18/98, BY JONES & BEACH ENGINEERS, INC.
  7. SITE PLAN FOR H.B.I., GOSLING ROAD, PORTSMOUTH, N.H., DATED JANUARY 17, 1994, REV. 8/12/94, BY RICHARD P. MILLETTE AND ASSOCIATES.

- NOTES:**
1. THE RELATIVE ERROR OF CLOSURE WAS LESS THAN 1 FOOT IN 15,000 FEET.
  2. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (IE CATCH BASINS, MANHOLES, WATER GATES ETC.) AND INFORMATION COMPILED FROM PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENTAL AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, SAID AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE @ 1-888-DIG-SAFE.
  3. WETLANDS IDENTIFICATION BY NH SOIL CONSULTANTS, INC., 202 KENT PLACE, NEWMARKET, NH 03857.
  4. ELEVATION DATUM: MVD 1929. HORIZONTAL DATUM: NEW HAMPSHIRE STATE PLANE, ZONE 2800. PRIMARY BENCH MARK: NHDOT DISK 379/0150.
  5. SPAULDING TURNPIKE AND GOSLING ROAD ALIGNMENTS COMPUTED FROM REFERENCE PLAN NO. 1. WOODBURY AVENUE ALIGNMENT TAKEN FROM REFERENCE PLAN NO. 3.



REV. NO.	DATE	DESCRIPTION	APPROV.
<b>EXISTING CONDITIONS PLAN</b>			
<b>GOSLING ROAD</b>			
<b>CITY OF PORTSMOUTH, N.H. &amp; TOWN OF NEWINGTON, N.H.</b>			
for			
<b>CORRILL-PALMER CONSULTING ENGINEERS, INC.</b>			
<b>JAMES VERRA and ASSOCIATES, INC.</b>			
DATE:	1-12-05		
JOB NO.:	21804		
SCALE:	1" = 30'		
DWG NAME:	21804		
PLAN NO.:	21804		
SHEET:	1 OF 3		

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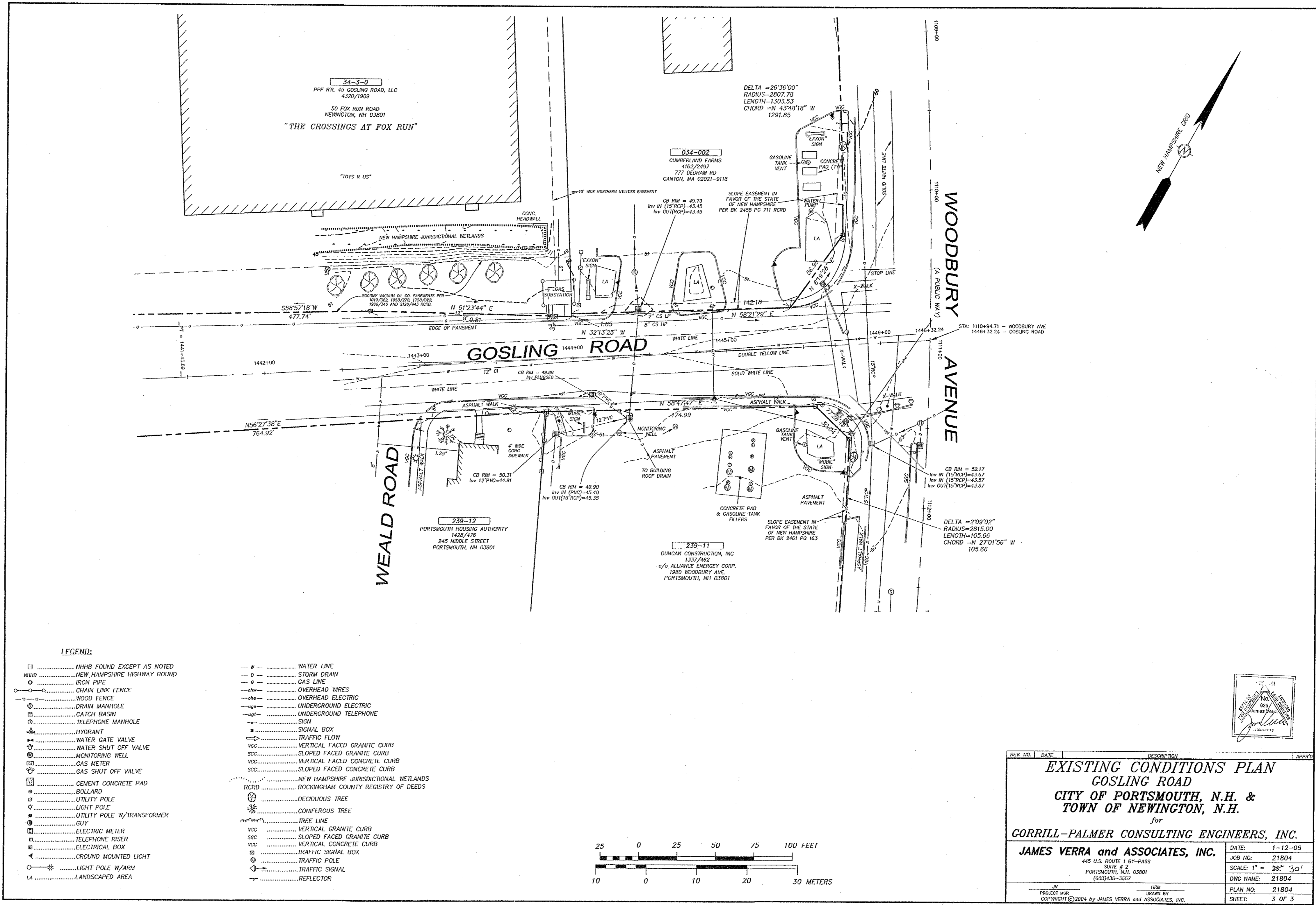


- LEGEND:**
- ..... NH&B FOUND EXCEPT AS NOTED
  - ..... NEW HAMPSHIRE HIGHWAY BOUND
  - ..... IRON PIPE
  - ..... CHAIN LINK FENCE
  - ..... WOOD FENCE
  - ..... DRAIN MANHOLE
  - ..... CATCH BASIN
  - ..... TELEPHONE MANHOLE
  - ..... HYDRANT
  - ..... WATER GATE VALVE
  - ..... WATER SHUT OFF VALVE
  - ..... MONITORING WELL
  - ..... GAS METER
  - ..... GAS SHUT OFF VALVE
  - ..... CEMENT CONCRETE PAD
  - ..... BOLLARD
  - ..... UTILITY POLE
  - ..... LIGHT POLE
  - ..... UTILITY POLE W/TRANSFORMER
  - ..... GUY
  - ..... ELECTRIC METER
  - ..... TELEPHONE RISER
  - ..... ELECTRICAL BOX
  - ..... GROUND MOUNTED LIGHT
  - ..... LIGHT POLE W/ARM
  - ..... LANDSCAPED AREA
  - W — ..... WATER LINE
  - D — ..... STORM DRAIN
  - G — ..... GAS LINE
  - O — ..... OVERHEAD WIRES
  - OE — ..... OVERHEAD ELECTRIC
  - UE — ..... UNDERGROUND ELECTRIC
  - UT — ..... UNDERGROUND TELEPHONE
  - ..... SIGN
  - ..... SIGNAL BOX
  - ..... TRAFFIC FLOW
  - VCC ..... VERTICAL FACED GRANITE CURB
  - SOC ..... SLOPED FACED GRANITE CURB
  - VCC ..... VERTICAL FACED CONCRETE CURB
  - SOC ..... SLOPED FACED CONCRETE CURB
  - ..... NEW HAMPSHIRE JURISDICTIONAL WETLANDS
  - RCRD ..... ROCKINGHAM COUNTY REGISTRY OF DEEDS
  - ..... DECIDUOUS TREE
  - ..... CONIFEROUS TREE
  - ..... TREE LINE
  - VCC ..... VERTICAL GRANITE CURB
  - SOC ..... SLOPED FACED GRANITE CURB
  - VCC ..... VERTICAL CONCRETE CURB
  - SOC ..... SLOPED FACED CONCRETE CURB
  - ..... TRAFFIC SIGNAL BOX
  - ..... TRAFFIC POLE
  - ..... TRAFFIC SIGNAL
  - ..... REFLECTOR

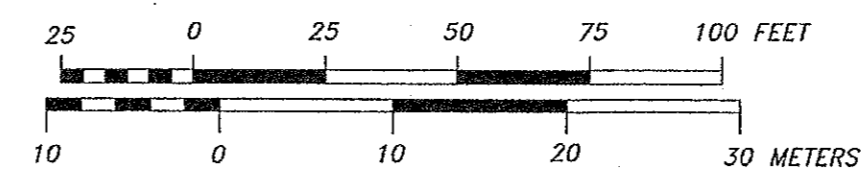
REV. NO.	DATE	DESCRIPTION	APPROV.
<b>EXISTING CONDITIONS PLAN</b>			
<b>GOSLING ROAD</b>			
<b>CITY OF PORTSMOUTH, N.H. &amp; TOWN OF NEWINGTON, N.H.</b>			
for			
<b>CORRILL-PALMER CONSULTING ENGINEERS, INC.</b>			
<b>JAMES VERRA and ASSOCIATES, INC.</b> 449 U.S. ROUTE 1 BY-PASS PORTSMOUTH, N.H. 03801 (603) 436-3527		DATE: 1-12-05 JOB NO.: 21804 SCALE: 1" = 30' 30" DWG NAME: 21804 PLAN NO.: 21804 SHEET: 2 OF 3	

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2/15/05



- LEGEND:**
- ..... NHHS FOUND EXCEPT AS NOTED
  - NHHS ..... NEW HAMPSHIRE HIGHWAY BOUND
  - ..... IRON PIPE
  - ..... CHAIN LINK FENCE
  - ..... WOOD FENCE
  - ⊙ ..... DRAIN MANHOLE
  - ⊙ ..... CATY BASKY
  - ⊙ ..... TELEPHONE MANHOLE
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  - ⊙ ..... WATER SHUT OFF VALVE
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  - RCRD ..... NEW HAMPSHIRE JURISDICTIONAL WETLANDS
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  - ⊙ ..... TRAFFIC SIGNAL BOX
  - ⊙ ..... TRAFFIC POLE
  - ⊙ ..... TRAFFIC SIGNAL
  - ⊙ ..... REFLECTOR



REV. NO.	DATE	DESCRIPTION	APPROV.
<b>EXISTING CONDITIONS PLAN</b>			
<b>GOSLING ROAD</b>			
<b>CITY OF PORTSMOUTH, N.H. &amp; TOWN OF NEWINGTON, N.H.</b>			
for			
<b>CORRILL-PALMER CONSULTING ENGINEERS, INC.</b>			
<b>JAMES VERRA and ASSOCIATES, INC.</b>		DATE: 1-12-05	
445 U.S. ROUTE 1 BY-PASS		JOB NO.: 21804	
SUITE # 2		SCALE: 1" = 20' 30"	
PORTSMOUTH, N.H. 03801		DWG NAME: 21804	
(603)436-3557		PLAN NO.: 21804	
JV	HEM	PROJECT MGR	DRAWN BY
COPYRIGHT © 2004 by JAMES VERRA and ASSOCIATES, INC.		SHEET: 5 OF 5	

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