

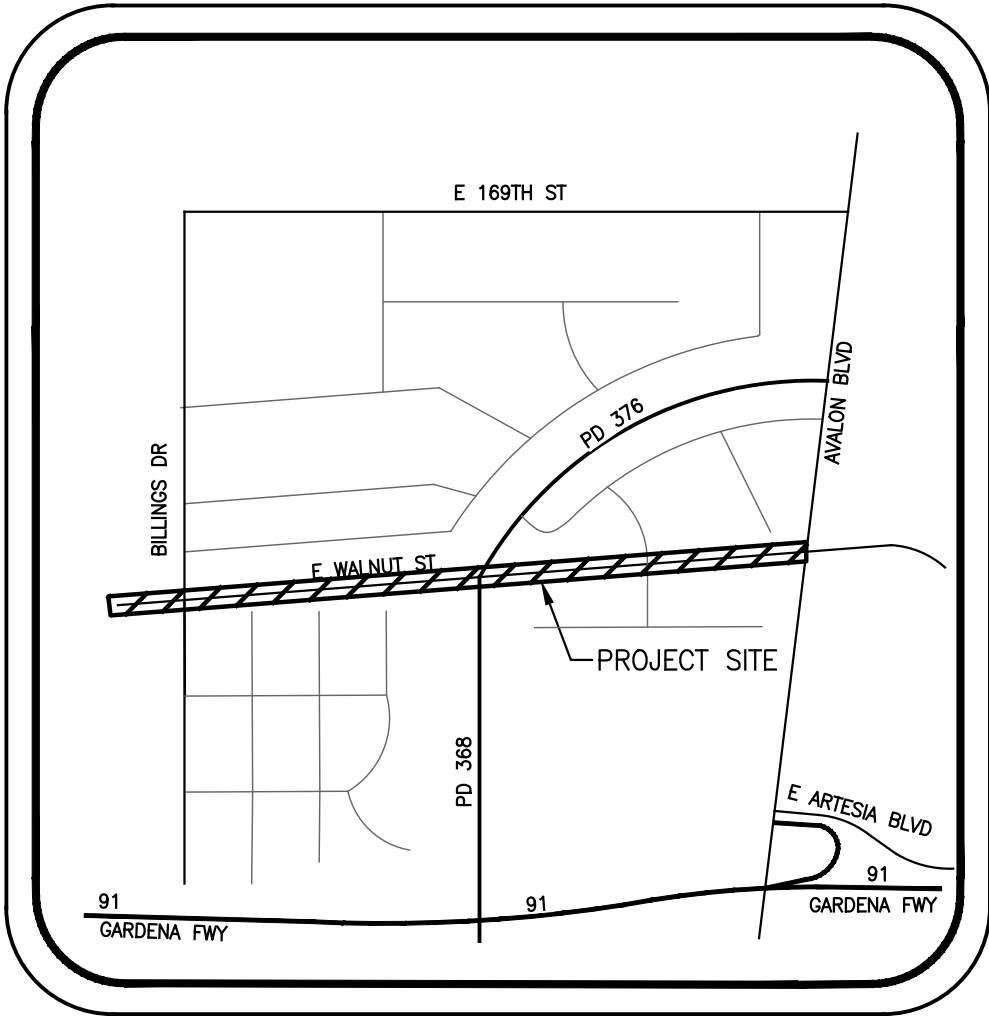
CITY OF CARSON

WALNUT AVENUE STREET IMPROVEMENT

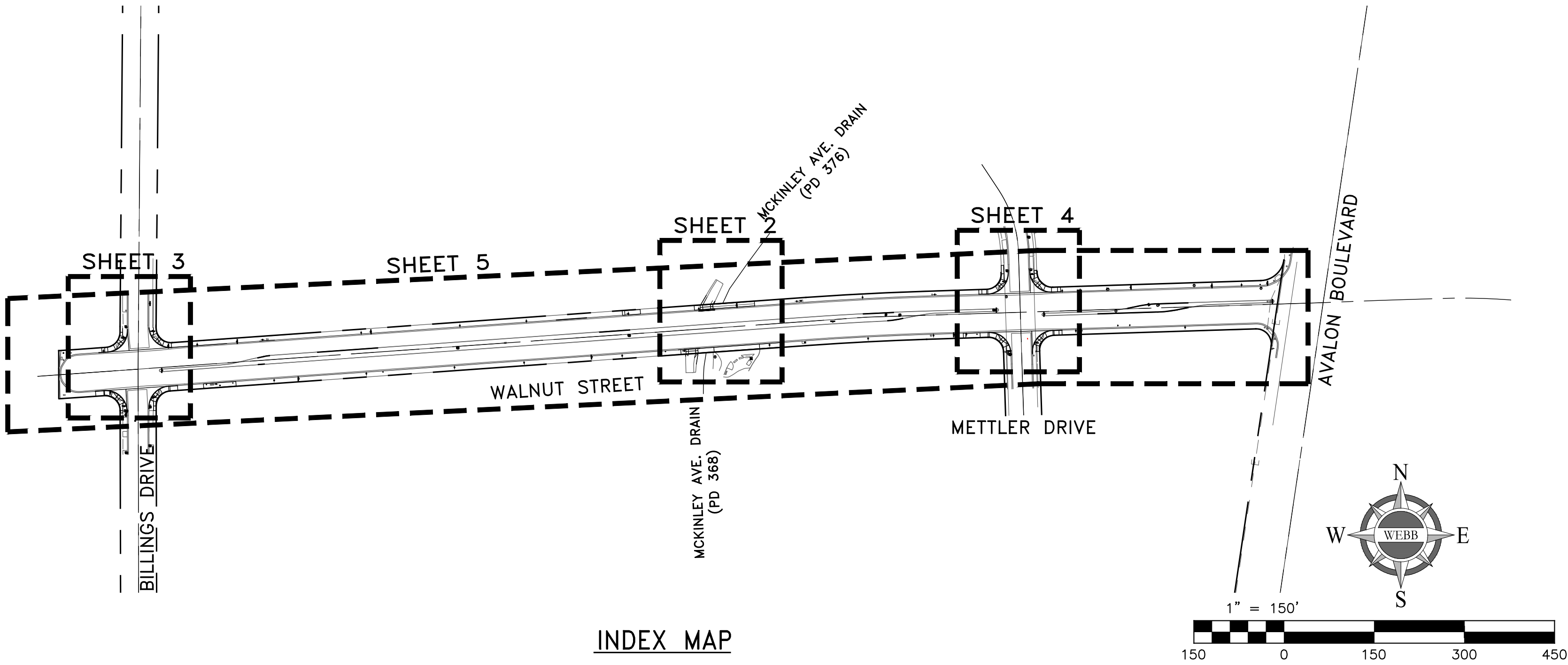
AVALON BLVD TO BILLINGS DR.

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE CITY OF CARSON, STANDARD DRAWINGS, AMERICAN PUBLIC WORKS ASSOCIATION AND CALTRANS STANDARD PLANS AND SPECIFICATIONS. (ALL LATEST EDITION)
2. CONSTRUCTION PERFORMANCE BOND SHALL BE POSTED THROUGH CITY OF CARSON ENGINEERING SERVICES DIVISION PRIOR TO CONSTRUCTION PERMIT ISSUANCE. CONSTRUCTION BOND IS BASED ON ESTIMATED CONSTRUCTION COST AS REVIEWED AND APPROVED BY THE CITY ENGINEER.
3. CONSTRUCTION PERMIT FROM THE CITY OF CARSON ENGINEERING SERVICES DIVISION SHALL BE OBTAINED AT LEAST SEVEN (7) DAYS PRIOR TO PRE-CONSTRUCTION MEETING. (A TOTAL OF 21-DAYS PRIOR TO START OF CONSTRUCTION)
4. PRE-CONSTRUCTION MEETING SHALL BE COORDINATED AND COMPLETED THROUGH CITY OF CARSON ENGINEERING SERVICES DIVISION AT LEAST 14-DAYS PRIOR TO START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEERING SERVICES FOR INSPECTION A MINIMUM OF 48-HRS PRIOR TO STARTING WORK AT (310) 952-1700 EXT. 1795
6. WORKING HOURS SHALL BE 9:00 AM TO 3:00 PM FOR ARTERIAL STREETS AND 7:00 AM TO 3:00 PM FOR LOCAL/RESIDENTIAL STREETS, UNLESS OTHERWISE APPROVED.
7. STAGING AREAS FOR CONSTRUCTION MATERIALS AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. PEDESTRIANS AND/OR VEHICULAR ACCESS SHALL BE ALLOWED AT ALL TIMES, UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER. PROHIBITING PEDESTRIAN AND/OR VEHICULAR ACCESS REQUIRES DETOUR AND/OR ACCESS CLOSURE PLANS SUBJECT TO REVIEW AND APPROVAL OF THE CITY ENGINEER.
9. OVERNIGHT TRAFFIC CONTROLS SHALL BE REVIEWED AND APPROVED BY TRAFFIC ENGINEER, PRIOR TO PRE-CONSTRUCTION MEETING. OTHERWISE TRAFFIC CONTROL SHALL BE PER CA M.U.T.C.D MANUAL, LATEST EDITION.
10. CONTRACTOR SHALL NOTIFY AFFECTED RESIDENTS, BUSINESSES AND AGENCIES 72-HOURS PRIOR TO START OF CONSTRUCTION, AT THE DISCRETION OF THE CITY ENGINEER.
11. DAMAGED EXISTING IMPROVEMENTS, NOT PART OF THE SCOPE OF WORK, SHALL BE PROTECTED IN-PLACE AND SHALL BE REPLACED IN KIND AT NO COST TO THE CITY, TO THE SATISFACTION OF THE CITY ENGINEER.
12. NO TRENCHES MAY BE LEFT OPEN OVERNIGHT UNLESS APPROVED BY THE CITY ENGINEER.
13. IF ANY UTILITIES OR FACILITIES CONFLICT WITH PROPOSED IMPROVEMENTS, ALL WORK SHALL STOP AND THE CITY ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
14. CONTRACTOR SHALL COORDINATE AND/OR OBTAIN NECESSARY PERMITS FROM AFFECTED AGENCIES.
15. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) 48-HRS PRIOR TO START WORK. UPON EXPOSING ANY UTILITY'S UNDERGROUND FACILITY THE CONTRACTOR SHALL NOTIFY THAT OWNER OF THAT UTILITY IMMEDIATELY.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES WITHIN THE ALIGNMENT OF THE PROPOSED IMPROVEMENTS, AND IN THE EVENT OF SUBSTRUCTURE DAMAGE, THE CONTRACTOR SHALL BEAR ALL THE COST OF REPAIR OR REPLACEMENT.
17. CONTRACTOR SHALL HAVE SUFFICIENT MATERIALS ON HAND AT ALL TIMES TO EXPEDITE ANY EMERGENCY REPAIR.
18. AS REQUIRED BY THE CITY ENGINEER, THE CONTRACTOR SHALL FURNISH AND OPERATE A SELF-LOADING MOTOR SWEEPER WITH SPRAY NOZZLES AT LEAST TWICE EACH WORKING DAY TO KEEP PAVED AREAS ACCEPTABLY CLEAN WHEREVER CONSTRUCTION IS INCOMPLETE.
19. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES DURING CONSTRUCTION AMPLE MEANS AND DEVICES WITH WHICH TO PROMPTLY REMOVE AND PROPERLY DISPOSE OF ALL WATER FROM ANY SOURCE ENTERING THE EXCAVATION OR OTHER PARTS OF THE WORK.
20. CONTRACTOR SHALL COMPLY WITH ALL STORMWATER POLLUTION CONTROL PER REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) REQUIREMENTS, INCLUDING BUT NOT LIMITED TO BEST MANAGEMENT PRACTICE (BMPs)
21. CONTRACTOR SHALL APPLY FOR AND OBTAIN A TREE REMOVAL PERMIT WHEN DEMOLISHING AN EXISTING TREE WITHIN THE PUBLIC RIGHT-OF-WAY. REFER TO "EXHIBIT B" OF ARTICLE III, CHAPTER 9 OF THE CITY OF CARSON MUNICIPAL CODE AND CONTACT GREGORY MACDONALD, TREE AND CONCRETE MAINTENANCE SUPERVISOR, AT (310) 847-3500.
22. CONTRACTOR SHALL PROVIDE TREE PROTECTION FOR TREES WITHIN THE PUBLIC RIGHT-OF-WAY PER ARTICLE III, CHAPTER 9, SECTION 3928 OF THE CITY OF CARSON MUNICIPAL CODE.



VICINITY MAP
NTS



INDEX MAP

ABBREVIATIONS:

- AC ASPHALT CONCRETE
- AB AGGREGATE BASE
- AV AIR VALVE
- BC BEGIN CURVE
- EC END CURVE
- EX EXISTING
- FH FIRE HYDRANT
- FS FINISH SURFACE
- TC TOP CURB
- GL GUTTER LIP
- WM WATER METER
- MH MANHOLE
- IRR. IRRIGATION
- PCC PORTLAND CEMENT CONCRETE
- PP POWER POLE
- PB PULLBOX
- WM WATER METER

LEGEND:

- CONSTRUCT "X" AC OVER "X" AB.
- REMOVE EXISTING AC AND BASE
- GRIND AND OVERLAY
- FLOWLINE
- SAWCUT

INDEX OF SHEETS:

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	DRIVEWAY DETAILS
3-4	CURB RAMP AND CROSS GUTTER
5	STREET IMPROVEMENT PLAN
6	SIGNING AND STRIPING PLAN

STAMP

NICHOLAS R. LOWE

NO. 87666

CIVIL

STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES

ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA 92506
PH. (951) 686-1070
FAX (951) 788-1256

DESIGNED BY: NAA
CHECKED BY: NRL
R.C.E. NO.: 87666

BENCHMARK:
NO. 43-H ELEV. 53.9' (NAVD 88)
DATE ADJ. _____ QUAD. _____

CUT SPIKE NO. 43-H, IN THE TOP OF THE CONCRETE FOOTING FOR THE SOUTHERLY LEG OF THE POWER TRANSMISSION TOWER 1339, 0.6 OF A MILE NORTHERLY FROM VICTORIA STREET, 0.7 OF A MILE SOUTHERLY FROM ALONDRA BOULEVARD.

DRAFT

NICHOLAS R. LOWE

DATE:

REVISIONS			
NO	DESCRIPTION	APPROVE	DATE

CITY OF CARSON

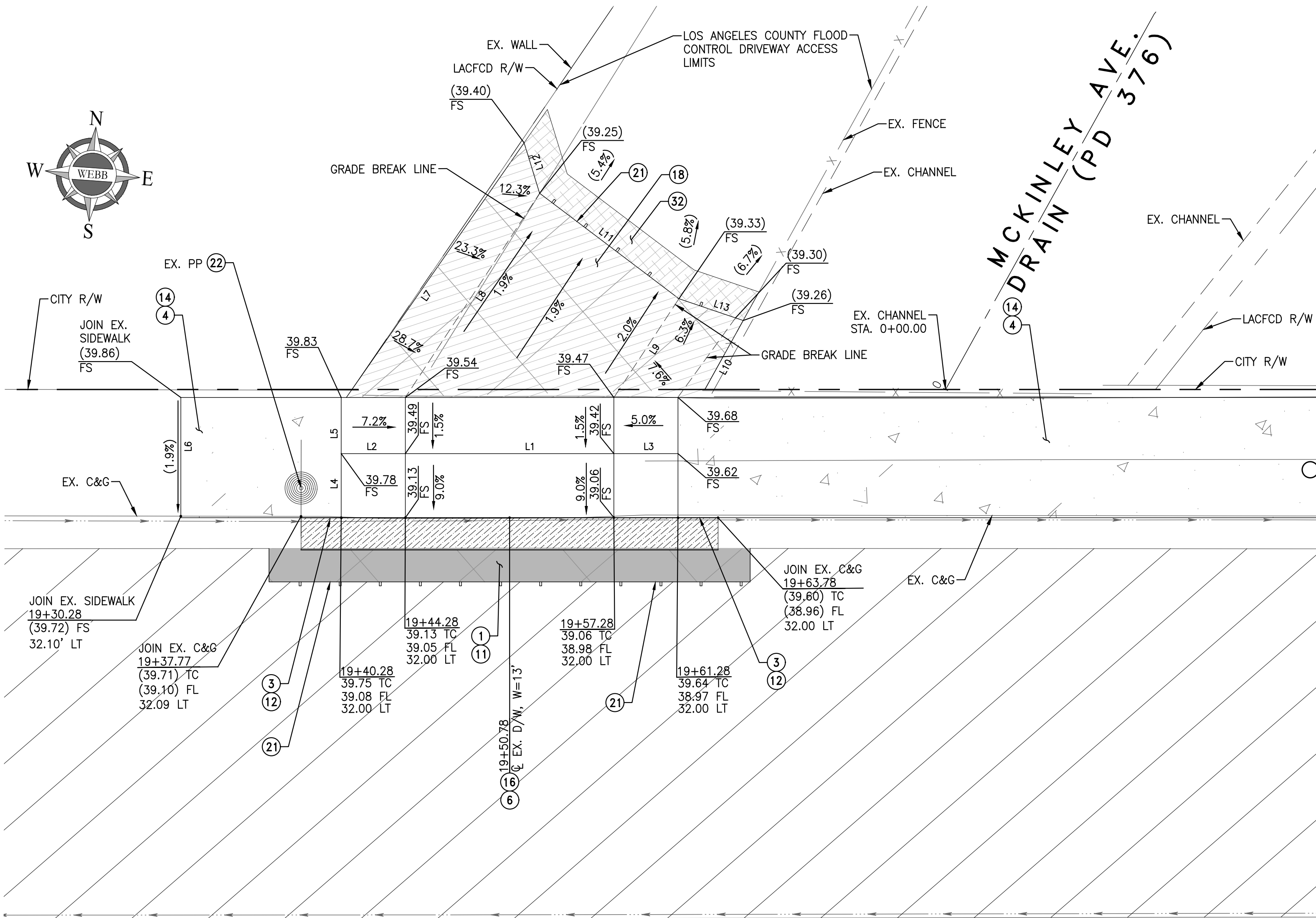
ENGINEERING SERVICES DIVISION

STREET IMPROVEMENTS
WALNUT AVENUE STREET
AVALON BLVD. TO BILLINGS DR.
TITLE SHEET

PROJECT NO.
23-0191

SHEET
1 OF 6

PLAN NO.

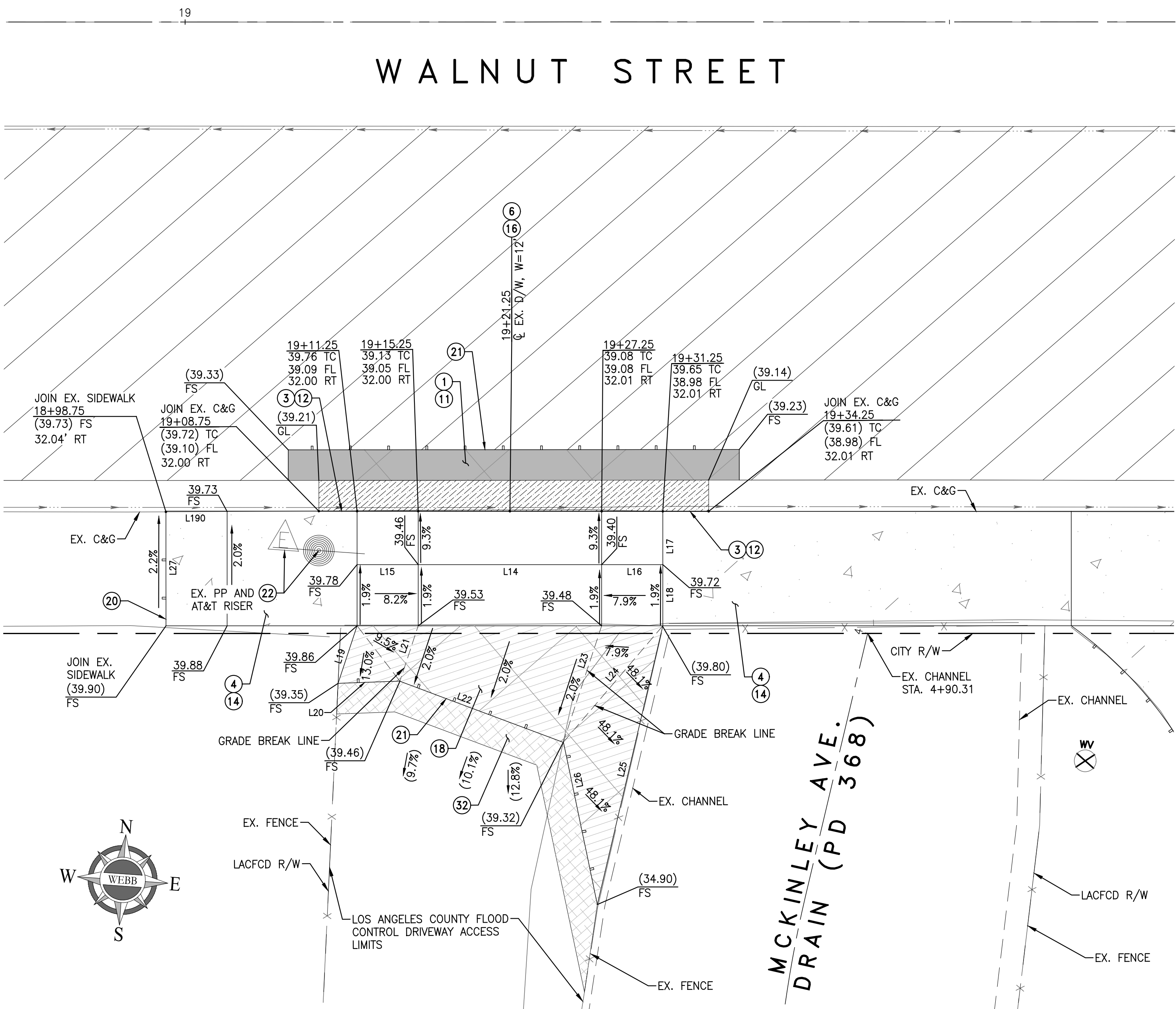


WALNUT STREET

DRIVEWAY CONSTRUCTION DETAIL No. 1

1"=5' SCALE

REVIEWED	SUBMITTED	APPROVED
John Merrill, PE, TE - City Traffic Engineer	Kenneth Young, PE - Senior Civil Engineer	Gilbert Marquez, PE - City Engineer
DATE:	DATE:	DATE:



DRIVEWAY CONSTRUCTION DETAIL No. 2

1"=5' SCALE

CONSTRUCTION NOTES

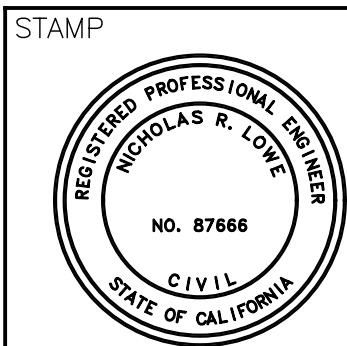
- CONSTRUCT 5" AC OVER 12" CLASS II AGGREGATE BASE. INSTALL CALTRANS CLASS B1 GEOTEXTILE BETWEEN SUBGRADE AND BASE. CONTRACTOR SHALL CONSTRUCT VARIABLE THICKNESS AC TO MATCH SURFACE ELEVATION OF ADJACENT PAVEMENT.
- CONSTRUCT 8" CURB & GUTTER CASE A-2 PER CITY OF CARSON STD. DWG. NO. 108.
- CONSTRUCT FULL WIDTH SIDEWALK CASE 2 PER CITY OF CARSON STD. DWG. NO. 115 AND 117.
- CONSTRUCT RESIDENTIAL DRIVEWAY W=13' CASE 2 PER CITY OF CARSON STD. DWG. NO. 110.
- REMOVE AND DISPOSE OF EXISTING AC PAVEMENT AND BASE TO EXPOSE SUBGRADE SOIL (+/- 17" TOTAL).
- REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.
- REMOVE AND DISPOSE OF EXISTING SIDEWALK PANEL AT EXPANSION JOINT LINE.
- REMOVE AND DISPOSE OF EXISTING PCC DRIVEWAY.
- REMOVE AND DISPOSE OF EXISTING AC PAVEMENT AND REQUIRED BASE (VARIES, MAX 0.63'). CONSTRUCT 0.33" AC.
- SAWCUT EXISTING SIDEWALK PCC AT EXPANSION JOINT LINE.
- SAWCUT EXISTING PAVEMENT
- PROTECT IN PLACE (ITEM PER PLAN)
- INSTALL SLURRY SEAL

LEGEND:

- REMOVE EXISTING AC AND BASE (VARIES, MAX 0.63') AND CONSTRUCT 0.33" AC
- CONSTRUCT 5" AC OVER 12" AB.
- REMOVE EXISTING AC AND BASE
- GRIND AND OVERLAY
- CONSTRUCT CONCRETE SIDEWALK
- INSTALL SLURRY SEAL
- FLOWLINE
- SAWCUT

LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	N85° 55' 02"E	13.00
L2	N85° 55' 02"E	4.00
L3	N85° 55' 02"E	4.00
L4	S04° 04' 58"E	4.00
L5	N04° 04' 58"W	3.50
L6	S04° 04' 58"E	7.50
L7	S30° 49' 09"W	19.37
L8	S29° 14' 12"W	15.26
L9	S29° 15' 32"W	7.37
L10	S24° 54' 49"W	4.93
L11	S56° 56' 57"E	10.90
L12	S21° 08' 11"E	3.29
L13	S75° 20' 54"E	4.23
L14	S85° 55' 02"W	12.00

LINE TABLE		
LINE #	DIRECTION	LENGTH
L15	S85° 55' 02"W	4.00
L16	S85° 55' 02"W	4.00
L17	N04° 04' 58"W	3.49
L18	S04° 04' 58"E	4.00
L19	S14° 10' 01"W	3.97
L20	N83° 50' 04"E	4.02
L21	N14° 11' 59"E	3.81
L22	S73° 34' 28"E	11.45
L23	N14° 10' 01"E	8.03
L24	N36° 25' 11"E	10.03
L25	N09° 08' 28"E	18.73
L26	S15° 51' 37"E	10.83
L27	N04° 04' 58"W	7.50
L190	N85° 55' 02"E	4.00



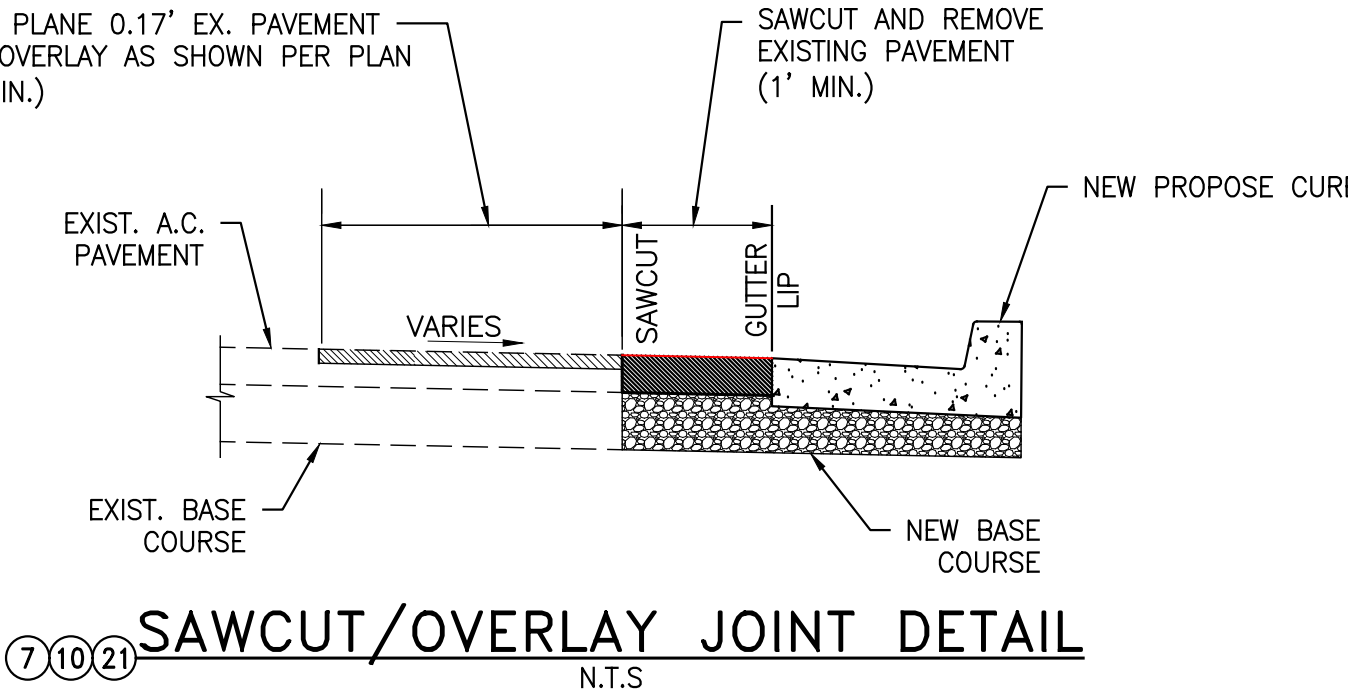
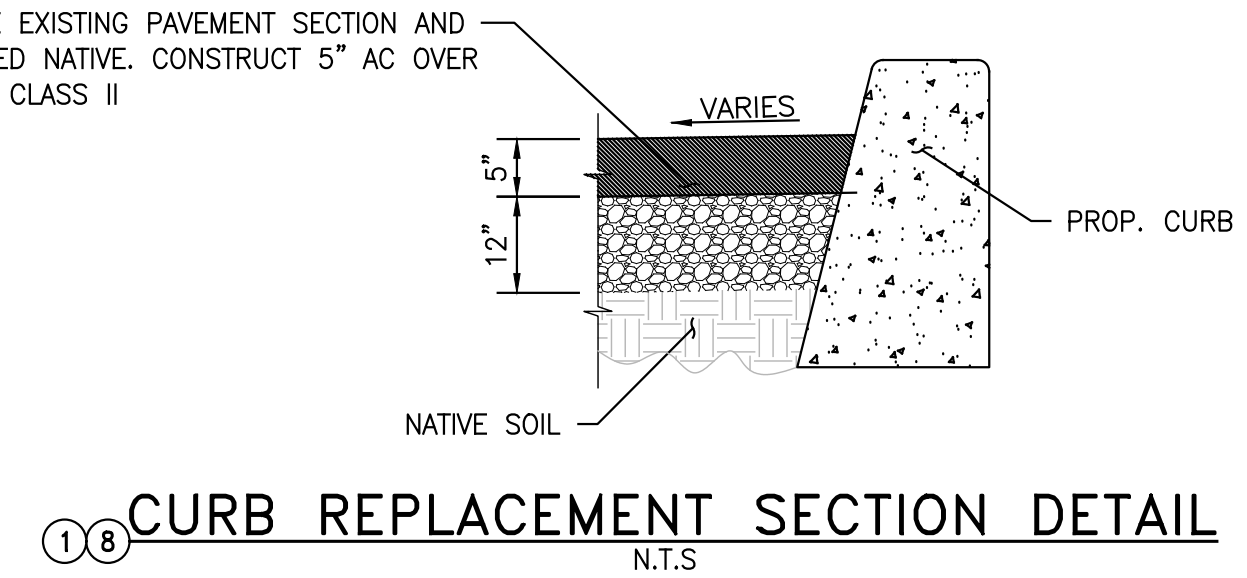
ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAV STREET
RIVERSIDE, CA 92506
PH. (951) 686-1070
FAX (951) 788-1256

PREPARED UNDER THE SUPERVISION OF: **NICHOLAS R. LOWE**

DESIGNED BY: **NACH** CHECKED BY: **NRL**
R.C.E. NO.: 87666

DRAFT

DATE:



REVISIONS				CITY OF CARSON		
NO	DESCRIPTION	APPROVE	DATE			
				ENGINEERING SERVICES DIVISION		
				STREET IMPROVEMENTS WALNUT AVENUE STREET AYALON BLVD. TO BILLINGS DR. DRIVEWAY DETAIL		
				PROJECT NO. 23-0191	SHEET 2 OF 6	PLAN NO.

NOT FOR CONSTRUCTION

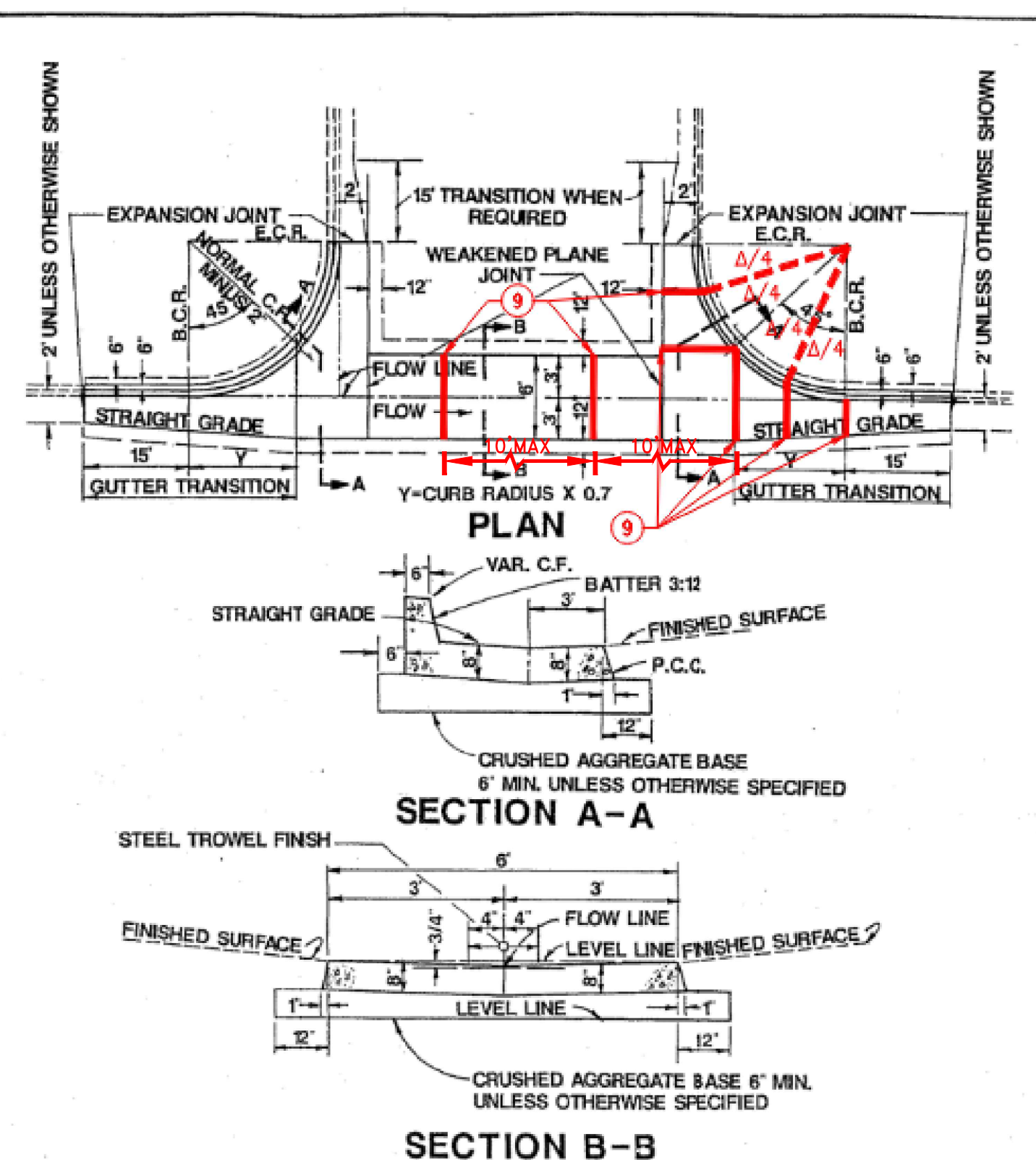
WALNUT STREET
CURB RAMP AND CROSS GUTTER CONSTRUCTION
DETAIL No. 1
1"=10' SCALE

REVIEWED	SUBMITTED	APPROVED	DATE:
John Merrill, PE, TE – City Traffic Engineer	Kenneth Young, PE – Senior Civil Engineer	Gilbert Marquez, PE – City Engineer	DATE:

WALNUT STREET

CURB RAMP AND CROSS GUTTER CONSTRUCTION
DETAIL No. 2

1"=10' SCALE



LINE TABLE		
LINE #	DIRECTION	LENGTH
L28	S89° 59' 50"E	3.88
L29	S00° 00' 10"W	6.33
L30	S00° 00' 10"W	3.23
L31	N71° 34' 58"W	9.32
L32	N71° 34' 58"W	3.06
L33	N49° 04' 58"W	5.89
L34	N54° 07' 03"E	11.19
L35	N49° 04' 58"W	5.10
L36	S27° 43' 01"W	11.19
L37	S40° 55' 02"W	5.00
L38	N49° 04' 58"W	5.13
L39	N49° 04' 58"W	5.13
L40	N26° 34' 58"W	9.78
L41	S00° 04' 58"E	8.11
L42	S04° 04' 58"E	7.59
L43	N04° 04' 58"W	8.20
L44	N04° 04' 58"W	8.20
L45	S85° 55' 02"W	4.93
L46	N87° 59' 06"E	26.48
L47	N85° 55' 02"E	57.14

LINE TABLE		
LINE #	DIRECTION	LENGTH
L48	N84° 33' 16"E	39.51
L49	S85° 55' 02"W	15.00
L50	N04° 04' 58"W	8.35
L51	S02° 29' 37"E	8.46
L52	S89° 03' 53"W	3.83
L53	N60° 44' 10"W	11.12
L54	N40° 55' 02"E	4.82
L55	N40° 55' 02"E	4.42
L56	N44° 32' 20"W	5.02
L57	N40° 55' 02"E	4.17
L58	N40° 55' 02"E	4.17
L59	S33° 08' 37"E	9.36
L60	S21° 44' 07"W	9.36
L61	N63° 25' 02"E	8.62
L62	N63° 25' 02"E	1.19
L63	N84° 47' 57"E	39.51
L64	N85° 55' 02"E	57.77
L65	N87° 06' 05"E	39.51
L66	S04° 04' 58"E	8.47
L67	N04° 04' 58"W	7.80

LINE TABLE		
LINE #	DIRECTION	LENGTH
L68	S18° 25' 02"W	8.59
L69	N39° 03' 39"W	11.06
L70	S40° 55' 02"W	4.50
L71	S40° 55' 02"W	4.21
L72	N49° 04' 58"W	5.00
L73	S40° 55' 02"W	4.61
L74	S40° 55' 02"W	4.50
L75	S59° 06' 17"E	11.06
L76	S63° 25' 02"W	0.53
L77	S63° 25' 02"W	9.64
L78	N00° 35' 54"E	13.32
L79	S85° 55' 02"W	15.00
L80	N89° 52' 14"E	3.88
L81	N89° 46' 14"E	3.97
L82	N00° 04' 29"W	12.65
L83	S49° 04' 58"E	4.87
L84	S49° 04' 58"E	5.45
L85	N04° 04' 58"W	7.73
L86	N04° 04' 58"W	8.11
L87	N85° 55' 02"E	15.00

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C1	71°35'08"	5.00	6.25
C2	22°30'00"	35.00	13.74
C3	18°24'14"	35.00	11.24
C4	8°11'32"	35.00	5.00
C5	18°24'14"	35.00	11.24
C6	22°30'00"	35.00	13.74
C7	25°49'04"	35.00	15.77
C8	15°05'10"	35.00	9.22
C9	8°11'32"	35.00	5.00
C10	18°24'14"	35.00	11.24
C11	22°30'00"	35.00	13.74
C12	65°54'39"	5.00	5.75
C13	22°30'00"	35.00	13.74
C14	62°49'08"	5.00	5.48
C15	18°24'14"	35.00	11.24
C16	8°11'32"	35.00	5.00
C17	18°24'14"	35.00	11.24
C18	22°30'00"	35.00	13.74
C19	25°00'00"	35.00	15.27
C20	15°54'14"	35.00	9.72

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C21	8°11'32"	35.00	5.00
C22	15°54'14"	35.00	9.72
C23	25°00'00"	35.00	15.27
C24	68°59'03"	5.00	6.02

LINE TABLE		
LINE #	DIRECTION	LENGTH
L88	N69° 04' 58"W	8.59
L89	N69° 04' 58"W	2.19
L90	N04° 49' 38"W	4.49
L91	S49° 04' 58"E	3.79
L92	S49° 04' 58"E	4.12
L93	N34° 21' 31"E	5.03
L94	S60° 48' 06"W	10.07
L95	N24° 09' 58"E	9.89
L96	N29° 04' 58"W	8.79
L97	S89° 59' 50"E	4.20

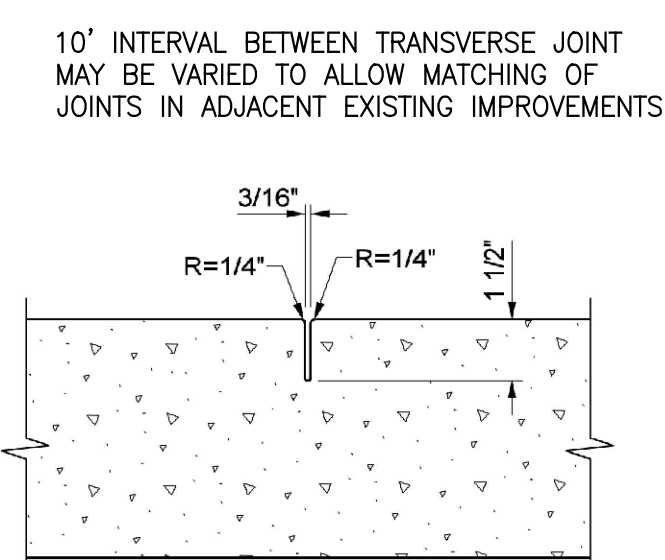
CONSTRUCTION NOTES

- (1) CONSTRUCT 5" AC OVER 12" CLASS II AGGREGATE BASE. INSTALL CALTRANS CLASS B1 GEOTEXTILE BETWEEN SUBGRADE AND BASE. CONTRACTOR SHALL CONSTRUCT VARIABLE THICKNESS AC TO MATCH SURFACE ELEVATION OF ADJACENT PAVEMENT.
- (2) CONSTRUCT CROSS GUTTER PER MODIFIED CITY OF CARSON STD. DWG. NO. 113 ON SHEET 3.
- (3) CONSTRUCT 8" CURB & GUTTER CASE A-2 PER CITY OF CARSON STD. DWG. NO. 108.
- (4) CONSTRUCT FULL WIDTH SIDEWALK CASE 2 PER CITY OF CARSON STD. DWG. NO. 115 AND 117.
- (5) CONSTRUCT CASE B ADA ACCESS RAMP PER CALTRANS STD. NO. A88A.
- (7) CONSTRUCT AC OVERLAY 0.17" MIN.
- (9) CONSTRUCT WEAKENED PLANE JOINT(S) PER WEAKENED PLANE JOINT DETAIL ON SHEET 3.
- (10) GRIND EXISTING PAVEMENT 0.17" MIN.
- (11) REMOVE AND DISPOSE OF EXISTING AC PAVEMENT AND BASE TO EXPOSE SUBGRADE SOIL (+/- 17" TOTAL).
- (12) REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.
- (13) REMOVE AND DISPOSE OF EXISTING PCC RAMP.
- (14) REMOVE AND DISPOSE OF EXISTING SIDEWALK PANEL AT EXPANSION JOINT LINE.
- (15) REMOVE AND DISPOSE OF EXISTING LANDSCAPE.
- (17) REMOVE AND DISPOSE OF EXISTING PCC SPANDREL AND CROSS GUTTER.
- (19) REMOVE AND RELOCATE OF EXISTING FIRE HYDRANT BY GOLDEN STATE WATER.
- (20) SAWCUT EXISTING SIDEWALK PCC AT EXPANSION JOINT LINE.
- (21) SAWCUT EXISTING PAVEMENT
- (22) PROTECT IN PLACE (ITEM PER PLAN)
- (24) CONTRACTOR SHALL COORDINATE WITH SCE OR OTHER UTILITY OWNER TO REANCHOR GUY WIRE

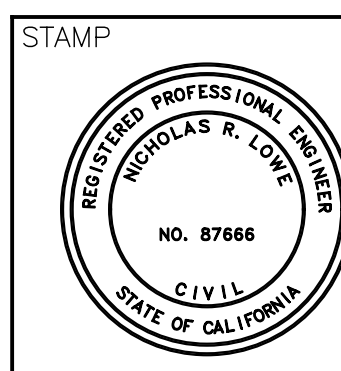
NOT FOR CONSTRUCTION

CITY OF CARSON		
REVISIONS	CROSS GUTTER	DRAWN BY <i>Edward</i>
		DATE APPROVED <i>2/2/87</i>
	RECOMMENDED: <i>N. Fisher</i>	APPROVED: <i>Harold L. Williams</i>
	DIVISION ENGINEER	DIRECTOR OF PUBLIC WORKS
		NO. 113

MODIFIED CROSS GUTTER



9 WEAKENED PLANE JOINT DETAIL



ALBERT A.
WEBB
ASSOCIATES

PREPARED UNDER THE SUPERVISION OF: DESIGNED BY: NAA CHECKED BY: NRI
RCE NO. 87666

DRAFT

NICHOLAS R. LOWE

ENGINEERING CONSULTANTS
3788 McCRAy STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256

DESIGNED BY: NAA CHECKED BY: NRL
R.C.F. NO. 87666

∴ 0.000

DATE: _____

BENCHMARK:

NO. 43-H ELEV. 53.9' (NAVD 88)
DATE ADJ. _____ QUAD. _____

OUT SPIKE NO. 43 IN THE TOP

CUT SPIKE NO. 43-H, IN THE TOP OF THE CONCRETE FOOTING FOR THE SOUTHERLY LEG OF THE POWER TRANSMISSION TOWER 1339, 0.6 OF A MILE NORTHERLY FROM VICTORIA STREET, 0.7 OF A MILE SOUTHERLY FROM ALONDRA BOULEVARD.

[illegible]

CITY OF CARSON

ENGINEERING SERVICES DIVISION

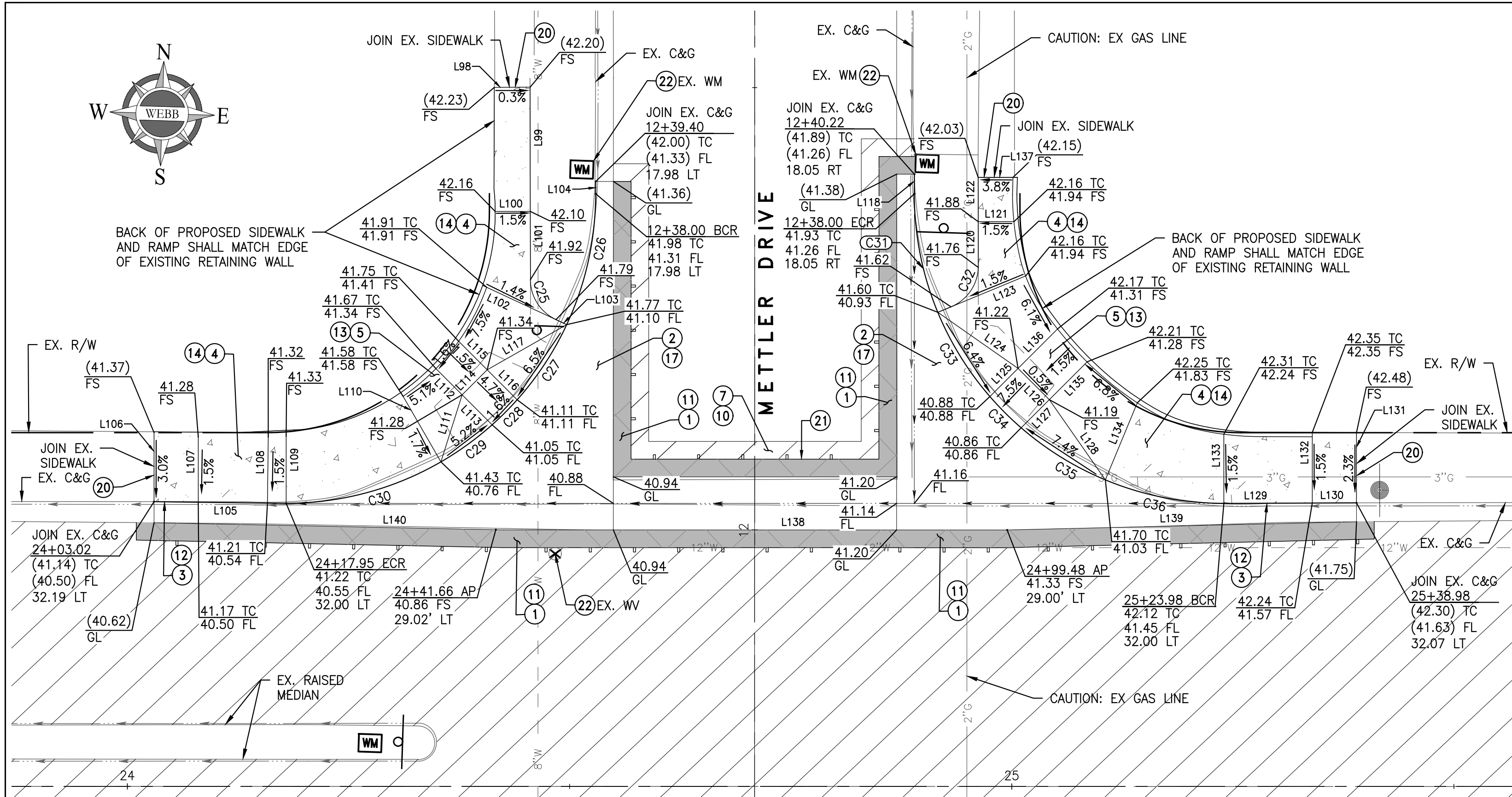
STREET IMPROVEMENTS
WALNUT AVENUE STREET

AVALON BLVD. TO BILLINGS DR.
CURB RAMP AND CROSS GUTTER DETAIL

PROJECT NO.
23-0191

SHEET 3 OF 6

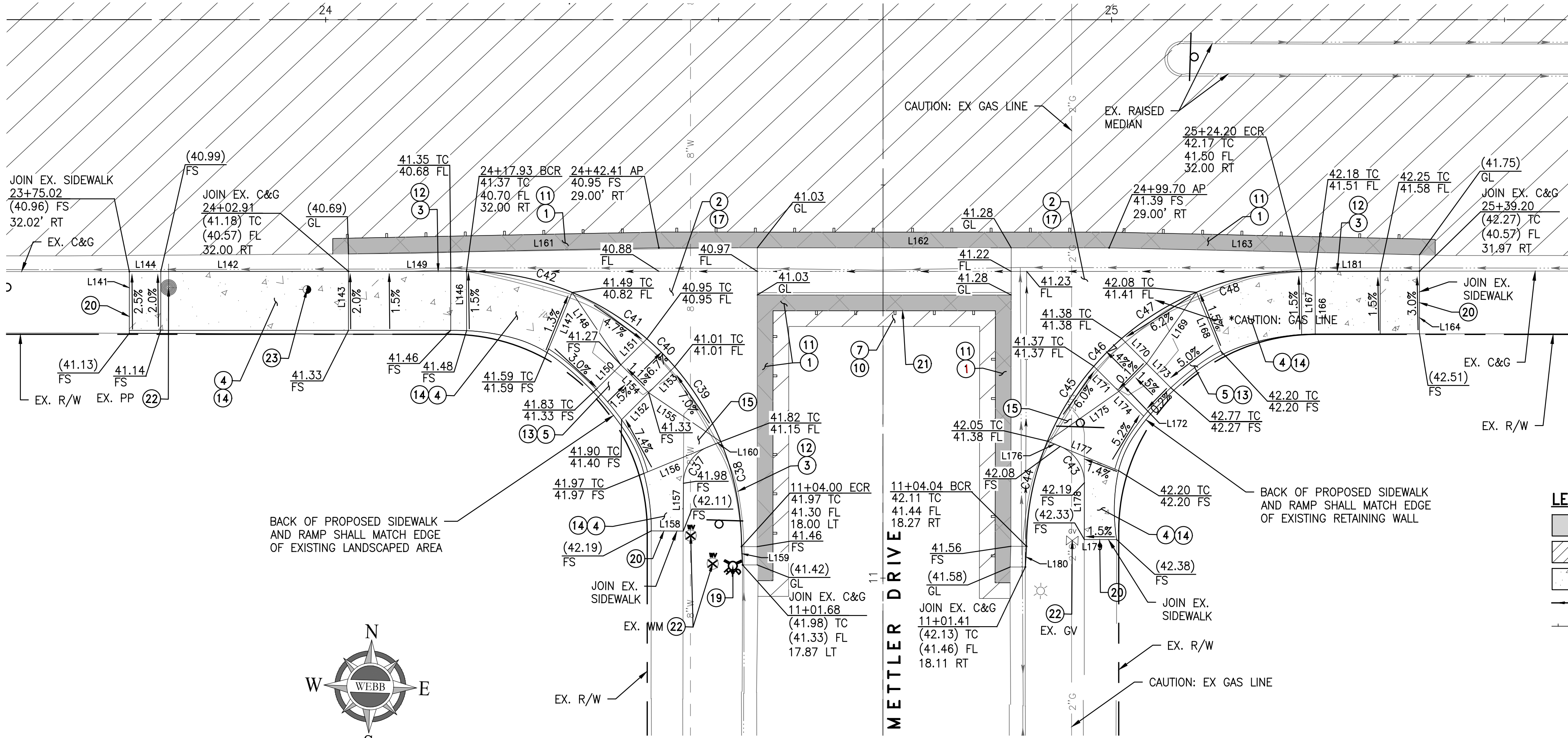
PLAN NO.



WALNUT STREET
CURB RAMP AND CROSS GUTTERCONSTRUCTION

DETAIL No. 3
1"=10' SCALE

WALNUT STREET



WALNUT STREET
CURB RAMP AND CROSS GUTTERCONSTRUCTION

DETAIL No. 4
1"=10' SCALE

REVIEWED	SUBMITTED	APPROVED
John Merrill, PE, TE - City Traffic Engineer	Kenneth Young, PE - Senior Civil Engineer	Gilbert Marquez, PE - City Engineer
DATE:	DATE:	DATE:

LINE TABLE		
LINE #	DIRECTION	LENGTH
L98	S87° 54' 18"W	4.04
L99	S01° 56' 17"E	14.04
L100	N88° 03' 43"E	3.97
L101	S01° 56' 17"E	7.71
L102	N66° 49' 32"W	9.15
L103	N66° 49' 32"W	1.34
L104	S01° 49' 32"E	1.40
L105	N88° 54' 55"E	14.94
L106	N01° 49' 32"W	7.89
L107	S01° 49' 32"E	7.87
L108	S01° 05' 05"E	8.13
L109	S01° 49' 32"E	8.26
L110	N31° 49' 32"W	9.06
L111	S15° 44' 16"W	7.95
L112	N46° 49' 32"W	4.19
L113	N46° 49' 32"W	4.80
L114	N43° 10' 28"E	4.00
L115	N46° 49' 32"W	4.56
L116	N46° 49' 32"W	4.80
L117	N58° 34' 29"E	10.34
L118	N01° 49' 32"W	2.22

LINE TABLE		
LINE #	DIRECTION	LENGTH
L120	N01° 55' 19"W	5.00
L121	N88° 10' 28"E	4.04
L122	N01° 55' 19"W	5.00
L123	N65° 40' 28"E	9.12
L124	N56° 50' 51"W	11.06
L125	N43° 10' 28"E	4.50
L126	N46° 49' 32"W	5.00
L127	N43° 10' 28"E	4.50
L128	S36° 48' 13"E	11.06
L129	N87° 54' 50"E	10.00
L130	N87° 54' 50"E	5.00
L131	S01° 49' 32"E	7.95
L132	S01° 49' 32"E	7.99
L133	S01° 49' 32"E	7.82
L134	N20° 40' 28"E	9.43
L135	N43° 10' 28"E	6.04
L136	N43° 10' 28"E	6.31
L137	N88° 10' 28"E	4.43
L138	N88° 10' 28"E	57.03
L139	N86° 49' 57"E	39.51
L140	N89° 20' 31"E	39.45

LINE TABLE		
LINE #	DIRECTION	LENGTH
L141	N01° 49' 32"W	7.50
L142	N88° 10' 28"E	23.88
L143	N01° 49' 32"W	7.50
L144	N88° 10' 28"E	4.00
L146	N01° 56' 22"W	7.53
L147	S20° 47' 00"W	8.29
L148	N35° 50' 22"W	11.10
L149	N88° 10' 28"E	15.02
L150	S43° 17' 00"W	4.43
L151	S43° 17' 00"W	4.68
L152	S43° 17' 00"W	4.85
L153	S43° 17' 00"W	4.68
L154	N46° 43' 00"W	5.00
L155	S57° 38' 48"E	11.10
L156	S65° 47' 00"W	8.79
L157	N01° 32' 23"W	6.08
L158	N88° 27' 37"E	4.07
L159	S05° 00' 51"E	2.33
L160	S65° 47' 00"W	1.77
L161	N87° 02' 18"E	39.51
L162	N88° 10' 28"E	57.29

LINE TABLE		
LINE #	DIRECTION	LENGTH
L163	N89° 26' 48"E	39.51
L164	S01° 49' 32"E	7.97
L166	N01° 56' 48"W	7.95
L167	N01° 49' 32"W	8.01
L168	S24° 17' 38"E	8.58
L169	N33° 11' 03"E	11.06
L170	S46° 47' 38"E	4.50
L171	S46° 47' 38"E	4.50
L172	N43° 12' 22"E	5.00
L173	S46° 47' 38"E	4.34
L174	S46° 47' 38"E	4.47
L175	S53° 13' 41"W	11.06
L176	S69° 17' 38"E	1.73
L177	S69° 17' 38"E	8.05
L178	N01° 47' 47"W	7.22
L179	S88° 12' 13"W	4.10
L180	S01° 39' 02"W	2.64
L181	N88° 03' 12"E	15.00

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C25	64°53'15"	5.00	5.66
C26	25°00'00"	35.00	15.27
C27	16°43'27"	35.00	10.22
C28	6°33'06"	35.00	4.00
C29	11°43'27"	35.00	7.16
C30	30°00'00"	35.00	18.33
C31	22°30'00"	35.00	13.74
C32	67°35'47"	5.00	5.90
C33	18°24'14"	35.00	11.24
C34	8°11'32"	35.00	5.00
C35	18°24'14"	35.00	11.24
C36	22°30'00"	35.00	13.74
C37	67°19'24"	5.00	5.88
C38	22°24'19"	35.00	13.69
C39	18°24'58"	35.00	11.25
C40	8°11'32"	35.00	5.00
C41	18°24'43"	35.00	11.25
C42	22°34'28"	35.00	13.79
C43	67°29'51"	5.00	5.89
C44	22°28'06"	35.00	13.73
C45	18°24'14"	35.00	11.24

CURVE TABLE			
CURVE #	DELTA	RADIUS	LENGTH
C46	8°11'32"	35.00	5.00
C47	18°24'14"	35.00	11.24
C48	22°28'06"	35.00	13.73

CONSTRUCTION NOTES

- CONSTRUCT 5" AC OVER 12" CLASS II AGGREGATE BASE. INSTALL CALTRANS CLASS B1 GEOTEXTILE BETWEEN SUBGRADE AND BASE. CONTRACTOR SHALL CONSTRUCT VARIABLE THICKNESS AC TO MATCH SURFACE ELEVATION OF ADJACENT PAVEMENT.
- CONSTRUCT CROSS GUTTER PER MODIFIED CITY OF CARSON STD. DWG. NO. 113 ON SHEET 3.
- CONSTRUCT 8" CURB & GUTTER CASE A-2 PER CITY OF CARSON STD. DWG. NO. 108.
- CONSTRUCT FULL WIDTH SIDEWALK CASE 2 PER CITY OF CARSON STD. DWG. NO. 115 AND 117.
- CONSTRUCT CASE B ADA ACCESS RAMP PER CALTRANS STD. NO. A88A.
- CONSTRUCT AC OVERLAY 0.17" MIN.
- GRIND EXISTING PAVEMENT 0.17" MIN.
- REMOVE AND DISPOSE OF EXISTING AC PAVEMENT AND BASE TO EXPOSE SUBGRADE SOIL (+/- 17" TOTAL).
- REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.
- REMOVE AND DISPOSE OF EXISTING PCC RAMP.
- REMOVE AND DISPOSE OF EXISTING SIDEWALK PANEL AT EXPANSION JOINT LINE.
- REMOVE AND DISPOSE OF EXISTING PCC SPANDREL AND CROSS GUTTER.
- SAWCUT EXISTING SIDEWALK PCC AT EXPANSION JOINT LINE.
- SAWCUT EXISTING PAVEMENT
- PROTECT IN PLACE (ITEM PER PLAN)

LEGEND:

- CONSTRUCT 5" AC OVER 12" AB.
- GRIND AND OVERLAY
- CONSTRUCT CONCRETE SIDEWALK
- FLOWLINE
- SAWCUT

REVISIONS			
NO	DESCRIPTION	APPROVE	DATE

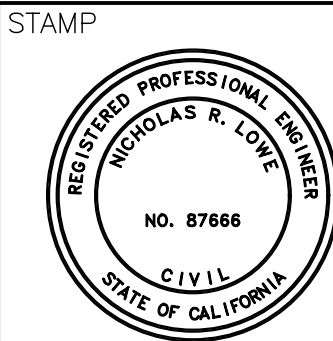
CITY OF CARSON

ENGINEERING SERVICES DIVISION

STREET IMPROVEMENTS
WALNUT AVENUE STREET

AYALON BLVD. TO BILLINGS DR.
CURB RAMP AND CROSS GUTTER DETAIL

PROJECT NO.	SHEET	PLAN NO.
23-0191	4 OF 6	



ALBERT A. WEBB ASSOCIATES
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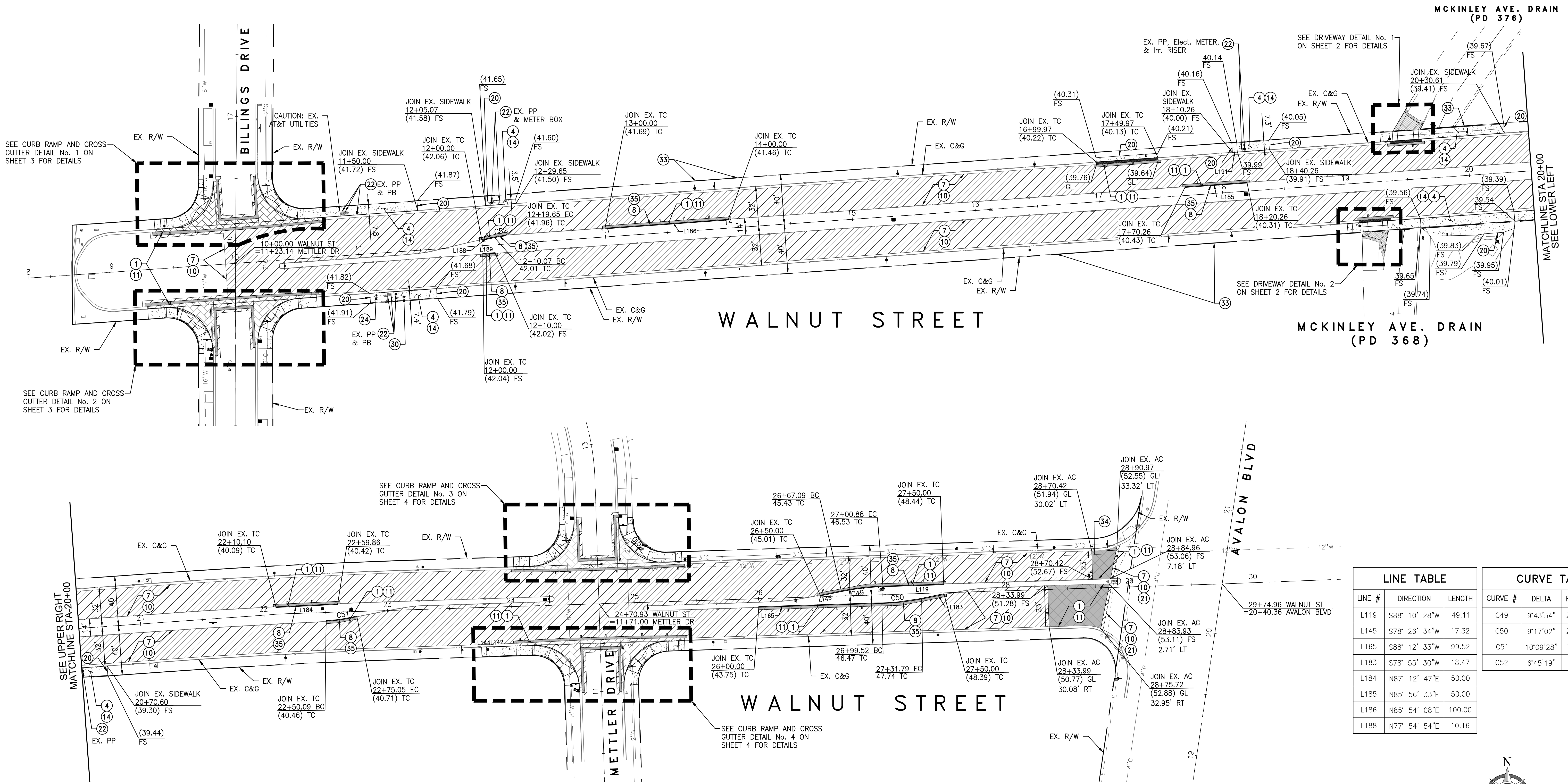
PREPARED UNDER THE SUPERVISION OF: NICHOLAS R. LOWE
DESIGNED BY: NAA
CHECKED BY: NAA
R.C.E. NO.: 87666
DATE:

DRAFT

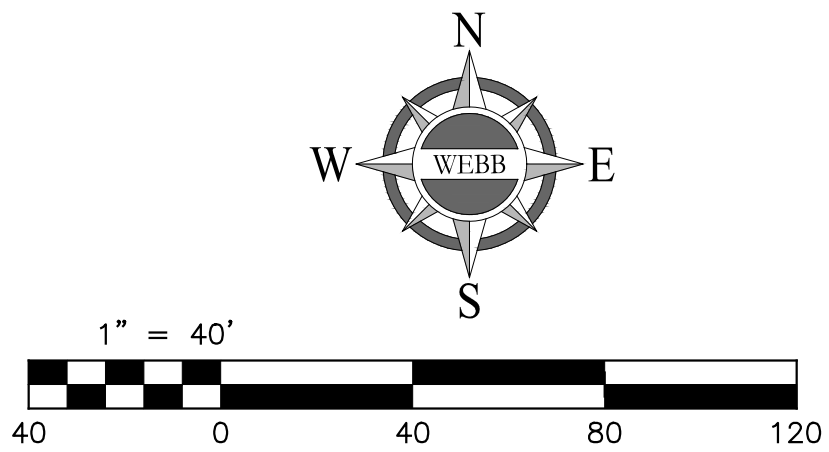
BENCHMARK:
NO. 43-H ELEV. 53.9' (NAVD 88)
DATE ADJ. QUAD.

CUT SPIKE NO. 43-H, IN THE TOP OF THE CONCRETE FOOTING FOR THE SOUTHERLY LEG OF THE POWER TRANSMISSION TOWER 1339, 0.6 OF A MILE NORTHERLY FROM VICTORIA STREET, 0.7 OF A MILE SOUTHERLY FROM ALONDA BOULEVARD.

NOT FOR CONSTRUCTION



LINE TABLE			CURVE TABLE			
LINE #	DIRECTION	LENGTH	CURVE #	DELTA	RADIUS	LENGTH
L119	S88° 10' 28"W	49.11	C49	9°43'54"	200.00	33.97
L145	S78° 26' 34"W	17.32	C50	9°17'02"	200.00	32.41
L165	S88° 12' 33"W	99.52	C51	10°09'28"	142.00	25.17
L183	S78° 55' 30"W	18.47	C52	6°45'19"	81.65	9.63
L184	N87° 12' 47"E	50.00				
L185	N85° 56' 33"E	50.00				
L186	N85° 54' 08"E	100.00				
L188	N77° 54' 54"E	10.16				



CONSTRUCTION NOTES

- 1 CONSTRUCT 5" AC OVER 12" CLASS II AGGREGATE BASE. INSTALL CALTRANS CLASS B1 GEOTEXTILE BETWEEN SUBGRADE AND BASE. CONTRACTOR SHALL CONSTRUCT VARIABLE THICKNESS AC TO MATCH SURFACE ELEVATION OF ADJACENT PAVEMENT.
- 4 CONSTRUCT FULL WIDTH SIDEWALK CASE 2 PER CITY OF CARSON STD. DWG. NO. 115 AND 117.
- 7 CONSTRUCT AC OVERLAY 0.17" MIN.
- 8 CONSTRUCT 6" CURB CASE B-1 PER CITY OF CARSON STD. DWG. NO. 108.
- 10 GRIND EXISTING PAVEMENT 0.17" MIN.
- 11 REMOVE AND DISPOSE OF EXISTING AC PAVEMENT AND BASE TO EXPOSE SUBGRADE SOIL (+/- 17" TOTAL).
- 14 REMOVE AND DISPOSE OF EXISTING SIDEWALK PANEL AT EXPANSION JOINT LINE.
- 20 SAWCUT EXISTING SIDEWALK PCC AT EXPANSION JOINT LINE.
- 21 SAWCUT EXISTING PAVEMENT

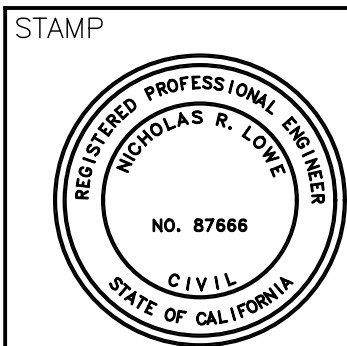
- 22 PROTECT IN PLACE (ITEM PER PLAN)
- 24 CONTRACTOR SHALL COORDINATE WITH SCE OR OTHER UTILITY OWNER TO REANCHOR GUY WIRE
- 30 ADJUST EXISTING MANHOLE TO FINISHED GRADE.
- 33 CONTRACTOR SHALL TRIM EXISTING VINES TO PROVIDE ADA CLEARANCE FOR SIDEWALK. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER PRIOR TO WORK.
- 34 ADJUST EXISTING WATER VALVE TO FINISHED GRADE.
- 35 REMOVE AND DISPOSE OF EXISTING PCC CURB.

LEGEND:

- CONSTRUCT 5" AC OVER 12" AB.
- REMOVE EXISTING AC AND BASE
- GRIND AND OVERLAY
- FLOWLINE
- SAWCUT

NOTE:

STATION CALL OUTS ARE APPROXIMATE.
EXACT REMOVAL AND CONSTRUCTION ITEM
LIMITS SHALL BE AT EXPANSION JOINTS
AND CITY DIRECTION.



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PH. (951) 686-1070
FAX (951) 788-1256

PREPARED UNDER THE SUPERVISION OF:
DRAFT
NICHOLAS R. LOWE

DESIGNED BY: NAA
CHECKED BY: NRL
R.C.E. NO.: 87666
DATE:

BENCHMARK:
NO. 43-H ELEV. 53.9' (NAVD 88)
DATE ADJ. _____ QUAD. _____
CUT SPIKE NO. 43-H, IN THE TOP OF THE CONCRETE FOOTING FOR THE SOUTHERLY LEG OF THE POWER TRANSMISSION TOWER 1339, 0.6 OF A MILE NORTHERLY FROM VICTORIA STREET, 0.7 OF A MILE SOUTHERLY FROM ALONDRA BOULEVARD.

REVISIONS			
NO	DESCRIPTION	APPROVE	DATE

CITY OF CARSON

ENGINEERING SERVICES DIVISION

STREET IMPROVEMENTS
WALNUT AVENUE STREET
AVALON BLVD. TO BILLINGS DR.
STREET IMPROVEMENT

PROJECT NO. 23-0191
SHEET 5 OF 6
PLAN NO.

NOT FOR CONSTRUCTION

SIGNING AND STRIPING CONSTRUCTION NOTES:

- PROTECT EXISTING STRIPING, MARKING, EQUIPMENT OR SIGN IN PLACE.
- WET-SANDBLAST CONFLICTING STRIPING AND REMOVE RPMS AS SHOWN ON PLAN.
- PAINT 8" SOLID WHITE CHANNELIZING LINE PER CALTRANS STANDARD PLAN NO. RSP A20D, DETAIL 38.
- INSTALL THERMOPLASTIC WHITE ARROW MARKING MARKINGS PER CALTRANS STANDARD PLAN NO. A24A.
- INSTALL THERMOPLASTIC WORD PAVEMENT LEGEND PER CALTRANS STANDARD PLANS, PLAN NO. A24D.
- INSTALL THERMOPLASTIC 12" BASIC CROSSWALK MARKING PER CALTRANS STANDARD PLAN NO. A24F.
- INSTALL THERMOPLASTIC 12" LIMIT LINE PAVEMENT MARKING PER CALTRANS STANDARD PLAN NO. A24G.
- REFRESH RED CURB AS SHOWN ON PLAN.
- INSTALL NEW SIGN (STANDARD SIZE OR AS INDICATED) PER CA-MUTCD.
- RELOCATE EXISTING SIGN AS SHOWN.
- FURNISH AND INSTALL TYPE E LOOP DETECTOR LOOP PER CALTRANS STANDARD PLAN NO. ES-5B AND LOOP DETECTOR PLACEMENT DETAIL.
- PAINT 6" SOLID WHITE BIKE LANE LINE PER CALTRANS STANDARD PLAN NO. RSP A20D, DETAIL 39.
- PAINT 6" DASHED WHITE BIKE LANE LINE PER CALTRANS STANDARD PLAN NO. RSP A20D, DETAIL 39A.
- PAINT 6" SOLID WHITE RIGHT EDGELINE LANE PER CALTRANS STANDARD PLAN NO. A20B, DETAIL 27B.
- APPLY THERMOPLASTIC BIKE LANE SYMBOL WITH PERSON AND BIKE LANE ARROW PAVEMENT MARKINGS PER CALTRANS STD. PLAN A24A AND A24C.
- PAINT 8" SOLID WHITE CHEVRON 24' C-C.
- REMOVE EXISTING SIGN AS SHOWN ON PLAN.
- APPLY TYPE RY RED-YELLOW RETROREFLECTIVE MARKER PER CALTRANS STANDARD PLAN NO. A20B, DETAIL 26.
- REPLACE STREET NAME SIGNS PER CITY OF CARSON STANDARD PLAN NO. 200.
- FURNISH AND INSTALL TYPE D LOOP DETECTOR LOOP PER CALTRANS STANDARD PLAN NO. ES-5B AND LOOP DETECTOR PLACEMENT DETAIL.
- FURNISH AND INSTALL BICYCLE DETECTOR LOOP PER CITY OF LOS ANGELES STANDARD DRAWING NO. S-70.1D.
- PAINT 8" SOLID WHITE LANE DROP AT INTERSECTION PER CALTRANS STANDARD PLAN NO. A20C, DETAIL 37B.

BILLINGS DRIVE

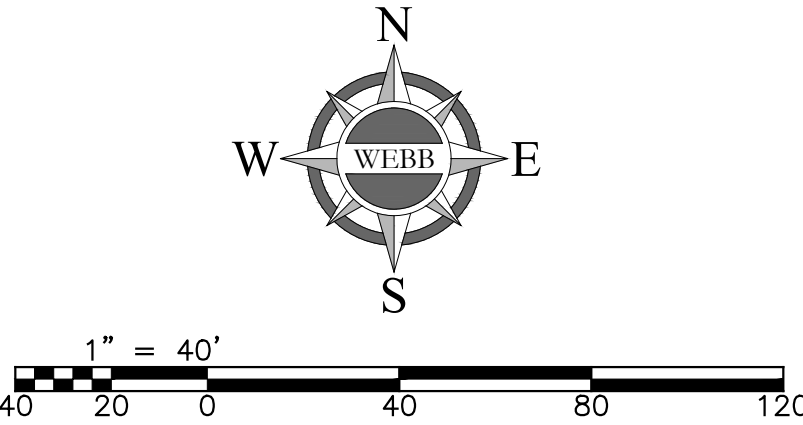
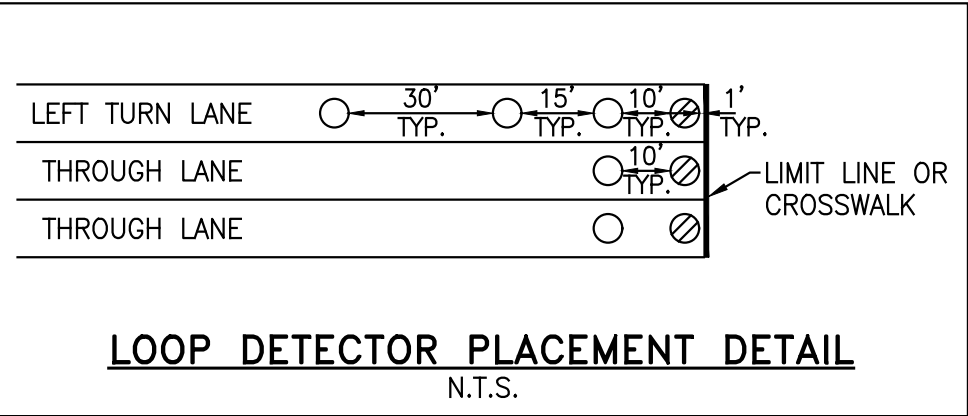
WALNUT STREET
[35 MPH]

AVALON BOULEVARD

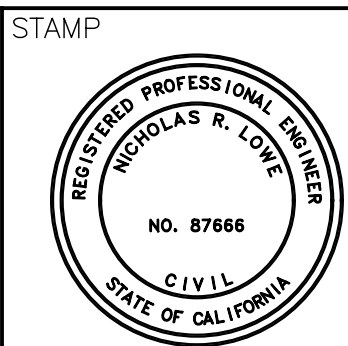
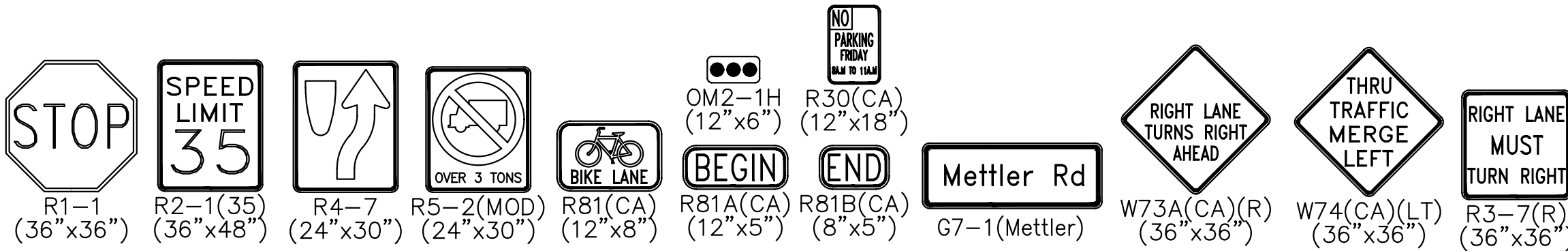
WALNUT STREET
[35 MPH]

METTLER DRIVE

WALNUT STREET
[35 MPH]



SIGN LEGEND



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REVISIONS			
NO.	DESCRIPTION	APPROVE	DATE

CITY OF CARSON

ENGINEERING SERVICES DIVISION

SIGNING AND STRIPING PLAN
WALNUT AVENUE STREET
AVALON BLVD. TO BILLINGS DR.

PROJECT NO.
23-0191

SHEET
6 OF 6

PLAN NO.