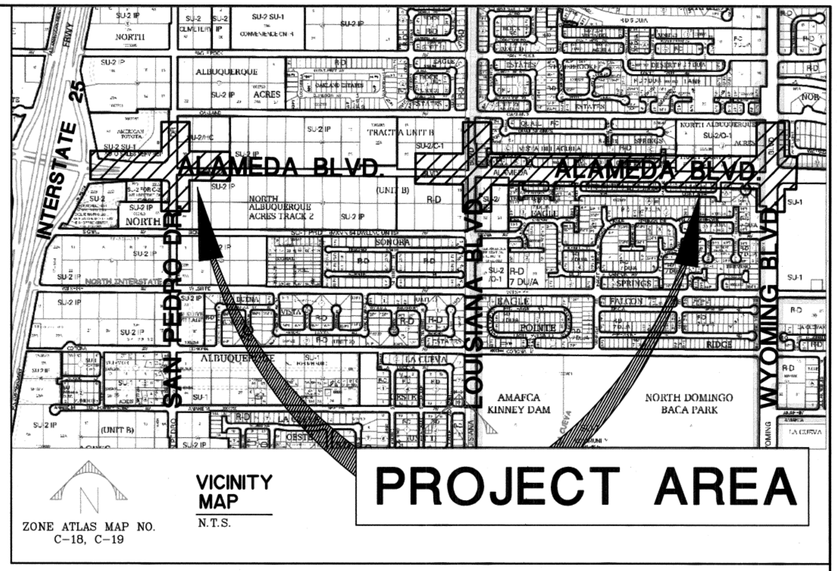
I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE INDICATED RECORD DRAWINGS ARE BASED UPON INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR IN THE FORM OF RED-LINED CONSTRUCTION DRAWINGS. THE TRANSFER OF INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. HOWEVER, I HAVE NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THE INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS. ALL INFORMATION INCLUDING VERTICAL AND HORIZONTAL DIMENSIONS SHOULD BE FIELD VERIFIED PRIOR TO USE ON FUTURE PROJECTS.

Douglas L. Andrews 01-07-2015
NAME DATE



N

VICINITY MAP
N.T.S.

ZONE ATLAS MAP NO.
C-18, C-19

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

PLANS FOR CONSTRUCTION
ALAMEDA BLVD. WIDENING

CITY OF ALBUQUERQUE PROJECT NO. 7663.91

UTILITY COMPANY CONTACTS

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MCI WORLDCOM
ANDY DARNELL
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6001 Midway Park NE
Albuquerque, New Mexico 87109
(505) 346-4470

CALL BEFORE YOU DIG!
STATEWIDE
1-800-321-ALERT
DATE
ALBUQUERQUE
260-1990

RECORD DRAWING INFO	
CITY INSPECTOR	RICHARD ZAMORA
CITY PROJECT MANAGER	JAME EISENBERG
CONTRACTOR	RMCI
SURVEYOR	CARTESIAN SURVEYS INC.
CONST. PROJECT COORDIANTOR	ADAM BERGSTRASSER
LETTER OF ACCEPTANCE DATE	6/8/2014
CONSTRUCTION ENGINEER	BILL WOODWARD

APPROVAL OF RECORD DRAWINGS

ABCWUA ENGINEER **DATE**

APPROVED AS RECORD DRAWINGS
DMD/CSD
CITY CONSTRUCTION ENGINEER
DATE: 1/14/15

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

Douglas L. Andrews
NEW MEXICO 11771 REGISTERED PROFESSIONAL ENGINEER
12-09-2012

APPROVED	ENGINEER	DATE
DRC Chairman		1-11-13
Transportation	Roland Gutierrez	12/12/12
Water/Wastewater		1-10-13
Hydrology		1/8/13
C I P		
Constr. Mngmt.		
Constr. Coord.		

APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE 1-14-13

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	1-1	1	84

Alameda Blvd. Widening – Base Bid

Sheet No.	Drawing No.	Sheet Title
GENERAL SHEETS		
1	1–1	TITLE SHEET & VICINITY MAP
2	1–2	INDEX OF SHEETS
3	1–3	GENERAL NOTES
4	1–4	LOCAL SURVEY CONTROL AND CONSTRUCTION BASELINE INFORMATION
REMOVAL SHEETS		
5	2–1	OVERALL REMOVAL PLAN
6	2–2	ALAMEDA REMOVAL SHEET – BOP STA 1+92.78 TO STA 7+00
7	2–3	ALAMEDA REMOVAL SHEET – STA 7+00 TO STA 25+00
8	2–4	ALAMEDA REMOVAL SHEET – STA 25+00 TO STA 43+00
9	2–5	ALAMEDA REMOVAL SHEET – STA 52+00 TO STA 64+60.64 EOP
10	2–6	SAN PEDRO REMOVAL SHEET BOP STA 5+00 TO STA 18+11.05 EOP
11	2–7	LOUISIANA REMOVAL SHEET BOP STA 5+00 TO STA 18+98.86
12	2–8	WYOMING REMOVAL SHEET BOP STA 5+00 TO STA 14+00 EOP
13	2–9	AMERICAN TOYOTA & BUSINESS ENTRANCE REMOVAL SHEET
ROADWAY SHEETS		
14	3–1	OVERALL ROADWAY IMPROVEMENT PLAN
15	3–2	ALAMEDA ROADWAY PLAN & PROFILE BOP STA 1+92.78 TO STA 7+00
16	3–3	ALAMEDA ROADWAY PLAN & PROFILE STA 7+00 TO STA 16+00
17	3–4	ALAMEDA ROADWAY PLAN & PROFILE STA 16+00 TO STA 25+00
18	3–5	ALAMEDA ROADWAY PLAN & PROFILE STA 25+00 TO STA 34+00
19	3–6	ALAMEDA ROADWAY PLAN & PROFILE STA 34+00 TO STA 43+00
20	3–7	ALAMEDA ROADWAY PLAN & PROFILE STA 52+00 TO STA 61+00
21	3–8	ALAMEDA ROADWAY PLAN & PROFILE STA 61+00 TO STA 64+60.64 EOP
22	3–9	SAN PEDRO ROADWAY PLAN & PROFILE STA 5+00 TO STA 14+00
23	3–10	SAN PEDRO ROADWAY PLAN & PROFILE STA 14+00 TO STA 18+11.05
24	3–11	LOUISIANA ROADWAY PLAN & PROFILE STA 5+00 TO STA 14+00
25	3–12	LOUISIANA ROADWAY PLAN & PROFILE STA 14+00 TO STA 18+98.86
26	3–13	WYOMING ROADWAY PLAN & PROFILE STA 5+00 TO STA 14+00
27	3–14	AMERICAN TOYOTA & BUSINESS ENTRANCE PLAN & PROFILE
28	3–15	INTERSECTION LAYOUT PLAN – ALAMEDA BLVD. & SAN PEDRO DRIVE
29	3–16	INTERSECTION LAYOUT PLAN – ALAMEDA BLVD. & LOUISIANA BLVD.
30	3–17	TYPICAL SECTIONS & PAVING DETAILS
31	3–18	TYPICAL SECTIONS & PAVING DETAILS
32	3–19	PRIVATE DRIVEWAY DETAILS
33	3–20	STANDARD DETAILS
34	3–21	AMERICAN TOYOTA PLAN
STORM DRAIN SHEETS		
35	4–1	OVERALL STORM DRAIN IMPROVEMENT PLAN
36	4–2	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 7+00 TO STA 16+00
37	4–3	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 25+00 TO STA 34+00
38	4–4	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 34+00 TO STA 40+00
39	4–5	SAN PEDRO STORM DRAIN PLAN AND PROFILE STA 5+00 TO STA 14+00
40	4–6	LOUISIANA STORM DRAIN PLAN AND PROFILE STA 6+00 TO STA 15+00
41	4–7	SIGNAL WATERLINE RELOCATION
42	4–8	LATERALS
43	4–9	LATERALS
TRAFFIC SHEETS		
44	7–1	TRAFFIC SIGNAL GENERAL NOTES
45	7–2	TRAFFIC SIGNAL QUANTITIES
46	7–3	SAN PEDRO ALAMEDA INTERSECTION SIGNAL LAYOUT
47	7–4	SAN PEDRO ALAMEDA INTERSECTION VEHICLE DETECTION LAYOUT
48	7–5	SAN PEDRO INTERSECTION – CONDUIT AND CONDUCTOR RUNS
49	7–6	SAN PEDRO INTERSECTION – MASTARM AND POLE CONDUCTOR RUNS
50	7–7	SAN PEDRO INTERSECTION – LOOP DETECTORS
51	7–8	SAN PEDRO INTERSECTION – FUNCTION CHARTS
52	7–9	LOUISIANA ALAMEDA INTERSECTION CONDUIT AND PULL BOX LAYOUT
53	7–10	LOUISIANA INTERSECTION – CONDUIT AND CONDUCTOR RUNS
54	7–11	WYOMING ALAMEDA INTERSECTION SIGNAL LAYOUT
55	7–12	WYOMING INTERSECTION – CONDUIT AND CONDUCTOR RUNS
56	7–13	WYOMING INTERSECTION – FUNCTION CHARTS
57	7–14	ALAMEDA CORRIDOR COMMUNICATIONS LAYOUT
58	7–15	ALAMEDA COMMUNICATION SYSTEM – CONDUIT AND CONDUCTOR RUNS
59	7–16	ALAMEDA COMMUNICATIONS SYSTEM – SPLICE DETAILS 1
60	7–17	ALAMEDA COMMUNICATIONS SYSTEM – SPLICE DETAILS 2
61	7–18	ALAMEDA COMMUNICATIONS SYSTEM – PULL BOX DETAILS

Alameda Blvd. Widening – Base Bid

Sheet No.	Drawing No.	Sheet Title
SIGNING–STRIPING SHEETS		
62	8–1	OVERALL SIGNING & STRIPING PLAN
63	8–2	ALAMEDA SIGNING & STRIPING – BOP STA 2+29.88 TO STA 7+00
64	8–3	ALAMEDA SIGNING & STRIPING – STA 7+00 TO STA 25+00
65	8–4	ALAMEDA SIGNING & STRIPING – STA 25+00 TO STA 43+00
66	8–5	ALAMEDA SIGNING & STRIPING – STA 43+00 TO STA 61+00
67	8–6	ALAMEDA SIGNING & STRIPING – STA 61+00 TO STA 64+60.64 EOP
68	8–7	SAN PEDRO SIGNING & STRIPING BOP STA 5+00 TO STA 18+11.05 EOP
69	8–8	LOUISIANA SIGNING & STRIPING BOP STA 5+00 TO STA 18+98.86
70	8–9	WYOMING SIGNING & STRIPING BOP STA 5+00 TO STA 14+00 EOP
71	8–10	SIGNING & STRIPING – DETAILS
SAN PEDRO STORM DRAIN		
72		GENERAL NOTES & LEGEND
73		OVERALL LAYOUT
74		REMOVAL AND PAVING SHEET SAN PEDRO DR.
75		SAN PEDRO DR. PLAN & PROFILE STA. 115+80 TO STA. 120+00
76		SAN PEDRO DR. PLAN & PROFILE STA. 120+00 TO STA. 121+82.86
77		SAN PEDRO DR. PLAN & PROFILE 48" RCP AT SIGNAL AVENUE
78		SIGNAL AVE. PLAN & PROFILE NORTH 48" RCP
79		SIGNAL AVE. PLAN & PROFILE SOUTH 48" RCP
80		T–MANHOLE & STORM INLET DETAILS
81		SIGNAL AVE. PLAN & PROFILE UTILITY LOWERING
82		JUNCTION BOX #4 – DETAIL SHEET
WORK ZONE		
83	10–1	WORK ZONE MAP
84	10–2	WORK ZONE MAP

Alameda Blvd. Widening–Additive Alternate 1

Sheet No.	Drawing No.	Sheet Title
GENERAL SHEETS		
1–AA1	1–1	TITLE SHEET & VICINITY MAP
2–AA1	1–2	INDEX OF SHEETS
REMOVAL SHEETS		
3–AA1	2–1	OVERALL REMOVAL PLAN
4–AA1	2–2	ALAMEDA REMOVAL SHEET – STA 7+00 TO STA 25+00
5–AA1	2–3	ALAMEDA REMOVAL SHEET – STA 25+00 TO STA 43+00
STORM DRAIN SHEETS		
6–AA1	4–1	OVERALL STORM DRAIN IMPROVEMENT PLAN
7–AA1	4–2	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 7+00 TO STA 16+00
8–AA1	4–3	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 16+00 TO STA 25+00
9–AA1	4–4	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 25+00 TO STA 34+00
10–AA1	4–5	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 34+00 TO STA 40+00
11–AA1	4–6	LATERALS

Alameda Blvd. Widening–Additive Alternate 2

Sheet No.	Drawing No.	Sheet Title
GENERAL SHEETS		
1–AA2	1–1	TITLE SHEET & VICINITY MAP
2–AA2	1–2	INDEX OF SHEETS
REMOVAL SHEETS		
3–AA2	2–1	OVERALL REMOVAL PLAN
4–AA2	2–2	ALAMEDA REMOVAL SHEET – STA 7+00 TO STA 25+00
5–AA2	2–3	ALAMEDA REMOVAL SHEET – STA 25+00 TO STA 43+00
ROADWAY SHEETS		
6–AA2	3–1	OVERALL ROADWAY IMPROVEMENT PLAN
7–AA2	3–2	ALAMEDA ROADWAY PLAN & PROFILE STA 7+00 TO STA 16+00
8–AA2	3–3	ALAMEDA ROADWAY PLAN & PROFILE STA 16+00 TO STA 25+00
9–AA2	3–4	ALAMEDA ROADWAY PLAN & PROFILE STA 25+00 TO STA 34+00
10–AA2	3–5	TYPICAL SECTIONS & PAVING DETAILS
11–AA2	3–6	PRIVATE DRIVEWAY DETAILS
12–AA2	3–7	PRIVATE DRIVEWAY DETAILS
STORM DRAIN SHEETS		
13–AA2	4–1	OVERALL STORM DRAIN IMPROVEMENT PLAN
14–AA2	4–2	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 7+00 TO STA 16+00
15–AA2	4–3	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 16+00 TO STA 25+00
16–AA2	4–4	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 25+00 TO STA 34+00
17–AA2	4–5	LATERALS
TRAFFIC SHEETS		
18–AA2	7–1	TRAFFIC SIGNAL QUANTITIES
19–AA2	7–2	ALAMEDA CORRIDOR COMMUNICATIONS LAYOUT
20–AA2	7–3	ALAMEDA COMMUNICATION SYSTEM – CONDUIT AND CONDUCTOR RUNS
21–AA2	7–4	ALAMEDA COMMUNICATIONS SYSTEM– SPLICE DETAILS 1
22–AA2	7–5	ALAMEDA COMMUNICATIONS SYSTEM– SPLICE DETAILS 2
SIGNING–STRIPING SHEETS		
23–AA2	8–1	OVERALL SIGNING & STRIPING PLAN
24–AA2	8–2	ALAMEDA SIGNING & STRIPING – STA 7+00 TO STA 25+00
25–AA2	8–3	ALAMEDA SIGNING & STRIPING – STA 25+00 TO STA 43+00

LEGEND

- EXISTING STORM MANHOLE
- EXISTING COMMUNICATION MANHOLE
- EXISTING COMMUNICATION RISER
- EXISTING CATV RISER
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING PRESSURE INDICATOR POST
- EXISTING SANITARY MANHOLE
- EXISTING POWER POLE
- EXISTING ELECTRIC BOX
- EXISTING PULL BOX
- EXISTING LIGHT
- EXISTING CAMERA
- EXISTING SIGN
- EXISTING MAILBOX
- EXISTING TREE
- EXISTING SHRUB
- EXISTING YUCCA
- 91.8 EXISTING SPOT ELEVATION
- EXISTING TRAFFIC SIGNAL
- EXISTING FENCE
- EXISTING BLOCK WALL
- EXISTING CONTOUR (INDEX) — 5100 —
- EXISTING CHAIN LINK FENCE
- EXISTING STRUCTURE OUTLINE
- EXISTING RIGHT OF WAY LINE — ROW —
- EXISTING PROPERTY LINE — PL —
- TEMPORARY CONSTRUCTION EASEMENT — TCE —
- CONSTRUCTION CENTER LINE
- NEW STORM DRAIN DROP INLET
- NEW DBL YELLOW STRIPE PAVEMENT MARKING
- STANDARD WHITE STOP BAR PAVEMENT MARKING

LEGEND (CONTINUED)

- NEW OR RELOCATED TRAFFIC SIGN
- NEW BIKE LANE PAVEMENT MARKING
- NEW CONCRETE CURB AND GUTTER
- NEW CONCRETE
- NEW PATTERNED MEDIAN CONCRETE
- EXTENT OF NEW ASPHALT
- NEW STORM DRAIN MANHOLE
- NEW REINFORCED CONCRETE PIPE (RCP)
- WATERLINE RELOCATION

SEC JOB # 110203

SMITH ENGINEERING COMPANY — SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110
Phone: (505) 884-0700 Fax: (505) 884-2370
NEW MEXICO TEXAS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/1/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around on origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY:	CARTESIAN SURVEYS, INC. DATE 7-14
ACCEPTANCE BY	COA DATE 7-14
FIELD VERIFICATION BY	COA DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO. DATE 7-14

MICRO–FILM INFORMATION

RECORDED BY DATE
NO.

ENGINEER'S SEAL — DOUGLAS L. ANDREWS — NEW MEXICO — 9771 — REGISTERED PROFESSIONAL ENGINEER — 01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DATE	12-2012
DESIGNED BY	DLA	DATE	12-2012
DRAWN BY	SEC	DATE	12-2012
CHECKED BY	DLA		

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

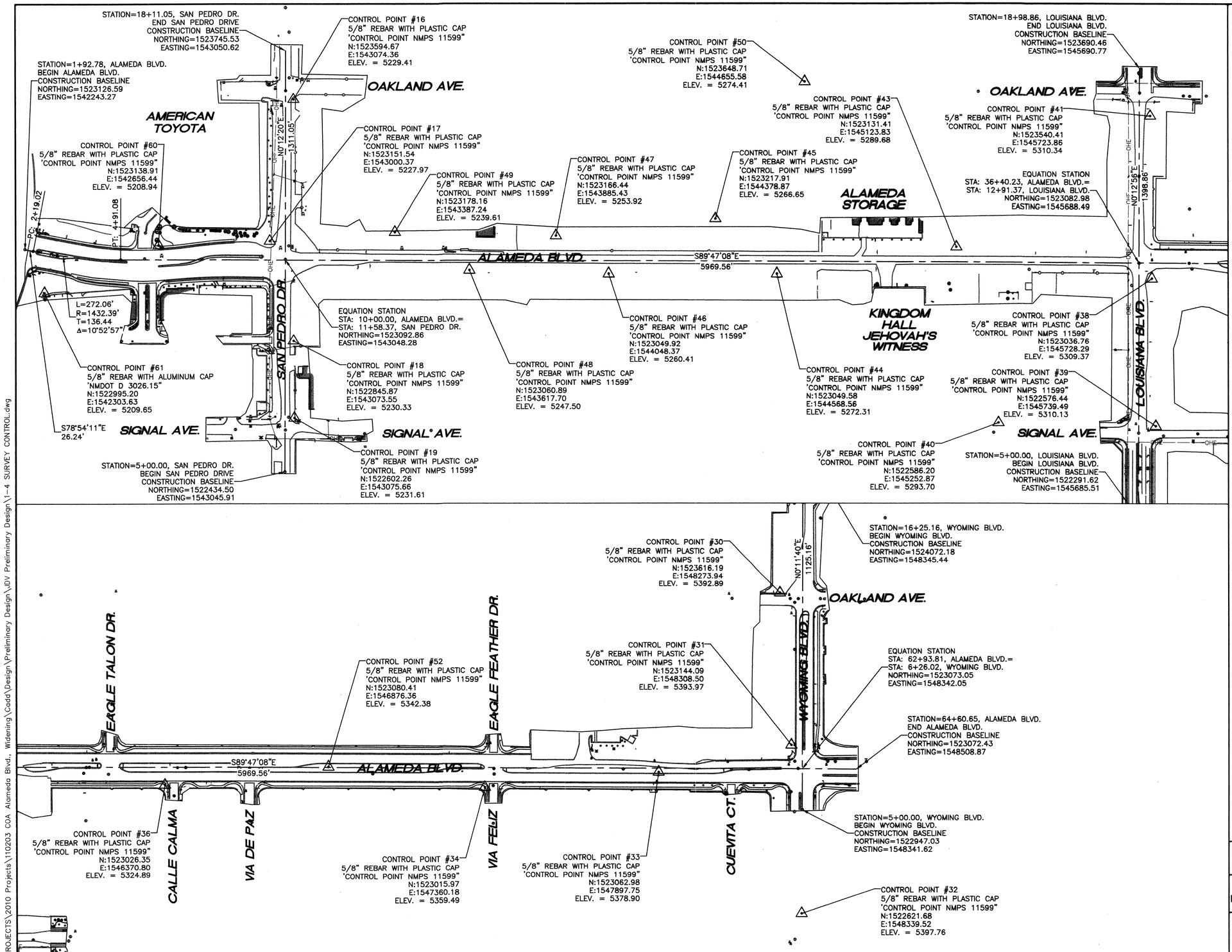
TITLE: ALAMEDA BLVD. WIDENING
INDEX OF SHEETS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	1-2	2	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\1-2 INDEX OF SHEETS.dwg



Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\1-4 SURVEY CONTROL.dwg

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
Elevations are NAVD 86, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK PERFORMED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

The coordinates and elevations are US Survey Feet.

ENGINEER'S SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
9771
REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE 12-2012	
DRAWN BY	SEC	DATE 12-2012	
CHECKED BY	DLA	DATE 12-2012	

150' 75' 0 150' 300'
SCALE: 1" = 150'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
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NEW MEXICO TEXAS

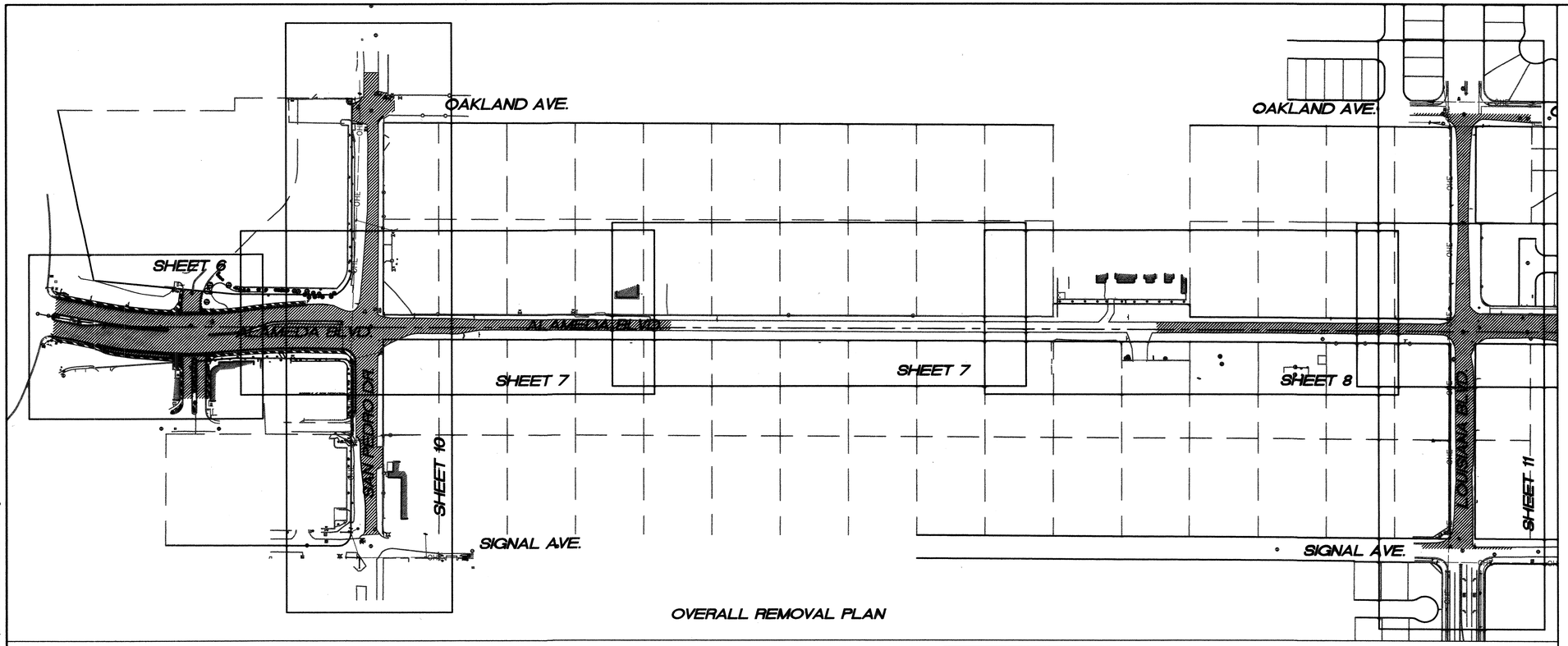
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

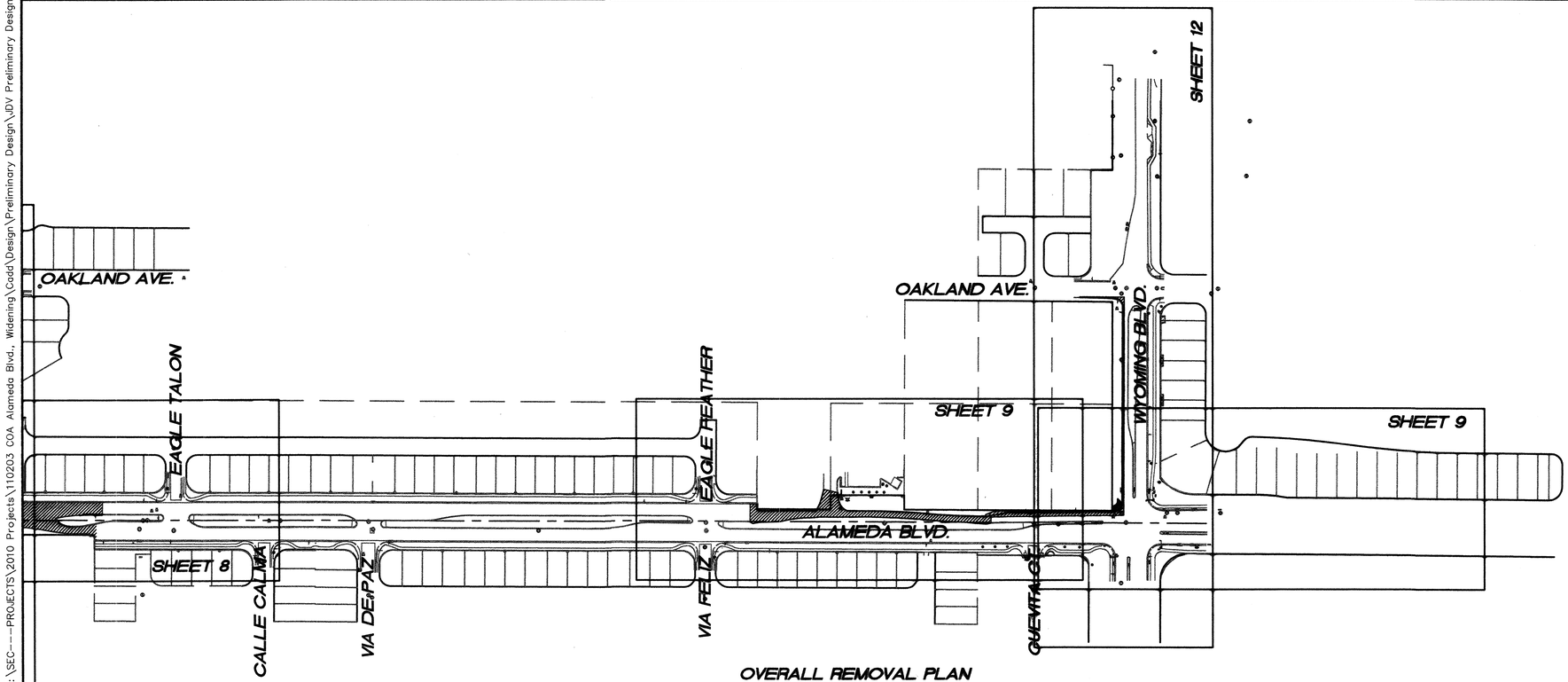
LOCAL SURVEY CONTROL AND CONSTRUCTION BASELINE INFORMATION

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	1-4	4	84



OVERALL REMOVAL PLAN



OVERALL REMOVAL PLAN

150' 75' 0 150' 300'

SCALE: 1" = 150'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-3370
72045

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY: SURVEYOR SURVEYS, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

FIELD VERIFICATION BY COA DATE 7-14

DRAWINGS CORRECTED BY SMITH ENGINEERING COMPANY DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL

DOUGLAS L. ANDREWS NEW MEXICO 9271 REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGNED BY DLA DATE 12-2012	
		DRAWN BY SEC DATE 12-2012	
		CHECKED BY DLA DATE 12-2012	

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

OVERALL REMOVAL PLAN

Design Review Committee: APPROVE JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVE JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-1	5	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Codd\Design\Preliminary Design\JDV Preliminary Design\2-1 OVERALL REMOVAL.dwg

GENERAL NOTES:

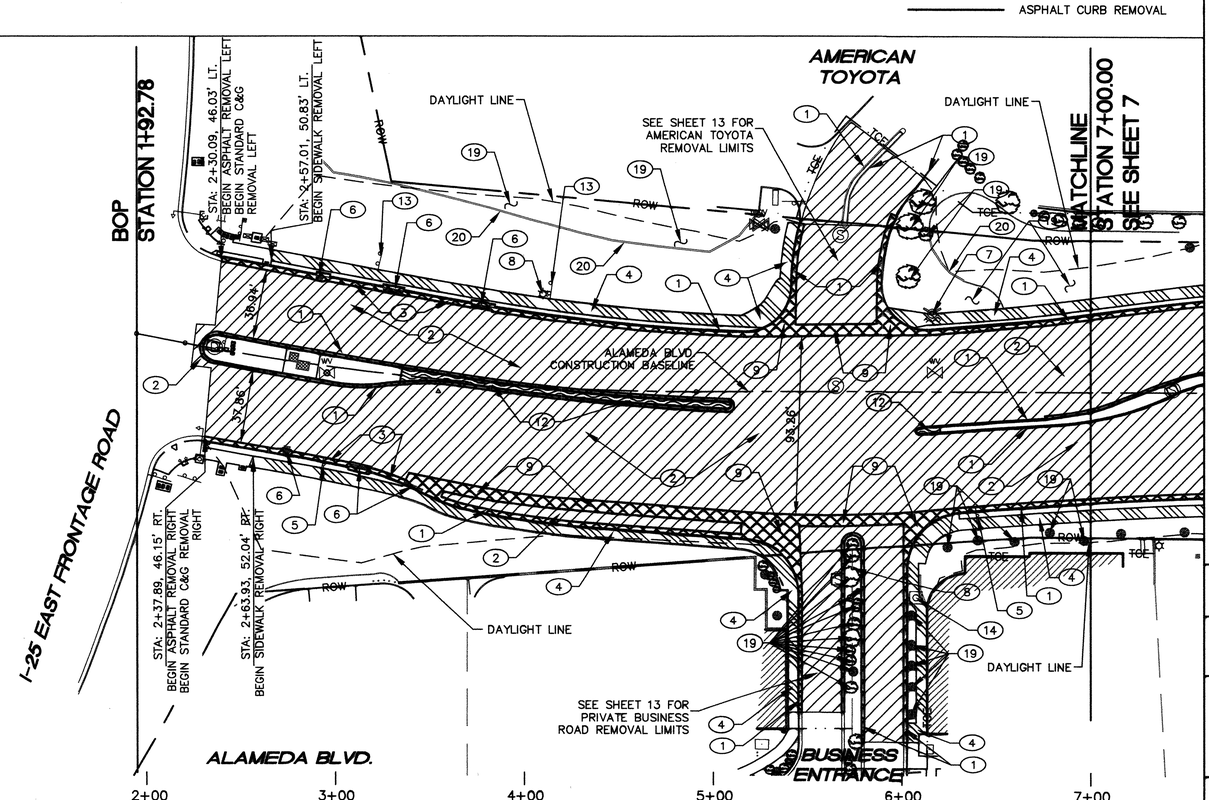
1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

LEGEND

- ASPHALT REMOVAL
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- MEDIAN PAVEMENT REMOVAL
- ASPHALT CURB REMOVAL

KEYED NOTES:

1. REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.
2. REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.
3. REMOVE AND DISPOSE OF EXISTING 18" RCP.
4. REMOVE AND DISPOSE OF EXISTING PCC SIDEWALK INCLUDING ADA RAMPS AND CURBS ASSOCIATED TO EXISTING SIDEWALK.
5. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN.
6. REMOVE AND DISPOSE OF EXISTING STORM DRAIN DROP INLET.
7. REMOVE AND DISPOSE EXISTING FIRE HYDRANT INCLUDING 6" GATE VALVE, VALVE BOX AND 25 LF± OF 6" WATERLINE. INSTALL 6" MJ CAP AND CONCRETE BLOCKING PER COA STD. DRAWING.
8. EXISTING LIGHT POLE TO BE RELOCATED BY OTHERS.
9. REMOVE AND DISPOSE OF EXISTING PCC VALLEY GUTTER.
12. REMOVE AND DISPOSE OF EXISTING PCC MEDIAN PAVEMENT.
13. REMOVE, STORE AND REINSTALL EXISTING NMDOT TRAFFIC SIGN. REINSTALL WHEN CONSTRUCTION IN THE AREA IS COMPLETE.
14. REMOVE AND DISPOSE EXISTING WATER SERVICE INCLUDING ALL PIPING, METER BOX AND ALL APPURTENANCES WITH THE EXCEPTION OF THE METER. INSTALL NEW WATER SERVICE PER COA STD. DWG. 2362. THE EXISTING METER SHALL BE REINSTALLED AFTER THE NEW WATER SERVICE HAS BEEN INSTALLED. THIS INCLUDES ANY WORK (AND MATERIALS) REQUIRED ON THE PRIVATE SIDE OF THE METER TO ADJUST TO THE NEW ELEVATION OF THE METER BOX.
19. REMOVE AND DISPOSE EXISTING TREES, SHRUBS AND ALL PLANT LIFE WITHIN THE LIMITS OF CONSTRUCTION. REMOVE AND DISPOSE OF LANDSCAPE ROCK OR GRAVEL IF PRESENT. THIS WORK SHALL BE PAID FOR THROUGH THE CLEAR AND GRUB PAY ITEM. REMOVE AND DISPOSE EXISTING IRRIGATION SYSTEM ASSOCIATED WITH LANDSCAPING. CUT AND CAP IRRIGATION AT LOGICAL SOURCE. LOGICAL SOURCE OF CUT AND CAP MUST BE PROVIDED ON AS-BUILT DRAWINGS. REMOVAL OF EXISTING IRRIGATION SHALL BE PAID AS PART OF CLEARING AND GRUBBING PAY ITEM.
20. REMOVE AND DISPOSE EXISTING WOOD (RAIL ROAD TIE) LANDSCAPE EDGE – WITHIN LIMITS OF CONSTRUCTION. REMOVAL AND DISPOSAL OF WOOD RAIL SHALL BE PAID FOR THROUGH THE CLEARING AND GRUBBING PAY ITEM.



40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING Company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-9700 Fax: (505) 884-5376
NEW MEXICO TEXAS

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

ENGINEER'S SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	DLA	DATE	12-2012
DRAWN BY	SEC	DATE	12-2012
CHECKED BY	DLA	DATE	12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

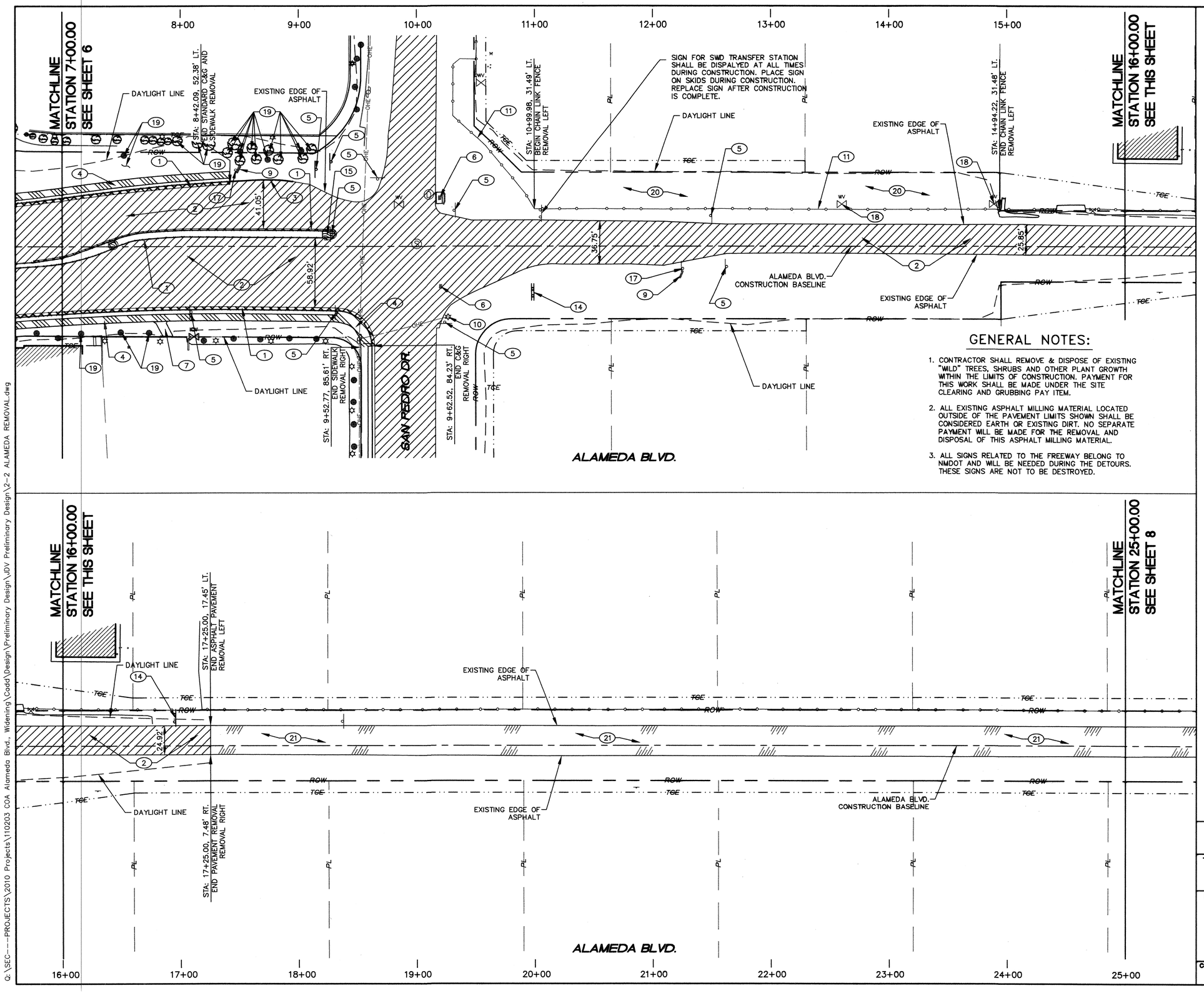
TITLE: **ALAMEDA BLVD. WIDENING**

ALAMEDA REMOVAL SHEET - BOP STA 1+92.78 TO STA 7+00

Design Review Committee	City Engineer Approval		No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER	Last Design Update		

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-2	6	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-1a ALAMEDA REMOVAL.dwg



GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.
3. ALL SIGNS RELATED TO THE FREEWAY BELONG TO NMDOT AND WILL BE NEEDED DURING THE DETOURS. THESE SIGNS ARE NOT TO BE DESTROYED.

KEYED NOTES:

1. REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.
2. REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.
3. REMOVE AND DISPOSE OF EXISTING ASPHALT CURB.
4. REMOVE AND DISPOSE OF EXISTING PCC SIDEWALK INCLUDING ADA RAMPS AND CURBS ASSOCIATED TO EXISTING SIDEWALK.
5. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN.
6. REMOVE AND DISPOSE OF EXISTING STORM DRAIN INLET. PLUG EXISTING STORM DRAIN. PLUG BY FILLING END OF PIPE WITH CONCRETE.
7. REMOVE AND DISPOSE EXISTING CONCRETE RUNDOWN. REPLACE WITH NEW CONCRETE RUNDOWN WHEN NEW SIDEWALK IS CONSTRUCTED. SEE SHEET 33 FOR RUNDOWN DETAIL.
9. REMOVE, STORE AND REINSTALL EXISTING BENCH.
10. EXISTING POWER POLE TO BE RELOCATED BY OTHERS.
11. REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE.
14. REMOVE, STORE AND REINSTALL EXISTING REAL ESTATE SIGN. REPLACE WHEN CONSTRUCTION IN THE AREA IS COMPLETE.
15. REMOVE AND DISPOSE OF EXISTING PCC MEDIAN PAVEMENT.
17. REMOVE, STORE AND REINSTALL EXISTING BUS STOP SIGN. REPLACE WHEN CONSTRUCTION IN THE AREA IS COMPLETE.
18. REMOVE AND DISPOSE EXISTING HOSE BIB. CUT AND CAP EXISTING WATERLINE.
19. REMOVE AND DISPOSE EXISTING TREES, SHRUBS AND ALL PLANT LIFE WITHIN THE LIMITS OF CONSTRUCTION. REMOVE AND DISPOSE OF LANDSCAPE ROCK OR GRAVEL IF PRESENT. THIS WORK SHALL BE PAID FOR THROUGH THE CLEAR AND GRUB PAY ITEM. REMOVE AND DISPOSE EXISTING IRRIGATION SYSTEM ASSOCIATED WITH LANDSCAPING. CUT AND CAP IRRIGATION AT LOGICAL SOURCE. LOGICAL SOURCE OF CUT AND CAP MUST BE PROVIDED ON AS-BUILT DRAWINGS. REMOVAL OF EXISTING IRRIGATION SHALL BE PAID AS PART OF CLEARING AND GRUBBING PAY ITEM.
20. REMOVE AND DISPOSE EXISTING ASPHALT PAVEMENT IF PRESENT.
21. EXISTING ASPHALT TO REMAIN.

LEGEND

- ASPHALT REMOVAL
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- MEDIAN PAVEMENT REMOVAL
- ASPHALT CURB REMOVAL

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2391 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-2700
Fax: (505) 884-2376
ZEMAS

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY:	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTORS ACCEPTANCE BY	COA DATE 7-14
VERIFICATION BY	COA DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY: DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEERS SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
10171
REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

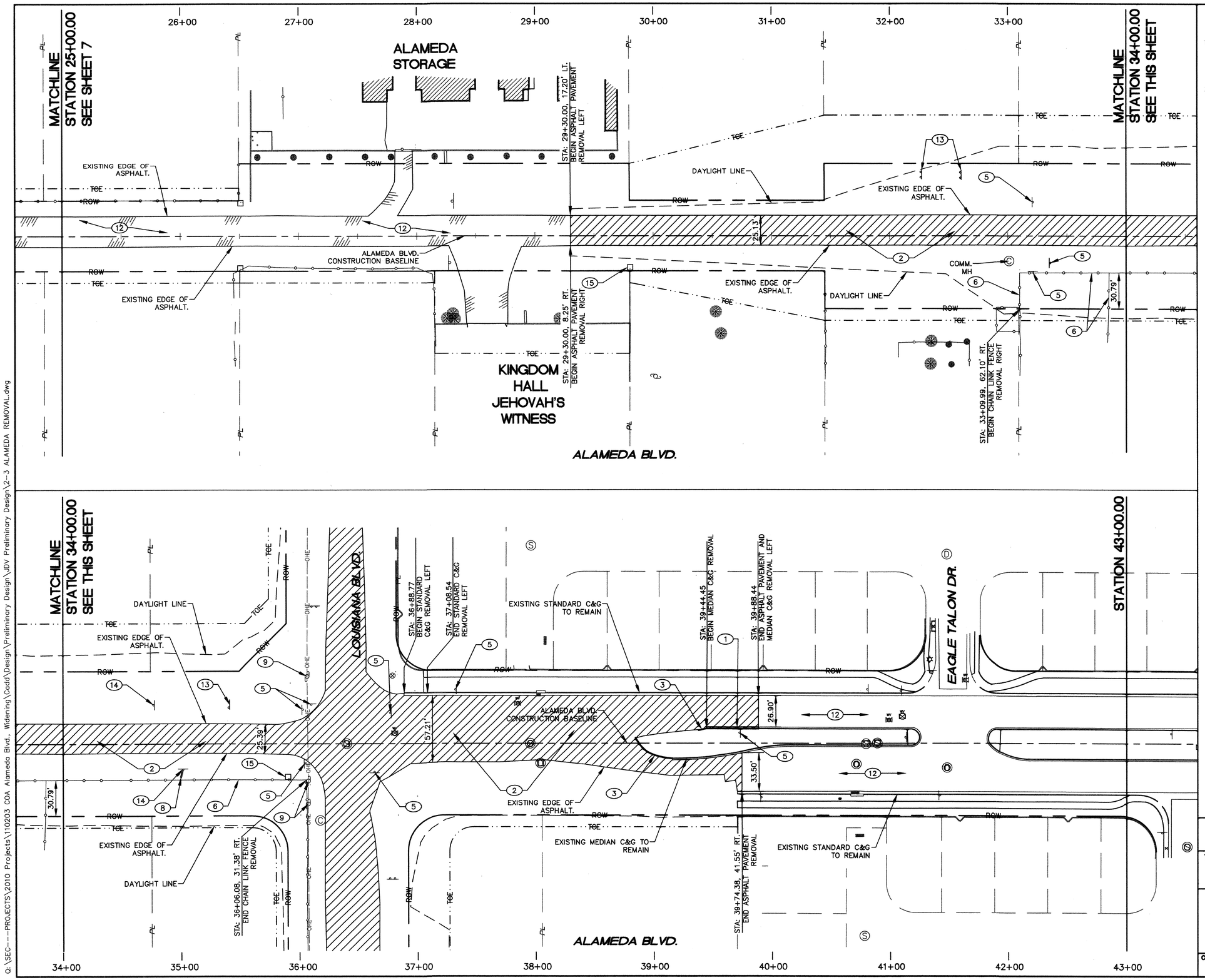
TITLE: **ALAMEDA BLVD. WIDENING**

ALAMEDA REMOVAL SHEET - STA 7+00 TO STA 25+00

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVE JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVE JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-3	7	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-2 ALAMEDA REMOVAL.dwg



GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

⬭ KEYED NOTES:

1. REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.
2. REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.
3. REMOVE AND DISPOSE OF EXISTING ASPHALT CURB.
5. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN.
6. REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE.
8. REMOVE, STORE AND REINSTALL EXISTING BENCH. REINSTALL WHEN CONSTRUCTION IN THE AREA IS COMPLETE.
9. EXISTING POWER POLE TO BE RELOCATED BY OTHERS.
12. EXISTING PAVEMENT TO REMAIN.
13. REMOVE, STORE AND REPLACE EXISTING REAL ESTATE SIGN. REPLACE WHEN CONSTRUCTION IS COMPLETE.
14. REMOVE, STORE AND REPLACE EXISTING BUS STOP SIGN. REPLACE WHEN CONSTRUCTION IS COMPLETE.
15. EXISTING COMMUNICATION CABINET TO BE RELOCATED BY OTHERS.

LEGEND

- ASPHALT REMOVAL
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- MEDIAN PAVEMENT REMOVAL
- ASPHALT CURB REMOVAL

40' 20' 0 40' 80'
SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING CONSULT
NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
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Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-3376
TEXAS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 ground an origin of 0,0.
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

NO.	DATE	REMARKS
		REVISIONS
		DESIGN

DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

ENGINEER'S SEAL — DOUGLAS L. ANDREWS — NEW MEXICO — 9771 — REGISTERED PROFESSIONAL ENGINEER
01-08-13

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: **ALAMEDA BLVD. WIDENING**

ALAMEDA REMOVAL SHEET - STA 25+00 TO STA 43+00

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-4	8	84

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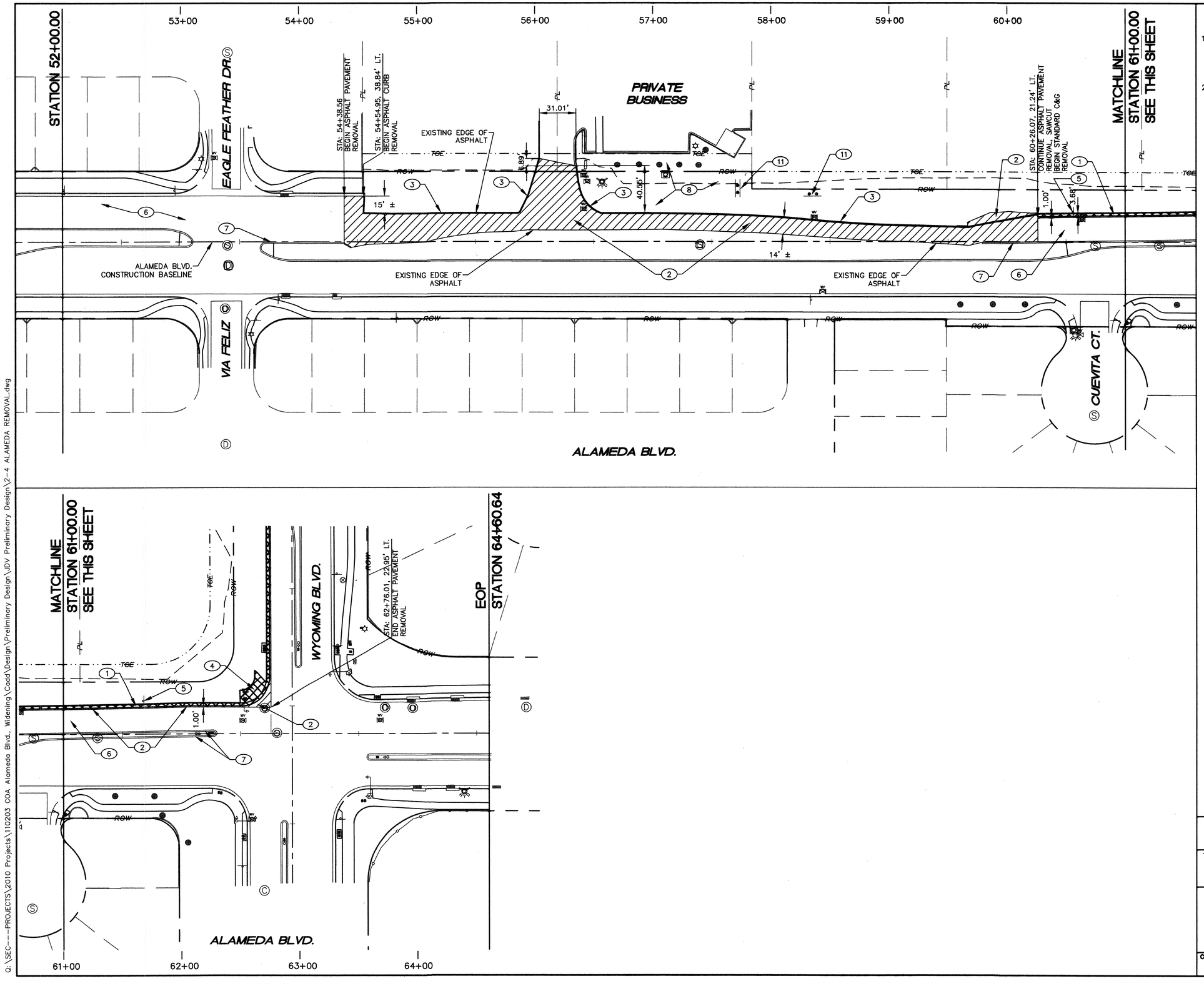


GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

KEYED NOTES:

(1) REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.

(2) REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.

(3) REMOVE AND DISPOSE OF EXISTING ASPHALT CURB.

(4) REMOVE AND DISPOSE OF EXISTING PCC SIDEWALK INCLUDING ADA RAMPS AND CURB ASSOCIATED TO EXISTING SIDEWALK.

(5) REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN.

(6) EXISTING ASPHALT PAVEMENT TO REMAIN.

(7) EXISTING MEDIAN CURB & GUTTER TO REMAIN.

(8) EXISTING LANDSCAPING TO REMAIN.

(11) REMOVE, STORE AND REINSTALL EXISTING PRIVATE REAL ESTATE SIGN WHEN CONSTRUCTION IN THE AREA IS COMPLETE.

LEGEND

- ASPHALT REMOVAL
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- MEDIAN PAVEMENT REMOVAL
- ASPHALT CURB REMOVAL

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING Consultants
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-3376
NEW MEXICO TEXAS

AS BUILT INFORMATION

	CONTRACTOR	RMCI, INC.	
	WORK INSPECTED BY:	CARTESIAN SURVEYS, INC.	DATE 7-14
	INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
	CERTIFICATION BY	COA	DATE 7-14
	DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

	RECORDED BY		DATE
	NO.		

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

ENGINEERS SEAL
DOUGLAS L. ANDREW SMITH — NEW MEXICO — 11771 — REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DLA 12-2012
			DESIGNED BY
			SEC 12-2012
			DRAWN BY
			DLA 12-2012
			CHECKED BY

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

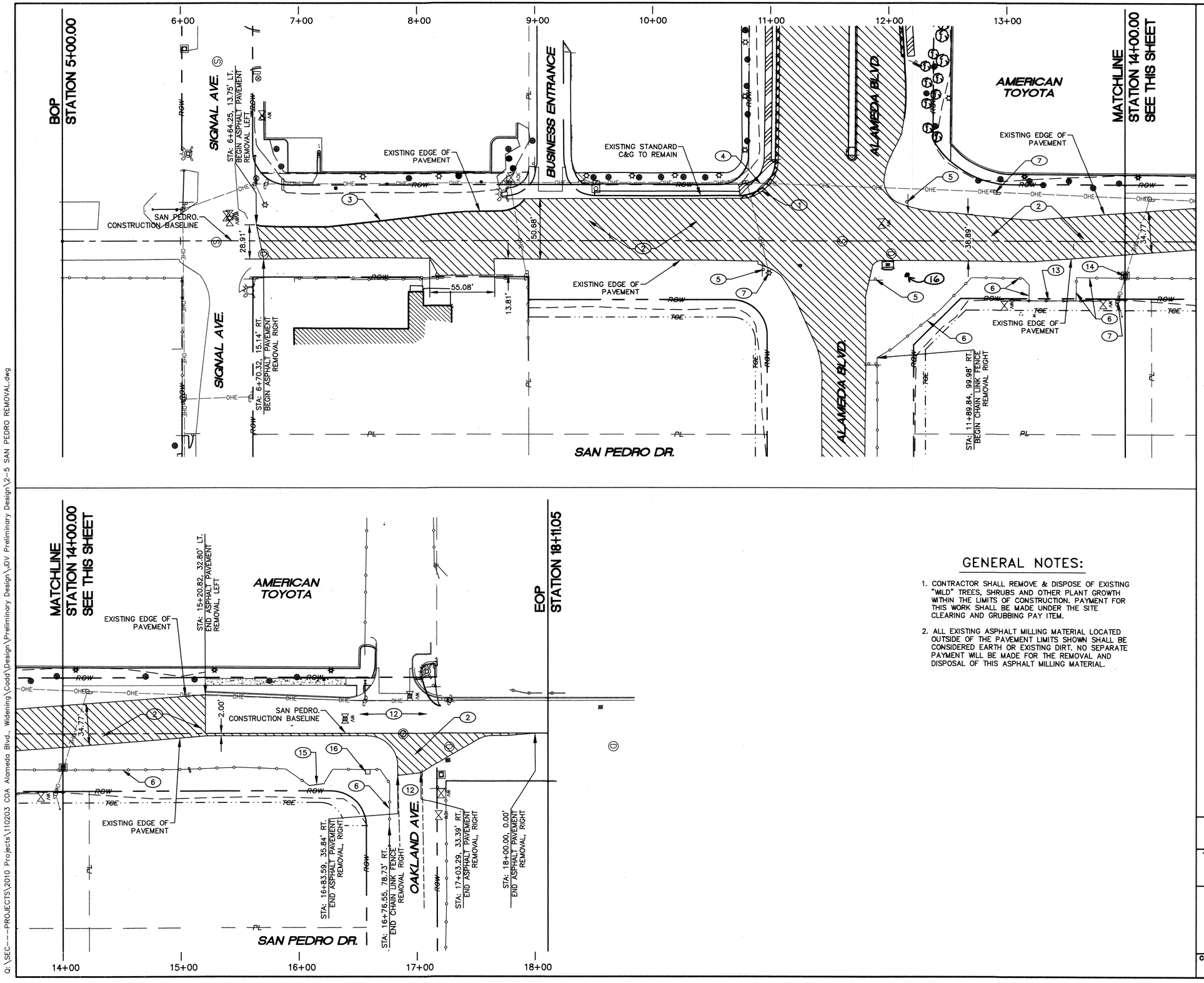
TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA REMOVAL SHEET - STA 52+00 TO STA 64+60.64 EOP

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-5	9	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-4 ALAMEDA REMOVAL.dwg



KEYED NOTES:

1. REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.
2. REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.
3. REMOVE AND DISPOSE OF EXISTING ASPHALT CURB.
4. REMOVE AND DISPOSE OF EXISTING PCC SIDEWALK INCLUDING ADA RAMPS AND CURBS ASSOCIATED TO EXISTING SIDEWALK.
5. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN.
6. REMOVE AND DISPOSE OF EXISTING FENCE.
7. EXISTING POWER POLE TO BE RELOCATED BY OTHERS.
12. EXISTING ASPHALT PAVEMENT TO REMAIN.
13. REMOVE, ~~STORE~~ AND ~~REINSTALL~~ DISPOSE EXISTING SLIDE GATE. ~~REINSTALL WHEN CONSTRUCTION IN AREA IS COMPLETE.~~
14. REMOVE AND DISPOSE EXISTING WATER SERVICE INCLUDING ALL PIPING, METER BOX AND ALL APPURTENANCES WITH THE EXCEPTION OF THE METER. INSTALL NEW WATER SERVICE PER COA STD. DWG. 2362. THE EXISTING METER SHALL BE REINSTALLED AFTER THE NEW WATER SERVICE HAS BEEN INSTALLED. THIS INCLUDES ANY WORK (AND MATERIALS) REQUIRED ON THE PRIVATE SIDE OF THE METER TO ADJUST TO THE NEW ELEVATION OF THE METER BOX.
15. REMOVE AND DISPOSE EXISTING CHAIN LINK SWING GATE.
16. EXISTING COMMUNICATION RISER, TO BE RELOCATED BY OTHERS.

LEGEND

- ASPHALT REMOVAL
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- MEDIAN PAVEMENT REMOVAL
- ASPHALT CURB REMOVAL

GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

40' 20' 0 40' 80'
SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING Company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
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Building 4, Suite 200
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Phone: (505) 884-0700
Fax: (505) 884-2376
NEW MEXICO TEXAS

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK BY: CARTESIAN SURVEYS, Inc. DATE 7-14
INSPECTORS ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
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The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEERS SEAL
DOUGLAS L. ANDREWS NEW MEXICO 11771 REGISTERED PROFESSIONAL ENGINEER
01-28-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 12-2012 DESIGNED BY DLA
			DATE 12-2012 DRAWN BY SEC
			DATE 12-2012 CHECKED BY DLA

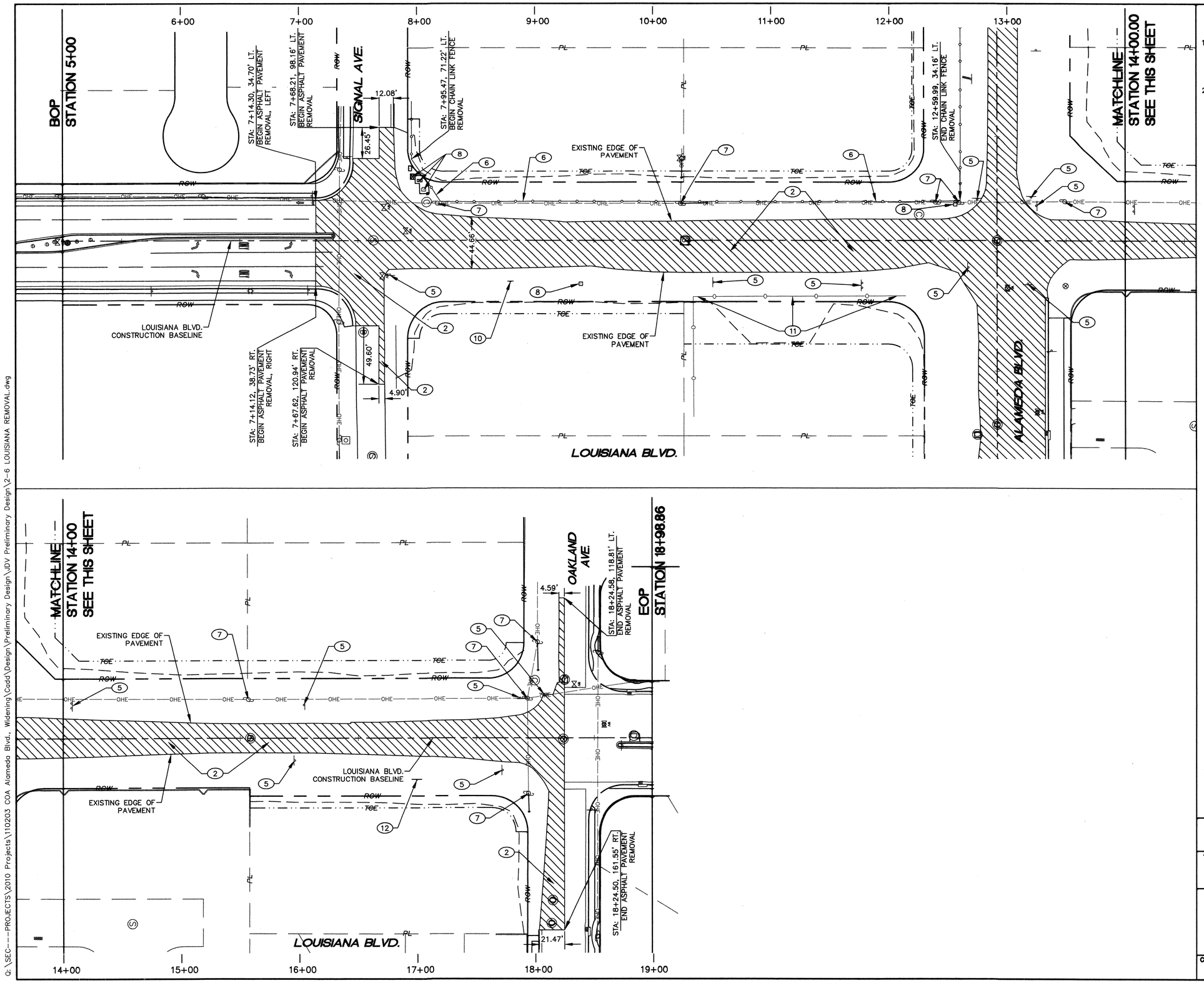
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
SAN PEDRO REMOVAL SHEET BOP STA 5+00 TO STA 18+11.05 EOP

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-6	10	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-5 SAN PEDRO REMOVAL.dwg



GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

KEYED NOTES:

(2) REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.

(5) REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN.

(6) REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE.

(7) EXISTING POWER POLE TO BE RELOCATED BY OTHERS.

(8) EXISTING COMMUNICATION UNITS TO BE RELOCATED BY OTHERS.

(10) REMOVE & DISPOSE EXISTING GAS LINE MARKER. THIS IS CONSIDERED INCIDENTAL TO CONSTRUCTION.

(11) REMOVE & DISPOSE 2' HIGH (±) WIRE FENCE WITHIN ROW.

(12) REMOVE, STORE AND REPLACE REAL ESTATE SIGN WHEN CONSTRUCTION IN THE AREA IS COMPLETE.

LEGEND

- ASPHALT REMOVAL
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- MEDIAN PAVEMENT REMOVAL
- ASPHALT CURB REMOVAL

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

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Fax: (505) 884-7376
NEW MEXICO TEXAS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the
NGS Control Station "10–C18, 1985" (published elevation = 5222.080'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

AS-BUILT INFORMATION

RECORDED BY DATE
NO.

ENGINEERS SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
9771
REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY	DATE
		REVISIONS		
		DESIGN		12–2012
			DESIGNED BY DLA	12–2012
			DRAWN BY SEC	12–2012
			CHECKED BY DLA	

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

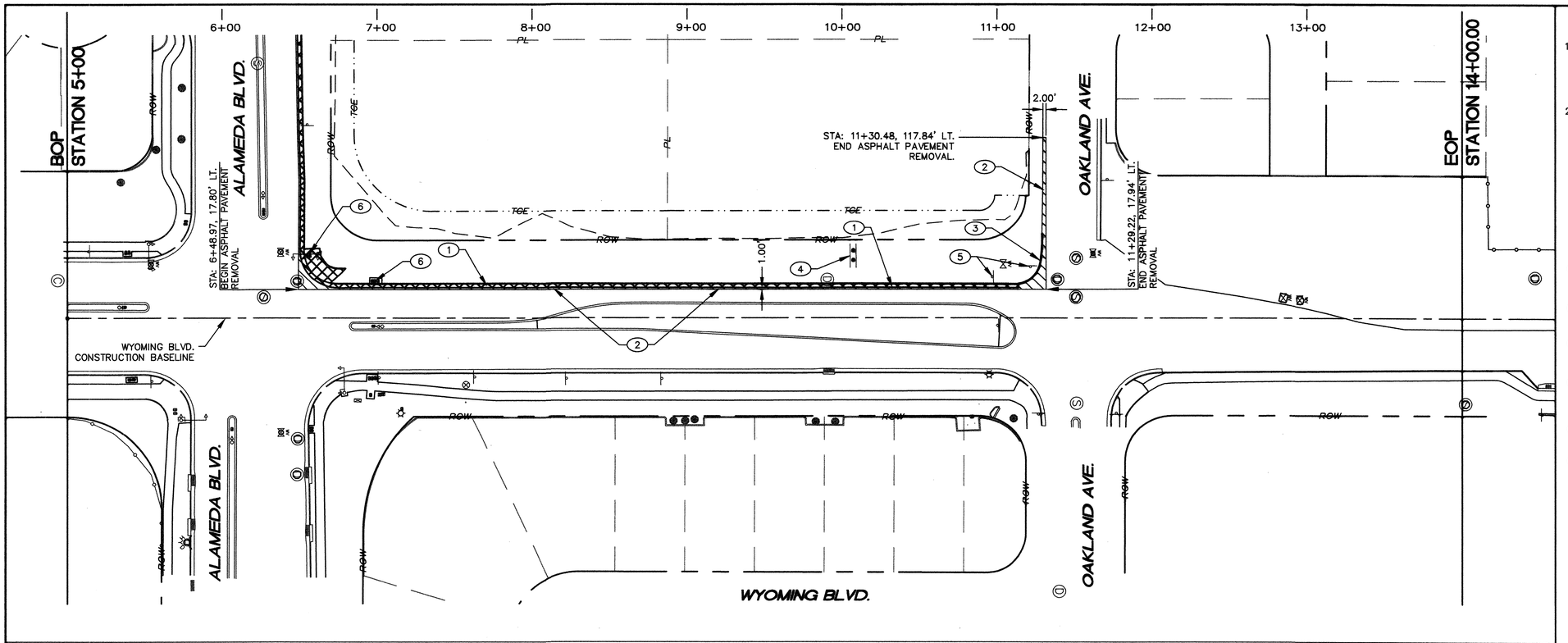
TITLE: **ALAMEDA BLVD. WIDENING**

LOUISIANA REMOVAL SHEET BOP STA 5+00 TO STA 18+98.86

Design Review Committee	City Engineer Approval		No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER	Last Design Update		

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-7	11	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-6 LOUISIANA REMOVAL.dwg



GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

⬭ KEYED NOTES:

1. REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.
2. REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.
3. REMOVE AND DISPOSE OF EXISTING ASPHALT CURB.
4. REMOVE, STORE AND REINSTALL EXISTING PRIVATE REAL ESTATE SIGN WHEN CONSTRUCTION IN THE AREA IS COMPLETE.
5. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN.
6. SEE TRAFFIC SIGNAL SHEETS FOR TRAFFIC SIGNAL REMOVALS AND RELOCATIONS.

LEGEND

- ASPHALT REMOVAL
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- MEDIAN PAVEMENT REMOVAL
- ASPHALT CURB REMOVAL

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING Company
NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2391 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-3376
TEXAS

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY: CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTORS ACCEPTANCE BY: COA DATE 7-14
VERIFICATION BY: COA DATE 7-14
DRAWINGS CORRECTED BY: SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY: DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0.0.

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEERS SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	DLA
		DESIGNED BY DLA	DATE 12–2012
		DRAWN BY SEC	DATE 12–2012
		CHECKED BY DLA	DATE 12–2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

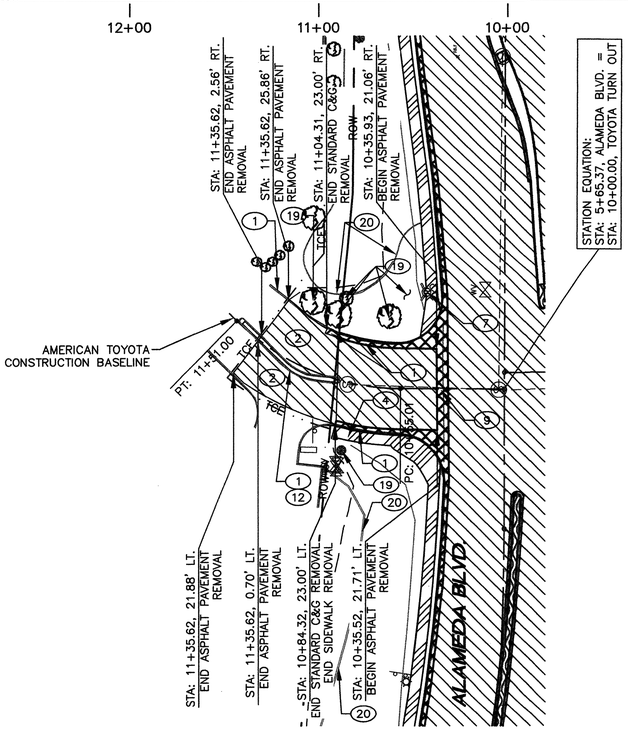
TITLE: ALAMEDA BLVD. WIDENING

WYOMING REMOVAL SHEET BOP STA 5+00 TO STA 14+00 EOP

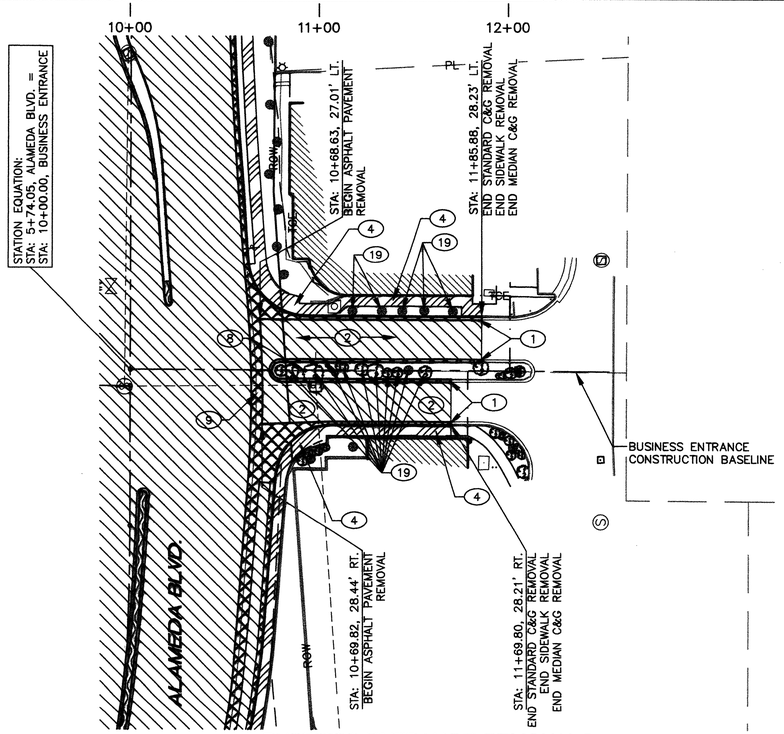
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-8	12	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-7 WYOMING REMOVAL.dwg



AMERICAN TOYOTA REMOVALS



BUSINESS ENTRANCE REMOVALS

GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

⬭ KEYED NOTES:

(1) REMOVE AND DISPOSE OF EXISTING PCC CURB AND GUTTER.

(2) REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.

(4) REMOVE AND DISPOSE OF EXISTING PCC SIDEWALK INCLUDING ADA RAMPS AND CURBS ASSOCIATED TO EXISTING SIDEWALK.

(7) REMOVE AND DISPOSE EXISTING FIRE HYDRANT. SEE ROADWAY PLAN & PROFILE SHEETS FOR RELOCATION INFORMATION.

(8) REMOVE AND RELOCATE EXISTING STREET LIGHT. SEE PAVING P&P FOR RELOCATION INFORMATION.

(9) REMOVE AND DISPOSE OF EXISTING PCC VALLEY GUTTER.

(12) REMOVE AND DISPOSE OF EXISTING PCC MEDIAN PAVEMENT.

(19) REMOVE AND DISPOSE EXISTING TREES, SHRUBS AND ALL PLANT LIFE WITHIN THE LIMITS OF CONSTRUCTION. REMOVE AND DISPOSE OF LANDSCAPE ROCK OR GRAVEL IF PRESENT. THIS WORK SHALL BE PAID FOR THROUGH THE CLEAR AND GRUB PAY ITEM. REMOVE AND DISPOSE EXISTING IRRIGATION SYSTEM ASSOCIATED WITH LANDSCAPING. CUT AND CAP IRRIGATION AT LOGICAL SOURCE. LOGICAL SOURCE OF CUT AND CAP MUST BE PROVIDED ON AS-BUILT DRAWINGS.

(20) REMOVE AND DISPOSE EXISTING WOOD (RAIL ROAD TIE) LANDSCAPE EDGE – WITHIN LIMITS OF CONSTRUCTION.

LEGEND

- ASPHALT REMOVAL
- SIDEWALK REMOVAL
- CURB & GUTTER REMOVAL
- MEDIAN PAVEMENT REMOVAL
- ASPHALT CURB REMOVAL

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING Consultants
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376
NEW MEXICO TEXAS

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
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The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK PERFORMED BY:	SAKUSEKAN	DATE 7-14
INSPECTORS SURVEYOR	SMITH ENG. INC.	DATE 7-14
ACCEPTANCE BY	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY:	SMITH	DATE 7-14
MICRO-FILMING INFORMATION		
RECORDED BY		DATE
NO.		

ENGINEERS SEAL
DOUGLAS L. ANDREWS
NEW MEXICO 9371
REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS
		REVISIONS
		DESIGN
		DESIGNED BY DLA
		DRAWN BY SEC
		CHECKED BY DLA
		DATE 12-2012
		DATE 12-2012
		DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

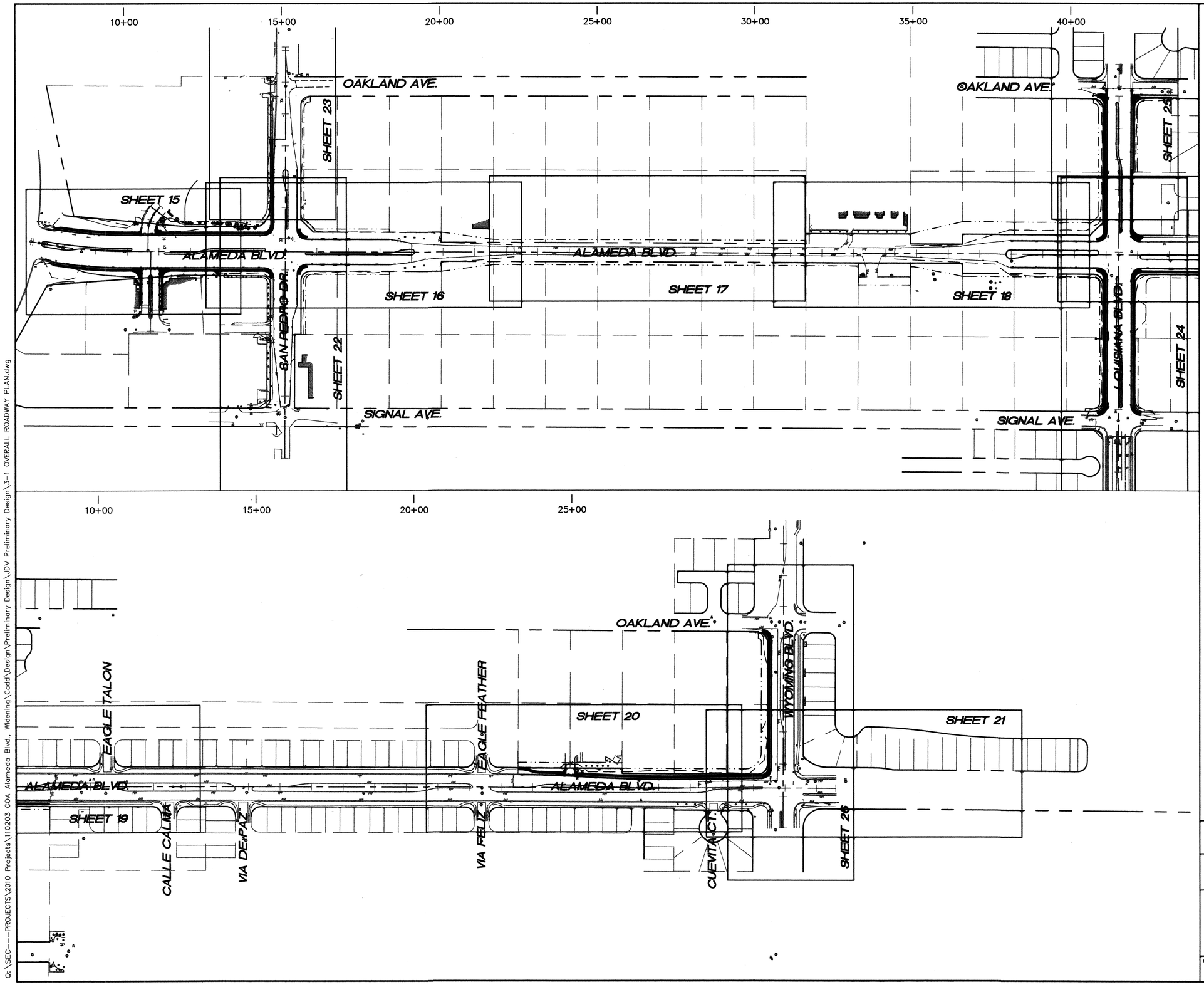
AMERICAN TOYOTA & BUSINESS ENTRANCE REMOVAL SHEET

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-9	13	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd. Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-8 TOYOTA REMOVAL.dwg



Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd. Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-1 OVERALL ROADWAY PLAN.dwg

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

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AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, Inc.	DATE 7-14
INSPECTORS ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

The coordinates and elevations are US Survey Feet.

ENGINEERS SEAL

DOUGLAS L. ANDREWS NEW MEXICO 9371 REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

150' 75' 0 150' 300'
SCALE: 1" = 150'

SEC JOB # 110203

SMITH ENGINEERING Consultant
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2376
NEW MEXICO TEXAS

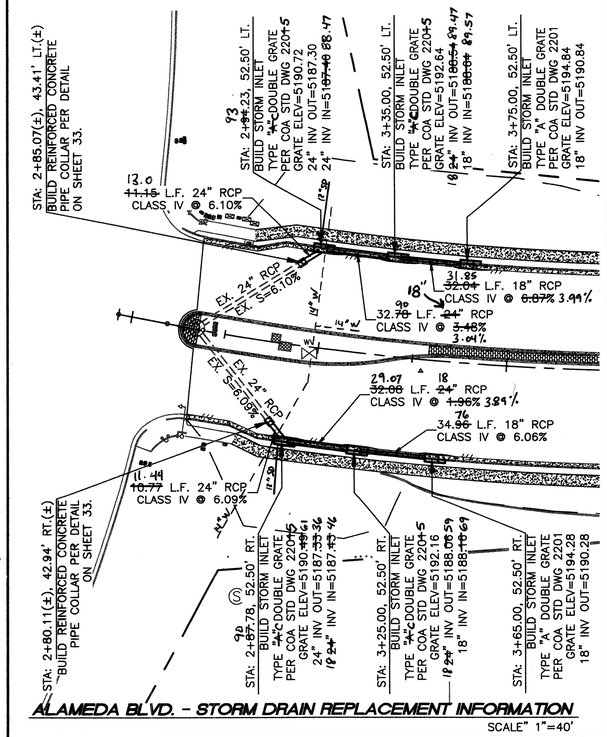
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

OVERALL ROADWAY IMPROVEMENT PLAN

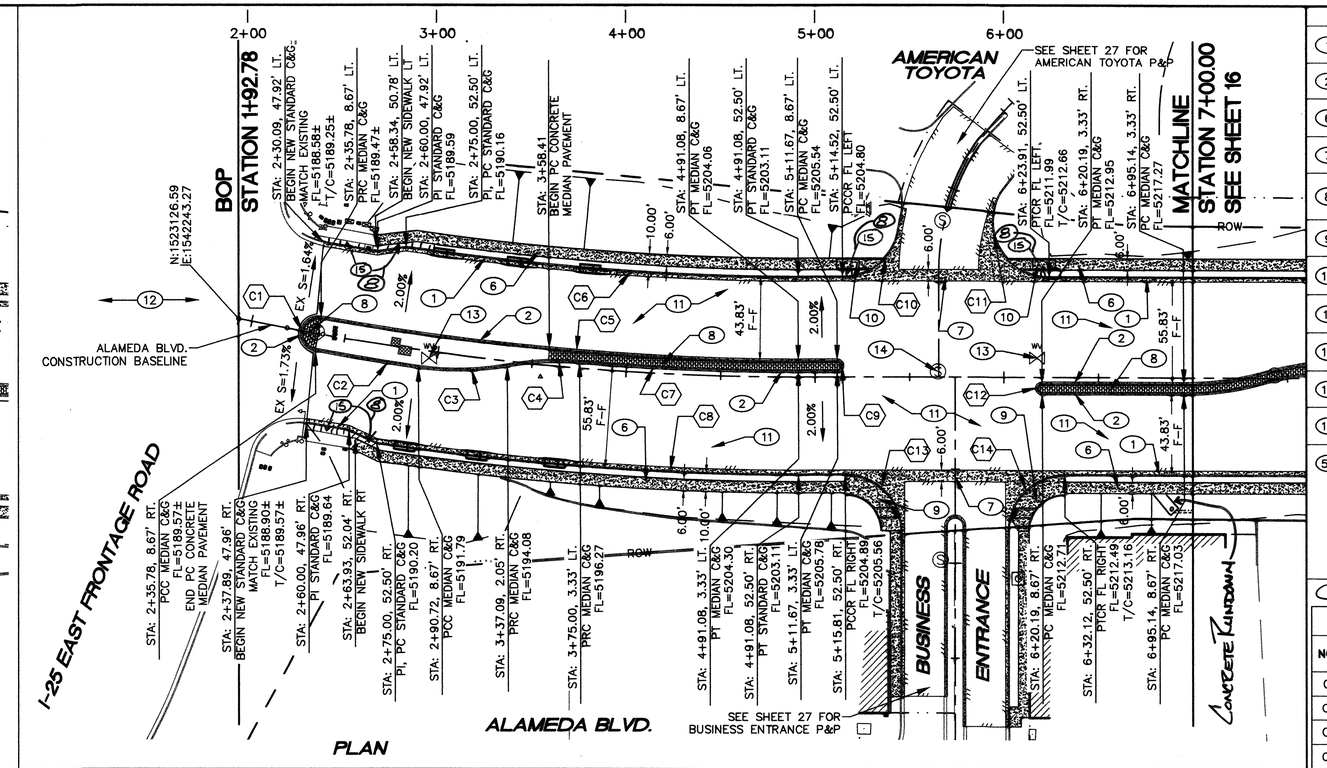
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-1	14	84



ALAMEDA BLVD. - STORM DRAIN REPLACEMENT INFORMATION

SCALE" 1"=40'

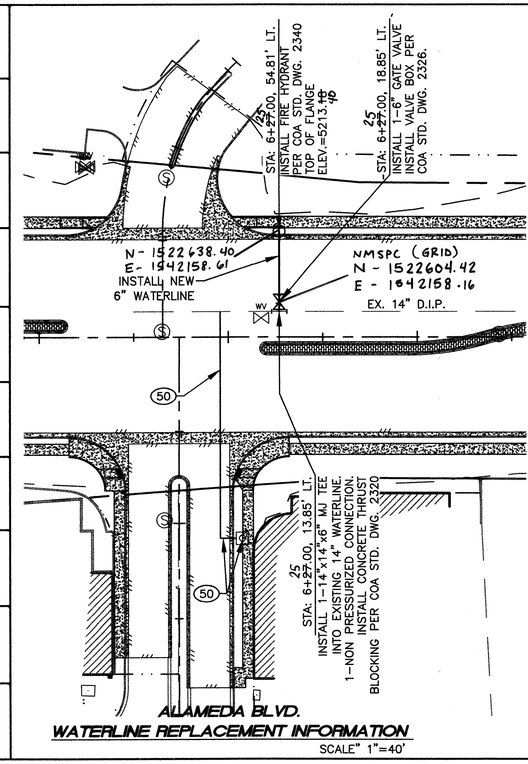


KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(7)	BUILD NEW PORTLAND CEMENT CONCRETE VALLEY GUTTER & FILLET PER COA STD. DWG. 2420.
(8)	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
(9)	BUILD ADA CURB ACCESS RAMP PER DETAIL ON SHEET 33, MODIFIED PER DETAIL THIS SHEET.
(10)	BUILD ADA CURB ACCESS RAMP PER DIMENSIONS AND SLOPES SHOWN ON SHEET 34.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	EXISTING PAVEMENT TO REMAIN.
(13)	ADJUST EXISTING VALVE BOX TO NEW GRADE PER COA STD. DWG. 2460.
(14)	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
(50)	REMOVE & DISPOSE EXISTING WATER SERVICE INCLUDING ALL PIPING, METER BOX AND ALL APPURTENANCES WITH THE EXCEPTION OF THE METER. INSTALL NEW WATER SERVICE PER COA STD DWG 2362. THE EXISTING METER SHALL BE REINSTALLED AFTER THE NEW WATER SERVICE HAS BEEN INSTALLED. THIS INCLUDES ANY WORK (AND MATERIALS) REQUIRED ON THE PRIVATE SIDE OF THE METER TO ADJUST TO THE NEW ELEVATION OF THE METER BOX.
(15)	NON-ERODIBLE SURFACE.

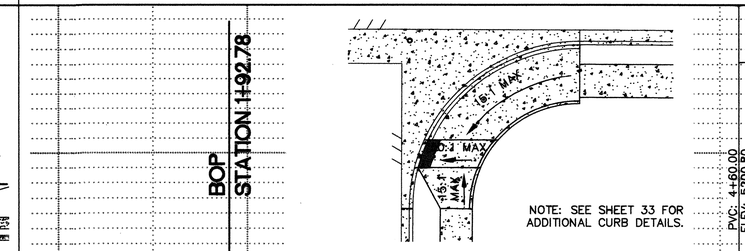
CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C1	180°00'00"	INFINITY	8.67	27.23
C2	2°11'42"	27.61	1441.06	55.20
C3	18°03'18"	23.83	150.00	47.27
C4	14°39'33"	19.29	150.00	38.38
C5	10°12'43"	127.21	1423.72	253.76
C6	8°38'36"	104.28	1379.89	208.16
C7	4°38'36"	57.94	1429.06	115.81
C8	8°38'36"	112.21	1484.89	224.00
C9	180°00'00"	INFINITY	2.67	8.38
C10	81°03'52"	25.65	30.00	42.45
C11	112°46'55"	45.14	30.00	59.05
C12	180°00'00"	INFINITY	2.67	8.38
C13	89°59'07"	30.02	30.03	47.16
C14	89°58'44"	29.99	30.00	47.11



ALAMEDA BLVD. WATERLINE REPLACEMENT INFORMATION

SCALE" 1"=40'



NOTE: SEE SHEET 33 FOR ADDITIONAL CURB DETAILS.

CURB ACCESS RAMP DETAIL

N.T.S.

NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

SCALE: 1" = 40'

SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING
NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-3376
TEXAS

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY: CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTORS ACCEPTANCE BY COA DATE 7-14

VERIFICATION BY COA DATE 7-14

DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

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N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid

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The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEER'S SEAL — DOUGLAS L. ANDREWS — NEW MEXICO — 9771 — REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012

DRAWN BY SEC DATE 12-2012

CHECKED BY DLA DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA ROADWAY PLAN & PROFILE BOP STA 1+92.78 TO STA 7+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

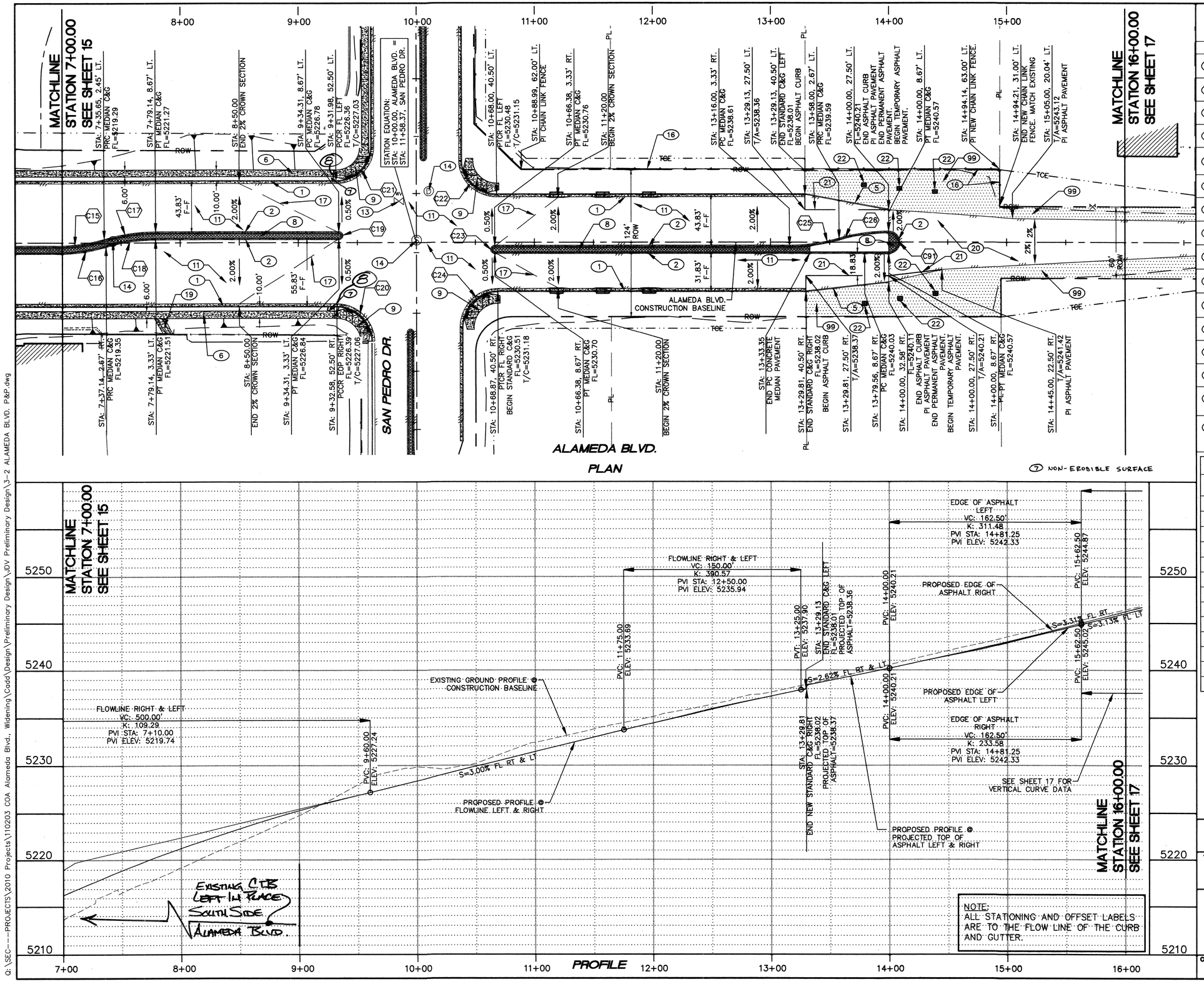
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-2	15	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd, Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-1a ALAMEDA BLVD. P&P.dwg



GENERAL NOTES

1. SEE SHEET 28 FOR INTERSECTION LAYOUT.

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(5)	BUILD NEW TEMPORARY ASPHALT CURB PER COA STD. DWG 2415B.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(8)	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
(9)	BUILD ADA CURB ACCESS RAMP PER DETAIL ON SHEET 33.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(13)	ADJUST EXISTING VALVE BOX TO NEW GRADE PER COA STD. DWG. 2460.
(14)	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
(16)	INSTALL NEW 6' HIGH CHAINLINK FENCE.
(17)	BUILD CROWN TRANSITION.
(19)	BUILD NEW CONCRETE RUNDOWN PER DETAIL ON SHEET 33.
(20)	BUILD NEW TEMPORARY ASPHALT PAVEMENT PER DETAIL ON SHEET 31. NOT CONSTRUCTED IF AA2 IS BUILT.
(21)	PROJECTED TOP OF ASPHALT LINE.
(22)	TYPE "D" STORM INLETS, SINGLE GRATE, PER COA STD DWG 2206. SEE SHEET 21 FOR DETAIL INFORMATION. NOT CONSTRUCTED IF AA2 IS BUILT.
(99)	PLACE ASPHALT PAVEMENT IN SIDE DITCH AREA. FROM EDGE OF NEW ASPHALT TO ROW LINE. SEE DETAIL ON SHEET 21. NOT CONSTRUCTED IF AA2 IS BUILT.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C15	16°15'37"	20.67	144.67	41.06
C16	16°15'37"	21.43	150.00	42.57
C17	16°15'37"	22.19	155.33	44.08
C18	16°15'37"	21.43	150.00	42.57
C19	180°00'00"	INFINITY	2.67	8.38
C20	89°56'27"	29.97	30.00	47.09
C21	90°00'14"	30.00	30.00	47.13
C22	89°59'29"	30.00	30.00	47.12
C23	180°00'00"	INFINITY	2.67	8.38
C24	90°00'31"	30.00	30.00	47.13
C25	16°15'37"	21.43	150.00	42.57
C26	16°15'37"	21.43	150.00	42.57
C91	180°00'00"	INFINITY	8.67	27.23

SCALE: 1" = 40'

SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING — SOLUTIONS FOR TODAY... VISION FOR TOMORROW — 2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2370 — NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: **ALAMEDA BLVD. WIDENING**

ALAMEDA ROADWAY PLAN & PROFILE STA 7+00 TO STA 16+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-3	16	84

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK PERFORMED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
RECORDED BY MICRO-FILM INFORMATION DATE
NO.

BENCH MARKS
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The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

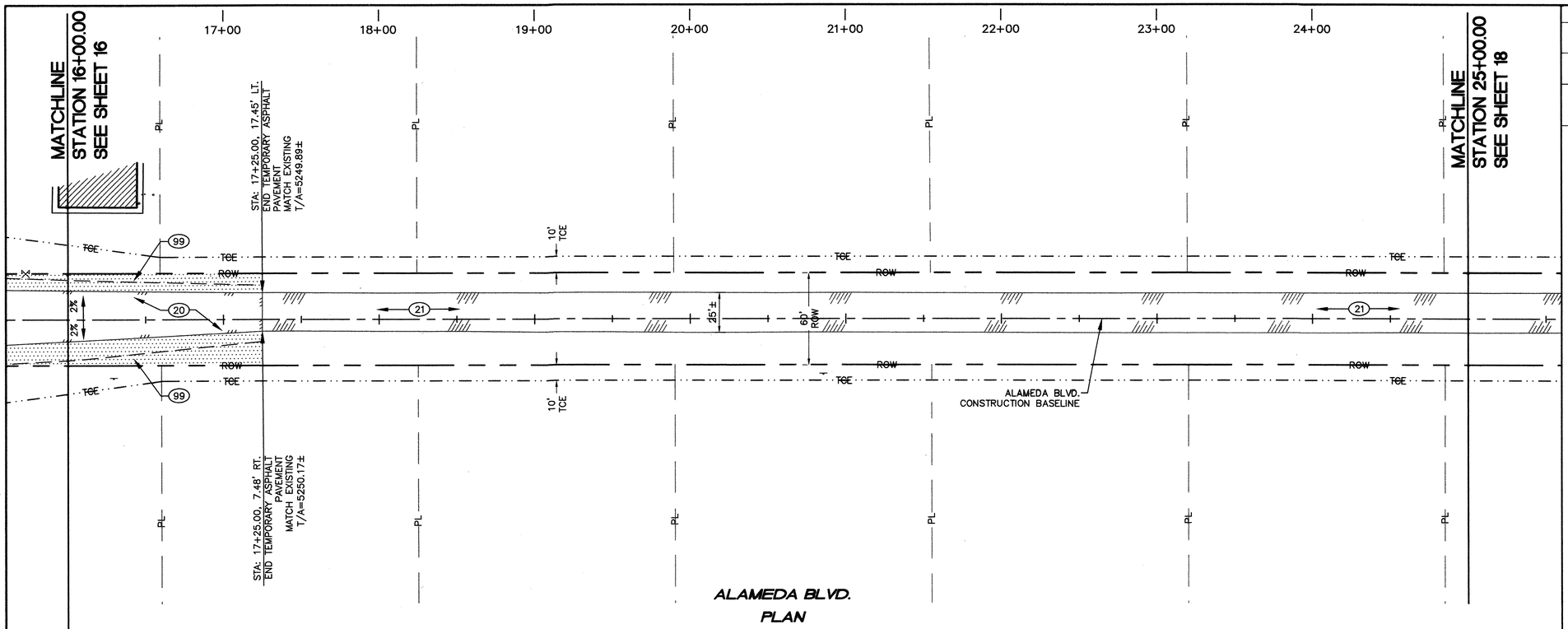
NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

REMARKS / REVISIONS / DESIGN

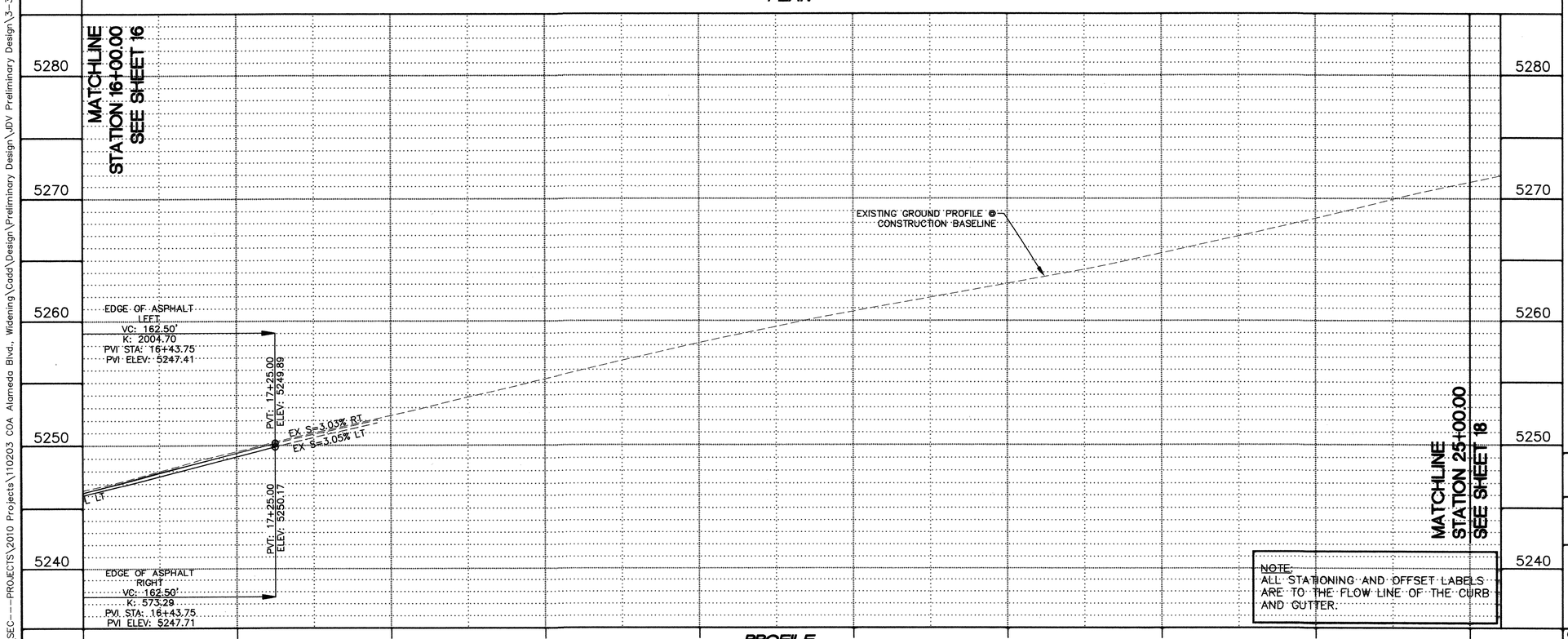
NO.	DATE	BY
	DESIGNED	DLA 12-2012
	DRAWN	SEC 12-2012
	CHECKED	DLA 12-2012

ENGINEER'S SEAL — DOUGLAS L. ANDREWS — NEW MEXICO — 9371 — REGISTERED PROFESSIONAL ENGINEER — 01-08-13

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-2 ALAMEDA BLVD. P&P.dwg



ALAMEDA BLVD.
PLAN



PROFILE

NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

KEYED NOTES

(20) BUILD NEW TEMPORARY ASPHALT PAVEMENT PER DETAIL SHEET 31.

(21) EXISTING ASPHALT PAVEMENT TO REMAIN.

(99) PLACE ASPHALT PAVEMENT IN SIDE DITCH AREA. FROM EDGE OF NEW ASPHALT TO ROW LINE. SEE DETAIL ON SHEET 21.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

VERIFICATION BY COA DATE 7-14

DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

ENGINEERS STAMP

DOUGLAS L. ANDREWS
NEW MEXICO
9271
REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE		DATE
DESIGNED BY		DLA	12-2012
DRAWN BY		SEC	12-2012
CHECKED BY		DLA	12-2012

SCALE: 1" = 40'

SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2370
72648

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA ROADWAY PLAN & PROFILE STA 16+00 TO STA 25+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

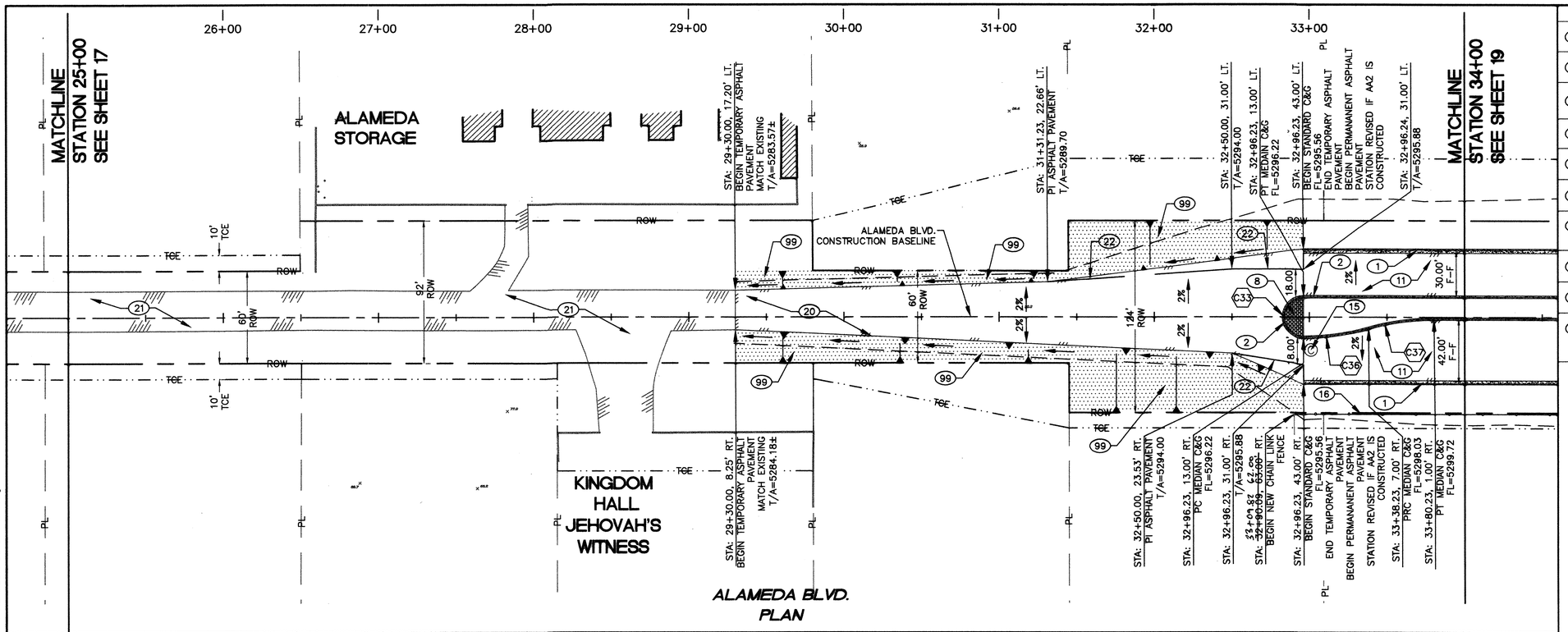
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-4	17	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-3 ALAMEDA BLVD. P&P.dwg



KEYED NOTES

1	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
2	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
8	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
11	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
15	EXISTING COMM. MANHOLE TO BE ADJUSTED TO GRADE – BY OTHERS.
16	INSTALL NEW 6' HIGH CHAINLINK FENCE.
20	BUILD NEW TEMPORARY ASPHALT PAVEMENT PER DETAIL SHEET 31, NOT CONSTRUCTED IF AA2 IS BUILT.
21	EXISTING ASPHALT PAVEMENT TO REMAIN.
22	PROJECTED TOP OF ASPHALT LINE.
99	PLACE ASPHALT PAVEMENT IN SIDE DITCH AREA. FROM EDGE OF NEW ASPHALT TO ROW LINE. SEE DETAIL ON SHEET 21, NOT CONSTRUCTED IF AA2 IS BUILT.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C33	179°56'06"	22874.24	13.00	40.83
C36	16°15'37"	21.43	150.00	42.57
C37	16°15'37"	21.43	150.00	42.57

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK INSPECTED BY: CARTESIAN SURVEYS, INC. DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD LOCATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
11599 Surveying Control, Inc. 11/2010

ENGINEER'S SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

REMARKS / REVISIONS
NO. DATE
DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

SCALE: 1" = 40'
SCALE: 1" = 5'
SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS NEW MEXICO TEXAS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-4700 Fax: (505) 884-2376

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA ROADWAY PLAN & PROFILE STA 25+00 TO STA 34+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-5	18	84

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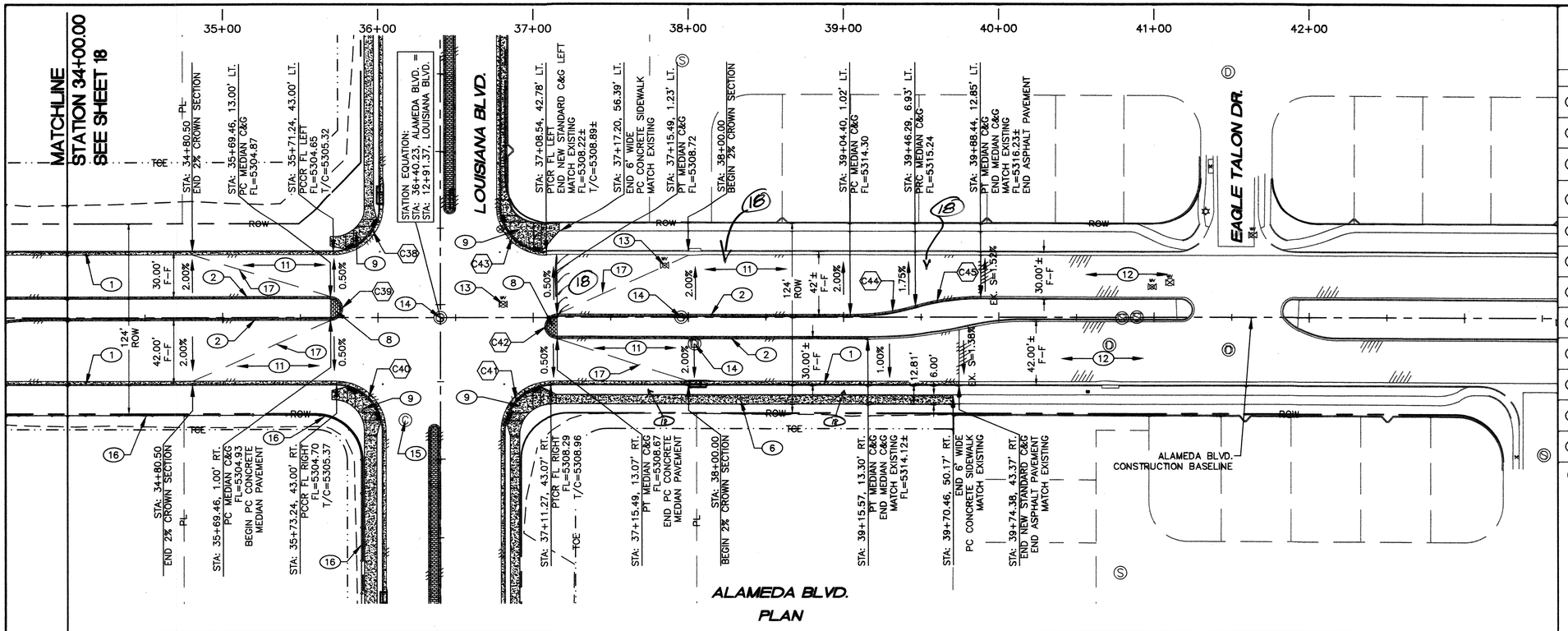


NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

GENERAL NOTES

1. SEE SHEET 29 FOR INTERSECTION LAYOUT.

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(8)	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
(9)	BUILD ADA CURB ACCESS RAMP PER DETAIL ON SHEET 33.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	EXISTING PAVEMENT TO REMAIN.
(13)	ADJUST EXISTING VALVE BOX TO NEW GRADE PER COA STD. DWG. 2460.
(14)	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
(15)	EXISTING COMM. MANHOLE TO BE ADJUSTED TO GRADE – BY OTHERS.
(16)	INSTALL NEW 6' HIGH CHAINLINK FENCE.
(17)	BUILD CROWN TRANSITION.
(18)	3/4" SANTA ANA TAN OVER WEED BARRIER.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C38	89°59'56"	30.00	30.00	47.12
C39	180°00'00"	INFINITY	7.00	21.99
C40	90°00'04"	30.00	30.00	47.12
C41	90°03'53"	30.03	30.00	47.16
C42	180°00'00"	INFINITY	7.15	22.47
C43	90°11'47"	30.10	30.00	47.23
C44	16°12'41"	21.36	150.00	42.44
C45	16°18'50"	21.50	150.00	42.71

(18) EXISTING CTB LEFT IN PLACE.

SCALE: 1" = 40'

SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING Company
NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0900
Fax: (505) 884-3376
TEXAS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

BENCH MARKS
Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK INSPECTED BY:	CARTESIAN SURVEYS, INC.	DATE 7-14
ACCEPTANCE BY	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY:	SMITH ENGINEERING CO.	DATE 7-14
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

ENGINEER'S SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
9771
REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE	12-2012
DRAWN BY	SEC	DATE	12-2012
CHECKED BY	DLA	DATE	12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

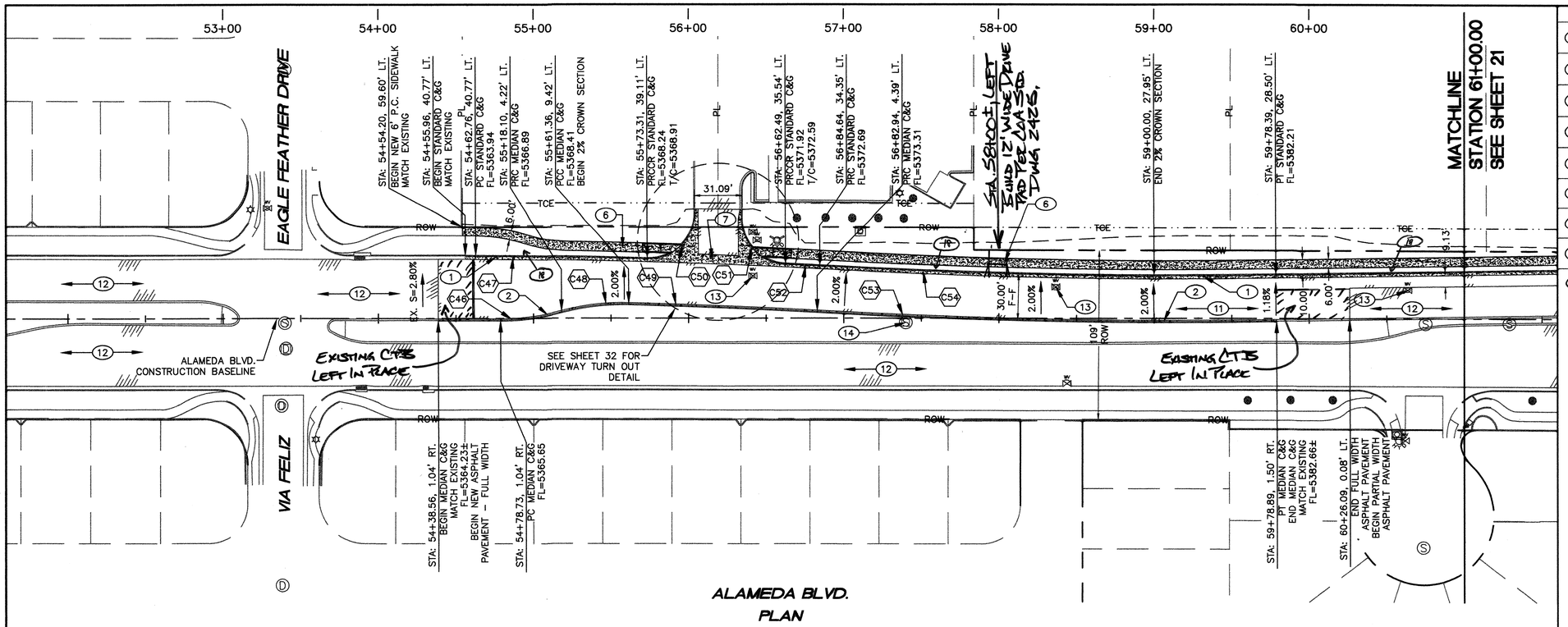
TITLE: ALAMEDA BLVD. WIDENING

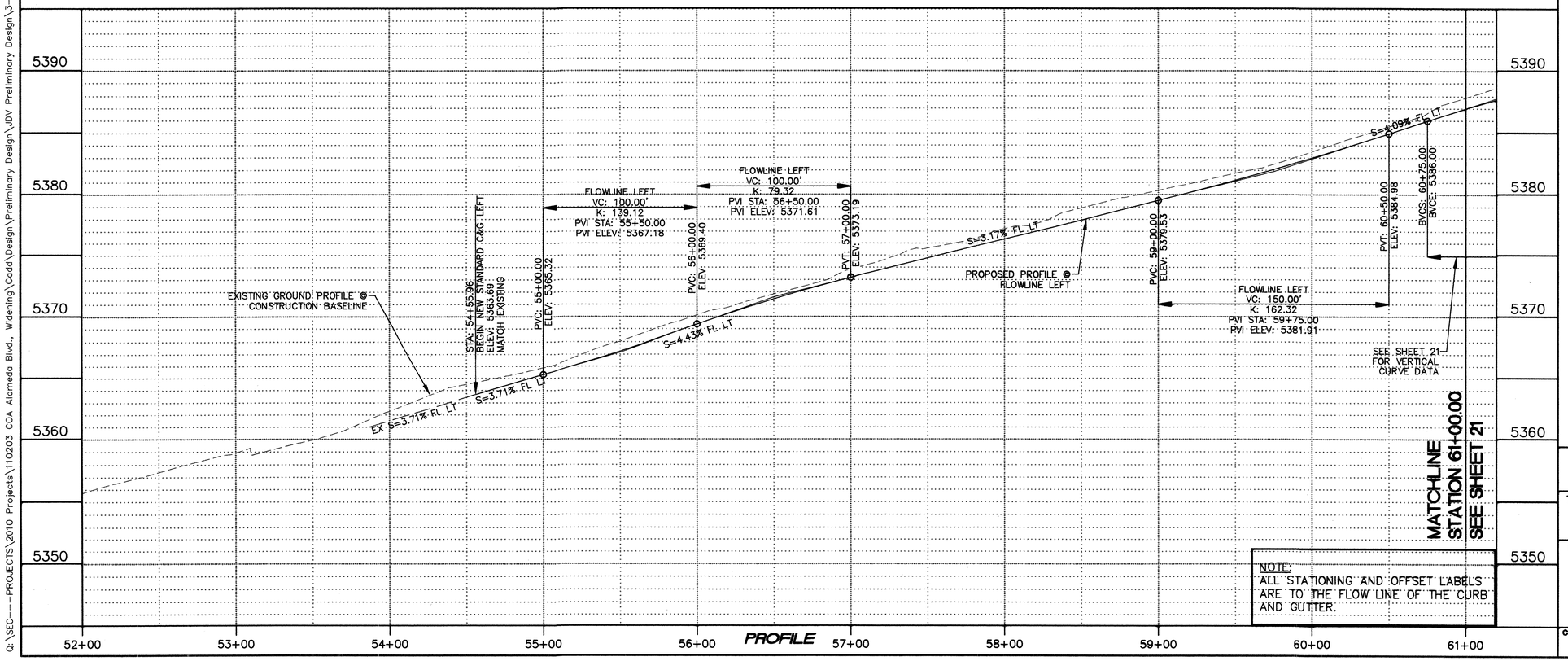
ALAMEDA ROADWAY PLAN & PROFILE STA 34+00 TO STA 43+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update
No. / Day / Yr. | No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-6	19	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd. Widening\Cadd\Design\Preliminary Design\DV Preliminary Design\3-5 ALAMEDA BLVD. P&P.dwg





NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(7)	BUILD NEW PORTLAND CEMENT CONCRETE VALLEY GUTTER & FILLET PER COA STD. DWG. 2420.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	EXISTING PAVEMENT TO REMAIN.
(13)	ADJUST EXISTING VALVE BOX TO NEW GRADE PER COA STD. DWG. 2460.
(14)	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
(18)	3/4" SANTA ANA TAN OVER WEED BARRIER.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C46	15°12'52"	20.03	150.00	39.83
C47	1°35'01"	55.28	4000.00	110.56
C48	16°42'07"	22.02	150.00	43.73
C49	1°45'23"	60.85	3970.00	121.69
C50	91°54'30"	31.02	30.00	48.12
C51	86°48'49"	28.38	30.00	45.46
C52	0°19'04"	11.09	4000.00	22.18
C53	4°12'34"	148.11	4030.00	296.08
C54	4°12'34"	147.00	4000.00	293.87

SCALE: 1" = 40'

SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376
NEW MEXICO TEXAS

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14
RECORDED BY		DATE
NO.		

MICRO-FILM INFORMATION

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project overage combined factor of CF = 1.000334961 around an origin of 0,0.
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

REMARKS

REVISIONS

NO.	DATE	BY
	DESIGN	
	DESIGNED BY DLA	DATE 12-2012
	DRAWN BY SEC	DATE 12-2012
	CHECKED BY DLA	DATE 12-2012

ENGINEERS SEAL
Douglas L. Andrews
NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

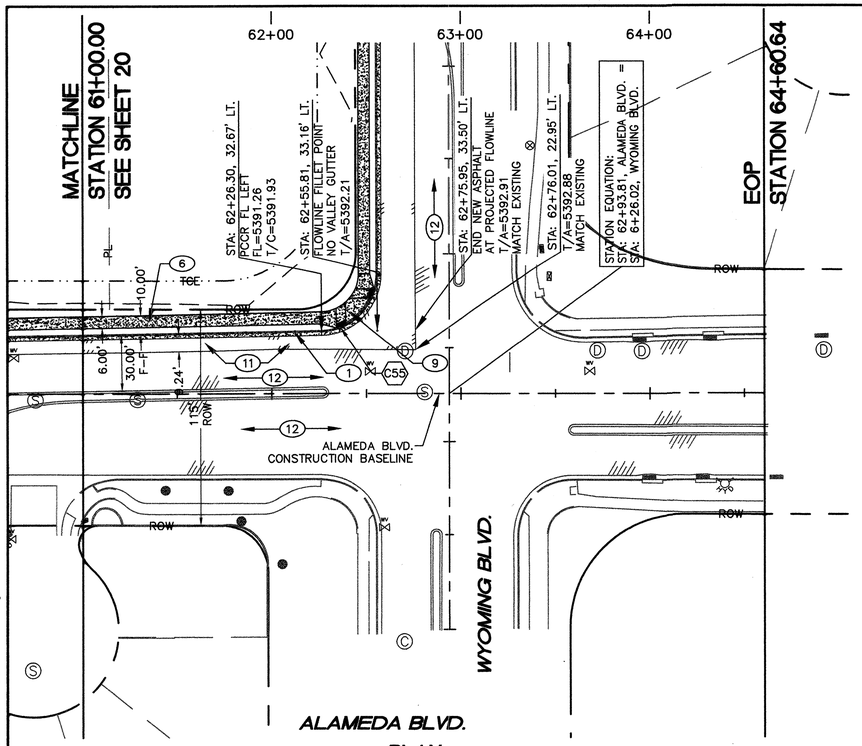
TITLE: ALAMEDA BLVD. WIDENING

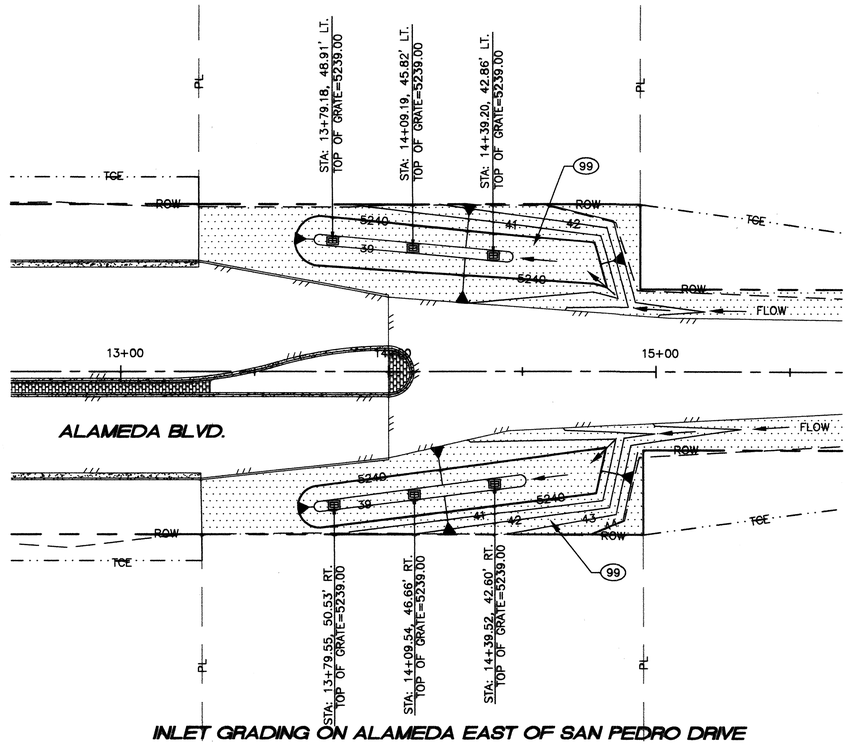
ALAMEDA ROADWAY PLAN & PROFILE STA 52+00 TO STA 61+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-7	20	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-6 ALAMEDA BLVD. P&P.dwg





INLET GRADING ON ALAMEDA EAST OF SAN PEDRO DRIVE

GENERAL NOTES

1. SEE SHEET 26 FOR ¼ POINT CURB RETURN DATA.

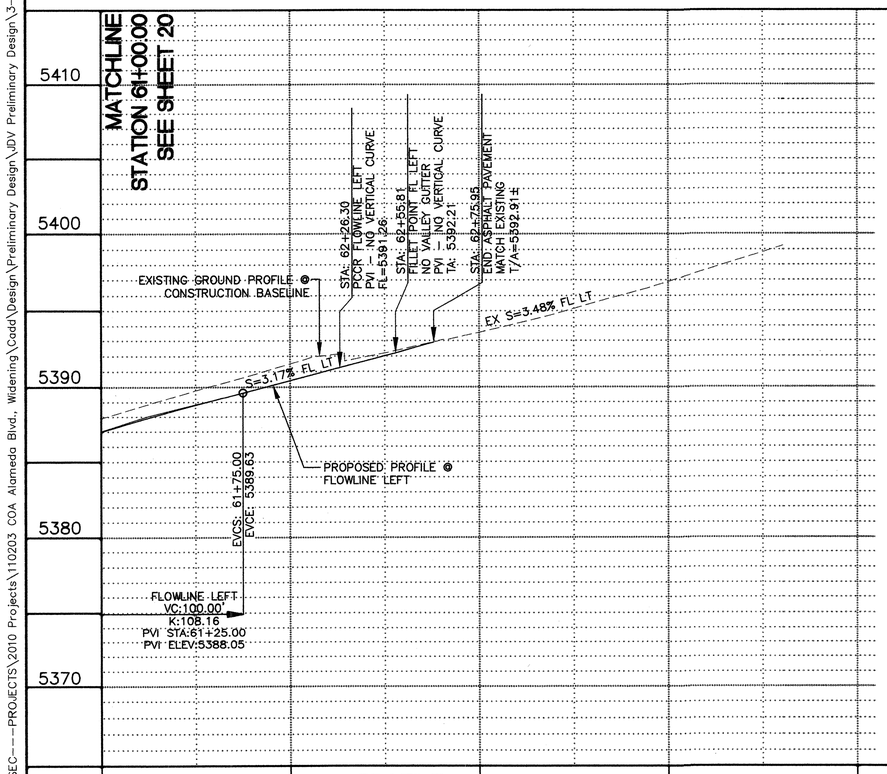
KEYED NOTES

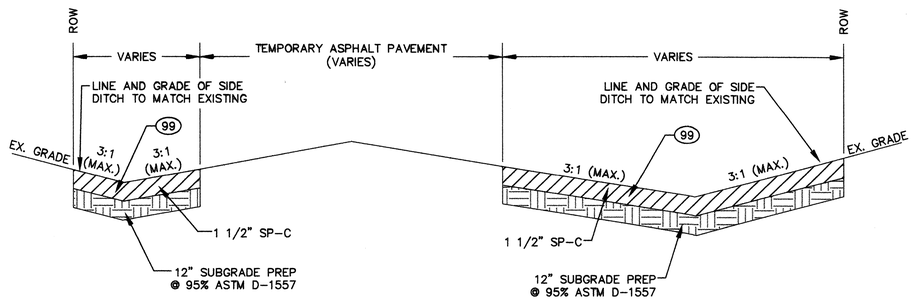
(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
~~(9)~~	~~BUILD ADA CURB ACCESS RAMP PER DETAIL SHEET 33.~~
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	EXISTING PAVEMENT TO REMAIN.
(99)	PLACE ASPHALT PAVEMENT IN SIDE DITCH AREA. FROM EDGE OF NEW ASPHALT TO ROW LINE. SEE DETAIL THIS SHEET. NOT CONSTRUCTED IF AA2 IS BUILT.

(9) BUILD ADA CURB ACCESS RAMP TO MATCH OTHERS AT THIS INTERSECTION.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C55	89°03'22"	29.51	30.00	46.63





SIDE DITCH ASPHALT PAVEMENT SECTION DETAIL

NOT TO SCALE

STATION 13+29.81 TO STATION 17+25.00
STATION 29+30.00 TO STATION 32+96.23

NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

SCALE: 1" = 40'

SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING consultant
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-3375
NEW MEXICO TEXAS

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK INSPECTED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA DATE 7-14
VERIFICATION BY	COA DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project overage combined factor of CF = 1.000334961 ground on origin of 0,0.

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEER'S SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 PROFESSIONAL ENGINEER REGISTERED
01-08-13

NO.	DATE	REMARKS	DESIGNED BY	DRAWN BY	CHECKED BY
		REVISIONS	DLA	SEC	DLA
		DESIGN	DATE 12-2012	DATE 12-2012	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

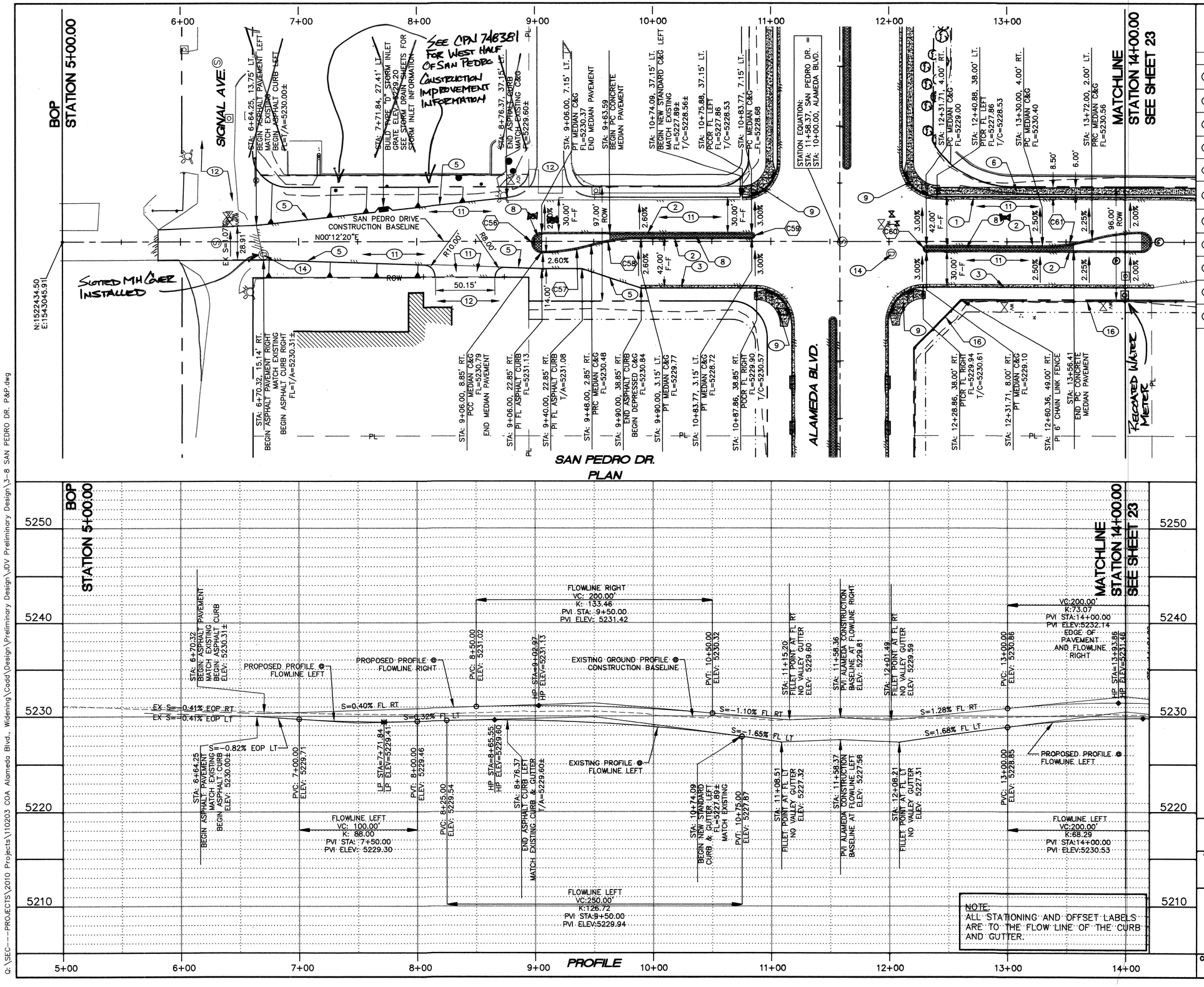
TITLE: **ALAMEDA BLVD. WIDENING**

ALAMEDA ROADWAY PLAN & PROFILE STA 61+00 TO STA 64+60.64 EOP

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-8	21	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-7 ALAMEDA BLVD. P&P.dwg



GENERAL NOTES

1. SEE SHEET 28 FOR INTERSECTION LAYOUT.

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(3)	BUILD NEW DEPRESSED CURB AND GUTTER PER COA STD. DWG 2415A.
(5)	BUILD NEW TEMPORARY ASPHALT CURB PER COA STD. DWG 2415B.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(8)	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
(9)	BUILD ADA CURB ACCESS RAMP PER DETAIL ON SHEET 33.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	EXISTING PAVEMENT TO REMAIN.
(14)	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
(16)	INSTALL NEW 6' HIGH CHAINLINK FENCE.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C56	180°00'00"	INFINITY	8.00	25.13
C57	16°15'37"	21.43	150.00	42.57
C58	16°15'37"	21.43	150.00	42.57
C59	180°00'00"	INFINITY	2.00	6.28
C60	180°00'00"	INFINITY	2.00	6.28
C61	16°15'37"	21.43	150.00	42.57

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS
Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK INSPECTED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

ENGINEER'S SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
9771
REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS / REVISIONS	BY	DATE
		DESIGN	DLA	12-2012
			SEC	12-2012
			DLA	12-2012

DESIGNED BY DLA
DRAWN BY SEC
CHECKED BY DLA

SCALE: 1" = 5'
SCALE: 1" = 40'
SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-3376
NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

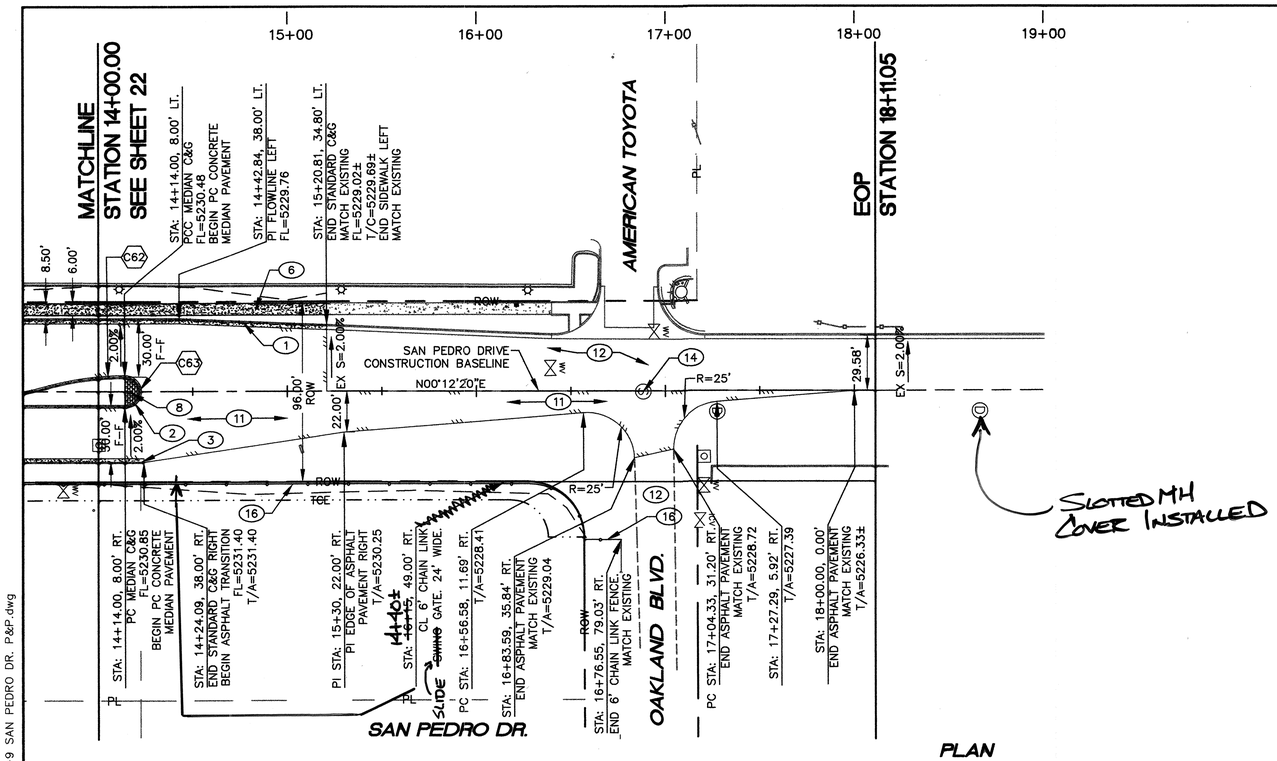
TITLE: ALAMEDA BLVD. WIDENING

SAN PEDRO ROADWAY PLAN & PROFILE STA 5+00 TO STA 14+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update: No. / Day / Yr. | No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-9	22	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-8 SAN PEDRO DR. P&P.dwg



KEYED NOTES

1. BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
2. BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
3. BUILD NEW DEPRESSED CURB AND GUTTER PER COA STD. DWG 2415A.
6. BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
8. BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
11. BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
12. EXISTING PAVEMENT TO REMAIN.
14. ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
16. INSTALL NEW 6' HIGH CHAINLINK FENCE.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C62	16°15'37"	21.43	150.00	42.57
C63	180°00'00"	INFINITY	8.00	25.13

NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS
Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 ground an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK INSPECTED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA DATE 7-14
VERIFICATION BY	COA DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

ENGINEER'S SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
9771
REGISTERED PROFESSIONAL ENGINEER
01-08-2013

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE 12-2012	
DRAWN BY	SEC	DATE 12-2012	
CHECKED BY	DLA	DATE 12-2012	

SCALE: 1" = 40'
SCALE: 1" = 5'
SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr, NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-3376
TEXAS
NEW MEXICO

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

SAN PEDRO ROADWAY PLAN & PROFILE STA 14+00 TO STA 18+11.05

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-10	23	84

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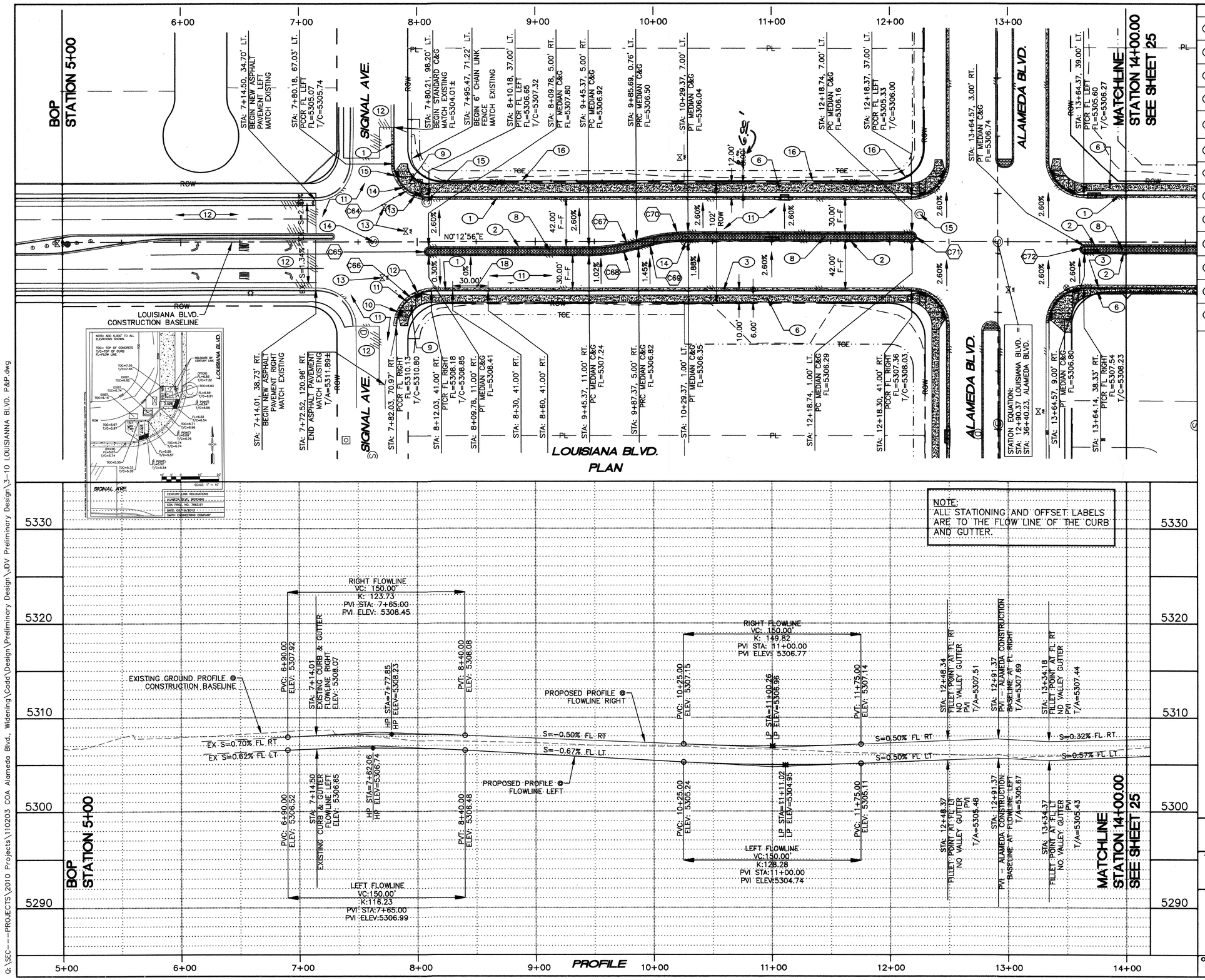

NOTE: ADD 5.300' TO ALL ELEVATIONS SHOWN.
TOC= TOP OF CONCRETE
T/C=TOP OF CURB
FL=FLOW LINE
RELOCATE BY CENTURY LINK
EXIST. TOC=6.32
EXIST. TOC=6.59
EXIST. TOC=6.16
EXIST. TOC=6.66
EXIST. TOC=6.61
EXIST. TOC=6.83
EXIST. TOC=6.54
EXIST. TOC=6.76
EXIST. TOC=6.74
EXIST. TOC=6.59
EXIST. TOC=6.57
EXIST. TOC=6.54
EXIST. TOC=6.39
EXIST. TOC=6.33
EXIST. TOC=6.34
EXIST. TOC=6.33
EXIST. TOC=6.39
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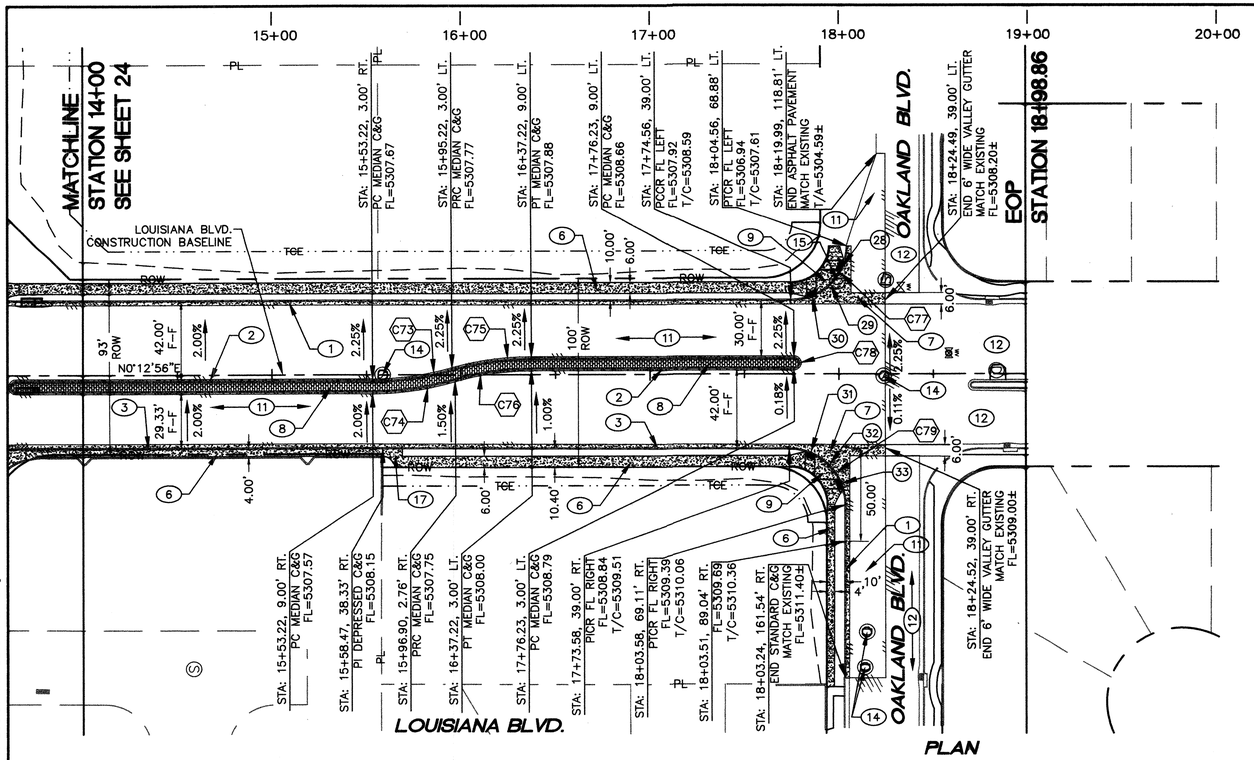
EXIST. TOC=6.57



◯ ¼ POINT CURB RETURN DATA		
NO.	TOP OF CURB	FLOW LINE
28	5307.44	5307.42
29	5308.40	5307.74
30	5307.93	5307.91
31	5308.93	5308.91
32	5309.71	5309.04
33	5309.23	5309.21

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(3)	BUILD NEW DEPRESSED CURB AND GUTTER PER COA STD. DWG 2415A.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(7)	BUILD NEW PORTLAND CEMENT CONCRETE VALLEY GUTTER AND FILLET PER COA STD. DWG. 2420.
(8)	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
(9)	BUILD ADA CURB ACCESS RAMP PER DETAIL SHEET 33.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	EXISTING PAVEMENT TO REMAIN.
(14)	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
(15)	EXISTING COMM. MANHOLE TO BE ADJUSTED TO GRADE – BY OTHERS.
(17)	BUILD SIDEWALK WITH TRANSITION (4' TO 6') PER COA STD. DWG. 2432.

⬡ CURVE DATA TABLE				
NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C73	16°15'37"	21.43	150.00	42.57
C74	16°15'36"	22.29	156.00	44.27
C75	16°15'37"	21.43	150.00	42.57
C76	16°15'37"	20.57	144.00	40.87
C77	89°45'52"	29.88	30.00	47.00
C78	180°00'00"	INFINITY	3.00	9.42
C79	90°12'38"	30.11	30.00	47.23

NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK PERFORMED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTORS ACCEPTANCE BY COA DATE 7-14
VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.080'). N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
11599 Surveying Control, Inc. 1/2010

ENGINEERS SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

REMARKS
REVISIONS
NO. DATE
DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

SCALE: 1" = 40'
SCALE: 1" = 5'
SEC JOB # 110203

SMITH ENGINEERING company NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2391 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2370
725349

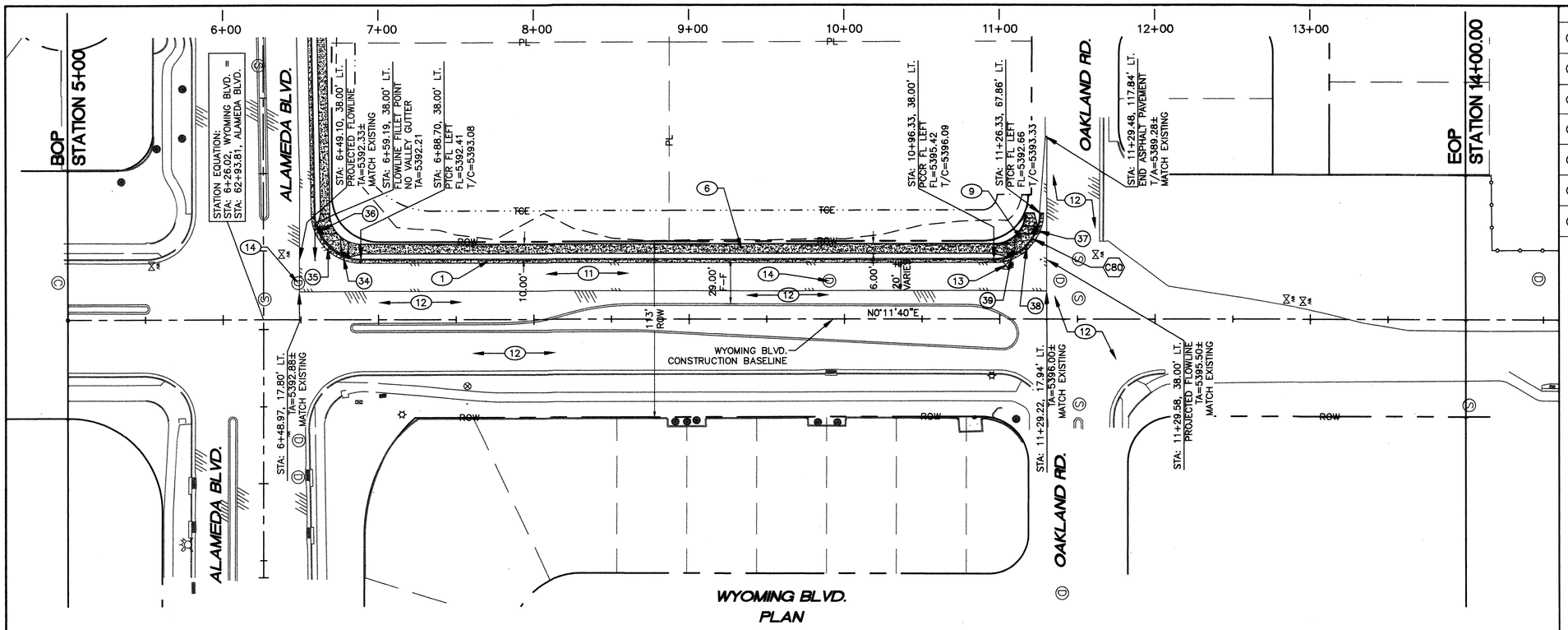
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

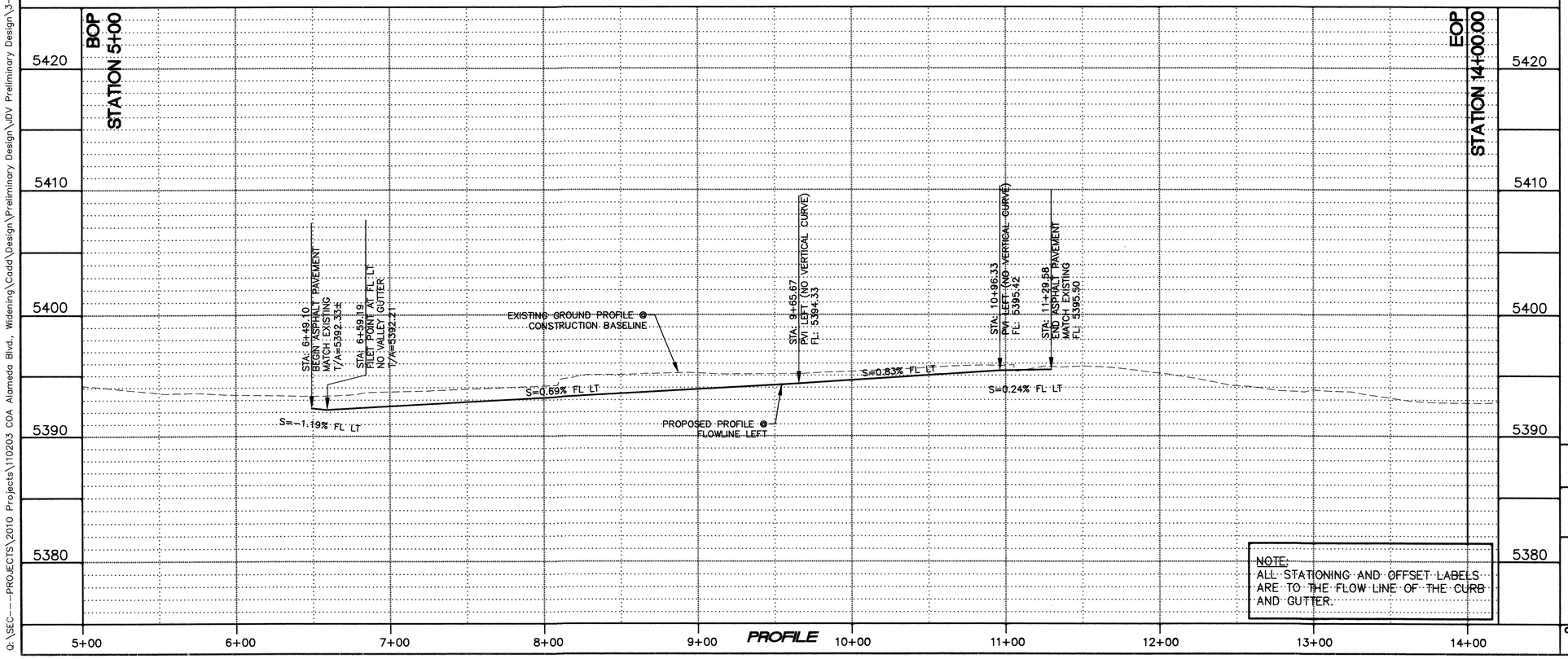
TITLE: ALAMEDA BLVD. WIDENING
LOUISIANA ROADWAY PLAN & PROFILE STA 14+00 TO STA 18+98.86

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update
No. / Day / Yr. | No. / Day / Yr.

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 3-12 | Sheet 25 Of 84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-11 LOUISIANNA BLVD. P&P.dwg





NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(9)	BUILD ADA CURB ACCESS RAMP PER DETAIL ON SHEET 33.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	EXISTING PAVEMENT TO REMAIN.
(13)	ADJUST EXISTING VALVE BOX TO NEW GRADE PER COA STD. DWG. 2460.
(14)	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C80	89°43'31"	29.86	30.00	46.98

¼ POINT CURB RETURN DATA

NO.	TOP OF CURB	FLOW LINE
34	5392.29	5392.27
35	5392.01	5391.99
36	5391.65	5391.63
37	5393.37	5393.35
38	5394.06	5394.04
39	5394.75	5394.73

SCALE: 1" = 40'

SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING Company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-7376
NEW MEXICO TEXAS

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY: CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
AS BUILT VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project overage combined factor of CF = 1.000334961 ground an origin of 0,0.
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEERS SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE 12-2012	
DRAWN BY	SEC	DATE 12-2012	
CHECKED BY	DLA	DATE 12-2012	

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

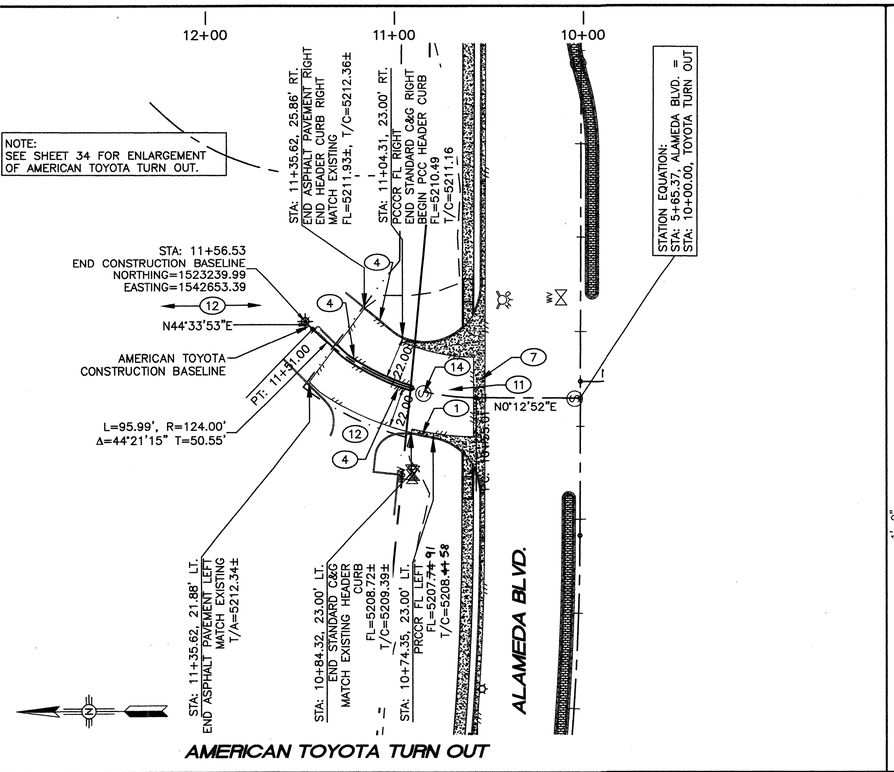
TITLE: ALAMEDA BLVD. WIDENING

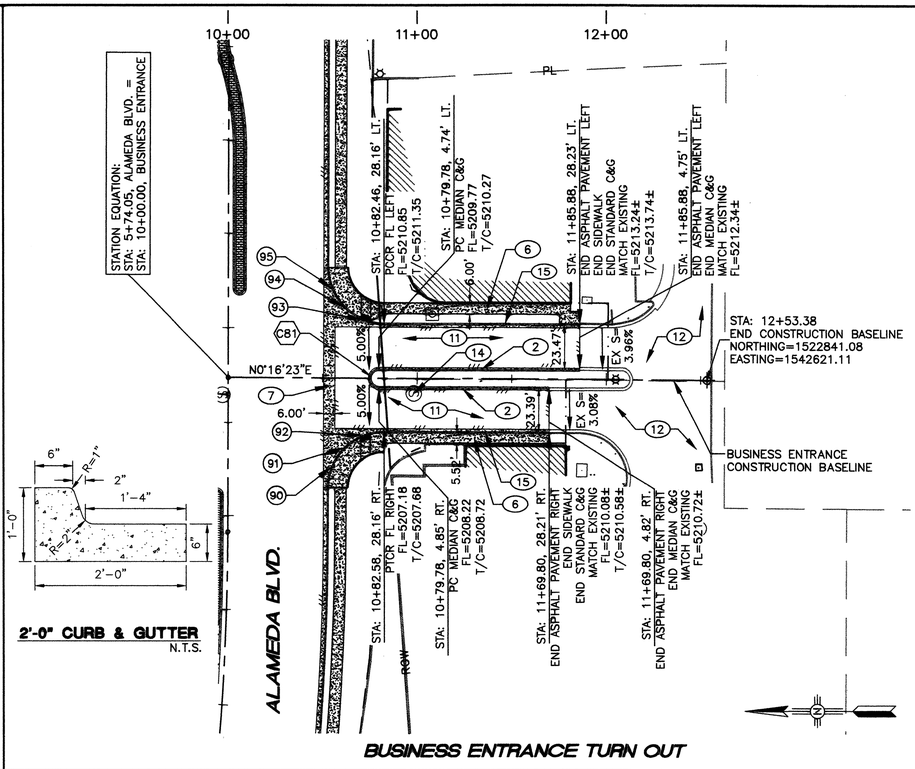
WYOMING ROADWAY PLAN & PROFILE STA 5+00 TO STA 14+00

Design Review Committee	City Engineer Approval		No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER	Last Design Update		

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-13	26	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\DV Preliminary Design\3-12 WYOMING BLVD. P&P.dwg





2'-0" CURB & GUTTER
N.T.S.

KEYED NOTES

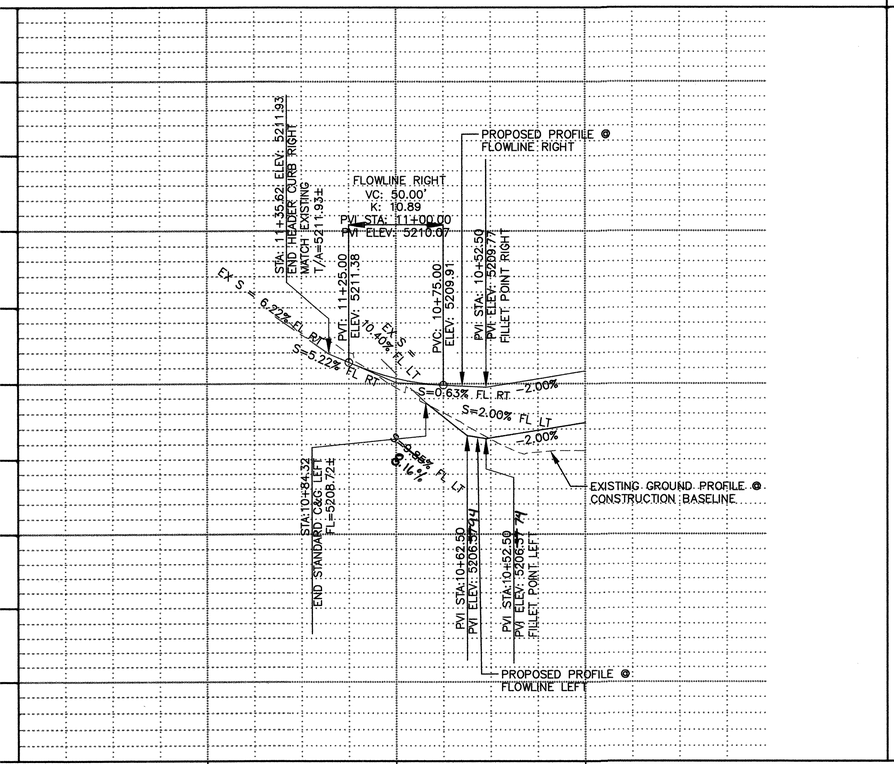
1	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
2	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
4	BUILD NEW HEADER CURB PER COA STD. DWG 2415B.
6	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
7	BUILD NEW PORTLAND CEMENT CONCRETE VALLEY GUTTER & FILLET PER COA STD. DWG. 2420.
11	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
12	EXISTING PAVEMENT TO REMAIN.
14	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
15	BUILD 2'-0" CURB AND GUTTER PER DETAIL THIS SHEET.

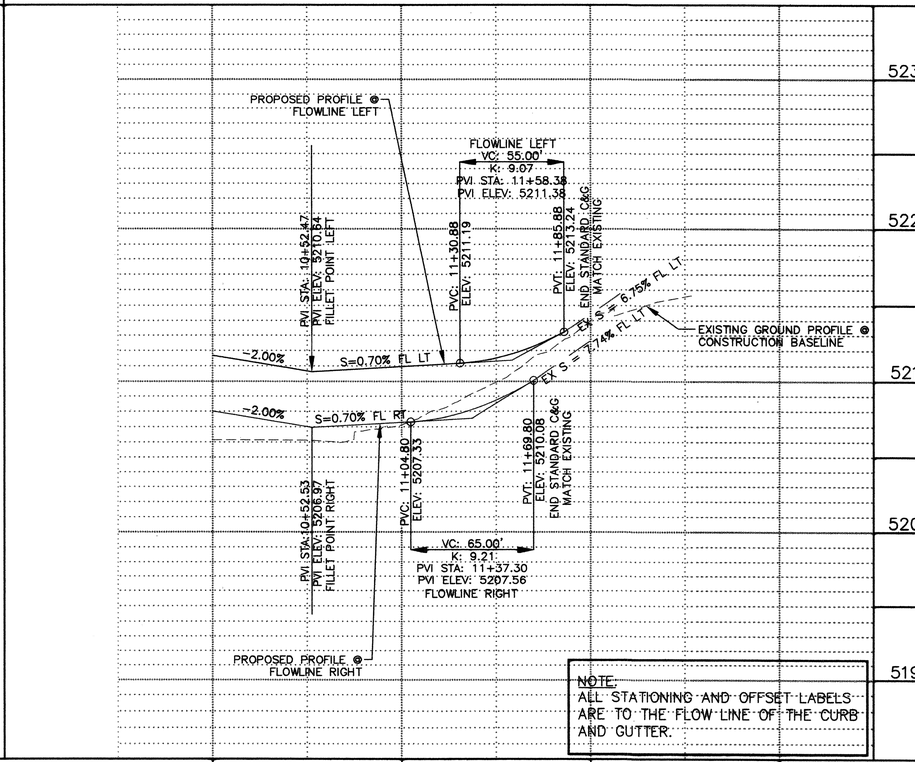
CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C81	180°00'00"	INFINITY	4.79	15.06

¼ POINT CURB RETURN DATA

NO.	TOP OF CURB	FLOW LINE
90	5206.~~86~~ 70	5205.73
91	5206.~~74~~ 58	5206.48
92	5207.~~21~~ 39	5206.96
93	52~~11.15~~ 10.92	5210.90
94	5211.~~20~~ 23	5211.21
95	5212.~~42~~ 46	5211.79





PROFILE

40' 20' 0 40' 80'
SCALE: 1" = 40'

10' 5' 0 2.5' 5'
SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING Company
NEW MEXICO TEXAS
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2301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-3376

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: **ALAMEDA BLVD. WIDENING**

AMERICAN TOYOTA & BUSINESS ENTRANCE PLAN & PROFILE

Design Review Committee	City Engineer Approval	Last Design Update
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER	

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-14	27	84

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DLA 12-2012
			SEC 12-2012
			DLA 12-2012

DESIGNED BY DLA
DRAWN BY SEC
CHECKED BY DLA

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK PERFORMED BY CARTESIAN SURVEYS, INC.
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

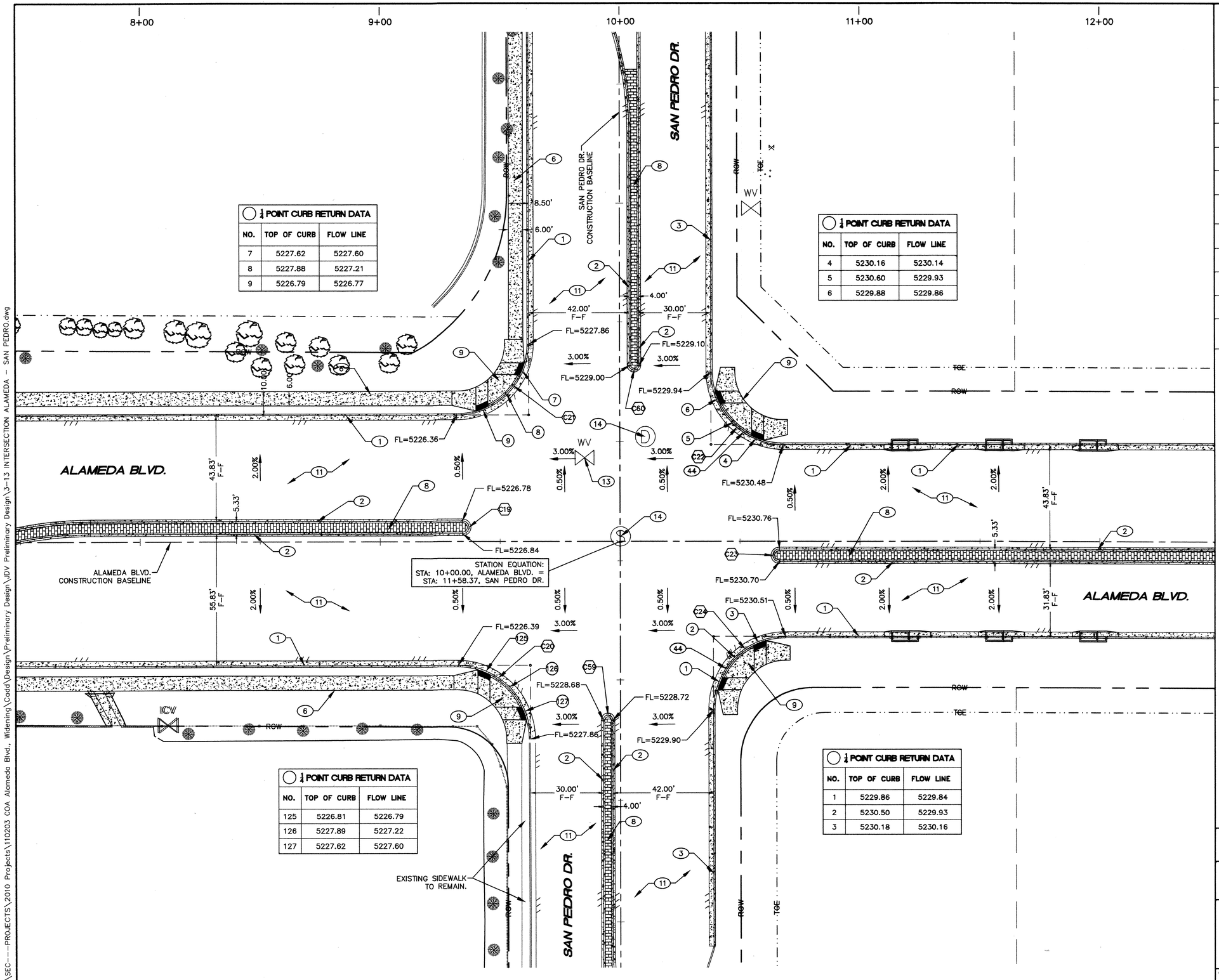
Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0.0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.080'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES BY Surveying Control, Inc. DATE 1/2010

ENGINEERS SEAL
Douglas L. Andrews
NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd, Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-X TOYOTA P&P.dwg



½ POINT CURB RETURN DATA		
NO.	TOP OF CURB	FLOW LINE
7	5227.62	5227.60
8	5227.88	5227.21
9	5226.79	5226.77

½ POINT CURB RETURN DATA		
NO.	TOP OF CURB	FLOW LINE
4	5230.16	5230.14
5	5230.60	5229.93
6	5229.88	5229.86

½ POINT CURB RETURN DATA		
NO.	TOP OF CURB	FLOW LINE
125	5226.81	5226.79
126	5227.89	5227.22
127	5227.62	5227.60

½ POINT CURB RETURN DATA		
NO.	TOP OF CURB	FLOW LINE
1	5229.86	5229.84
2	5230.50	5229.93
3	5230.18	5230.16

GENERAL NOTES

1. SEE SHEET 16 & 22 FOR CURVE DATA.

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(3)	BUILD NEW DEPRESSED CURB AND GUTTER PER COA STD. DWG 2415A.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(8)	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
(9)	BUILD ADA CURB ACCESS RAMP PER DETAIL ON SHEET 33.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(13)	ADJUST EXISTING VALVE BOX TO NEW GRADE PER COA STD. DWG. 2460.
(14)	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
(44)	TRANSITION FROM STANDARD CURB & GUTTER TO DEPRESSED CURB & GUTTER AROUND CURB RETURN.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK INSPECTED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

20' 10' 0 20' 40'
SCALE: 1" = 20'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
3301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0200
Fax: (505) 884-3376
NEW MEXICO TEXAS

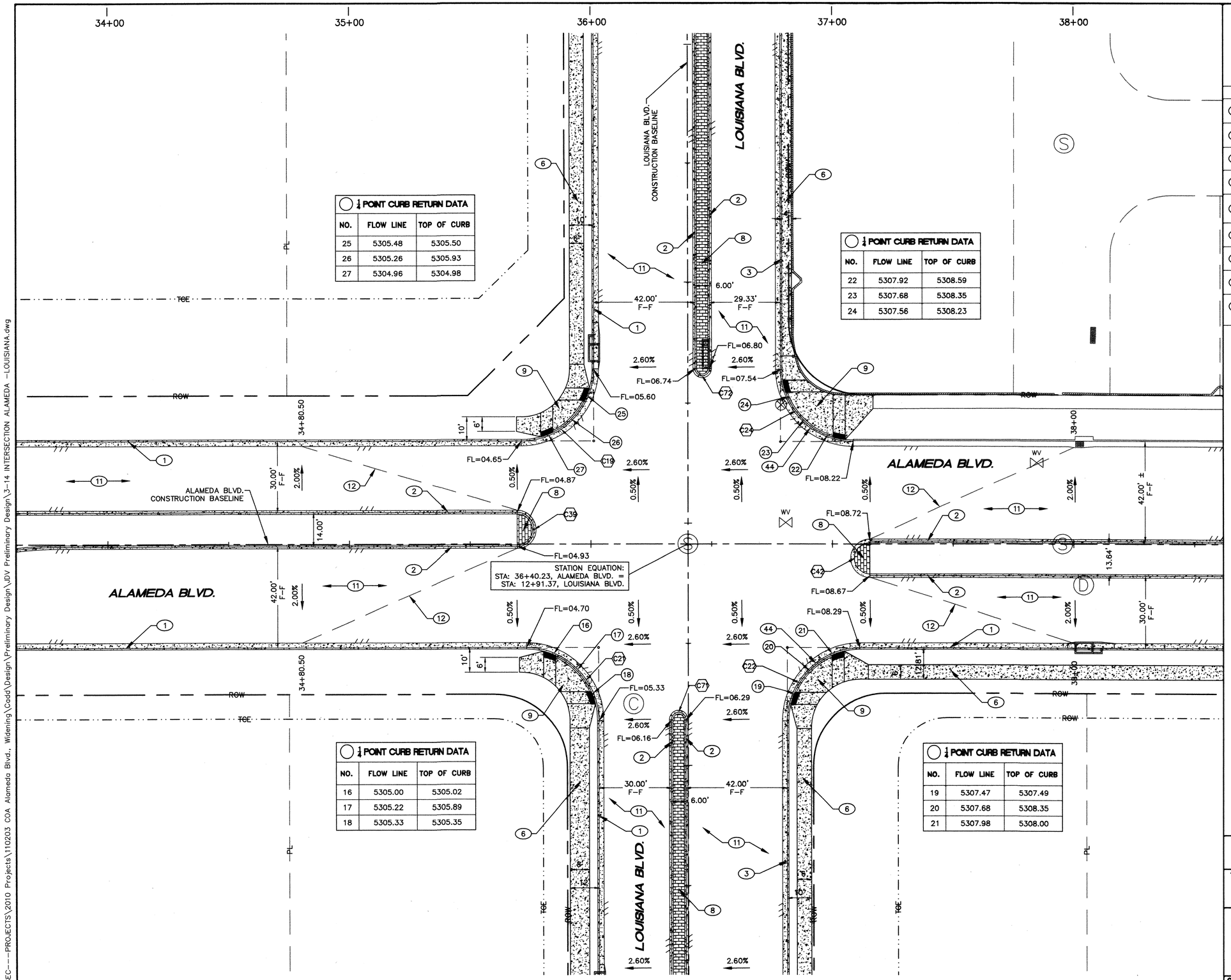
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: **ALAMEDA BLVD. WIDENING**

INTERSECTION LAYOUT PLAN - ALAMEDA BLVD. & SAN PEDRO DRIVE

Design Review Committee	City Engineer Approval		Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER				
City Project No. 7663.91	Zone Map No. C-18/C-19	Drawing No. 3-15	Sheet 28	Of 84	

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-13 INTERSECTION ALAMEDA - SAN PEDRO.dwg



¼ POINT CURB RETURN DATA

NO.	FLOW LINE	TOP OF CURB
25	5305.48	5305.50
26	5305.26	5305.93
27	5304.96	5304.98

¼ POINT CURB RETURN DATA

NO.	FLOW LINE	TOP OF CURB
22	5307.92	5308.59
23	5307.68	5308.35
24	5307.56	5308.23

¼ POINT CURB RETURN DATA

NO.	FLOW LINE	TOP OF CURB
16	5305.00	5305.02
17	5305.22	5305.89
18	5305.33	5305.35

¼ POINT CURB RETURN DATA

NO.	FLOW LINE	TOP OF CURB
19	5307.47	5307.49
20	5307.68	5308.35
21	5307.98	5308.00

GENERAL NOTES

1. SEE SHEET 19 & 24 FOR CURVE DATA.

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(3)	BUILD NEW DEPRESSED CURB AND GUTTER PER COA STD. DWG 2415A.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(8)	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
(9)	BUILD ADA CURB ACCESS RAMP DETAIL ON SHEET 33
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	BUILD CROWN TRANSITION.
(44)	TRANSITION FROM STANDARD CURB & GUTTER TO DEPRESSED CURB & GUTTER AROUND CURB RETURN.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

AS-BUILT INFORMATION

RECORDED BY

NO.	DATE

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

ENGINEER'S SEAL — DOUGLAS L. ANDREWS — NEW MEXICO — 9771 — REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE	12-2012
DRAWN BY	SEC	DATE	12-2012
CHECKED BY	DLA	DATE	12-2012

SCALE: 1" = 20'

SEC JOB # 110203

SMITH ENGINEERING Consultants — NEW MEXICO — TEXAS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2376

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

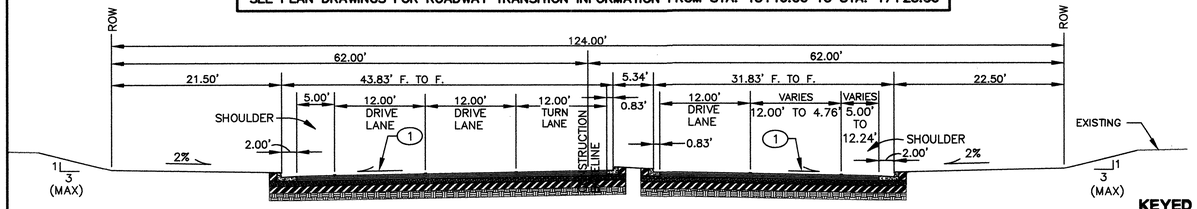
INTERSECTION LAYOUT PLAN - ALAMEDA BLVD. & LOUISIANA BLVD.

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-16	29	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-14 INTERSECTION ALAMEDA -LOUISIANA.dwg

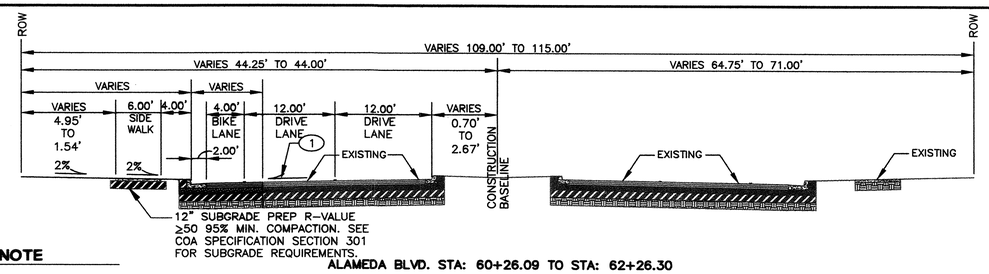
SEE PLAN DRAWINGS FOR ROADWAY TRANSITION INFORMATION FROM STA: 13+16.00 TO STA: 17+25.00



ALAMEDA BLVD. STA: 10+68.87 TO STA: 13+16.00

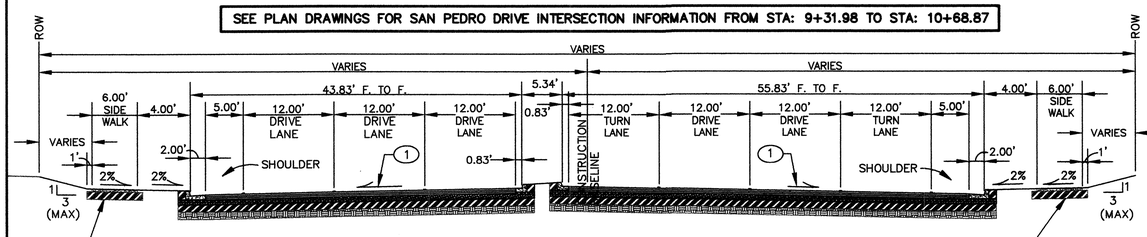
KEYED NOTE

(1) 2% UNLESS OTHERWISE SHOWN ON PLAN DRAWINGS.



ALAMEDA BLVD. STA: 60+26.09 TO STA: 62+26.30

SEE PLAN DRAWINGS FOR SAN PEDRO DRIVE INTERSECTION INFORMATION FROM STA: 9+31.98 TO STA: 10+68.87

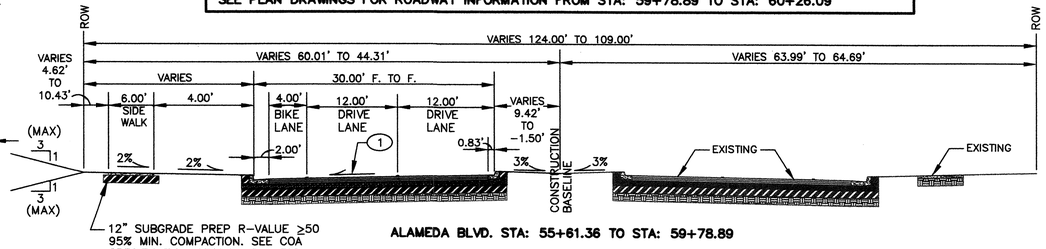


12" SUBGRADE PREP R-VALUE ≥50 95% MIN. COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS.

ALAMEDA BLVD. STA: 7+79.14 TO STA: 9+31.98

12" SUBGRADE PREP R-VALUE ≥50 95% MIN. COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS.

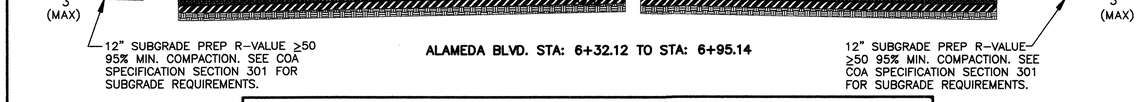
SEE PLAN DRAWINGS FOR ROADWAY INFORMATION FROM STA: 59+78.89 TO STA: 60+26.09



12" SUBGRADE PREP R-VALUE ≥50 95% MIN. COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS.

ALAMEDA BLVD. STA: 55+61.36 TO STA: 59+78.89

SEE PLAN DRAWINGS FOR MEDIAN C&G TRANSITION INFORMATION FROM STA: 6+95.14 TO STA: 7+79.14



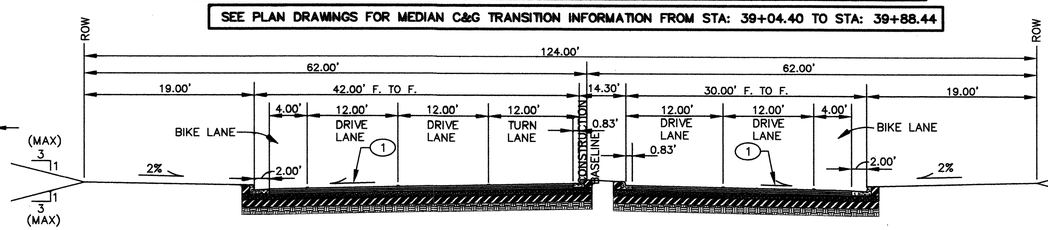
12" SUBGRADE PREP R-VALUE ≥50 95% MIN. COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS.

ALAMEDA BLVD. STA: 6+32.12 TO STA: 6+95.14

12" SUBGRADE PREP R-VALUE ≥50 95% MIN. COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS.

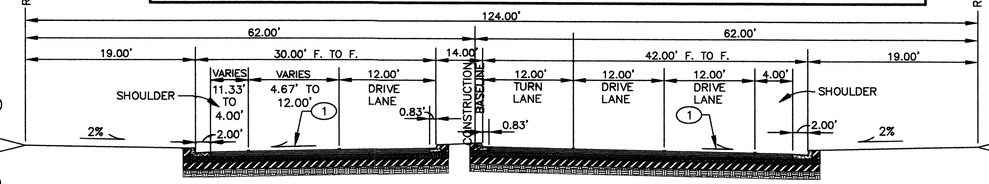
SEE PLAN DRAWINGS FOR ROADWAY TRANSITION INFORMATION FROM STA: 54+38.56 TO STA: 55+61.36

SEE PLAN DRAWINGS FOR MEDIAN C&G TRANSITION INFORMATION FROM STA: 39+04.40 TO STA: 39+88.44



ALAMEDA BLVD. STA: 37+15.49 TO STA: 39+04.40

SEE PLAN DRAWINGS FOR LOUISIANA BLVD. INTERSECTION INFORMATION FROM STA: 35+69.46 TO STA: 37+15.49

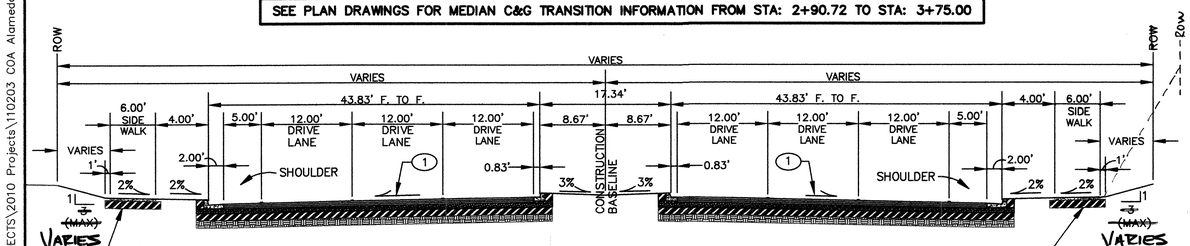


ALAMEDA BLVD. STA: 33+80.23 TO STA: 35+69.46

SEE PLAN DRAWINGS FOR MEDIAN C&G TRANSITION INFORMATION FROM STA: 32+96.23 TO STA: 33+80.23

SEE PLAN DRAWINGS FOR ROADWAY TRANSITION INFORMATION FROM STA: 29+30.00 TO STA: 32+96.23

SEE PLAN DRAWINGS FOR MEDIAN C&G TRANSITION INFORMATION FROM STA: 2+90.72 TO STA: 3+75.00



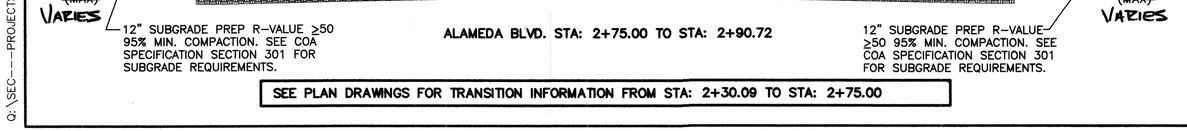
12" SUBGRADE PREP R-VALUE ≥50 95% MIN. COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS.

ALAMEDA BLVD. STA: 3+75.00 TO STA: 5+11.67

12" SUBGRADE PREP R-VALUE ≥50 95% MIN. COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS.

SEE PLAN DRAWINGS FOR INTERSECTION INFORMATION FROM STA: 5+11.67 TO STA: 6+32.12

SEE PLAN DRAWINGS FOR MEDIAN C&G TRANSITION INFORMATION FROM STA: 2+30.09 TO STA: 2+75.00

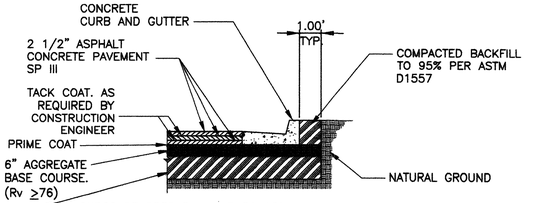


12" SUBGRADE PREP R-VALUE ≥50 95% MIN. COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS.

ALAMEDA BLVD. STA: 2+75.00 TO STA: 2+90.72

12" SUBGRADE PREP R-VALUE ≥50 95% MIN. COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS.

SEE PLAN DRAWINGS FOR TRANSITION INFORMATION FROM STA: 2+30.09 TO STA: 2+75.00



12" SUBGRADE PREP R-VALUE≥50 95% MIN COMPACTION. SEE COA SPECIFICATION SECTION 301 FOR SUBGRADE REQUIREMENTS. ALL SUBGRADE MATERIAL SHALL HAVE A MIN. R-VALUE ≥50. IF SUBGRADE SOILS ENCOUNTERED DURING CONSTRUCTION HAVE AN R-VALUE OF ≤50, THOSE SUBGRADE MATERIALS SHALL BE REMOVED TO A DEPTH OF NOT LESS THAN TWO (2) FEET BELOW THE FINISHED SUBGRADE ELEVATION AND TO THE HORIZONTAL LIMITS AUTHORIZED BY THE ENGINEER, AND REPLACED WITH SUBGRADE MATERIAL HAVING AN R-VALUE ≥50.

ASPHALT PAVEMENT SECTION

N.T.S.

SEC JOB # 110203

SMITH ENGINEERING Consultants — SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110
Phone: (505) 884-0700 Fax: (505) 884-2376
NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

TYPICAL SECTIONS & PAVING DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-17	30	84

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

BENCH MARKS
Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

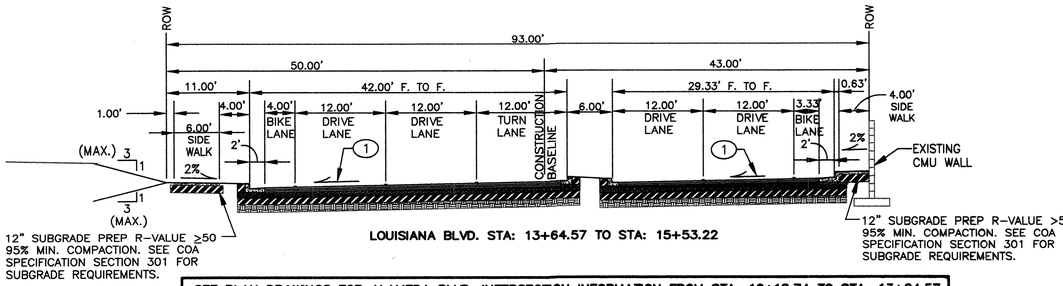
CONTRACTOR	RMCI, INC.	
WORK PERFORMED BY:	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTORS ACCEPTANCE BY	COA	DATE 7-14
CERTIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

ENGINEERS SEAL
DOUGLAS L. ANDREW — NEW MEXICO — 9373 — REGISTERED PROFESSIONAL ENGINEER
01-08-13

REMARKS / REVISIONS

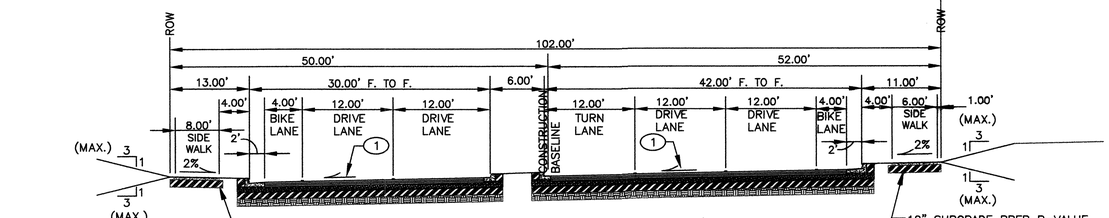
NO.	DATE	DESIGN	DATE
		DESIGNED BY DLA	12-2012
		DRAWN BY SEC	12-2012
		CHECKED BY DLA	12-2012

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design 3-15 TYPICAL SECTIONS.dwg



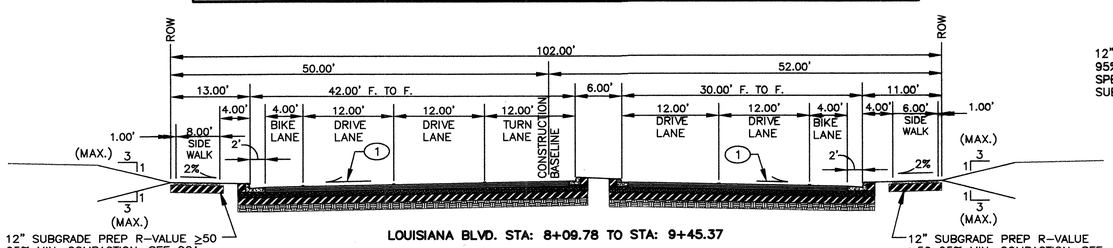
LOUISIANA BLVD. STA: 13+64.57 TO STA: 15+53.22

SEE PLAN DRAWINGS FOR ALAMEDA BLVD. INTERSECTION INFORMATION FROM STA: 12+18.74 TO STA: 13+64.57



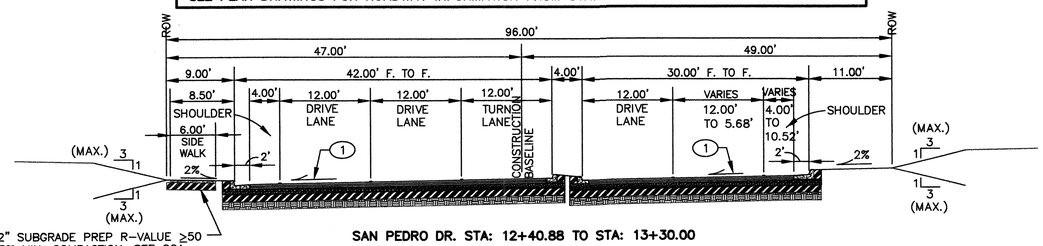
LOUISIANA BLVD. STA: 10+29.37 TO STA: 12+18.74

SEE PLAN DRAWINGS FOR MEDIAN C&G TRANSITION INFORMATION FROM STA: 9+45.37 TO STA: 10+29.37



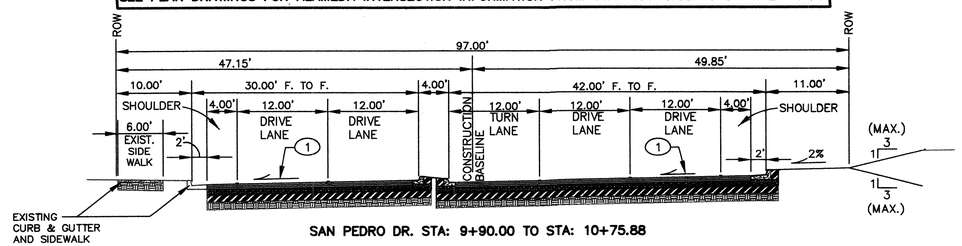
LOUISIANA BLVD. STA: 8+09.78 TO STA: 9+45.37

SEE PLAN DRAWINGS FOR ROADWAY INFORMATION FROM STA: 13+30.00 TO STA:18+00.00



SAN PEDRO DR. STA: 12+40.88 TO STA: 13+30.00

SEE PLAN DRAWINGS FOR ALAMEDA INTERSECTION INFORMATION FROM STA: 10+75.88 TO STA: 12+40.88

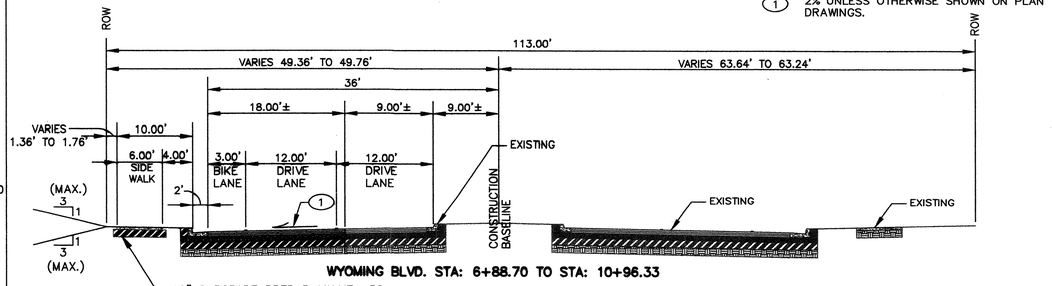


SAN PEDRO DR. STA: 9+90.00 TO STA: 10+75.88

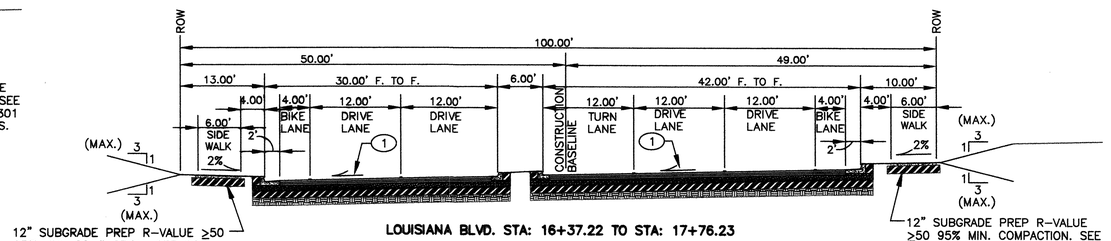
SEE PLAN DRAWINGS FOR ROADWAY INFORMATION FROM STA: 6+64.25 TO STA: 9+90.00

KEYED NOTE

(1) 2% UNLESS OTHERWISE SHOWN ON PLAN DRAWINGS.

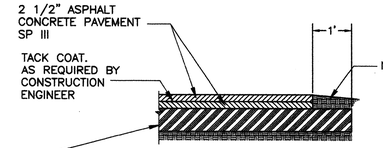


WYOMING BLVD. STA: 6+88.70 TO STA: 10+96.33



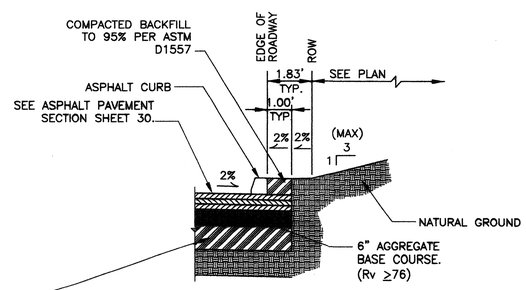
LOUISIANA BLVD. STA: 16+37.22 TO STA: 17+76.23

SEE PLAN DRAWINGS FOR ROADWAY TRANSITION INFORMATION FROM STA: 15+53.22 TO STA: 16+37.22



TEMPORARY ASPHALT PAVEMENT SECTION

N.T.S.



ASPHALT CURB PAVEMENT DETAIL

N.T.S.

SEC JOB # 110203

SMITH ENGINEERING COMPANY — NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2270 72040

SURVEY INFORMATION			BENCH MARKS	AS BUILT INFORMATION	
FIELD NOTES			Coordinates shown hereon are modified (surface)	CONTRACTOR RMCI, INC.	
NO.	BY	DATE	N.M. State Plane Coordinates – Central Zone, NAD	WORK PERFORMED BY: CARTESIAN SURVEYS, INC.	DATE 7-14
11599	Surveying Control, Inc.	1/2010	83 and were derived by scaling State Plane grid	INSPECTOR'S ACCEPTANCE BY COA	DATE 7-14
			coordinates by the project average combined factor	VERIFICATION BY COA	DATE 7-14
			of CF = 1.000334961 around an origin of 0,0.	DRAWINGS CORRECTED BY SMITH ENGINEERING CO.	DATE 7-14
			Elevations are NAVD 88, and are adjusted to the	MICRO-FILM INFORMATION	
			NGS Control Station "10-C18, 1985" (published	RECORDED BY	DATE
			elevation = 5222.090'). N:1524634.40 E:1543081.98	NO.	
			The coordinates and elevations are US Survey Feet.		

ENGINEERS SEAL — DOUGLAS L. ANDREWS — NEW MEXICO — 9771 — REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE	12-2012
DRAWN BY	SEC	DATE	12-2012
CHECKED BY	DLA	DATE	12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: **ALAMEDA BLVD. WIDENING**

TYPICAL SECTIONS & PAVING DETAILS

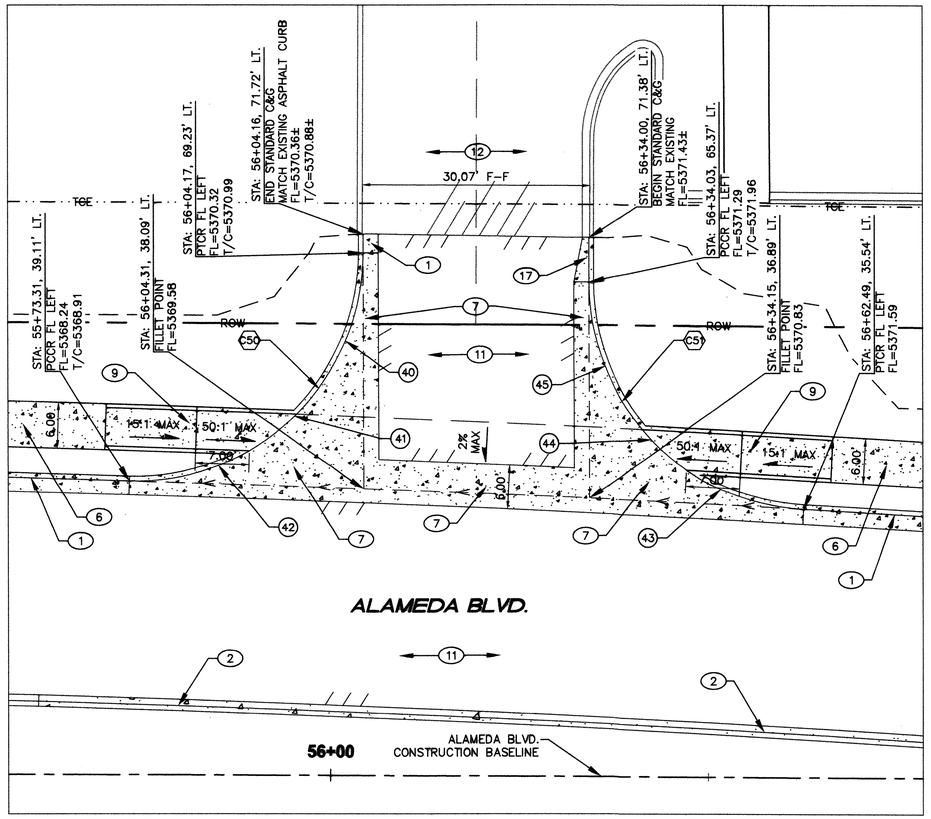
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-18	31	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-15A TYPICAL SECTIONS.dwg

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\ADV Preliminary Design\3-17 PRIVATE DRIVEWAY DETAILS 2.dwg

◯ ¼ POINT CURB RETURN DATA		
NO.	TOP OF CURB	FLOW LINE
40	5370.61	5369.94
41	5369.38	5369.36
42	5369.41	5368.74
43	5372.30	5371.63
44	5371.35	5371.33
45	5371.84	5371.17



BUSINESS DRIVEWAY

SCALE 1" = 10'

STATION 55+73.31 TO STATION 56+62.49

GENERAL NOTES

1. SEE SHEET 20 FOR CURVE DATA.

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(7)	BUILD NEW PORTLAND CEMENT CONCRETE VALLEY GUTTER & FILLET PER COA STD. DWG. 2420.
(9)	BUILD ADA CURB ACCESS RAMP PER DIMENSIONS AND SLOPES SHOWN.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	EXISTING PAVEMENT TO REMAIN.
(17)	TRANSITION FROM STANDARD CURB AND GUTTER TO MEDIAN CURB AND GUTTER.

10' 5' 0 10' 20'

SCALE: 1" = 10'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 1, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2376
NEW MEXICO TEXAS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project overage combined factor of CF = 1.000334961 around an origin of 0,0.

N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid

Elevations are NAVD 88, and are adjusted to the elevation = 5222.090'), N:1524634.40 E:1543081.98

NGS Control Station "10-C18, 1985" (published

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY:	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL

DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

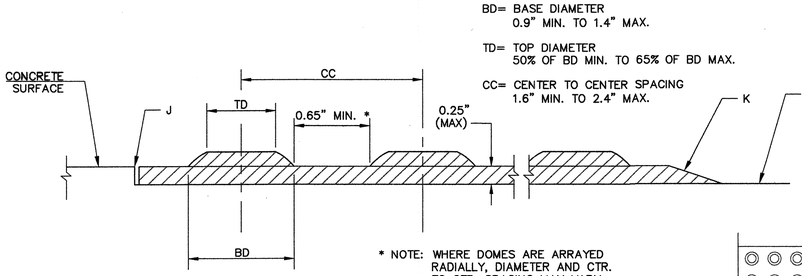
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

PRIVATE DRIVEWAY DETAILS

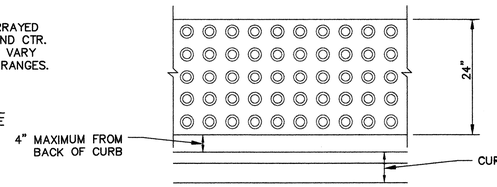
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVE JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVE JAN 11 2013 CITY ENGINEER			

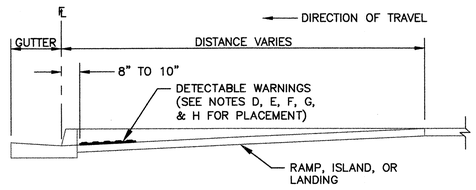
City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-19	32	84



DOME SIZE AND SPACING

SCALE: NONE

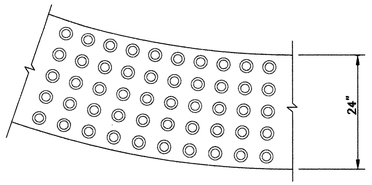




PLACEMENT

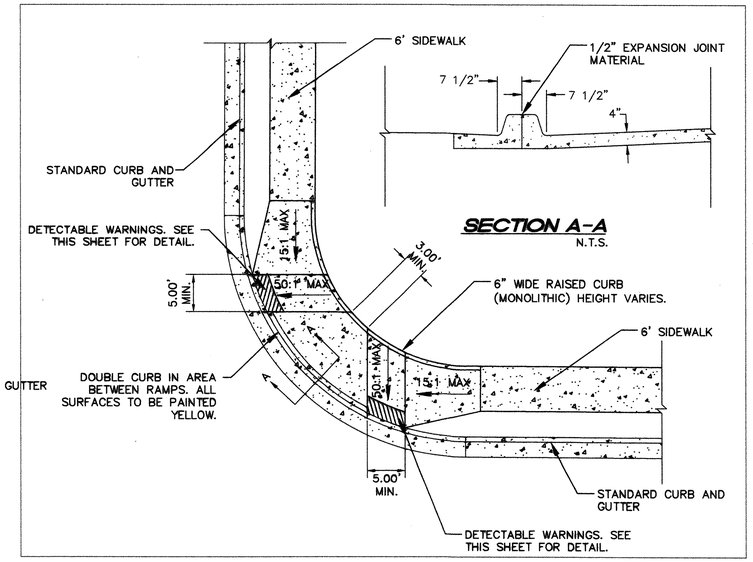
SCALE: NONE

NOTE:
DETECTABLE WARNING SURFACE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.



PLAN VIEW

SCALE: NONE



SECTION A-A

N.T.S.

CURB ACCESS RAMP DETAIL

SCALE 1" = 10'

GENERAL NOTES

1. PROVIDE DETECTABLE WARNINGS ON ANY CURB RAMP OR LANDING WHERE ACCESSIBLE ROUTE CROSSES A ROADWAY. DETECTABLE WARNINGS ARE NOT REQUIRED AT DRIVEWAYS UNLESS THE DRIVEWAY IS PROVIDED WITH TRAFFIC CONTROL DEVICES OR IS PERMITTED TO OPERATE LIKE A PUBLIC STREET AS DETERMINED BY THE CITY ENGINEER.
2. SELECT A DETECTABLE WARNING SURFACE THAT CONTRASTS VISUALLY (LIGHT-ON-DARK OR DARK-ON-LIGHT) WITH ADJACENT SURFACES.
3. IN NEW CONSTRUCTION, INSTALL CAST-IN-PLACE DETECTABLE WARNING PLATES, PANELS, TILES, OR PAVERS. IN RETROFITS, INSTALL SURFACE-APPLIED DETECTABLE WARNING PANELS WITH BEVELED EDGES.

CONSTRUCTION NOTES

A. INSTALL DETECTABLE WARNING SURFACE SO THAT IT EXTENDS 24" IN THE DIRECTION OF TRAVEL FOR THE FULL WIDTH (NOT INCLUDING SIDE FLARES) OF THE RAMP OR LANDING.

B. PLACE DETECTABLE WARNINGS SO THAT THE ROWS OF TRUNCATED DOMES ARE ALIGNED PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP OR LANDING AND THE ROADWAY.

C. ON PERPENDICULAR CURB RAMPS, IF BOTH ENDS OF THE BOTTOM GRADE BREAK ARE 5' OR LESS FROM THE BACK OF CURB, PLACE DETECTABLE WARNINGS ON THE RAMP SURFACE AT THE GRADE BREAK. IF EITHER END OF THE BOTTOM GRADE BREAK IS GREATER THAN 5' FROM THE BACK CURB, PLACE DETECTABLE WARNINGS ON THE LOWER LANDING.

D. ON LANDINGS, PLACE DETECTABLE WARNINGS AT THE BACK OF CURB.

E. ON CUT-THROUGH ISLANDS, PLACE DETECTABLE WARNINGS IN LINE WITH THE BACK OF CURB IF DETECTABLE WARNING SURFACES ON THE ENTRANCE AND EXIT SIDES OF THE ISLAND CAN BE SEPARATED BY 2' MIN. OF WALKWAY. IF NECESSARY TO ACHIEVE 2' MIN. SEPARATION, PLACE DETECTABLE WARNINGS IN LINE WITH THE FACE OF CURB. IF THE ISLAND HAS NO CURB, PLACE DETECTABLE WARNINGS AT THE EDGE OF ROADWAY.

F. PLACE DETECTABLE WARNINGS AT RAIL CROSSINGS SO THAT THE EDGE NEAREST THE RAIL IS 6' TO 15' FROM THE CENTERLINE OF THE NEAREST RAIL. ALIGN ROWS OF TRUNCATED DOMES PARALLEL TO THE DIRECTION OF TRAVEL.

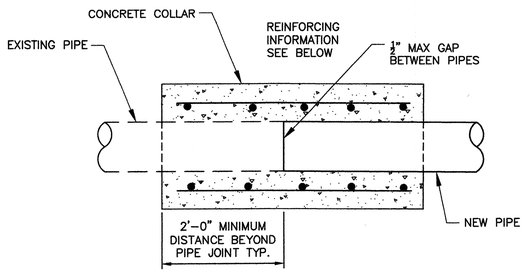
J. RECESS OR CAST-IN DETECTABLE WARNINGS SO THAT THE SURFACE TO WHICH THE TRUNCATED DOMES ARE ATTACHED IS FLUSH WITH THE ADJACENT CONCRETE.

K. IN RETROFITS, DETECTABLE WARNING MAT MAY BE BONDED TO THE SURFACE OF THE CONCRETE IF THE MAT EDGE IS BEVELED WITH A MAXIMUM SLOPE OF 2H:1V.

L. 15H:1V MAX. SLOPE.

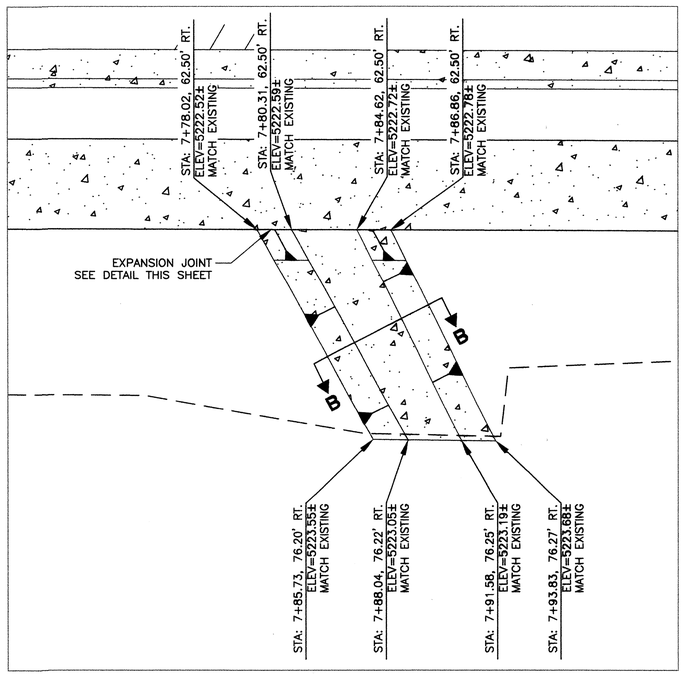
DETECTABLE WARNING SURFACE DETAIL

SCALE: NONE



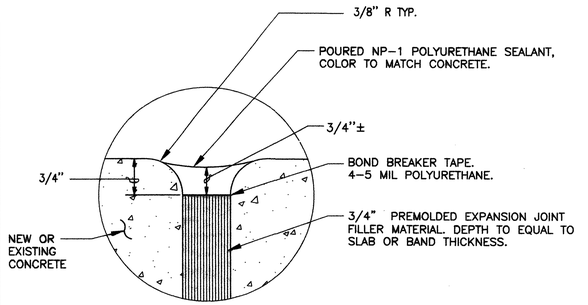
CONCRETE COLLAR DETAIL

NOT TO SCALE



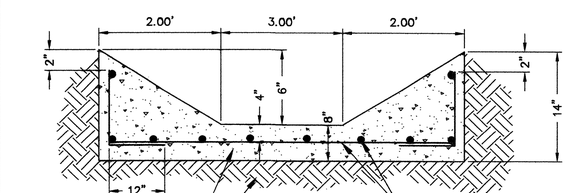
CONCRETE RUNDOWN DETAIL

SCALE 1" = 5'



EXPANSION JOINT (EJ)

NOT TO SCALE



PORTLAND CEMENT CONCRETE. ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED 4,000 PSI @ 28 DAYS PER COA STD SPECS.

12" SUBGRADE COMPACTION @ 95% ASTM D-1557

#5 @ 12" O.C. EACH WAY. REBAR SUPPORTED BY SAND CHAIRS. NO BLOCK OR BRICK SUPPORTS ARE ALLOWED. DISCONTINUE STEEL AT EXPANSION JOINTS.

NOTE:
24" MIN. REBAR OVERLAP TYPICAL.

SECTION B-B

N.T.S

SEC JOB # 110203

SMITH ENGINEERING Company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-7376
NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
STANDARD DETAILS

Design Review Committee	City Engineer Approval		Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER				

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-20	33	84

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

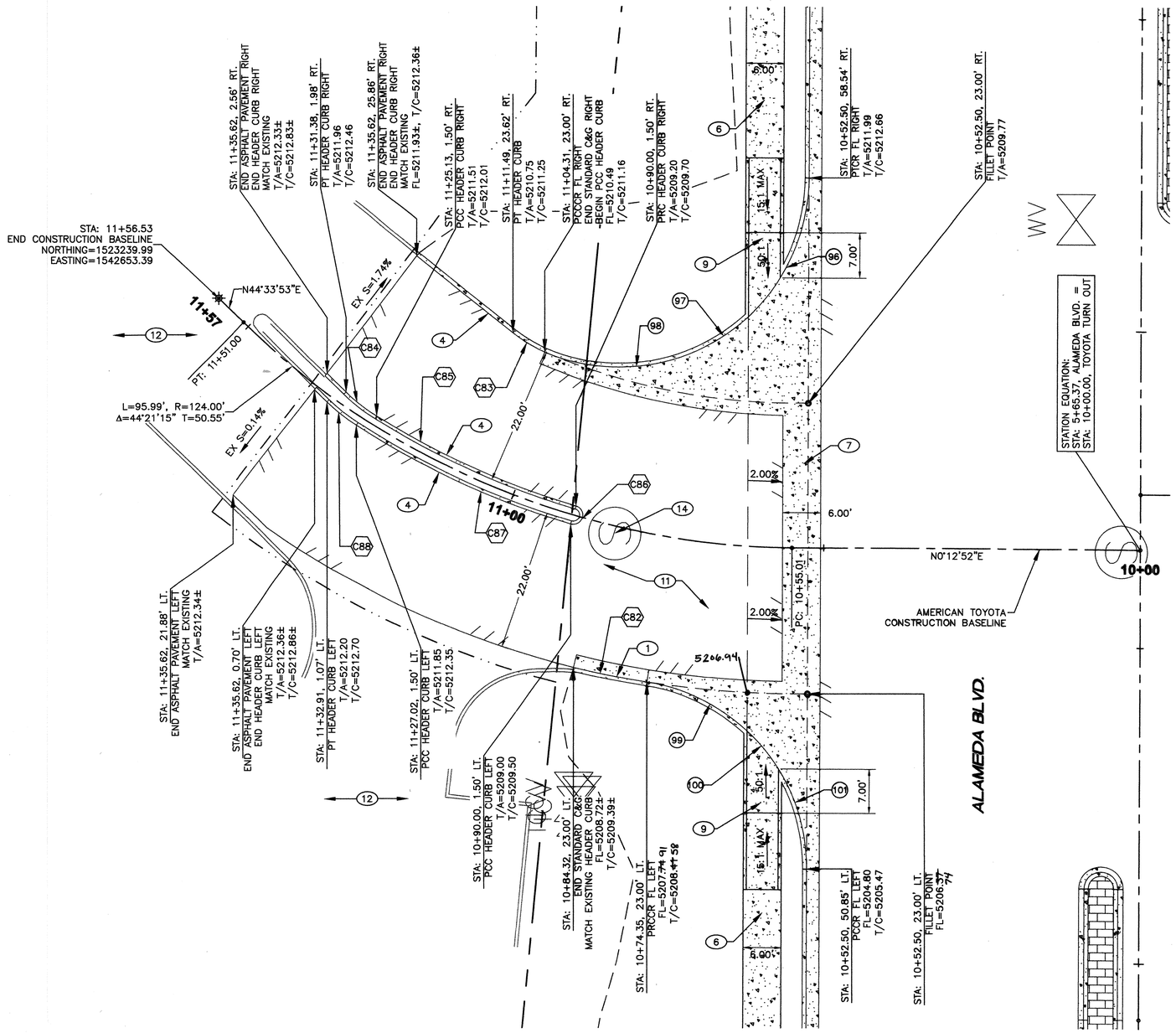
CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTORS ACCEPTANCE BY	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14
RECORDED BY		DATE
NO.		

MICRO-FILM INFORMATION

ENGINEERS SEAL — DOUGLAS L. ANDREWS — NEW MEXICO — 9779 — REGISTERED PROFESSIONAL ENGINEER
Douglas L. Andrews
01-28-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-21 STANDARD DETAILS.dwg



AMERICAN TOYOTA TURN OUT

KEYED NOTES

(1)	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
(4)	BUILD NEW HEADER CURB PER COA STD. DWG 2415B.
(6)	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
(7)	BUILD NEW PORTLAND CEMENT CONCRETE VALLEY GUTTER & FILLET PER COA STD. DWG. 2420.
(9)	BUILD ADA CURB ACCESS RAMP PER DIMENSIONS AND SLOPES SHOWN.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30.
(12)	EXISTING PAVEMENT TO REMAIN.
(14)	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C82	4°36'36"	5.92	147.00	11.83
C83	15°29'01"	2.96	21.75	5.88
C84	13°27'30"	3.11	26.37	6.19
C85	16°14'03"	17.47	122.50	34.71
C86	180°00'00"	INFINITY	1.50	4.71
C87	17°06'13"	18.87	125.50	37.46
C88	11°03'14"	3.00	31.00	5.98

¼ POINT CURB RETURN DATA

NO.	TOP OF CURB	FLOW LINE
96	5211.77	5211.10
97	5211.06	5210.39
98	5210.86	5210.19
99	5207.~~51~~96	5206.~~84~~ 7.29
100	5206.~~15~~33	5206.~~13~~31
101	5206.~~24~~21	5205.~~57~~54

10' 5' 0 10' 20'
SCALE: 1" = 10'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (866) 884-0700
Fax: (866) 884-3376
NEW MEXICO TEXAS

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY SURVTEK SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
11599 Surveying Control, Inc. 1/2010

The coordinates and elevations are US Survey Feet.

ENGINEER'S SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS / REVISIONS	BY
		DESIGN	DLA
		DATE	12-2012
		DESIGNED BY	DLA
		DRAWN BY	SEC
		CHECKED BY	DLA

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

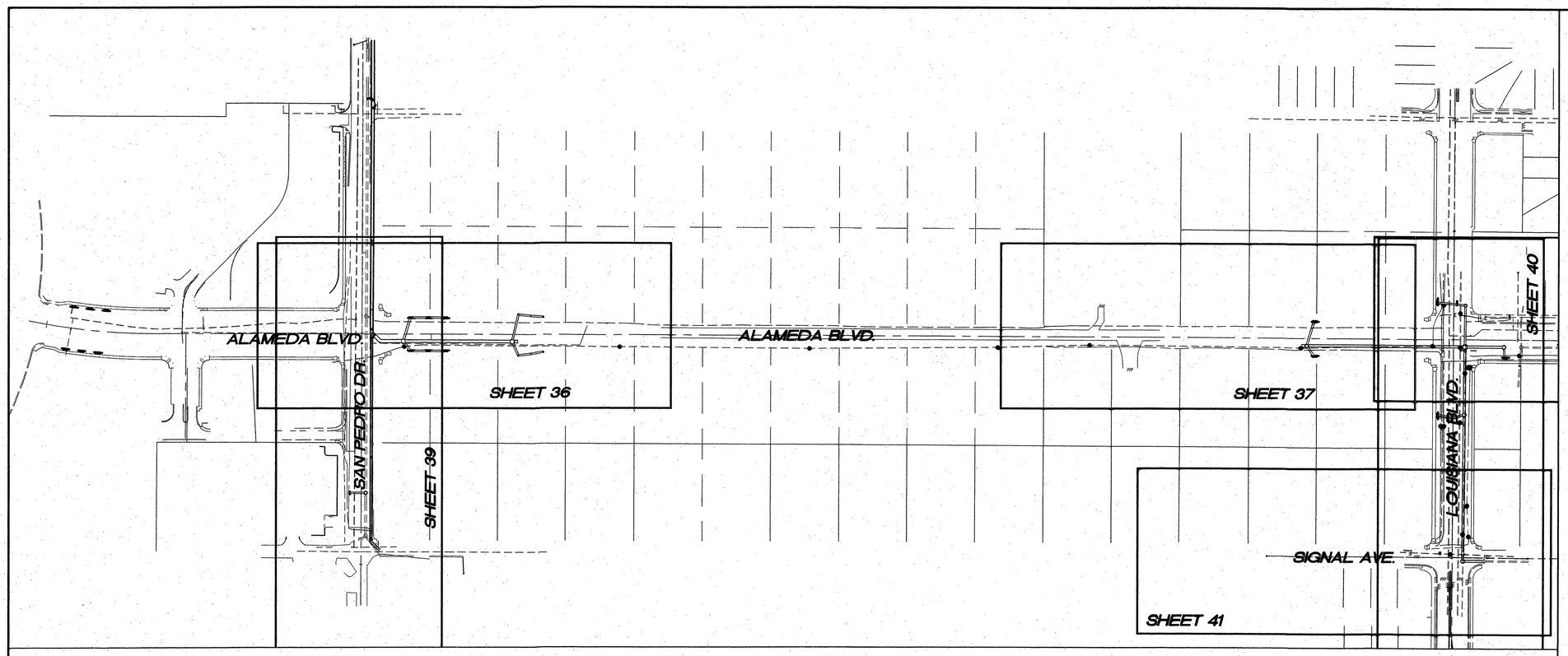
TITLE: ALAMEDA BLVD. WIDENING
AMERICAN TOYOTA PLAN

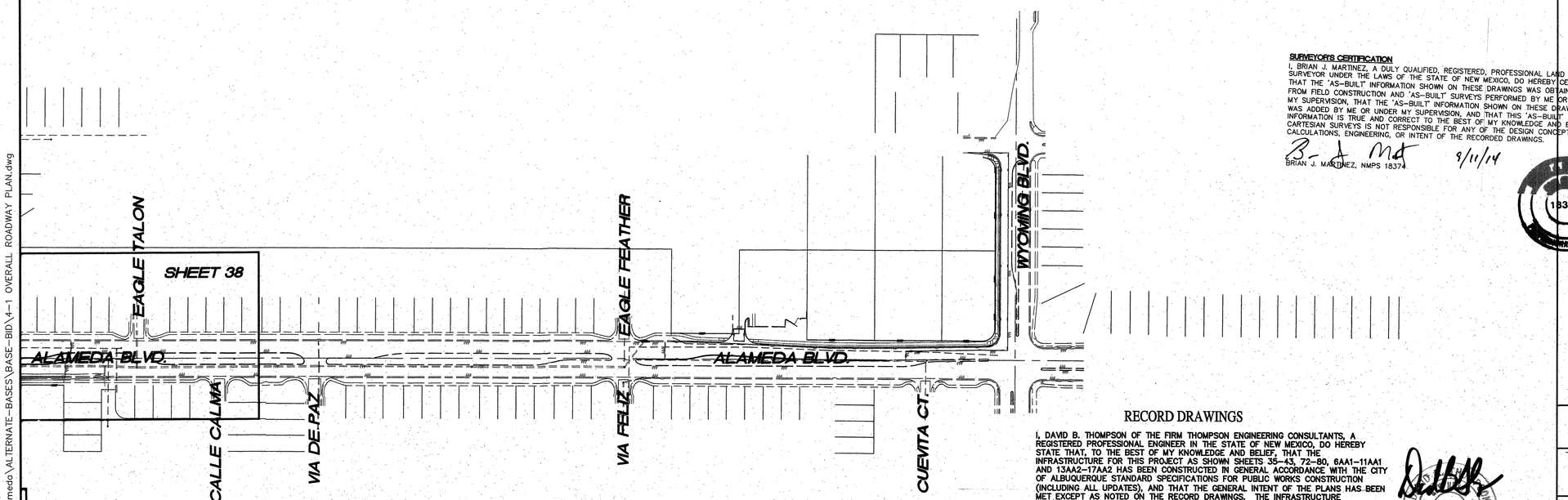
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update
No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-21	34	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd, Widening\Codd\Design\Preliminary Design\JDV Preliminary Design\3-X AMERICAN TOYOTA.dwg

RECORD DRAWINGS





Y:\PROJECTS\COA Alameda\ALTERNATE-BASES\BASE-BID\4-1 OVERALL ROADWAY PLAN.dwg

SURVEYOR'S CERTIFICATION

I, BRIAN J. MARTINEZ, A DULY QUALIFIED, REGISTERED, PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND "AS-BUILT" SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT THE "AS-BUILT" INFORMATION SHOWN ON THESE DRAWINGS WAS ADDED BY ME OR UNDER MY SUPERVISION, AND THAT THIS "AS-BUILT" INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. CARTESIAN SURVEYS IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORDED DRAWINGS.

BRIAN J. MARTINEZ, NMPS 18374 — 9/11/14

RECORD DRAWINGS

I, DAVID B. THOMPSON OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE INFRASTRUCTURE FOR THIS PROJECT AS SHOWN SHEETS 35-43, 72-80, 6AA1-11AA1 AND 13AA2-17AA2 HAS BEEN CONSTRUCTED IN GENERAL ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (INCLUDING ALL UPDATES), AND THAT THE GENERAL INTENT OF THE PLANS HAS BEEN MET EXCEPT AS NOTED ON THE RECORD DRAWINGS. THE INFRASTRUCTURE CONSTRUCTION HAS BEEN OBSERVED BY A QUALIFIED PERSON FROM THE CITY OF ALBUQUERQUE AND THIS STATEMENT COVERS INFRASTRUCTURE INSTALLATION THAT WAS OBSERVED WHILE A REPRESENTATIVE FROM THE CITY OF ALBUQUERQUE WAS ON SITE. THIS STATEMENT IS BASED ON SITE OBSERVATIONS BY CITY OF ALBUQUERQUE PERSONNEL AND ON AS-BUILT INFORMATION PROVIDED TO THOMPSON ENGINEERING CONSULTANTS, INC. BY BRIAN J. MARTINEZ (SURVEYOR'S NAME) NMPS NUMBER 18374 (PS#).

9-29-14

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

FIELD VERIFICATION BY SMITH DATE 7-14

DRAWINGS CHECKED BY ENGINEERING DIV. DATE 7-14

RECORDED BY DATE

NO.

MICRO-FILM INFORMATION

ENGINEERS SEAL

DAVID B. THOMPSON — NEW MEXICO — 9677 — LICENSED PROFESSIONAL ENGINEER

1-4-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DBT DATE 12-2012

DRAWN BY DEM DATE 12-2012

CHECKED BY DBT DATE 12-2012

18374 — PROFESSIONAL SURVEYOR

N

150' 75' 0 150' 300'

SCALE: 1" = 150'

Thompson Engineering Consultants, Inc.

tecnm@yahoo.com

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE:

ALAMEDA BLVD. WIDENING

OVERALL STORM DRAIN IMPROVEMENT PLAN

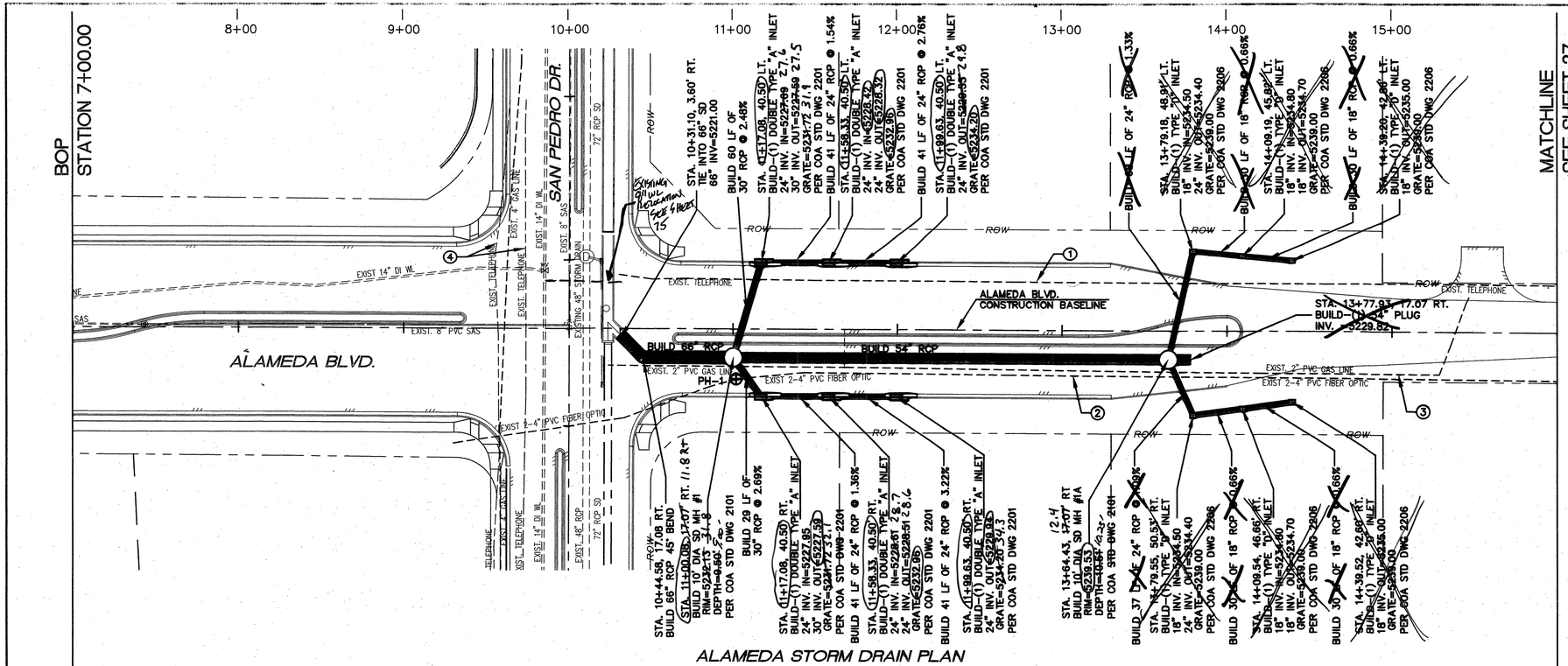
Design Review Committee: APPROVED — DEC 12 2013 — DRB REVIEW COMMITTEE

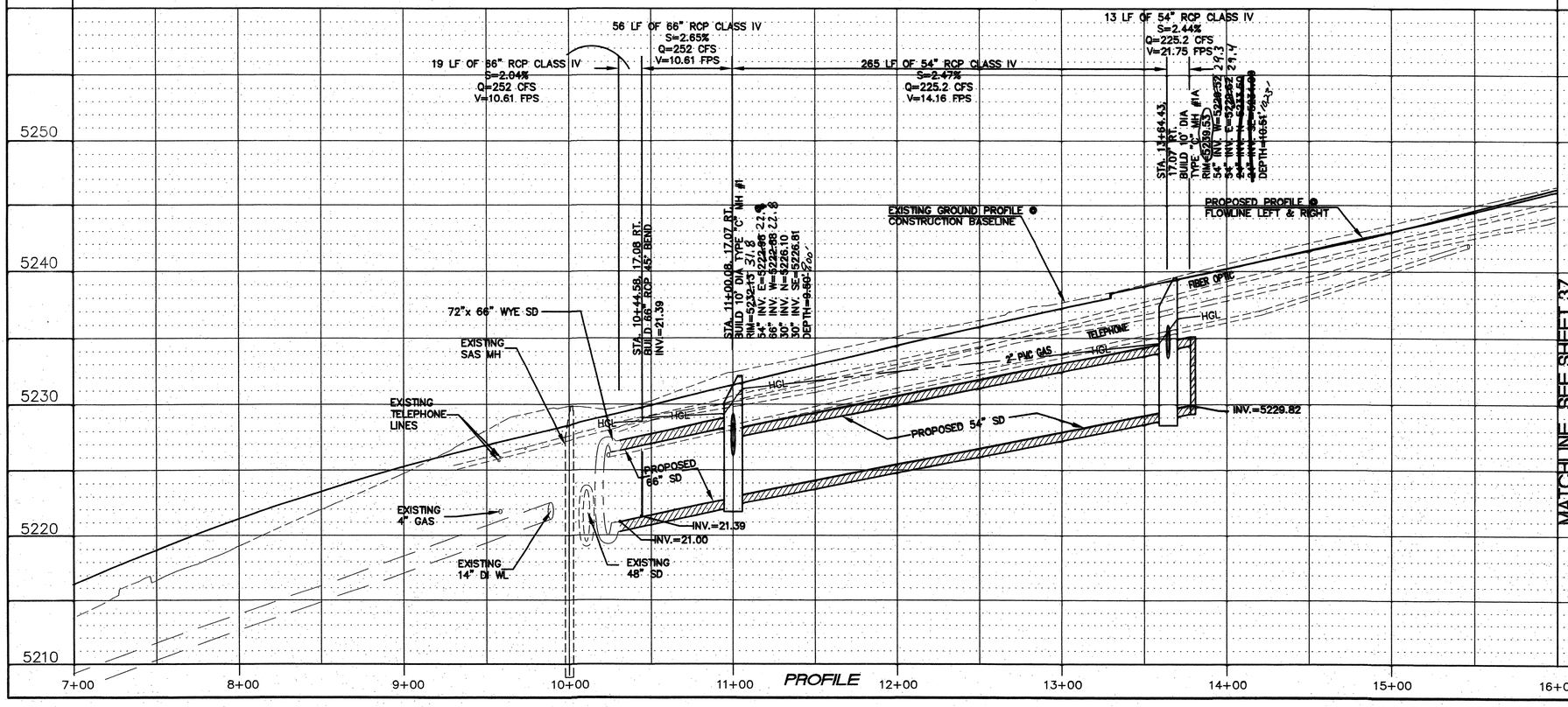
City Engineer Approval: APPROVED — JAN 13 2014 — CITY ENGINEER

Last Design Update: No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-1	35	84

RECORD DRAWINGS





KEYED NOTES:

1. EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.
2. EXISTING 2-4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.
3. EXISTING 2" PVC GAS LINE TO BE RELOCATED BY GAS CO. OF N.M.
4. EXISTING TELEPHONE LINE TO BE RELOCATED BY CENTURYLINK.

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-1	5230.33	FIBER OPT.	PVC	2-4"

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:

HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.

SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

BENCH MARKS

Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone,
NAD 83 and were derived by scaling State
Plane grid coordinates by the project average
combined factor of CF = 1.000334961 around
an origin of 0,0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "10-C18,
1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
CHECKED BY CHRISTIAN
STAKED BY SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
AS-BUILT INFORMATION CORRECTED BY ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEERS SEAL
DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DBT	DATE 12-2012
		DRAWN BY DEM	DATE 12-2012
		CHECKED BY DBT	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

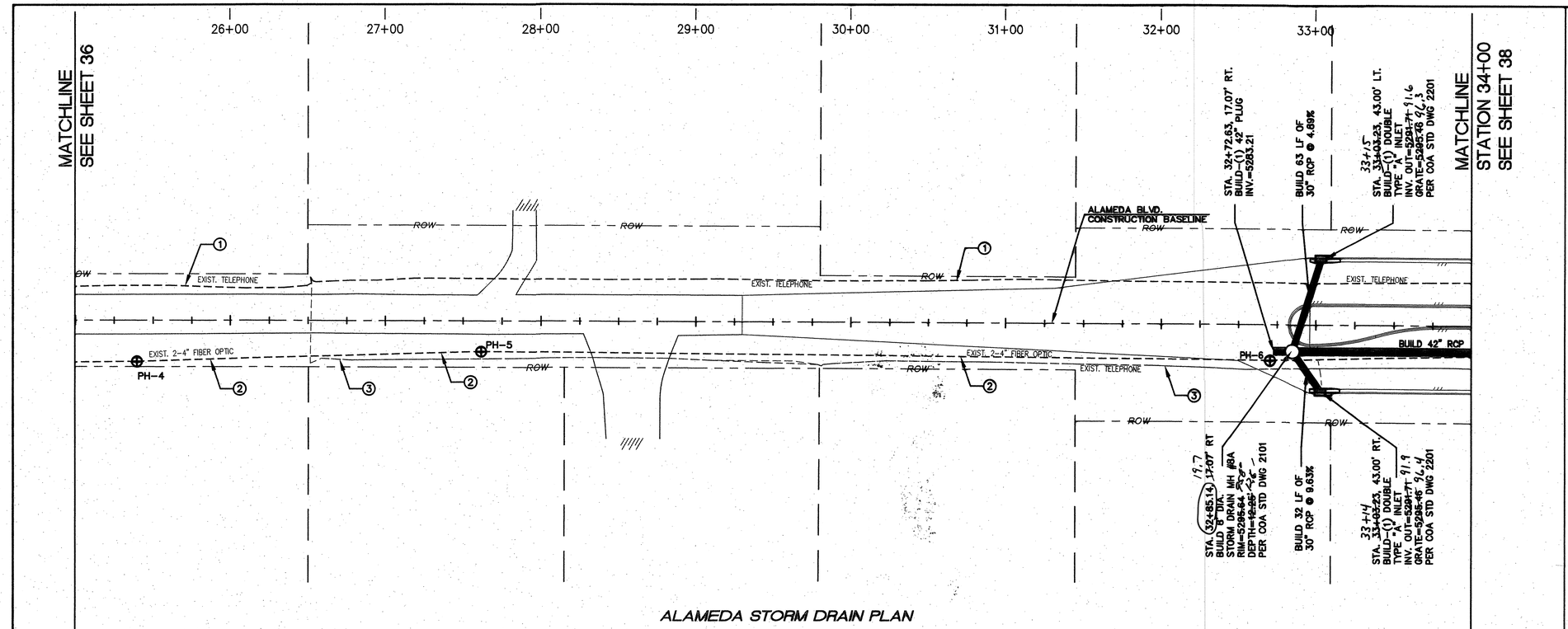
TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 7+00.00 TO STA. 16+00

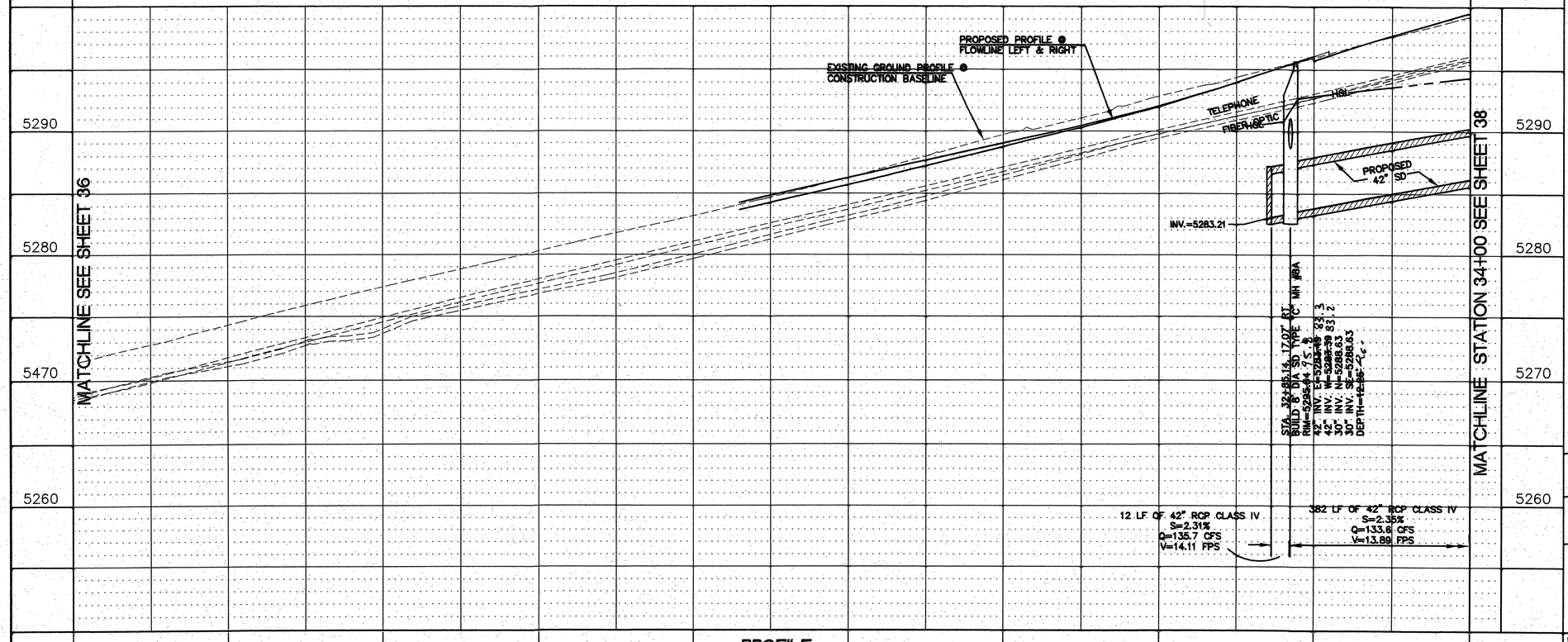
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update
No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-2	36	84

RECORD DRAWINGS



ALAMEDA STORM DRAIN PLAN



PROFILE

KEYED NOTES:

① EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.

② EXISTING 2-4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.

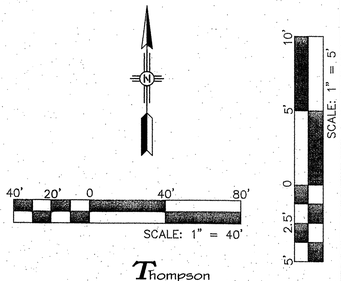
③ EXISTING TELEPHONE LINE TO BE TO BE RELOCATED BY CENTURYLINK.

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-4	5268.52	FIBER OPT	PVC	2-4"
PH-5	5276.51	FIBER OPT	PVC	2-4"
PH-6	5291.91	FIBER OPT	PVC	2-4"

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:
HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.



Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY SMITH ENGINEERING CO. DATE 7-14
DRAWINGS CORRECTED BY MICRO-FILM INFORMATION DATE 7-14
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface).
N.M. State Plane Coordinates - Central Zone.
NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES
NO. 11599 BY SURVEYING CONTROL INC. DATE 11-2010

ENGINEERS SEAL
DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER
1-4-13

REVISIONS
NO. DATE BY REMARKS
DESIGNED BY DBT DATE 12-2012
DRAWN BY DEM DATE 12-2012
CHECKED BY DBT DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

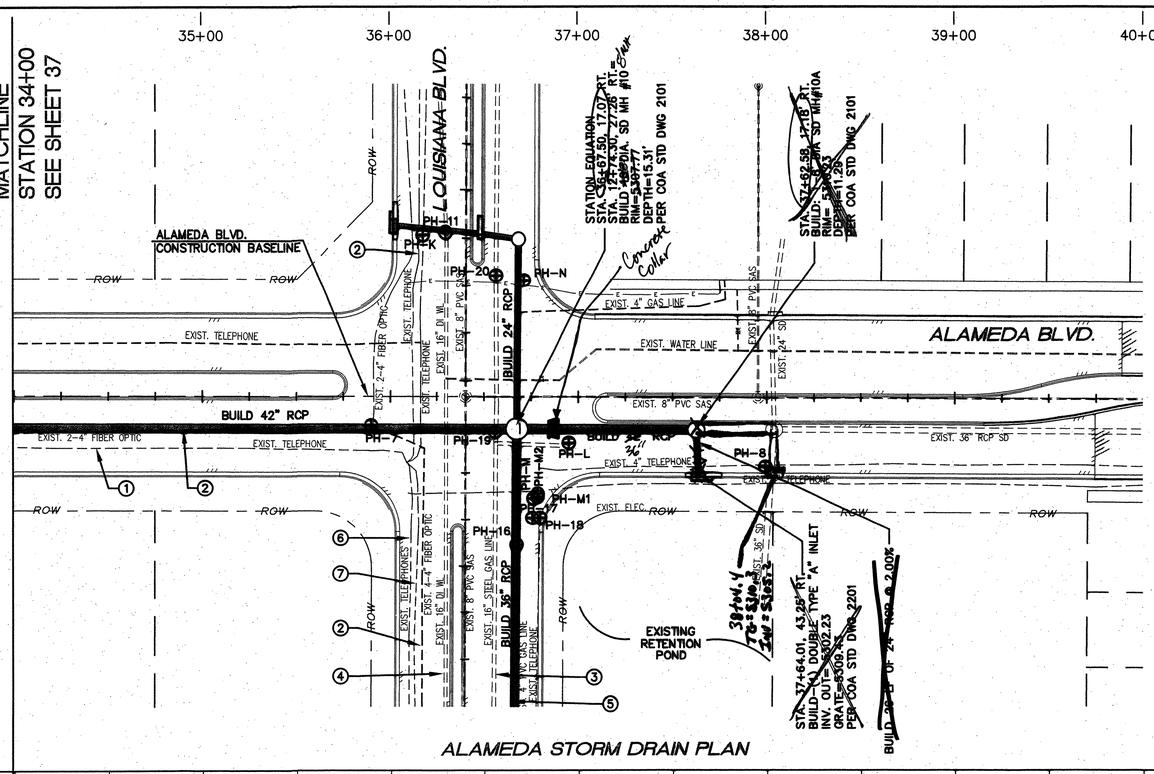
ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 25+00 TO STA. 34+00

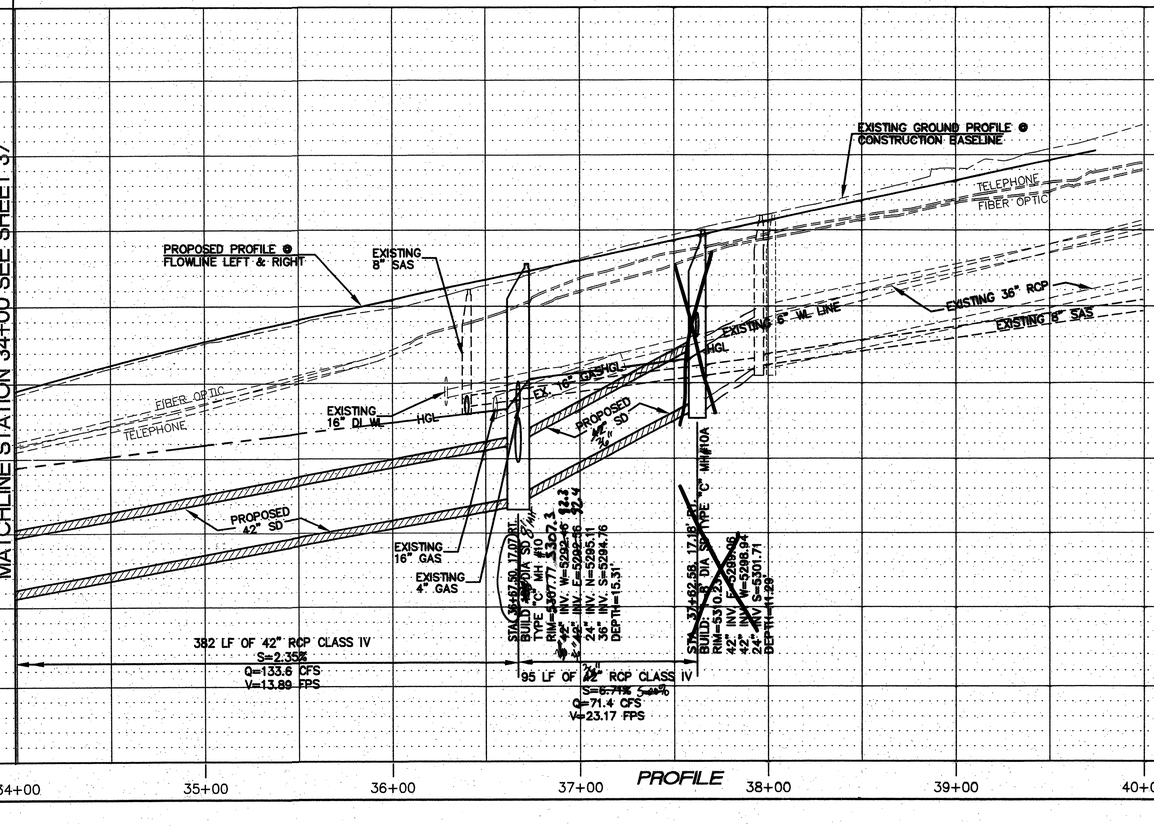
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-3	37	84

RECORD DRAWINGS





KEYED NOTES:

1. EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.
2. EXISTING 4" PVC FIBER OPTIC LINE TO BE RELOCATED BY CENTURYLINK.
3. CONTRACTOR TO PROTECT EXISTING 16" GAS LINE
4. CONTROCTOR TO PROTECT EXISTING 16" WATER LINE
5. EXISTING 4" GAS LINE TO BE RELOCATED BY NMGASCO.
6. EXISTING TELEPHONE LINE TO BE RELOCATED BY CENTURYLINK.
7. EXISTING OVERHEAD POWER LINES TO BE RELOCATED BY PNM

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-7	5301.36	FIBER OPT	PVC	2-4"
PH-8	5306.79	TELEPHONE	PVC	4"
PH-11	5302.64	TELEPHONE	PVC	3-3"
PH-16	5303.11	GAS	PVC	4"
PH-17	5304.56	TELEPHONE	PVC	0.20'
PH-18	5304.71	TELEPHONE	PVC	0.10'
PH-19	5299.15	GAS	PVC	4"
PH-20	5298.19	GAS	STEEL	16"
PH-E	5311.23	GAS	PE	0.18'
PH-K	5302.12	WATER	IRON	16"
PH-L	5301.20	GAS	STEEL	14"
PH-M	5308.96	ELECTRIC	PVC	4"
PH-M1	5304.48	TELEPHONE	CABLE	0.18'
PH-M2	5305.21	GAS	PE	0.18'
PH-N	5302.55	ELECTRIC	(2) CABLES	0.18'

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:
HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.

SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION

	CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE	7-14
ACCEPTANCE INSPECTION BY	COA	DATE	7-14
FIELD VERIFICATION BY	COA	DATE	7-14
DRAWINGS SUBMITTED BY	SMITH ENGINEERING CO.	DATE	7-14
CORRECTED BY		DATE	
RECORDED BY		DATE	

MICRO-FILM INFORMATION

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface).
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project overage combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

ENGINEERS SEAL

DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DBT 12-2012
		DESIGNED BY	DBT 12-2012
		DRAWN BY	DEM 12-2012
		CHECKED BY	DBT 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

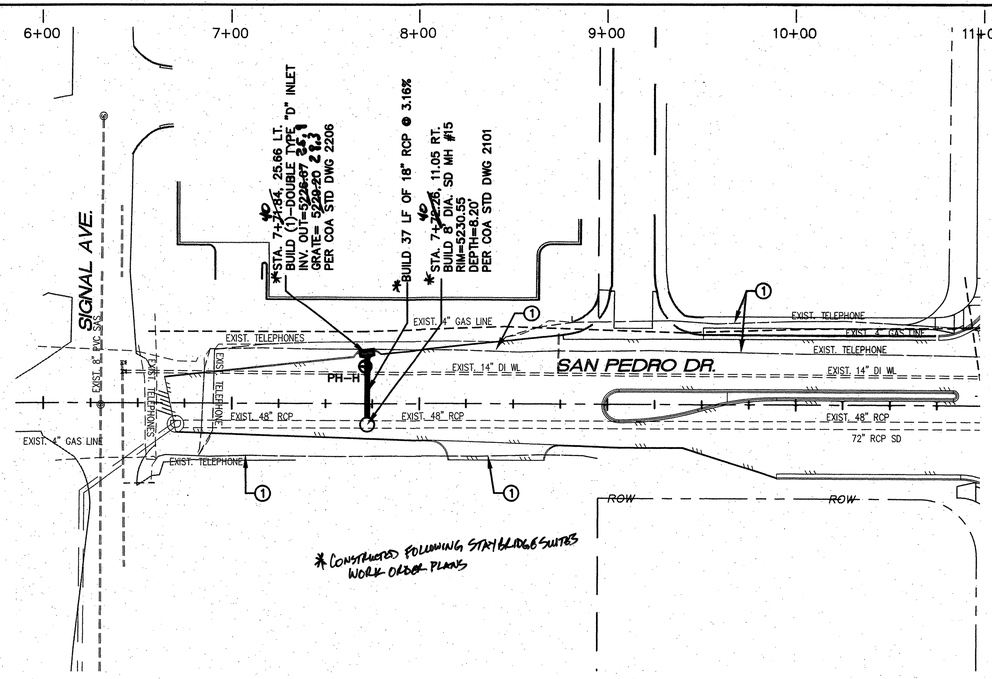
TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 34+00 TO STA. 40+00

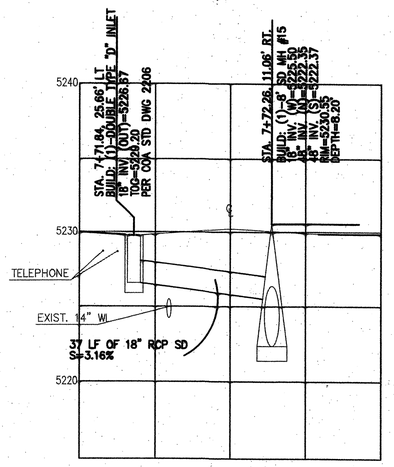
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-4	38	84

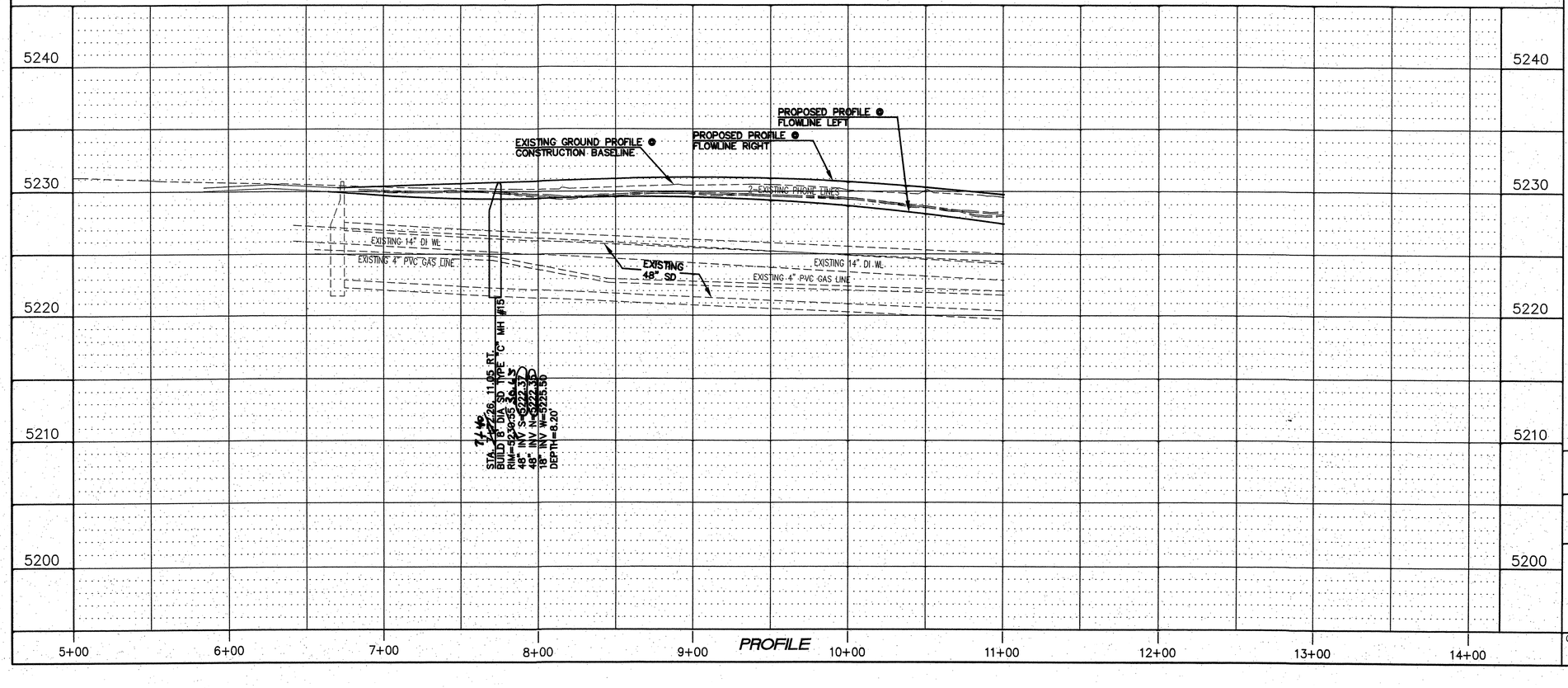
RECORD DRAWINGS



SAN PEDRO STORM DRAIN PLAN



SAN PEDRO DRAIN LATERAL
STA. 7+72.26, 11.06' RT.
SCALE: 1"=20'



KEYED NOTES:

1. EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.
2. EXISTING 2-4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.
3. EXISTING 4" GAS LINE TO BE RELOCATED BY GAS CO. OF N.M.

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-H	5225.48	WATER	DI	14"

Certification
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NOTE:
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SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTED FOR ACCEPTANCE BY	COA	DATE 7-14
FIELD LOCATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14
RECORDED BY		DATE

MICRO-FILM INFORMATION
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface).
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

ENGINEERS SEAL
CLAUDIA D. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER
1-4-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DBT DATE 12-2012
DRAWN BY DEM DATE 12-2012
CHECKED BY DBT DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

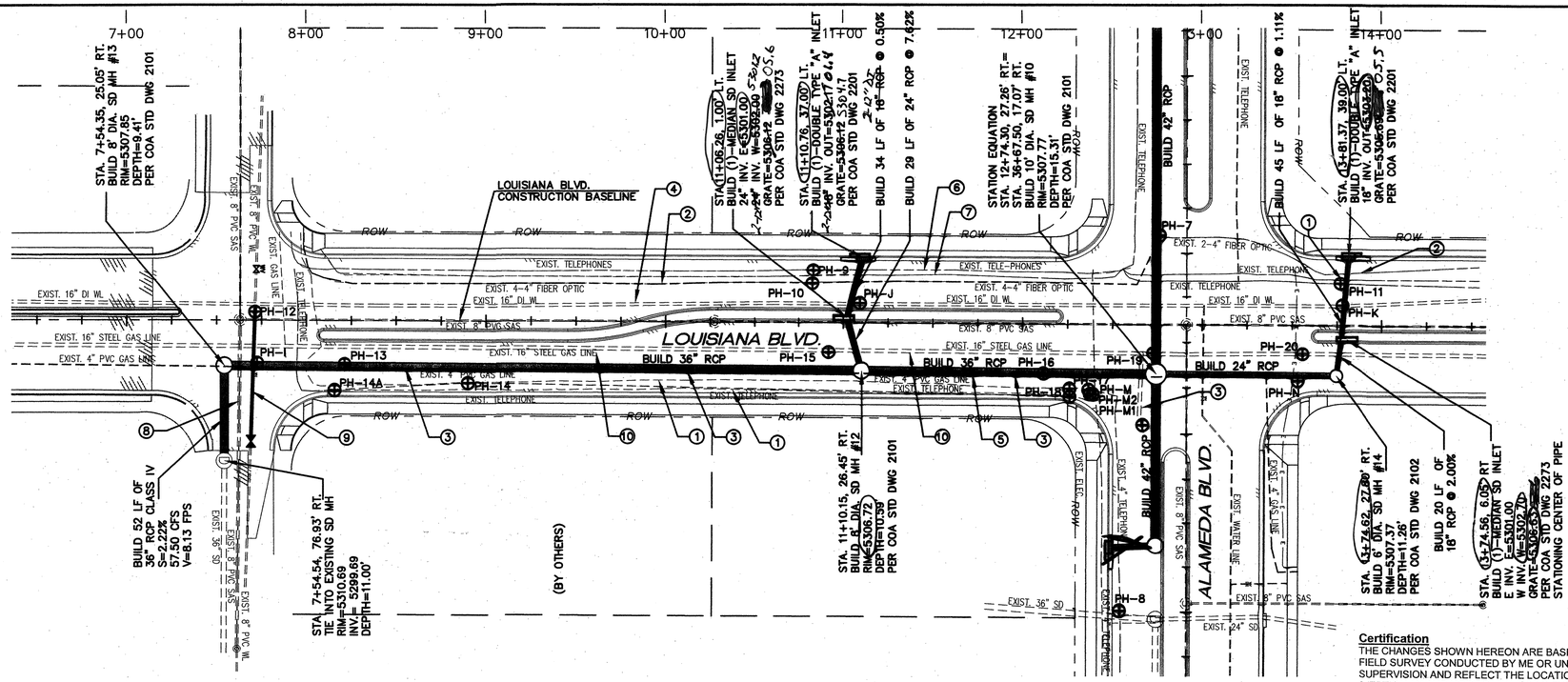
TITLE: ALAMEDA BLVD. WIDENING

SAN PEDRO STORM DRAIN PLAN AND PROFILE STA. 5+00 TO STA. 14+00

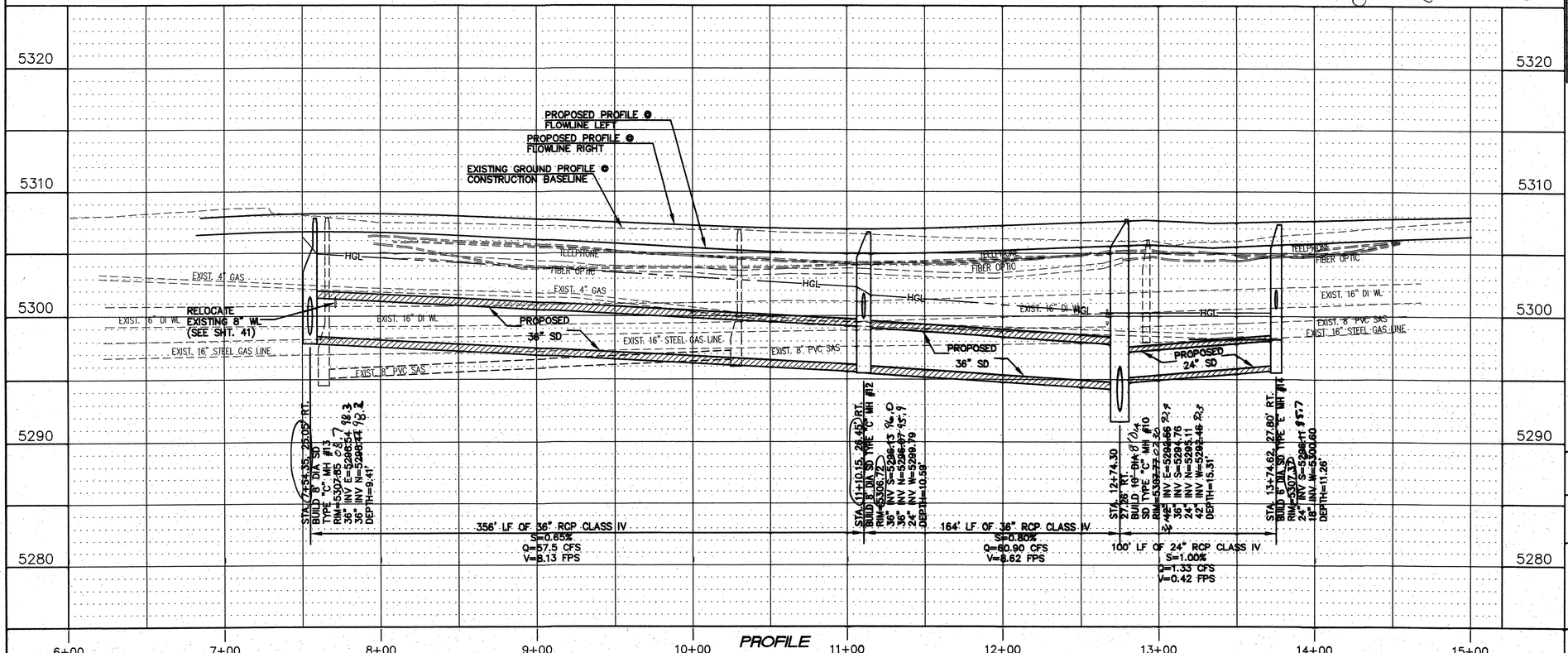
Design Review Committee	City Engineer Approval	Last Design Update	No. / Bay / Yr.	No. / Bay / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-5	39	84

RECORD DRAWINGS



LOUISIANA STORM DRAIN PLAN



PROFILE

KEYED NOTES:

1. EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.
2. EXISTING 4" PVC FIBER OPTIC LINE TO BE REMOVED AND RELOCATED BY CENTURYLINK.
3. EXISTING 4" PVC GAS LINE TO BE REMOVED AND RELOCATED BY GAS CO. OF N.M.
4. CONTRACTOR TO PROTECT EXISTING 16" WATER LINE
5. EXISTING 4" GAS LINE TO BE RELOCATED BY NMGASCO.
6. EXISTING TELEPHONE LINE TO BE RELOCATED BY CENTURYLINK
7. EXISTING OVERHEAD POWER LINES TO BE RELOCATED BY PNM
8. CONTRACTOR TO PROTECT EXISTING 8" SANITARY SEWER LINE
9. CONTRACTOR TO RELOCATE EXISTING 8" WATER LINE VERTICALLY (SEE SHT. 41)
10. CONTRACTOR TO PROTECT EXISTING 16" GAS LINE

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-7	5301.36	FIBER OPT	PVC	2-4"
PH-8	5306.79	TELEPHONE	PVC	4"
PH-9	5302.77	TELEPHONE	PVC	2"
PH-10	5303.73	FIBER OPT	PVC	4-4"
PH-11	5302.64	FIBER OPT	PVC	3-3"
PH-12	5300.73	WATER	PVC	8"
PH-13	5304.27	GAS	PVC	4"
PH-14	5303.77	TELEPHONE	PVC	2"
PH-14A	5305.46	TELEPHONE	PVC	2"
PH-15	5297.68	GAS	STEEL	16"
PH-16	5303.11	GAS	PVC	4"
PH-17	5304.56	TELEPHONE	PVC	2"
PH-18	5304.71	TELEPHONE	PVC	2"
PH-19	5299.15	GAS	STEEL	16"
PH-20	5298.19	GAS	STEEL	16"
PH-1	5301.48	WATER	PVC	8"
PH-J	5301.13	WATER	IRON	16"
PH-K	5302.12	WATER	IRON	16"
PH-L	5301.20	GAS	STEEL	14"
PH-M	5305.11	ELECTRIC	PVC	0.40'
PH-M1	5304.48	TELEPHONE	CABLE	0.18'
PH-M2	5305.21	GAS	PE	0.18'
PH-N	5302.55	ELECTRIC	(2) CABLES	0.18'

Certification

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NOTE:
HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.

SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY:	CARTESIAN SURVEYS, INC. DATE 7-14
STAKED WORKS ACCEPTANCE BY	COA DATE 7-14
FIELD VERIFICATION BY	COA DATE 7-14
DRAWINGS CORRECTED BY:	SMITH ENGINEERING CO. DATE 7-14
RECORDED BY	DATE

MICRO-FILM INFORMATION

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

ENGINEERS SEAL

NEW MEXICO — 9677 — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DBT	DATE	12-2012
DRAWN BY	DEM	DATE	12-2012
CHECKED BY	DBT	DATE	12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

LOUISIANA STORM DRAIN PLAN AND PROFILE STA. 6+00 TO STA. 15+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

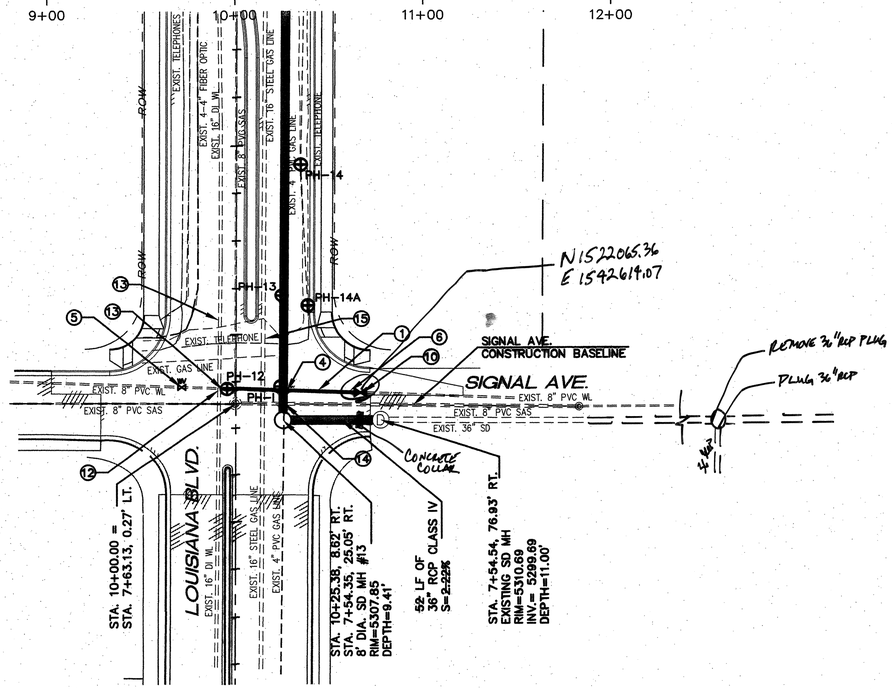
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-6	40	84

RECORD DRAWINGS



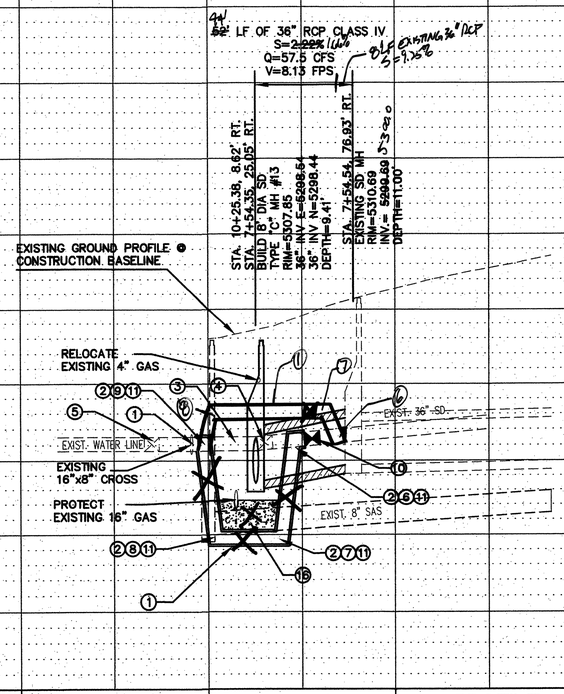
SIGNAL WATER RELOCATION PLAN

KEYED NOTES:

1. NEW 8" C-900 DR18 WATERLINE FULLY RESTRAIN ALL JOINTS IN NEW SECTION OF PIPE
2. INSTALL PCC BLOCKING AT 45° FITTINGS PER COA STD DWG 2320
3. REMOVE AND DISPOSE 70 LF OF 8" WATERLINE
4. STA. 10+30.30 REMOVE AND DISPOSE 8" GATE VALVE AND BOX
5. STA. 9+71.45, 8.98' LT. 8" GATE VALVE AND BOX TO REMAIN
6. STA. 10+62.88, 6.58' LT. INSTALL 8" 45° DUCTILE IRON MECHANICAL JOINT FITTING T.O.P.=~~5301.79~~ 02.15
7. STA. 10+42.88 INSTALL 8" 45° DUCTILE IRON MECHANICAL JOINT FITTING T.O.P.=~~5295.32~~ 5303.51
8. STA. 10+13.19 INSTALL 8" 45° DUCTILE IRON MECHANICAL JOINT FITTING T.O.P.=~~5295.32~~ 5303.39
9. STA. 9+93.19, 8.36' LT. INSTALL 8" MECHANICAL JOINT FITTING JOINT FITTING T.O.P.=~~5301.56~~ 5300.65
10. STA. ~~10+66.30~~, 6.62' LT. INSTALL 8" MECHANICAL JOINT GATE VALVE AND TYPE "A" VALVE BOX
11. INSTALL EMD
12. STA. 9+91.67, 8.36' LT. TIE NEW 8" WATERLINE INTO EXISTING 16"x8" CROSS
13. CONTRACTOR TO PROTECT EXISTING 16" WATER LINE
14. CONTRACTOR TO PROTECT EXISTING 8" SANITARY SEWER LINE
15. CONTRACTOR TO PROTECT EXISTING 16" GAS LINE
16. ~~PCAGE LEAN FILL PER ABCWUA STD DWG 2381~~

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-12	5300.73	WATER	PVC	8"
PH-13	5304.27	GAS	PVC	4"
PH-14	5303.77	TELEPHONE	PVC	2"
PH-14A	5305.46	TELEPHONE	PVC	2"
PH-1	5301.48	WATER	PVC	8"



PROFILE

NOTE:
HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.

Certification
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SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
SIGNAL WATER LINE RELOCATION
PLAN AND PROFILE STA. 10+00 TO STA. 12+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-7	41	84

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

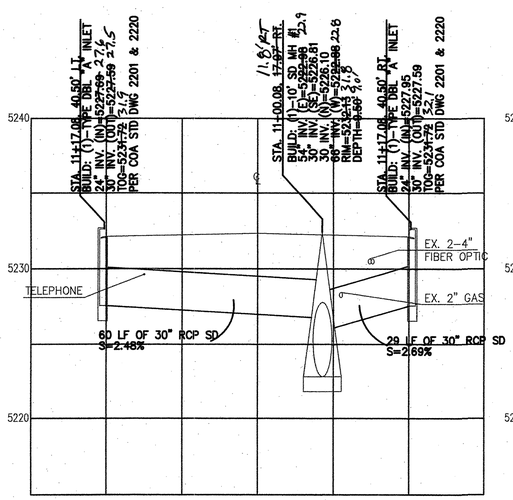
BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.096'). The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES BY DATE
NO. 11589 SURVEYING CONTROL INC. 11-2010

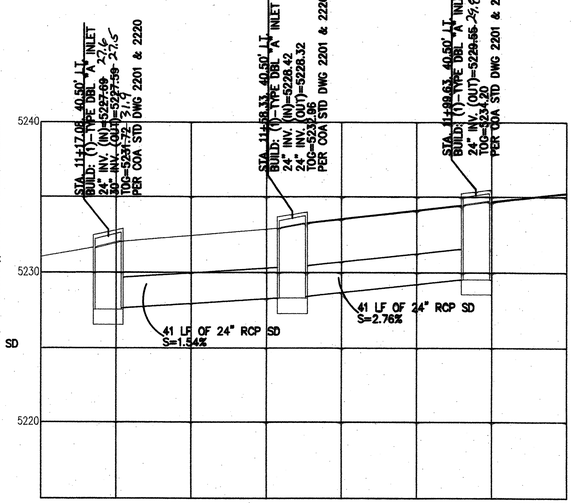
ENGINEERS SEAL
DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER
14473

REVISIONS

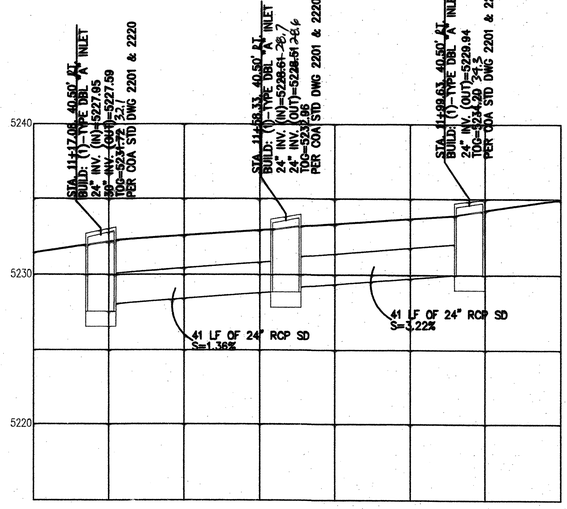
NO.	DATE	REMARKS	BY
DESIGNED BY	DBT	DESIGN	DATE 12-2012
DRAWN BY	DEM		DATE 12-2012
CHECKED BY	DBT		DATE 12-2012



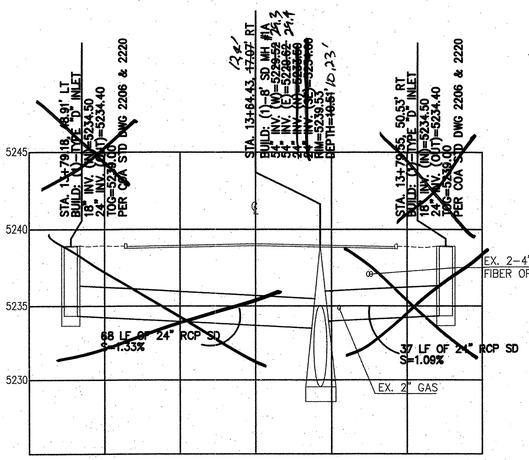
ALAMEDA STORM DRAIN LATERAL
STA. 11+00.08, 17.07' RT.



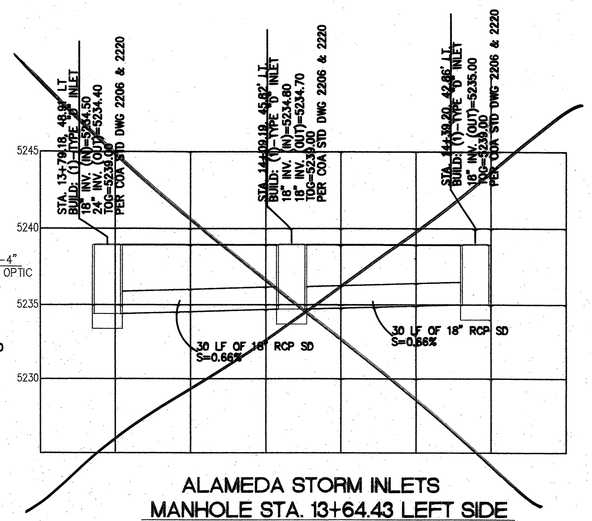
ALAMEDA STORM INLETS
MANHOLE STA. 11+00.08 LEFT SIDE



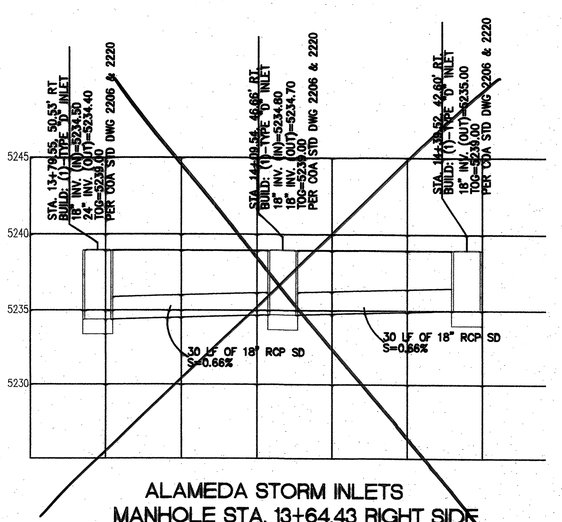
ALAMEDA STORM INLETS
MANHOLE STA. 11+00.08 RIGHT SIDE



ALAMEDA STORM DRAIN LATERAL
STA. 13+64.43, 1707' RT



ALAMEDA STORM INLETS
MANHOLE STA. 13+64.43 LEFT SIDE



ALAMEDA STORM INLETS
MANHOLE STA. 13+64.43 RIGHT SIDE

NOTE:
ALL LATERAL STORM DRAINS ARE CLASS IV.

*SEE SHEET 36 FOR AS-BUILT INFO

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

BENCH MARKS

Coordinates shown hereon are modified (surface).
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of O.O. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY: CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTORS ACCEPTANCE BY: COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY: SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.
The coordinates and elevations are US Survey Feet.

ENGINEERS SEAL
NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER
1-8-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DBT DATE 12-2012	
		DRAWN BY DEM DATE 12-2012	
		CHECKED BY DBT DATE 12-2012	

SCALE: 1" = 20'
SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

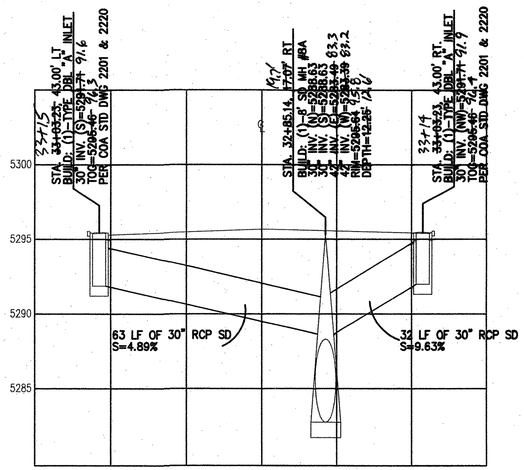
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
LATERALS

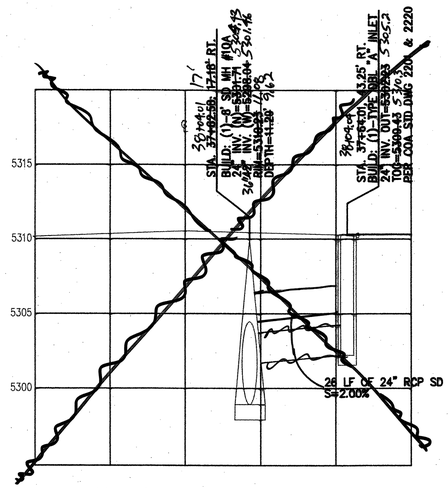
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update
No. / Day / Yr.
No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-8	42	84

SEE SHEET 37
FOR AS-BUILT INFORMATION



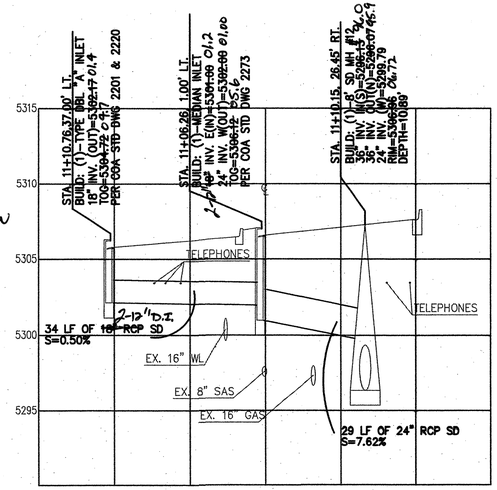
ALAMEDA STORM INLETS
STA. 32+85.14, 17.07' RT.



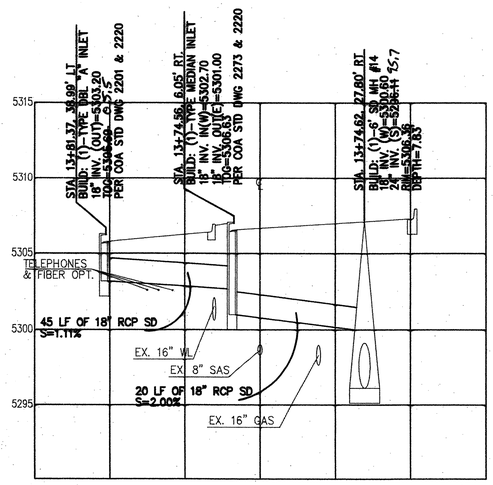
LATERAL CONSTRUCTED
FROM MODIFIED EXISTING MH
AT STA 3804901
SEE SHEET 10-AA1

ALAMEDA STORM INLETS
STA. ~~37+62.58~~, 17.07' RT.
3804901

SEE SHEET 40
FOR AS-BUILT INFORMATION



LOUISIANA STORM DRAIN LATERAL
STA. 11+10.15, 26.45' RT.



LOUISIANA STORM DRAIN LATERAL
STA. 13+74.62, 27.80' RT.

NOTE:
ALL LATERAL STORM DRAINS
ARE CLASS IV.

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
FIELD WORKS INSPECTED BY COA DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.
The coordinates and elevations are US Survey Feet.

BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates - Central Zone,
NAD 83 and were derived by scaling State
Plane grid coordinates by the project overage
combined factor of CF = 1.000334961 around
an origin of 0,0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "10-C18,
1985" (published elevation = 5222.080').

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

ENGINEERS SEAL
DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER
1-8-13

SCALE: 1" = 20'
SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DBT	DATE 12-2012
		DRAWN BY DEM	DATE 12-2012
		CHECKED BY DBT	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
LATERALS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update
No. / Boy / Yr. | No. / Boy / Yr.

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Sequence No. 4-9 | Sheet 43 Of 84

TRAFFIC SIGNAL NOTES

1. THE CONTRACTOR SHALL CONTACT THE CITY OF ALBUQUERQUE FOR APPROVED PRODUCTS LISTING FOR TRAFFIC SIGNAL AND COMMUNICATIONS SYSTEM COMPONENTS.
2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES AND TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE PROJECT MANAGER IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
4. MASTARMS SHALL BE PLACED 90° TO THE CENTERLINE UNLESS OTHERWISE NOTED.
5. SPLICING VIDEO DETECTION COAXIAL CABLE WILL NOT BE PERMITTED BETWEEN THE MASTARM BASE AND THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED BETWEEN THE OPTICAL DETECTOR AND THE CONTROLLER CABINET.
6. ALL VIDEO DETECTION COAXIAL AND POWER CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
7. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE SIGNAL LAB THREE (3) WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING PERSONNEL MUST BE PRESENT WHEN SIGNALS ARE SHUT OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE SIGNAL LAB TWO (2) WEEKS PRIOR TO TURNING ON NEW SIGNALS.
8. THE CONTRACTOR SHALL NOTIFY PNM ELECTRICITY THIRTY (30) DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM ELECTRIC TO ESTABLISH ELECTRICAL SERVICE IN THE CITY OF ALBUQUERQUE'S NAME. THE CONTRACTOR SHALL PAY PNM ELECTRIC ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK IS INCIDENTAL TO CONSTRUCTION.
9. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONFLICTING SIGNING WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
10. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES THE REQUIREMENTS FOR SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRICAL CODE.
11. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
12. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLE ARE INSTALLED OR REPLACED.
13. THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN NEW SIGNALS ARE PLACED INTO OPERATION OR WHEN EXISTING SIGNALS ARE TEMPORARILY SHUT OFF. THIS COST IS INCIDENTAL TO CONSTRUCTION.
14. ~~THE CONTRACTOR SHALL COORDINATE WITH CENTURY LINK TELEPHONE COMPANY TO INSTALL A STANDARD TELEPHONE SERVICE IN THE CITY OF ALBUQUERQUE'S NAME TO THE LOCATION SHOWN ON THE PLANS. THIS WORK IS INCIDENTAL TO CONSTRUCTION.~~
15. THE EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER, CABINETS, SIGNAL HEADS, PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, FITTINGS, BACK PLATES, LOAD SWITCHES, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE PINO YARD.
16. THE CONTRACTOR SHALL FURNISH FOUNDATION ELEVATIONS TO THE PROJECT MANAGER FOR APPROVAL BEFORE INSTALLATION. THE CONTRACTOR SHALL GRADE AROUND THE FOUNDATIONS TO PROVIDE TRAVERSABLE SLOPES AS DIRECTED BY THE PROJECT MANAGER. THE CONTRACTOR SHALL SUBMIT CROSS-SECTIONS FOR APPROVAL BASED ON ACTUAL FIELD ELEVATIONS. ALL EXCAVATION AND/OR EMBANKMENT REQUIRED WILL BE CONSIDERED INCIDENTAL.
17. SIGNALS NEAR EXISTING OVERHEAD POWER LINES MUST MAINTAIN A VERTICAL CLEARANCE AND/OR A HORIZONTAL CLEARANCE FROM THE CLOSEST PHASE CONDUCTOR. PNM ELECTRIC WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
18. ALL CONDUIT INSTALLED IN A TRENCH SHALL BE FLAGGED WITH CAUTION TAPE ONE FOOT ABOVE THE CONDUIT.
19. THE CONTRACTOR SHALL INSTALL INTERNALLY ILLUMINATED STREET NAME SIGNS ON EACH MASTARM OF THE SAN PEDRO BLVD INTERSECTION. THE BRAND OF ILLUMINATED STREET NAME SIGN SHALL BE APPROVED BY CITY TRAFFIC ENGINEERING. THE SIGNS SHALL BE CONSTRUCTED FROM .6" THICK WHITE IMPACT RESISTANT LEXAN PANELS. THE CITY MAY SUPPLY GRAPHICS FOR THE SIGN AND ALL DIGITAL PRINITING SHALL USE OUTDOOR QUALITY MATERIALS TO ENSURE A MINIMUM OF 3-YEARS OF GRAPHIC IMAGE QUALITY. AN ANTI-GRAFFITI-ULTRAVIOLET COATING SHALL BE APPLIED TO ALL SIGNS. LETTERING ON ALL SIGNS SHALL BE PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). DETAILS FOR THE ILLUMINATED STREET NAME SIGN ARE INCLUDED IN THE SIGNAL PLANS ON SHEET 7-8.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

1. THIS PROJECT IS A NEW SIGNAL SYSTEM. THEREFORE THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
   A. ALL NEW TRAFFIC SIGNAL CONTROLLERS ON THIS PROJECT SHALL BE ECONOLITE ASC/3, TS1/NTCIP ACTUATED CONTROLLERS AS DIRECTED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DEPARTMENT (505) 857-8700.
   B. ALL EIGHT PHASE DUAL RING CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE TS1 CABINETS WIRED FOR FULL EIGHT PHASE SYSTEM OPERATION, TELEMETRY BOARDS, 1T* TRANSIENT VOLTAGE SURGE SUPPRESSER AND ALL CONNECTING HARNESSES. THESE CABINETS SHALL BE CAPABLE OF FIBER OPTIC COMMUNICATIONS AND LOOP DETECTION.
2. SPLICE CABINETS SHALL BE AS DETAILED ON THE PLANS. LOW VOLTAGE SPLICE BLOCKS SHALL BE 50 UNITS TO THE FOOT, WITH EACH SPLICE BLOCK CAPABLE OF HANDLING 25 PAR CABLE (NUMBER OF SPLICE BLOCKS IN EACH CABINET CAPABLE OF HANDLING NUMBER OF CONDUCTORS SHOWN ON PLANS). SPLICE BLOCKS SHALL BE BELL SYSTEMS PART #663-50 OR APPROVED EQUAL. ALL COMMUNICATION CABLE PAIRS SHALL BE TERMINATED AT THE SPLICE BLOCK INCLUDING INACTIVE PAIRS.
3. EMERGENCY VEHICLE PRE-EMPT EQUIPMENT SHALL BE 3M "OPTICOM" MODEL 762 (OR MOST CURRENT ACCEPTABLE MODEL). PHASE SELECTORS MOUNTED ON 3M OPTICOM MODEL 760 RACKS, OR APPROVED EQUAL. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION. PHASE SELECTOR MODULES SHALL BE CAPABLE OF TWO CHANNELS OF DETECTION EACH. A MANUFACTURERS REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL PRE-EMPTION EQUIPMENT AND TO ASSIST IN SETTING UP, TURNING ON, PROGRAMMING AND FIELD TESTING PREEMPTION EQUIPMENT INCLUDING EMITTERS TO INSURE THAT THE EQUIPMENT IS OPERATIONAL.
4. THIS PROJECT INCLUDES THE INSTALLATION OF MACHINE VISION VEHICLE DETECTION EQUIPMENT AT THE WYOMING BLVD INTERSECTION.
   A. A FIXED VIDEO CAMERA SHALL BE MOUNTED AT LOCATION SHOWN ON THE PLANS. THE CAMERA SHALL BE SALVAGED FROM THE EXISTING SIGNAL POLE AND RELOCATED TO THE NEW INSTALLATION.
   B. THE VIDEO POWER CABLE SHALL BE A THREE CONDUCTOR #12 AWG TWISTED POWER SERVICE CABLE OR MANUFACTURER EQUIVALENT.
   C. THE INSTALLATION AND SETUP OF VIDEO DETECTION EQUIPMENT SHALL BE UNDER THE DIRECTION OF A FACTORY REPRESENTATIVE.

COMMUNICATION EQUIPMENT REQUIREMENTS

1. THIS PROJECT SHALL EXTEND ALL OR PART OF THE EXISTING ALAMEDA BLVD COMMUNICATIONS SYSTEM FROM I-25 TO WYOMING BLVD. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
   A. TYPE 'C' PULL BOXES AS IDENTIFIED ON PLAN SHEET 7-14.
   B. SPLICE VAULTS AS IDENTIFIED ON PLAN SHEET 7-14.
   C. A MANAGED FIELD ETHERNET SWITCH SHALL BE INSTALLED IN THE CONTROLLER CABINET AT SAN PEDRO BLVD. THE SWITCH SHALL CONFORM TO THE SPECIFICATIONS AND SHALL BE APPROVED FOR USE BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DEPARTMENT (505) 857-8700.
   D. FIBER OPTIC CABLE, 6 SMFO OR 96 SMFO, SHALL BE INSTALLED IN THE IDENTIFIED CONDUITS. THE FIBER OPTIC CABLE SHALL BE CONNECTED IN THE I-25/ALAMEDA COMMUNICATIONS CONTROLLER CABINET, AND THE SIGNAL CONTROLLER CABINETS AT SAN PEDRO BLVD AND WYOMING BLVD. FIBER OPTIC CABLE SLACK SHALL BE REQUIRED IN EACH PULL BOX AND SPLICE VAULT. 10 FT IN EACH PULL BOX AND 50 FT IN EACH SPLICE VAULT. FIBER OPTIC CABLE SHALL ALSO REQUIRE A #10 AWG LOCATOR WIRE, INSTALLATION OF WHICH SHALL BE INCIDENTAL TO CONSTRUCTION.
2. ALL COMMUNICATIONS CONDUIT SHALL BE PLACED AT 36" BELOW THE FINAL GRADE. ALL CONDUIT PLACED BELOW THE ROADWAY SHALL BE EITHER (1) 36" BELOW FINAL GRADE OR (2) 12" BELOW THE PAVEMENT SUB-GRADE, WHICHEVER IS GREATER.
3. CONDUIT IN THE MEDIAN SHALL BE PLACED NO MORE THAN 2.0 FEET FROM THE BACK OF MEDIAN CURB.

INCIDENTAL ITEMS

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, POLES AND OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. CABLE TESTING AND DIAGRAMS.
3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB AND GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. HAULING OF MATERIAL TO BE DISPOSED.
8. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY OF ALBUQUERQUE PINO YARDS.
9. LEAN FILL FOR CONDUIT TRENCHES.
10. PULL BOX ADJUSTMENT TO GRADE.
11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
12. CABLING AND CONNECTION HARDWARE FOR CCTV CAMERA INSTALLATION. THIS SHALL INCLUDE POWER CABLE, CAT5 CABLE AND ALL HARDWARE TO CONNECT THE CCTV CAMERA TO THE DESIGNATED SIGNAL POLE. ESTIMATED QUANTITIES OF CABLE LENGTHS HAVE BEEN INCLUDED IN THE PLANS.
12. REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
13. LOCATOR WIRES INSTALLED WITH FIBER OPTIC CABLE. THESE LOCATOR WIRES SHALL BE #10 AWG. LOCATOR WIRES SHALL NOT BE REQUIRED TO HAVE MORE THAN 5 FT OF ADDITIONAL LENGTH IN EACH PULL BOX OR VAULT.
14. FAN-OUT KITS, PATCH CORDS, TEST CONNECTOR TERMINALS, AND ALL MISCELLANEOUS FIBER OPTIC CABLE HARDWARE CONNECTIONS AND HARDWARE NOT SPECIFIED ARE INCIDENTAL TO CONSTRUCTION. THESE ITEMS ARE SUBJECT TO APPROVAL BY CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.
15. ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE
11888	SURVEYING CONTROL, INC.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface).
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project overage combined factor of 0.9 = 1.000033468l around an origin of O.O. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR: RMCI, INC.
WORK STAKED BY: CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTION BY: COA
ACCEPTANCE BY: COA DATE 7-14
VERIFICATION BY: DATE 7-14
SUBMITTED BY: SMITH ENGINEERING
RECORDED BY: DATE
NO.

MICRO-FILM INFORMATION

ENGINEER'S SEAL

NO.	DATE	REMARKS / REVISIONS	DESIGN	DATE	DESIGNED BY
1	11/6/2013	ADDITIONAL COMMUNICATIONS NOTES		12-2012	NKH
				12-2012	DRAWN BY NKH
				12-2012	CHECKED BY NKH

Harwick Transportation Group, Inc.
1648 Centre Circle SE
Albuquerque, NM 87106
(505) 830-4799

SEC JOB # 110203

SMITH ENGINEERING — SOLUTIONS FOR TODAY... VISION FOR TOMORROW — 5971 Gun Club Rd. NW, Building A, Suite 350, Albuquerque, NM 87105, Phone: (505) 830-4799, Fax: (505) 830-4799

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
TRAFFIC SIGNAL GENERAL NOTES

Design Review Committee	City Engineer Approval	Last Design Update

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-1	44	84

TRAFFIC SIGNAL NOTES

1. THE CONTRACTOR SHALL CONTACT THE CITY OF ALBUQUERQUE FOR APPROVED PRODUCTS LISTING FOR TRAFFIC SIGNAL AND COMMUNICATIONS SYSTEM COMPONENTS.
2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES AND TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE PROJECT MANAGER IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
4. MASTARMS SHALL BE PLACED 90° TO THE CENTERLINE UNLESS OTHERWISE NOTED.
5. SPLICING VIDEO DETECTION COAXIAL CABLE WILL NOT BE PERMITTED BETWEEN THE MASTARM BASE AND THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED BETWEEN THE OPTICAL DETECTOR AND THE CONTROLLER CABINET.
6. ALL VIDEO DETECTION COAXIAL AND POWER CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
7. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE SIGNAL LAB THREE (3) WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING PERSONNEL MUST BE PRESENT WHEN SIGNALS ARE SHUT OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE SIGNAL LAB TWO (2) WEEKS PRIOR TO TURNING ON NEW SIGNALS.
8. THE CONTRACTOR SHALL NOTIFY PNM ELECTRICITY THIRTY (30) DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM ELECTRIC TO ESTABLISH ELECTRICAL SERVICE IN THE CITY OF ALBUQUERQUE'S NAME. THE CONTRACTOR SHALL PAY PNM ELECTRIC ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK IS INCIDENTAL TO CONSTRUCTION.
9. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONFLICTING SIGNING WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
10. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES THE REQUIREMENTS FOR SINGLE CONDUCTOR BARE COPPER #6 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRICAL CODE.
11. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
12. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLE ARE INSTALLED OR REPLACED.
13. THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN NEW SIGNALS ARE PLACED INTO OPERATION OR WHEN EXISTING SIGNALS ARE TEMPORARILY SHUT OFF. THIS COST IS INCIDENTAL TO CONSTRUCTION.
14. THE CONTRACTOR SHALL COORDINATE WITH CENTURY LINK TELEPHONE COMPANY TO INSTALL A STANDARD TELEPHONE SERVICE IN THE CITY OF ALBUQUERQUE'S NAME TO THE LOCATION SHOWN ON THE PLANS. THIS WORK IS INCIDENTAL TO CONSTRUCTION.
15. THE EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER, CABINETS, SIGNAL HEADS, PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, FITTINGS, BACK PLATES, LOAD SWITCHES, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE PINO YARD.
16. THE CONTRACTOR SHALL FURNISH FOUNDATION ELEVATIONS TO THE PROJECT MANAGER FOR APPROVAL BEFORE INSTALLATION. THE CONTRACTOR SHALL GRADE AROUND THE FOUNDATIONS TO PROVIDE TRAVERSABLE SLOPES AS DIRECTED BY THE PROJECT MANAGER. THE CONTRACTOR SHALL SUBMIT CROSS-SECTIONS FOR APPROVAL BASED ON ACTUAL FIELD ELEVATIONS. ALL EXCAVATION AND/OR EMBANKMENT REQUIRED WILL BE CONSIDERED INCIDENTAL.
17. SIGNALS NEAR EXISTING OVERHEAD POWER LINES MUST MAINTAIN A VERTICAL CLEARANCE AND/OR A HORIZONTAL CLEARANCE FROM THE CLOSEST PHASE CONDUCTOR. PNM ELECTRIC WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
18. ALL CONDUIT INSTALLED IN A TRENCH SHALL BE FLAGGED WITH CAUTION TAPE ONE FOOT ABOVE THE CONDUIT.
19. THE CONTRACTOR SHALL INSTALL INTERNALLY ILLUMINATED STREET NAME SIGNS ON EACH MASTARM OF THE SAN PEDRO DR AND LOUISIANA BLVD INTERSECTIONS. THE BRAND OF ILLUMINATED STREET NAME SIGN SHALL BE APPROVED BY CITY TRAFFIC ENGINEERING. THE SIGNS SHALL BE CONSTRUCTED FROM ⅛" THICK WHITE IMPACT RESISTANT LEXAN PANELS. THE CITY MAY SUPPLY GRAPHICS FOR THE SIGN AND ALL DIGITAL PRINTING SHALL USE OUTDOOR QUALITY MATERIALS TO ENSURE A MINIMUM OF 3-YEARS OF GRAPHIC IMAGE QUALITY. AN ANTI-GRAFFITI-ULTRAVIOLET COATING SHALL BE APPLIED TO ALL SIGNS. LETTERING ON ALL SIGNS SHALL BE PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). DETAILS FOR THE ILLUMINATED STREET NAME SIGN ARE INCLUDED IN THE SIGNAL PLANS ON SHEETS 7-8 AND 7-10D.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

1. THIS PROJECT IS A NEW SIGNAL SYSTEM. THEREFORE THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
   A. ALL NEW TRAFFIC SIGNAL CONTROLLERS ON THIS PROJECT SHALL BE ECONOLITE ASC/3, TS1/NTCIP ACTUATED CONTROLLERS AS DIRECTED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DEPARTMENT (505) 857-8700.
   B. ALL EIGHT PHASE DUAL RING CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE TS1 CABINETS WIRED FOR FULL EIGHT PHASE SYSTEM OPERATION, TELEMETRY BOARDS, 17" TRANSIENT VOLTAGE SURGE SUPPRESSER AND ALL CONNECTING HARNESSES. THESE CABINETS SHALL BE CAPABLE OF FIBER OPTIC COMMUNICATIONS AND LOOP DETECTION.
2. SPLICE CABINETS SHALL BE AS DETAILED ON THE PLANS. LOW VOLTAGE SPLICE BLOCKS SHALL BE 50 UNITS TO THE FOOT, WITH EACH SPLICE BLOCK CAPABLE OF HANDLING 25 PAR CABLE (NUMBER OF SPLICE BLOCKS IN EACH CABINET CAPABLE OF HANDLING NUMBER OF CONDUCTORS SHOWN ON PLANS). SPLICE BLOCKS SHALL BE BELL SYSTEMS PART #663-50 OR APPROVED EQUAL. ALL COMMUNICATION CABLE PAIRS SHALL BE TERMINATED AT THE SPLICE BLOCK INCLUDING INACTIVE PAIRS.
3. EMERGENCY VEHICLE PRE-EMPT EQUIPMENT SHALL BE GTT "OPTICOM" MODEL 762 (OR MOST CURRENT ACCEPTABLE MODEL). PHASE SELECTORS MOUNTED ON GTT OPTICOM MODEL 760 RACKS, OR APPROVED EQUAL. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION. PHASE SELECTOR MODULES SHALL BE CAPABLE OF TWO CHANNELS OF DETECTION EACH. A MANUFACTURERS REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL PRE-EMPTION EQUIPMENT AND TO ASSIST IN SETTING UP, TURNING ON, PROGRAMMING AND FIELD TESTING PREEMPTION EQUIPMENT INCLUDING EMITTERS TO INSURE THAT THE EQUIPMENT IS OPERATIONAL.
4. THIS PROJECT INCLUDES THE INSTALLATION OF MACHINE VISION VEHICLE DETECTION EQUIPMENT AT THE WYOMING BLVD INTERSECTION.
   A. A FIXED VIDEO CAMERA SHALL BE MOUNTED AT LOCATION SHOWN ON THE PLANS. THE CAMERA SHALL BE SALVAGED FROM THE EXISTING SIGNAL POLE AND RELOCATED TO THE NEW INSTALLATION.
   B. THE VIDEO POWER CABLE SHALL BE A THREE CONDUCTOR #12 AWG TWISTED POWER SERVICE CABLE OR MANUFACTURER EQUIVALENT.
   C. THE INSTALLATION AND SETUP OF VIDEO DETECTION EQUIPMENT SHALL BE UNDER THE DIRECTION OF A FACTORY REPRESENTATIVE.

COMMUNICATION EQUIPMENT REQUIREMENTS

1. THIS PROJECT SHALL EXTEND ALL OR PART OF THE EXISTING ALAMEDA BLVD COMMUNICATIONS SYSTEM FROM I-25 TO WYOMING BLVD. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
   A. TYPE 'C' PULL BOXES AS IDENTIFIED ON PLAN SHEET 7-14.
   B. SPLICE VAULTS AS IDENTIFIED ON PLAN SHEET 7-14.
   C. A MANAGED FIELD ETHERNET SWITCH SHALL BE INSTALLED IN THE CONTROLLER CABINET AT SAN PEDRO BLVD. THE SWITCH SHALL CONFORM TO THE SPECIFICATIONS AND SHALL BE APPROVED FOR USE BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DEPARTMENT (505) 857-8700.
   D. FIBER OPTIC CABLE, 6 SMFO OR 96 SMFO, SHALL BE INSTALLED IN THE IDENTIFIED CONDUITS. THE FIBER OPTIC CABLE SHALL BE CONNECTED IN THE I-25/ALAMEDA COMMUNICATIONS CONTROLLER CABINET, AND THE SIGNAL CONTROLLER CABINETS AT SAN PEDRO BLVD AND WYOMING BLVD. FIBER OPTIC CABLE SLACK SHALL BE REQUIRED IN EACH PULL BOX AND SPLICE VAULT, 10 FT IN EACH PULL BOX AND 50 FT IN EACH SPLICE VAULT. FIBER OPTIC CABLE SHALL ALSO REQUIRE A #10 AWG LOCATOR WIRE, INSTALLATION OF WHICH SHALL BE INCIDENTAL TO CONSTRUCTION.

INCIDENTAL ITEMS

1. REMOVAL OF EXISTING PULL BOXES, CONDUITS, POLES AND OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. CABLE TESTING AND DIAGRAMS.
3. BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB AND GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS), FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
4. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
6. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. HAULING OF MATERIAL TO BE DISPOSED.
8. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY OF ALBUQUERQUE PINO YARDS.
9. LEAN FILL FOR CONDUIT TRENCHES.
10. PULL BOX ADJUSTMENT TO GRADE.
11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
12. CABLING AND CONNECTION HARDWARE FOR CCTV CAMERA INSTALLATION. THIS SHALL INCLUDE POWER CABLE, CAT5 CABLE AND ALL HARDWARE TO CONNECT THE CCTV CAMERA TO THE DESIGNATED SIGNAL POLE. ESTIMATED QUANTITIES OF CABLE LENGTHS HAVE BEEN INCLUDED IN THE PLANS.
13. REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
14. LOCATOR WIRES INSTALLED WITH FIBER OPTIC CABLE. THESE LOCATOR WIRES SHALL BE #10 AWG. LOCATOR WIRES SHALL NOT BE REQUIRED TO HAVE MORE THAN 5 FT OF ADDITIONAL LENGTH IN EACH PULL BOX OR VAULT.
15. FAN-OUT KITS, PATCH CORDS, TEST CONNECTOR TERMINALS, AND ALL MISCELLANEOUS FIBER OPTIC CABLE HARDWARE CONNECTIONS AND HARDWARE NOT SPECIFIED ARE INCIDENTAL TO CONSTRUCTION. THESE ITEMS ARE SUBJECT TO APPROVAL BY CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.
16. ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.
17. SIGNAL COVERS FOR USE PRIOR TO SYSTEM TURN ON.
18. CRIMP CAPS FOR UNUSED CONDUCTORS.
19. GEL FILLED WIRE NUTS ON ALL PULL BOX FIELD SPLICES.
20. PEDESTRIAN PUSH BUTTON EXTENSIONS TO PROVIDE ADA ACCESSIBILITY.

THIS SHEET HAS BEEN UPDATED TO INCLUDE NOTES PERTAINING TO THE LOUISIANA BLVD TRAFFIC SIGNAL. NO INFORMATION WAS DELETED FROM THE ORIGINAL SHEET 7-1.

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE
112368	SURVEYING CONTROL, INC.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface)

NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000453481 ground on origin at U.S. Elevations are NAVD 88, and are adjusted to the NGS control Station "10-C18, 1985" (published elevation = 5222.090').

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR: RMCI, INC.

STAKED BY:	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTED BY:	COA	DATE 7-14
FIELD VERIFICATION BY:	COA	DATE 7-14
DRAWINGS REVISED BY:	SMITH ENGINEERING	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY: DATE

NO.

ENGINEER'S SEAL

MELISSA K. HARWICK — NEW MEXICO — 14080 — REGISTERED PROFESSIONAL ENGINEER — 10-21-2013

NO.	DATE	REMARKS / REVISIONS	BY
		DESIGN	
			DESIGNED BY MKH DATE 10-2013
			DRAWN BY MKH DATE 10-2013
			CHECKED BY MKH DATE 10-2013

Harwick Transportation Group, Inc.
1440 Candelaria NE
Albuquerque, NM 87107
(505) 344-9464

SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
TRAFFIC SIGNAL GENERAL NOTES

Design Review Committee	City Engineer Approval	Last Design Update

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-1A	1	8

TRAFFIC SIGNAL QUANTITIES (Estimated)

NUMBER	ITEM	UNIT	SAN PEDRO BLVD	LOUISIANA BLVD	WYOMING BLVD	COMMUNICATIONS	TOTAL
421.006	SERVICE RISER (SIGNAL), CIP	EACH	1				1
421.010	METER PEDESTAL (SIGNAL), CIP	EACH	1				1
421.015	SERVICE CONNECTION (SIGNAL), CIP	EACH	1				1
422.004	TYPE I STANDARD, 15', CIP	EACH	8				8
422.019	TYPE III STANDARD, 35' ARM, CIP	EACH	3		1		4
422.021	TYPE III STANDARD, 40' ARM, CIP	EACH	1				1
423.001	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE, CIP	EACH	8				8
423.002	TRAFFIC SIGNAL MASTARM FOUNDATION, CIP	EACH	4		1		5
423.003	TRAFFIC SIGNAL CONTROLLER FOUNDATION (M & P), CIP	EACH	1				1
424.001	RIGID ELECTRICAL CONDUIT 1" (DIA)	LIN FT	65				65
424.006	RIGID ELECTRICAL CONDUIT 2" (DIA)	LIN FT	785		155		940
424.011	RIGID ELECTRICAL CONDUIT 3" (DIA)	LIN FT	1585	1160	320	2935	6000
425.002	ELECTRICAL PULL BOX (STANDARD), CIP	EACH	4				4
425.003	ELECTRICAL PULL BOX (LARGE), CIP	EACH	18	12	4		34
425.004	ELECTRICAL PULL BOX (TYPE C), CIP	EACH				6	6
425.600	COMMUNICATIONS SPLICE VAULT, CIP	EACH				2	2
426.001	SINGLE CONDUCTOR 2	LIN FT	945				945
426.003	SINGLE CONDUCTOR 6, CIP	LIN FT	3470		830		4300
426.005	SINGLE CONDUCTOR 10 (TRACER), CIP [INCIDENTAL]	LIN FT	110	1280	45	4050	5485
426.005	SINGLE CONDUCTOR 10, CIP	LIN FT	2310		100		2410
426.010	MULTI CONDUCTOR CABLE 5, CIP	LIN FT	1770		395		2165
426.011	MULTI CONDUCTOR CABLE 7, CIP	LIN FT	350				350
426.014	MULTI CONDUCTOR CABLE 20, CIP	LIN FT	1460		465		1925
427.002	3 SECTION TRAFFIC SIGNAL ASSEMBLY (LED), CIP	EACH	11		3		14
427.004	5 SECTION TRAFFIC SIGNAL ASSEMBLY (LED), CIP	EACH	9				9
427.021	PEDESTRIAN COUNTDOWN SIGNAL (LED), CIP	EACH	8		2		10
427.031	3 SECTION BACKPLATE, CIP	EACH	8		2		10
428.010	PUSH BUTTON STATION, CIP	EACH	8		2		10
428.021	LOOP DETECTOR WIRE, CIP	LIN FT	3721				3730
428.050	LOOP LEAD-IN CABLE, CIP	LIN FT	3860				3860
428.060	DETECTOR SAWCUT, CIP	LIN FT	1380				1380
428.071	PHASE SELECTOR MODULE, 2 CHANNEL, CIP	EACH	1				1
428.075	OPTICAL DETECTOR 1 DIRECTION, 1 CHANNEL, CIP	EACH	4		1		5
(1) 428.076 078	OPTICAL DETECTOR CABLE, CIP	LIN FT	1030		255		1285
428.092	VIDEO COAXIAL CABLE, CIP	LIN FT			245		245
428.093	VIDEO POWER CABLE, CIP	LIN FT			245		245
428.094	VIDEO CAMERA - DETECTION, CIP	EACH			1		1
428.210	CCTV CAMERA - PAN, TILT, ZOOM, CIP	EACH	1				1
429.001	TRAFFIC ACTUATED CONTROLLER	EACH	1				1
429.021	8 PHASE, DUAL RING CONTROLLER CABINET, CIP	EACH	1				1
430.001	INTERNALLY ILLUMINATED SIGN	EACH	4				4
432.002	ROADWAY LUMINAIRE TYPE 400S, CIP	EACH	4		1		5
435.006	SINGLE MODE FIBER OPTIC CABLE (6)	LIN FT → EACH				960	960
435.096	SINGLE MODE FIBER OPTIC CABLE (96)	LIN FT → EACH (1)				1605	1605
435.610	EXISTING SPLICE CLOSURE (RESPLICE)	EACH				2	2
435.702	MANAGED FIELD ETHERNET SWITCH	EACH	1				1
435.707	TESTING AND TROUBLESHOOTING	EACH				1	1

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
■	PB	PULL BOX
●	○	SERVICE POLE
M 1	EM	METER PEDESTAL
CC1	CC1	CONTROLLER CABINET
●	PB	COMMUNICATIONS VAULT
- - - - - - -	- - - - - - -	CONDUIT RUN (SIGNALS)
———	———	CONDUIT RUN (COMMUNICATIONS)
		LOOP DETECTOR
1	1	CONDUIT RUN NUMBER (SIGNAL/LIGHTING)
P1	P1	CONDUIT RUN NUMBER (POWER SERVICE)
C1	C1	CONDUIT RUN NUMBER (COMMUNICATIONS)
		DOUBLE HEAD, POLE MOUNTED LUMINAIRE
		TRAFFIC SIGNAL PEDESTAL POLE
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, AND OPTICAL DETECTOR
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUMINAIRE, AND ILLUMINATE STREET NAME SIGN
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
SC	SC	SPLICE CABINET
●	⊘	TRAFFIC MANHOLE
■		VIDEO CAMERA

AS BUILT INFORMATION
CONTRACTOR: RMCI, INC. — DATE 7-14
SURVEYED BY: CARTESIAN SURVEYS, INC. — DATE 7-14
DESIGNED BY: COA — DATE 7-14
DRAFTED BY: COA — DATE 7-14
CONSTRUCTION BY: SMITH — DATE 7-14
CONTROL BY: ENGINEERING CO.
MICRO-FILM INFORMATION
RECORDED BY — DATE
MD.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11598	SURVEYING CONTROL, INC.	11/2010

BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone,
NAD 83 and were derived by scaling State
Plane grid coordinates by the project average
combined factor of CF = 1.000334661 around
an origin of 0,0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "HC-016,
1985" (published elevation = 5222.060').
The coordinates and elevations are US Survey Feet.

GENERAL REVISION

NO.	DATE	REMARKS	BY
(1)	11-21-13	AS BUILTS DESIGN	NKH

DESIGNED BY NKH — DATE 12-2012
DRAWN BY NKH — DATE 12-2012
CHECKED BY NKH — DATE 12-2012

ENGINEERS SEAL
NEW MEXICO — 14889 — REGISTERED PROFESSIONAL ENGINEER — 1-8-2013

Harwick Transportation Group, Inc.
1440 Camino Carrito SE
Albuquerque, NM 87123

SEC JOB # 110203

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
TRAFFIC SIGNAL QUANTITIES

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-2 | Sheet 45 Of 84

TRAFFIC SIGNAL QUANTITIES (Estimated)

NUMBER	ITEM	UNIT	SAN PEDRO DR	LOUISIANA BLVD	WYOMING BLVD	COMMUNICATIONS	TOTAL
421.005	SERVICE RISER (SIGNAL), CIP	EACH		1			1
421.010	METER PEDESTAL (SIGNAL), CIP	EACH		1			1
421.015	SERVICE CONNECTION (SIGNAL), CIP	EACH		1			1
422.004	TRAFFIC SIGNAL PEDESTAL POLE, 15', CIP	EACH		7			7
422.019	TRAFFIC SIGNAL MASTARM, 35' ARM, TYPE III, TROMBONE, CIP	EACH		1			1
422.021	TRAFFIC SIGNAL MASTARM, 40' ARM, TYPE III, TROMBONE, CIP	EACH		3			3
423.001	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE, CIP	EACH		7			7
423.002	TRAFFIC SIGNAL MASTARM FOUNDATION, CIP	EACH		4			4
423.003	TRAFFIC SIGNAL CONTROLLER FOUNDATION (M & P CAB.), CIP	EACH		1			1
424.001	ELECTRICAL CONDUIT, 1" INCL.. TRENCHING, BACKFILL & PATCHING, CIP	LIN FT		60			60
424.006	ELECTRICAL CONDUIT, 2" INCL.. TRENCHING, BACKFILL, PATCHING, PUSHING, BORING & JACKING, CIP	LIN FT		545			545
424.011	ELECTRICAL CONDUIT, 3" INCL.. TRENCHING, BACKFILL, PATCHING, PUSHING, BORING & JACKING, CIP	LIN FT		~~2000~~ 2020 ①			~~2000~~ 2020 ①
425.002	ELECTRICAL PULL BOX (STANDARD), CIP	EACH		6			6
425.003	ELECTRICAL PULL BOX (LARGE), CIP	EACH		11 ~~11~~ ~~12~~			11 ~~11~~ ~~12~~
425.020	TRAFFIC SIGNAL MANHOLE, CIP	EACH		1 ~~1~~ ~~0~~ ②			1 ~~1~~ ~~0~~ ②
425.004	ELECTRICAL PULL BOX (TYPE C), CIP	EACH					
425.600	COMMUNICATIONS SPLICE VAULT, CIP	EACH					
426.001	SINGLE CONDUCTOR #2, CIP	LIN FT		720			720
426.003	SINGLE CONDUCTOR #6, CIP	LIN FT		4020			4020
426.005	SINGLE CONDUCTOR #10 (TRACER), CIP [INCIDENTAL]	LIN FT					
426.009	SINGLE CONDUCTOR #10, CIP	LIN FT		2710			2710
426.010	MULTI CONDUCTOR CABLE #5, CIP	LIN FT		2050			2050
426.011	MULTI CONDUCTOR CABLE #7, CIP	LIN FT		340			340
426.014	MULTI CONDUCTOR CABLE #20, CIP	LIN FT		1750			1750
427.002	3 SECTION TRAFFIC SIGNAL ASSEMBLY, CIP	EACH		12			12
427.004	5 SECTION TRAFFIC SIGNAL ASSEMBLY, CIP	EACH		6			6
427.021	PEDESTRIAN COUNTDOWN SIGNAL (LED), CIP	EACH		9			9
427.031	3 SECTION BACKPLATE, CIP	EACH		6			6
428.010	PUSH BUTTON STATION, CIP	EACH		6			6
428.021	LOOP DETECTOR WIRE, CIP	LIN FT		3588			3588
428.050	LOOP LEAD-IN CABLE, CIP	LIN FT		3910			3910
428.060	DETECTOR SAWCUT, COMPL.	LIN FT		1336			1336
428.070	PHASE SELECTOR RACK, 4 CHANNELS, CIP	EACH		1			1
428.071	PHASE SELECTOR MODULE, 2 CHANNEL, CIP	EACH		2			2
428.075	OPTICAL DETECTOR 1 DIRECTION, 1 CHANNEL, CIP	EACH		4			4
428.076	OPTICAL DETECTOR CABLE, CIP	LIN FT		1195			1195
428.092	VIDEO COAXIAL CABLE, CIP	LIN FT		~~100~~ ~~0~~ ②			~~0~~ ~~100~~
428.093	VIDEO POWER CABLE, CIP	LIN FT		~~100~~ ~~0~~ ②			~~0~~ ~~100~~
428.094	VIDEO CAMERA - DETECTION, CIP	EACH					
428.210	CCTV CAMERA - PAN, TILT, ZOOM, CIP	EACH		1			1
429.001	TRAFFIC ACTUATED CONTROLLER, CIP	EACH		1			1
429.021	8 PHASE, DUAL RING CONTROLLER CABINET, CIP	EACH		1			1
430.001	INTERNALLY ILLUMINATED SIGN	EACH		4			4
432.002	ROADWAY LUMINAIRE, TYPE 400S, CIP	EACH		4			4
435.006	SINGLE MODE FIBER OPTIC CABLE (6)	② LIN. FT. ~~EACH~~					
435.096	SINGLE MODE FIBER OPTIC CABLE (96)	LIN. FT. ~~EACH~~					
435.610	EXISTING SPLICE CLOSURE (RESPLICE)	EACH					
435.702	MANAGED FIELD ETHERNET SWITCH	EACH					
435.707	TESTING AND TROUBLESHOOTING	EACH					

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
■	(PB)	PULL BOX
●		SERVICE POLE
M1	(M)	METER PEDESTAL
CC1	(CC)	CONTROLLER CABINET
●	(CV)	COMMUNICATIONS VAULT
		CONDUIT RUN (SIGNALS)
		CONDUIT RUN (COMMUNICATIONS)
		LOOP DETECTOR
1	1	CONDUIT RUN NUMBER (SIGNAL/LIGHTING)
S1	S1	CONDUIT RUN NUMBER (POWER SERVICE)
C1	C1	CONDUIT RUN NUMBER (COMMUNICATIONS)
		DOUBLE HEAD, POLE MOUNTED LUMINAIRE
		TRAFFIC SIGNAL PEDESTAL POLE
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, AND OPTICAL DETECTOR
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUMINAIRE, AND ILLUMINATE STREET NAME SIGN
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
SC	SC	SPLICE CABINET
●	⊘	TRAFFIC MANHOLE
		VIDEO CAMERA

THIS SHEET SUPERCEDES SHEETS 7-2 OF THE ORIGINAL PLANS FOR THE LOUISIANA BLVD SIGNAL SYSTEM QUANTITIES ONLY. PREVIOUS QUANTITIES FROM SHEET 7-2 SHOULD BE DISREGARDED FOR THIS PROJECT ADDITION.

NOTE QUANTITY CHANGES

AS BUILT INFORMATION
CONTRACTOR: RMCI, INC.
SURVEYED BY: SURVEY CONTROL, INC. DATE 7-14
DRAWN BY: COA DATE 7-14
CHECKED BY: COA DATE 7-14
FIELD BOOK BY: SMITH ENGINEERING CO. DATE 7-14
DESIGNED BY: COA DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY: DATE:
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of SF = 1.000034961 around an origin of GPS Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES
NO. 11599 BY SURVEY CONTROL, INC. DATE 11/2010

ENGINEER'S SEAL
BRIAN K. HANWICK NEW MEXICO 14880 REGISTERED PROFESSIONAL ENGINEER
P.E. 11-6-13

NO.	DATE	REMARKS	BY
		DESIGN	
		AS-BUILT REVISIONS	
1	11/6/2013	ADDED CONDUIT #3, 2#1 – C/O TO C/O	NKH
2	11-21-13	GENERAL REVISIONS	PJA

DESIGNED BY NKH DATE 10-2013
DRAWN BY NKH DATE 10-2013
CHECKED BY NKH DATE 10-2013

Harwick Transportation Group, Inc.
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(505) 338-4765

SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS

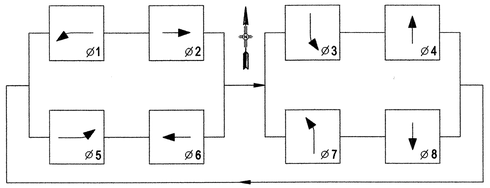
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
TRAFFIC SIGNAL QUANTITIES

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-2A | Sheet 2 Of 8

SIGNAL PHASING

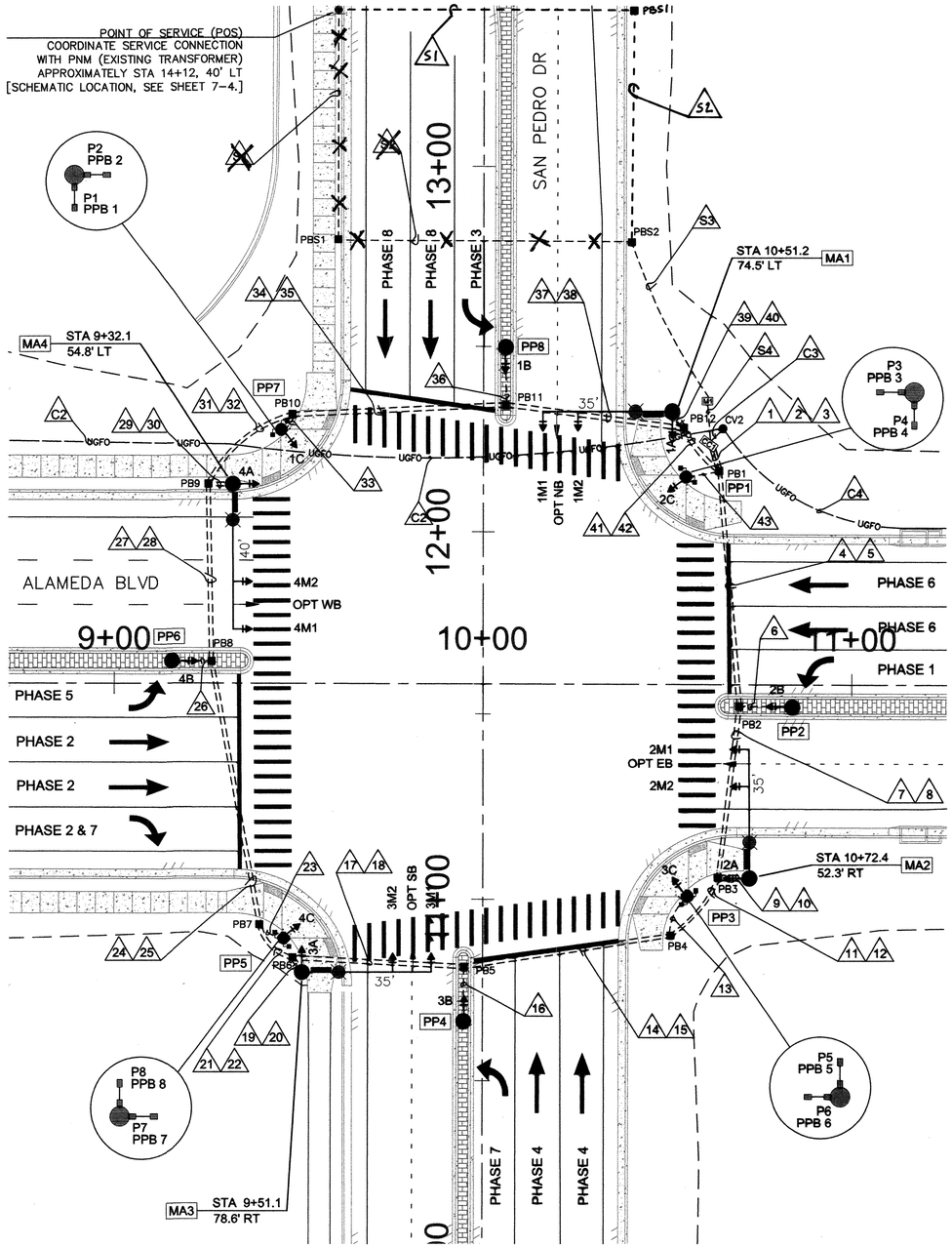


APPROXIMATE POLE AND CABINET LOCATIONS

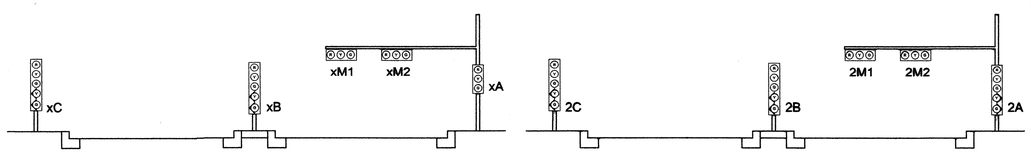
ID#	SIZE	STATION	OFFSET	LUMINAIRE
MA1	TYPE III - 35'	STA 10+51.2	74.5 LT	10'
MA2	TYPE III - 35'	STA 10+72.4	52.3 RT	10'
MA3	TYPE III - 35'	STA 9+51.1	78.6 RT	10'
MA4	TYPE III - 40'	STA 9+32.1	54.8 LT	10'
PP1	TYPE 1 - 15'	STA 10+54.9	57.1 LT	
PP2	TYPE 1 - 15'	STA 10+83.9	5.8 RT	
PP3	TYPE 1 - 15'	STA 10+55.4	57.3 RT	
PP4	TYPE 1 - 15'	STA 9+94.9	92.1 RT	
PP5	TYPE 1 - 15'	STA 9+46.0	69.4 RT	
PP6	TYPE 1 - 15'	STA 9+15.6	5.9 LT	
PP7	TYPE 1 - 15'	STA 9+45.1	69.4 LT	
PP8	TYPE 1 - 15'	STA 10+06.0	91.5 LT	
CC1	CONTROLLER CABINET	STA 10+61.2	65.9 LT	
M1	SERVICE METER	STA 10+60.8	77.2 LT	

NOTES:

1. ALL SIGNAL POLE, PULL BOX, AND CABINET LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. ALL ADJUSTMENTS SHALL REQUIRE CONCURRENCE OF THE FIELD ENGINEER.
2. ALL VEHICLE DISPLAYS SHALL BE LED TYPE APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.
3. THE CONTRACTOR SHALL ENSURE THAT ALL MASTARM SIGNAL HEADS ARE LOCATED AS NEAR AS POSSIBLE TO THE CENTER OF THE LANE SERVED. ALL VERTICAL, POLE MOUNTED DISPLAYS SHALL BE DIRECTED TOWARD THE CENTER OF THE LANE(S) SERVED.
4. ALL INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE INSTALLED WITH THE TRAILING EDGE OF THE SIGN ALIGNED WITH THE FACE OF CURB, OR AS CLOSE AS POSSIBLE.
5. ALL PEDESTRIAN INDICATIONS SHALL BE MUTCD COMPLIANT LED COUNTDOWN TYPE APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.
6. THE SIGNAL CONTROLLER CABINET SHALL BE MOUNTED AT A 45° ANGLE TO THE CENTERLINE OF EACH ROADWAY OR AS DIRECTED BY CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.
7. A CCTV CAMERA SHALL BE INSTALLED ON SIGNAL POLE MA1 PER DIRECTION OF THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING. THEY WILL ASSIST WITH DETERMINING THE MOUNTING HEIGHT OF THE CAMERA. ALL CABLING AND CONNECTION HARDWARE SHALL BE INCIDENTAL TO CONSTRUCTION.
8. NO SPLICES SHALL BE PERMITTED WITHIN THE PULL BOXES FOR OPTICAL, CCTV, OR LIGHTING COMPONENTS.
9. THIS PLAN INCLUDES BOTH SIGNALS AND ILLUMINATION.
10. ALL EQUIPMENT SHALL BE INSTALLED WITHIN EXISTING RIGHT-OF-WAY.
11. ALL FIELD SPLICES ARE INCIDENTAL TO CONSTRUCTION.
11. ALL FIELD SPLICES IN PULL BOXES SHALL USE GEL FILLED WIRE NUTS AND ARE INCIDENTAL TO CONSTRUCTION.
12. CRIMP CAPS (CLOSED END CONNECTORS) SHALL BE PLACED ON ALL UNUSED CONDUCTORS AND ARE INCIDENTAL TO CONSTRUCTION.



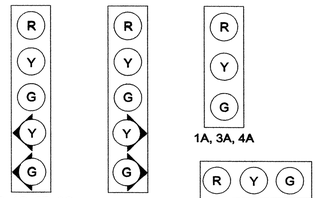
SCHEMATIC SIGNAL CONFIGURATIONS BY APPROACH



4 - WESTBOUND - ALAMEDA BLVD
1 - NORTHBOUND - SAN PEDRO BLVD
3 - SOUTHBOUND - SAN PEDRO BLVD

2 - EASTBOUND - ALAMEDA BLVD

TYPICAL SIGNAL FACE LENS ARRANGEMENTS



MASTARM SIGNAL SPACING**

MASTARM	ARM LENGTH	NO. SIGNALS	SPACING*
MA1	35'	2	25', 35'
MA2	35'	2	25', 35'
MA3	35'	2	24', 35'
MA4	40'	2	27', 40'

* MEASURED TO CENTER OF SIGNAL HOUSING IN FEET
** ESTIMATED BASED UPON LOCATION IDENTIFED ON PLANS, SHALL BE VERIFIED IF POLES ARE FIELD ADJUSTED.

APPROXIMATE PULL BOX LOCATIONS

ID#	SIZE	STATION	OFFSET
PB1	LARGE	STA 10+64	58.5 LT
PB2	LARGE	STA 10+69	5.8 RT
PB3	LARGE	STA 10+64	52.3 RT
PB4	LARGE	STA 10+51	68.4 RT
PB5	LARGE	STA 9+95	77.0 RT
PB6	LARGE	STA 9+49	74.7 RT
PB7	LARGE	STA 9+39	65.8 RT
PB8	LARGE	STA 9+26	5.9 LT
PB9	LARGE	STA 9+25	54.8 LT
PB10	LARGE	STA 9+48	73.4 LT
PB11	LARGE	STA 10+06	75.9 LT
PB12	LARGE	STA 10+54	70.1 LT
PBS1	LARGE	STA 12+79*	40.1 LT
PBS2	LARGE	STA 12+79*	40.0 RT
CV2	COMMUNICATIONS VAULT	STA 10+65	69.9 LT

ALL STATIONS/OFFSETS FROM ALAMEDA BLVD CENTERLINE UNLESS NOTED OTHERWISE.
* REFERENCED FROM SAN PEDRO BLVD CENTERLINE.

NOTES:
1. ALL MASTARM FOUNDATIONS ARE ROUND.
2. PEDESTAL POLES PP1, PP3, PP5 AND PP7 WERE INSTALLED IN THE SIDEWALK.

ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
3A	SIGNAL HEAD NUMBER
P2	PEDESTRIAN SIGNAL NUMBER
PPB2	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
MH1	TRAFFIC MANHOLE NUMBER
CM1	COMMUNICATIONS MANHOLE NUMBER
PB1	PULL BOX NUMBER (SIGNALS/LIGHTING)
PBC1	PULL BOX NUMBER (COMMUNICATIONS)
PBS1	PULL BOX NUMBER (POWER)

SYMBOL KEY

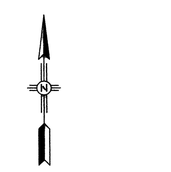
MA1	CABINET, MASTARM, PEDESTAL POLE ID
M1	METER ID
CV1	COMMUNICATIONS VAULT ID
##	CONDUIT RUN ID (SIGNAL / LIGHTING)
S#	CONDUIT RUN ID (POWER SERVICE)
E#	EXISTING CONDUIT RUN ID
C#	COMMUNICATION CONDUIT RUN

FLASH CONDITION

YELLOW BALL: 2M1, 2M2, 2A, 2B, 2C, 4M1, 4M2, 4A, 4B, 4C
RED BALL: 1M1, 1M2, 1A, 1B, 1C, 3M1, 3M2, 3A, 3B, 3C

INITIALIZATION

ALL RED, THEN PHASES 2 AND 6 - GREEN



Harwick Transportation Group, Inc.
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SEC JOB # 110203

SMITH ENGINEERING Company
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2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110
Phone: (505) 884-0700 Fax: (505) 884-3376
COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

SAN PEDRO/ALAMEDA INTERSECTION SIGNAL LAYOUT

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-3	46	84

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	DATE 7-14
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

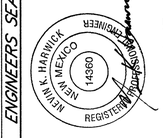
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling
Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL



NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY NKH	DATE 12-2012
		DRAWN BY NKH	DATE 12-2012
		CHECKED BY NKH	DATE 12-2012

ADVANCED DETECTION DELETED.
DELETIONS INCLUDE:
PB21, PB23, PB25, PB27
CONDUIT RUNS - 51,53,55,57

LOOP DETECTOR SHORTENED DUE TO PHASING LINE.

SAN PEDRO DR

ALAMEDA BLVD

POINT OF SERVICE (POS)
COORDINATE SERVICE CONNECTION WITH PNM (EXISTING TRANSFORMER) APPROXIMATELY STA 14+12, 40' LT

2 CONDUIT LEADS

3 CONDUIT LEADS

1 CONDUIT LEAD

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB20 PB21 PB22 PB23 PB24 PB25 PB26 PB27 PBS1

PP1 PP2 PP3 PP4 PP5 PP6 PP7 PP8

CV2

MA1 STA 10+51.2 74.5' LT

MA2 STA 10+68.3 46.2' RT

MA3 STA 9+51.1 78.6' RT

MA4 STA 9+32.1 54.8' LT

PHASE 1
PHASE 2
PHASE 2
PHASE 2 & 7
PHASE 3
PHASE 4
PHASE 4
PHASE 5
PHASE 6
PHASE 6
PHASE 7
PHASE 8
PHASE 8

DL1 (1)
DL1 (2)
DL3 (1)
DL4 (1)
DL4 (2)
DL4 (1)
DL4 (3)
DL5 (1)
DL5 (2)
DL7 (1)
DL8 (1)
DL8 (2)
DL8 (3)
DL8 (4)

7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00

12+00 11+00 10+00 9+00

NOTES:

1. DETECTOR LOOPS SHALL BE IN COMPLIANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2552, CURRENT REVISION.
2. NOT ALL CONDUIT RUNS TO POLES, CABINETS AND VAULTS ARE IDENTIFIED ON THIS SHEET.
3. ONE INCH (1") CONDUIT LEADS BETWEEN THE PULL BOX AND SAW CUT ARE NOT IDENTIFIED INDIVIDUALLY. THE NUMBER OF 5 FOOT CONDUITS ARE IDENTIFIED AT EACH PULL BOX LOCATION.

APPROXIMATE PULL BOX LOCATIONS

ID#	SIZE	CENTERLINE	STATION	OFFSET
PB20	LARGE	ALAMEDA	STA 11+13	6.1 RT
~~PB21~~	~~STANDARD~~	~~ALAMEDA~~	~~STA 12+43~~	~~5.9 RT~~
PB22	LARGE	SAN PEDRO	STA 10+38	40.8 RT
~~PB23~~	~~STANDARD~~	~~SAN PEDRO~~	~~STA 9+04~~	~~40.5 RT~~
PB24	LARGE	ALAMEDA	STA 8+89	5.9 LT
~~PB25~~	~~STANDARD~~	~~ALAMEDA~~	~~STA 8+29~~	~~5.8 LT~~
PB26	LARGE	SAN PEDRO	STA 12+82	39.6 LT
~~PB27~~	~~STANDARD~~	~~SAN PEDRO~~	~~STA 14+32~~	~~39.8 LT~~

ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
3A	SIGNAL HEAD NUMBER
P2	PEDESTRIAN SIGNAL NUMBER
PPB2	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
MH1	TRAFFIC MANHOLE NUMBER
PB1	PULL BOX NUMBER (SIGNALS/LIGHTING)
PBC1	PULL BOX NUMBER (COMMUNICATIONS)
PBS1	PULL BOX NUMBER (POWER)

SYMBOL KEY

- MA1 — CABINET, MASTARM, PEDESTAL POLE ID
- CV — COMMUNICATIONS VAULT
- ## — CONDUIT RUN ID (SIGNAL / LIGHTING)
- S# — CONDUIT RUN ID (POWER SERVICE)
- E# — EXISTING CONDUIT RUN ID
- C# — COMMUNICATION CONDUIT RUN

LOOP LEGEND

- QUADRUPOLE LOOP
- RECTANGULAR LOOP
- EC — EXTEND CALL LOOP
- LOOP LEAD CONDUIT

N

30' 15' 0 30' 60'

SCALE: 1" = 30'

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COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

SAN PEDRO/ALAMEDA INTERSECTION VEHICLE DETECTOR LAYOUT

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update: No. / Day / Yr. | No. / Day / Yr.

City Project No. 7663.91
Zone Map No. C-18/C-19
Drawing No. 7-4
Sheet 47 Of 84

ENGINEERS SEAL
KEITH K. HARWICK NEW MEXICO 14360 REGISTERED PROFESSIONAL ENGINEER
12-13-2012

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY NKH	DATE 12-2012
		DRAWN BY NKH	DATE 12-2012
		CHECKED BY NKH	DATE 12-2012

REVISIONS

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK PERFORMED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA DATE 7-14
VERIFICATION BY	COA DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

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Plane grid coordinates by the project average
combined factor of CF = 1.000334961 around
an origin of 0,0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "10-C18,
1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE

CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE

RUN ID ##	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC #2 (# @ FT)	CSCC #6** (# @ FT)	SCC #6 (# @ FT)	SCC #10 (# @ FT)	BARE #10[1] (# @ FT)	DLLIC* (# @ FT)	CCTV CAT5[1] (# @ FT)	CCTV POWER[1] (# @ FT)	OPTICOM (# @ FT)
S 1			140	REC	POS TO PBS1				3 @ 145								
S 2			85	REC	PBS1 TO PBS2				3 @ 90								
S 3			55	REC	PBS2 TO M1				3 @ 60								
S 4			15	REC	M1 TO CC1				3 @ 20								
1			15	REC	CC1 TO PB1	1 @ 20		2 @ 20		2 @ 20							
2			15	REC	CC1 TO PB1									13 @ 20	1 @ 20	1 @ 20	4 @ 20
3			15	REC	CC1 TO PB1						8 @ 20	8 @ 20					
4			70	REC	PB1 TO PB2	1 @ 75		2 @ 75		2 @ 75							
5			70	REC	PB1 TO PB2						4 @ 75	4 @ 75		6 @ 75			2 @ 75
6		20		REC	PB2 TO PP2		1 @ 25			2 @ 25							
7			50	REC	PB2 TO PB3	1 @ 55		2 @ 55		2 @ 55							
8			50	REC	PB2 TO PB3						4 @ 55	4 @ 55		4 @ 55			2 @ 55
9			15	REC	PB3 TO MA2	1@ 20		2 @ 20		2 @ 20							
10			15	REC	PB3 TO MA2						2 @ 20	2 @ 20					1 @ 20
11			30	REC	PB3 TO PB4	1 @ 35		2 @ 35		2 @ 35							
12			30	REC	PB3 TO PB4						2 @ 35	2 @ 35		4 @ 35			1 @ 35
13			20	REC	PB4 TO PP3	4 @ 25	1 @ 25			2 @ 25							
14			65	REC	PB4 TO PB5	1 @ 70		2 @ 70		2 @ 70							
15			65	REC	PB4 TO PB5						2 @ 70	2 @ 70					1 @ 70
16		20		REC	PB5 TO PP4		1 @ 25			2 @ 25							
17			55	REC	PB5 TO PB6	1 @ 60		2 @ 60		2 @ 60							
18			55	REC	PB5 TO PB6						2 @ 60	2 @ 60					1 @ 60
19			10	REC	PB6 TO MA3	1 @ 15		1 @ 15		2 @ 15							
20			10	REC	PB6 TO MA3						2 @ 15	2 @ 15					1 @ 15
21			20	REC	PB6 TO PB7	1 @ 25		2 @ 25		2 @ 25							
22			20	REC	PB6 TO PB7								1 @ 25				
23			15	REC	PB7 TO PP5	4 @ 20	1 @ 20			2 @ 20							
24			80	REC	PB7 TO PB8	1 @ 85		2 @ 85		2 @ 85							
25			80	REC	PB7 TO PB8								1 @ 85				
26		15		REC	PB8 TO PP6		1 @ 20			2 @ 20							
27			55	REC	PB8 TO PB9	1 @ 60		2 @ 60		2 @ 60							
28			55	REC	PB8 TO PB9									2 @ 60			
29			15	REC	PB9 TO MA4	1 @ 20		1 @ 20		2 @ 20							
30			15	REC	PB9 TO MA4						2 @ 20	2 @ 20					1 @ 20
31			35	REC	PB9 TO PB10	1 @ 40		2 @ 40		2 @ 40							
32			35	REC	PB9 TO PB10						2 @ 40	2 @ 40		2 @ 40			1 @ 40
33			10	REC	PB10 TO PP7	4 @ 15	1 @ 15			2 @ 15							
34			65	REC	PB10 TO PB11	1 @ 70		2 @ 70		2 @ 70							
35			65	REC	PB10 TO PB11						2 @ 70	2 @ 70		4 @ 70			1 @ 70
36		20		REC	PB11 TO PP8		1 @ 25			2 @ 25							
37			55	REC	PB11 TO PB12	1 @ 60		2 @ 60		2 @ 60							
38			55	REC	PB11 TO PB12						2 @ 60	2 @ 60		7 @ 60			1 @ 60
39			10	REC	PB12 TO MA1	1 @ 15		1 @ 15		2 @ 15							
40			10	REC	PB12 TO MA1						2 @ 15	2 @ 15			1 @ 15	1 @ 15	1 @ 15
41			25	REC	PB12 TO PB1	1 @ 30		2 @ 30		2 @ 30							
42			25	REC	PB12 TO PB1						4 @ 30	4 @ 30		7 @ 30	1 @ 30	1 @ 30	2 @ 30
43			15	REC	PB1 TO PP1	4 @ 20	1 @ 20			2 @ 20							
TOTAL		75	1585			1075	175	1460	945	1860	1610	1610	110	*	65	65	805

* DLLIC QUANTITY SUMMARIZED ON SHEET 7-7.

** CSCC SHALL USE ONE GREEN AND ONE WHITE #6 CONDUCTOR.

1 - THESE QUANTITIES ARE INCLUDED FOR PLANNING PURPOSES ONLY AND THE ITEMS ARE INCIDENTAL TO CONSTRUCTION.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

AS-BUILT VERIFICATION BY COA DATE 7-14

DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface)

N.M. State Plane Coordinates - Central Zone,

NAD 83 and were derived by scaling State

Plane grid coordinates by the project average

combined factor of CF = 1.000334961 around

an origin of 0,0. Elevations are NAVD 88, and

are adjusted to the NGS Control Station "10-C18,

1985" (published elevation = 5222.090').

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL

KEVIN J. HARWICK NEW MEXICO 14360 REGISTERED PROFESSIONAL ENGINEER

12-13-2012

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY NKH	DATE 12-2012
		DRAWN BY NKH	DATE 12-2012
		CHECKED BY NKH	DATE 12-2012

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DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

SAN PEDRO INTERSECTION - CONDUIT AND CONDUCTOR RUNS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91

Zone Map No. C-18/C-19

Drawing No. 7-5

Sheet 48 Of 84

MASTARM AND PEDESTAL POLE CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE						CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE										
RUN ID ##	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	CSCC #6 (# @ FT)	SCC #10 (# @ FT)				CCTV CAT5[1] (# @ FT)	CCTV POWER[1] (# @ FT)	OPTICOM (# @ FT)
MASTARM 1 - 35'																
MA1					BASE TO 1M1	1 @ 60										
MA1					BASE TO 1M2	1 @ 50										
MA1					BASE TO 1A	1 @ 15										
MA1					BASE TO STREET NAME SIGN					2 @ 35						
MA1					BASE TO OPTICOM											1 @ 55
MA1					BASE TO LUMINAIRE					2 @ 55						
MA1					BASE TO CCTV CAMERA									1 @ 45	1 @ 45	
MASTARM 2 - 35'																
MA2					BASE TO 2M1	1 @ 60										
MA2					BASE TO 2M2	1 @ 50										
MA2					BASE TO 2A		1 @ 15									
MA2					BASE TO STREET NAME SIGN					2 @ 35						
MA2					BASE TO OPTICOM											1 @ 55
MA2					BASE TO LUMINAIRE					2 @ 55						
MASTARM 3 - 35'																
MA3					BASE TO 3M1	1 @ 60										
MA3					BASE TO 3M2	1 @ 50										
MA3					BASE TO 3A	1 @ 15										
MA3					BASE TO STREET NAME SIGN					2 @ 35						
MA3					BASE TO OPTICOM											1 @ 55
MA3					BASE TO LUMINAIRE					2 @ 55						
MASTARM 4 - 40'																
MA4					BASE TO 4M1	1 @ 65										
MA4					BASE TO 4M2	1 @ 55										
MA4					BASE TO 4A	1 @ 15										
MA4					BASE TO STREET NAME SIGN					2 @ 35						
MA4					BASE TO OPTICOM											1 @ 60
MA4					BASE TO LUMINAIRE					2 @ 55						
PEDESTAL POLE 1 - 15'																
PP1					BASE TO 2C		1 @ 20									
PP1					BASE TO PB3 & PB4	2 @ 10										
PP1					BASE TO P3 & P4	2 @ 15										
PEDESTAL POLE 2 - 15'																
PP2					BASE TO 2B		1 @ 20									
PEDESTAL POLE 3 - 15'																
PP3					BASE TO 3C		1 @ 20									
PP3					BASE TO PB5 & PB6	2 @ 10										
PP3					BASE TO P5 & P6	2 @ 15										
PEDESTAL POLE 4 - 15'																
PP4					BASE TO 3B		1 @ 20									
PEDESTAL POLE 5 - 15'																
PP5					BASE TO 4C		1 @ 20									
PP5					BASE TO PB7 & PB8	2 @ 10										
PP5					BASE TO P7 & P8	2 @ 15										
PEDESTAL POLE 6 - 15'																
PP6					BASE TO 4B		1 @ 20									
PEDESTAL POLE 7 - 15'																
PP7					BASE TO 1C		1 @ 20									
PP7					BASE TO PB1 & PB2	2 @ 10										
PP7					BASE TO P1 & P2	2 @ 15										
PEDESTAL POLE 8 - 15'																
PP8					BASE TO 1B		1 @ 20									
SUBTOTAL						695	175			700				45	45	225

1 - THESE QUANTITIES ARE INCLUDED FOR PLANNING PURPOSES ONLY AND THE ITEMS ARE INCIDENTAL TO CONSTRUCTION.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone,
NAD 83 and were derived by scaling State
Plane grid coordinates by the project average
combined factor of CF = 1.000334961 around
an origin of 0,0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "10-C18,
1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL

NEIL K. HARWICK NEW MEXICO 14980 REGISTERED PROFESSIONAL ENGINEER
12-13-2012

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	NKH
		DRAWN BY	NKH
		CHECKED BY	NKH

DATE 12-2012
DATE 12-2012
DATE 12-2012

Harwick Transportation Group, Inc.
1440 Camino Cerrito SE
Albuquerque, NM 87123
(505) 228-9776

SEC JOB # 110203

SMITH ENGINEERING Company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE, Building 4, Suite 200
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Phone: (505) 884-0700
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COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

SAN PEDRO INTERSECTION - MASTARM AND POLE CONDUCTOR RUNS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91
Zone Map No. C-18/C-19
Drawing No. 7-6
Sheet 49 Of 84

DETECTOR RACK ASSIGNMENTS

UNIT NUMBER →	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CHANNEL 1 →		ø1	ø2	ø6	ø2 EC	ø3	ø4	ø8	ø4 EC	DUAL LEFT ø1	DUAL LEFT ø3	SD 1	SD 3	SD 5	SD 7	SD 9	PED ISOLATION	OPTICOM 1	OPTICOM 3
CHANNEL 2 →		ø5	ø2	ø6	ø6 EC	ø7	ø4	ø8	ø8 EC	DUAL LEFT ø5	DUAL LEFT ø7	SD 2	SD 4	SD 6	SD 8	SD 10		OPTICOM 2	OPTICOM 4
DETECTOR MODULE REQUIRED →	*	✓	✓	✓	✓	✓	✓	✓	✓									✓	✓

* INCIDENTAL TO CONSTRUCTION

DETECTOR LOOP REQUIREMENTS

LOOP ID	VEHICLE DETECTOR MODE	CALL	UNIT NO	CHANNEL	LOOP TYPE	LOOP DIMENSIONS L	W	S	T	LOOP WIRE	PAVEMENT SAWCUT
DL1(1)	PRESENCE		ONE	CH 1	QP	40'	6'	3'	5'	365'	135'
~~DL1(2)~~	~~PRESENCE~~	~~EXTEND~~	ONE	CH 1	EC	6'	6'	6'	5'	99'	30'
DL3(1)	PRESENCE		FIVE	CH 1	QP	40'	6'	3'	5'	425'	165'
DL4(1)	PRESENCE		SIX	CH 1	QP	40'	6'	9'	5'	377'	141'
DL4(2)	PRESENCE		SIX	CH 2	QP	40'	6'	21'	5'	407'	153'
~~DL4(3)~~	~~PRESENCE~~	~~EXTEND~~	EIGHT	CH 1	EC	6'	6'	24'	5'	135'	48'
DL5(1)	PRESENCE		ONE	CH 2	QP	40'	6'	3'	5'	365'	135'
~~DL5(2)~~	~~PRESENCE~~	~~EXTEND~~	ONE	CH 2	EC	6'	6'	6'	5'	99'	30'
DL7(1)	PRESENCE		FIVE	CH 2	QP	40'	6'	33'	5'	425'	165'
DL8(1)	PRESENCE		SEVEN	CH 1	QP	40'	6'	15'	5'	377'	141'
DL8(2)	PRESENCE		SEVEN	CH 2	QP	40'	6'	27'	5'	401'	153'
~~DL8(3)~~	~~PRESENCE~~	~~EXTEND~~	EIGHT	CH 2	EC	6'	6'	12'	5'	111'	36'
~~DL8(4)~~	~~PRESENCE~~	~~EXTEND~~	EIGHT	CH 2	EC	6'	6'	24'	5'	135'	48'
TOTAL										3721'	1380'

DETECTOR LOOP CONDUIT REQUIREMENTS

CONDUIT LENGTH, SIZE, AND LIMITS

RUN ID ##	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS
DETECTOR LOOP CONDUITS					
50		50		REC	PB2 TO PB 20
~~51~~		~~135~~		~~REC~~	~~PB20 TO PB21~~
52		60		REC	PB4 TO PB22
~~53~~		~~140~~		~~REC~~	~~PB22 TO PB23~~
54		45		REC	PB8 TO PB24
~~55~~		~~65~~		~~REC~~	~~PB24 TO PB25~~
56		60		REC	PB10 TO PB26
~~57~~		~~155~~		~~REC~~	~~PB26 TO PB27~~
LEADS	65			REC	13 @ 5'
TOTAL	65	710			

LOOP DETECTOR LEAD-IN CABLE

FROM	TO	CONDUIT TRACE	NO PAIR @ LENGTH	LENGTH
PB20	CONTROLLER	50, 5, 2	1 @ 150	150'
~~PB21~~	~~CONTROLLER~~	~~51, 50, 5, 2~~	~~1 @ 290~~	~~290'~~
PB22	CONTROLLER	52, 12, 8, 5, 2	3 @ 250	750'
~~PB23~~	~~CONTROLLER~~	~~53, 52, 12, 8, 5, 2~~	~~1 @ 395~~	~~395'~~
PB24	CONTROLLER	54, 28, 32, 35, 38, 42, 2	1 @ 330	330'
~~PB25~~	~~CONTROLLER~~	~~55, 54, 28, 32, 35, 38, 42, 2~~	~~1 @ 400~~	~~400'~~
PB26	CONTROLLER	56, 35, 38, 42, 2	3 @ 245	735'
~~PB27~~	~~CONTROLLER~~	~~57, 56, 35, 38, 42, 2~~	~~2 @ 405~~	~~810'~~
				3860'

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWING CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
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Plane grid coordinates by the project average
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are adjusted to the NGS Control Station "10-C18,
1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES
NO. 11599 BY SURVEYING CONTROL, INC. DATE 11/2010

ENGINEERS SEAL
KEVIN K. HARWICK NEW MEXICO 14360 REGISTERED PROFESSIONAL ENGINEER
12-13-2012

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY NKH	DATE 12-2012
		DRAWN BY NKH	DATE 12-2012
		CHECKED BY NKH	DATE 12-2012

Harwick Transportation Group, Inc.
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COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

SAN PEDRO INTERSECTION - LOOP DETECTORS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update: No. / Day / Yr. | No. / Day / Yr.

City Project No. 7663.91
Zone Map No. C-18/C-19
Drawing No. 7-7
Sheet 50 Of 84

NOTES:

1/ IDENTIFY CONDUCTORS LISTED AS "115 VOLTS".

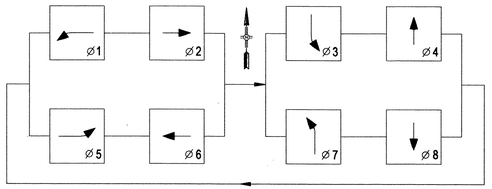
2/ WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE AND LOCATED 6" BACK FROM THE END.

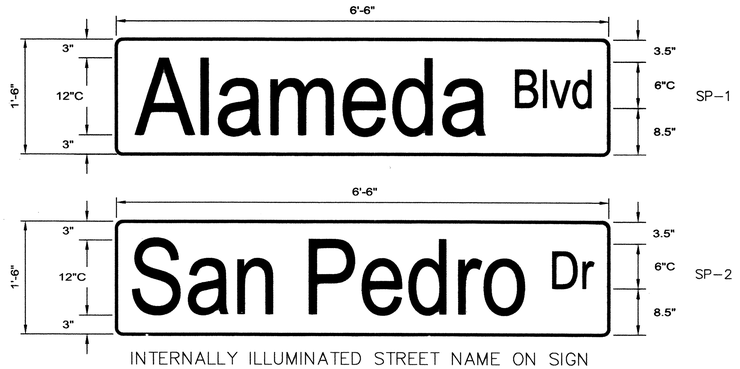
3/ IDENTIFY CONDUCTORS LISTED AS "PPB – LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.

OPTICOM LEAD-IN CABLE			
FROM	TO	CONDUIT TRACE	LENGTH*
MA1	CONTROLLER	MA1, 40, 42, 2, CC1	65'
MA2	CONTROLLER	MA2, 10, 8, 5, 2, CC1	170'
MA3	CONTROLLER	MA3, 20, 18, 15, 12, 8, 5, 2, CC1	330'
MA4	CONTROLLER	MA4, 30, 32, 35, 38, 42, 2, CC1	240'

* LENGTH EXCLUDES CABLE WITHIN THE POLE AND MASTARM.

SIGNAL PHASING





INTERNALLY ILLUMINATED STREET NAME ON SIGN

SIGN FACE NOTES:

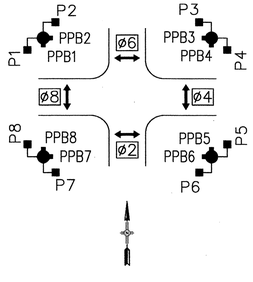
1. THE SIGN FACES ARE FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL VERIFY THE DESIGN WITH THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING AND THE SIGN MANUFACTURER TO INSURE THAT EACH SIGN IS MUTCD COMPLIANT.
2. THE ILLUMINATED STREET NAME SIGNS WILL BE WHITE LETTERING ON A GREEN BACKGROUND.
3. THE SIGN BORDER SHALL BE 1" WIDE WITH A 1" CORNER RADIUS.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

FUNCTION CHART – 24 VOLT CIRCUIT 3/			
CONDUCTOR			
NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2 PPB	PPB5 & PPB8
2	WHITE	COMMON	PPB1 THROUGH PPB8
3	RED	PHASE 8 PPB	PPB2 & PPB7
4	GREEN	PHASE 6 PPB	PPB1 & PPB4
5	ORANGE	PHASE 4 PPB	PPB3 & PPB6

PEDESTRIAN SIGNAL & PUSHBUTTON IDENTIFICATION



FUNCTION CHART – 115 VOLT CIRCUIT 1/						
CONDUCTOR			RING 1 – MULTI CONDUCTOR CABLE 20		RING 2 – MULTI CONDUCTOR CABLE 20 2/	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	–	SPARE	SPARE	SPARE	SPARE
2	WHITE	–	SPARE	SPARE	SPARE	SPARE
3	RED	–	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	–	PHASE 1 GREEN	GREEN TURN ARROW 4B, 4C	PHASE 5 GREEN	GREEN TURN ARROW 2B, 2C
5	ORANGE	–	PHASE 1 YELLOW	YELLOW TURN ARROW 4B, 4C	PHASE 5 YELLOW	YELLOW TURN ARROW 2B, 2C
6	BLUE	–	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 2M1, 2M2, 2A, 2B, 2C	PHASE 6 RED	RED BALL 4M1, 4M2, 4A, 4B, 4C
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2M1, 2M2, 2A, 2B, 2C	PHASE 6 GREEN	GREEN BALL 4M1, 4M2, 4A, 4B, 4C
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2M1, 2M2, 2A, 2B, 2C	PHASE 6 YELLOW	YELLOW BALL 4M1, 4M2, 4A, 4B, 4C
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P6, P7	PHASE 6 WALK	PEDESTRIAN WALK P2, P3
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P6 P7	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P2, P3
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	GREEN TURN ARROW 3B, 3C	PHASE 7 GREEN	GREEN TURN ARROW 1B, 1C, 2A
15	BLUE	WHITE	PHASE 3 YELLOW	YELLOW TURN ARROW 3B, 3C	PHASE 7 YELLOW	YELLOW TURN ARROW 1B, 1C, 2A
16	BLACK	RED	PHASE 4 RED	RED BALL 1M1, 1M2, 1A, 1B, 1C	PHASE 8 RED	RED BALL 3M1, 3M2, 3A, 3B, 3C
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 1M1, 1M2, 1A, 1B, 1C	PHASE 8 GREEN	GREEN BALL 3M1, 3M2, 3A, 3B, 3C
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 1M1, 1M2, 1A, 1B, 1C	PHASE 8 YELLOW	YELLOW BALL 3M1, 3M2, 3A, 3B, 3C
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P4, P5	PHASE 8 WALK	PEDESTRIAN WALK P1, P8
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P4, P5	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P1, P8

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

ACCEPTANCE BY COA DATE 7-14

FIELD VERIFICATION BY COA DATE 7-14

DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

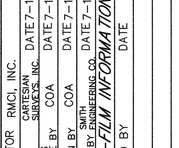
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL



12-13-2012

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE 12-2012	DESIGNED BY NKH	
	DATE 12-2012	DRAWN BY NKH	
	DATE 12-2012	CHECKED BY NKH	

Harwick Transportation Group, Inc.
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COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

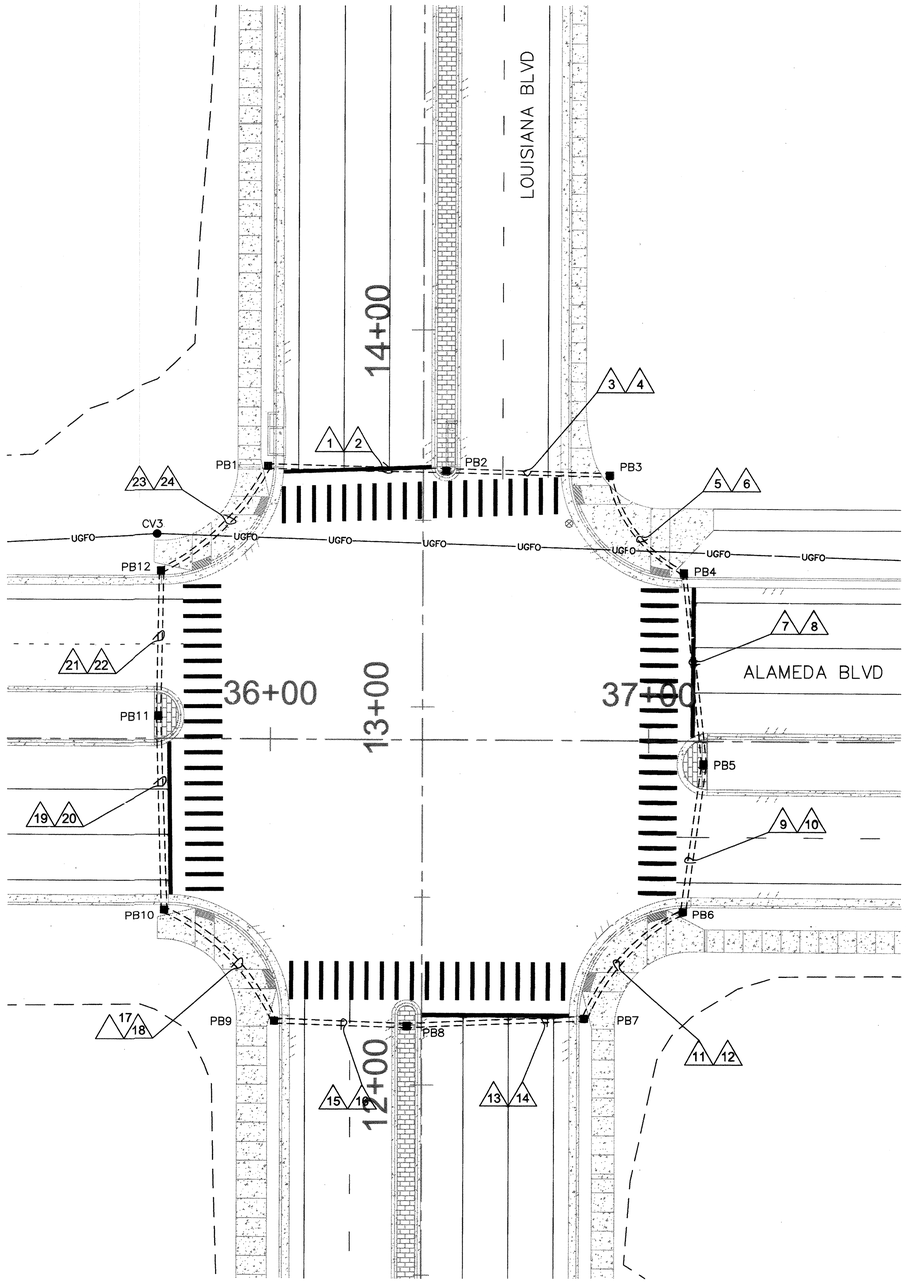
SAN PEDRO INTERSECTION - FUNCTION CHARTS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-8	51	84

NOTES:

1. ALL PULL BOX LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. ALL ADJUSTMENTS SHALL REQUIRE CONCURRENCE OF THE FIELD ENGINEER.
2. ALL EQUIPMENT SHALL BE INSTALLED WITHIN EXISTING RIGHT-OF-WAY.
3. ALL FIELD SPLICES ARE INCIDENTAL TO CONSTRUCTION.
4. ALL CONDUITS SHALL INCLUDE A #10 AWG TRACER WIRE.



APPROXIMATE PULL BOX LOCATIONS

ID#	SIZE	STATION	OFFSET
PB1	LARGE	STA 35+99	73.3 LT
PB2	LARGE	STA 35+46	72.2 LT
PB3	LARGE	STA 36+90	71.0 LT
PB4	LARGE	STA 37+09	44.7 LT
PB5	LARGE	STA 37+14	5.9 RT
PB6	LARGE	STA 37+09	44.9 RT
PB7	LARGE	STA 36+83	73.6 RT
PB8	LARGE	STA 36+36	75.7 RT
PB9	LARGE	STA 36+01	74.6 RT
PB10	LARGE	STA 35+72	44.9 RT
PB11	LARGE	STA 35+70	6.0 LT
PB12	LARGE	STA 35+71	45.4 LT
CV3	COMMUNICATIONS VAULT	STA 35+70	54.7 LT

SHEET REPLACED BY:
SHEET 7-9A, LOUISIANA BLVD PLANS.

ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
3A	SIGNAL HEAD NUMBER
P2	PEDESTRIAN SIGNAL NUMBER
PPB2	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
MH1	TRAFFIC MANHOLE NUMBER
CM1	COMMUNICATIONS MANHOLE NUMBER
PB1	PULL BOX NUMBER (SIGNALS/LIGHTING)
PBC1	PULL BOX NUMBER (COMMUNICATIONS)
PBS1	PULL BOX NUMBER (POWER)

SYMBOL KEY

MA1	CABINET, MASTARM, PEDESTAL POLE ID
M1	METER ID
CV1	COMMUNICATIONS VAULT ID
##	CONDUIT RUN ID (SIGNAL / LIGHTING)
S#	CONDUIT RUN ID (POWER SERVICE)
E#	EXISTING CONDUIT RUN ID
C#	COMMUNICATION CONDUIT RUN

N

20' 10' 0 20' 40'

SCALE: 1" = 20'

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SEC JOB # 110203

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Building 4, Suite 300
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376
COLORADO NEW MEXICO TEXAS

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS' SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DESIGNED BY	NKH	DATE 12-2012
	DRAWN BY	NKH	DATE 12-2012
	CHECKED BY	NKH	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

LOUISIANA/ALAMEDA INTERSECTION CONDUIT AND PULL BOX LAYOUT

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

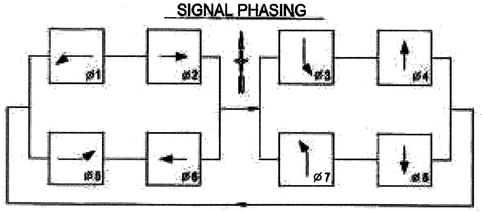
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-9	52	84

SIGNAL PHASING

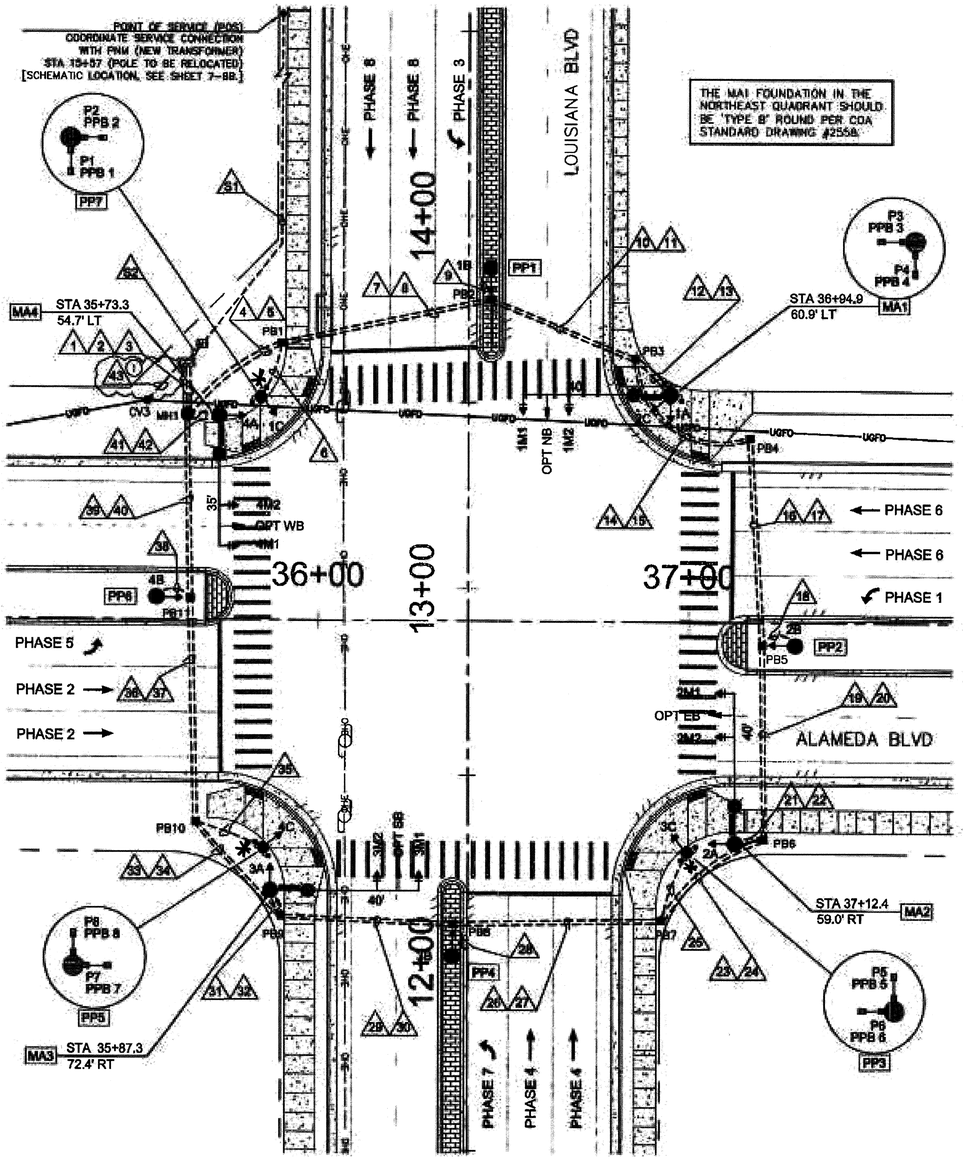


APPROXIMATE POLE AND CABINET LOCATIONS

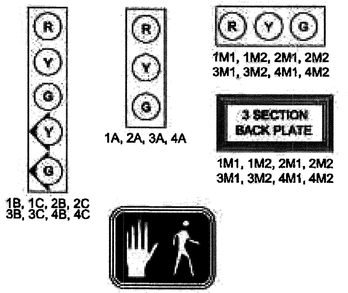
ID#	SIZE	STATION	OFFSET	LUMINAIRE
MA1	TYPE III - 40'	STA 36+94.9	60.9 LT	10'
MA2	TYPE III - 40'	STA 37.+12.4	59.0 RT	10'
MA3	TYPE III - 40'	STA 35+87.3	72.4 RT	10'
MA4	TYPE III - 35'	STA 35+73.3	54.7 LT	10'
PP1	TYPE I - 15'	STA 36+46.4	94.6 LT	
PP2	TYPE I - 15'	STA 37+28.3	6.0 RT	
PP3	TYPE I - 15'	STA 36+99.5	61.5 RT	
PP4	TYPE I - 15'	STA 36+38.6	89.8 RT	
PP5	TYPE I - 15'	STA 35+85.3	80.9 RT	
PP6	TYPE I - 15'	STA 35+58.9	5.9 LT	
PP7	TYPE I - 15'	STA 35+84.7	59.9 LT	
CC1	CONTROLLER CABINET	STA 35+64.5	68.8 LT	
M1	SERVICE METER	STA 35+68.6	73.7 LT	

NOTES:

1. ALL SIGNAL POLE, PULL BOX, AND CABINET LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. ALL ADJUSTMENTS SHALL REQUIRE CONCURRENCE OF THE FIELD ENGINEER.
2. ALL VEHICLE DISPLAYS SHALL BE LED TYPE APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING. ALL DISPLAYS SHALL BE COVERED PRIOR TO SYSTEM TURN ON. SIGNAL COVERS ARE INCIDENTAL TO CONSTRUCTION.
3. THE CONTRACTOR SHALL ENSURE THAT ALL MASTARM SIGNAL HEADS ARE LOCATED AS NEAR AS POSSIBLE TO THE CENTER OF THE LANE SERVED. ALL VERTICAL, POLE MOUNTED DISPLAYS SHALL BE DIRECTED TOWARD THE CENTER OF THE LANE(S) SERVED.
4. ALL INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE INSTALLED WITH THE TRAILING EDGE OF THE SIGN ALIGNED WITH THE FACE OF CURB, OR AS CLOSE AS POSSIBLE.
5. ALL PEDESTRIAN INDICATIONS SHALL BE MUTCD COMPLIANT LED COUNTDOWN TYPE APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.
6. A CCTV CAMERA SHALL BE INSTALLED ON SIGNAL POLE MA4 PER DIRECTION OF THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING. THEY WILL ASSIST WITH DETERMINING THE MOUNTING HEIGHT OF THE CAMERA. ALL CABLING AND CONNECTION HARDWARE SHALL BE INCIDENTAL TO CONSTRUCTION.
7. NO SPLICES SHALL BE PERMITTED WITHIN THE PULL BOXES FOR OPTICAL, CCTV, OR LIGHTING COMPONENTS.
8. THIS PLAN INCLUDES BOTH SIGNALS AND ILLUMINATION.
9. EACH LUMINAIRE SHALL BE SHIELDED.
10. ALL EQUIPMENT SHALL BE INSTALLED WITHIN EXISTING RIGHT-OF-WAY.
11. PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED WITHIN 1.5 FEET OF A LEVEL SIDEWALK PER ADA. PUSH BUTTON EXTENSIONS, IF REQUIRED, ARE INCIDENTAL TO CONSTRUCTION.
12. ALL FIELD SPLICES ARE INCIDENTAL TO CONSTRUCTION.
13. ALL FIELD SPLICES IN PULL BOXES SHALL USE GEL FILLED WIRE NUTS AND ARE INCIDENTAL TO CONSTRUCTION.
14. CRIMP CAPS (CLOSED END CONNECTORS) SHALL BE PLACED ON ALL UNUSED CONDUCTORS AND ARE INCIDENTAL TO CONSTRUCTION.
15. THE POINT OF SERVICE (POS) SHALL BE DETERMINED AFTER COORDINATION WITH PNM. THE POWER POLES ALONG LOUISIANA BLVD REQUIRE RELOCATION, AND ONCE COMPLETED, THE EXACT POS CAN BE DETERMINED.



TYPICAL SIGNAL FACE LENS ARRANGEMENTS



MASTARM SIGNAL SPACING**

MASTARM	ARM LENGTH	NO. SIGNALS	SPACING*
MA1	40'	2	28', 40'
MA2	40'	2	28', 40'
MA3	40'	2	28', 40'
MA4	35'	2	24', 35'

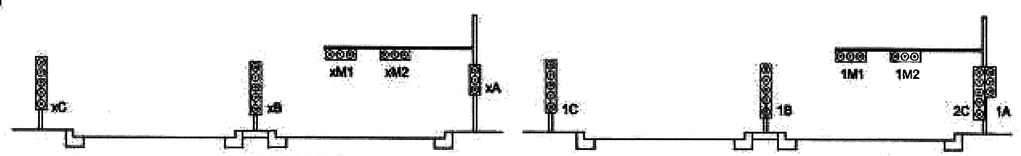
* MEASURED TO CENTER OF SIGNAL HOUSING IN FEET
** ESTIMATED BASED UPON LOCATION IDENTIFED ON PLANS, SHALL BE VERIFIED IF POLES ARE FIELD ADJUSTED.

APPROXIMATE PULL BOX LOCATIONS

ID#	SIZE	STATION	OFFSET
PB1	LARGE	STA 35+90	79.2 LT
PB2	LARGE	STA 36+46	86.2 LT
PB3	LARGE	STA 36+86	70.3 LT
PB4	LARGE	STA 37+16	49.7 LT
PB5	LARGE	STA 37+20	6.0 RT
PB6	LARGE	STA 37+20	57.0 RT
PB7	LARGE	STA 36+93	79.8 RT
PB8	LARGE	STA 36+37	81.0 RT
PB9	LARGE	STA 35+90	74.1 RT
PB10	LARGE	STA 35+67	54.1 RT
PB11	LARGE	STA 35+66	5.0 LT
MH1	MANHOLE	STA 35+64	68.0 LT
CV3	COMMUNICATIONS VAULT	STA 35+54	58.7 LT

ALL STATIONS/OFFSETS FROM ALAMEDA BLVD CENTERLINE UNLESS NOTED OTHERWISE.

SCHEMATIC SIGNAL CONFIGURATIONS BY APPROACH



2 - EASTBOUND - ALAMEDA BLVD
3 - SOUTHBOUND - LOUISIANA BLVD
4 - WESTBOUND - ALAMEDA BLVD

1 - NORTHBOUND - LOUISIANA BLVD

* NOTE: PP3, PP5, & PP7 INSTALLED IN SIDEWALK.

ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
3A	SIGNAL HEAD NUMBER
P2	PEDESTRIAN SIGNAL NUMBER
PPB2	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
MH1	TRAFFIC MANHOLE NUMBER
CV1	COMMUNICATIONS VAULT NUMBER
PB1	PULL BOX NUMBER (SIGNALS/LIGHTING)
PBC1	PULL BOX NUMBER (COMMUNICATIONS)
PBS1	PULL BOX NUMBER (POWER)
M1	METER NUMBER

SYMBOL KEY

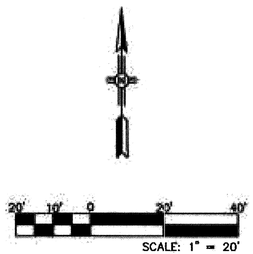
MA1	CABINET, MASTARM, PEDESTAL POLE ID
M1	METER ID
CV1	COMMUNICATIONS VAULT ID
/M/	CONDUIT RUN ID (SIGNAL / LIGHTING)
/S/	CONDUIT RUN ID (POWER SERVICE)
/EX/	EXISTING CONDUIT RUN ID
/C/	COMMUNICATION CONDUIT RUN

FLASH CONDITION

YELLOW BALL: 2M1, 2M2, 2A, 2B, 2C
4M1, 4M2, 4A, 4B, 4C
RED BALL: 1M1, 1M2, 1A, 1B, 1C
3M1, 3M2, 3A, 3B, 3C

INITIALIZATION

ALL RED, THEN PHASES 2 AND 6 - GREEN



Harwick Transportation Group, Inc.
1440 Camino Cerrito SE
Albuquerque, NM 87123

SEC JOB # 110203

SMITH ENGINEERING

SURVEY INFORMATION
FIELD NOTES BY: SURVEYING CONTROL, INC. DATE: 11/2010 NO.: 1599

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334985 around an origin of O,O. Elevations are NAVD 88, and are adjusted to the NGS Central Station "10-CHL" (published elevation = 5222.090').

AS BUILT INFORMATION
CONTRACTOR: RMCI, INC.
CERTIFIED BY: CARTESIAN SURVEYS, INC. DATE: 7-14
RECEIVED BY: COA DATE: 7-14
FIELD CHECKED BY: COA DATE: 7-14
CONSTRUCTION BY: SMITH ENGINEERING CO. DATE: 7-14

MICRO-FILM INFORMATION
RECORDED BY: DATE:
NO.:
1985' (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

ENGINEERS SEAL
NEIL S. HARWICK NEW MEXICO 14369 REGISTERED PROFESSIONAL ENGINEER
11-6-2013

NO.	DATE	REMARKS	BY
		REVISIONS	
1	11/6/2013	ADDED CONDUIT 43 - CV3 TO CC1	NKH
		DESIGNED BY	NKH
		DRAWN BY	NKH
		CHECKED BY	NKH
		DATE	10-2013
		DATE	10-2013
		DATE	10-2013

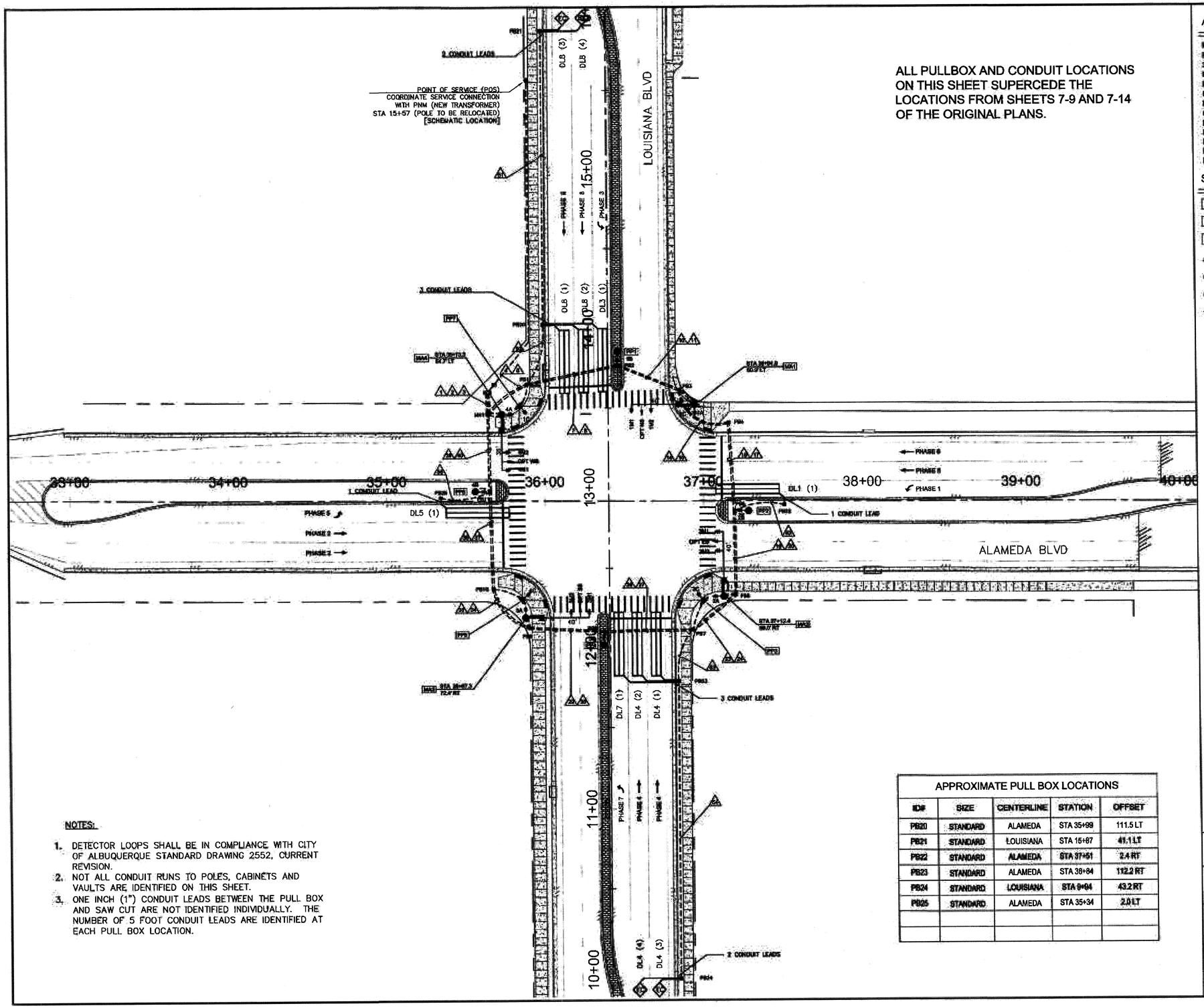
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
LOUISIANA/ALAMEDA INTERSECTION SIGNAL LAYOUT

Design Review Committee	City Engineer Approval	Last Design Update

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-9A	3	8

ALL PULLBOX AND CONDUIT LOCATIONS ON THIS SHEET SUPERCEDE THE LOCATIONS FROM SHEETS 7-9 AND 7-14 OF THE ORIGINAL PLANS.



ALL PULLBOX AND CONDUIT LOCATIONS ON THIS SHEET SUPERCEDE THE LOCATIONS FROM SHEETS 7-9 AND 7-14 OF THE ORIGINAL PLANS.

ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
SA	SIGNAL HEAD NUMBER
P2	PEDESTRIAN SIGNAL NUMBER
PPB2	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
MH1	TRAFFIC MANHOLE NUMBER
CM1	COMMUNICATIONS MANHOLE NUMBER
PB1	PULL BOX NUMBER (SIGNALS/LIGHTING)
PBC1	PULL BOX NUMBER (COMMUNICATIONS)
PBS1	PULL BOX NUMBER (POWER)
DLx	DETECTOR LOOP NUMBER
EC	EXTENDED CALL

SYMBOL KEY

MA1	CABINET, MASTARM, PEDESTAL POLE ID
M1	METER ID
CV1	COMMUNICATIONS VAULT ID
SW	CONDUIT RUN ID (SIGNAL / LIGHTING)
SW	CONDUIT RUN ID (POWER SERVICE)
EW	EXISTING CONDUIT RUN ID
CW	COMMUNICATION CONDUIT RUN

NOTES:

1. DETECTOR LOOPS SHALL BE IN COMPLIANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2552, CURRENT REVISION.
2. NOT ALL CONDUIT RUNS TO POLES, CABINETS AND VAULTS ARE IDENTIFIED ON THIS SHEET.
3. ONE INCH (1") CONDUIT LEADS BETWEEN THE PULL BOX AND SAW CUT ARE NOT IDENTIFIED INDIVIDUALLY. THE NUMBER OF 5 FOOT CONDUIT LEADS ARE IDENTIFIED AT EACH PULL BOX LOCATION.

APPROXIMATE PULL BOX LOCATIONS

ID#	SIZE	CENTERLINE	STATION	OFFSET
PB20	STANDARD	ALAMEDA	STA 35+99	111.5 LT
PB21	STANDARD	LOUISIANA	STA 15+87	41.1 LT
PB22	STANDARD	ALAMEDA	STA 37+51	2.4 RT
PB23	STANDARD	ALAMEDA	STA 38+84	112.2 RT
PB24	STANDARD	LOUISIANA	STA 9+94	43.2 RT
PB25	STANDARD	ALAMEDA	STA 35+34	2.0 LT

SCALE: 1" = 30'

Harwick Transportation Group, Inc.

SEC JOB # 110203

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
MADE BY CARTESIAN SURVEYS, INC. DATE 7-14
REVIEWED BY COA DATE 7-14
FIELD LOCATION BY SMITH DATE 7-14
DRAWINGS CORRECTED BY ENGINEERING DEPT.
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface) coordinates based on the N.M. State Plane Coordinates - Central Zone, N.A.D. 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 ground on origin of O.G. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
11999 SURVEYING CONTROL, INC. 11/2010

ENGINEER'S SEAL
NEW MEXICO 14988 REGISTERED PROFESSIONAL ENGINEER
9-12-2013

NO.	DATE	REMARKS	BY
		AS MASONS	
		DESIGN	
		DESIGNED BY NKH	DATE 10-2013
		DRAWN BY	DATE 10-2013
		CHECKED BY NKH	DATE 10-2013

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
LOUISIANA/ALAMEDA INTERSECTION VEHICLE DETECTOR LAYOUT

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-9B | Sheet 4 | Of 8

CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE

CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE

RUN ID (##)	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC #2 (# @ FT)	CSCC #6 (# @ FT)	SCC #6 (# @ FT)	BARE #10 [1] (# @ FT)	DLLIC (# @ FT)	VIDEO COAX (# @ FT)	VIDEO POWER (# @ FT)	OPTICOM (# @ FT)
1			55	REC	PB1 TO PB2							60				
2			55	REC	PB1 TO PB2							60				
3			50	REC	PB2 TO PB3							55				
4			50	REC	PB2 TO PB3							55				
5			40	REC	PB3 TO PB4							45				
6			40	REC	PB3 TO PB4							45				
7			55	REC	PB4 TO PB5							60				
8			55	REC	PB4 TO PB5							60				
9			45	REC	PB5 TO PB6							50				
10			45	REC	PB5 TO PB6							50				
11			45	REC	PB6 TO PB7							50				
12			45	REC	PB6 TO PB7							50				
13			55	REC	PB7 TO PB8							60				
14			55	REC	PB7 TO PB8							60				
15			40	REC	PB8 TO PB9							45				
16			40	REC	PB8 TO PB9							45				
17			50	REC	PB9 TO PB10							55				
18			50	REC	PB9 TO PB10							55				
19			55	REC	PB10 TO PB11							60				
20			55	REC	PB10 TO PB11							60				
21			45	REC	PB11 TO PB12							50				
22			45	REC	PB11 TO PB12							50				
23			45	REC	PB12 TO PB1							50				
24			45	REC	PB12 TO PB1							50				
TOTAL			1160									1280				

1 - THESE QUANTITIES ARE INCLUDED FOR PLANNING PURPOSES ONLY AND THE ITEMS ARE INCIDENTAL TO CONSTRUCTION.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

SHEET REPLACED BY:
SHEET 7-10A, LOUISIANA BLVD PLANS.

Harwick Transportation Group, Inc.
1440 Camino Cerrito SE
Albuquerque, NM 87123
(505) 228-9776

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376
COLORADO NEW MEXICO TEXAS

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY: CARTESIAN SURVEYS, INC. DATE 7-14
WORK ACCEPTANCE BY: COA DATE 7-14
FIELD VERIFICATION BY: COA DATE 7-14
DRAWINGS CORRECTED BY: SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface) Coordinates and elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES
NO. 11599 BY SURVEYING CONTROL, INC. DATE 11/2010

ENGINEERS SEAL
KENNETH K. HARWICK NEW MEXICO 14360 REGISTERED PROFESSIONAL ENGINEER
12-13-2012

NO.	DATE	REMARKS
		DESIGN
	DESIGNED BY NKH DATE 12-2012	
	DRAWN BY NKH DATE 12-2012	
	CHECKED BY NKH DATE 12-2012	

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

LOUISIANA INTERSECTION - CONDUIT AND CONDUCTOR RUNS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-10 | Sheet 53 Of 84

CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE

CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE

RUN ID	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC #2 (# @ FT)	CSCC #6** (# @ FT)	SCC #6 (# @ FT)	SCC #10 (# @ FT)	BARE #10[1] (# @ FT)	DLLIC* (# @ FT)	CCTV CAT5[1] (# @ FT)	CCTV POWER[1] (# @ FT)	OPTICOM (# @ FT)
S1			215	REC	POS TO M1				3 @ 220								
S2			15	REC	M1 TO CC1				3 @ 20								
1			25	REC	CC1 TO MH1	1 @ 30		2 @ 30		2 @ 30							
2			25	REC	CC1 TO MH1						8 @ 30	8 @ 30		12 @ 30			
3			25	REC	CC1 TO MH1										1 @ 30	1 @ 30	4 @ 30
4			40	REC	MH1 TO PB1	1 @ 45		2 @ 45		2 @ 45							
5			40	REC	MH1 TO PB1						2 @ 45	2 @ 45		6 @ 45			1 @ 45
6			25	REC	PB1 TO PP7	4 @ 30	1 @ 30			2 @ 30							
7			70	REC	PB1 TO PB2	1 @ 75		2 @ 75		2 @ 75							
8			70	REC	PB1 TO PB2						2 @ 75	2 @ 75		1 @ 75			1 @ 75
9			20	REC	PB2 TO PP1		1 @ 25			2 @ 25							
10			50	REC	PB2 TO PB3	1 @ 55		2 @ 55		2 @ 55							
11			60	REC	PB2 TO PB3						2 @ 55	2 @ 55		1 @ 55			1 @ 55
12			25	REC	PB3 TO MA1	2 @ 30		2 @ 30		2 @ 30							
13			25	REC	PB3 TO MA1						2 @ 30	2 @ 30					1 @ 30
14			55	REC	PB3 TO PB4	1 @ 60		2 @ 60		2 @ 60							
15			55	REC	PB3 TO PB4									1 @ 60			
16			65	REC	PB4 TO PB5	1 @ 70		2 @ 70		2 @ 70							
17			65	REC	PB4 TO PB5									1 @ 70			
18			20	REC	PB5 TO PP2		1 @ 25			2 @ 25							
19			60	REC	PB5 TO PB6	1 @ 65		2 @ 65		2 @ 65							
20			60	REC	PB5 TO PB6								1 @ 65				
21			20	REC	PB6 TO MA2	1 @ 25		2 @ 25		2 @ 25							
22			20	REC	PB6 TO MA2						2 @ 25	2 @ 25					1 @ 25
23			45	REC	PB6 TO PB7	1 @ 50		2 @ 50		2 @ 50							
24			45	REC	PB6 TO PB7						2 @ 50	2 @ 50					1 @ 50
25			30	REC	PB7 TO PP3	4 @ 35	1 @ 35			2 @ 35							
26			65	REC	PB7 TO PB8	1 @ 70		2 @ 70		2 @ 70							
27			65	REC	PB7 TO PB8						2 @ 70	2 @ 70		5 @ 70			1 @ 70
28			20	REC	PB8 TO PP4		1 @ 25			2 @ 25							
29			55	REC	PB8 TO PB9	1 @ 60		2 @ 60		2 @ 60							
30			55	REC	PB8 TO PB9						2 @ 60	2 @ 60		5 @ 60			1 @ 60
31			20	REC	PB9 TO MA3	1 @ 25		2 @ 25		2 @ 25							
32			20	REC	PB9 TO MA3						2 @ 25	2 @ 25					1 @ 25
33			45	REC	PB9 TO PB10	1 @ 50		2 @ 60		2 @ 50							
34			45	REC	PB9 TO PB10						4 @ 60	4 @ 50		5 @ 50			2 @ 50
35			30	REC	PB10 TO PP5	4 @ 35	1 @ 35			2 @ 35							
36			70	REC	PB10 TO PB11	1 @ 75		2 @ 75		2 @ 75							
37			70	REC	PB10 TO PB11						4 @ 75	4 @ 75		5 @ 75			2 @ 75
38			20	REC	PB11 TO PP6		1 @ 25			2 @ 25							
39			60	REC	PB11 TO MH1	1 @ 65		2 @ 65		2 @ 65							
40			60	REC	PB11 TO MH1						4 @ 65	4 @ 65		6 @ 65			2 @ 65
41			20	REC	MH1 TO MA4	1 @ 25		2 @ 25		2 @ 25							
42			20	REC	MH1 TO MA4						2 @ 25	2 @ 25			1 @ 25	1 @ 25	1 @ 25
43			20	REC	CV3 TO CC1												
TOTAL			2020			1305	200	1750	720	2100	1895	1895	65[1]		55[1]	55[1]	960

1 - THESE QUANTITIES ARE INCLUDED FOR CONTRACTOR INFORMATION ONLY AND THE ITEMS ARE INCIDENTAL TO CONSTRUCTION.

* DLLIC QUANTITY SUMMARIZED ON SHEET 7-10C.

** CSCC SHALL USE ONE GREEN AND ONE WHITE #6 CONDUCTOR.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

AS BUILT INFORMATION
CONTRACTOR: RMCI, INC.
DRAWN BY: CARTESIAN SURVEYS, INC. DATE 7-14
FIELD BOOK BY: COA DATE 7-14
PLOTTED BY: COA DATE 7-14
CONSTRUCTION STAKING BY: SMITH ENGINEERING CO. DATE 7-14
COMPILED BY: MACRO-FILM INFORMATION

BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone,
NAD 83 and were derived by scaling State
Plane grid coordinates by the project average
combined factor of CF = 1.000334961 around
an origin of 0,0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "10-C18,
1985" (published elevation = 5222.080').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS' SEAL
STATE OF NEW MEXICO 14390 REGISTERED PROFESSIONAL ENGINEER
11-6-2013

NO.	DATE	REMARKS	BY
1	11/6/2013	ADDED CONDUIT 43, 20' - CVS TO CC1	NKH

REVISIONS
DESIGN — DESIGNED BY NKH — DATE 10-2013
DRAWN BY NKH — DATE 10-2013
CHECKED BY NKH — DATE 10-2013

Norwick Transportation Group, Inc.
1440 Camino Cerrito SE
Albuquerque, NM 87123
(505) 268-4700

SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS FOR POWER, WATER FOR TOMORROW
4301 San Pedro Dr. NE, Building A, Suite 200, Albuquerque, NM 87109, Phone (505) 345-4250, Fax (505) 345-4254

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
LOUISIANA INTERSECTION - CONDUIT AND CONDUCTOR RUNS

Design Review Committee	City Engineer Approval	Last Design Update

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-10A	5	8

MASTARM AND PEDESTAL POLE CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE						CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE										
RUN ID	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	CSCC #6 (# @ FT)	SCC #10 (# @ FT)				CCTV CAT5[1] (# @ FT)	CCTV POWER[1] (# @ FT)	OPTICOM (# @ FT)
MASTARM 1 - 40'																
MA1					BASE TO 1M1	1 @ 65										
MA1					BASE TO 1M2	1 @ 55										
MA1					BASE TO 1A	1 @ 15										
MA1					BASE TO 2C	1 @ 15										
MA1					BASE TO PPB3 & PPB4	2 @ 10										
MA1					BASE TO P3 & P4	2 @ 15										
MA1					BASE TO STREET NAME SIGN (SP1)					2 @ 45						
MA1					BASE TO OPTICOM											1 @ 60
MA1					BASE TO LUMINAIRE					2 @ 55						
MASTARM 2 - 40'																
MA2					BASE TO 2M1	1 @ 65										
MA2					BASE TO 2M2	1 @ 55										
MA2					BASE TO 2A	1 @ 15										
MA2					BASE TO STREET NAME SIGN (SP2)					2 @ 45						
MA2					BASE TO OPTICOM											1 @ 60
MA2					BASE TO LUMINAIRE					2 @ 55						
MASTARM 3 - 40'																
MA3					BASE TO 3M1	1 @ 65										
MA3					BASE TO 3M2	1 @ 55										
MA3					BASE TO 3A	1 @ 15										
MA3					BASE TO STREET NAME SIGN (SP1)					2 @ 45						
MA3					BASE TO OPTICOM											1 @ 60
MA3					BASE TO LUMINAIRE					2 @ 55						
MASTARM 4 - 35'																
MA4					BASE TO 4M1	1 @ 60										
MA4					BASE TO 4M2	1 @ 50										
MA4					BASE TO 4A	1 @ 15										
MA4					BASE TO STREET NAME SIGN (SP2)					2 @ 40						
MA4					BASE TO OPTICOM											1 @ 55
MA4					BASE TO LUMINAIRE					2 @ 55						
MA4					BASE TO CCTV CAMERA									1 @ 45	1 @ 45	
PEDESTAL POLE 1 - 15'																
PP1					BASE TO 1B		1 @ 20									
PEDESTAL POLE 2 - 15'																
PP2					BASE TO 2B		1 @ 20									
PEDESTAL POLE 3 - 15'																
PP3					BASE TO 3C		1 @ 20									
PP3					BASE TO PPB5 & PPB6	2 @ 10										
PP3					BASE TO P5 & P6	2 @ 15										
PEDESTAL POLE 4 - 15'																
PP4					BASE TO 3B		1 @ 20									
PEDESTAL POLE 5 - 15'																
PP5					BASE TO 4C		1 @ 20									
PP5					BASE TO PPB7 & PPB8	2 @ 10										
PP5					BASE TO P7 & P8	2 @ 15										
PEDESTAL POLE 6 - 15'																
PP6					BASE TO 4B		1 @ 20									
PEDESTAL POLE 7 - 15'																
PP7					BASE TO 1C		1 @ 20									
PP7					BASE TO PPB1 & PPB2	2 @ 10										
PP7					BASE TO P1 & P2	2 @ 15										
SUBTOTAL						745	140			780				45[1]	45[1]	235

1 - THESE QUANTITIES ARE INCLUDED FOR CONTRACTOR INFORMATION ONLY AND THE ITEMS ARE INCIDENTAL TO CONSTRUCTION.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK PERFORMED BY SURVEYING INC. DATE 7-14
INSPECTED BY COA DATE 7-14
ACCEPTANCE BY COA DATE 7-14
VERIFICATION BY SMITH ENGINEERING CO. DATE 7-14
DRAWING BY
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of SF = 1.000334861 around an origin of G.O. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.060'). The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES BY DATE
NO. 11599 SURVEYING CONTROL, INC. 11/2010

ENGINEERS SEAL
NEW MEXICO 14390 REGISTERED PROFESSIONAL ENGINEER
10-21-13

NO.	DATE	REMARKS / REVISIONS / DESIGN	BY
	10-2013		
DESIGNED BY	NKH		
DRAWN BY	NKH		
CHECKED BY	NKH		

Harwick Transportation Group, Inc.
[redacted]

SEC JOB # 110203

SMITH ENGINEERING
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
[redacted]
COLORADO ARIZONA NEVADA

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
SAN PEDRO INTERSECTION - MASTARM AND POLE CONDUCTOR RUNS

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-108 | Sheet 6 | Of 8

DETECTOR RACK ASSIGNMENTS

UNIT NUMBER →	POWER SUPPLY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CHANNEL 1 →		ø1	ø2	ø6	ø2 EC	ø3	ø4	ø8	ø4 EC	DUAL LEFT ø1	DUAL LEFT ø3	SD 1	SD 3	SD 5	SD 7	SD 9	PED ISOLATION	OPTICOM 1	OPTICOM 3
CHANNEL 2 →		ø5	ø2	ø6	ø6 EC	ø7	ø4	ø8	ø8 EC	DUAL LEFT ø5	DUAL LEFT ø7	SD 2	SD 4	SD 6	SD 8	SD 10		OPTICOM 2	OPTICOM 4
DETECTOR MODULE REQUIRED →	*	✓				✓	✓	✓	✓								✓	✓	✓

* INCIDENTAL TO CONSTRUCTION

DETECTOR LOOP REQUIREMENTS

LOOP ID	VEHICLE DETECTOR MODE	CALL	UNIT NO	CHANNEL	LOOP TYPE	LOOP DIMENSIONS L	W	S	T	LOOP WIRE	PAVEMENT SAWCUT
DL1(1)	PRESENCE		ONE	CH 1	QP	40'	6'	3'	5'	385'	135'
DL3(1)	PRESENCE		FIVE	CH 1	QP	40'	6'	31'	5'	421'	163'
DL4(1)	PRESENCE		SIX	CH 1	QP	40'	6'	7'	5'	373'	139'
DL4(2)	PRESENCE		SIX	CH 2	QP	40'	6'	19'	5'	397'	151'
DL4(3)	PRESENCE	EXTEND	EIGHT	CH 1	EC	6'	6'	10'	5'	107'	34'
DL4(3)	PRESENCE	EXTEND	EIGHT	CH 1	EC	6'	6'	22'	5'	131'	46'
DL5(1)	PRESENCE		ONE	CH 2	QP	40'	6'	3'	5'	385'	135'
DL7(1)	PRESENCE		FIVE	CH 2	QP	40'	6'	31'	5'	421'	163'
DL8(1)	PRESENCE		SEVEN	CH 1	QP	40'	6'	7'	5'	373'	139'
DL8(2)	PRESENCE		SEVEN	CH 2	QP	40'	6'	19'	5'	397'	151'
DL8(3)	PRESENCE	EXTEND	EIGHT	CH 2	EC	6'	6'	10'	5'	107'	34'
DL8(4)	PRESENCE	EXTEND	EIGHT	CH 2	EC	6'	6'	22'	5'	131'	46'
TOTAL										3888'	1336'

DETECTOR LOOP CONDUIT REQUIREMENTS

CONDUIT LENGTH, SIZE, AND LIMITS

RUN ID (#)	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS
DETECTOR LOOP CONDUITS					
50		45		REC	PB1 TO PB 20
51		190		REC	PB20 TO PB21
52		40		REC	PB6 TO PB22
53		40		REC	PB7 TO PB23
54		190		REC	PB23 TO PB24
55		40		REC	PB11 TO PB25
LEADS	60			REC	12 @ 5'
TOTAL	60	545			

LOOP DETECTOR LEAD-IN CABLE

FROM	TO	CONDUIT TRACE	NO PAIR @ LENGTH	LENGTH
PB20	CONTROLLER	50, 5, 2	3 @ 125	375'
PB21	CONTROLLER	51, 50, 5, 2	2 @ 325	650'
PB22	CONTROLLER	52, 17, 15, 11, 8, 5, 2	1 @ 380	380'
PB23	CONTROLLER	53, 27, 30, 34, 37, 40, 2	3 @ 395	1185'
PB24	CONTROLLER	54, 53, 27, 30, 34, 37, 40, 2	2 @ 590	1180'
PB25	CONTROLLER	55, 40, 2	1 @ 140	140'
				3910'

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
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SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
AS-BUILTED BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS REVIEWED BY SMITH ENGINEERING DATE 7-14

MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of SF = 1.000334961 ground on origin of U.S. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL
NEW MEXICO 14980 REGISTERED PROFESSIONAL ENGINEER
10-21-2013

NO.	DATE	REMARKS / REVISIONS / DESIGN	BY
	10-2013	DESIGNED BY	NKH
	10-2013	DRAWN BY	NKH
	10-2013	CHECKED BY	NKH

Harwick Transportation Group, Inc.
[redacted]
SEC JOB # 110203
SMITH ENGINEERING CONSULTANTS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
SAN PEDRO INTERSECTION - LOOP DETECTORS

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-10C | Sheet 7 of 8

NOTES:

1/ IDENTIFY CONDUCTORS LISTED AS "115 VOLTS".

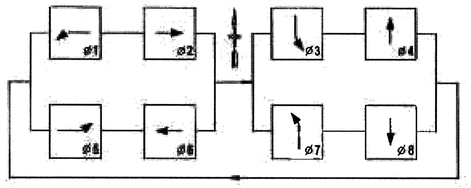
2/ WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE AND LOCATED 6" BACK FROM THE END.

3/ IDENTIFY CONDUCTORS LISTED AS "PPB – LOW VOLTAGE" AT EACH SPLICE POINT, FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.

OPTICOM LEAD-IN CABLE			
FROM	TO	CONDUIT TRACE	LENGTH*
MA1	CONTROLLER	MA1, 13, 11, 8, 5, 3, CC1	235'
MA2	CONTROLLER	MA2, 22, 24, 27, 30, 34, 37, 40, 3, CC1	425'
MA3	CONTROLLER	MA3, 32, 34, 37, 40, 3, CC1	245'
MA4	CONTROLLER	MA4, 42, 3, CC1	55'

* LENGTH EXCLUDES CABLE WITHIN THE POLE AND MASTARM.

SIGNAL PHASING



INTERNALLY ILLUMINATED STREET NAME ON SIGN

SIGN FACE NOTES:

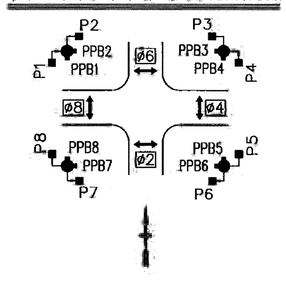
1. THE SIGN FACES ARE FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL VERIFY THE DESIGN WITH THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING AND THE SIGN MANUFACTURER TO INSURE THAT EACH SIGN IS MUTCD COMPLIANT.
2. THE ILLUMINATED STREET NAME SIGNS WILL BE WHITE LETTERING ON A GREEN BACKGROUND.
3. THE SIGN BORDER SHALL BE 1" WIDE WITH A 1" CORNER RADIUS.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

FUNCTION CHART – 24 VOLT CIRCUIT 3/			
CONDUCTOR			
NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2 PPB	PPB5 & PPB8
2	WHITE	COMMON	PPB1 THROUGH PPB8
3	RED	PHASE 8 PPB	PPB2 & PPB7
4	GREEN	PHASE 6 PPB	PPB1 & PPB4
5	ORANGE	PHASE 4 PPB	PPB3 & PPB6

PEDESTRIAN SIGNAL & PUSHBUTTON IDENTIFICATION



FUNCTION CHART – 115 VOLT CIRCUIT 1/						
CONDUCTOR			RING 1 – MULTI CONDUCTOR CABLE 20		RING 2 – MULTI CONDUCTOR CABLE 20 2/	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	–	SPARE	SPARE	SPARE	SPARE
2	WHITE	–	SPARE	SPARE	SPARE	SPARE
3	RED	–	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	–	PHASE 1 GREEN	GREEN TURN ARROW 4B, 4C	PHASE 5 GREEN	GREEN TURN ARROW 2B, 2C
5	ORANGE	–	PHASE 1 YELLOW	YELLOW TURN ARROW 4B, 4C	PHASE 5 YELLOW	YELLOW TURN ARROW 2B, 2C
6	BLUE	–	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 2M1, 2M2, 2A, 2B, 2C	PHASE 6 RED	RED BALL 4M1, 4M2, 4A, 4B, 4C
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2M1, 2M2, 2A, 2B, 2C	PHASE 6 GREEN	GREEN BALL 4M1, 4M2, 4A, 4B, 4C
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2M1, 2M2, 2A, 2B, 2C	PHASE 6 YELLOW	YELLOW BALL 4M1, 4M2, 4A, 4B, 4C
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK P6, P7	PHASE 6 WALK	PEDESTRIAN WALK P2, P3
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK P6 P7	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P2, P3
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	GREEN TURN ARROW 3B, 3C	PHASE 7 GREEN	GREEN TURN ARROW 1B, 1C
15	BLUE	WHITE	PHASE 3 YELLOW	YELLOW TURN ARROW 3B, 3C	PHASE 7 YELLOW	YELLOW TURN ARROW 1B, 1C
16	BLACK	RED	PHASE 4 RED	RED BALL 1M1, 1M2, 1A, 1B, 1C	PHASE 8 RED	RED BALL 3M1, 3M2, 3A, 3B, 3C
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 1M1, 1M2, 1A, 1B, 1C	PHASE 8 GREEN	GREEN BALL 3M1, 3M2, 3A, 3B, 3C
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 1M1, 1M2, 1A, 1B, 1C	PHASE 8 YELLOW	YELLOW BALL 3M1, 3M2, 3A, 3B, 3C
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK P4, P5	PHASE 8 WALK	PEDESTRIAN WALK P1, P8
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK P4, P5	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P1, P8

AS BUILT INFORMATION
CONTRACTOR RMCI, INC. DATE 7-14
SURVEYED BY KOTH SURVEYING, INC. DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of SF = 1.000334681 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C16," 1985" (published elevation = 5222.089').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL
NEIL H. HARWICK, NEW MEXICO, 14890, REGISTERED PROFESSIONAL ENGINEER
10-21-2013

NO.	DATE	REMARKS	BY
		AS BUILT REVISIONS	
		DESIGN	
	10-2013	DESIGNED BY	NKH
	10-2013	DRAWN BY	NKH
	10-2013	CHECKED BY	NKH

Harwick Transportation Group, Inc.
[illegible]

SEC JOB # 110203

SMITH ENGINEERING

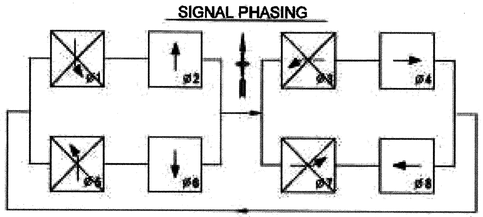
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
SAN PEDRO INTERSECTION - FUNCTION CHARTS

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-10D | Sheet 8 Of 8

SIGNAL PHASING

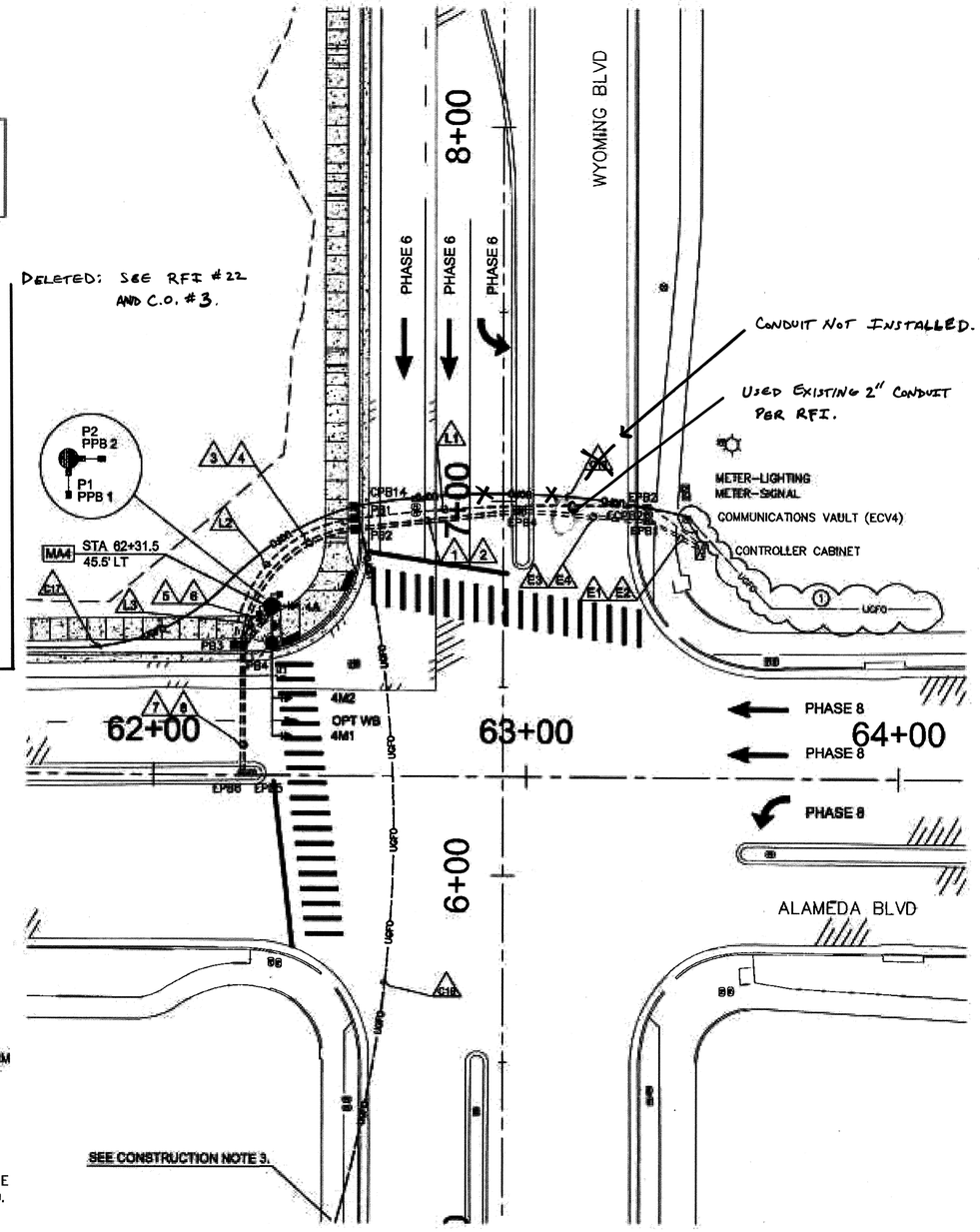


GENERAL NOTES:

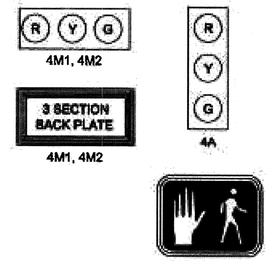
1. ALL SIGNAL POLE, PULL BOX, AND CABINET LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. ALL ADJUSTMENTS SHALL REQUIRE CONCURRENCE OF THE FIELD ENGINEER.
2. ALL VEHICLE DISPLAYS SHALL BE LED TYPE APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.
3. THE CONTRACTOR SHALL ENSURE THAT ALL MASTARM SIGNAL HEADS ARE LOCATED AS NEAR AS POSSIBLE TO THE CENTER OF THE LANE SERVED. ALL VERTICAL, POLE MOUNTED DISPLAYS SHALL BE DIRECTED TOWARD THE CENTER OF THE LANE(S) SERVED.
4. ALL PEDESTRIAN INDICATIONS SHALL BE MUTCD COMPLIANT LED COUNTDOWN TYPE APPROVED BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.
5. THE 'WYOMING BLVD' STREET NAME SIGN SHALL BE REMOVED FROM THE EXISTING MAST ARM AND REINSTALLED ON THE NEW MASTARM. THIS IS INCIDENTAL TO THE NEW SIGNAL CONSTRUCTION.
5. ~~THE VIDEO DETECTION CAMERA SHALL BE REMOVED FROM THE EXISTING MAST ARM AND REINSTALLED ON THE NEW MASTARM. THIS IS INCIDENTAL TO THE NEW SIGNAL CONSTRUCTION.~~
6. NO SPLICES SHALL BE PERMITTED WITHIN THE PULL BOXES FOR OPTICAL, VIDEO, OR LIGHTING COMPONENTS.
7. THIS PLAN INCLUDES BOTH SIGNALS AND ILLUMINATION.
8. ALL EQUIPMENT SHALL BE INSTALLED WITHIN EXISTING RIGHT-OF-WAY.
9. ALL FIELD SPLICES ARE INCIDENTAL TO CONSTRUCTION.
10. ALL FIELD SPLICES IN PULL BOXES SHALL USE GEL FILLED WIRE NUTS AND ARE INCIDENTAL TO CONSTRUCTION.
11. CRIMP CAPS (CLOSED END CONNECTORS) SHALL BE PLACED ON ALL UNUSED CONDUCTORS AND ARE INCIDENTAL TO CONSTRUCTION.

CONSTRUCTION NOTES:

1. ECPB2 ON THE EAST SIDE OF WYOMING BLVD SHALL BE ABANDONED. NEW CONDUIT (C18) SHALL BE INSTALLED FROM CPB14 DIRECTLY TO THE COMMUNICATION SPLICE VAULT (ECV4) ON THE EAST SIDE OF WYOMING BLVD.
2. THE NEW PULL BOX (CPB14) IN THE NORTHWEST QUADRANT AND CONDUIT SHALL BE INSTALLED PRIOR TO REMOVAL OF THE EXISTING FIBER OPTIC COMMUNICATIONS CABLE.
3. COMMUNICATIONS CONDUIT C19 WILL CONNECT FROM CPB14 TO AN EXISTING PULL BOX (ECPB1) IN THE SIDEWALK ON THE WEST SIDE OF WYOMING BLVD AT APPROXIMATELY STA 4+00. THE PULL BOX LOCATION IS SHOWN SCHEMATICALLY ON SHEET 7-14. THIS CONDUIT SHALL BE DIRECTIONALLY DRILLED.
4. THE EXISTING FIBER OPTIC COMMUNICATIONS SYSTEM IN WYOMING BLVD SHALL BE DISCONNECTED AT THE FUSION SPLICE IN COMMUNICATIONS VAULT ECV4. THE EXISTING FIBER OPTIC CABLE SHALL BE REMOVED AND REPLACED BETWEEN ALAMEDA BLVD AND WILSHIRE AVE. THE EXISTING FIBER OPTIC CABLE SHALL BE SALVAGED AND DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING AT PINO YARDS.



TYPICAL SIGNAL FACE LENS ARRANGEMENTS



APPROXIMATE POLE & PULL BOX LOCATIONS

ID#	TYPE	STATION	OFFSET
MA4*	TYPE III - 35'	STA 62+31.5	45.5 LT
PB1	LARGE	62+54	68.8 LT
PB2	LARGE	62+54	85.8 LT
PB3	LARGE	62+21	34.8 LT
PB4	LARGE	62+24	34.8 LT
CPB14	TYPE C	62+54	72.0 LT

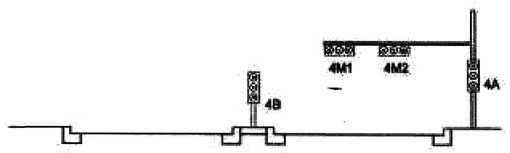
* MA4 CONTAINS A 10' LUMINAIRE ARM LENGTH

MASTARM SIGNAL SPACING

MASTARM	ARM LENGTH	NO. SIGNALS	SPACING*
MA4	35'	2	25', 35'

* MEASURED TO CENTER OF SIGNAL HOUSING IN FEET

SCHEMATIC SIGNAL CONFIGURATION BY APPROACH



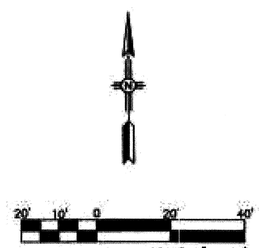
4 - WESTBOUND - ALAMEDA BLVD

ABBREVIATIONS

MA1	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
3A	SIGNAL HEAD NUMBER
P2	PEDESTRIAN SIGNAL NUMBER
PPB2	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
MH1	TRAFFIC MANHOLE NUMBER
CM1	COMMUNICATIONS MANHOLE NUMBER
PB1	PULL BOX NUMBER (SIGNALS/LIGHTING)
PBC1	PULL BOX NUMBER (COMMUNICATIONS)
PBS1	PULL BOX NUMBER (POWER)

SYMBOL KEY

MA1	CABINET, MASTARM, PEDESTAL POLE ID
M1	METER ID
CV1	COMMUNICATIONS VAULT ID
M1	CONDUIT RUN ID (SIGNAL / LIGHTING)
S1	CONDUIT RUN ID (POWER SERVICE)
E1	EXISTING CONDUIT RUN ID
C1	COMMUNICATION CONDUIT RUN



Harwick Transportation Group, Inc.
1440 Cerrillos Rd
Albuquerque, NM 87505

SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS
BUILDING FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr., NE
Building 1, Suite 220
Albuquerque, NM 87110
Phone: (505) 883-8181
Fax: (505) 883-8870

AS BUILT INFORMATION
CONTRACTOR: RMCI, INC. — DATE 7-14
SURVEYED BY: SURVEYS, INC. — DATE 7-14
INSPECTED BY: COA — DATE 7-14
ACCEPTANCE BY: COA — DATE 7-14
VERIFICATION BY: SMITH ENGINEERING CO. — DATE 7-14
DRAWINGS REVIEWED BY:
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334981 around an angle of 0.0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C16, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE
11599 | SURVEYING CONTROL, INC. | 11/2000

ENGINEERS' SEAL
NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
NEIL H. HAWKINS 14880
12-6-12

EXISTING FIBER OPTIC CABLE
11/5/2013

NO.	DATE	REMARKS	BY
		REVISIONS	NHH
		DESIGN	NHH
		DESIGNED BY	NHH
		DRAWN BY	NHH
		CHECKED BY	NHH

DATE 12-2012 (DESIGN) · DATE 12-2012 (DRAWN) · DATE 12-2012 (CHECKED)

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
WYOMING/ALAMEDA INTERSECTION SIGNAL LAYOUT

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-11 | Sheet 54 Of 84

CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE

CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE

RUN ID ##	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC #2 (# @ FT)	CSCC #6* (# @ FT)	SCC #6 (# @ FT)	SCC #10 (# @ FT)	BARE #10 [1] (# @ FT)	VIDEO COAX (# @ FT)	VIDEO POWER (# @ FT)	OPTICOM (# @ FT)
EXISTING CONDUIT (CONDUIT QUANTITIES NOT INCLUDED)																
E1			(20)	REC	CC1 TO EPB1	1 @ 25		2 @ 25		2 @ 25						
E2			(20)	REC	CC1 TO EPB1									1 @ 25	1 @ 25	1 @ 25
E3			(35)	REC	EPB1 TO EPB4	1 @ 40		2 @ 40		2 @ 40						
E4			(35)	REC	EPB1 TO EPB4									1 @ 40	1 @ 40	1 @ 40
1			50	REC	EPB4 TO PB2	1 @ 55		2 @ 55		2 @ 55						
2			50	REC	EPB4 TO PB2									1 @ 55	1 @ 55	1 @ 55
3			50	REC	PB2 TO PB4	1 @ 55		2 @ 55		2 @ 55						
4			50	REC	PB2 TO PB4									1 @ 55	1 @ 55	1 @ 55
5			20	REC	PB4 TO MA4	1 @ 25		1 @ 25		2 @ 25						
6			20	REC	PB4 TO MA4									1 @ 25	1 @ 25	1 @ 25
7			40	REC	PB4 TO EPB6	1 @ 45		2 @ 45		2 @ 45						
8			40	REC	PB4 TO EPB6								1 @ 45			
L1		85		REC	EPB2 TO PB1						2 @ 90					
L2		50		REC	PB1 TO PB3						2 @ 55					
L3		20		REC	PB3 TO MA4						2 @ 25					
MASTARM 4 - 35'																
MA4					BASE TO 4M1	1 @ 60										
MA4					BASE TO 4M2	1 @ 50										
MA4					BASE TO 4A	1 @ 15										
MA4					BASE TO PB1 & PB2	2 @ 10										
MA4					BASE TO P1 & P2	2 @ 15										
MA4					BASE TO OPTICOM											1 @ 55
MA4					BASE TO VIDEO CAMERA									1 @ 45	1 @ 45	
MA4					BASE TO LUMINAIRE							2 @ 50				
TOTAL		155	320			395		465		490	340	100	45	245	245	255

** CSCC SHALL USE ONE GREEN AND ONE WHITE #6 CONDUCTOR.

1 - THESE QUANTITIES ARE INCLUDED FOR PLANNING PURPOSES ONLY AND THE ITEMS ARE INCIDENTAL TO CONSTRUCTION.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTION & FIELD CHANGES BY COA DATE 7-14

FIELD VERIFICATION BY COA DATE 7-14

DRAWING CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

The coordinates and elevations are US Survey Feet.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.00033496] around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL

KENNETH K. HARWICK NEW MEXICO 14380 REGISTERED PROFESSIONAL ENGINEER

12-13-2012

NO.	DATE	REMARKS	BY
		REVISIONS	
	DATE	DESIGN	
DESIGNED BY	NKH	12-2012	
DRAWN BY	NKH	DATE 12-2012	
CHECKED BY	NKH	DATE 12-2012	

Harwick Transportation Group, Inc.
1440 Camino Carrito SE
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(505) 228-9776

SEC JOB # 110203

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Phone: (505) 884-9700 Fax: (505) 884-2376
COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

WYOMING INTERSECTION - CONDUIT AND CONDUCTOR RUNS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91

Zone Map No. C-18/C-19

Drawing No. 7-12

Sheet 55 Of 84

NOTES:

1/ IDENTIFY CONDUCTORS LISTED AS "115 VOLTS".

2/ WRAP RING 2 CABLE AT EACH SPLICE POINT WITH COLORED ELECTRICAL TAPE. THE IDENTIFICATION MARKING SHALL BE PROVIDED ON EACH RING 2 CABLE AT EACH SPLICE AND LOCATED 6" BACK FROM THE END.

3/ IDENTIFY CONDUCTORS LISTED AS "PPB – LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLE SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.

OPTICOM LEAD-IN CABLE

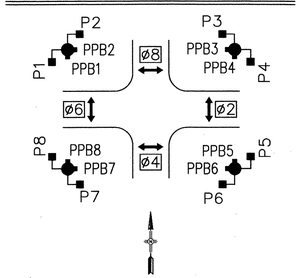
FROM	TO	CONDUIT TRACE	LENGTH*
MA4	CONTROLLER	6, 4, 2, E4, E2	200'

* LENGTH EXCLUDES CABLE WITHIN THE POLE AND MASTARM.

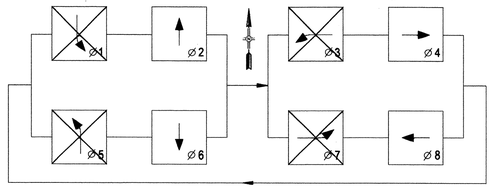
FUNCTION CHART – 24 VOLT CIRCUIT 3/

CONDUCTOR			
NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2 PPB	PPB3 & PPB6
2	WHITE	COMMON	PPB1 THROUGH PPB8
3	RED	PHASE 8 PPB	PPB1 & PPB4
4	GREEN	PHASE 6 PPB	PPB2 & PPB7
5	ORANGE	PHASE 4 PPB	PPB5 & PPB8

PEDESTRIAN SIGNAL & PUSHBUTTON IDENTIFICATION



SIGNAL PHASING



FUNCTION CHART – 115 VOLT CIRCUIT 1/

CONDUCTOR			RING 1 – MULTI CONDUCTOR CABLE 20		RING 2 – MULTI CONDUCTOR CABLE 20 2/	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	–	SPARE	SPARE	SPARE	SPARE
2	WHITE	–	SPARE	SPARE	SPARE	SPARE
3	RED	–	PHASE 1 RED	SPARE	PHASE 5 RED	SPARE
4	GREEN	–	PHASE 1 GREEN	SPARE	PHASE 5 GREEN	SPARE
5	ORANGE	–	PHASE 1 YELLOW	SPARE	PHASE 5 YELLOW	SPARE
6	BLUE	–	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL EXISTING	PHASE 6 RED	RED BALL EXISTING
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL EXISTING	PHASE 6 GREEN	GREEN BALL EXISTING
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL EXISTING	PHASE 6 YELLOW	YELLOW BALL EXISTING
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRIAN WALK EXISTING	PHASE 6 WALK	PEDESTRIAN WALK P1, P8
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRIAN DON'T WALK EXISTING	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P1, P8
13	RED	WHITE	PHASE 3 RED	SPARE	PHASE 7 RED	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	SPARE	PHASE 7 GREEN	SPARE
15	BLUE	WHITE	PHASE 3 YELLOW	SPARE	PHASE 7 YELLOW	SPARE
16	BLACK	RED	PHASE 4 RED	RED BALL EXISTING	PHASE 8 RED	RED BALL 4M1, 4M2, 4A
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL EXISTING	PHASE 8 GREEN	GREEN BALL 4M1, 4M2, 4A
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL EXISTING	PHASE 8 YELLOW	YELLOW BALL 4M1, 4M2, 4A
19	BLUE	RED	PHASE 4 WALK	PEDESTRIAN WALK EXISTING	PHASE 8 WALK	PEDESTRIAN WALK P2, P3
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRIAN DON'T WALK EXISTING	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P2, P3

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
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ABBREVIATIONS

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PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CAM	VIDEO CAMERA
PS	PULL STRING

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY: CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTED FOR ACCEPTANCE BY: COA DATE 7-14

FIELD VERIFICATION BY: COA DATE 7-14

DRAWINGS CORRECTED BY: SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface)

N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL

NEIL K. HARWICK NEW MEXICO 14360 REGISTERED PROFESSIONAL ENGINEER

12-18-2012

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY NKH	DATE 12-2012
		DRAWN BY NKH	DATE 12-2012
		CHECKED BY NKH	DATE 12-2012

Harwick Transportation Group, Inc.
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Albuquerque, NM 87123
(505) 228-9776

SEC JOB # 110203

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COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

WYOMING INTERSECTION - FUNCTION CHARTS

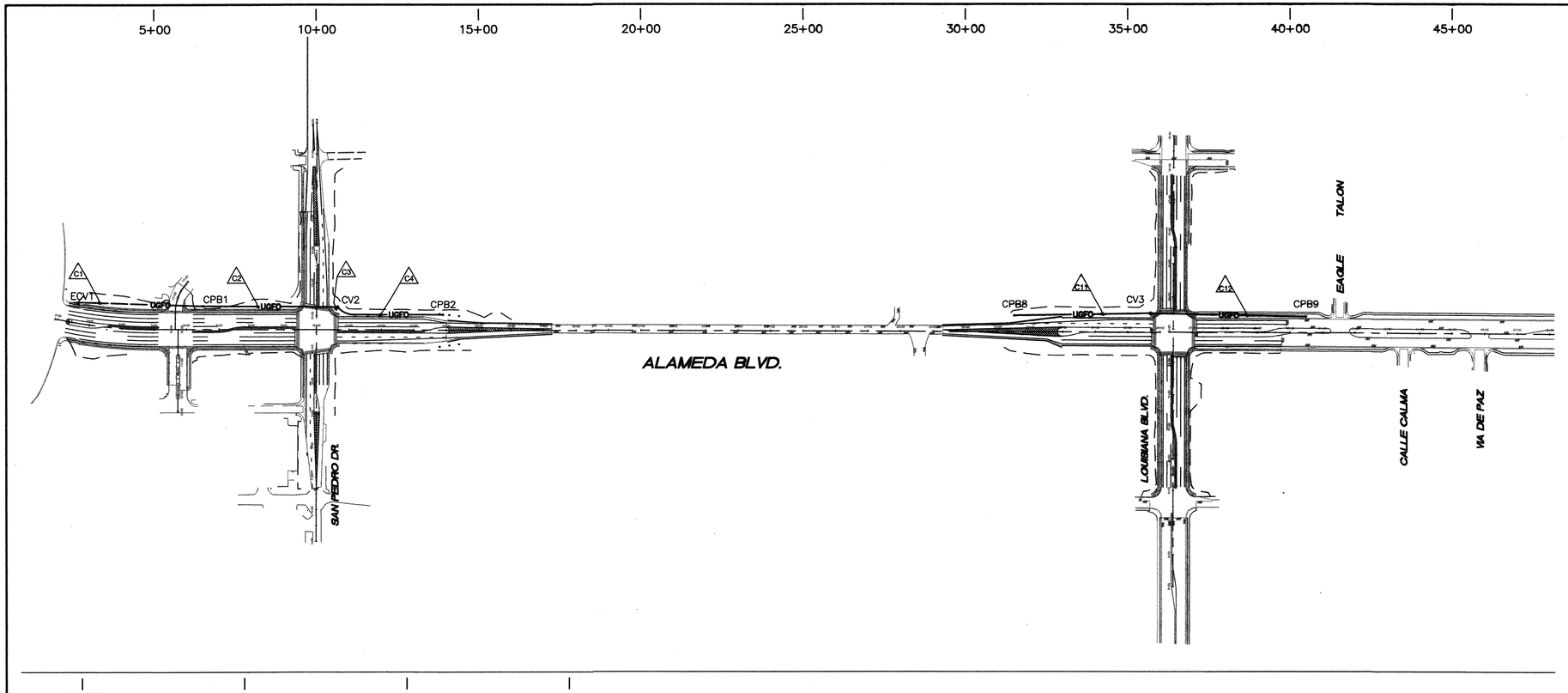
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

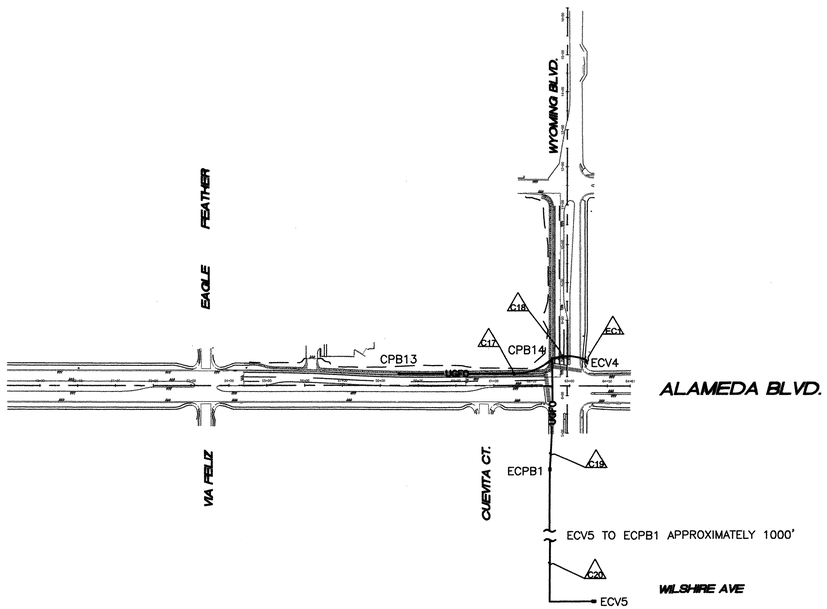
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-13 | Sheet 56 Of 84





APPROXIMATE PULL BOX LOCATIONS

ID#	TYPE	STATION	OFFSET
ECV1	SPLICE VAULT	STA 2+47	61.5 L
CPB1	TYPE C	STA 6+50	71.3 L
CV2	SPLICE VAULT	STA 10+65	69.9 L
CPB2	TYPE C	STA 13+90	46.9 L
CPB8	TYPE C	STA 31+50	49.0 L
CV3	SPLICE VAULT	STA 35+70	57.0 L
CPB9	TYPE C	STA 40+50	49.0 L
CPB13	TYPE C	STA 58+50	31.2 L
CPB14	TYPE C	STA 62+54	72.1 L
ECV4	SPLICE VAULT	STA 63+44	69.3 L
ECPB1	LARGE	STA 4+00	45.7 L
ECV5	SPLICE VAULT	SE QUADRANT-WILSHIRE AVE	

E - PREFIX REPRESENTS EXISTING DEVICES.

CONSTRUCTION NOTES:

1. INSTALL A 6 SMFO CABLE FROM THE COMMUNICATION CONTROL CABINET AT I-25/ALAMEDA TO THE SIGN CONTROLLER AT SAN PEDRO/ALAMEDA. THIS INSTALLATION SHALL INCLUDE LOCATOR WIRES, FAN-OUT KITS, AND PATCH CORDS WHICH ARE INCIDENTAL TO CONSTRUCTION.
2. A #10 AWG LOCATER WIRE SHALL BE INCLUDED IN ALL CONDUITS AND IS INCIDENTAL TO CONSTRUCTION.

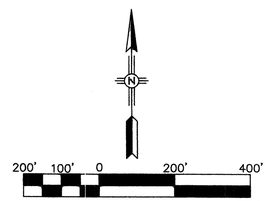
COMMUNICATIONS LEGEND

NEW	EXISTING	ITEM
■	PB	PULL BOX
M 1	EM	METER PEDESTAL
CC1	CC1	CONTROLLER CABINET
●	PB	COMMUNICATIONS VAULT
———	———	CONDUIT RUN (COMMUNICATIONS)
C1	C1	CONDUIT RUN NUMBER (COMMUNICATIONS)

REPLACED WITH: AA2 SHEET 7-2, 19-AA2/25.

COMMUNICATION SYSTEM NOTES

1. ALL PULL BOX AND COMMUNICATION SPLICE VAULT LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD SHOULD CONFLICTS ARISE. ALL ADJUSTMENTS SHALL REQUIRE CONCURRENCE OF THE FIELD ENGINEER.
2. ALL FIBER OPTIC CABLE SHALL RUN CONTINUOUSLY BETWEEN SPLICE VAULTS. FIBER OPTIC SPLICES SHALL NOT BE PERMITTED IN PULL BOXES.
3. THE ALAMEDA BLVD COMMUNICATIONS CONDUIT SHALL TERMINATE AT THE COMMUNICATIONS SPLICE VAULT (ECV4) AT THE WYOMING BLVD INTERSECTION.
4. NO 96 SMFO FIBER OPTIC CABLE SHALL BE INSTALLED IN ALAMEDA BLVD BETWEEN ECV1 AND CPB14. A #10 AWG LOCATOR WIRE SHALL BE INSTALLED WHERE CONDUIT IS INSTALLED. THE LOCATOR WIRE IS INCIDENTAL TO CONSTRUCTION.
5. COMMUNICATIONS CONDUIT C19 WILL CONNECT FROM CPB14 TO AN EXISTING PULL BOX (ECPB1) IN THE SIDEWALK ON THE WEST SIDE OF WYOMING BLVD AT APPROXIMATELY STA 4+00. THE EXISTING PULL BOX LOCATION IS SHOWN SCHEMATICALLY ON THIS SHEET. THIS CONDUIT SHALL BE DIRECTIONALLY DRILLED.
6. COMMUNICATIONS CONDUIT C20 IS EXISTING CONDUIT, INCLUDING THREE PULL BOXES, FROM WYOMING BLVD STA 4+00 TO THE COMMUNICATIONS VAULT (ECV5) AT THE WILSHIRE AVE INTERSECTION.
7. THE EXISTING FIBER OPTIC COMMUNICATIONS SYSTEM IN WYOMING BLVD SHALL BE DISCONNECTED AT THE WYOMING BLVD-ALAMEDA BLVD COMMUNICATIONS VAULT (ECV4) AND AT THE WYOMING BLVD-WILSHIRE AVE COMMUNICATIONS VAULT (ECV5). NEW FIBER OPTIC CABLE SHALL BE PULLED THROUGH EXISTING CONDUITS AND NEW CONDUITS - C18, C19 AND C20. THE COMMUNICATIONS SYSTEM SHALL BE DISCONNECTED FOR NO MORE THAN SEVEN (7) CONSECUTIVE DAYS.
8. THE NEW FIBER OPTIC CABLE SHALL HAVE FULL FUSION RESPLICES AT THE WILSHIRE AVE AND ALAMEDA BLVD INTERSECTIONS. NO SPLICING OF THIS CABLE SHALL BE PERMITTED BETWEEN THE COMMUNICATIONS VAULTS. SHOULD THE UPSTREAM, DOWNSTREAM, OR 6 SMFO CABLE SPLICES BE DAMAGED, CORRECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT THEIR EXPENSE.
9. THIS SHEET IS VOID IF ADDATIVE ALTERNATE 2 IS IMPLEMENTED THROUGH THIS CONTRACT. IT SHALL BE REPLACED BY SHEET 7-~~14~~ 2, 19-AA2.



Harwick Transportation Group, Inc.
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Albuquerque, NM 87123
(505) 228-9776

SEC JOB # 110203

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Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0760
Fax: (505) 884-2376
COLORADO NEW MEXICO TEXAS

AS BUILT INFORMATION

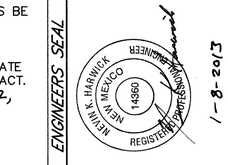
	CONTRACTOR	RMCI, INC.	
BENCH MARKS	WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
Coordinates shown hereon are modified (surface)	ASBUILT CHECKED BY	COA	DATE 7-14
N.M. State Plane Coordinates - Central Zone,	FIELD VERIFICATION BY	COA	DATE 7-14
NAD 83 and were derived by scaling State	DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14
Plane grid coordinates by the project average	MICRO-FILM INFORMATION		
combined factor of CF = 1.000334961 around	RECORDED BY		DATE
an origin of 0,0. Elevations are NAVD 88, and	NO.		
are adjusted to the NGS Control Station "10-C18,			
1985" (published elevation = 5222.090').			
The coordinates and elevations are US Survey Feet.			

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL



NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY NKH	DATE 12-2012
		DRAWN BY NKH	DATE 12-2012
		CHECKED BY NKH	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA CORRIDOR COMMUNICATIONS LAYOUT

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-14	57	84

COMMUNICATIONS CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE

CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE

RUN ID (##)	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS	6 SMFO (# @ FT)	96 SMFO (# @ FT)	BARE #10 [1] (# @ FT)
EXISTING CONDUIT (CONDUIT QUANTITIES NOT INCLUDED)								
C1			410	REC	ECV1 TO CPB1	1 @ 460		1 @ 415
C2			425	REC	CPB1 TO CV2 (SAN PEDRO)	1 @ 475		1 @ 430
C3			10	REC	CV2 TO CC1 (SAN PEDRO)	1 @ 15		1 @ 15
C4			335	REC	CV2 TO CPB2			1 @ 340
C11			430	REC	CPB8 TO CV3 (LOUISIANA)			1 @ 435
C12			490	REC	CV3 TO CPB9			1 @ 495
C17			420	REC	CPB13 TO CPB14			1 @ 425
C18			110	REC	CPB14 TO ECV4		1 @ 160	1 @ 115
EC1			(15)	REC	ECV4 TO CC1 (WYOMING)	(1 @ 25)		(1 @ 20)
C19			305	REC	ECPB1 TO CPB14		1 @ 315	1 @ 310
C20**			(1050)	REC	ECPB1 TO ECV5 (WILSHIRE)		1 @ 1130	1 @ 1070
TOTAL			2935			960	1605	4050

** INCLUDES EXISTING CONDUIT AND THREE PULL BOXES FROM WYOMING BLVD STA 4+00 TO THE COMMUNICATION VAULT AT WILSHIRE AVE.

1 - THESE QUANTITIES ARE INCLUDED FOR PLANNING PURPOSES ONLY AND THE ITEMS ARE INCIDENTAL TO CONSTRUCTION.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
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REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

REPLACED WITH:
AA2 SHEET 7-3, 20-AA2/25.

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Albuquerque, NM 87123
(505) 228-9776

SEC JOB # 110203

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Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
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COLORADO NEW MEXICO TEXAS

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

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The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL

KEVIN S. HARWICK NEW MEXICO 14360 REGISTERED PROFESSIONAL ENGINEER
1-8-2013

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DESIGNED BY	NKH	DATE 12-2012
	DRAWN BY	NKH	DATE 12-2012
	CHECKED BY	NKH	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

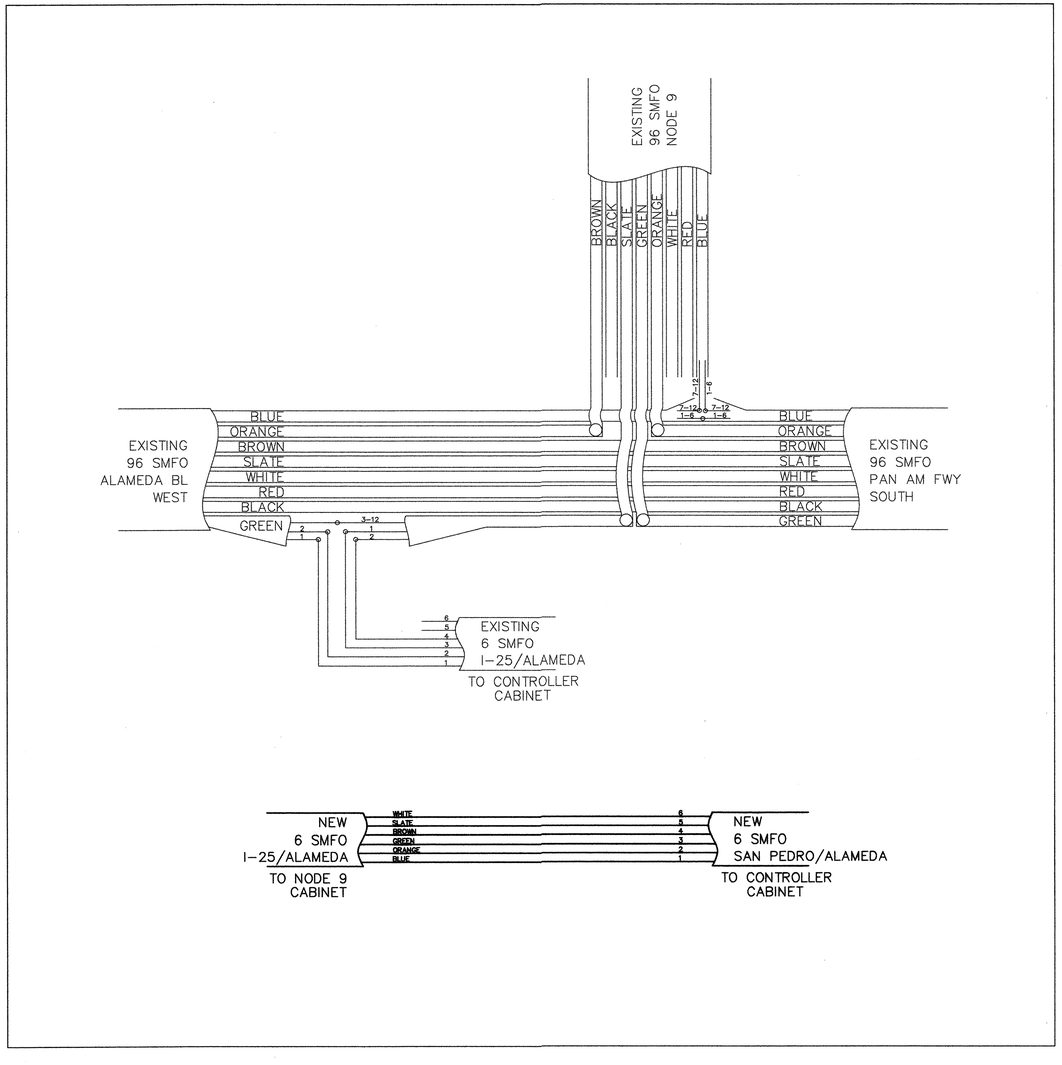
ALAMEDA COMMUNICATION SYSTEM - CONDUIT AND CONDUCTOR RUNS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-15 | Sheet 58 Of 84

EXISTING SPLICE CLOSURE (#91) – ECV1
I–25 (PAN AMERICAN FWY) @ ALAMEDA BLVD



SPLICE DETAIL NOTES:

1. THE DIAGRAM ON THIS SHEET IS SCHEMATIC. FOR FULL SPLICES, EACH OF THE BUFFER TUBES SHALL BE SPLICED BY INDIVIDUAL FIBER STRAND WITHIN THE TUBE.
2. THE FIBER OPTIC CABLE INSTALLATION FROM THE COMMUNICATIONS CABINET AT I–25/ALAMEDA (NODE 9) SHALL INCLUDE A 6 SMFO CABLE WITH A #10 LOCATOR WIRE. THIS IS A TEMPORARY CONNECTION AND SHALL REQUIRE FAN–OUT KITS AND PATCH CORDS FOR EACH CONTROL CABINET. FAN–OUT KITS AND PATCH CORDS SHALL BE APPROVED BY CITY OF ALBUQUERQUE TRAFFIC ENGINEERING AND ARE INCIDENTAL TO CONSTRUCTION.
3. THE PORT(S) FOR COMMUNICATION SYSTEM CONNECTION AT EACH NODE SHALL BE IDENTIFIED BY CITY OF ALBUQUERQUE TRAFFIC ENGINEERING PRIOR TO CONNECTION.
4. THE COMMUNICATIONS SYSTEM SHALL NOT BE DISCONNECTED TO INSTALL FIBER FOR THE SAN PEDRO DR INTERSECTION.
5. THE IDENTIFICATION NUMBER OF THE TRANSMIT AND RECEIVE STRANDS ON EACH OF THE CABLES IS ASSUMED BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THESE STRANDS PRIOR TO INSTALLATION AND NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OF ANY DISCREPANCY.
6. THE NEW COMMUNICATIONS SYSTEM CABLE SHALL BE TESTED TO VERIFY THAT CABLING AND SPLICES MEET CITY SPECIFICATIONS. BIDIRECTIONAL TESTING AT THE I–25/ALAMEDA BL AND SAN PEDRO DR/ALAMEDA BL INTERSECTIONS SHALL BE LIMITED TO THE NEW 6 SMFO CABLE. SEE CITY OF ALBUQUERQUE SPECIFICATIONS FOR DETAILS.

FIBER OPTIC BUFFER TUBE REFERENCE

NUMBER	COLOR	CABLE
1	BLUE	6 AND 96 SMFO
2	ORANGE	6 AND 96 SMFO
3	GREEN	6 AND 96 SMFO
4	BROWN	6 AND 96 SMFO
5	SLATE	6 AND 96 SMFO
6	WHITE	6 AND 96 SMFO
7	RED	96 SMFO
8	BLACK	96 SMFO
9	YELLOW	96 SMFO
10	VIOLET	96 SMFO
11	ROSE	96 SMFO
12	AQUA	96 SMFO

COLOR ASSIGNMENTS ARE ESTIMATED AND SHALL BE VERIFIED WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.

COMMUNICATIONS LEGEND

NEW	EXISTING	ITEM
●	○	FUSION SPLICE

REPLACED WITH: AA2 SHEET 7-4, 21-AA2/25.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING
SMFO	SINGLE MODE FIBER OPTIC

WARNING: LASER LIGHT IS INVISIBLE AND CAN DAMAGE YOUR EYES. VIEWING IT DIRECTLY DOES NOT CAUSE PAIN. THE IRIS OF THE EYE WILL NOT CLOSE VOLUNTARILY AS WHEN VIEWING A BRIGHT LIGHT; THEREFORE, SERIOUS DAMAGE TO THE RETINA IS POSSIBLE. NEVER LOOK DIRECTLY INTO A FIBER WHICH MAY BE ATTACHED TO A LASER SOURCE. SHOULD ACCIDENTAL EXPOSURE TO LASER LIGHT BE SUSPECTED, ARRANGE FOR AN IMMEDIATE EYE EXAM.

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
ASBUILTS BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone.
NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL
KEVIN K. HARWICK NEW MEXICO 14360 REGISTERED PROFESSIONAL ENGINEER
1-8-2013

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	NKH	DATE 12-2012	
DRAWN BY	NKH	DATE 12-2012	
CHECKED BY	NKH	DATE 12-2012	

Harwick Transportation Group, Inc.
1440 Camino Cerrito SE
Albuquerque, NM 87123
(505) 238-9776

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2270
COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

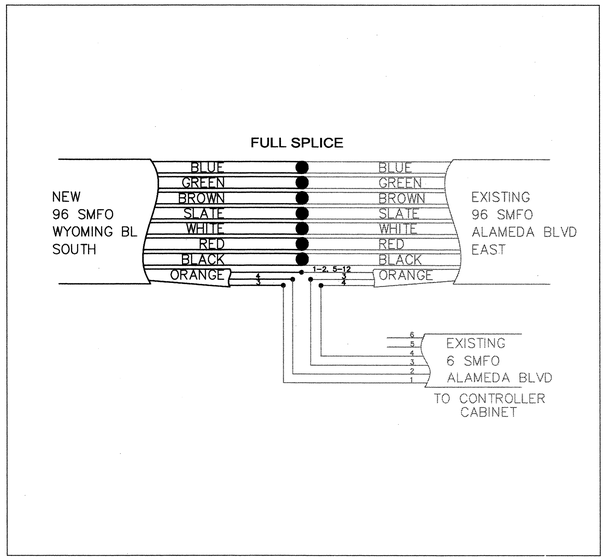
ALAMEDA COMMUNICATION SYSTEM - SPLICE DETAILS 1

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

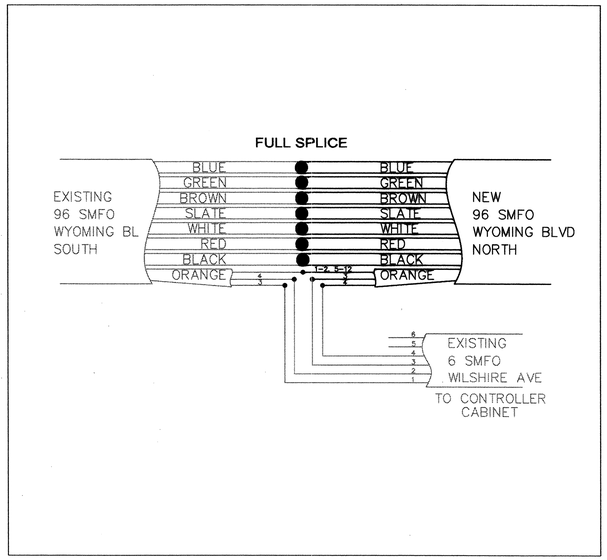
No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91
Zone Map No. C-18/C-19
Drawing No. 7-16
Sheet 59 Of 84

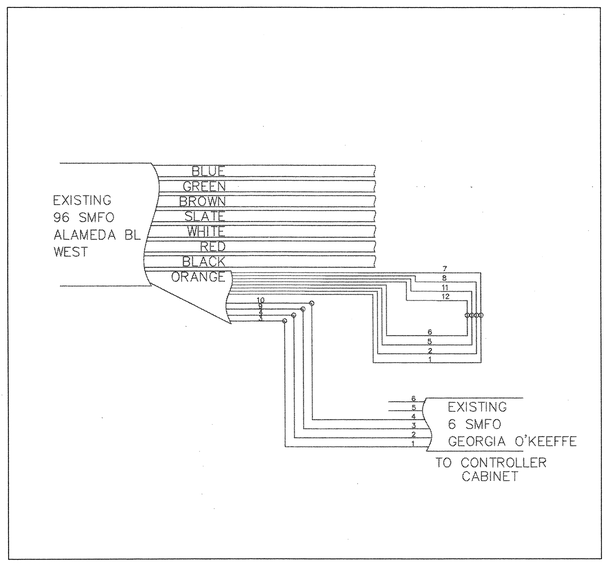
EXISTING SPLICE CLOSURE (#103) – ECV4
WYOMING BLVD @ ALAMEDA BLVD



EXISTING SPLICE CLOSURE (#104) – ECV5
WYOMING BLVD @ WILSHIRE AVE



EXISTING SPLICE CLOSURE (#112)
ALAMEDA BLVD @ GEORGIA O'KEEFFE



THIS INTERSECTION DIAGRAM FOR INFORMATION ONLY.

WARNING: LASER LIGHT IS INVISIBLE AND CAN DAMAGE YOUR EYES. VIEWING IT DIRECTLY DOES NOT CAUSE PAIN. THE IRIS OF THE EYE WILL NOT CLOSE VOLUNTARILY AS WHEN VIEWING A BRIGHT LIGHT; THEREFORE, SERIOUS DAMAGE TO THE RETINA IS POSSIBLE. NEVER LOOK DIRECTLY INTO A FIBER WHICH MAY BE ATTACHED TO A LASER SOURCE. SHOULD ACCIDENTAL EXPOSURE TO LASER LIGHT BE SUSPECTED, ARRANGE FOR AN IMMEDIATE EYE EXAM.

SPLICE DETAIL NOTES

1. THE DIAGRAMS ON THIS SHEET ARE SCHEMATIC. FOR FULL SPLICES, EACH OF THE BUFFER TUBES SHALL BE SPLICED BY INDIVIDUAL FIBER STRAND WITHIN THE TUBE.
2. THE EXISTING FIBER OPTIC COMMUNICATIONS SYSTEM IN WYOMING BLVD SHALL BE DISCONNECTED AT THE WYOMING BLVD–ALAMEDA BLVD COMMUNICATIONS VAULT (ECV4) AND THE WYOMING BLVD–WILSHIRE AVE COMMUNICATIONS VAULT (ECV5). THE FIBER OPTIC CABLE SHALL BE REMOVED BETWEEN THESE TWO VAULTS AND NEW FIBER OPTIC CABLE REPLACED THROUGH NEW AND EXISTING CONDUITS – C18, C19, AND C20. (SEE SHEET 7–14.)
3. THE NEW 96 SMFO FIBER OPTIC CABLE SHALL BE FULLY RESPLICED AT THE WILSHIRE AVE AND ALAMEDA BLVD INTERSECTIONS. NO SPLICING OF THIS CABLE SHALL BE PERMITTED BETWEEN THESE COMMUNICATIONS VAULTS.
4. THE COMMUNICATIONS SYSTEM SHALL BE DISCONNECTED FOR NO MORE THAN SEVEN (7) CONSECUTIVE DAYS.
5. THE IDENTIFICATION NUMBER OF THE TRANSMIT AND RECEIVE STRANDS ON EACH OF THE CABLES IS ASSUMED BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THESE STRANDS PRIOR TO INSTALLATION AND NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OF ANY DISCREPANCY.
6. THE COMMUNICATIONS SYSTEM SHALL BE TESTED TO VERIFY THAT CABLING AND SPLICES MEET CITY SPECIFICATIONS. BIDIRECTIONAL TESTING SHALL BE CONDUCTED FOR ALL SPLICED FIBERS FROM UP TO THREE VAULT LOCATIONS. THE FOLLOWING VAULT LOCATIONS ARE ESTIMATED AND SUBJECT TO CHANGE PER CITY OF ALBUQUERQUE TRAFFIC ENGINEERING:
   - PASEO DEL NORTE/WYOMING BLVD
   - ALAMEDA BLVD/GEORGIA O'KEEFFE
   - ALAMEDA BLVD/I–25 NODE CABINET
7. TEST CONNECTORS SHALL BE INSTALLED ON THE FIBER STRANDS OF THE SEVEN (7) UNUSED BUFFER TUBES AT THE GEORGIA O'KEEFFE INTERSECTION FOR TESTING. THESE TEST CONNECTORS ARE INCIDENTAL TO THE COMMUNICATION SYSTEM TESTING.

FIBER OPTIC BUFFER TUBE REFERENCE

NUMBER	COLOR	CABLE
1	BLUE	6 AND 96 SMFO
2	ORANGE	6 AND 96 SMFO
3	GREEN	6 AND 96 SMFO
4	BROWN	6 AND 96 SMFO
5	SLATE	6 AND 96 SMFO
6	WHITE	6 AND 96 SMFO
7	RED	96 SMFO
8	BLACK	96 SMFO
9	YELLOW	96 SMFO
10	VIOLET	96 SMFO
11	ROSE	96 SMFO
12	AQUA	96 SMFO

COLOR ASSIGNMENTS ARE ESTIMATED AND SHALL BE VERIFIED WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.

COMMUNICATIONS LEGEND

NEW	EXISTING	ITEM
●	○	FUSION SPLICE

REPLACED WITH:
AA2 SHEET 7-5, 22-AA2/25.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING
SMFO	SINGLE MODE FIBER OPTIC

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.090').

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL

KEVIN K. HARWICK, NEW MEXICO, 14360, REGISTERED PROFESSIONAL ENGINEER
12-13-2012

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY NKH	DATE 12-2012
		DRAWN BY NKH	DATE 12-2012
		CHECKED BY NKH	DATE 12-2012

The coordinates and elevations are US Survey Feet.

Harwick Transportation Group, Inc.
1440 Camino Cerrito SE
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(505) 228-9778

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Fax: (505) 884-2376
COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

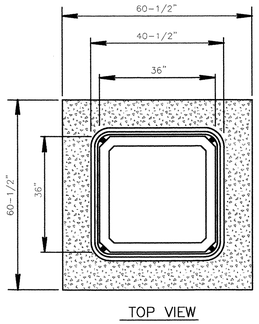
TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA COMMUNICATION SYSTEM - SPLICE DETAILS 2

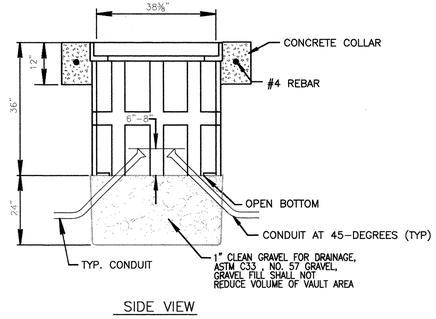
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

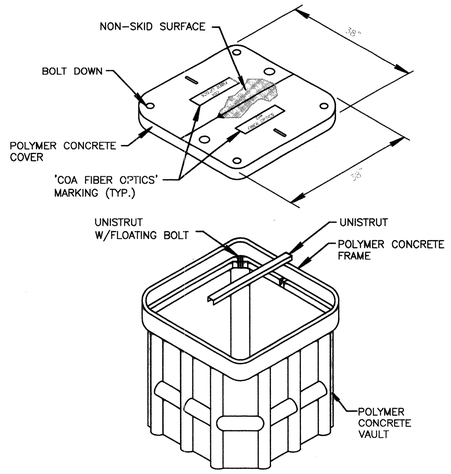
City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-17 | Sheet 60 Of 84



TOP VIEW



SIDE VIEW



POLYMER MORTAR VAULT AND COVER NOTES:

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMERAND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICALPROPERTIES: COMPRESSIVE STRENGTH – 11,000 PSI, TENSILE STRENGTH– 1,700 PSI, FLEXURAL STRENGTH – 7,500 PSI.
2. ALL VAULT COVERS SHALL BE HEAVY DUTY REINFORCED POLYMERMORTAR, HAVING A SERVICE LOAD OF 22,568 LBS OVER 10" SQUARE(225 PSI).
3. VAULT MARKINGS SHALL BE APPROVED BY THE PROJECT MANAGER.4.THE DIMENSIONS OF THE VAULT ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.5.VAULT SHALL HAVE A TWO PIECE COVER.

CONCRETE COLLAR NOTES:

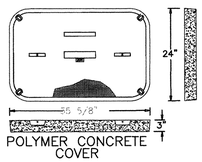
1. ELEVATION OF TOP OF VAULT SHALL BE EQUAL WITH TOP OF CURB, OR PAVEMENT EDGE IN LOCATIONS WITHOUT CURB.
2. THE CONCRETE IN THE COLLAR SHALL BE PER SEC 101, EXTERIOR CONCRETE, f'c=3500 PSI AT 28 DAYS.
3. THE CONCRETE COLLAR SHALL BE CONSIDERED INCIDENTAL TO THE VAULT BID ITEM.

ABBREVIATIONS

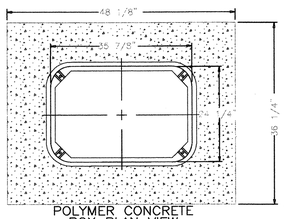
MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING
SMFO	SINGLE MODE FIBER OPTIC

NOTES:

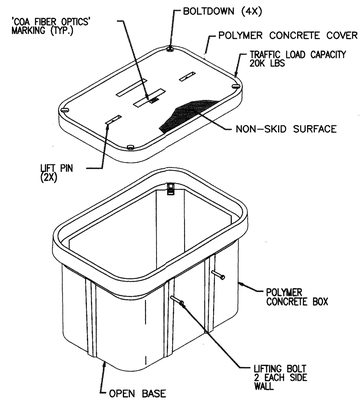
1. THE DIAGRAMS ON THIS SHEET WERE PROVIDED BY THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING.



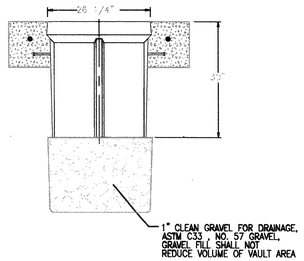
POLYMER CONCRETE COVER



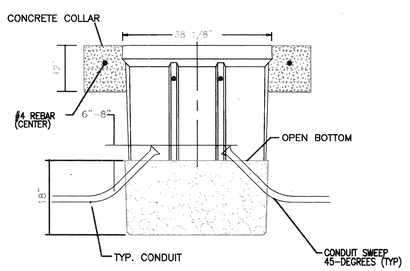
POLYMER CONCRETE BOX PLAN VIEW



APPROX. WT. 376 LBS.



END VIEW



SIDE VIEW

POLYMER MORTAR PULL BOX AND COVER NOTES:

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMERAND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICALPROPERTIES: COMPRESSIVE STRENGTH – 11,000 PSI, TENSILE STRENGTH– 1,700 PSI, FLEXURAL STRENGTH – 7,500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMERMORTAR, HAVING A SERVICE LOAD OF 22,568 LBS OVER 10" SQUARE(225 PSI).
3. PULL BOX MARKINGS SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
5. ELECTRICAL PULL BOX SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 24" X 35 5/8" X 3".

CONCRETE COLLAR NOTES:

1. ELEVATION OF TOP OF PULL BOX SHALL BE EQUAL WITH TOP OF CURB, OR PAVEMENT EDGE IN LOCATIONS WITHOUT CURB.
2. THE CONCRETE IN THE COLLAR SHALL BE PER SEC 101, EXTERIOR CONCRETE, f'c=3500 PSI AT 28 DAYS.
3. THE CONCRETE COLLAR SHALL BE CONSIDERED INCIDENTAL TO THE PULL BOX BID ITEM.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone,
NAD 83 and were derived by scaling State
Plane grid coordinates by the project average
combined factor of CF = 1.000334961 around
an origin of 0,0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "10-C18,
1985" (published elevation = 5222.090').

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
	DATE 12-2012		DESIGNED BY NKH
	DATE 12-2012		DRAWN BY NKH
	DATE 12-2012		CHECKED BY NKH

Harwick Transportation Group, Inc.
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SEC JOB # 110203

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COLORADO NEW MEXICO TEXAS

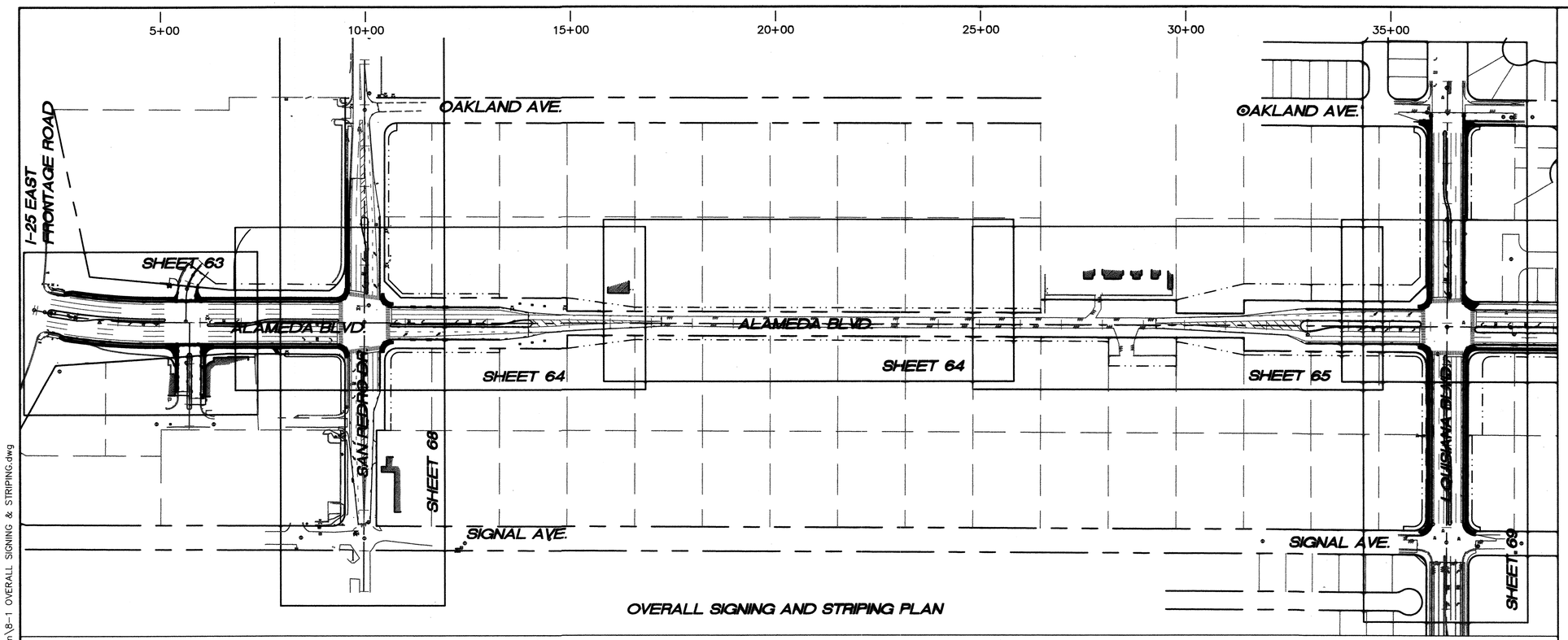
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

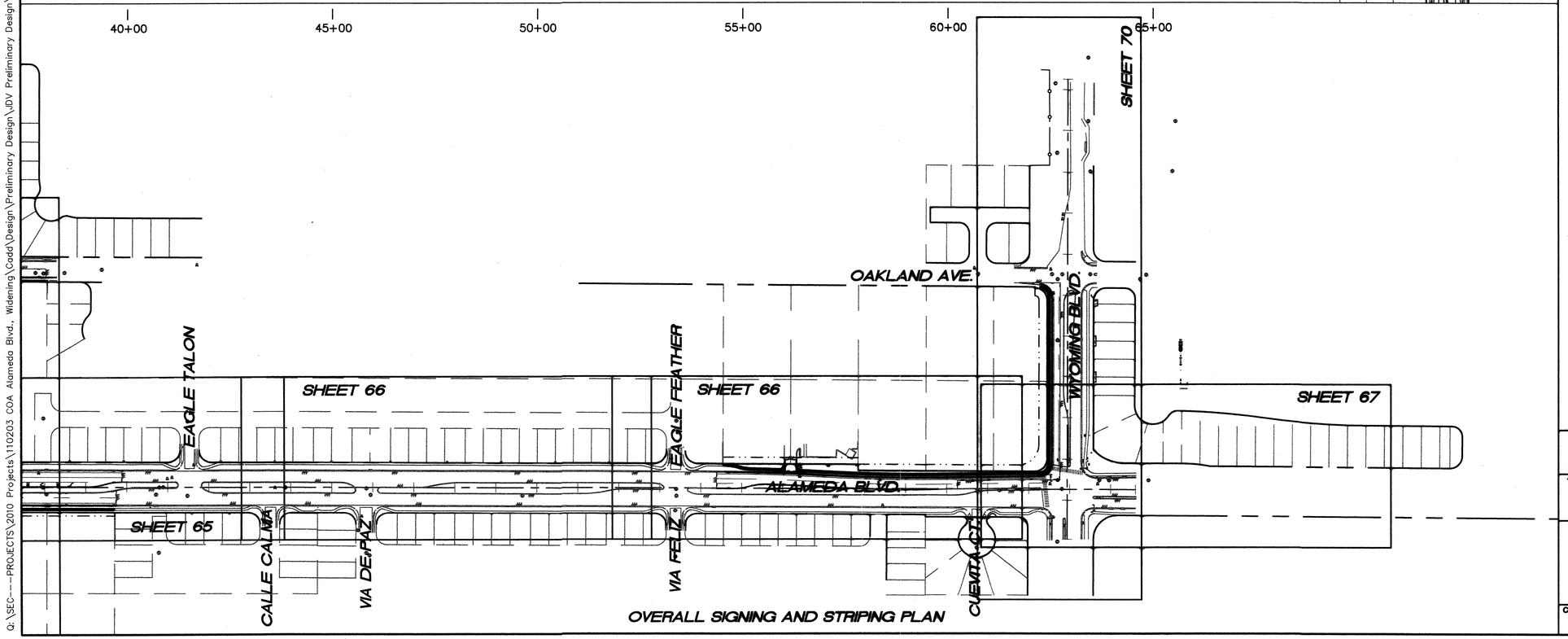
TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA COMMUNICATION SYSTEM - PULL BOX DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
X	X			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-18	61	84





Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\8-1 OVERALL SIGNING & STRIPING.dwg

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

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The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWING CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

ENGINEER'S SEAL

DOUGLAS L. ANDREW — NEW MEXICO — 12171 — REGISTERED PROFESSIONAL ENGINEER

Douglas L. Andrew 5-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

N

150' 75' 0 150' 300'

SCALE: 1" = 150'

SEC JOB # 110203

SMITH ENGINEERING consultants — NEW MEXICO — TEXAS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2376

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

OVERALL SIGNING & STRIPING PLAN

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-1	62	84

GENERAL NOTES

1. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25 INCHES (MAXIMUM) AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.
2. ALL PAVEMENT MARKINGS TO BE REFLECTORIZED PLASTIC.
3. ALL GORE AREA STRIPING SHALL BE AT 30° FROM THE DIRECTION OF TRAVEL.
4. ALL STRIPING SHALL BE APPLIED AS DIRECTED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. TRAFFIC SIGNAL TO BE INSTALLED AT SAN PEDRO DRIVE AND ALAMEDA BOULEVARD.
6. PAINTING OF CURBS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

KEYED NOTES

(1) 4" DASHED WHITE STRIPE. SEE SHEET 71 FOR DETAILS.

(3) 4" SOLID WHITE STRIPE.

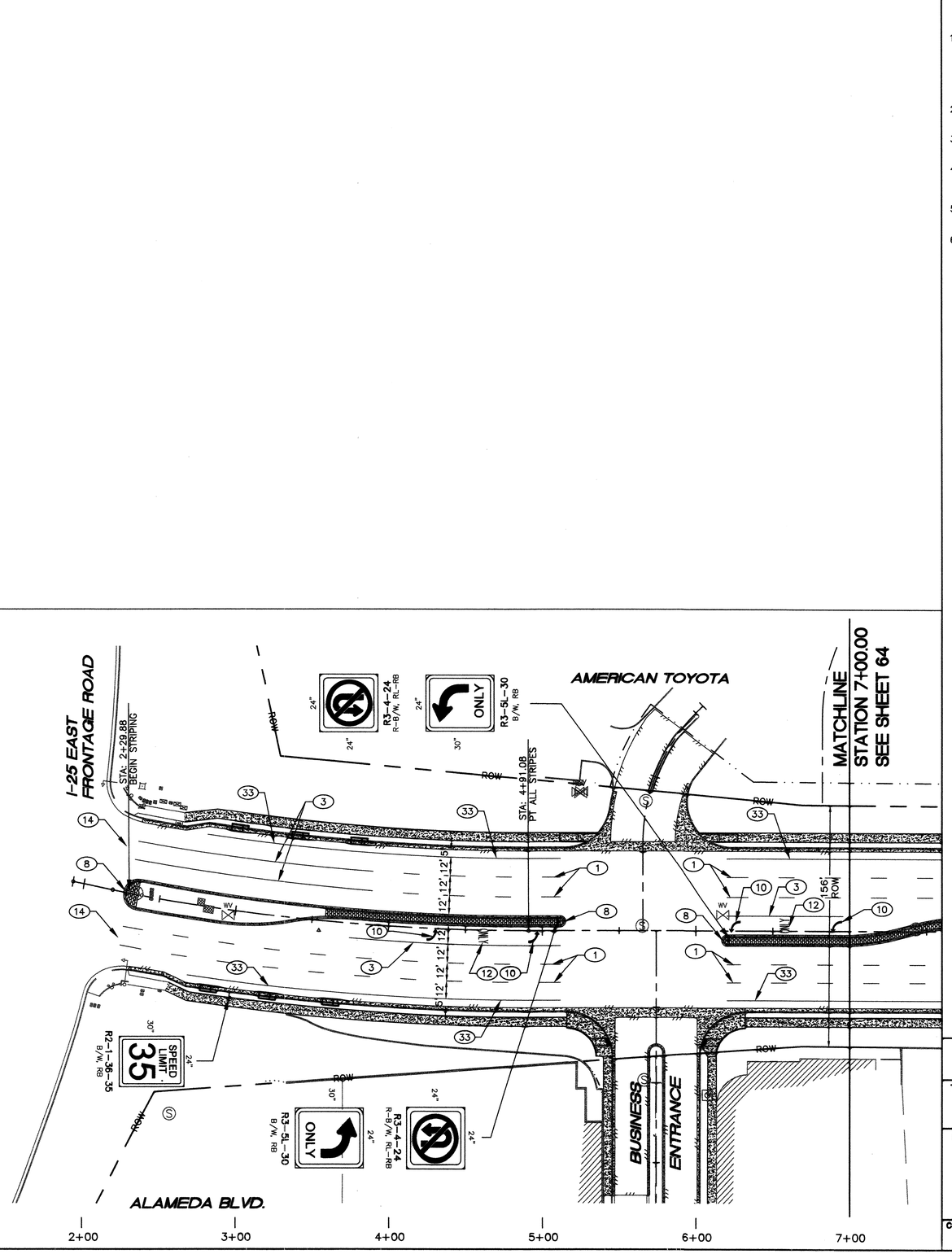
(8) PAINT MEDIAN CURB NOSE YELLOW.

(10) INSTALL "LEFT TURN" ARROW. SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71.

(12) INSTALL "ONLY". SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71.

(14) CONTRACTOR SHALL REPLACE ANY CROSSWALK OR STOP BAR STRIPING THAT IS REMOVED AS PART OF THE ASPHALT REMOVAL IN THIS AREA.

(33) 6" SOLID WHITE STRIPE.



SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2391 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0399
Fax: (505) 884-2376
TEXAS NEW MEXICO

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY ENGINEERING CO.	SMITH	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL — DOUGLAS ANDREW CARTER — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER — 12571 — 01-08-13

NO.	DATE	REMARKS
		REVISIONS
		DESIGN
DESIGNED BY	DLA	DATE 12-2012
DRAWN BY	SEC	DATE 12-2012
CHECKED BY	DLA	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA SIGNING & STRIPING - BOP STA 2+29.88 TO STA 7+00

Design Review Committee: APPROVE JAN 11 2013 DESIGN REVIEW COMMITTEE

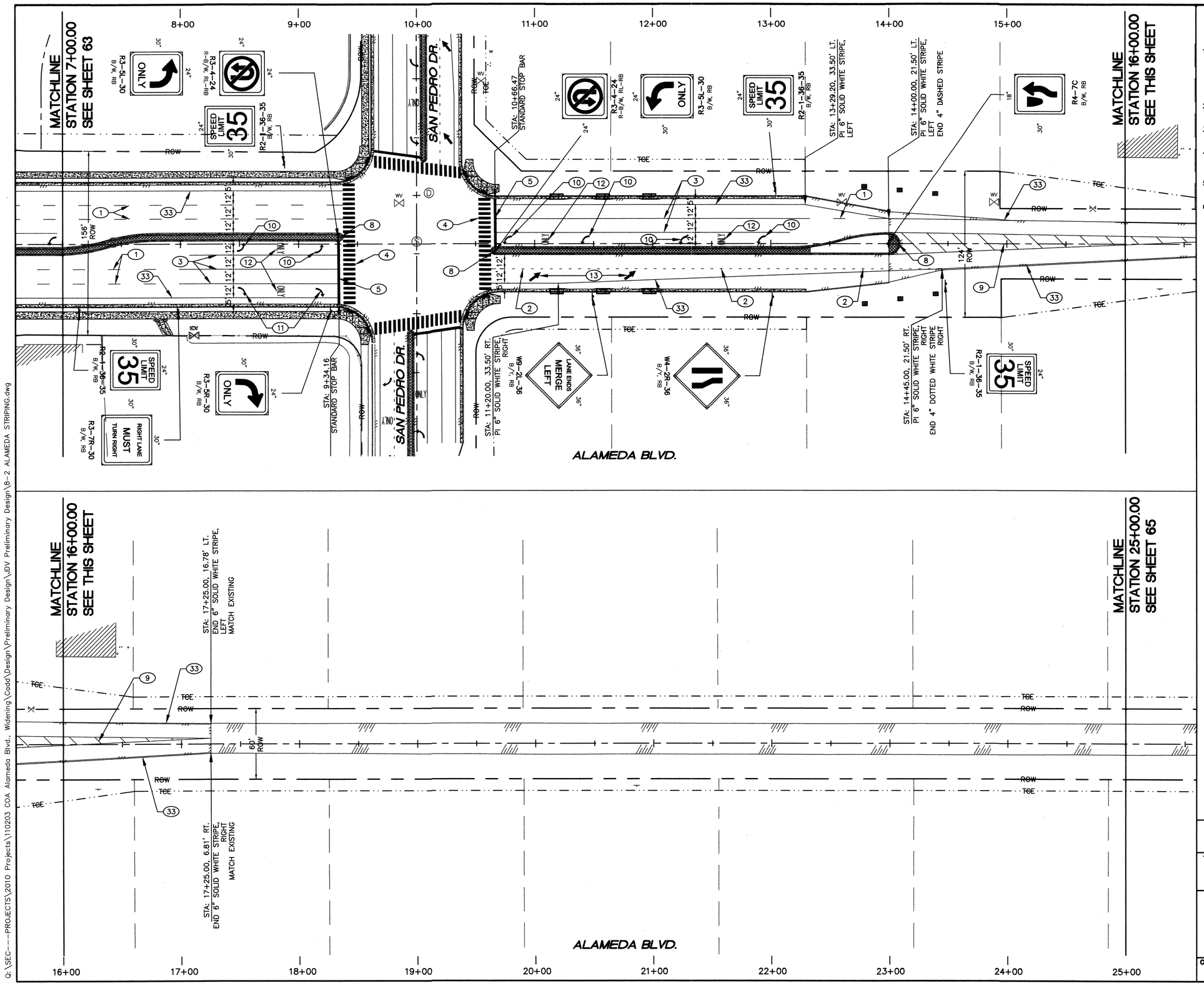
City Engineer Approval: APPROVE JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-2	63	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\8-1a ALAMEDA STRIPING.dwg



GENERAL NOTES

1. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25 INCHES (MAXIMUM) AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.
2. ALL PAVEMENT MARKINGS TO BE REFLECTORIZED PLASTIC.
3. ALL GORE AREA STRIPING SHALL BE AT 30° FROM THE DIRECTION OF TRAVEL.
4. ALL STRIPING SHALL BE APPLIED AS DIRECTED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. TRAFFIC SIGNAL TO BE INSTALLED AT SAN PEDRO DRIVE AND ALAMEDA BOULEVARD.
6. PAINTING OF CURBS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

KEYED NOTES

(1) 4" DASHED WHITE STRIPE. SEE SHEET 71 FOR DETAILS.
(2) 4" DOTTED WHITE STRIPE. SEE SHEET 71 FOR DETAILS.
(3) 4" SOLID WHITE STRIPE.
(4) 24" SOLID WHITE STRIPE. SEE SHEET 71 FOR DETAILS.
(5) 24" SOLID WHITE STRIPE.
(8) PAINT MEDIAN CURB NOSE YELLOW.
(9) 8" MEDIAN GORE. SEE SHEET 71 FOR DETAILS.
(10) INSTALL "LEFT TURN" ARROW. SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71.
(11) INSTALL "RIGHT TURN" ARROW. SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71.
(12) INSTALL "ONLY". SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71.
(13) INSTALL "THRU" ARROW.
(33) 6" SOLID WHITE STRIPE.

40' 20' 0 40' 80'
SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS NEW MEXICO TEXAS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2391 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-3570

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334981 around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S COMPLIANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWING BY SMITH ENGINEERING CO. CORRECTED BY ENGINEERING CO.		DATE 7-14
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

ENGINEER'S SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
Douglas L. Andrews
01-23-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE	12-2012
DRAWN BY	SEC	DATE	12-2012
CHECKED BY	DLA	DATE	12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA SIGNING & STRIPING - STA 7+00 TO STA 25+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-3	64	84

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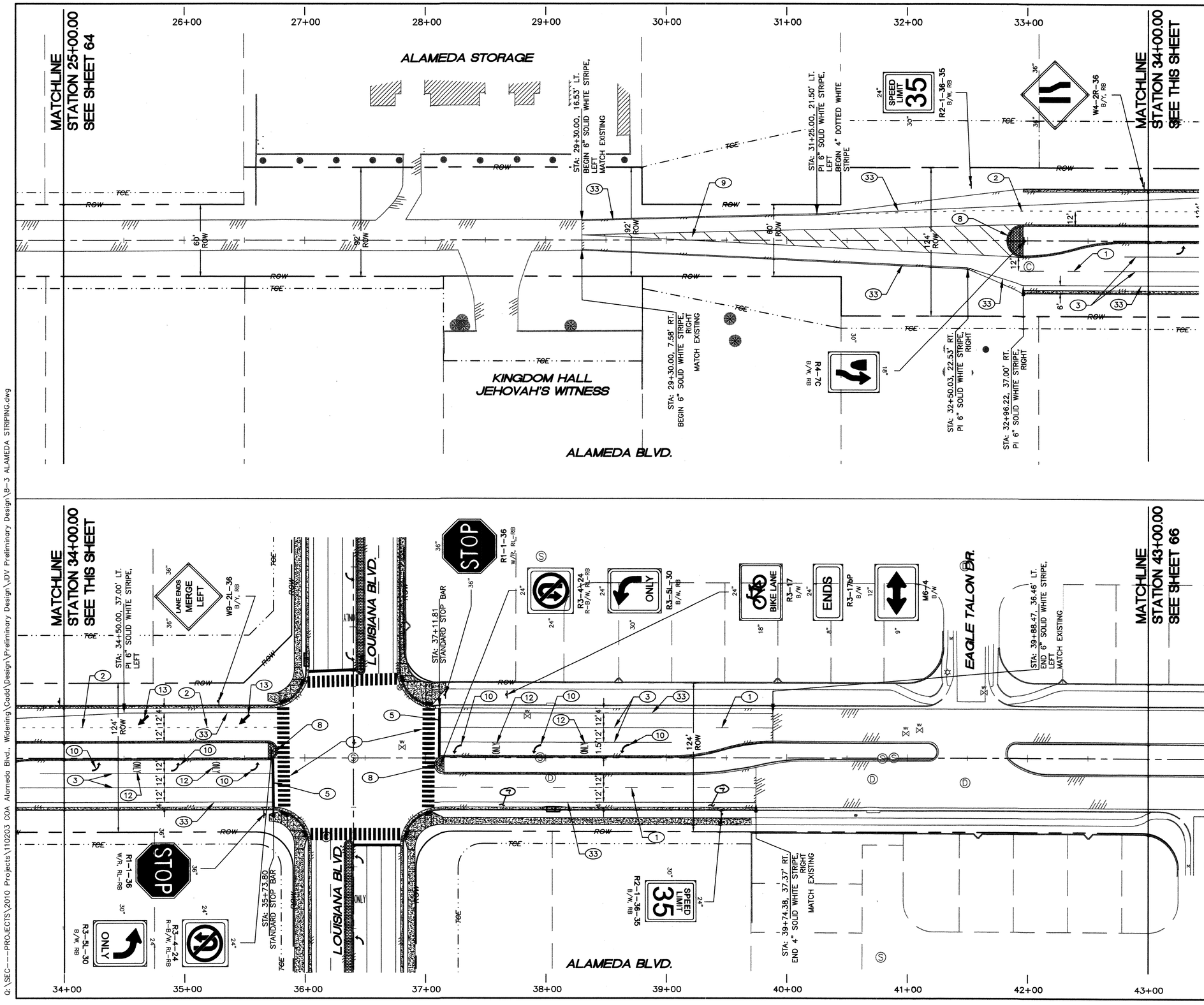

GENERAL NOTES

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2. ALL PAVEMENT MARKINGS TO BE REFLECTORIZED PLASTIC.
3. ALL GORE AREA STRIPING SHALL BE AT 30° FROM THE DIRECTION OF TRAVEL.
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KEYED NOTES

(1) 4" DASHED WHITE STRIPE. SEE SHEET 71 FOR DETAILS.
(2) 4" DOTTED WHITE STRIPE. SEE SHEET 71 FOR DETAILS.
(3) 4" SOLID WHITE STRIPE.
(4) 24" SOLID WHITE STRIPE. SEE SHEET 71 FOR DETAILS.
(5) 24" SOLID WHITE STRIPE.
(8) PAINT MEDIAN CURB NOSE YELLOW.
(9) 8" MEDIAN GORE. SEE SHEET 71 FOR DETAILS.
(10) INSTALL "LEFT TURN" ARROW. SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71.
(12) INSTALL "ONLY". SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71.
(13) INSTALL "THRU" ARROW.
(33) 6" SOLID WHITE STRIPE.
(7) BIKE LANE MARKINGS.

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376
NEW MEXICO TEXAS

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWING SUBMITTED/ CORRECTED BY	ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

The coordinates and elevations are US Survey Feet.

ENGINEER'S SEAL
DOUGLAS L. ANDREW
NEW MEXICO 10771 REGISTERED PROFESSIONAL ENGINEER
01-28-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA SIGNING & STRIPING - STA 25+00 TO STA 43+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update: No. / Day / Yr. | No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-4	65	84

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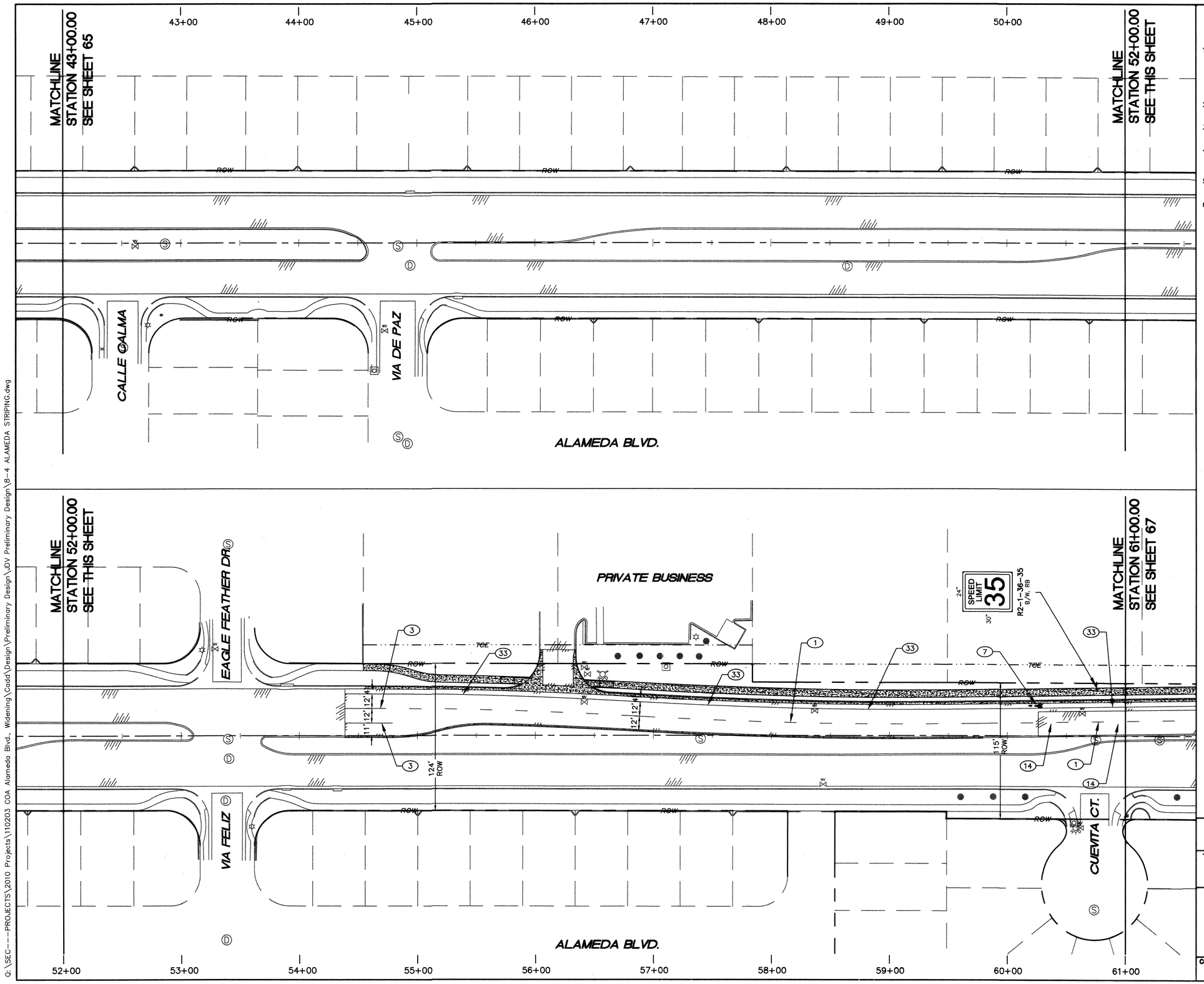

GENERAL NOTES

1. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25 INCHES (MAXIMUM) AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.
2. ALL PAVEMENT MARKINGS TO BE REFLECTORIZED PLASTIC.
3. ALL GORE AREA STRIPING SHALL BE AT 30° FROM THE DIRECTION OF TRAVEL.
4. ALL STRIPING SHALL BE APPLIED AS DIRECTED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. TRAFFIC SIGNAL TO BE INSTALLED AT SAN PEDRO DRIVE AND ALAMEDA BOULEVARD.
6. PAINTING OF CURBS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

KEYED NOTES

(1) 4" DASHED WHITE STRIPE. SEE SHEET 71 FOR DETAILS.

(3) 4" SOLID WHITE STRIPE.

(7) BIKE LANE MARKINGS. SEE SHEET 71 FOR DETAILS.

(14) ERADICATE EXISTING STRIPING IN AREA WHERE EXISTING PAVEMENT IS TO REMAIN IN PLACE.

(33) 6" SOLID WHITE STRIPE.

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2391 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2976
NEW MEXICO TEXAS

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

FIELD VERIFICATION BY COA DATE 7-14

DRAWINGS BY SMITH ENGINEERING CO. CORRECTED BY DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

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The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEER'S SEAL
DOUGLAS L. SMITH NEW MEXICO 10171 REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA SIGNING & STRIPING - STA 43+00 TO STA 61+00

Design Review Committee: APPROVE JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVE JAN 11 2013 CITY ENGINEER

Last Design Update: No. / Day / Yr.

City Project No. 7663.91

Zone Map No. C-18/C-19

Drawing No. 8-5

Sheet 66 Of 84

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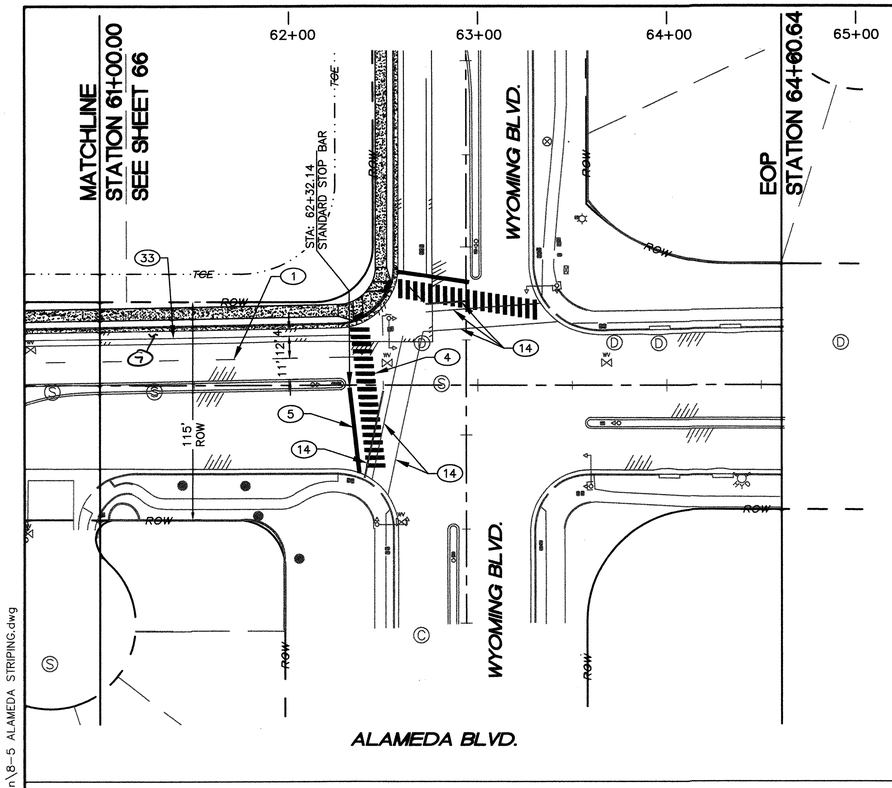

GENERAL NOTES

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KEYED NOTES

(1) 4" DASHED WHITE STRIPE. SEE SHEET 71 FOR DETAILS.

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(14) ERADICATE EXISTING STRIPING TO ACCOMMODATE NEW STRIPING.

(33) 6" SOLID WHITE STRIPE.

(7) BIKE LANE MARKINGS.

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING CONSULTANT NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2391 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-0076 REMAX

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
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AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

ENGINEER'S SEAL

DOUGLAS L. ANDERSON NEW MEXICO 10171 REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA SIGNING & STRIPING - STA 61+00 TO STA 64+60.64 EOP

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-6	67	84

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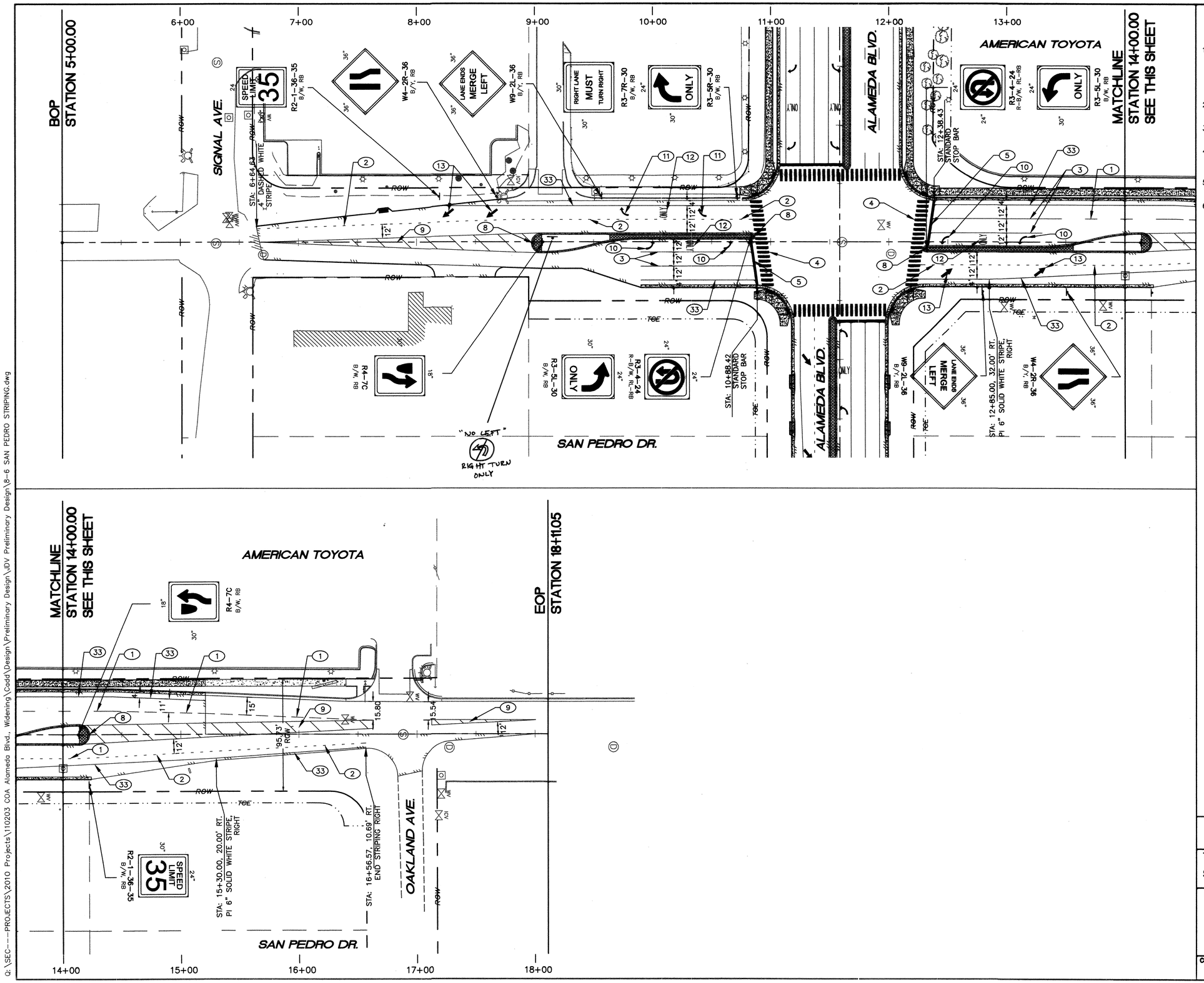

GENERAL NOTES

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(3) 4" SOLID WHITE STRIPE.
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(5) 24" SOLID WHITE STRIPE.
(6) 4" SOLID YELLOW STRIPE.
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(9) 8" MEDIAN GORE. SEE SHEET 71 FOR DETAILS.
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(33) 6" SOLID WHITE STRIPE.

40' 20' 0 40' 80'
SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-3376
NEW MEXICO TEXAS

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
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AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA DATE 7-14
FIELD VERIFICATION BY	COA DATE 7-14
AS-BUILT CORRECTED BY ENGINEERING CO.	DATE 7-14
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

ENGINEERS SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		AS BUILT	
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

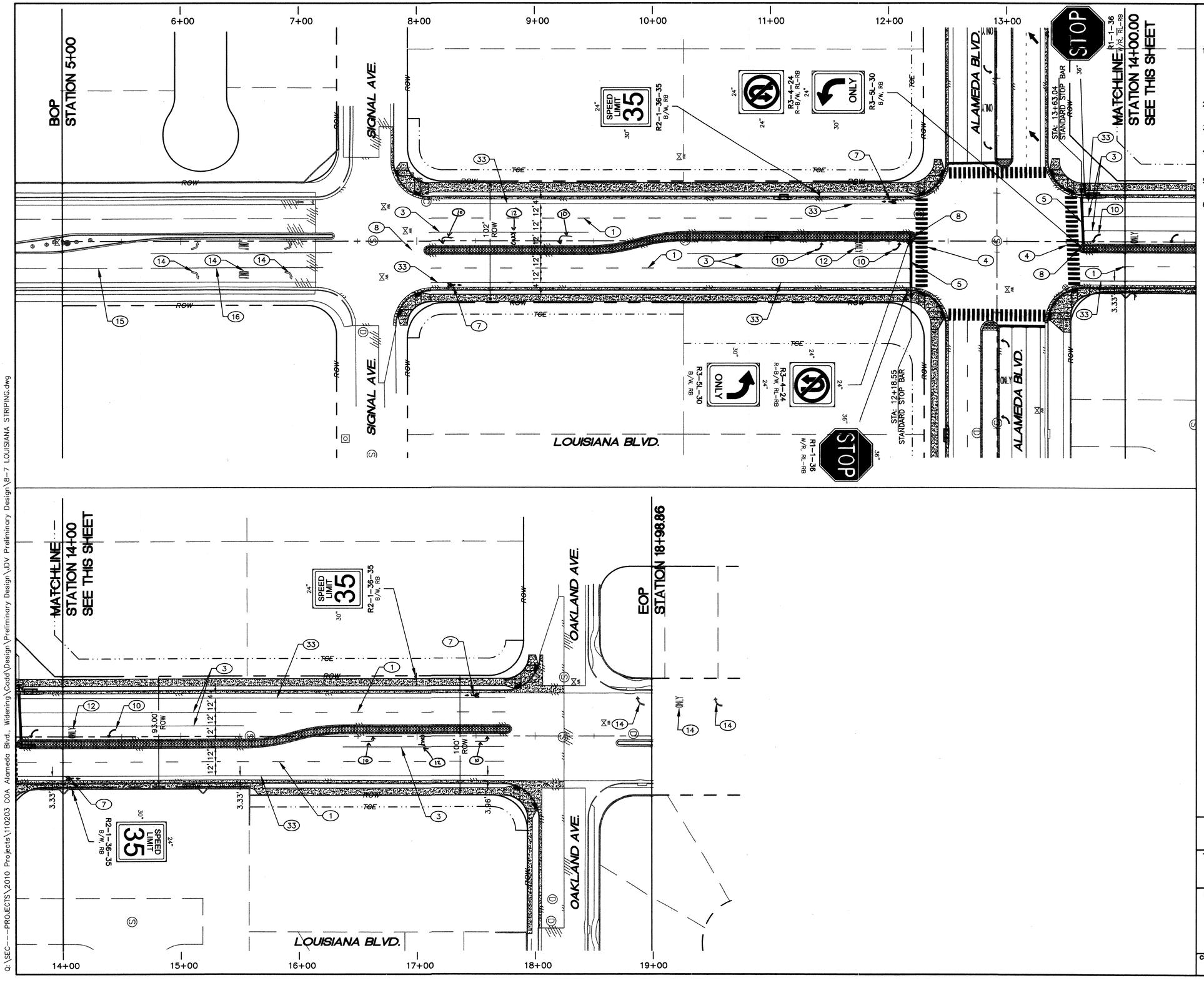
TITLE: ALAMEDA BLVD. WIDENING

SAN PEDRO SIGNING & STRIPING BOP STA 5+00 TO STA 18+11.05 EOP

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-7	68	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\8-6 SAN PEDRO STRIPING.dwg



GENERAL NOTES

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6. PAINTING OF CURBS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

KEYED NOTES

(1) 4" DASHED WHITE STRIPE. SEE SHEET 71 FOR DETAILS.

(3) 4" SOLID WHITE STRIPE.

(4) 24" SOLID WHITE STRIPE. SEE SHEET 71 FOR DETAILS.

(5) 24" SOLID WHITE STRIPE.

(7) BIKE LANE MARKINGS. SEE SHEET 71 FOR DETAILS.

(8) PAINT MEDIAN CURB NOSE YELLOW.

(10) INSTALL "LEFT TURN" ARROW. SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71.

(12) INSTALL "ONLY". SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71.

(14) ERADICATE EXISTING RIGHT TURN ONLY PAVEMENT MARKINGS.

(15) ERADICATE EXISTING WHITE DOTTED STRIPE BETWEEN WILSHIRE AND SIGNAL AVE AND REPLACE WITH 4" DASHED WHITE STRIPE PER DETAIL ON SHEET 71.

(16) ERADICATE 4" SOLID WHITE STRIPE AND REPLACE WITH 4" DASHED WHITE STRIPE PER DETAIL ON SHEET 71.

(33) 6" SOLID WHITE STRIPE.

40' 20' 0 40' 80'
SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2375
NEW MEXICO TEXAS

AS BUILT INFORMATION

BENCH MARKS
Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWING CORRECTED BY ENGINEERING CO. SMITH DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEER'S SEAL
DOUGLAS L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

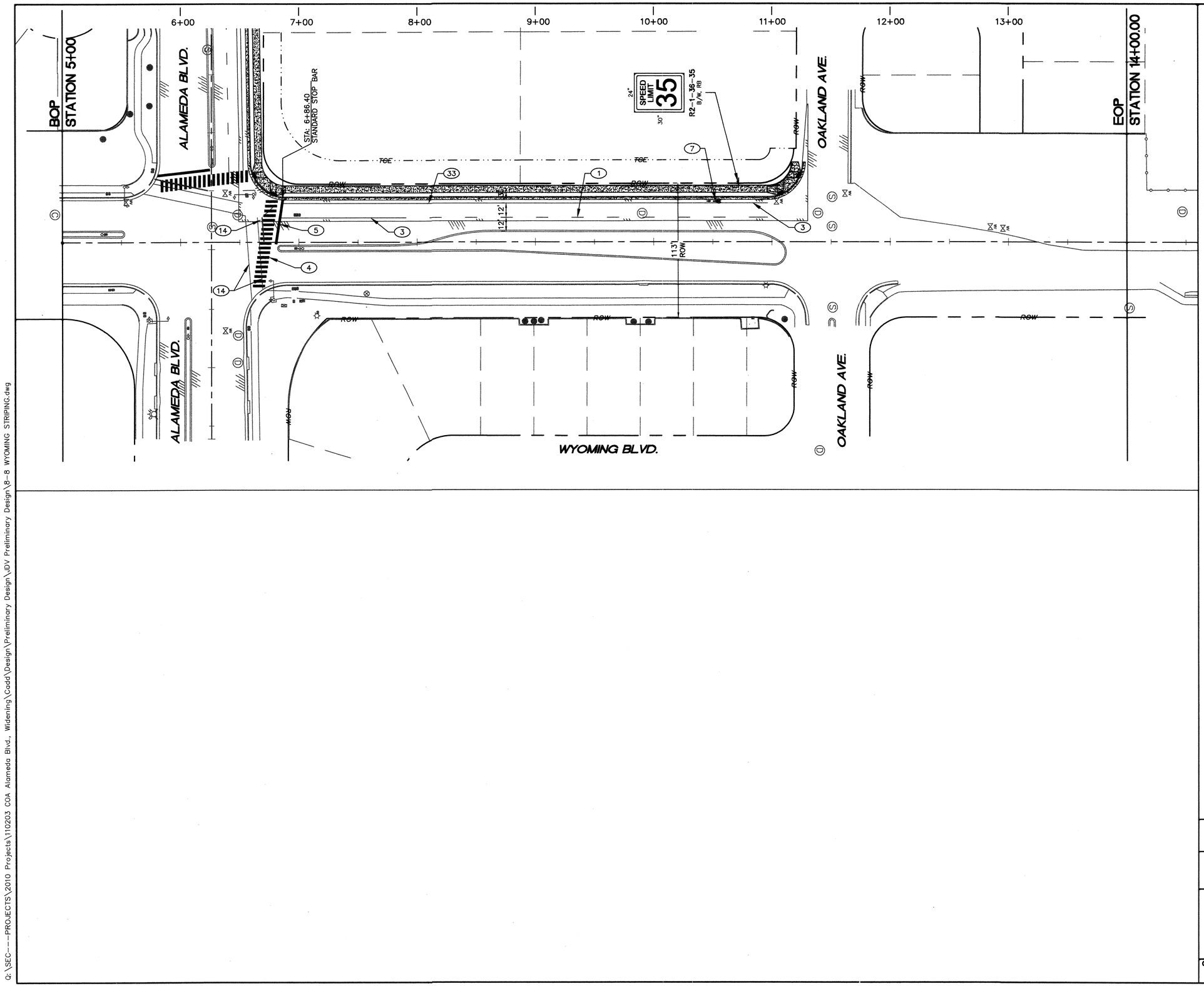
TITLE: ALAMEDA BLVD. WIDENING

LOUISIANA SIGNING & STRIPING BOP STA 5+00 TO STA 18+98.86

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update: No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-8	69	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\8-7 LOUISIANA STRIPING.dwg



GENERAL NOTES

1. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25 INCHES (MAXIMUM) AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.
2. ALL PAVEMENT MARKINGS TO BE REFLECTORIZED PLASTIC.
3. ALL GORE AREA STRIPING SHALL BE AT 30° FROM THE DIRECTION OF TRAVEL.
4. ALL STRIPING SHALL BE APPLIED AS DIRECTED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. TRAFFIC SIGNAL TO BE INSTALLED AT SAN PEDRO DRIVE AND ALAMEDA BOULEVARD.
6. PAINTING OF CURBS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

KEYED NOTES

(1) 4" DASHED WHITE STRIPE. SEE SHEET 71 FOR DETAILS.

(3) 4" SOLID WHITE STRIPE.

(4) 24" SOLID WHITE STRIPE. SEE SHEET 71 FOR DETAILS.

(5) 24" SOLID WHITE STRIPE.

(7) BIKE LANE MARKINGS. SEE SHEET 71 FOR DETAILS.

(14) ERADICATE EXISTING STRIPING TO ACCOMODATE NEW STRIPING.

(33) 6" SOLID WHITE STRIPE.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

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AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

FIELD VERIFICATION BY COA DATE 7-14

MARKINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEERS STAMP

DOUGLAS A. ANDREW — NEW MEXICO — 10171 — REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	DESIGNED BY	DRAWN BY	CHECKED BY
		REVISIONS	DLA	SEC	DLA
		DESIGN	DATE 12-2012	DATE 12-2012	DATE 12-2012

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
NEW MEXICO — TEXAS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

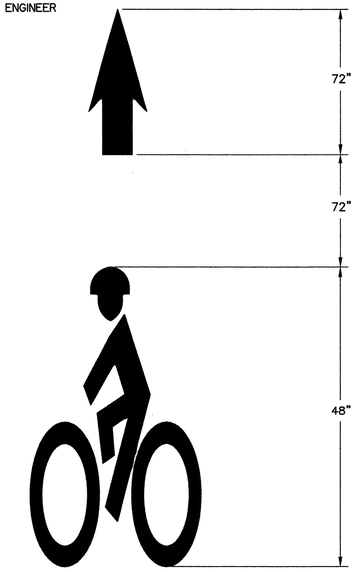
WYOMING SIGNING & STRIPING BOP STA 5+00 TO STA 14+00 EOP

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

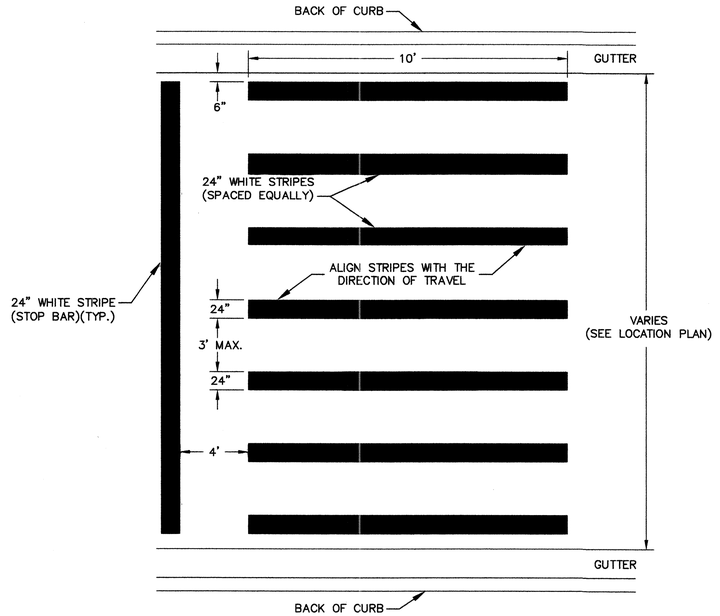
City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-9	70	84

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\DV Preliminary Design\8-8 WYOMING STRIPING.dwg

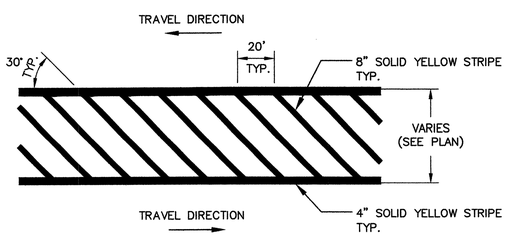
NOTE: ARROW AND BICYCLE SYMBOL DIMENSIONS SHALL MEET MUTCD REQUIREMENTS, AND SHALL REQUIRE APPROVAL BY THE PROJECT ENGINEER PRIOR TO INSTALLATION.



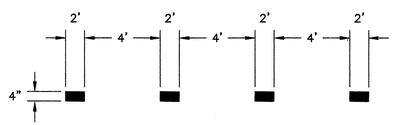
BICYCLE LANE PAVEMENT MARKING
NOT TO SCALE



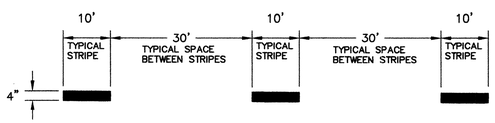
TYPICAL CROSS WALK DETAIL
NOT TO SCALE



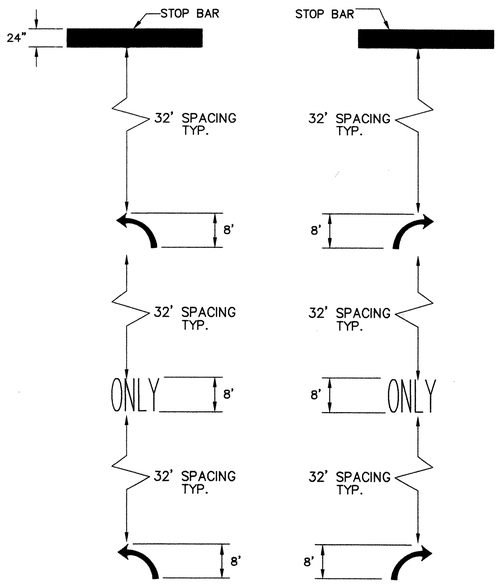
TYPICAL MEDIAN GORE MARKINGS
NOT TO SCALE



TYPICAL DOTTED STRIPE DETAIL
NOT TO SCALE



TYPICAL DASHED STRIPE DETAIL
NOT TO SCALE



TYPICAL LEFT-TURN LANE MARKINGS
NOT TO SCALE

TYPICAL RIGHT-TURN LANE MARKINGS
NOT TO SCALE

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\8-9 SIGNING DETAILS.dwg

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project overage combined factor of CF = 1.00033496† around an origin of 0,0.

N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid

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The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

FIELD VERIFICATION BY COA DATE 7-14

DRAWING(S) CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEERS SEAL
DOUGLAS J. VARNEY
NEW MEXICO
12571
REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE 12-2012	
DRAWN BY	SEC	DATE 12-2012	
CHECKED BY	DLA	DATE 12-2012	

SEC JOB # 110203

SMITH ENGINEERING COMPANY
NEW MEXICO TEXAS
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3301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

SIGNING & STRIPING - DETAILS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update: No. / Day / Yr. / No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-10	71	84

RECORD DRAWINGS

GENERAL NOTES:

1 SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF SPECIFICATIONS.

2 THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE CITY SURVEYOR IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY BY THE CITY SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF SPECIFICATIONS.

3 THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1994 EDITION, UPDATE NO. 7, AMEND NO. 1.

4 ALL NEW MANHOLES SHALL BE TYPE "E" (COA DWG. 2102) UNLESS OTHERWISE NOTED ON THE PLANS.

5 THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.

6 ALL EXISTING WATER VALVE BOXES AND MANHOLES LOCATED WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.

7 SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.

8 THE ALBUQUERQUE WATER AUTHORITY (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF SPECIFICATIONS.

9 ALL EXCAVATION TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

10 ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.

11 THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 18 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.

12 WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.

13 ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY.

14 WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE FIELD ENGINEER.

15 THE CONTRACTOR WILL NOTIFY NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.

16 CONTRACTOR WILL MAKE ALL WATER VALVES AND MANHOLES ACCESSIBLE TO THE CITY AT ALL TIMES.

17 CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 8 FEET IN WIDTH OR WIDER.

18 ALL SUBGRADE AND SUBBASE MATERIAL ENCOUNTERED IN PAVEMENT REMOVAL AND REPLACEMENT THAT IS DETERMINED BY THE FIELD ENGINEER TO MEET THE SPECIFICATIONS, CAN BE REUSED. HOWEVER, THE MATERIAL WILL BE PROCESSED AND COMPACTED TO MEET MOISTURE CONTENT AND PERCENT COMPACTION REQUIRED BY THE SPECIFICATIONS.

19 CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC.

20 CONTRACTOR WILL CONFINE HIS WORK WITHIN THE EASEMENT LIMITS AND/OR RIGHT-OF-WAY OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.

21 ALL WATER VALVE AND MANHOLE ADJUSTMENTS SHALL INCLUDE PLACEMENT OF EMD'S.

22 ALL NEW VALVES AND MANHOLES SHALL INCLUDE PLACEMENT OF EMD'S.

23 ALL WATERLINE BENDS SHALL INCLUDE PLACEMENTS OF EMD'S OVER MAIN AND CROSSINGS.

24 ALL WATER VALVES AND FIRE HYDRANTS REMOVED TO BE SALVAGED AND RETURNED TO THE A.B.C.W.U.A.

25 MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 18 INCHES. BEDDING MATERIAL SHALL BE CLASS II, III, OR IV UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.

26 MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 12 INCHES. BEDDING MATERIAL SHALL BE CLASS I, II, OR III. UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.

27 THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.

28 ALL STRUCTURAL CONCRETE TO BE 4000 PSI UNLESS OTHERWISE NOTED ON PLANS.

~~29 ALL REINFORCING STEEL TO BE GRADE 60.~~

30 ALL EXPOSED EDGES ON CAST-IN-PLACE CONCRETE STRUCTURES WILL HAVE A 1" CHAMFER UNLESS OTHERWISE NOTED.

31 ALL SPLICES IN REINFORCING STEEL TO BE 2-FOOT 6-INCH MINIMUM UNLESS OTHERWISE NOTED.

32 PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

33 THE REPLACEMENT OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE FINAL PAVEMENT WORK STARTS IN EACH AREA. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MAINTENANCE OF THE TEMPORARY PAVING AND STRIPING WILL BE AT THE CONTRACTOR'S EXPENSE.

34 TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.

35 ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.

36 PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

37 ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE ENGINEER.

38 THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.

39 EXISTING STANDARD CURB AND GUTTER, NOT DISTURBED BY CONTRACTOR, BUT OUT OF ALIGNMENT, DISPLACED VERTICALLY, BADLY BROKEN AND/OR DETERIORATED, WILL BE REPLACED AS DIRECTED BY THE ENGINEER AND PAID FOR AT CONTRACT UNIT PRICES.

40 ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR AND WILL BE PAID AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND BID PROPOSAL. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR MUST MAKE PROVISIONS TO PROVIDE ACCESS TO PROPERTIES. REFER TO SECTION 19 OF THE SPECIFICATIONS.

41 ALL UTILITY LINES AND STORM DRAIN LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES AND STORM DRAINS WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.

42 WATER SERVICE LINE RELOCATIONS WILL REQUIRE A NEW COPPER SERVICE BETWEEN THE MAIN LINE AND THE METER. SPLICES WILL NOT BE ALLOWED.

43 FIRE HYDRANTS TO BE RELOCATED SHALL BE SALVAGED TO THE WATER AUTHORITY AND REPLACED WITH A NEW UNIT AS ALLOWED BY THE AUTHORITY'S APPROVED PRODUCTS LIST.

44 THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING COA INFRASTRUCTURE (C & G, PAVING, ETC.) DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.

45 ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

46 STATIONS OF STORM DRAIN INLETS ARE TO THE CENTER OF GRATE. ALL STORM DRAIN INLETS WILL BE TYPE "A" UNLESS OTHERWISE NOTED ON THE PLANS.

47 SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.

48 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.

49 ALL STORM DRAIN AND CONNECTOR PIPE WILL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.

50 THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.

51 CONTRACTOR WILL SURVEY AND LOG EXISTING ELEVATIONS OF CURB-AND-GUTTER, SIDEWALK, AND PAVEMENT WHICH WILL BE REMOVED FOR CONSTRUCTION OF IMPROVEMENTS. CONTRACTOR WILL REPLACE REMOVED CURB-AND-GUTTER, SIDEWALK, DRIVE PADS, AND PAVEMENT TO ELEVATIONS PRIOR TO REMOVAL UNLESS OTHERWISE INDICATED ON THE PLANS.

52 CONTRACTOR WILL CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS DIRECTED BY THE ENGINEER TO PROVIDE ACCESS TO LOCAL BUSINESS, ETC. TEMPORARY PAVEMENT SHALL BE REMOVED AND DISPOSED OF PRIOR TO PLACEMENT OF FULL WIDTH PAVEMENT SECTION. TEMPORARY PAVING SHALL BE PER COA STD. DWG. 2415 AND PAID FOR PER COA STD. SPECIFICATIONS.

53 CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

54 ALL STRIPING ON C.O.A STREETS REMOVED OR DAMAGE MUST BE REPLACED WITH PLASTIC. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25 INCHES AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.

55 RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.

56 ALL DISTURBED GROUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 1012, NATIVE GRASS SEEDING, AS CURRENTLY UPDATED.

57 IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE MEASURES TO PREVENT ABRUPT PAVEMENT CHANGES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

58 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE C.O.A.

59 HEALTH AND SAFETY NOTE: THIS PROJECT IS BEING PERFORMED ON AND/OR NEAR A FORMER LANDFILL. THE CONTRACTOR IS RESPONSIBLE FOR THE HEALTH AND SAFETY OF HIS/HER WORKERS. THE WORK DETAILED IN THE PROJECT MAY REQUIRE THAT A HEALTH AND SAFETY PLAN BE PREPARED ACCORDING TO OSHA 1910.120. COSTS ASSOCIATED WITH THE HEALTH AND SAFETY PLAN SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

60 ALL Q'S, V'S AND HGL'S SHOWN ON THE PLAN AND PROFILE SHEETS ARE FOR THE 100-YEAR EVENT.

LEGEND:

- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING WATER METER
- EXISTING SAS MANHOLE
- EXISTING STORM MANHOLE
- EXISTING COMMUNICATION PEDESTAL
- EXISTING ELECTRIC BOX
- EXISTING GAS METER
- EXISTING PULLBOX
- EXISTING CATV PEDESTAL
- EXISTING STREET LIGHT
- EXISTING POWER POLE
- EXISTING MAILBOX
- EXISTING SIGN
- EXISTING FENCE LINE
- EXISTING WALL
- EXISTING STORM DRAIN
- EXISTING CONTROL POINTS
- POT HOLE
- PROPOSED CENTERLINE
- PROPOSED 4" PERFORATED PIPE
- PROPOSED FENCE
- PROPOSED STORM DRAIN
- PROPOSED MANHOLE
- PROPOSED STORM INLET
- PROPOSED ASPHALT CURB
- PROPOSED CURB & GUTTER
- PROPOSED ARTERIAL PAVEMENT
- PROPOSED TEMPORARY PAVEMENT
- EXISTING STORM DRAIN TO BE REMOVED

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE

BENCH MARKS

STATION STAMPED (10-C18 1985)
CITY OF ALBUQUERQUE SURVEY 3 1/4" ALUMINUM DISK RIVETED TO PIPE LOCATED BETWEEN ALAMEDA PL. & EAGLE ROCK RD ON SAN PEDRO BLVD. EAST SIDE OF ROAD
X=1,524,123.885 Y=1,542,565.263
G-C=0.999865042
Δ X=0° 11' 19.43"
ELEVATION=5222.09 (NAVD 1988)

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS REVISED BY	SMITH ENGINEERING	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY
DATE
NO.

ENGINEERS' SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY D.E.M. DATE 3-10
DRAWN BY D.E.M. DATE 3-10
CHECKED BY D.B.T. DATE 3-10

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com
P.O. BOX 65760 ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199 FAX: (505) 830-9248

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: SAN PEDRO STORM DRAIN
GENERAL NOTES & LEGEND

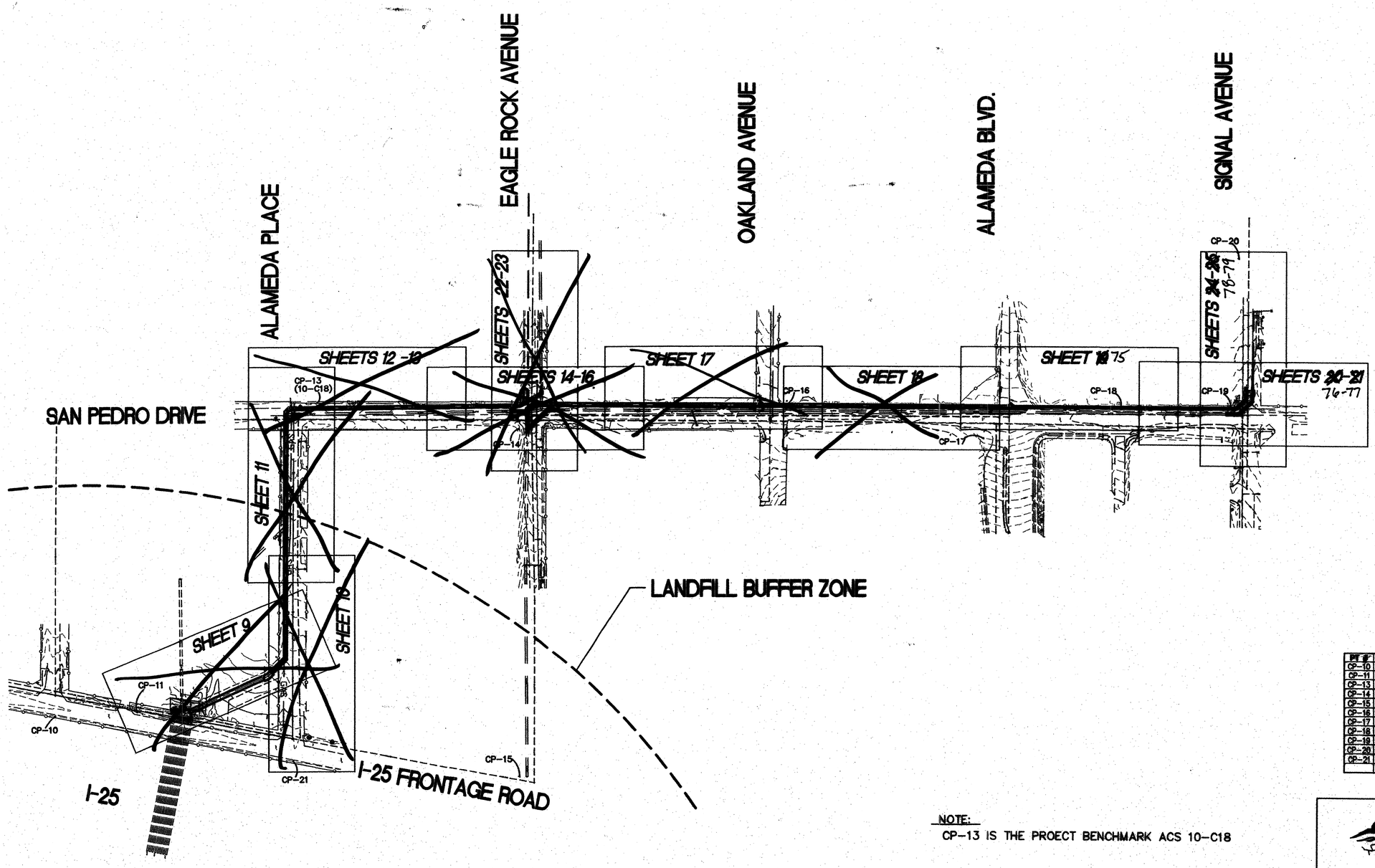
Design Review Committee: APPROVED MAR 11 2010
City Engineer Approval: APPROVED MAR 11 2010 CITY ENGINEER

Last Design Update

No. / Bay / Yr.	No. / Bay / Yr.

City Project No. 7663.91 | Zone Map No. C-18-Z | Sheet 72 Of 84

Q:\projects\COA San Pedro Storm Drain\PLANSET-100%\02-GENERAL_NOTES.dwg 7/21/2009 2:18:05 PM MST



CONTROL INFORMATION

PT. #	NORTHING	EASTING	ELEVATION
CP-10	1525216.071	1542385.625	5203.17
CP-11	1525033.223	1542393.850	5203.06
CP-13	1524634.407	1543081.962	5222.09
CP-14	1524186.900	1543021.817	5223.61
CP-15	1524183.718	1542247.004	5202.36
CP-16	1523594.672	1543074.359	5229.41
CP-17	1523151.243	1543000.366	5227.97
CP-18	1522845.968	1543073.550	5230.33
CP-19	1522602.284	1543075.659	5231.62
CP-20	1522585.136	1543408.690	5240.43
CP-21	1524686.348	1542282.951	5202.25

NOTE:
CP-13 IS THE PROECT BENCHMARK ACS 10-C18

GRAPHIC SCALE
(IN FEET)
1 inch = 120 ft.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
STATION STAMPED (10-C18 1985)
CITY OF ALBUQUERQUE SURVEY 3 1/4"
ALUMINUM DISK RIVETED TO PIPE LOCATED
BETWEEN ALAMEDA PL. & EAGLE ROCK RD
ON SAN PEDRO BLVD. EAST SIDE OF ROAD
X=1,524,123.885 Y=1,542,565.263
G-C=0.999665042
ΔX=0° 11' 19.43"
ELEVATION=5222.09 (NAVD 1988)

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S FIELD CHANGE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
AS-BUILTS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY D.E.M. DATE 3-10
DRAWN BY D.E.M. DATE 3-10
CHECKED BY D.B.T. DATE 3-10

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com
P.O. BOX 65760
ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199
FAX: (505) 830-9248

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE:
SAN PEDRO STORM DRAIN OVERALL LAYOUT

Design Review Committee: APPROVE MAR 11 2010 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVE MAR 11 2010 CITY ENGINEER
Last Design Update
No. / Day / Yr.
No. / Day / Yr.

City Project No. 7663.91
Zone Map No. C-18-Z
Sheet 73 Of 84

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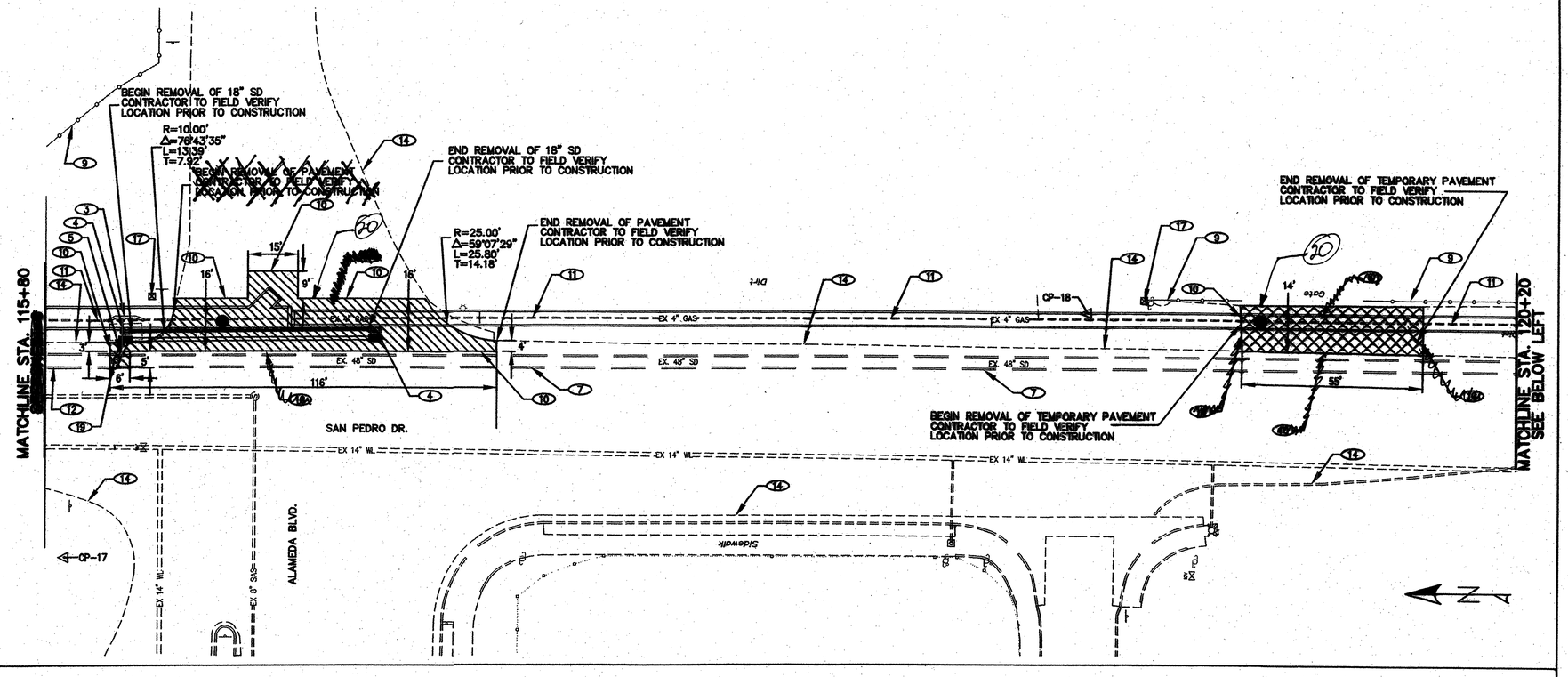
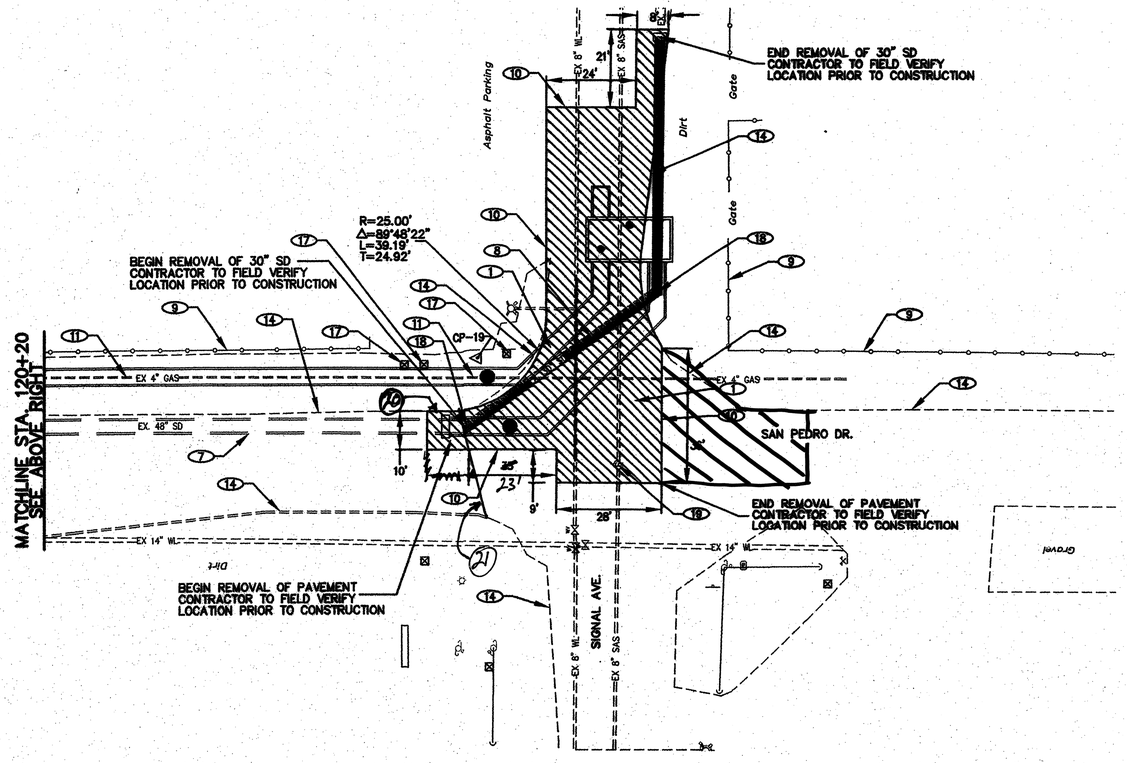
RECORD DRAWINGS





KEYED NOTES:

1. ~~REMOVE AND DISPOSE EXISTING PAVEMENT.~~ REPLACE ARTERIAL PAVEMENT WITH TEMPORARY PER COA STD DWG 2465 SEE SHEET 8 ASPHALT REPLACEMENT SECTION PAVEMENT SECTION SEE SHEET 31, REPLACE TO MATCH EXISTING LINE AND GRADE
2. REMOVE AND REPLACE EXISTING 1" WATER SERVICE
3. REMOVE AND DISPOSE EXISTING ASPHALT CURB. ~~REPLACE ASPHALT CURB PER COA STD DWG 2446B~~ MATCH TO EXISTING GRADE.
4. REMOVE AND DISPOSE EXISTING STORM INLET
5. REMOVE AND DISPOSE EXISTING 18" RCP STORM DRAIN CONNECTOR PIPE
6. NOT USED
7. ~~NOT USED~~ EXISTING 48"SD TO REMAIN
8. EXISTING CHAINLINK FENCE TO BE REMOVED AND REPLACED. COORDINATE W/PROPERTY OWNER PER COA STD DWG 2252.
9. EXISTING FENCE OR WALL TO REMAIN AND BE PROTECTED
10. SAWCUT NEAT LINES IN PAVEMENT BEFORE REMOVAL
11. EXISTING GAS LINE TO BE REMOVED AND RELOCATED (BY OTHERS)
12. EXISTING 54" SD TO REMAIN
13. NOT USED
14. EXISTING EDGE OF PAVEMENT
15. NOT USED
16. NOT USED
17. EXISTING PEDESTAL TO BE REMOVED AND RELOCATED (BY OTHERS)
18. REMOVE AND DISPOSE EXISTING MANHOLE
19. ADJUST MANHOLE LIDS AND COLLARS TO MATCH FINISHED GRADE PER COA STD DWG 2460
20. SEE ALAMEDA BLVD. WIDENING PLAN SET FOR REMOVALS IN THIS AREA
21. LIMITS OF ASPHALT REMOVAL ON ALAMEDA BLVD. WIDENING PROJECT

GENERAL NOTES:

1. CONTRACTOR SHALL REPLACE ANY STRIPING AND SIGNAGE THAT IS REMOVED THROUGHOUT ENTIRE PROJECT.
2. PAY LIMITS FOR PAVEMENT REMOVAL AND REPLACMENT ARE SHOWN AS DIMENSIONED ON THIS SHEET

SCALE: 1" = 5'

SCALE: 1" = 20'

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	DATE 7-14
WORK INSPECTED BY	SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS PREPARED BY	ENGINEERING, CO.	DATE 7-14

BENCH MARKS

STATION STAMPED (10-C16 1985)
CITY OF ALBUQUERQUE SURVEY 3 1/4"
ALUMINUM DISK RIVETED TO PIPE LOCATED BETWEEN ALAMEDA PL. & EAGLE ROCK RD ON SAN PEDRO BLVD. EAST SIDE OF ROAD
X=1,524,123.885 Y=1,542,565.263
G-C=0.999965042
ΔX=0° 11' 19.43"
ELEVATION=5222.09 (NAVD 1988)

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

SURVEY INFORMATION

FIELD NOTES BY DATE NO.

ENGINEERS SEAL

NEW MEXICO 9877 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	D.E.M.	DATE 3-10	
DRAWN BY	D.E.M.	DATE 3-10	
CHECKED BY	D.B.T.	DATE 3-10	

Thompson Engineering Consultants, Inc.
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P.O. BOX 65760 ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199 FAX: (505) 830-9248

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE:
SAN PEDRO STORM DRAIN
REMOVAL AND PAVING SHEET SAN PEDRO DR.

Design Review Committee	City Engineer Approval		No. / Day / Yr.	No. / Day / Yr.
APPROVED MAR 11 2010 DESIGN REVIEW COMMITTEE	APPROVED MAR 11 2010 CITY ENGINEER	Last Design Update		

City Project No. 7663,91 | Zone Map No. C-18-Z | Sheet 74 Of 84

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RECORD DRAWINGS

POT-HOLE INFORMATION

NO.	BURY TO TOP OF PIPE	ELEV. AT TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
PH-7G 1	2'-8"	5227.83±	GAS	METALLIC	4"
PH-7G	NO LOCATION	–	GAS	–	–
PH-8G	1'-2"	5228.45±	GAS	HDP	2"
PH-9G	1'-9 1/2"	5227.94±	GAS	METALLIC	4"
PH-10FO A	4'-1"	5225.61±	COMM	METALLIC	4"
PH-10FO B	3'-11"	5225.78±	COMM	METALLIC	4"
PH-11C	3'-5"	5228.12±	COMM	PVC	4"
PH-12G	2'-8"	5226.78±	GAS	METALLIC	4"
PH-3A/B	3'-5"	5226.52±	WATER METER	–	2 1/2"
PH-3A/B	NO LOCATION	–	–	–	–

KEYED NOTES:

1. ~~REMOVE & DISPOSE AND REPLACE TYPE 'A' STORM INLET AND 18" CONNECTOR PIPE. CONNECT INTO EXISTING 5' DIA. MANHOLE. SEE DETAIL SHEET 28~~
2. EXISTING POWER POLE TO BE REMOVED AND RELOCATED (BY OTHERS)
3. EXISTING GAS LINE TO BE REMOVED & RELOCATED (BY OTHERS)
4. EXISTING PEDESTAL TO BE REMOVED & RELOCATED (BY OTHERS)

MATCHLINE STA. 115+80.00

MATCHLINE STA. 120+00.00 SEE SHEET 29

EXISTING 8" WL RELOCATION SEE DETAIL THIS SHEET

PH-11C, PH-12G, PH-3A/B, CS116, PH-9G, PH-10FO A, PH-10FO B, PH-8G, PH-7G, PH-7G 1, CP-18

INSTALL: 48" RCP

EXISTING EDGE OF PVMT

EX. 4" GAS

EX. 48" SD

CONSTRUCTION LINE

SAN PEDRO DRIVE

N 00° 04' 32" W

EX. 14" WL

STATION EQUATION
STA 10+06.66 ALAMEDA ℄ =
STA 116+83.71 SAN PEDRO ℄

ALAMEDA BOULEVARD

EX. 6" SAS

SAS Manhole
Rim = 5229.87
Inv(N)= 5209.25
Inv(W)= 5209.24

CP-17

EXISTING STD C & G

EXISTING SIDEWALK

EXISTING 54" SD

EXISTING 10" SAS

EXISTING 14" WL

EXISTING 48" SD

EXISTING GROUND ● CONSTRUCTION LINE

HGL

SAN PEDRO DRIVE

53 LF OF 72" RCP CLASS IV S=0.58% Q=297.0 CFS V=10.50 FPS

20 LF OF 72" RCP CLASS IV. S=0.58% Q=297.0 CFS V=10.50 FPS

269 LF OF 48" RCP CLASS IV S=0.48% Q=45.0 CFS V=3.58 FPS

57 LF OF 48" RCP CLASS IV S=0.48% Q=45.0 CFS V=3.58 FPS

STA. 116+32.71 16.06' LT. INSTALL: (1)-4' DIA. T-MANHOLE RIM=5229.08 INV=5220.43 SEE T-MANHOLE DETAIL SHEET 28 80

STA. 116+43.96 20.01' LT. INSTALL: (1)-72"x48" RCP REDUCER INV=5220.30

STA. 116+55.35 16.98' LT. INV=5220.38 REDUCER, BEGIN 72"x48" REDUCER

STA. 116+54.35 16.98' LT. INV=5220.57 END 72"x48" REDUCER

STA. 118+43.12 16.33' LT. INSTALL: (1)-4' DIA. T-MANHOLE RIM=5230.97 INV=5221.61 SEE T-MANHOLE DETAIL SHEET 28

NEW 72" SD, EXISTING 48" SD, EXISTING 8" PVC WL, LEAN FILL PER STD DWG 2381, 2' MIN., EMD, 8" 45° BEND, THRUST BLOCK PER STD DWG 2320, 6" CAP, NEW 8" WATERLINE, 1.5' MIN., 45° BEND, 10' MIN. 2', REMOVE & DISPOSE EXISTING 8" WATER LINE INCLUDING BENDS, RESTRAINED JOINTS & CONCRETE BLOCKING, START 8" DUCTILE IRON PIPE, 8" DUCTILE IRON PIPE POLY WRAPPED WITH RESTRAINED JOINTS

WATERLINE RELOCATION DETAIL

NTS

GENERAL NOTES:
1. RELOCATE WATERLINE PER STANDARD DWG 2381.
2. ENTIRE ASSEMBLY MUST HAVE ADEQUATE THRUST RESTRAINT PER STANDARD DWG 2320.

CONSTRUCTION SURVEY POINTS

PT #	Northing	Easting
CS116	1523096.508	1543071.954

SCALE: 1" = 20'

SCALE: 1" = 5'

AS BUILT INFORMATION

CONTRACTOR: RMCI, INC.

WORK PERFORMED BY: CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTORS ACCEPTANCE BY: COA DATE 7-14

VERIFICATION BY: COA DATE 7-14

DRAWINGS PREPARED BY: SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY: DATE

NO.

ELEVATION=5222.09 (NAVD 1988)

BENCH MARKS

STATION STAMPED (10-C18 1985)

CITY OF ALBUQUERQUE SURVEY 3 1/4"

ALUMINUM DISK RIVETED TO PIPE LOCATED

BETWEEN ALAMEDA PL. & EAGLE ROCK RD

ON SAN PEDRO BLVD. EAST SIDE OF ROAD

X=1,524,123.885 Y=1,542,565.263

G-C=0.999865042

ΔX=0° 11' 19.43"

ELEVATION=5222.09 (NAVD 1988)

SURVEY INFORMATION

FIELD NOTES

NO.	DATE	BY

ENGINEERS SEAL

PROFESSIONAL ENGINEER 9677 NEW MEXICO REGISTERED

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE 3-10	DESIGNED BY D.E.M.	
	DATE 3-10	DRAWN BY D.E.M.	
	DATE 3-10	CHECKED BY D.B.T.	

Thompson Engineering Consultants, Inc.
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P.O. BOX 65760 ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199
FAX: (505) 830-9248

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: **SAN PEDRO STORM DRAIN**
SAN PEDRO DR. PLAN & PROFILE
STA. 115+80 TO STA. 120+00

Design Review Committee: APPROVED MAR 1 1 2019 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED MAR 1 1 2019 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91 | Zone Map No. C-18-Z | Sheet 75 Of 84

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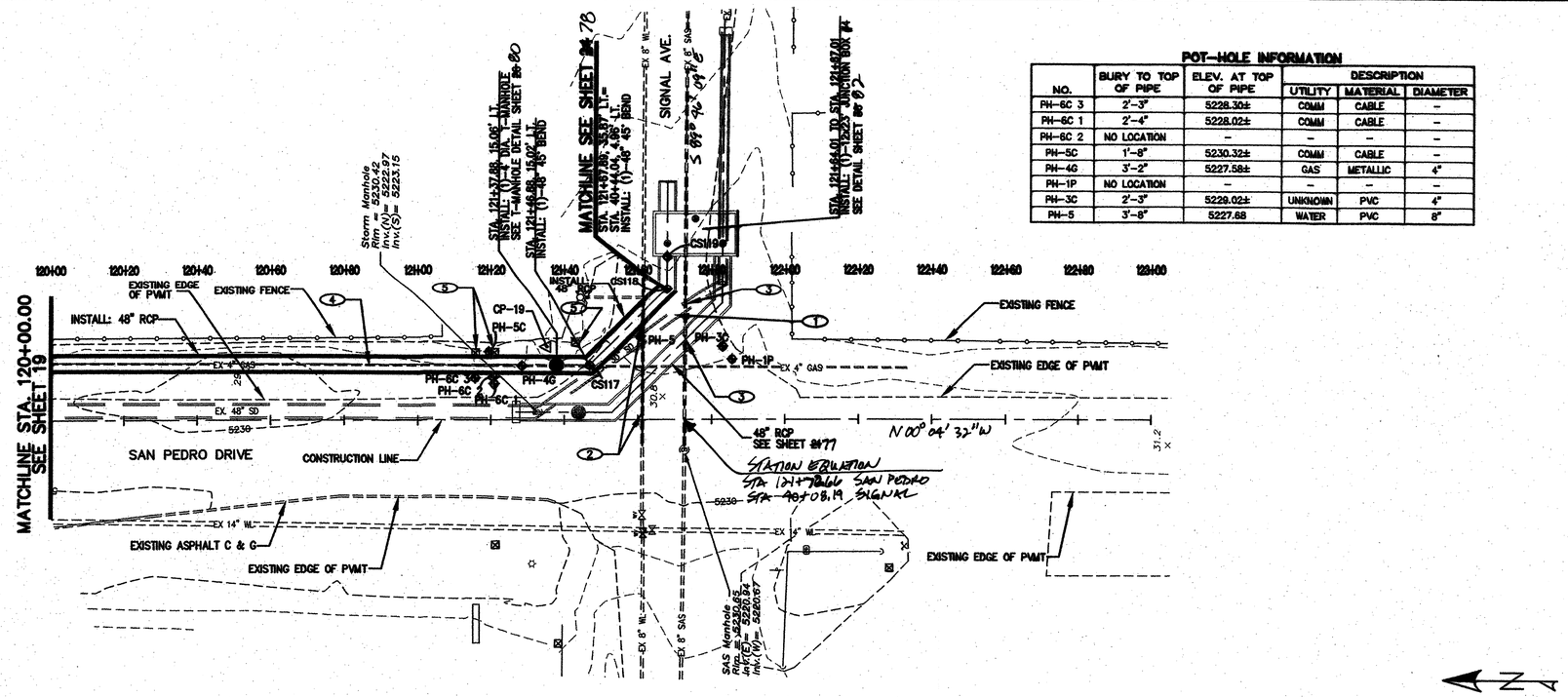
RECORD DRAWINGS



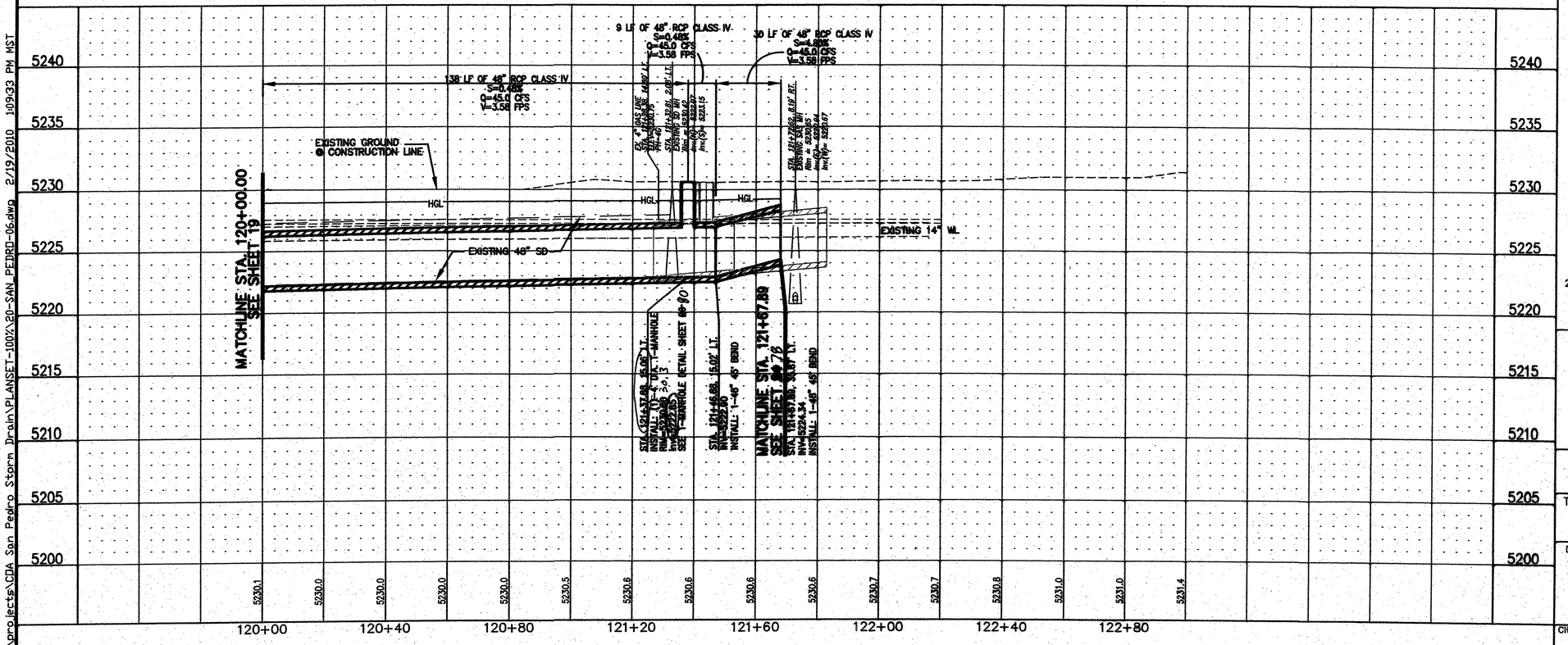
POT-HOLE INFORMATION

NO.	BURY TO TOP OF PIPE	ELEV. AT TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
PH-6C 3	2'-3"	5228.30±	COMM	CABLE	–
PH-6C 1	2'-4"	5228.02±	COMM	CABLE	–
PH-6C 2	NO LOCATION	–	–	–	–
PH-5C	1'-8"	5230.32±	COMM	CABLE	–
PH-4G	3'-2"	5227.58±	GAS	METALLIC	4"
PH-1P	NO LOCATION	–	–	–	–
PH-3C	2'-3"	5229.02±	UNKNOWN	PVC	4"
PH-5	3'-8"	5227.68	WATER	PVC	8"

KEYED NOTES:

1. REMOVE AND DISPOSE 87 LF EXISTING 30" RCP STORM DRAIN
2. REMOVE AND RELOCATE EXISTING 8" WATERLINE VERTICALLY SEE DETAIL SHEET #81
3. REMOVE AND RELOCATE EXISTING 8" SAS LINE VERTICALLY SEE DETAIL SHEET #81
4. EXISTING GAS LINE TO BE REMOVED & RELOCATED (BY OTHERS)
5. EXISTING PEDESTAL TO BE REMOVED & RELOCATED (BY OTHERS)

SAN PEDRO DRIVE



Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CONSTRUCTION SURVEY POINTS

PT #	Northing	Easting
CS117	1522590.612	1543070.615
CS118	1522569.625	1543091.491
CS119	1522569.6	1543100.995

SCALE: 1" = 20'

SCALE: 1" = 5'

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PHONE: (505) 271-2199 FAX: (505) 830-9248

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: SAN PEDRO STORM DRAIN
SAN PEDRO DR. PLAN & PROFILE
STA. 120+00 TO 121+82.86

Design Review Committee: APPROVED MAR 11 2010 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAR 11 2010 CITY ENGINEER
Last Design Update
No. / Bsy / Yr.

City Project No. 7663.91 | Zone Map No. C-18-Z | Sheet 76 Of 84

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

BENCH MARKS
STATION STAMPED (10-C18 1985)
CITY OF ALBUQUERQUE SURVEY 3 1/4" ALUMINUM DISK RIVETED TO PIPE LOCATED BETWEEN ALAMEDA PL. & EAGLE ROCK RD ON SAN PEDRO BLVD. EAST SIDE OF ROAD
X=1,524,123.885 Y=1,542,565.263
G-C=0.999665042
ΔX=0° 11' 19.43"
ELEVATION=5222.09 (NAVD 1988)

AS BUILT INFORMATION

	CONTRACTOR	DATE
WORK STAKED BY	CANDELARIA SURVEYS, INC.	DATE 7-14
INSPECTORS FIELD VERIFICATION BY	COA	DATE 7-14
REVISIONS MADE/CHANGES CORRECTED BY	COA	DATE 7-14
	SMITH ENGINEERING CO.	DATE 7-14

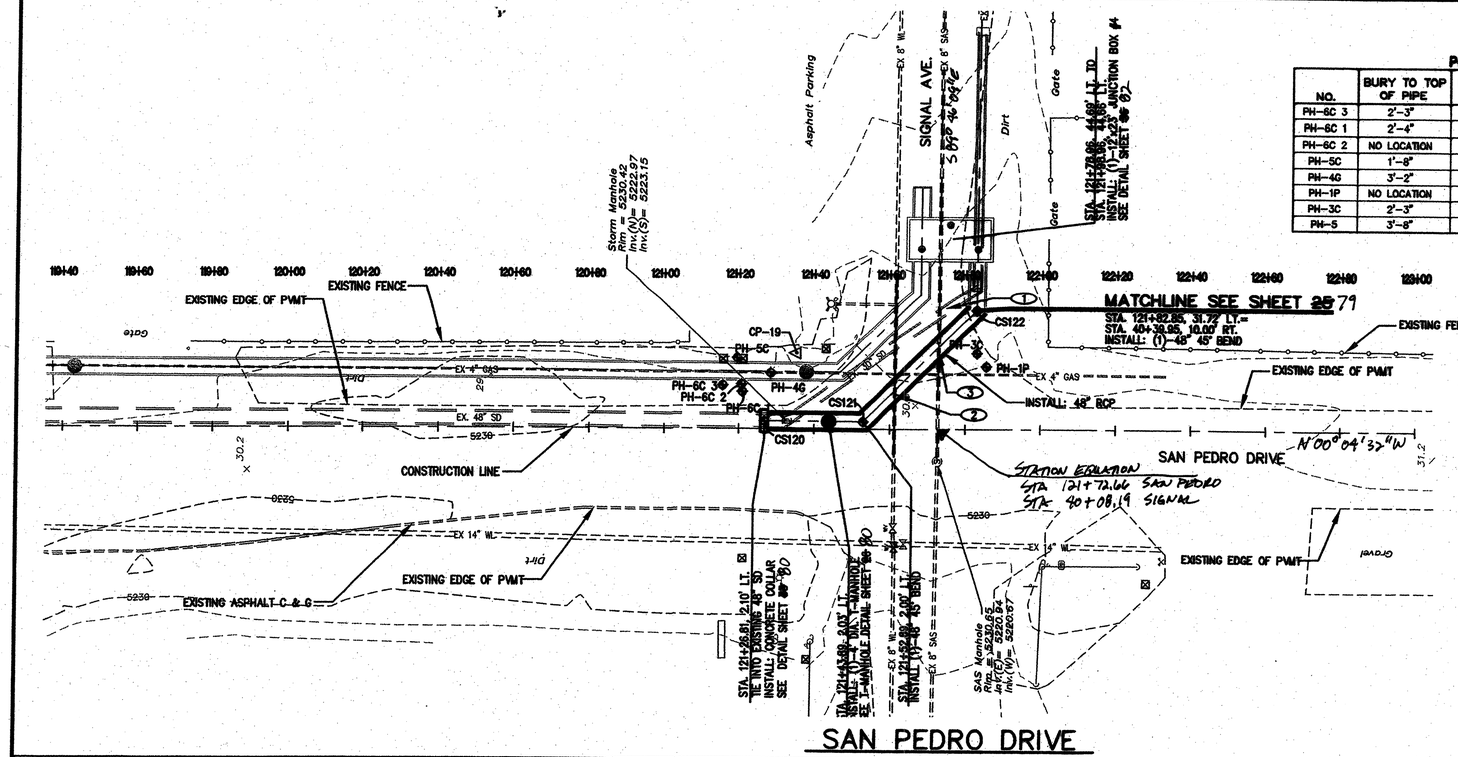
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS DESIGN	
DESIGNED BY	D.E.M.	DATE 3-10	
DRAWN BY	D.E.M.	DATE 3-10	
CHECKED BY	D.B.T.	DATE 3-10	

Q:\projects\COA San Pedro Storm Drain\PLANSET-100\20-SAN_PEDRO-06.dwg 2/19/2010 1:09:33 PM MST

RECORD DRAWINGS

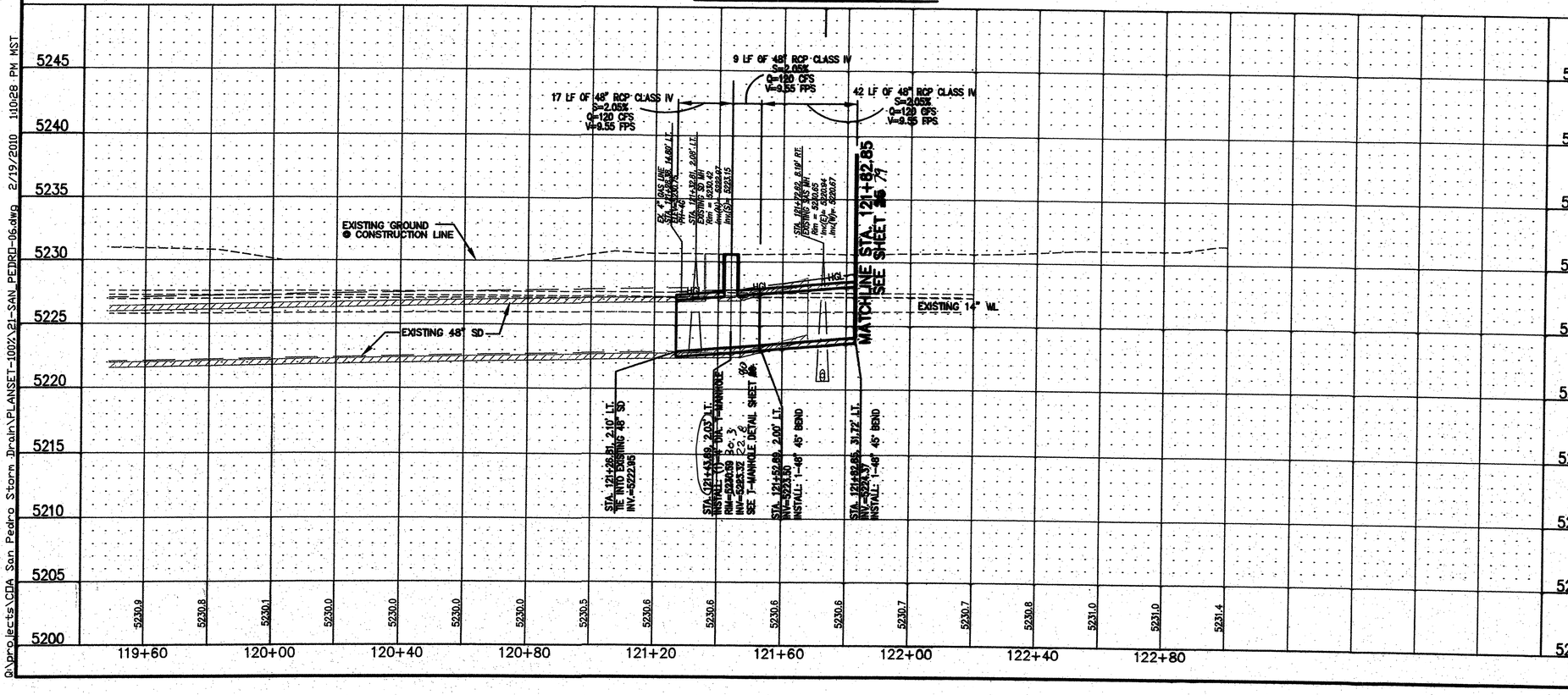


POT-HOLE INFORMATION

NO.	BURY TO TOP OF PIPE	ELEV. AT TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
PH-6C 3	2'-3"	5228.30±	COMM	CABLE	–
PH-6C 1	2'-4"	5228.02±	COMM	CABLE	–
PH-6C 2	NO LOCATION	–	–	–	–
PH-5C	1'-8"	5230.32±	COMM	CABLE	–
PH-4G	3'-2"	5227.58±	GAS	METALLIC	4"
PH-1P	NO LOCATION	–	–	–	–
PH-3C	2'-3"	5229.02±	UNKNOWN	PVC	4"
PH-5	3'-8"	5227.68±	WATER	PVC	8"

KEYED NOTES:

1. REMOVE AND DISPOSE 87 LF EXISTING 30" RCP STORM DRAIN
2. REMOVE AND RELOCATE EXISTING 8" WATERLINE VERTICALLY SEE DETAIL SHEET #8 81
3. REMOVE AND RELOCATE EXISTING 8" SAS LINE VERTICALLY SEE DETAIL SHEET #8 81



CONSTRUCTION SURVEY POINTS

Pt. #	Northing	Easting
CS120	1522610.669	1543057.668
CS121	1522584.583	1543057.599
CS122	1522554.68	1543087.344

SCALE: 1" = 5'

SCALE: 1" = 20'

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

B. J. Mest

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com
P.O. BOX 65760 ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199
FAX: (505) 830-9246

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S INITIALS BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
REVISIONS MADE BY SMITH ENGINEERING CO. DATE 7-14
CORRECTED BY MICRO-FILM INFORMATION DATE 7-14
RECORDED BY DATE
NO.

BENCH MARKS
STATION STAMPED (10-C18 1985)
CITY OF ALBUQUERQUE SURVEY 3 1/4" ALUMINUM DISK RIVETED TO PIPE LOCATED BETWEEN ALAMEDA PL. & EAGLE ROCK RD ON SAN PEDRO BLVD. EAST SIDE OF ROAD
X=1,524,123.885 Y=1,542,565.263
G-C=0.999665042
ΔX=0° 11' 19.43"
ELEVATION=5222.09 (NAVD 1988)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		DESIGN	

DESIGNED BY D.E.M. DATE 3-10
DRAWN BY D.E.M. DATE 3-10
CHECKED BY D.B.T. DATE 3-10

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

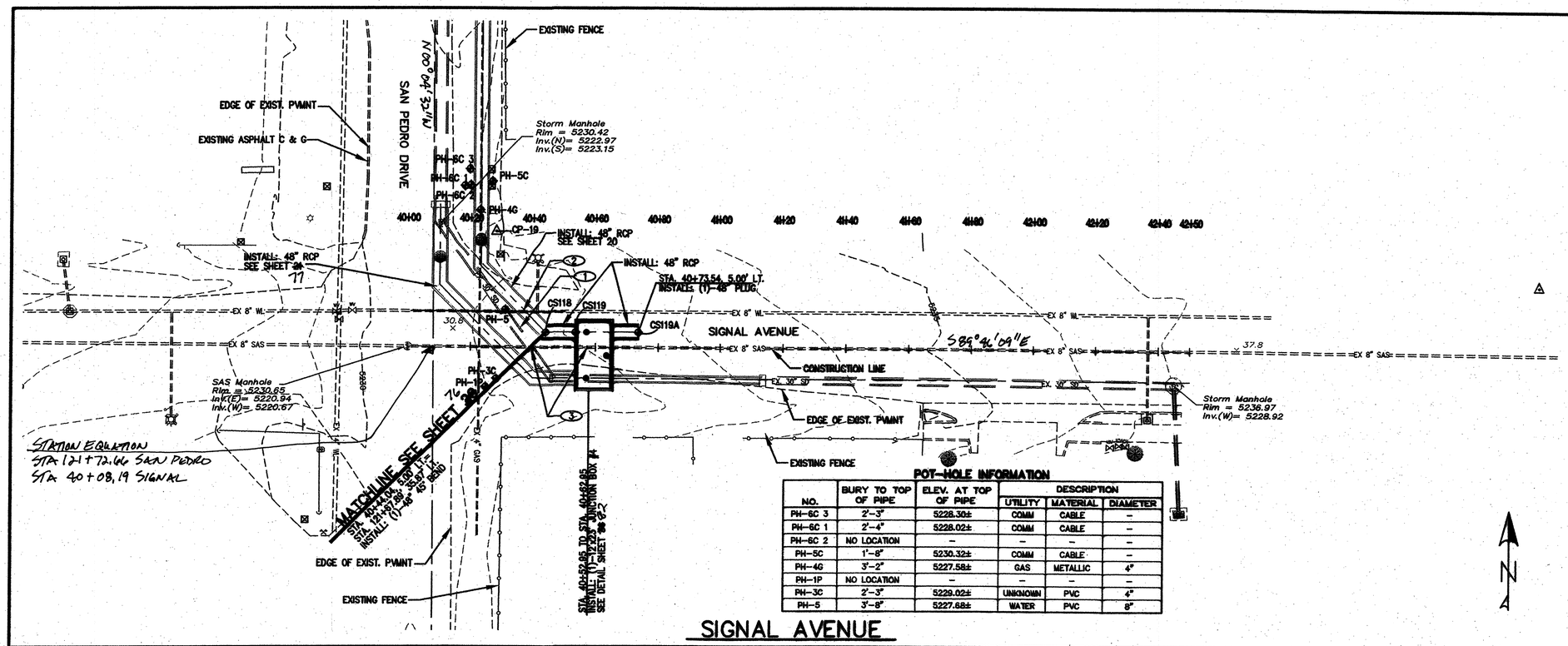
TITLE: **SAN PEDRO STORM DRAIN**
SAN PEDRO DR. PLAN & PROFILE
48" RCP AT SIGNAL AVENUE

Design Review Committee: APPROVED MAR 11 2010 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAR 11 2010 CITY ENGINEER
Last Design Update
No. / Day / Yr.

City Project No. 7663.91
Zone Map No. C-18-Z
Sheet 77 Of 84

Q:\projects\CDA San Pedro Storm Drain\PLANSET-100%\21-SAN_PEDRO-06.dwg 2/19/2010 1:10:28 PM MST

RECORD DRAWINGS



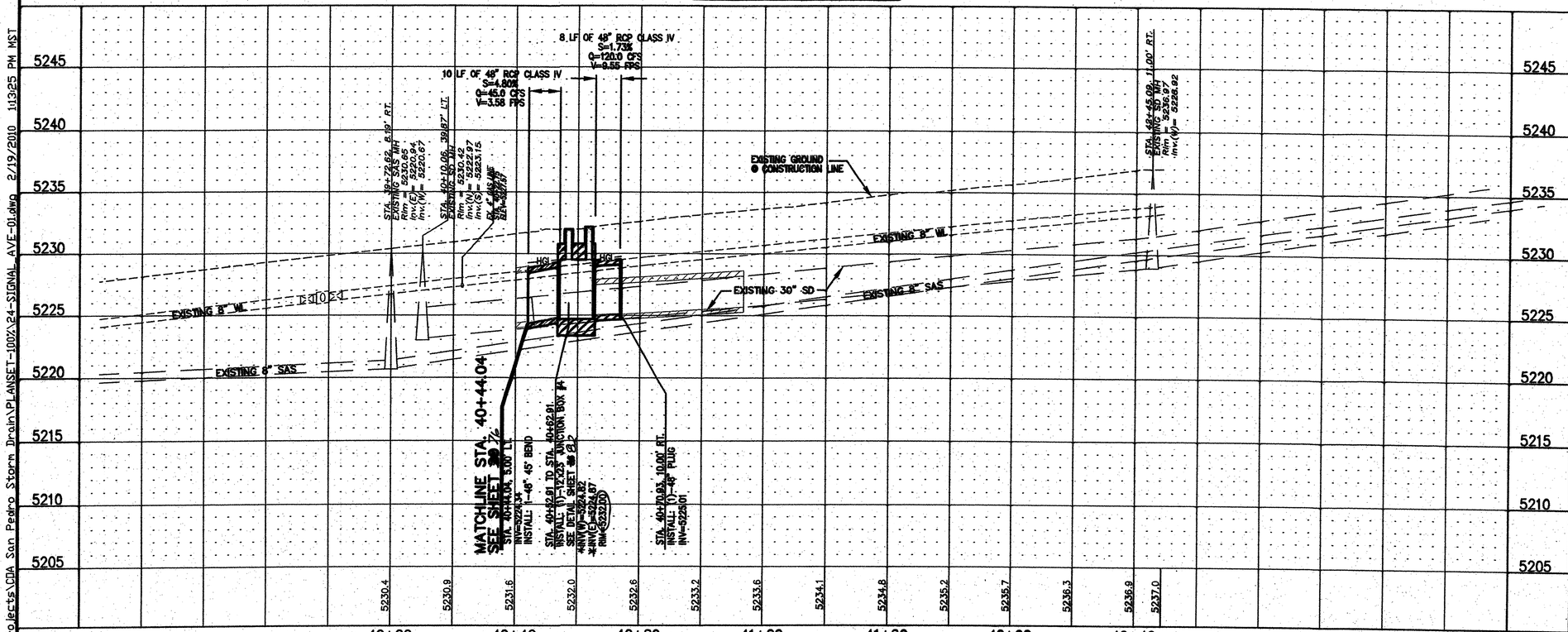
KEYED NOTES:

1. REMOVE AND DISPOSE OF EXISTING 30" RCP STORM DRAIN
2. RELOCATE EXISTING 8" DIA. WATERLINE VERTICALLY SEE DETAIL SHEET 21
3. RELOCATE EXISTING 8" SAS LINE VERTICALLY SEE DETAIL SHEET 21

POT-HOLE INFORMATION

NO.	BURY TO TOP OF PIPE	ELEV. AT TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
PH-6C 3	2'-3"	5228.30±	COMM	CABLE	–
PH-6C 1	2'-4"	5228.02±	COMM	CABLE	–
PH-6C 2	NO LOCATION	–	–	–	–
PH-5C	1'-8"	5230.32±	COMM	CABLE	–
PH-4G	3'-2"	5227.58±	GAS	METALLIC	4"
PH-1P	NO LOCATION	–	–	–	–
PH-3C	2'-3"	5229.02±	UNKNOWN	PVC	4"
PH-5	3'-8"	5227.68±	WATER	PVC	8"

SIGNAL AVENUE



*Lids were locked, therefore unable to verify inverts

CONSTRUCTION SURVEY POINTS

Pt #	Northing	Easting
CS118	1522569.625	1543091.491
CS119	1522569.600	1543100.995
CS119A	1522569.547	1543120.995

SCALE: 1" = 20'

SCALE: 1" = 5'

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com
P.O. BOX 657/60
ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199
FAX: (505) 830-9248

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
STATION STAMPED (10-C18 1985)
CITY OF ALBUQUERQUE SURVEY 3 1/4"
ALUMINUM DISK RIVETED TO PIPE LOCATED
BETWEEN ALAMEDA PL. & EAGLE ROCK RD
ON SAN PEDRO BLVD. EAST SIDE OF ROAD
X=1,524,123.885 Y=1,542,565.263
G-C=0.999665042
ΔX=0° 11' 19.43"
ELEVATION=5222.09 (NAVD 1988)

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS REVISED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY	
DATE	
NO.	

ENGINEERS' SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	D.E.M.	DATE 3-10
DRAWN BY	D.E.M.	DATE 3-10
CHECKED BY	D.B.T.	DATE 3-10

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: SAN PEDRO STORM DRAIN
SIGNAL AVE. PLAN & PROFILE NORTH 48" RCP

Design Review Committee: APPROVED MAR 11 2010 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAR 11 2010 CITY ENGINEER
Last Design Update
No. / Day / Yr.
No. / Day / Yr.

City Project No. 766391
Zone Map No. C-18-Z
Sheet 78 Of 84

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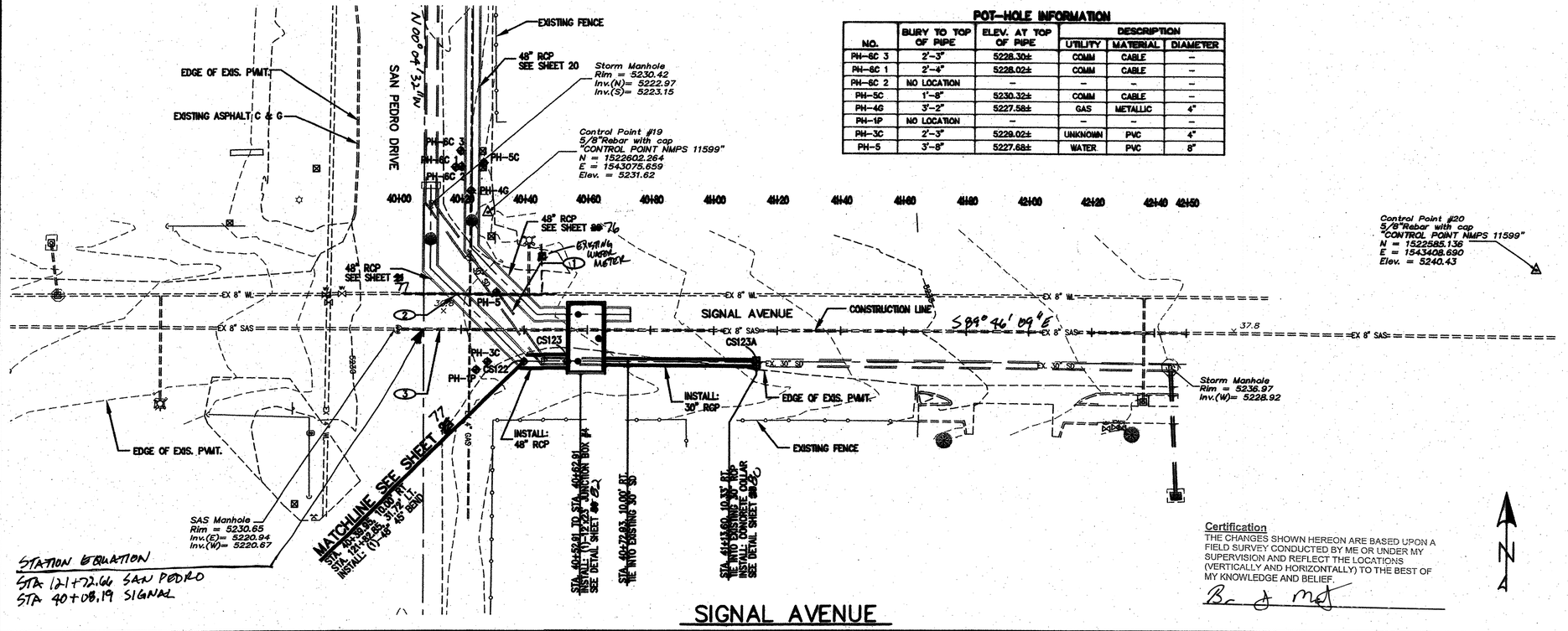
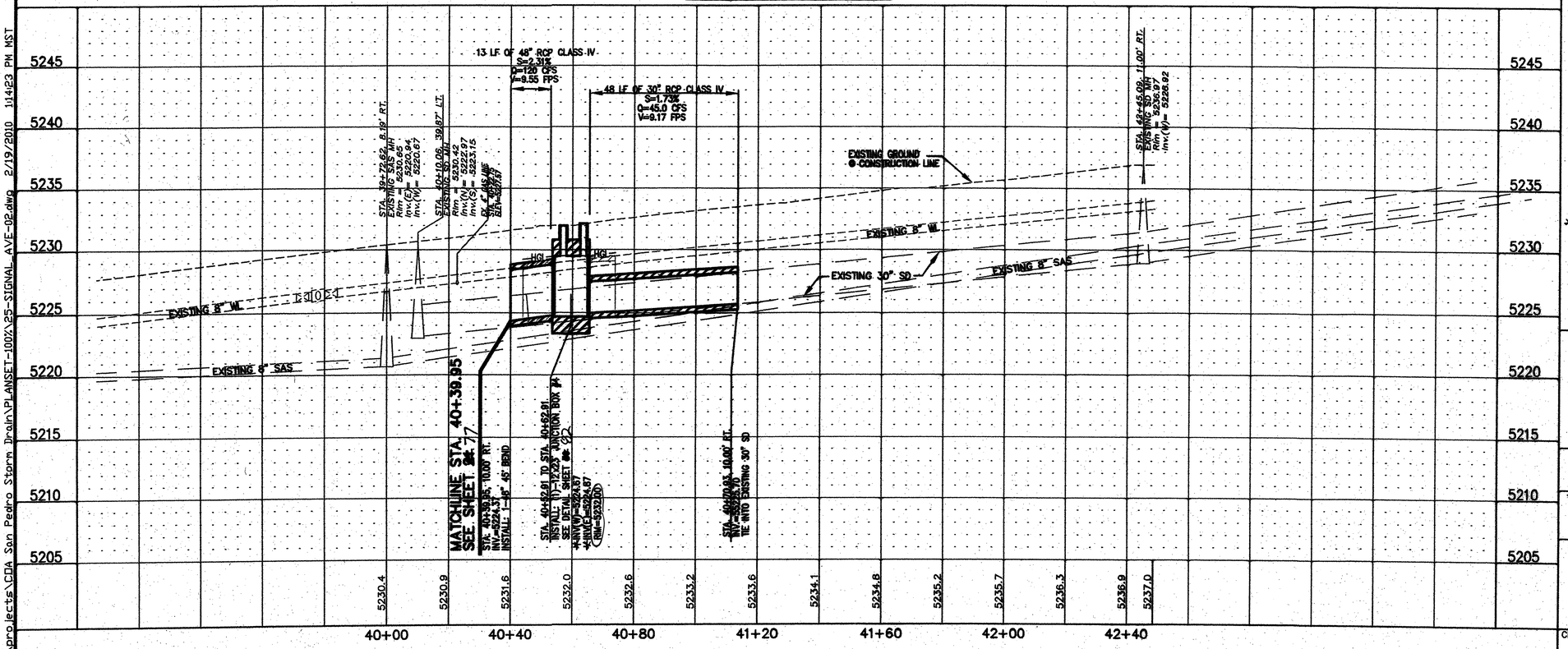
RECORD DRAWINGS



SIGNAL AVENUE



POT-HOLE INFORMATION

NO.	BURY TO TOP OF PIPE	ELEV. AT TOP OF PIPE	DESCRIPTION		
			UTILITY	MATERIAL	DIAMETER
PH-6C 3	2'-3"	5228.30±	COMM	CABLE	–
PH-6C 1	2'-4"	5228.02±	COMM	CABLE	–
PH-6C 2	NO LOCATION	–	–	–	–
PH-5C	1'-8"	5230.32±	COMM	CABLE	–
PH-4C	3'-2"	5227.58±	GAS	METALLIC	4"
PH-1P	NO LOCATION	–	–	–	–
PH-3C	2'-3"	5229.02±	UNKNOWN	PVC	4"
PH-5	3'-8"	5227.68±	WATER	PVC	8"

KEYED NOTES:

1. REMOVE AND DISPOSE OF EXISTING 30" RCP STORM DRAIN
2. RELOCATE EXISTING 8" DIA. WATERLINE VERTICALLY SEE DETAIL SHEET #8 #1
3. RELOCATE EXISTING 8" SAS LINE VERTICALLY SEE DETAIL SHEET #8 #1

Certification

THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CONSTRUCTION SURVEY POINTS

PT #	Northing	Easting
CS122	1522554.68	1543087.344
CS123	1522554.825	1543100.989
CS123A	1522554.058	1543160.989

*Lids were locked, therefore unable to verify inverts

20' 10' 0 20' 40'
SCALE: 1" = 20'

10' 5' 0 2.5' 5'
SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com
P.O. BOX 65760 ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199 FAX: (505) 830-9246

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS
STATION STAMPED (10-C18 1985)
CITY OF ALBUQUERQUE SURVEY 3 1/4"
ALUMINUM DISK RIVETED TO PIPE LOCATED BETWEEN ALAMEDA PL. & EAGLE ROCK RD ON SAN PEDRO BLVD. EAST SIDE OF ROAD
X=1,524,123.885 Y=1,542,565.263
G-C=0.999865042
ELEVATION=5222.09 (NAVD 1988)

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTORS ACCEPTANCE BY	COA	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS REVIEWED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY D.E.M. DATE 3-10
DRAWN BY D.E.M. DATE 3-10
CHECKED BY D.B.T. DATE 3-10

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: SAN PEDRO STORM DRAIN
SIGNAL AVE. PLAN & PROFILE SOUTH 48" RCP

Design Review Committee: APPROVED MAR 11 2010 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAR 11 2010 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No. 766391 | Zone Map No. C-18-Z | Sheet 79 Of 84

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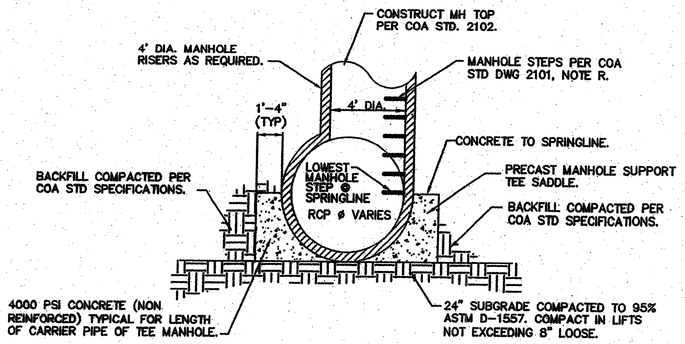
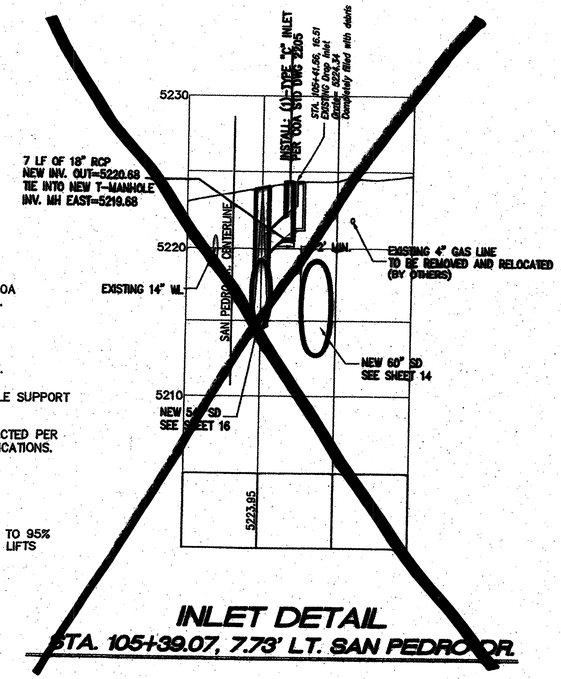
RECORD DRAWINGS



STORM DRAIN TEE MANHOLE DETAIL

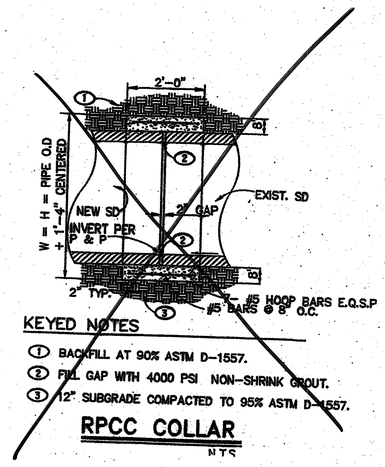
N.T.S.

TO BE USED ON ALL SD TEE MH'S.



INLET DETAIL

STA. 105+39.07, 7.73' LT. SAN PEDRO DR.

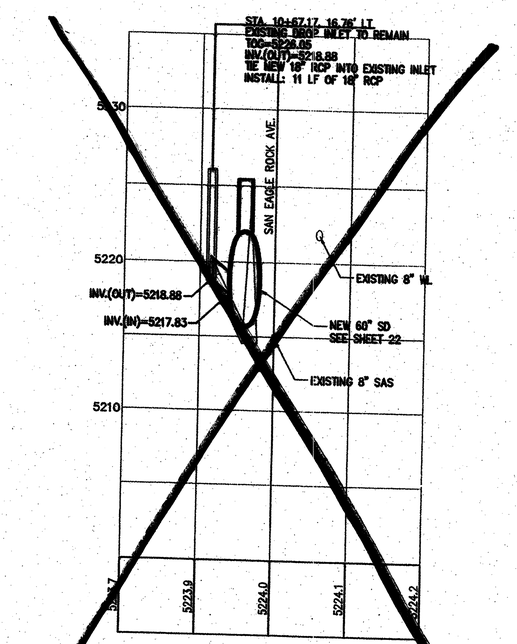


KEYED NOTES

1. BACKFILL AT 90% ASTM D-1557.
2. FILL GAP WITH 4000 PSI NON-SHRINK GROUT.
3. 12" SUBGRADE COMPACTED TO 95% ASTM D-1557.

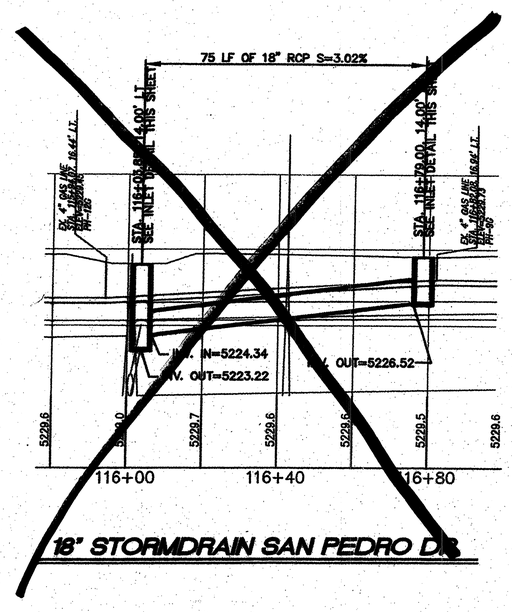
RPCC COLLAR

N.T.S.

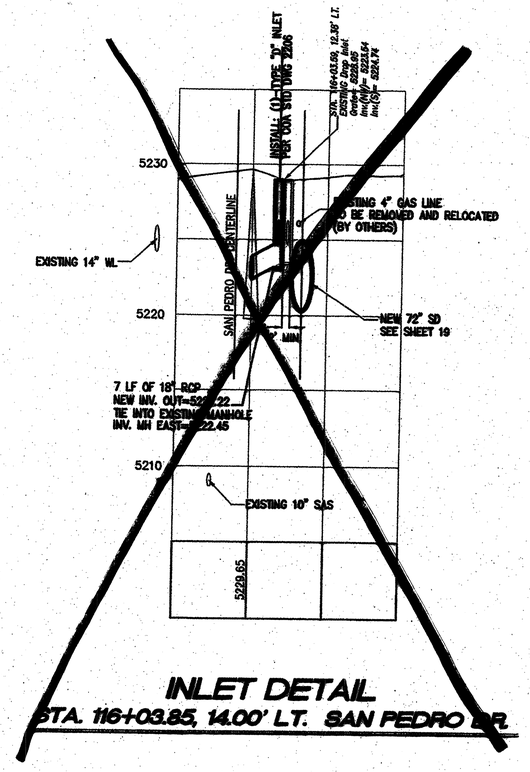


INLET DETAIL

STA. 10+67.17, 16.76' LT EAGLE ROCK AVE

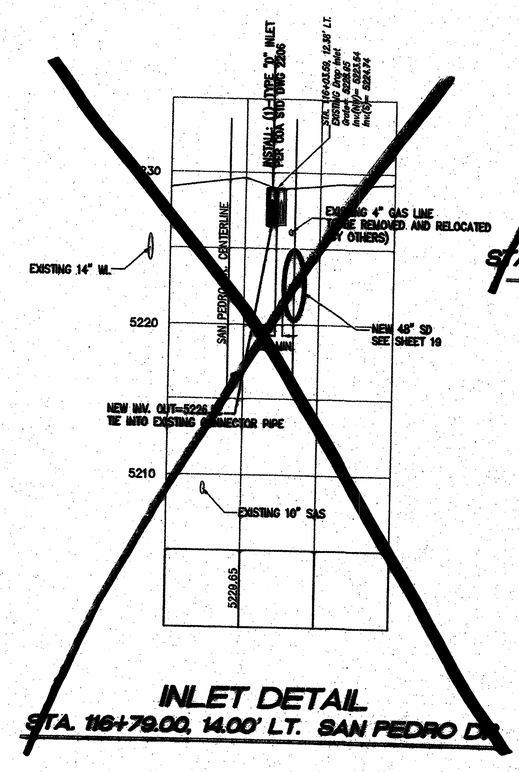


18" STORMDRAIN SAN PEDRO DR



INLET DETAIL

STA. 116+03.85, 14.00' LT. SAN PEDRO DR.



INLET DETAIL

STA. 116+79.00, 14.00' LT. SAN PEDRO DR.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS

STATION STAMPED (10-C18 1985)
CITY OF ALBUQUERQUE SURVEY 3 1/4"
ALUMINUM DISK RIVETED TO PIPE LOCATED BETWEEN ALAMEDA PL. & EAGLE ROCK RD ON SAN PEDRO BLVD. EAST SIDE OF ROAD
X=1,524,123.885 Y=1,542,565.263
G-C=0.999665042
ΔX=0° 11' 19.43"
ELEVATION=5222.09 (NAVD 1988)

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTORS ACCEPTANCE BY COA DATE 7-14
VERIFICATION BY COA DATE 7-14
DRAWING PREPARED BY SMITH ENGINEERING DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY
DATE
NO.
ELEVATION=5222.09 (NAVD 1988)

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY D.E.M.	DATE 3-10
		DRAWN BY D.E.M.	DATE 3-10
		CHECKED BY D.B.T.	DATE 3-10

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com
P.O. BOX 65760 ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199 FAX: (505) 830-9248

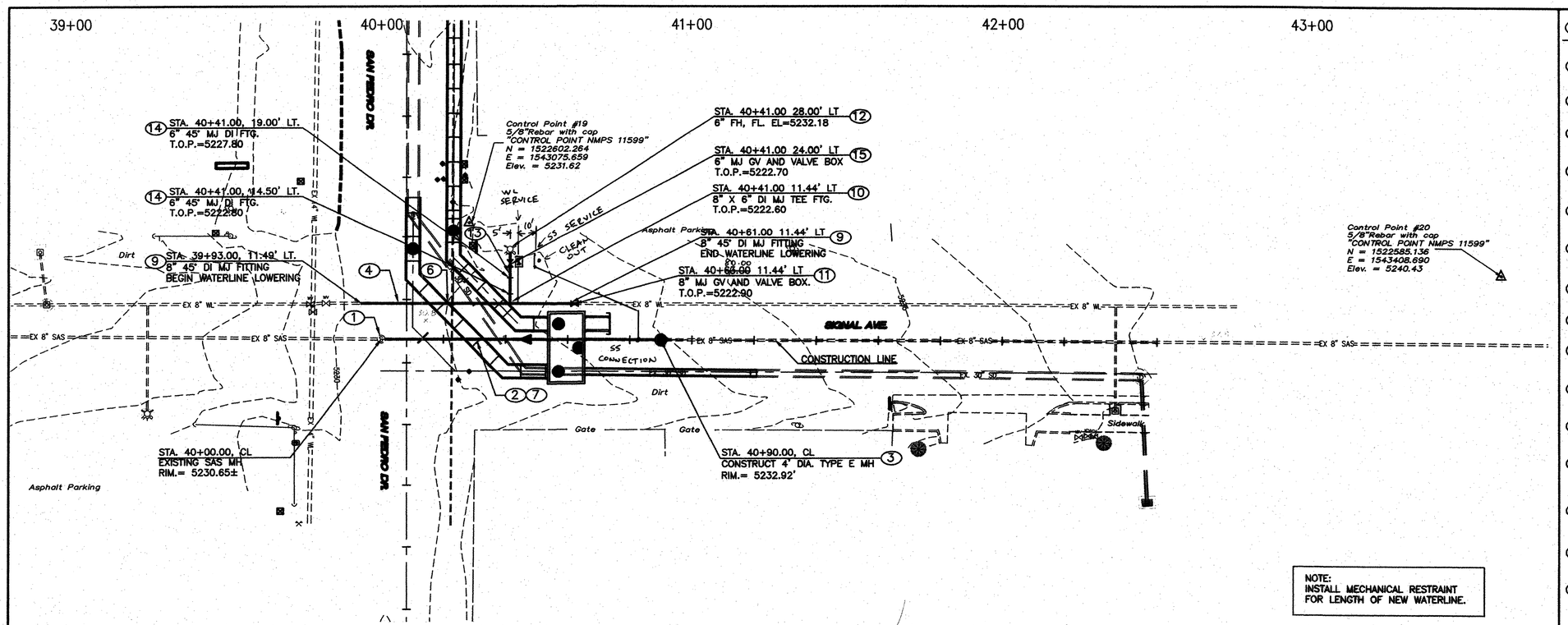
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

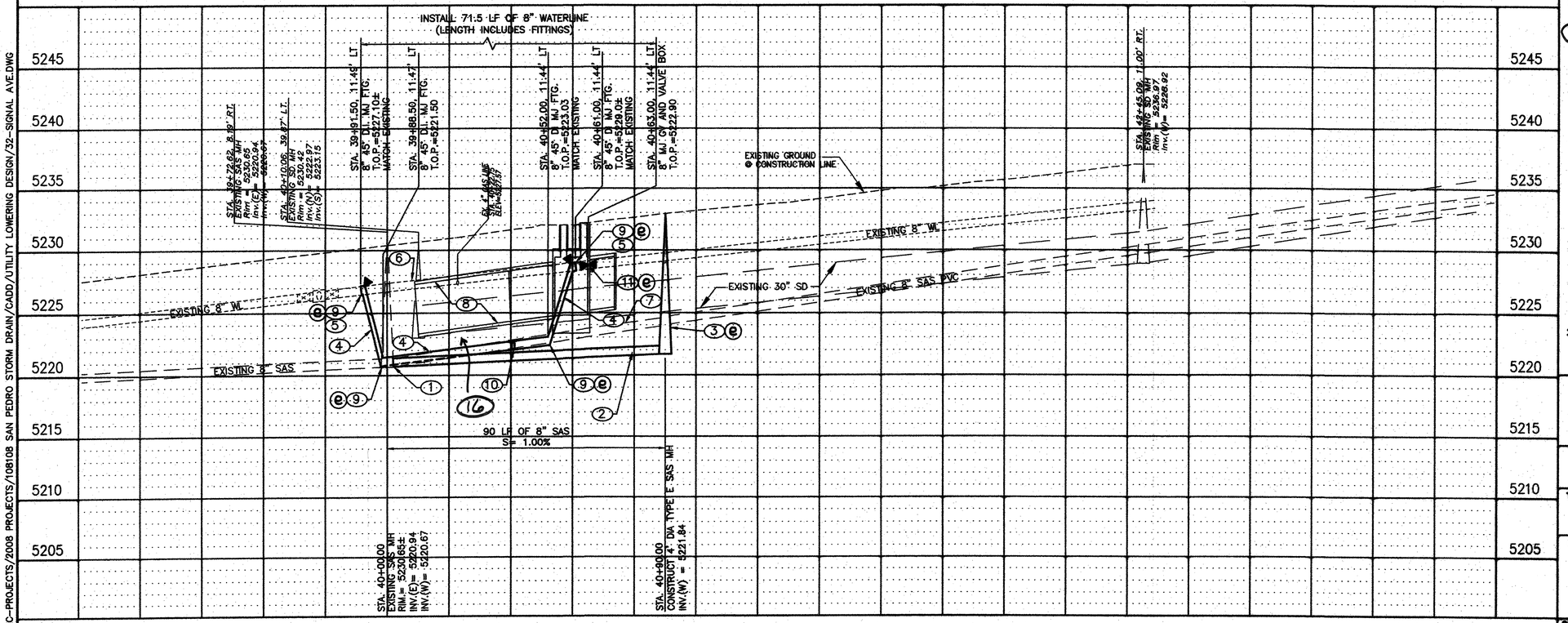
TITLE: SAN PEDRO STORM DRAIN
T-MANHOLE & STORM INLET DETAILS

Design Review Committee: APPROVED MAR 11 2010 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAR 11 2010 CITY ENGINEER
Last Design Update
No. / Day / Yr. | No. / Day / Yr.

City Project No. 766391
Zone Map No. C-18-Z
Sheet 80 Of 84

Q:\projects\COA San Pedro Storm Drain\PLANSET-100%\26-INLET DETAILS.dwg 2/19/2010 11:51:2 PM MST





KEYED NOTES:

1. CONNECT NEW 8" SAS TO EXISTING MANHOLE PER COA STD. DWG. 2102.
2. INSTALL 90 LF 8" C900 DR18 SAS.
3. CONSTRUCT 4' DIAMETER TYPE E MANHOLE PER COA STD. DWG. 2102.
4. NEW 8" C-900 DR18 WATERLINE. FULLY RESTRAIN ALL JOINTS IN NEW SECTION OF PIPE.
5. INSTALL PCC BLOCKING AT 45° FITTINGS PER COA STD. DWG. 2320.
6. REMOVE AND DISPOSE OF 70 LF OF 8" WATERLINE.
7. REMOVE AND DISPOSE OF 90 LF OF 8" SAS.
8. PROPOSED STORM DRAIN SYSTEM.
9. INSTALL 8" 45° DUCTILE IRON MECHANICAL JOINT FITTING.
10. INSTALL 8" X 6" TEE DUCTILE IRON MECHANICAL JOINT FITTING.
11. INSTALL 8" MECHANICAL JOINT GATE VALVE AND TYPE "A" VALVE BOX.
12. REMOVE AND REPLACE EXISTING FIRE HYDRANT, WITH NEW HYDRANT. BLOCK PER COA STD DWG. 2340.
13. NEW 6" DUCTILE IRON WATERLINE. FULLY RESTRAIN ALL JOINTS IN NEW SECTION OF PIPE.
14. INSTALL 6" 45° DUCTILE IRON MECHANICAL JOINT FITTING.
15. INSTALL 6" MECHANICAL JOINT GATE VALVE AND TYPE "A" VALVE BOX.
- (e) INSTALL EMD.
16. PLACE LEAN FILL PER COA STD. DWG. 2381.

SCALE: 1" = 20'

SCALE: 1" = 5'

108108

Smith Engineering Company
A Full Service Engineering Company
2901 San Pedro Boulevard N.E. Bldg. #1, Suite 200 Albuquerque, New Mexico 87110

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO. ELEVATION=5222.09 (NAVD 1988)

Δ X=0° 11' 19.43"

BENCH MARKS

STATION STAMPED (10-C1B 1985)

CITY OF ALBUQUERQUE SURVEY 3 1/4"

NO.	DATE	BY
11599	5/2008	SURVEYING CONTROL, INC.

ALUMINUM DISK RIVETED TO PIPE LOCATED BETWEEN ALAMEDA PL. & EAGLE ROCK RD. ON SAN PEDRO BLVD. EAST SIDE OF ROAD

X=1,524,123.885 Y=1,542,565.263

G-C=0.999665042

SURVEY INFORMATION

FIELD NOTES

ENGINEERS SEAL

PATRICIO J. CONLEY NEW MEXICO 14841 REGISTERED PROFESSIONAL ENGINEER 2010

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY PJC DATE 03/10

DRAWN BY SEC DATE 03/10

CHECKED BY PJC DATE 03/10

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DESIGN DIVISION

TITLE: SAN PEDRO STORM DRAIN
SIGNAL AVE. PLAN & PROFILE
UTILITY LOWERING

Design Review Committee: APPROVED MAR 11 2010 DESIGN REVIEW COMMITTEE

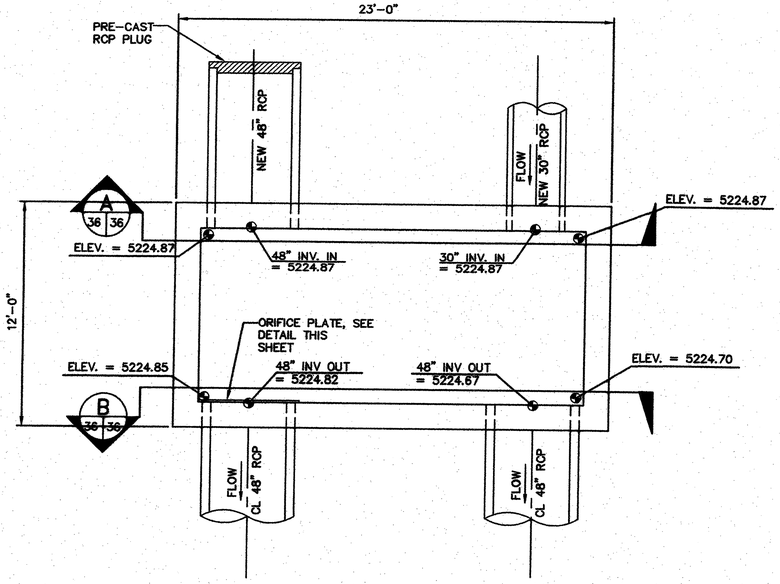
City Engineer Approval: APPROVED MAR 11 2010 CITY ENGINEER

Last Design Update

No. / Dsy / Yr. | No. / Dsy / Yr.

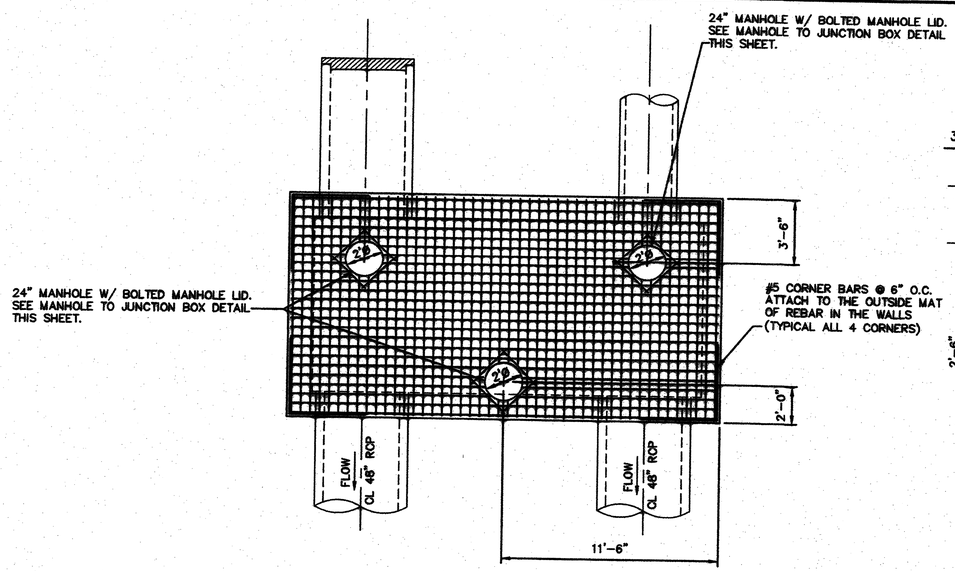
City Project No. 766391 | Zone Map No. C-18-Z | Sheet 81 Of 84

Q:/SEC-PROJECTS/2008 PROJECTS/108108 SAN PEDRO STORM DRAIN/CADD/UTILITY LOWERING DESIGN/32-SIGNAL AVE.DWG



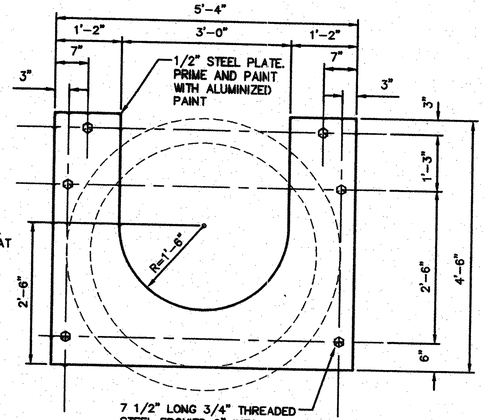
JUNCTION BOX – PLAN VIEW

1/4"=1'-0"



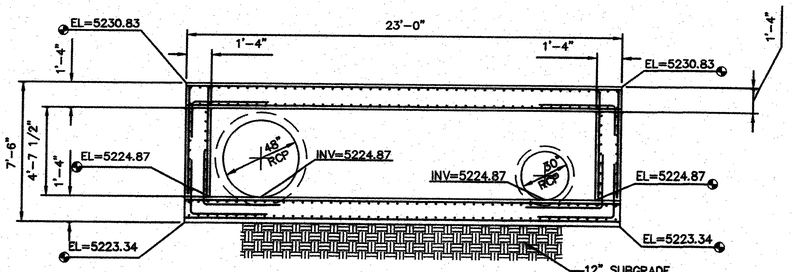
JUNCTION BOX – TOP PLAN VIEW

1/4"=1'-0"



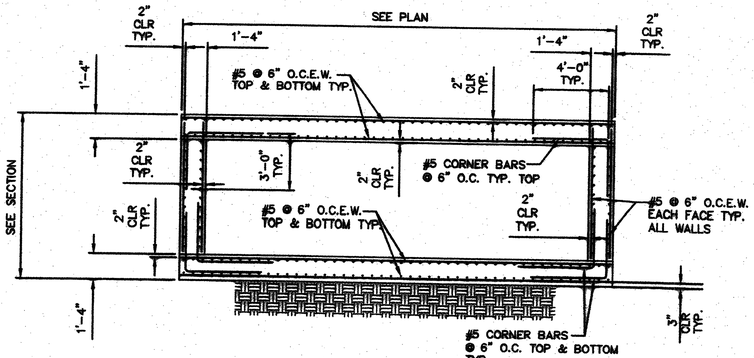
ORIFICE PLATE DETAIL – ELEVATION

3/4"=1'-0"



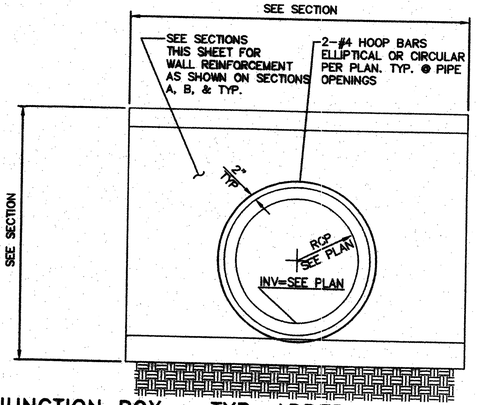
JUNCTION BOX – SECTION A

1/4"=1'-0"



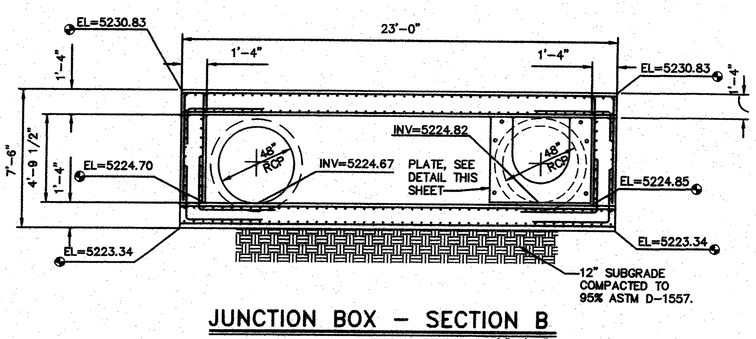
TYPICAL WALL SECTION

1/4"=1'-0"



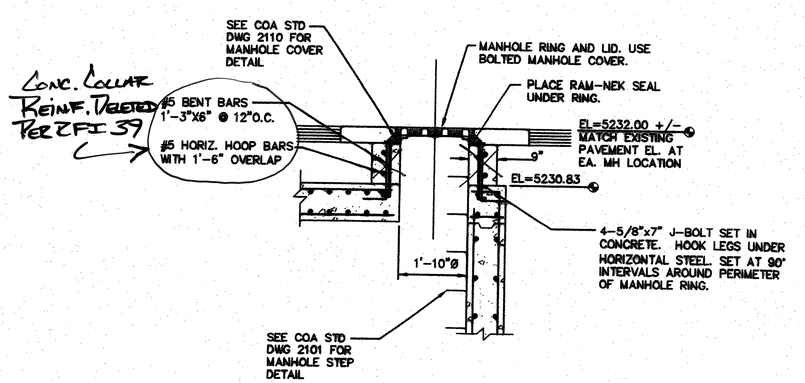
JUNCTION BOX – TYP. ADDED REINFORCEMENT AT PIPE PENETRATION

N.T.S.



JUNCTION BOX – SECTION B

1/4"=1'-0"



MANHOLE LID TO JUNCTION BOX DETAIL

N.T.S.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTED BY COA DATE 7-14

ACCEPTANCE BY COA DATE 7-14

VERIFICATION BY COA DATE 7-14

DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

STATION STAMPED (10-C18 1985)

CITY OF ALBUQUERQUE SURVEY 3 1/4"

ALUMINUM DISK RIVETED TO PIPE LOCATED BETWEEN ALAMEDA PL. & EAGLE ROCK RD. ON SAN PEDRO BLVD. EAST SIDE OF ROAD

X=1,524,123.885 Y=1,542,565.263

G-C=0.999665042

Δ X=0° 11' 19.43"

ELEVATION=5222.09 (NAVD 1988)

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	STEPHEN TOLER	5/2008
	SURVEYING CONTROL, INC.	

ENGINEERS SEAL

NEW MEXICO PATRICK J. CONLEY 10141 PROFESSIONAL ENGINEER LICENSED 3/4/2010

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY PJC DATE 03/10

DRAWN BY SEC DATE 03/10

CHECKED BY PJC DATE 03/10

108108

Smith Engineering Company

A Full Service Engineering Company

5301 San Pedro Boulevard, N.E., Bldg. #4, Suite 200 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAIN DESIGN DIVISION

TITLE:

SAN PEDRO STORM DRAIN
JUNCTION BOX #4 - DETAIL SHEET

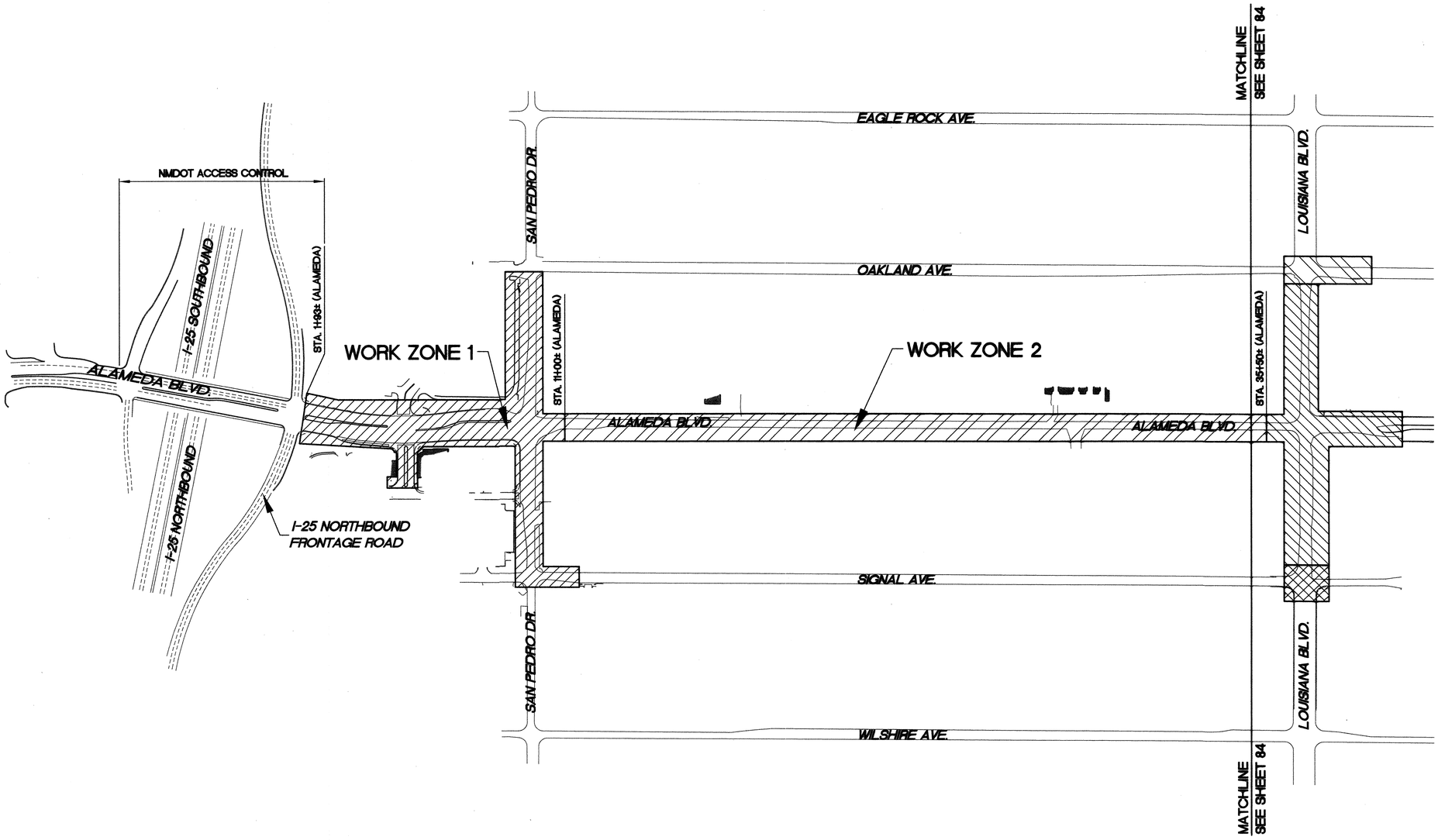
Design Review Committee: APPROVED MAR 11 2010 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED MAR 11 2010 CITY ENGINEER

Last Design Update: No. / Day / Yr. | No. / Day / Yr.

City Project No. 766391 | Zone Map No. C-18-Z | Sheet 82 Of 84

G:/SEC-PROJECTS/2008 PROJECTS/108108 SAN PEDRO STORM DRAIN/CADD/36-SKETCH 21A-032207(4).DWG



GENERAL TRAFFIC CONTROL CRITERIA:

1. ACCESS TO BUSINESSES WITHIN AND SURROUNDING THE LIMITS OF CONSTRUCTION SHALL BE MAINTAINED AT ALL TIMES. ACCESS SIGNS FOR AFFECTED BUSINESSES SHALL BE PROVIDED BY THE CONTRACTOR.
2. CONTRACTOR SHALL COORDINATE ANY TEMPORARY BUS STOP LOCATIONS WITH THE CITY OF ALBUQUERQUE TRANSIT DEPARTMENT.
3. THE TRAFFIC CONTROL PLAN SHALL MAINTAIN ACCESS TO BICYCLE AND PEDESTRIAN FACILITIES WITHIN THE CONSTRUCTION AREA AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE AN AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBLE PEDESTRIAN DETOUR AT ALL TIMES.
4. TEMPORARY PAVEMENT MAY BE REQUIRED AS PART OF THE APPROVED TRAFFIC CONTROL PLAN. TEMPORARY PAVEMENT SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARD DRAWING 2415B.
5. APPROVAL OF THE TRAFFIC CONTROL PLAN SHALL BE OBTAINED FROM THE CITY OF ALBUQUERQUE (COA) CONSTRUCTION DIVISION (505-924-3400) FOR ALL WORK ZONES AND THE NMDOT FOR WORK ZONE 1 TWO (2) DAYS PRIOR TO THE START OF CONSTRUCTION. THE NMDOT POINT OF CONTACT IS ANTONIO JARAMILLO, PE (505-841-2729).
6. CONTRACTOR MAY WORK EXTENDED HOURS FROM 7 A.M. TO 7 P.M. FOR THE DURATION OF THE PROJECT.
7. CONTRACTOR SHALL PROVIDE VARIABLE MESSAGE SIGNS AS REQUIRED IN THE TRAFFIC CONTROL PLAN.
8. CONSTRUCTION OF THE PROJECT WILL BE DIVIDED INTO SIX (6) WORK ZONES. CONSTRUCTION IN EACH WORK ZONE SHALL PROCEED SEQUENTIALLY AND IN NUMERICAL ORDER. CONSTRUCTION IN A SUBSEQUENT WORK ZONE SHALL NOT BEGIN UNTIL THE PREVIOUS WORK ZONE HAS REACHED SUBSTANTIAL COMPLETION AND IS OPEN TO TRAFFIC.
9. MEASUREMENT AND PAYMENT FOR ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL WILL BE MADE PER SUPPLEMENTAL TECHNICAL SPECIFICATION SECTION 1200 OF THE PROJECT MANUAL.

WORK ZONE 1

ALL CONSTRUCTION ON SAN PEDRO DRIVE (INCLUDING THE INTERSECTION AT SIGNAL AVENUE) AND ON ALAMEDA BOULEVARD FROM STATION 1+93 (BEGINNING OF PROJECT) TO APPROXIMATELY STATION 11+00. CONSTRUCTION OF THE INTERSECTION OF ALAMEDA BOULEVARD AND SAN PEDRO DRIVE WILL BE INCLUDED IN WORK ZONE 1.

WORK ZONE 1 SPECIFIC CRITERIA:

ACCESS TO SIGNAL AVENUE WEST OF SAN PEDRO DRIVE MUST ALSO BE MAINTAINED AT ALL TIMES. A MINIMUM OF ONE (1) TWELVE (12) FOOT LANE IN EACH DIRECTION MUST BE PROVIDED ON SAN PEDRO DRIVE AT ALL TIMES.

CONSTRUCTION IN WORK ZONE 1 WILL AFFECT TRAFFIC WITHIN AND NEAR THE NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) RIGHT-OF-WAY AND ACCESS CONTROL LIMITS. THE CONTRACTOR SHALL ADHERE TO ALL TRAFFIC CONTROL CRITERIA AS STIPULATED BY THE NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) AND THE COA. THE CONTRACTOR SHALL OBTAIN PERMITTING FROM THE NMDOT FOR TRAFFIC CONTROL WITHIN THE NMDOT RIGHT-OF-WAY AND ACCESS CONTROL LIMITS. THE NMDOT WILL REQUIRE A TEMPORARY SIGNING PLAN, A PRIMARY TRAFFIC CONTROL PLAN FOR THE WORK ASSOCIATED WITH THE PROJECT, AND A SUPPLEMENTARY TRAFFIC CONTROL PLAN FOR ANY ADDITIONAL CONSTRUCTION ACTIVITIES REQUIRED TO IMPLEMENT THE PRIMARY TRAFFIC CONTROL PLAN.

A MINIMUM OF ONE (1) TWELVE (12) FOOT WIDE LANE IN EACH DIRECTION SHALL BE MAINTAINED ON ALAMEDA BOULEVARD AT ALL TIMES. THE TRAFFIC CONTROL PLAN SHALL ACCOMMODATE TURNING MOVEMENTS FOR A WB-65 VEHICLE. NO LEFT TURN RESTRICTIONS WILL BE PERMITTED. IF THE TRAFFIC CONTROL PLAN REQUIRES THAT WESTBOUND TRAFFIC TRAVEL IN A LANE NORMALLY DESIGNATED FOR EASTBOUND TRAFFIC (SOUTHERN HALF OF ALAMEDA BOULEVARD) THROUGH THE WORK ZONE, A MEDIAN CROSSOVER WILL BE REQUIRED WITHIN NMDOT RIGHT-OF-WAY WEST OF THE INTERSECTION AT ALAMEDA BOULEVARD AND THE I-25 NORTHBOUND FRONTAGE ROAD. A MEDIAN CROSSOVER WILL ALSO BE REQUIRED IF THE TRAFFIC CONTROL PLAN REQUIRES THAT EASTBOUND TRAFFIC TRAVEL IN A LANE NORMALLY DESIGNATED FOR WESTBOUND TRAFFIC (NORTHERN HALF OF ALAMEDA BOULEVARD). THE MEDIAN CROSSOVER WILL BE USED TO DIRECT TRAFFIC BACK TO THE NORMALLY USED LANES FOR THE RESPECTIVE DIRECTION OF TRAVEL OUTSIDE OF THE CONSTRUCTION ZONE. THE WORK REQUIRED TO CONSTRUCT THE MEDIAN CROSSOVER WILL REQUIRE A SUPPLEMENTARY TRAFFIC CONTROL PLAN THAT SHALL BE SUBMITTED TO THE NMDOT FOR APPROVAL ALONG WITH THE TEMPORARY SIGNING PLAN AND ADDITIONAL REQUIRED TRAFFIC CONTROL PLANS FOR CONSTRUCTION ACTIVITIES WITHIN THE NMDOT RIGHT-OF-WAY AND ACCESS CONTROL LIMITS.

TEMPORARY TRAFFIC SIGNALS MAY BE REQUIRED ON ALAMEDA BOULEVARD IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). CONTRACTOR SHALL PROVIDE VARIABLE MESSAGE SIGNS ON THE INTERSTATE 25 NORTHBOUND FRONTAGE ROAD AND ON EASTBOUND ALAMEDA BOULEVARD FOR THE DURATION OF THE PROJECT.

WORK ZONE 2

ALL CONSTRUCTION ON ALAMEDA BOULEVARD FROM APPROXIMATELY STATION 11+00 TO STATION 36+50 (ALAMEDA BOULEVARD BETWEEN SAN PEDRO DRIVE AND LOUISIANA BOULEVARD).

WORK ZONE 2 SPECIFIC CRITERIA:

FOR CONSTRUCTION ACTIVITIES IN WORK ZONE 2 A FULL CLOSURE OF ALAMEDA BOULEVARD BETWEEN SAN PEDRO DRIVE AND LOUISIANA BOULEVARD WILL BE ALLOWED. ALL THROUGH TRAFFIC LANES (NORTHBOUND AND SOUTHBOUND LANES) ON SAN PEDRO DRIVE AND LOUISIANA BOULEVARD SHALL REMAIN OPEN DURING THIS TIME.

SIGNAL AVENUE BETWEEN LOUISIANA AND WYOMING BOULEVARDS SHALL NOT BE USED AS A DETOUR, AND OAKLAND AVENUE SHALL NOT BE USED AS A DETOUR.

LEGEND

WORK ZONE 1

WORK ZONE 2

200' 100' 0 200' 400'

SCALE: 1" = 200'

SEC JOB # 110203

SMITH ENGINEERING company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-3376
NEW MEXICO TEXAS

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
AS-BUILTED BY SMITH CORRECTED BY ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1254634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEERS SEAL

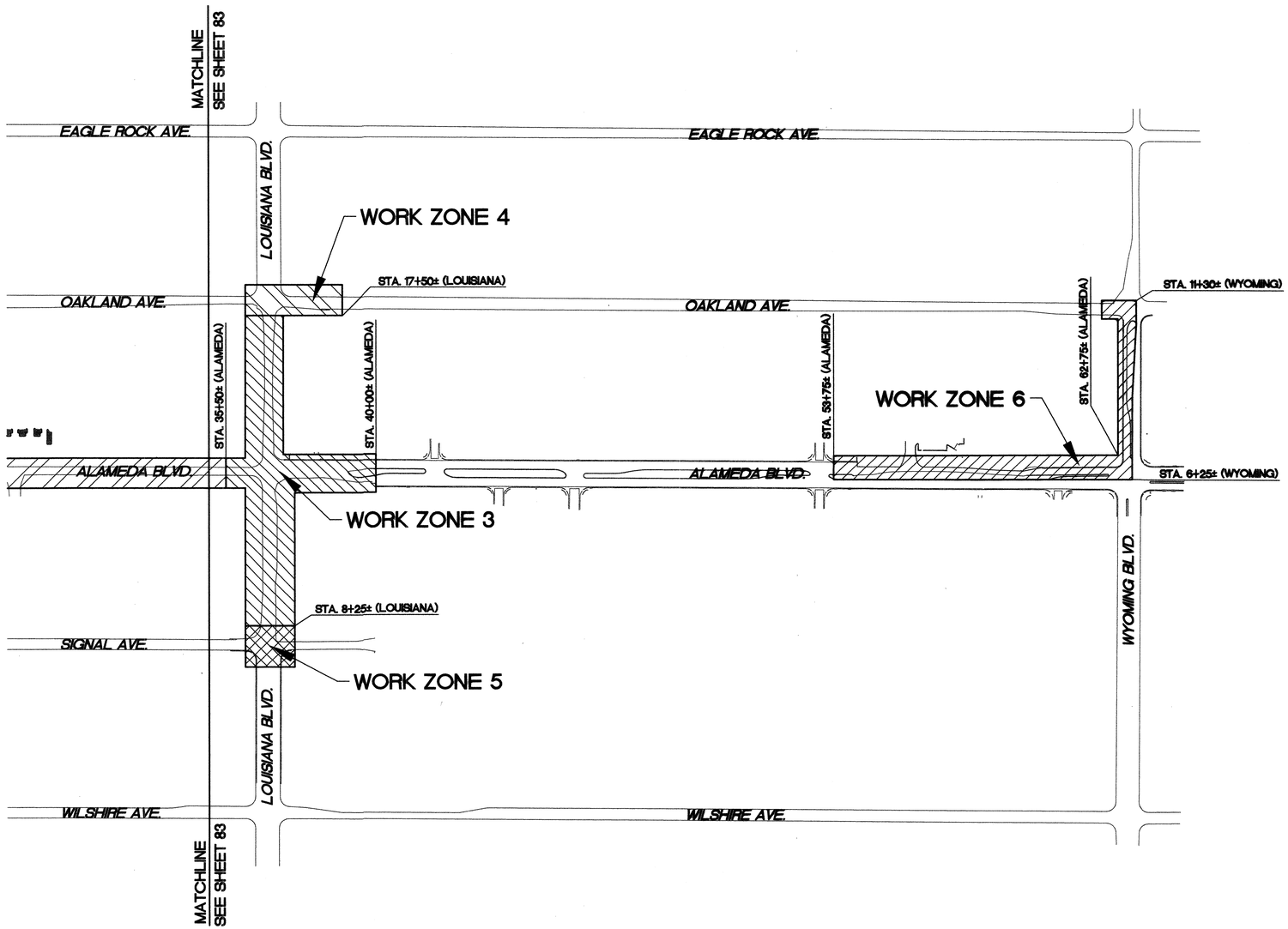
NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
WORK ZONE MAP

Design Review Committee	City Engineer Approval	Last Design Update	Mo. / Day / Yr.	Mo. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	10-1	83	84



WORK ZONE 3

ALL CONSTRUCTION ON LOUISIANA BOULEVARD FROM APPROXIMATELY STATION 8+25 TO 17+50 (BETWEEN SIGNAL AND OAKLAND AVENUES) AND ON ALAMEDA BOULEVARD FROM STATION 35+50 TO 40+00.

WORK ZONE 4

ALL CONSTRUCTION ON OAKLAND AVENUE EAST OF LOUISIANA BOULEVARD AND AT THE INTERSECTION OF OAKLAND AVENUE AND LOUISIANA BOULEVARD.

WORK ZONE 4 SPECIFIC CRITERIA:

SIGNAL AVENUE BETWEEN LOUISIANA AND WYOMING BOULEVARDS SHALL NOT BE USED AS A DETOUR, AND OAKLAND AVENUE SHALL NOT BE USED AS A DETOUR.

WORK ZONE 5

ALL CONSTRUCTION AT THE INTERSECTION OF SIGNAL AVENUE AND LOUISIANA BOULEVARD

WORK ZONE 5 SPECIFIC CRITERIA:

SIGNAL AVENUE BETWEEN LOUISIANA AND WYOMING BOULEVARDS SHALL NOT BE USED AS A DETOUR, AND OAKLAND AVENUE SHALL NOT BE USED AS A DETOUR.

WORK ZONE 6

ALL CONSTRUCTION ON WYOMING BOULEVARD (FROM APPROXIMATELY STATION 6+25 TO STATION 11+30) AND ALAMEDA BOULEVARD FROM STATION 53+75 TO 62+75. WORK ZONE 6 INCLUDES ANY CONSTRUCTION AT THE INTERSECTION OF WYOMING AND ALAMEDA BOULEVARDS.

WORK ZONE 6 SPECIFIC CRITERIA:

ACCESS TO THE EXISTING BUSINESS ON THE NORTH SIDE OF ALAMEDA BOULEVARD WITHIN WORK ZONE 6 SHALL BE MAINTAINED DURING ALL CONSTRUCTION ACTIVITIES IN WORK ZONE 6. DURING WORK ZONE 6 ACTIVITIES A MINIMUM OF ONE (1) TWELVE (12) FOOT WIDE LANE IN EACH DIRECTION SHALL BE PROVIDED ON ALAMEDA BOULEVARD. THE NORTHBOUND LANES ON WYOMING BOULEVARD SHALL REMAIN OPEN AT ALL TIMES FOR THE DURATION OF CONSTRUCTION ACTIVITIES.

SIGNAL AVENUE BETWEEN LOUISIANA AND WYOMING BOULEVARDS SHALL NOT BE USED AS A DETOUR, AND OAKLAND AVENUE SHALL NOT BE USED AS A DETOUR.

LEGEND

- WORK ZONE 3
- WORK ZONE 4
- WORK ZONE 5
- WORK ZONE 6

GENERAL TRAFFIC CONTROL CRITERIA:

1. ACCESS TO BUSINESSES WITHIN AND SURROUNDING THE LIMITS OF CONSTRUCTION SHALL BE MAINTAINED AT ALL TIMES. ACCESS SIGNS FOR AFFECTED BUSINESSES SHALL BE PROVIDED BY THE CONTRACTOR.
2. CONTRACTOR SHALL COORDINATE ANY TEMPORARY BUS STOP LOCATIONS WITH THE CITY OF ALBUQUERQUE TRANSIT DEPARTMENT.
3. THE TRAFFIC CONTROL PLAN SHALL MAINTAIN ACCESS TO BICYCLE AND PEDESTRIAN FACILITIES WITHIN THE CONSTRUCTION AREA AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE AN AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBLE PEDESTRIAN DETOUR AT ALL TIMES.
4. TEMPORARY PAVEMENT MAY BE REQUIRED AS PART OF THE APPROVED TRAFFIC CONTROL PLAN. TEMPORARY PAVEMENT SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARD DRAWING 2415B.
5. APPROVAL OF THE TRAFFIC CONTROL PLAN SHALL BE OBTAINED FROM THE CITY OF ALBUQUERQUE (COA) CONSTRUCTION DIVISION (505-924-3400) FOR ALL WORK ZONES AND THE NMDOT FOR WORK ZONE 1 TWO (2) DAYS PRIOR TO THE START OF CONSTRUCTION. THE NMDOT POINT OF CONTACT IS ANTONIO JARAMILLO, PE (505-841-2729).
6. CONTRACTOR MAY WORK EXTENDED HOURS FROM 7 A.M. TO 7 P.M. FOR THE DURATION OF THE PROJECT.
7. CONTRACTOR SHALL PROVIDE VARIABLE MESSAGE SIGNS AS REQUIRED IN THE TRAFFIC CONTROL PLAN.
8. CONSTRUCTION OF THE PROJECT WILL BE DIVIDED INTO SIX (6) WORK ZONES. CONSTRUCTION IN EACH WORK ZONE SHALL PROCEED SEQUENTIALLY AND IN NUMERICAL ORDER. CONSTRUCTION IN A SUBSEQUENT WORK ZONE SHALL NOT BEGIN UNTIL THE PREVIOUS WORK ZONE HAS REACHED SUBSTANTIAL COMPLETION AND IS OPEN TO TRAFFIC.
9. MEASUREMENT AND PAYMENT FOR ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL WILL BE MADE PER SUPPLEMENTAL TECHNICAL SPECIFICATION SECTION 1200 OF THE PROJECT MANUAL.

200' 100' 0 200' 400'

SCALE: 1" = 200'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
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Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2278
NEW MEXICO TEXAS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1254634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY SMITH ENGINEERING, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

FIELD VERIFICATION BY COA DATE 7-14

DRAWINGS REVISED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEERS SEAL

NO.	DATE	REMARKS / REVISIONS	BY
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

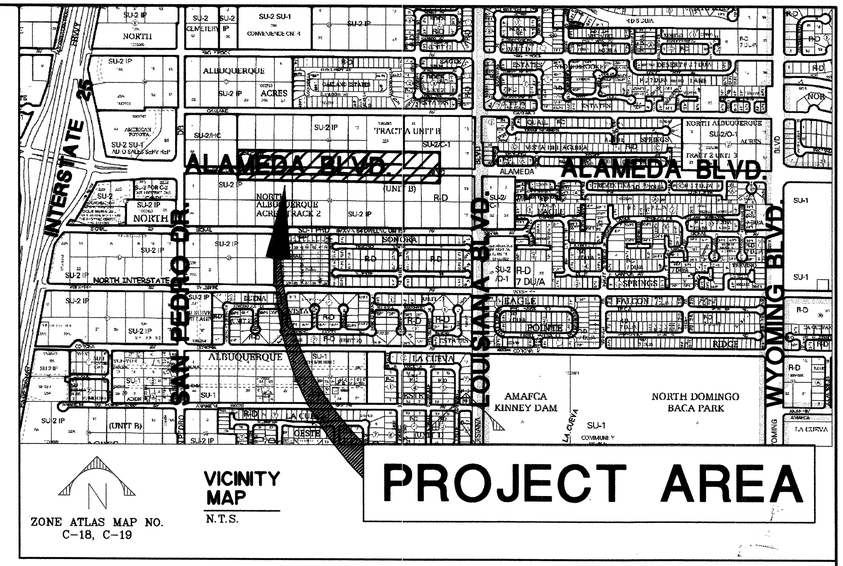
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

WORK ZONE MAP

Design Review Committee	City Engineer Approval	Last Design Update	Mo. / Day / Yr.	Mo. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	10-2	84	84



VICINITY MAP
N.T.S.

ZONE ATLAS MAP NO.
C-18, C-19

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

PLANS FOR CONSTRUCTION
ALAMEDA BLVD. WIDENING
ADDITIVE ALTERNATE 1

CITY OF ALBUQUERQUE PROJECT NO. 7663.91

CALL BEFORE YOU DIG!
STATEWIDE
1-800-321-ALERT
DATE
ALBUQUERQUE
260-1990

ENGINEERS STAMP & SIGNATURE

Douglas L. Andrews
DOUGLAS L. ANDREWS
NEW MEXICO
11771
REGISTERED PROFESSIONAL ENGINEER
01-08-13

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	1-1	1-AA1	11

Alameda Blvd. Widening–Additive Alternate 1

Sheet No.	Drawing No.	Sheet Title
GENERAL SHEETS		
1–AA1	1–1	TITLE SHEET & VICINITY MAP
2–AA1	1–2	INDEX OF SHEETS
REMOVAL SHEETS		
3–AA1	2–1	OVERALL REMOVAL PLAN
4–AA1	2–2	ALAMEDA REMOVAL SHEET – STA 7+00 TO STA 25+00
5–AA1	2–3	ALAMEDA REMOVAL SHEET – STA 25+00 TO STA 43+00
STORM DRAIN SHEETS		
6–AA1	4–1	OVERALL STORM DRAIN IMPROVEMENT PLAN
7–AA1	4–2	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 7+00 TO STA 16+00
8–AA1	4–3	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 16+00 TO STA 25+00
9–AA1	4–4	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 25+00 TO STA 34+00
10–AA1	4–5	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 34+00 TO STA 42+50
11–AA1	4–6	LATERALS

LEGEND

- EXISTING STORM MANHOLE
- EXISTING COMMUNICATION MANHOLE
- EXISTING COMMUNICATION RISER
- EXISTING CATV RISER
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING PRESSURE INDICATOR POST
- EXISTING SANITARY MANHOLE
- EXISTING POWER POLE
- EXISTING ELECTRIC BOX
- EXISTING PULL BOX
- EXISTING LIGHT
- EXISTING CAMERA
- EXISTING SIGN
- EXISTING MAILBOX
- EXISTING TREE
- EXISTING SHRUB
- EXISTING YUCCA
- 91.8 EXISTING SPOT ELEVATION
- EXISTING TRAFFIC SIGNAL
- EXISTING FENCE
- EXISTING BLOCK WALL
- ~~5100~~ EXISTING CONTOUR (INDEX)
- EXISTING CHAIN LINK FENCE
- EXISTING STRUCTURE OUTLINE
- ~~ROW~~ EXISTING RIGHT OF WAY LINE
- ~~PL~~ EXISTING PROPERTY LINE
- ~~TCE~~ TEMPORARY CONSTRUCTION EASEMENT
- CONSTRUCTION CENTER LINE
- NEW STORM DRAIN DROP INLET
- NEW DBL YELLOW STRIPE PAVEMENT MARKING
- STANDARD WHITE STOP BAR PAVEMENT MARKING

LEGEND (CONTINUED)

- NEW OR RELOCATED TRAFFIC SIGN
- NEW BIKE LANE PAVEMENT MARKING
- NEW CONCRETE CURB AND GUTTER
- NEW CONCRETE
- NEW PATTERNED MEDIAN CONCRETE
- EXTENT OF NEW ASPHALT
- NEW STORM DRAIN MANHOLE
- NEW REINFORCED CONCRETE PIPE (RCP)
- WATERLINE RELOCATION

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334981 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid

NGS Control Station "10–C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7–14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7–14
FIELD VERIFICATION BY	COA	DATE 7–14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7–14
MICRO–FILM INFORMATION		
RECORDED BY		DATE
NO.		

ENGINEER'S SEAL

DOUGLAS L. ANDREWS, NEW MEXICO, 9771, REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE	12–2012
DRAWN BY	SEC	DATE	12–2012
CHECKED BY	DLA	DATE	12–2012

SEC JOB # 110203

SMITH ENGINEERING Consultants — NEW MEXICO — TEXAS

SOLUTIONS FOR TODAY... VISION FOR TOMORROW

2301 San Pedro Dr. NE, Building 4, Suite 200, Albuquerque, NM 87110, Phone: (505) 884-0700, Fax: (505) 884-2376

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 1

INDEX OF SHEETS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	1-2	2-AA1	11

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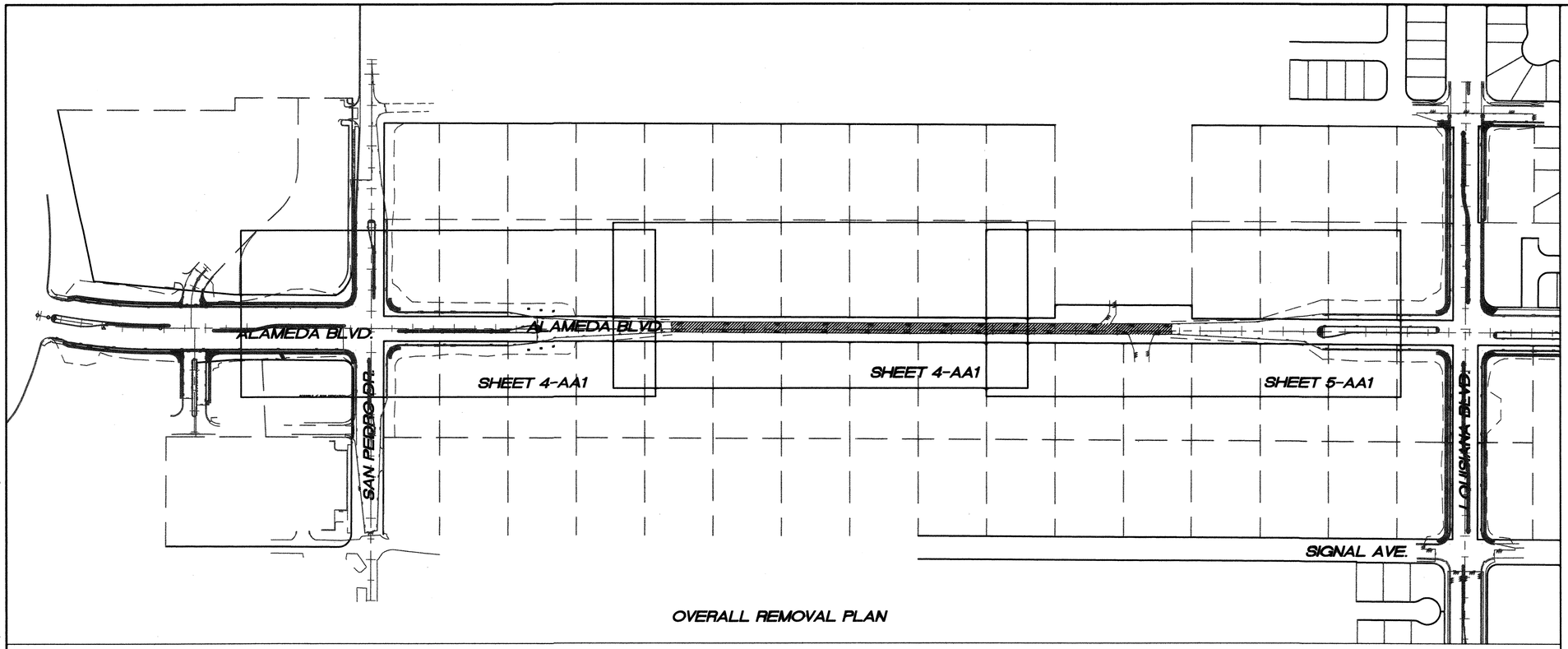
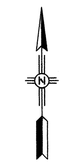


OVERALL REMOVAL PLAN



150' 75' 0 150' 300'

SCALE: 1" = 150'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376
NEW MEXICO TEXAS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

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AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

FIELD VERIFICATION BY COA DATE 7-14

DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012

DRAWN BY SEC DATE 12-2012

CHECKED BY DLA DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 1

OVERALL REMOVAL PLAN

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

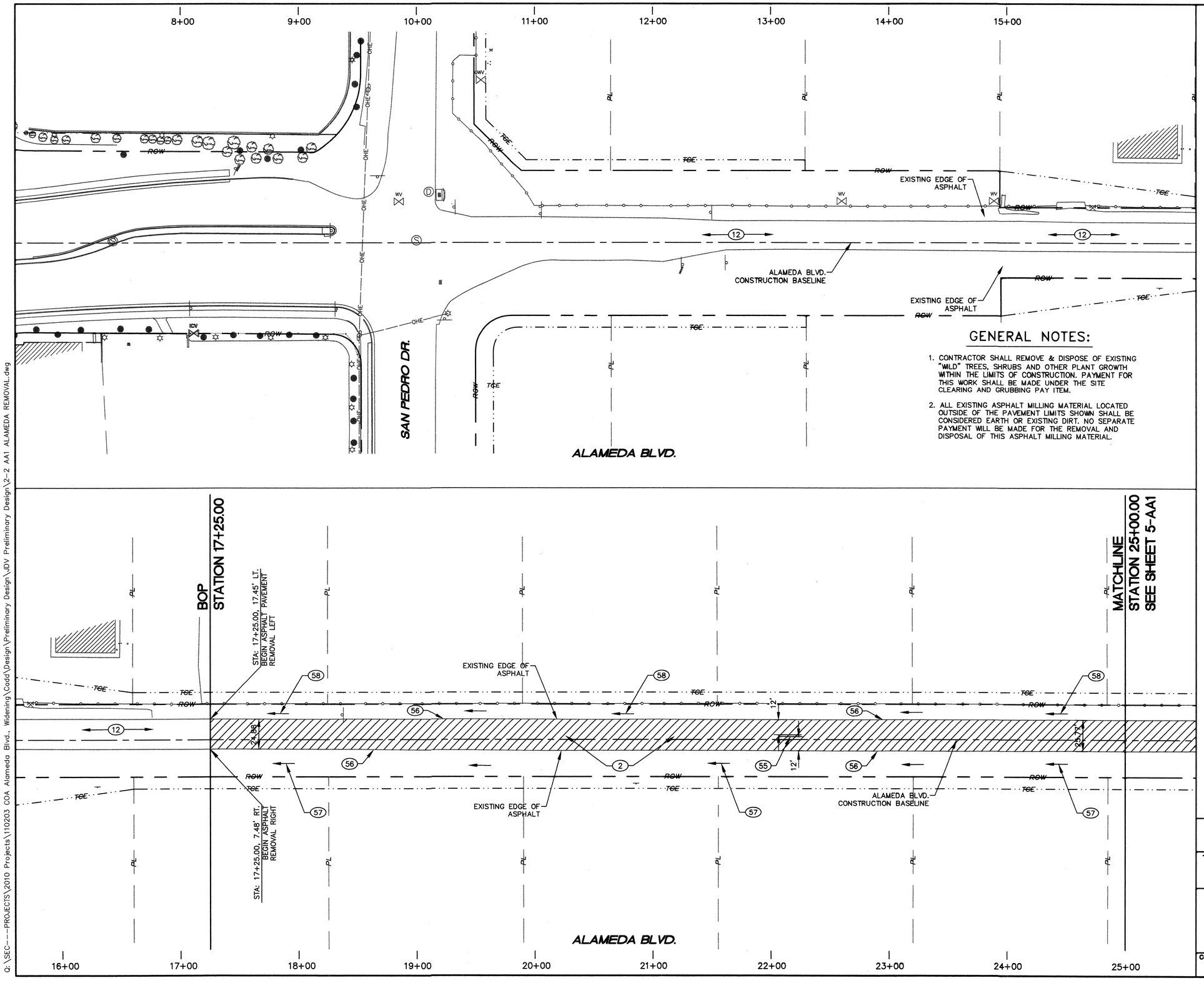
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-1	3-AA1	11

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-1 AA1 OVERALL REMOVAL.dwg



KEYED NOTES:

(2) REMOVE & DISPOSE EXISTING ASPHALT PAVEMENT FOR STORM DRAIN INSTALLATION. REPLACE ASPHALT PAVEMENT TO MATCH EXISTING LINE & GRADE PER THE TEMPORARY ASPHALT PAVEMENT SECTION (SHEET 31, BASE BID).

(12) SEE BASE BID DRAWINGS FOR REMOVAL AND DISPOSAL INFORMATION.

(55) INSTALL 4" DOUBLE YELLOW SOLID STRIPE AT CENTERLINE OF ROAD AFTER ASPHALT PAVEMENT HAS BEEN PLACED.

(56) INSTALL 6" SINGLE WHITE SOLID STRIPE AT EDGE OF ROAD (MAINTAINING 12' DRIVING LANES) AFTER ASPHALT PAVEMENT HAS BEEN PLACED.

(57) REPLACE EXISTING SIDE DITCH TO MATCH EXISTING. ARMOR SIDE DITCH WITH ASPHALT. SEE SECTION ON SHEET 5-AA1.

(58) REPLACE EXISTING SIDE DITCH TO MATCH EXISTING. NO ARMOR REQUIRED NORTH SIDE OF ALAMEDA.

GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

LEGEND

ASPHALT REMOVAL

40' 20' 0 40' 80'
SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0760
Fax: (505) 884-2376
NEW MEXICO TEXAS

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE	COA DATE 7-14
FIELD VERIFICATION BY	COA DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

ENGINEERS SEAL

DOUGLAS L. ANDREWS NEW MEXICO 9271 REGISTERED PROFESSIONAL ENGINEER
01-28-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE	12-2012
DRAWN BY	SEC	DATE	12-2012
CHECKED BY	DLA	DATE	12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

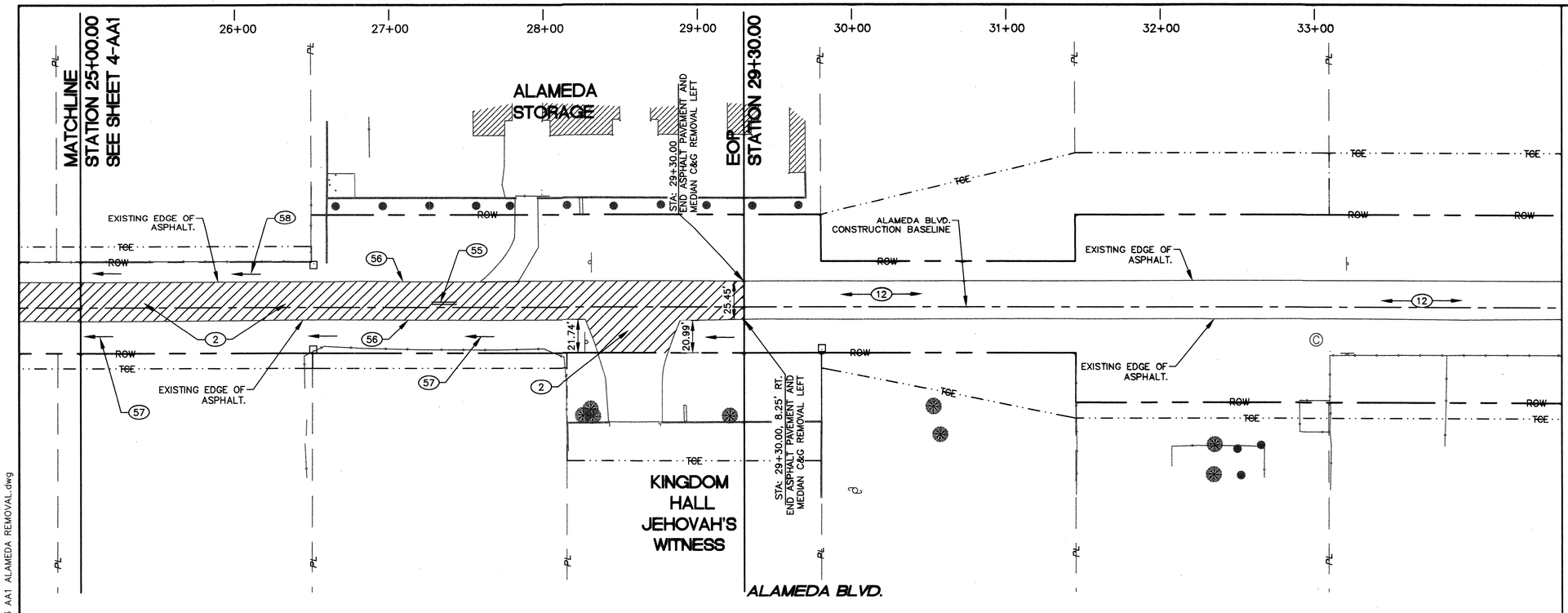
TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 1

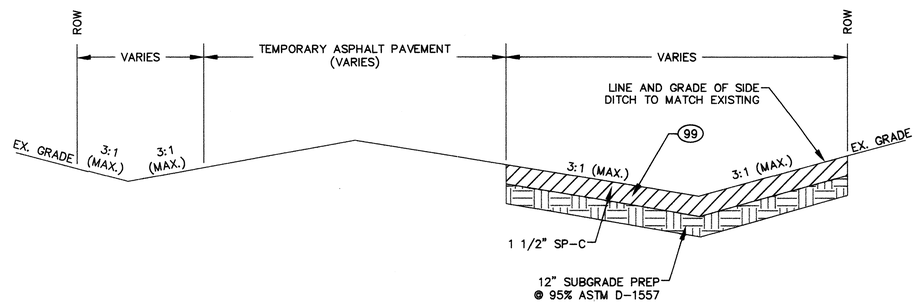
ALAMEDA REMOVAL SHEET - STA 7+00 TO STA 25+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update: No. / Day / Yr. | No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-2	4-AA1	11

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd. Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-2 AA1 ALAMEDA REMOVAL.dwg





SIDE DITCH ASPHALT PAVEMENT SECTION DETAIL

NOT TO SCALE

GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

⬭ KEYED NOTES:

(2) REMOVE & DISPOSE EXISTING ASPHALT PAVEMENT FOR STORM DRAIN INSTALLATION. REPLACE ASPHALT PAVEMENT TO MATCH EXISTING LINE & GRADE PER THE TEMPORARY ASPHALT PAVEMENT SECTION (SHEET 31, BASE BID).

(12) SEE BASE BID DRAWINGS FOR REMOVAL AND DISPOSAL INFORMATION.

(55) INSTALL 4" DOUBLE YELLOW SOLID STRIPE AT CENTERLINE OF ROAD AFTER ASPHALT PAVEMENT HAS BEEN PLACED.

(56) INSTALL 6" SINGLE WHITE SOLID STRIPE AT EDGE OF ROAD (MAINTAINING 12' DRIVING LANES) AFTER ASPHALT PAVEMENT HAS BEEN PLACED.

(57) REPLACE EXISTING SIDE DITCH TO MATCH EXISTING. ARMOR SIDE DITCH WITH ASPHALT. SEE SECTION ON THIS SHEET.

(58) REPLACE EXISTING SIDE DITCH TO MATCH EXISTING. NO ARMOR REQUIRED NORTH SIDE OF ALAMEDA.

LEGEND

ASPHALT REMOVAL

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING Company
NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2078
TEXAS

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWING CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid

Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEERS SEAL

DONALD L. ANDREWS NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 17177

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012

DRAWN BY SEC DATE 12-2012

CHECKED BY DLA DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 1

ALAMEDA REMOVAL SHEET - STA 25+00 TO STA 43+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

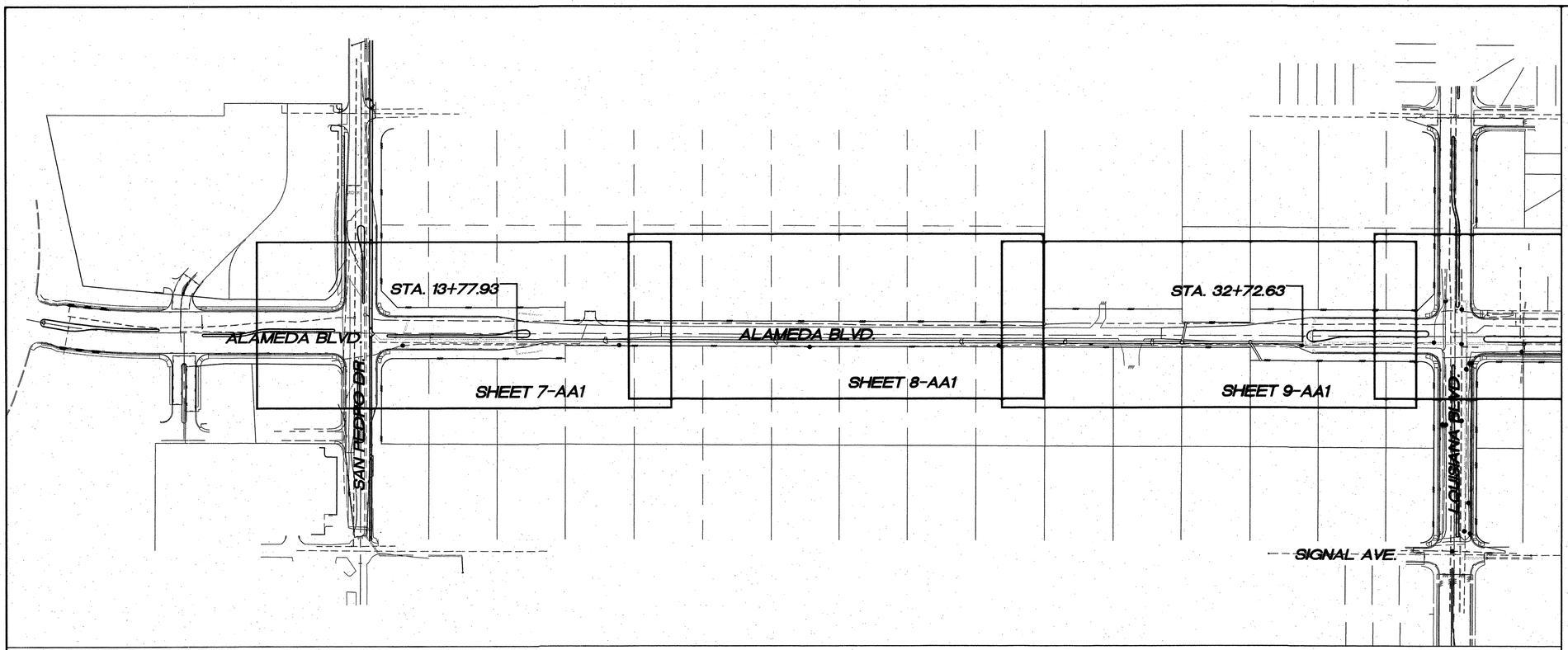
Last Design Update

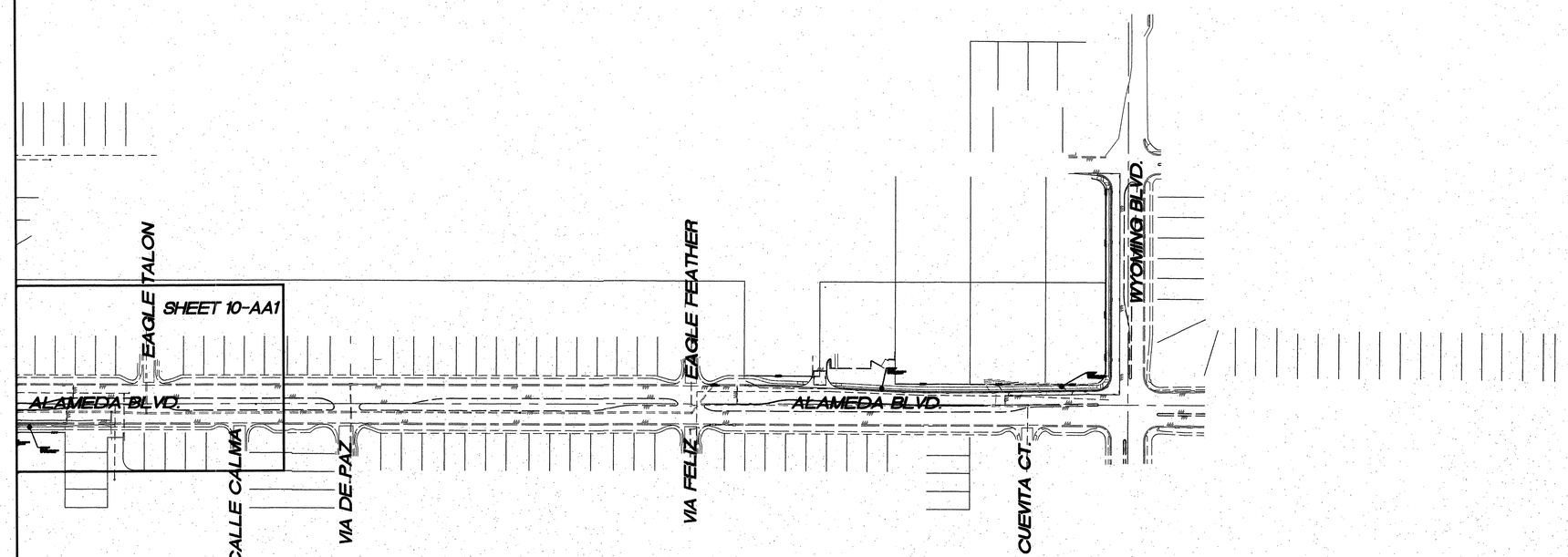
No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-3	5-AA1	11

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-3 AA1 ALAMEDA REMOVAL.dwg

RECORD DRAWINGS





SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

BENCH MARKS

Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates - Central Zone,
NAD 83 and were derived by scaling State
Plane grid coordinates by the project average
combined factor of CF = 1.000334961 around
an origin of 0.0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "10-C18,
1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWING(S) CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEERS SEAL
DAVID B. THOMPSON
NEW MEXICO
9677
LICENSED PROFESSIONAL ENGINEER
1-4-13

150' 75' 0 150' 300'
SCALE: 1" = 150'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		DBT	DATE 12-2012
DRAWN BY		DEM	DATE 12-2012
CHECKED BY		DBT	DATE 12-2012

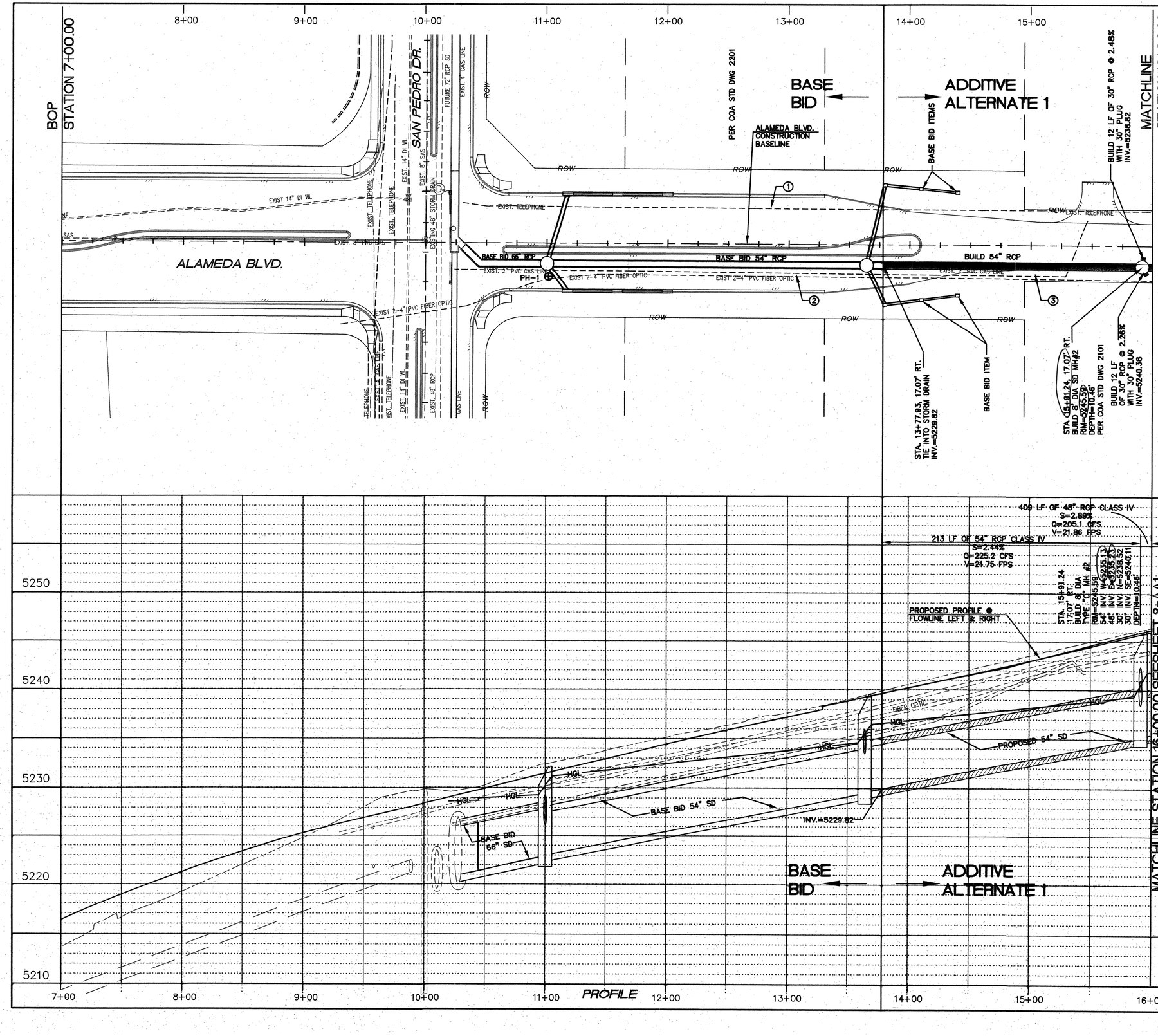
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
OVERALL STORM DRAIN IMPROVEMENT PLAN

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update: Mo. / Day / Yr.
Mo. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-1	6-AA1	11

RECORD DRAWINGS



KEYED NOTES:

1. EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.
2. EXISTING 2-4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.
3. EXISTING 2" PVC GAS LINE TO BE RELOCATED BY GAS CO. OF N.M.

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-1	5230.33	FIBER OPT.	PVC	2-4"

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:
HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.

SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY SMITH DATE 7-14
DRAWINGS CORRECTED BY ENGINEERING CO. DATE 7-14
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface).
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES BY DATE
NO. 11599 SURVEYING CONTROL INC. 11-2010

NO.	DATE	REMARKS
		REVISIONS

DESIGNED BY DBT DATE 12-2012
DRAWN BY DEM DATE 12-2012
CHECKED BY DBT DATE 12-2012

ENGINEERS SEAL
DANIEL BRENT THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER
1-4-13

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

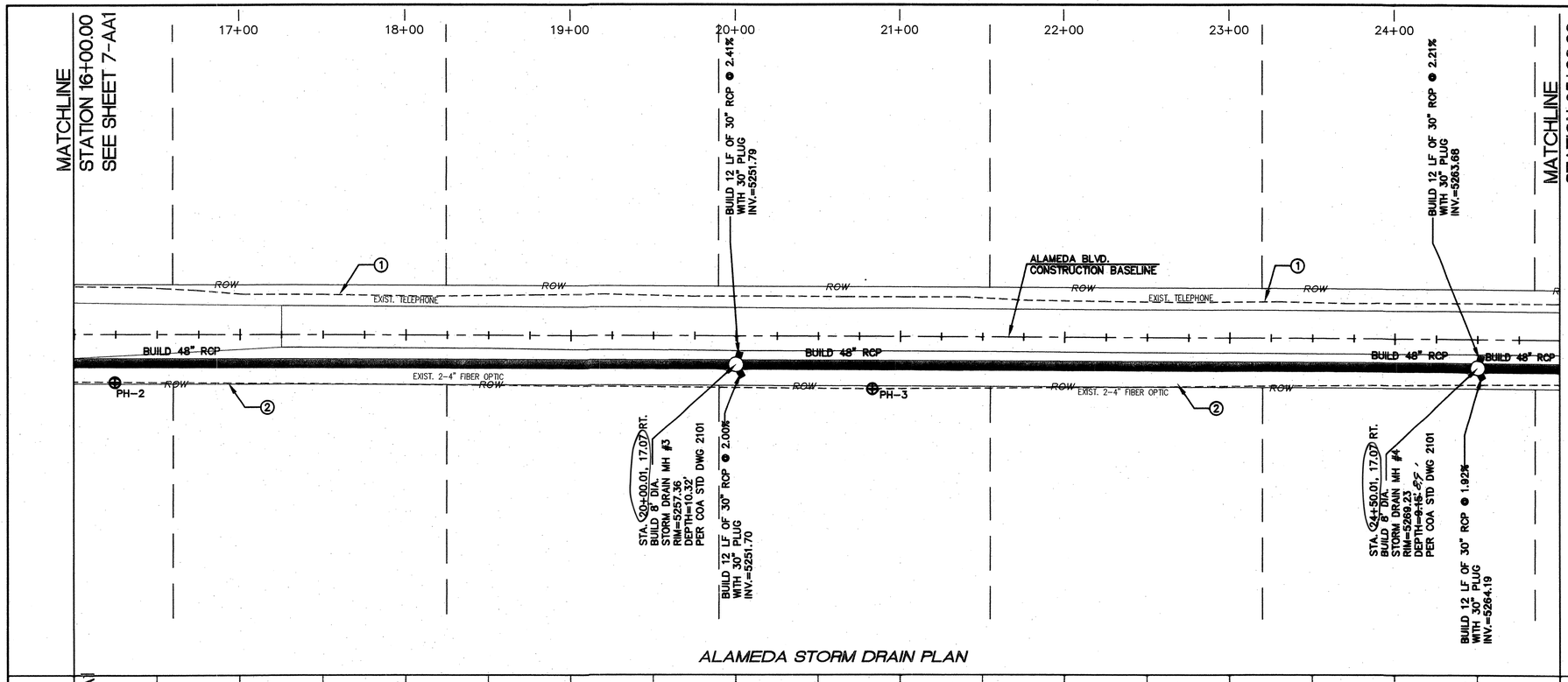
TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 7+00.00 TO STA. 16+00

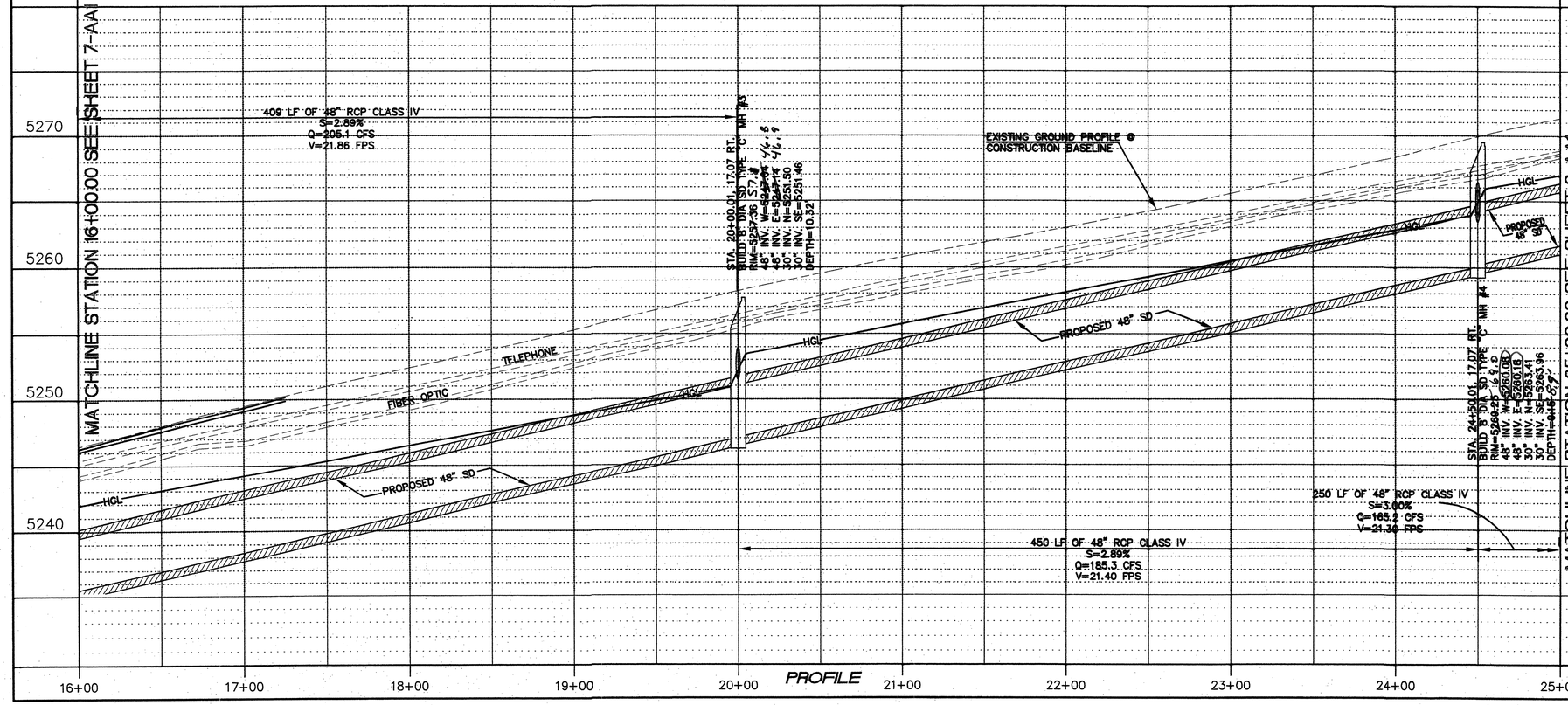
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update
No. / Day / Yr. | No. / Day / Yr.

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Sequence No. 4-2 | Sheet 7-AA1 Of 11

RECORD DRAWINGS



ALAMEDA STORM DRAIN PLAN



PROFILE

KEYED NOTES:

① EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.

② EXISTING 2-4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-2	5245.79	FIBER OPT	PVC	2-4"
PH-3	5258.36	FIBER OPT	PVC	2-4"

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:
HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.

SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTED BY COA DATE 7-14
FIELD DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.
1965' (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of O.O. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1965' (published elevation = 5222.090').

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

ENGINEERS SEAL
DANIEL BRIAN THOMPSON NEW MEXICO 9677 REGISTERED PROFESSIONAL ENGINEER
12-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DBT	DATE	12-2012
DRAWN BY	DEM	DATE	12-2012
CHECKED BY	DBT	DATE	12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 16+00 TO STA. 25+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update: Mo. / Day / Yr.
Last Construction Update: Mo. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-3	8-AA1	11

RECORD DRAWINGS

MATCHLINE STATION 25+00 SEE SHEET 8-AA1

26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00

BUILD 12 LF OF 24" RCP @ 2.56% WITH 24" PLUG INV.=5271.65

BUILD 12 LF OF 30" RCP @ 2.00% WITH 30" PLUG INV.=5277.68

STA. 29+89.73, 30.00' LT. INSTALL: (1)-30" SD PLUG 30" INV.=5278.58

BUILD 48 LF OF 30" RCP @ 2.0%

ADDITIVE ALTERNATE

BASE BID

MATCHLINE STATION 34+00 SEE SHEET 10-AA1

ROW

EXIST. TELEPHONE

ALAMEDA BLVD. CONSTRUCTION BASELINE

EXIST. TELEPHONE

BUILD 48" RCP

EXIST. 2-4" FIBER OPTIC

PH-4

BUILD 48" RCP

PH-5

BUILD 42" RCP

BUILD 42" RCP

BUILD 42" RCP

PH-6

BASE BID 42" RCP

EXIST. 2-4" FIBER OPTIC
EXIST. TELEPHONE

STA. 27+00.00, 17.07' RT. BUILD 8' DIA. STORM DRAIN MH #5 RIM=5276.96 24.7' 48" INV. W=5267.89 48" INV. E=5267.79 24" INV. N=5271.34 DEPTH=9.17' 24.5' PER COA STD DWG 2101

STA. 28+08.00, 17.07' RT. BUILD 8' DIA. STORM DRAIN MH #6 RIM=5282.66 23.5' 48" INV. W=5273.23 48" INV. E=5273.52 30" INV. N=5277.44 DEPTH=8.42' 23.2' PER COA STD DWG 2101

BUILD 12 LF OF 30" RCP @ 2.00% WITH 30" PLUG INV.=5277.58

STA. 29+79.97, 17.07' RT. BUILD 8' DIA. STORM DRAIN MH #7 RIM=5284.75 22.7' 42" INV. W=5275.87 42" INV. E=5275.87 30" INV. N=5277.82 DEPTH=8.88' PER COA STD DWG 2101

BUILD 52 LF OF 30" RCP @ 2.00%

STA. 31+44.76, 17.07' RT. BUILD 8' DIA. STORM DRAIN MH #8 RIM=5280.09 DEPTH=10.04' PER COA STD DWG 2101

STA. 31+70.70, 62.00' RT. INSTALL: (1)-30" SD PLUG INV.=5283.79

STA. 32+72.63, 17.07' RT. TIE INTO STORM DRAIN INV.=5283.21

ALAMEDA STORM DRAIN PLAN

MATCHLINE STATION 25+00 SEE SHEET 8-AA1

MATCHLINE STATION 34+00 SEE SHEET 10-AA1

5290 5280 5270 5260

250 LF OF 48" RCP CLASS IV S=3.00% Q=165.2 CFS V=21.30 FPS

208 LF OF 48" RCP CLASS IV S=2.62% Q=159.9 CFS V=20.21 FPS

EXISTING GROUND PROFILE ● CONSTRUCTION BASELINE

PROPOSED PROFILE ● FLOWLINE LEFT & RIGHT

TELEPHONE

FIBER OPTIC

HGL

PROPOSED 48" SD

PROPOSED 42" SD

BASE BID 42" SD

INV.=5283.21

STA. 27+00.00, 17.07' RT. BUILD 8' DIA. SD. TYPE "C" MH #5 RIM=5276.96 24.7' 48" INV. W=5267.89 47.2 48" INV. E=5267.79 47.3 24" INV. N=5271.34 DEPTH=9.17' 9.5'

STA. 28+08.00, 17.07' RT. BUILD 8' DIA. SD. TYPE "C" MH #6 RIM=5282.66 23.5' 48" INV. W=5273.23 48" INV. E=5273.52 30" INV. N=5277.44 DEPTH=8.42' 9.2'

STA. 29+79.97, 17.07' RT. BUILD 8' DIA. SD. TYPE "C" MH #7 RIM=5284.75 22.7' 42" INV. W=5275.87 42" INV. E=5275.87 30" INV. N=5277.82 DEPTH=8.88'

STA. 31+44.76, 17.07' RT. BUILD 8' DIA. SD. TYPE "C" MH #8 RIM=5280.09 42" INV. W=5270.05 42" INV. E=5270.15 30" INV. SE=5282.75 DEPTH=10.04'

72 LF OF 42" RCP CLASS IV S=3.27% Q=153.3 CFS V=15.94 FPS

165 LF OF 42" RCP CLASS IV S=2.48% Q=142.9 CFS V=14.86 FPS

128 LF OF 42" RCP CLASS IV S=2.31% Q=135.7 CFS V=14.11 FPS

PROFILE

25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00 34+00

KEYED NOTES:

① EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.

② EXISTING 2--4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.

③ EXISTING TELEPHONE LINE TO BE RELOCATED BY CENTURYLINK.

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-4	5269.52	FIBER OPT	PVC	2--4"
PH-5	5276.51	FIBER OPT	PVC	2--4"
PH-6	5291.91	FIBER OPT	PVC	2--4"

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:
HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.

N

SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTORS ACCEPTANCE BY	COA DATE 7-14
FIELD VERIFICATION BY	COA DATE 7-14
AS-BUILTED CORRECTED BY	SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

ENGINEERS SEAL

DAVID B. THOMPSON NEW MEXICO 9677 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DBT DATE 12-2012
DRAWN BY DEM DATE 12-2012
CHECKED BY DBT DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 25+00 TO STA. 34+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

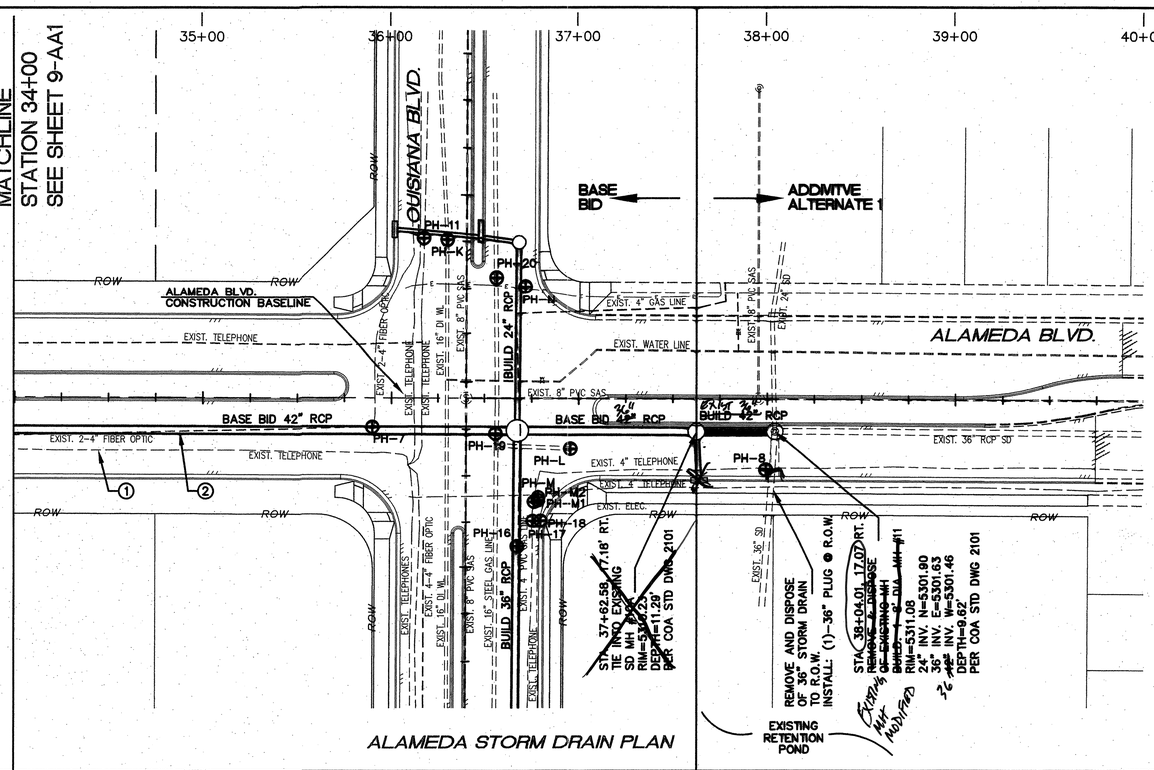
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

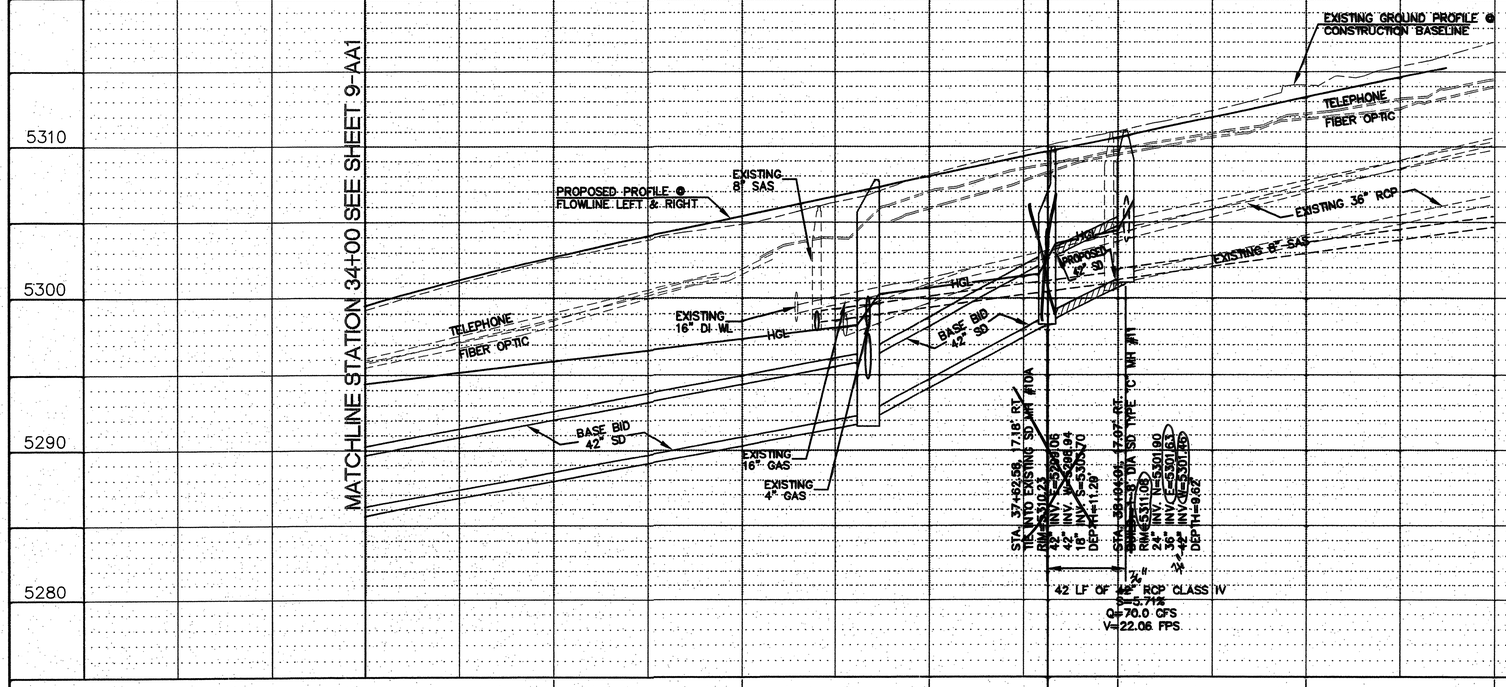
No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Sequence No. 4-4 | Sheet 9-AA1 Of 11

RECORD DRAWINGS



ALAMEDA STORM DRAIN PLAN



PROFILE

KEYED NOTES:

① EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.

② EXISTING 2-4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-7	5301.36	FIBER OPT	PVC	2-4"
PH-8	5308.79	TELEPHONE	PVC	4"
PH-11	5302.64	TELEPHONE	PVC	3-3"
PH-16	5303.11	GAS	PVC	4"
PH-17	5304.56	TELEPHONE	PVC	0.20'
PH-18	5304.71	TELEPHONE	PVC	0.10'
PH-19	5222.35±	GAS	PVC	4"
PH-20	5298.19	GAS	STEEL	16"
PH-E	5311.23	GAS	PE	0.18'
PH-K	5302.12	WATER	IRON	16"
PH-L	5301.20	GAS	STEEL	14"
PH-M	5308.96	ELECTRIC	PVC	4"
PH-M1	5304.48	TELEPHONE	CABLE	0.18'
PH-M2	5305.21	GAS	PE	0.18'
PH-N	5302.55	ELECTRIC	(2) CABLES	0.18'

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:
HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.

SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION

	CONTRACTOR		
WORK STARTED BY	RMCI, INC.		DATE 7-14
INSPECTOR'S INITIALS BY	CARTESIAN SURVEYS, INC.		DATE 7-14
FIELD VERIFICATION BY	COA		DATE 7-14
MARKINGS CORRECTED BY	SMITH ENGINEERING CO.		DATE 7-14

BENCH MARKS
Coordinates shown hereon are modified (surface).
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000034961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

ENGINEERS SEAL
NEW MEXICO DAVID B. THOMPSON 9677 LICENSED PROFESSIONAL ENGINEER
1-14-13

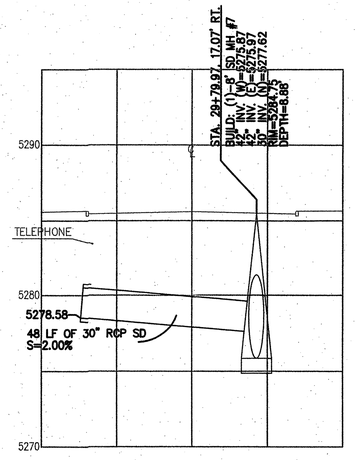
NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DBT	DATE	12-2012
DRAWN BY	DEM	DATE	12-2012
CHECKED BY	DBT	DATE	12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

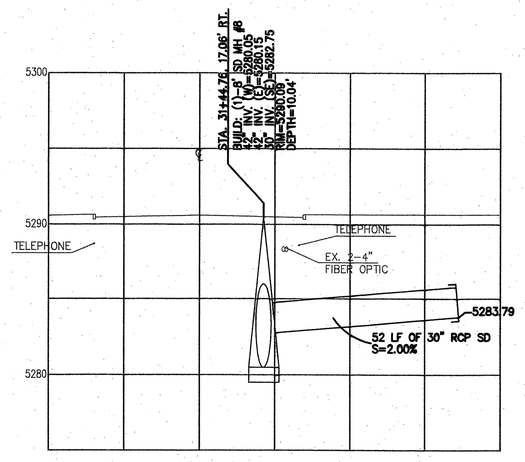
TITLE: ALAMEDA BLVD. WIDENING
ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 34+00 TO STA. 40+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update
No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-5	10-AA1	11



ALAMEDA STORM DRAIN LATERAL
STA. 29+79.97, 17.07' RT.



ALAMEDA STORM DRAIN LATERAL
STA. 31+44.76, 17.06' RT.

NOTE:
ALL LATERAL STORM DRAINS ARE CLASS IV.

* See plan and profile for as-built info

SCALE: 1" = 20'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE
11599	SURVENG CONTROL INC.	11-2010

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 ground an origin of 0,0. Elevations are NAD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.090'). The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7–14
INSPECTOR'S ACCEPTANCE BY COA DATE 7–14
FIELD VERIFICATION BY COA DATE 7–14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7–14
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEERS SEAL
DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER
1-4-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		DBT	DATE 12–2012
DRAWN BY		DEM	DATE 12–2012
CHECKED BY		DBT	DATE 12–2012

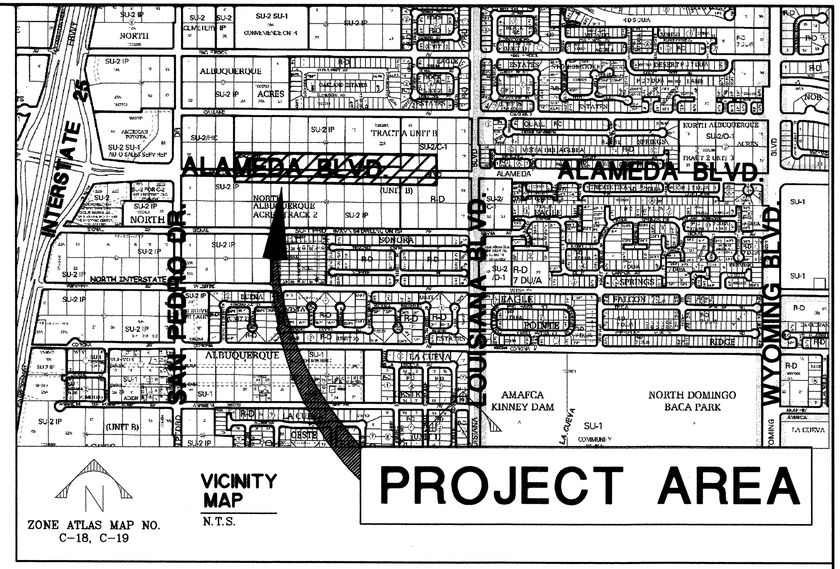
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
LATERALS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-6	11-AA1	11



N

ZONE ATLAS MAP NO.
C-18, C-19

VICINITY
MAP
N.T.S.

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

PLANS FOR CONSTRUCTION
ALAMEDA BLVD. WIDENING
ADDITIVE ALTERNATE 2

CITY OF ALBUQUERQUE PROJECT NO. 7663.91

CALL BEFORE
YOU DIG!
STATEWIDE
1-800-321-ALERT
DATE
ALBUQUERQUE
260-1990

ENGINEERS STAMP & SIGNATURE

DOUGLAS L. ANDREWS
NEW MEXICO
1971
REGISTERED PROFESSIONAL ENGINEER

01-08-13

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	1-1	1-AA2	25

Alameda Blvd. Widening–Additive Alternate 2

Sheet No.	Drawing No.	Sheet Title
GENERAL SHEETS		
1–AA2	1–1	TITLE SHEET & VICINITY MAP
2–AA2	1–2	INDEX OF SHEETS
REMOVAL SHEETS		
3–AA2	2–1	OVERALL REMOVAL PLAN
4–AA2	2–2	ALAMEDA REMOVAL SHEET – STA 7+00 TO STA 25+00
5–AA2	2–3	ALAMEDA REMOVAL SHEET – STA 25+00 TO STA 43+00
ROADWAY SHEETS		
6–AA2	3–1	OVERALL ROADWAY IMPROVEMENT PLAN
7–AA2	3–2	ALAMEDA ROADWAY PLAN & PROFILE STA 7+00 TO STA 16+00
8–AA2	3–3	ALAMEDA ROADWAY PLAN & PROFILE STA 16+00 TO STA 25+00
9–AA2	3–4	ALAMEDA ROADWAY PLAN & PROFILE STA 25+00 TO STA 34+00
10–AA2	3–5	TYPICAL SECTIONS & PAVING DETAILS
11–AA2	3–6	PRIVATE DRIVEWAY DETAILS
12–AA2	3–7	PRIVATE DRIVEWAY DETAILS
STORM DRAIN SHEETS		
13–AA2	4–1	OVERALL STORM DRAIN IMPROVEMENT PLAN
14–AA2	4–2	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 7+00 TO STA 16+00
15–AA2	4–3	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 16+00 TO STA 25+00
16–AA2	4–4	ALAMEDA STORM DRAIN PLAN AND PROFILE STA 25+00 TO STA 34+00
17–AA2	4–5	LATERALS
TRAFFIC SHEETS		
18–AA2	7–1	TRAFFIC SIGNAL QUANTITIES
19–AA2	7–2	ALAMEDA CORRIDOR COMMUNICATIONS LAYOUT
20–AA2	7–3	ALAMEDA COMMUNICATION SYSTEM – CONDUIT AND CONDUCTOR RUNS
21–AA2	7–4	ALAMEDA COMMUNICATIONS SYSTEM– SPLICE DETAILS 1
22–AA2	7–5	ALAMEDA COMMUNICATIONS SYSTEM– SPLICE DETAILS 2
SIGNING–STRIPING SHEETS		
23–AA2	8–1	OVERALL SIGNING & STRIPING PLAN
24–AA2	8–2	ALAMEDA SIGNING & STRIPING – STA 7+00 TO STA 25+00
25–AA2	8–3	ALAMEDA SIGNING & STRIPING – STA 25+00 TO STA 43+00

LEGEND

- EXISTING STORM MANHOLE
- EXISTING COMMUNICATION MANHOLE
- EXISTING COMMUNICATION RISER
- EXISTING CATV RISER
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING PRESSURE INDICATOR POST
- EXISTING SANITARY MANHOLE
- EXISTING POWER POLE
- EXISTING ELECTRIC BOX
- EXISTING PULL BOX
- EXISTING LIGHT
- EXISTING CAMERA
- EXISTING SIGN
- EXISTING MAILBOX
- EXISTING TREE
- EXISTING SHRUB
- EXISTING YUCCA
- 91.8 EXISTING SPOT ELEVATION
- EXISTING TRAFFIC SIGNAL
- EXISTING FENCE
- EXISTING BLOCK WALL
- ~~5106~~ EXISTING CONTOUR (INDEX)
- EXISTING CHAIN LINK FENCE
- EXISTING STRUCTURE OUTLINE
- ~~ROW~~ EXISTING RIGHT OF WAY LINE
- ~~PL~~ EXISTING PROPERTY LINE
- ~~TCE~~ TEMPORARY CONSTRUCTION EASEMENT
- CONSTRUCTION CENTER LINE
- NEW STORM DRAIN DROP INLET
- NEW DBL YELLOW STRIPE PAVEMENT MARKING
- STANDARD WHITE STOP BAR PAVEMENT MARKING

LEGEND (CONTINUED)

- NEW OR RELOCATED TRAFFIC SIGN
- NEW BIKE LANE PAVEMENT MARKING
- NEW CONCRETE CURB AND GUTTER
- NEW CONCRETE
- NEW PATTERNED MEDIAN CONCRETE
- EXTENT OF NEW ASPHALT
- NEW STORM DRAIN MANHOLE
- NEW REINFORCED CONCRETE PIPE (RCP)
- WATERLINE RELOCATION

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96 The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7–14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7–14
FIELD VERIFICATION BY	COA	DATE 7–14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7–14
MICRO–FILM INFORMATION		
RECORDED BY		DATE
NO.		

ENGINEERS SEAL

DOUGLAS L. ANDREWS, NEW MEXICO, 9271, REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE 12–2012	
DRAWN BY	SEC	DATE 12–2012	
CHECKED BY	DLA	DATE 12–2012	

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-3376
NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

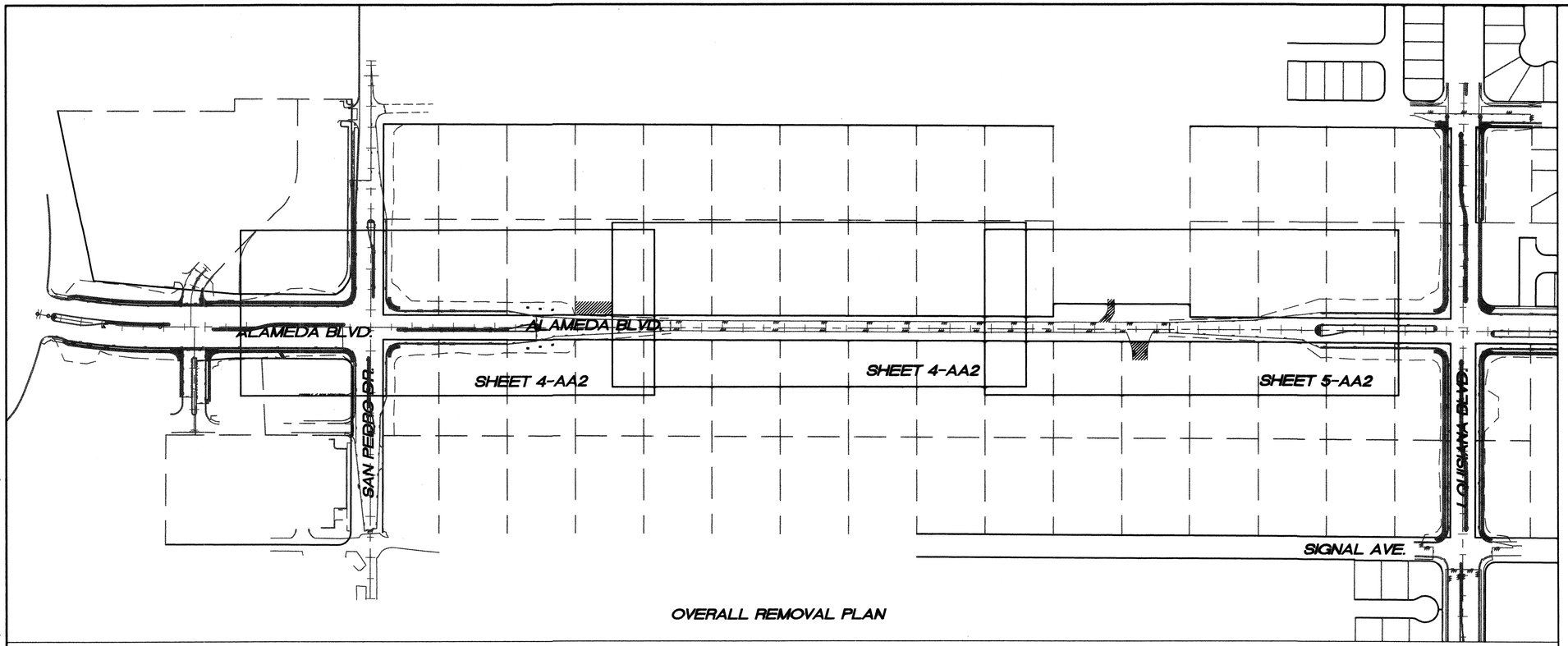
TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

INDEX OF SHEETS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

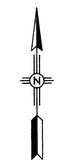
City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	1-2	2-AA2	25

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\1-2 AA2 INDEX OF SHEETS.dwg



OVERALL REMOVAL PLAN

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-1 AA2 OVERALL REMOVAL.dwg



150' 75' 0 150' 300'

SCALE: 1" = 150'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376
NEW MEXICO TEXAS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

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The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWING CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL

DOUGLAS J. ANDREWS NEW MEXICO 17171 REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY DLA DATE 12-2012

DRAWN BY SEC DATE 12-2012

CHECKED BY DLA DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: **ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2**

OVERALL REMOVAL PLAN

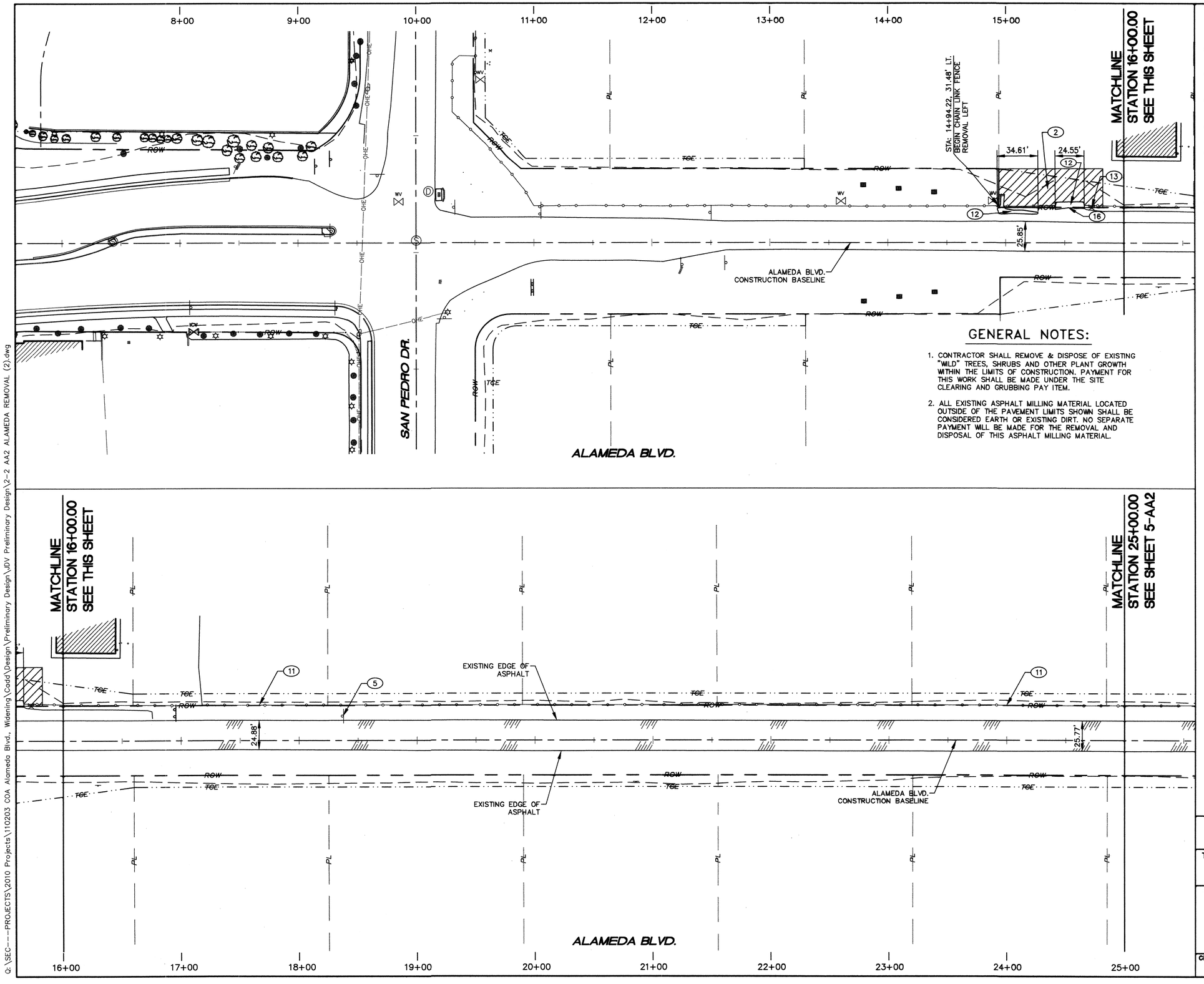
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-1	3-AA2	25



KEYED NOTES:

(2) REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.

(5) REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN.

(11) REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE.

(12) REMOVE AND DISPOSE OF EXISTING CONCRETE PAVEMENT.

(13) REMOVE, STORE AND REINSTALL EXISTING MAILBOX. CONTRACTOR SHALL PROVIDE TEMPORARY MAILBOX FOR IMPACTED PROPERTY OWNERS DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH USPS.

(16) REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE GATE.

GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE & DISPOSE OF EXISTING "WILD" TREES, SHRUBS AND OTHER PLANT GROWTH WITHIN THE LIMITS OF CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE SITE CLEARING AND GRUBBING PAY ITEM.
2. ALL EXISTING ASPHALT MILLING MATERIAL LOCATED OUTSIDE OF THE PAVEMENT LIMITS SHOWN SHALL BE CONSIDERED EARTH OR EXISTING DIRT. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL AND DISPOSAL OF THIS ASPHALT MILLING MATERIAL.

LEGEND

ASPHALT REMOVAL

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING CONSULTANT
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-4700
Fax: (505) 884-2376
NEW MEXICO TEXAS

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.00033496! around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
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The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
AS-BUILTS SUBMITTED & CORRECTED BY ENGINEERING CO.		DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEERS SEAL
DOUGLAS L. ANDREWS
NEW MEXICO
9771
REGISTERED PROFESSIONAL ENGINEER
01-28-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 12-2012
			DESIGNED BY DLA
			DRAWN BY SEC
			DATE 12-2012
			CHECKED BY DLA
			DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

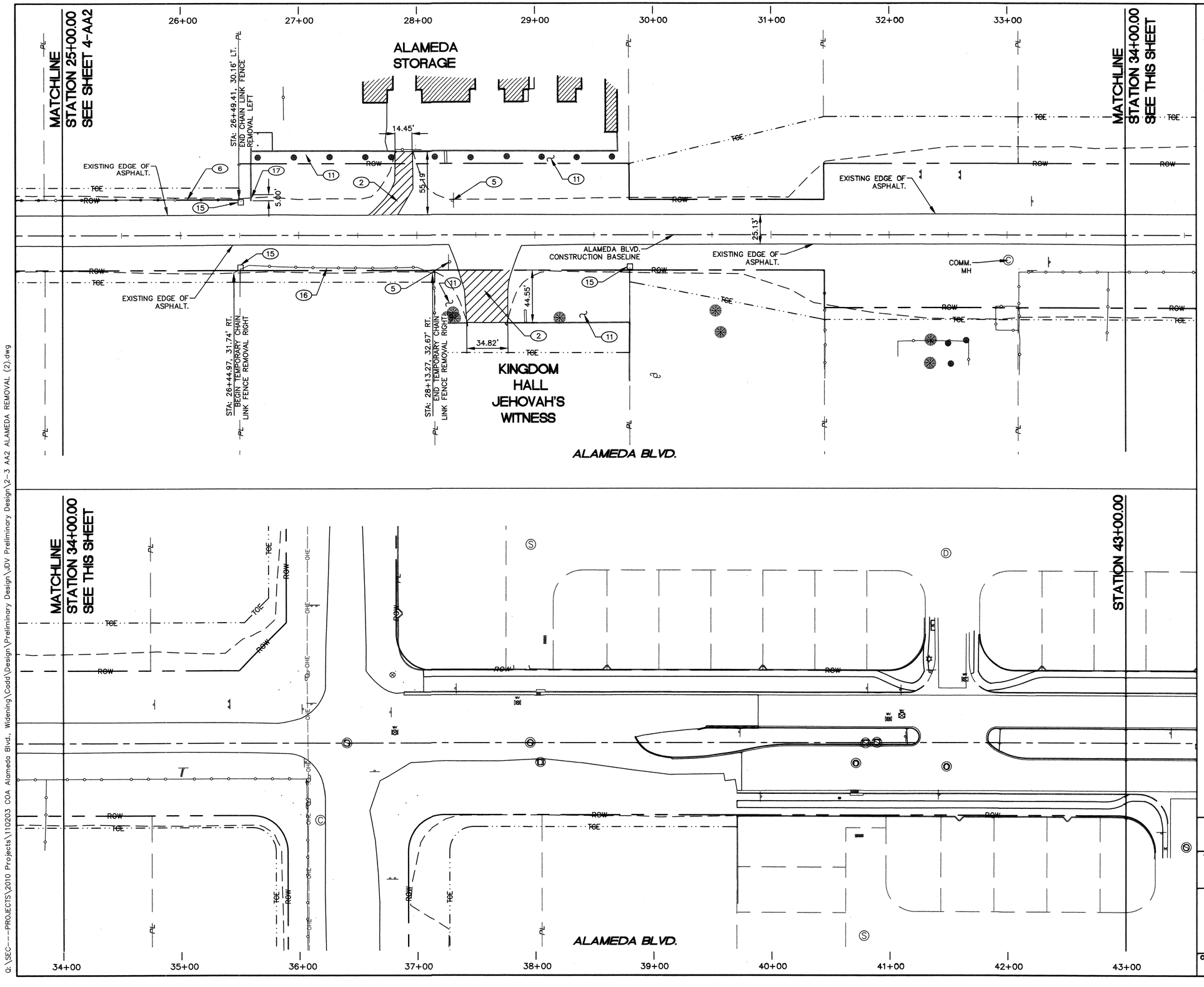
TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

ALAMEDA REMOVAL SHEET - STA 7+00 TO STA 25+00

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-2	4-AA2	25

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-2 AA2 ALAMEDA REMOVAL (2).dwg



GENERAL NOTES:

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◯ KEYED NOTES:

(2) REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT.

(5) REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGN.

(6) REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE.

(11) EXISTING LANDSCAPING TO REMAIN.

(15) EXISTING COMMUNICATION CABINET TO BE RELOCATED BY OTHERS.

(16) REMOVE, STORE AND REINSTALL EXISTING TEMPORARY CHAIN LINK FENCE. REINSTALL WHEN CONSTRUCTION IS COMPLETE.

(17) REMOVE & DISPOSE OF 5 LF OF 2' HIGH BLOCK WALL.

LEGEND

ASPHALT REMOVAL

40' 20' 0 40' 80'

SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376
TEXAS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYING, INC.	DATE 7-14
INSPECTOR'S FIELD CHANGE	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
AS-BUILTS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

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The coordinates and elevations are US Survey Feet.

ENGINEERS SEAL
DOUGLAS L. ANDREWS NEW MEXICO #771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	DLA	DATE 12-2012	
DRAWN BY	SEC	DATE 12-2012	
CHECKED BY	DLA	DATE 12-2012	

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

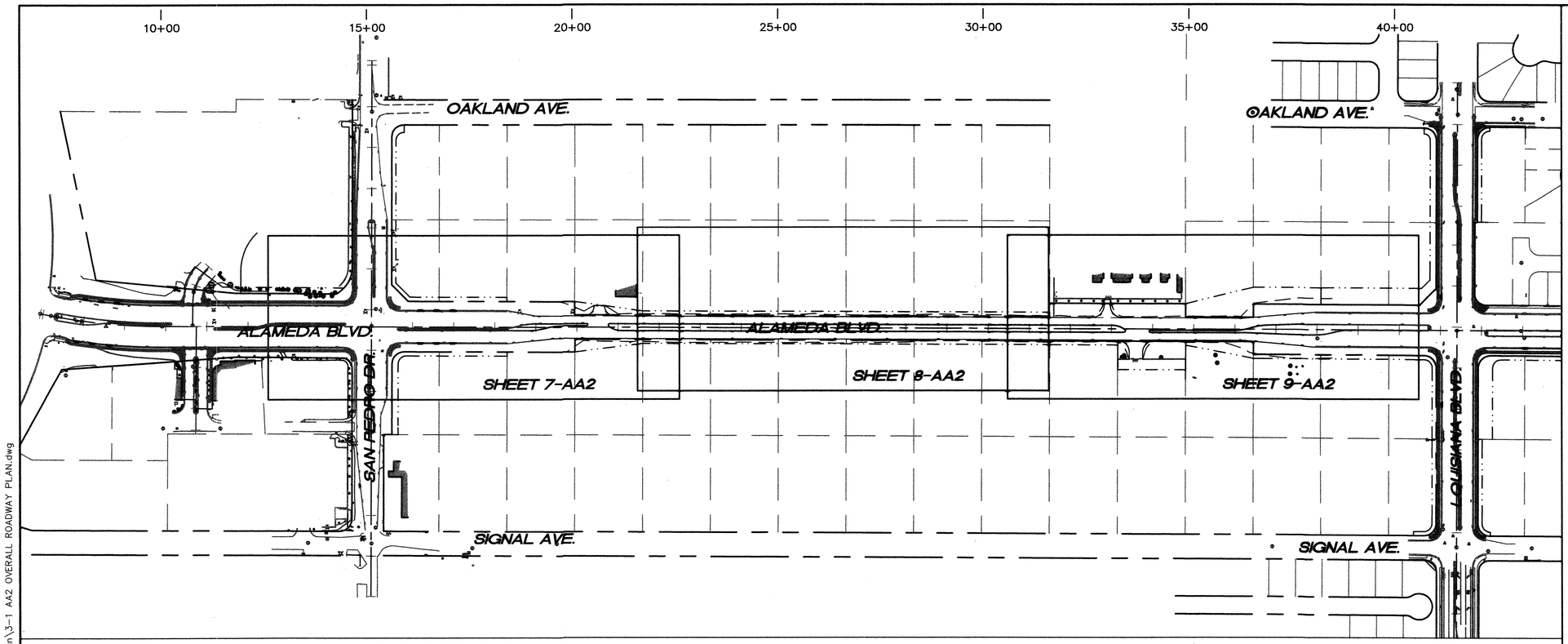
TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

ALAMEDA REMOVAL SHEET - STA 25+00 TO STA 43+00

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	2-3	5-AA2	25

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\2-3 AA2 ALAMEDA REMOVAL (2).dwg



Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-1 AA2 OVERALL ROADWAY PLAN.dwg

150' 75' 0 150' 300'

SCALE: 1" = 150'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
NEW MEXICO
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110
Phone: (505) 884-0700 Fax: (505) 884-2376
TEXAS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.98

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL
DOUGLAS L. ANDREWS NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

OVERALL ROADWAY IMPROVEMENT PLAN

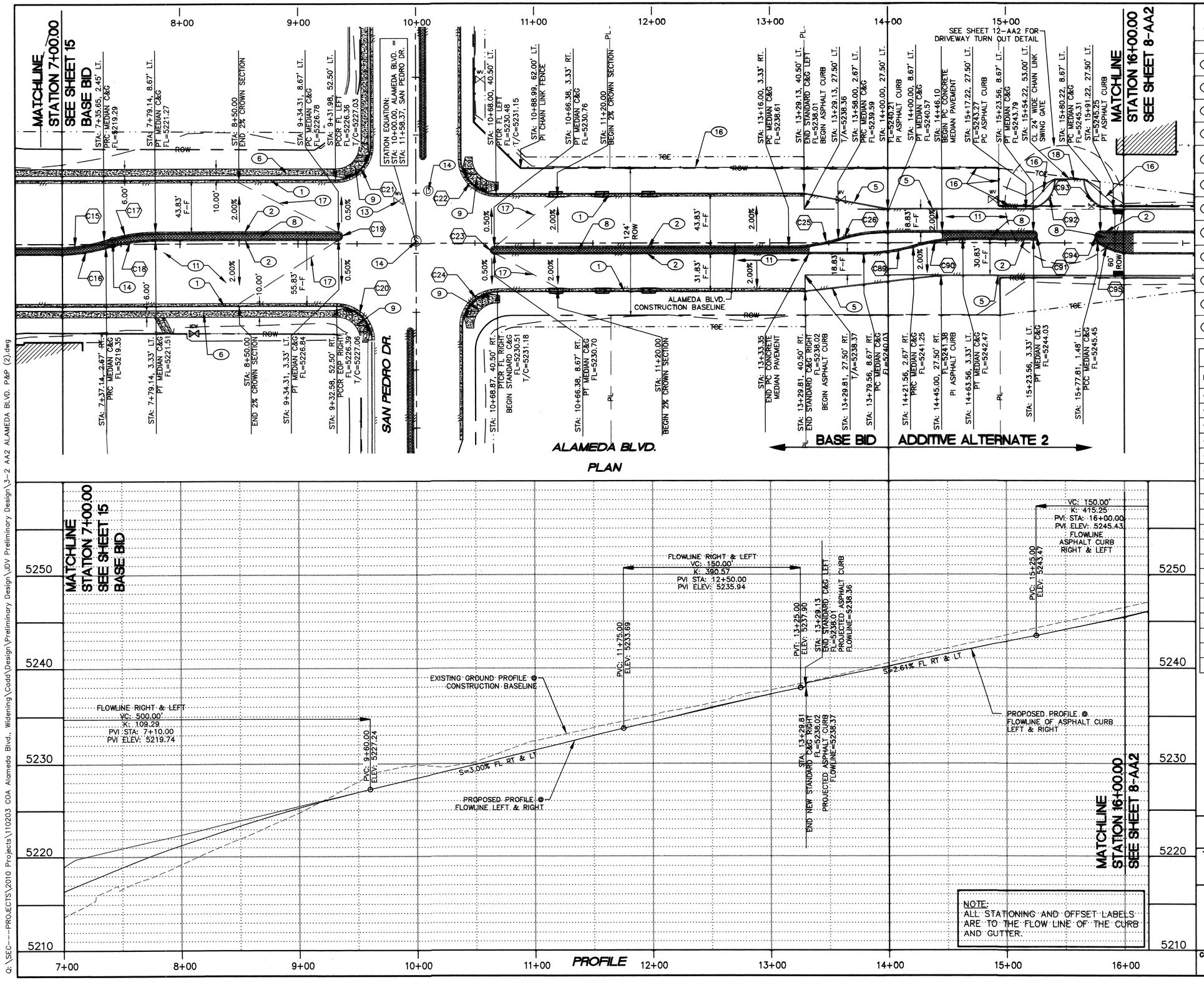
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-1	6-AA2	25



NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

GENERAL NOTES

1. SEE SHEET 28 BASE BID FOR INTERSECTION LAYOUT.

KEYED NOTES

1	BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
2	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
5	BUILD NEW TEMPORARY ASPHALT CURB PER COA STD. DWG 2415B.
6	BUILD NEW PORTLAND CEMENT CONCRETE SIDEWALK PER COA STD. DWG. 2430.
8	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
9	BUILD ADA CURB ACCESS RAMP PER DETAIL ON SHEET 33 BASE BID.
11	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30 BASE BID.
13	ADJUST EXISTING VALVE BOX TO NEW GRADE PER COA STD. DWG. 2460.
14	ADJUST EXISTING MANHOLE TO NEW GRADE PER COA STD. DWG. 2460.
16	INSTALL NEW 6' HIGH CHAINLINK FENCE.
17	BUILD CROWN TRANSITION.
18	BUILD NEW 24' WIDE CHAIN LINK SWING GATE (6' TALL, DOUBLE GATE).

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C15	16°15'37"	20.67	144.67	41.06
C16	16°15'37"	21.43	150.00	42.57
C17	16°15'37"	22.19	155.33	44.08
C18	16°15'37"	21.43	150.00	42.57
C19	180°00'00"	INFINITY	2.67	8.38
C20	89°56'27"	29.97	30.00	47.09
C21	90°00'14"	30.00	30.00	47.13
C22	89°59'29"	30.00	30.00	47.12
C23	180°00'00"	INFINITY	2.67	8.38
C24	90°00'31"	30.00	30.00	47.13
C25	16°15'37"	21.43	150.00	42.57
C26	16°15'37"	21.43	150.00	42.57
C89	16°15'37"	21.43	150.00	42.57
C90	16°15'37"	21.43	150.00	42.57
C91	180°00'00"	INFINITY	2.67	8.38
C92	90°00'00"	25.00	25.00	39.27
C93	90°00'00"	25.00	25.00	39.27
C94	142°51'15"	11.90	4.00	9.97
C95	37°08'45"	16.80	50.00	32.42

40' 20' 0 40' 80'
SCALE: 1" = 40'

10' 5' 0 2.5' 5'
SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING Consultants NEW MEXICO TEXAS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2295

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS
Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project overage combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96 The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTION'S MADE THANKS BY	COA DATE 7-14
FIELD VERIFICATION BY	COA DATE 7-14
MARKS SHOWN HEREON CORRECTED BY	SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

ENGINEER'S SEAL
DONALD L. ANDREWS NEW MEXICO 9771 REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

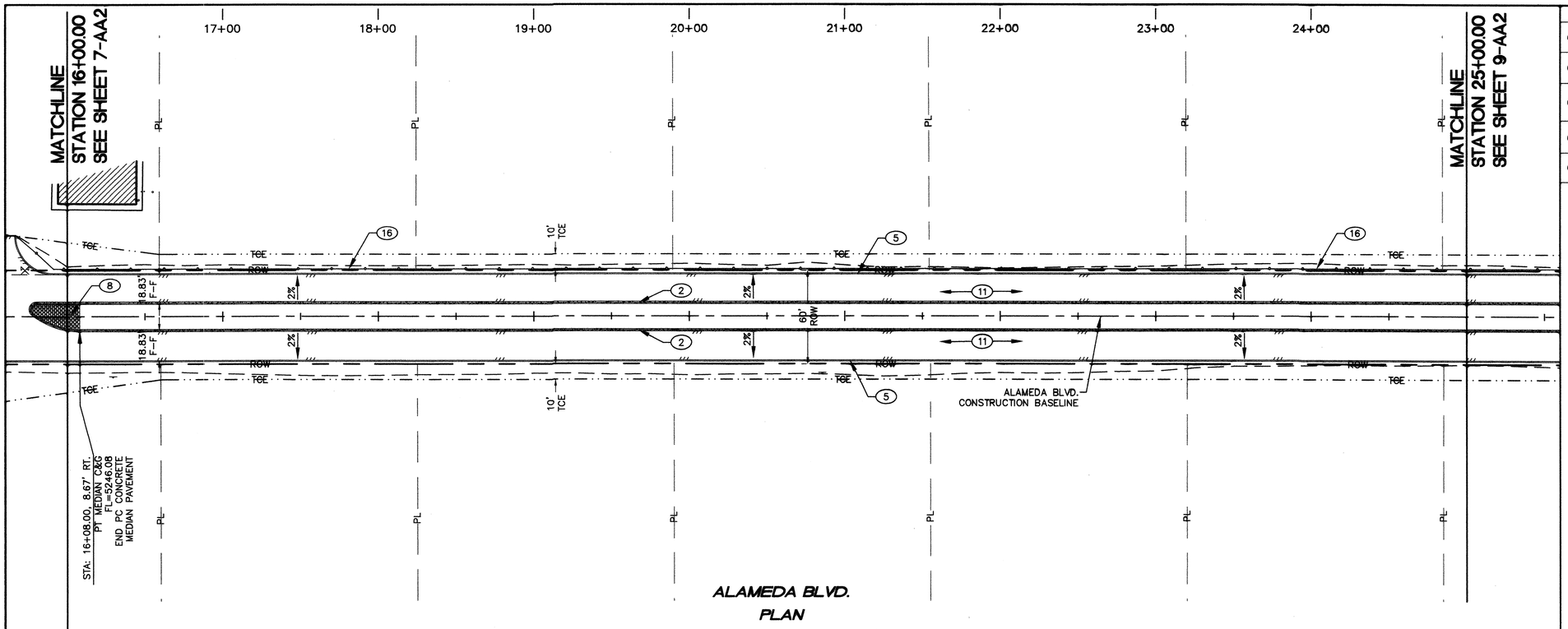
ALAMEDA ROADWAY PLAN & PROFILE STA 7+00 TO STA 16+00

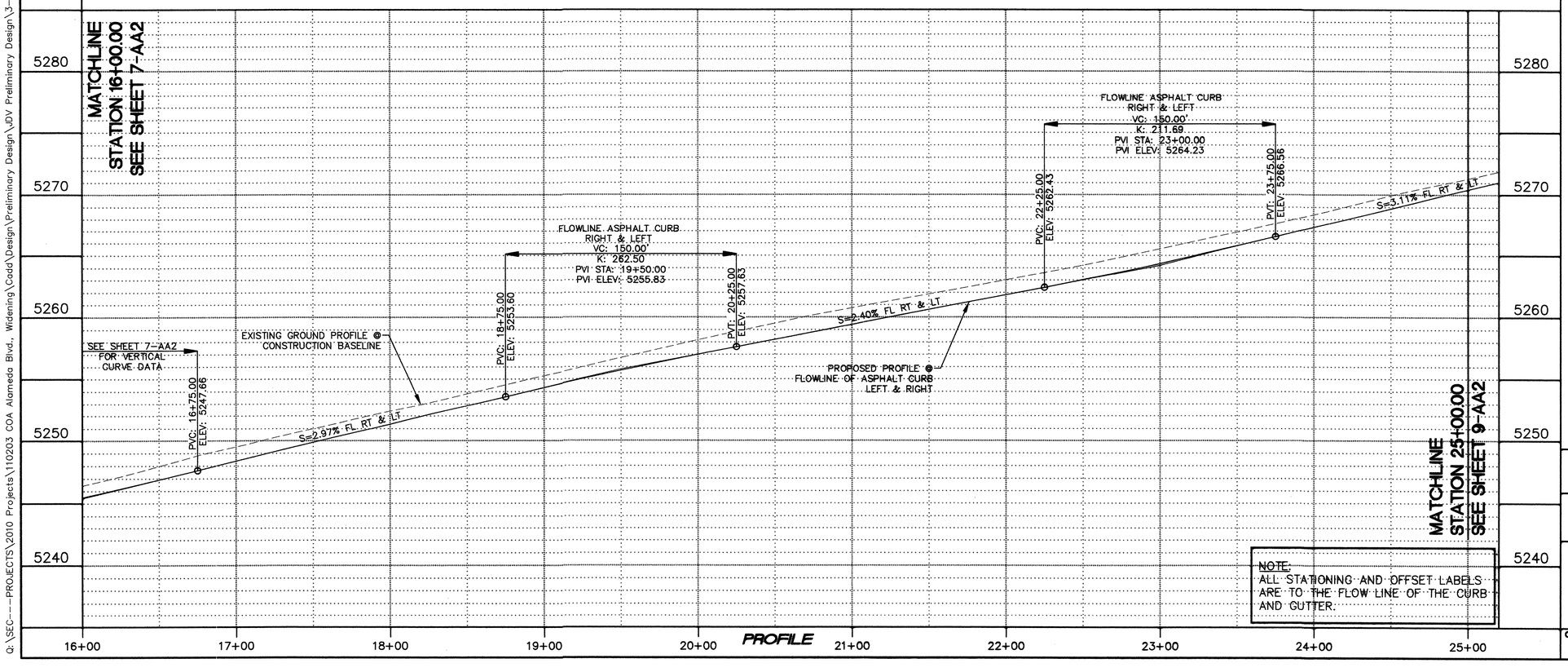
Design Review Committee: APPROVE JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVE JAN 11 2013 CITY ENGINEER
Last Design Update

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-2	7-AA2	25

No. / Day / Yr.

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-2 AA2 ALAMEDA BLVD. P&P (2).dwg





NOTE:
ALL STATIONING AND OFFSET LABELS ARE TO THE FLOW LINE OF THE CURB AND GUTTER.

KEYED NOTES

(2) BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.

(5) BUILD NEW TEMPORARY ASPHALT CURB PER COA STD. DWG 2415B.

(8) BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.

(11) BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30 BASE BID.

(16) INSTALL NEW 6' HIGH CHAINLINK FENCE.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.
Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96 (published
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEERS SEAL

Douglas L. Andrews
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
17177
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE 12-2012	DESIGNED BY DLA	
	DATE 12-2012	DRAWN BY SEC	
	DATE 12-2012	CHECKED BY DLA	

SCALE: 1" = 40'

SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
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Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376
NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

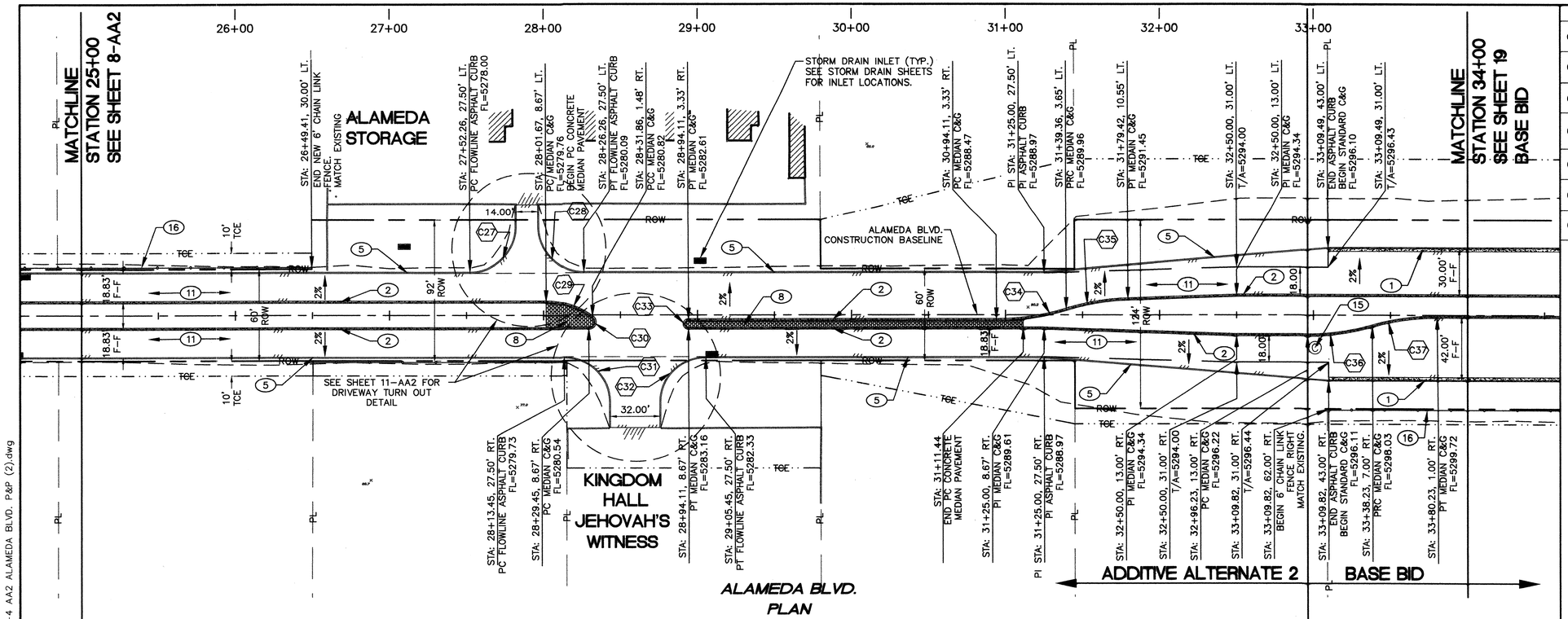
ALAMEDA ROADWAY PLAN & PROFILE STA 16+00 TO STA 25+00

Design Review Committee: APPROVE JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVE JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-3	8-AA2	25

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-3 AA2 ALAMEDA BLVD. P&P (2).dwg



KEYED NOTES

1. BUILD NEW STANDARD CURB AND GUTTER PER COA STD. DWG. 2415A.
2. BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
5. BUILD NEW TEMPORARY ASPHALT CURB PER COA STD. DWG 2415B.
8. BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
11. BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 30 BASE BID.
15. EXISTING COMM. MANHOLE TO BE ADJUSTED TO GRADE – BY OTHERS.
16. INSTALL NEW 6' HIGH CHAINLINK FENCE.

CURVE DATA TABLE

NO.	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C27	90°00'00"	30.00	30.00	47.12
C28	90°00'00"	30.00	30.00	47.12
C29	37°08'45"	16.80	50.00	32.42
C30	142°51'15"	11.90	4.00	9.97
C31	90°00'00"	30.00	30.00	47.12
C32	90°00'00"	30.00	30.00	47.12
C33	180°00'00"	INFINITY	2.67	8.38
C34	17°33'28"	23.16	150.00	45.97
C35	15°34'21"	20.51	150.00	40.77
C36	16°15'37"	21.43	150.00	42.57
C37	16°15'37"	21.43	150.00	42.57

SCALE: 1" = 40'

SCALE: 1" = 5'

SEC JOB # 110203

SMITH ENGINEERING COMPANY — SOLUTIONS FOR TODAY... VISION FOR TOMORROW — 2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2376 — NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

ALAMEDA ROADWAY PLAN & PROFILE STA 25+00 TO STA 34+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

Last Design Update

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-4	9-AA2	25

AS BUILT INFORMATION

CONTRACTOR: RMCI, INC.
WORK STAKED BY: CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY: COA DATE 7-14
FIELD VERIFICATION BY: COA DATE 7-14
CORRECTED BY: SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY: DATE
NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the
NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEER'S SEAL — DOUGLAS J. ANDREW — NEW MEXICO — 12177 — REGISTERED PROFESSIONAL ENGINEER — 01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: DLA DATE 12-2012
DRAWN BY: SEC DATE 12-2012
CHECKED BY: DLA DATE 12-2012

Q:\SEC-----PROJECTS\2010 Projects\110203 COA Alameda Blvd. Widening\Cadd\Design\Preliminary Design\dDV Preliminary Design\3-4 AA2 ALAMEDA BLVD. P&P (2).dwg

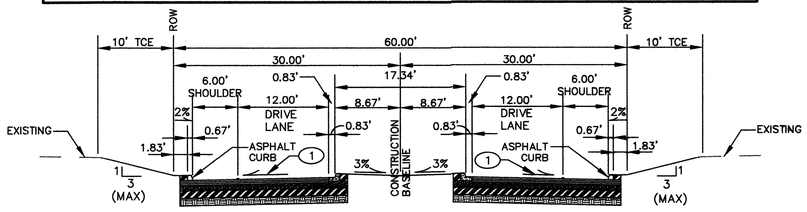
GENERAL NOTE

SECTIONS SHOWN DO NOT SHOW OR ACCOUNT FOR LEFT TURN LANES, INTERSECTIONS, DRIVEPADS, OR TURN-OUTS FOR CLARITY.

KEYED NOTE

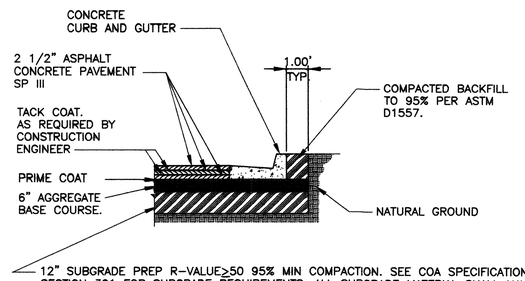
(1) 2% UNLESS OTHERWISE SHOWN ON PLAN DRAWINGS.

SEE PLAN DRAWINGS FOR TRANSITION SECTION INFORMATION FROM STA: 31+25.00 TO STA: 33+09.49



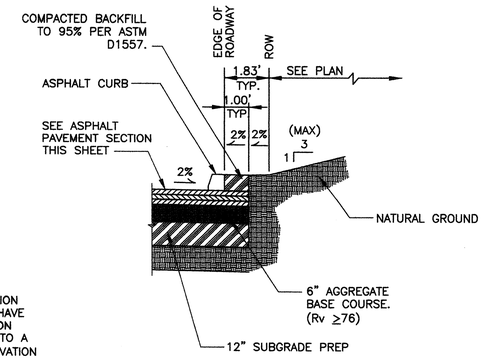
ALAMEDA BLVD. STA: 14+45.00 TO STA: 31+25.00

SEE PLAN DRAWINGS FOR TRANSITION SECTION INFORMATION FROM STA: 14+00.00 TO STA: 14+45.00



ASPHALT PAVEMENT SECTION

N.T.S.



ASPHALT CURB PAVEMENT DETAIL

N.T.S.

BENCH MARKS

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N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid

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The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

AS BUILT INFORMATION

CONTRACTOR RMCI, INC. DATE 7-14

WORK STAKED BY CARTESIA, INC. DATE 7-14

INSPECTOR'S ACCEPTANCE BY COA DATE 7-14

FIELD VERIFICATION BY COA DATE 7-14

DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL

DOUGLAS L. ANDREWS NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 13

01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0200
Fax: (505) 884-2976
NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

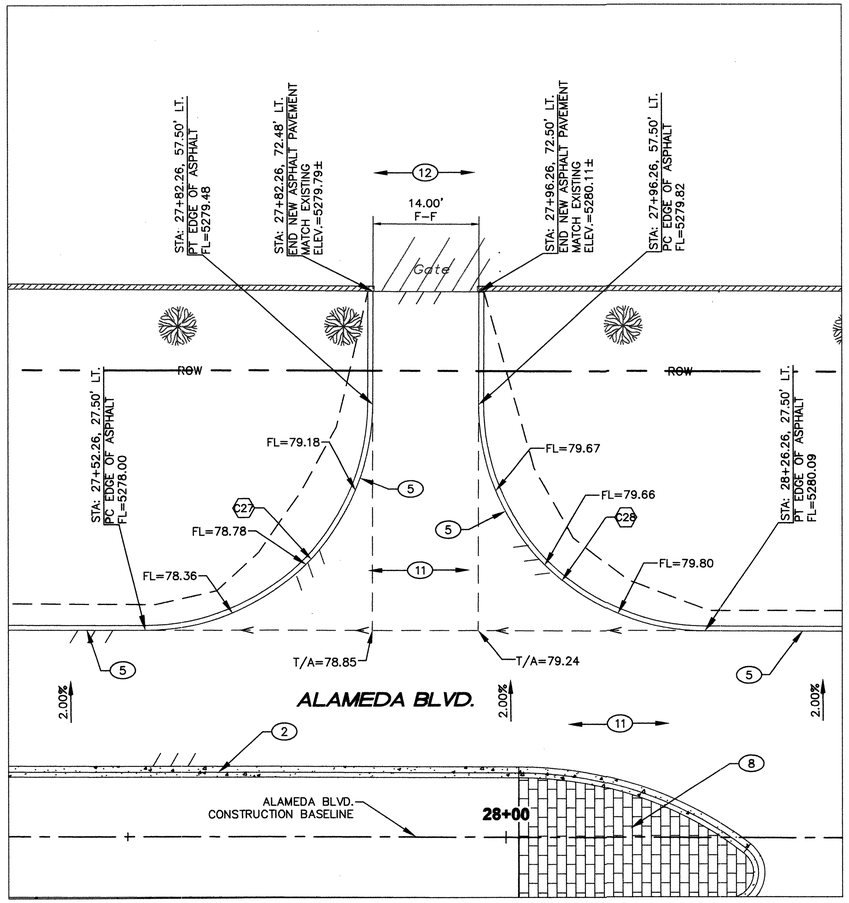
TITLE: **ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2**

TYPICAL SECTIONS & PAVING DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-5	10-AA2	25

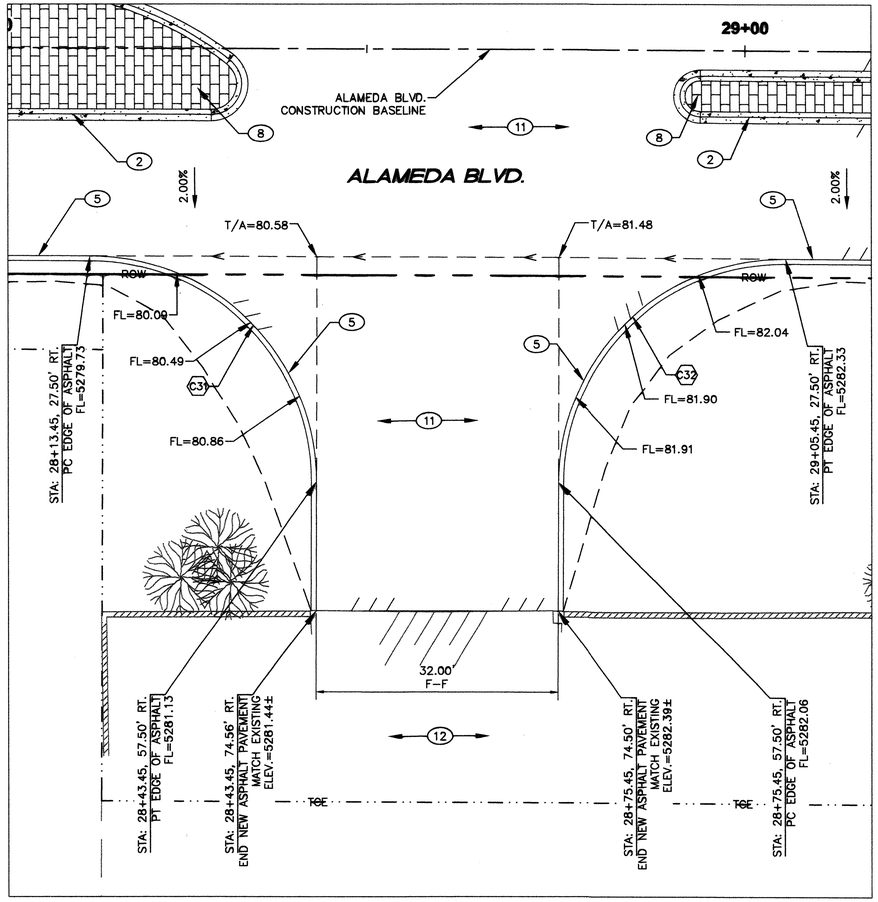
Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-15 AA2 TYPICAL SECTIONS.dwg



ALAMEDA STORAGE DRIVEWAY

SCALE 1" = 10'

STATION 27+52.26 TO STATION 28+26.26



KINGDOM HALL - JEHOVAH'S WITNESS DRIVEWAY

SCALE 1" = 10'

STATION 28+13.45 TO STATION 29+05.45

GENERAL NOTES

1. SEE SHEET 9-AA2 FOR CURVE DATA.

KEYED NOTES

(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(5)	BUILD NEW TEMPORARY ASPHALT CURB PER COA STD. DWG 2415B.
(8)	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 10-AA2.
(12)	EXISTING PAVEMENT TO REMAIN.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'); N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTORS ACCEPTANCE	COA	DATE 7-14
FIELD VERIFICATION	COA	DATE 7-14
AS-BUILTS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

ENGINEER'S SEAL

DOUGLAS L. ANDREWS, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER, 12641

01-03-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DLA DATE 12-2012
DRAWN BY SEC DATE 12-2012
CHECKED BY DLA DATE 12-2012

10' 5' 0 10' 20'
SCALE: 1" = 10'

SEC JOB # 110203

SMITH ENGINEERING COMPANY
NEW MEXICO TEXAS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0700
Fax: (505) 884-2376

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

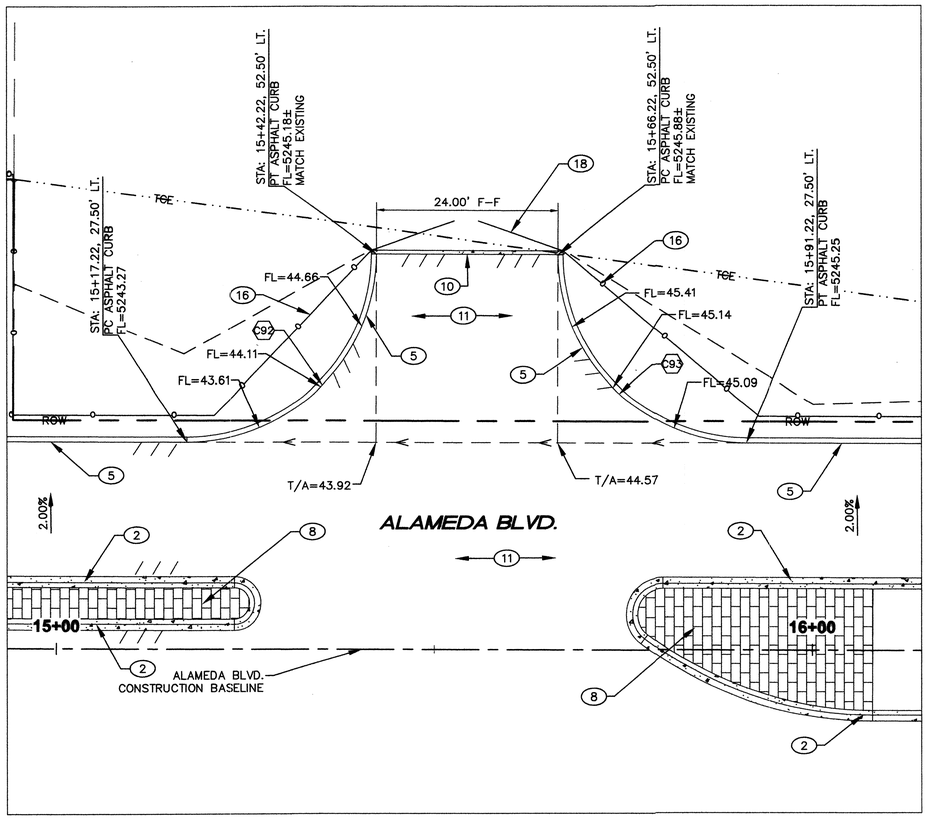
TITLE: **ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2**

PRIVATE DRIVEWAY DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-6	11-AA2	25

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\3-16 AA2 PRIVATE DRIVEWAY DETAILS 1.dwg



BUSINESS DRIVEWAY

SCALE 1" = 10'

STATION 15+17.22 TO STATION 15+91.22

GENERAL NOTES

1. SEE SHEET 7-AA2 FOR CURVE DATA.

KEYED NOTES

(2)	BUILD NEW MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B.
(5)	BUILD NEW TEMPORARY ASPHALT CURB PER COA STD. DWG 2415B.
(8)	BUILD NEW PORTLAND CEMENT CONCRETE PATTERNED MEDIAN PAVEMENT PER COA STD. DWG. 2408.
(10)	BUILD CUTOFF WALL PER COA STD. DWG. 2415B.
(11)	BUILD NEW ASPHALT PAVEMENT PER DETAIL SHEET 10-AA2.
(16)	INSTALL NEW 6' HIGH CHAIN LINK FENCE.
(18)	BUILD NEW 24' WIDE CHAIN LINK GATE (6' TALL, DOUBLE GATE).

10' 5' 0 10' 20'

SCALE: 1" = 10'

SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2381 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-0200
Fax: (505) 884-2276
NEW MEXICO TEXAS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE	COA DATE 7-14
FIELD VERIFICATION	BY COA DATE 7-14
DRAWING CORRECTED	BY SMITH ENGINEERING CO. DATE 7-14
RECORDED BY	DATE
NO.	

MICRO-FILM INFORMATION

ENGINEER'S SEAL
DOUGLAS L. CODD
NEW MEXICO
NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	DLA
		DRAWN BY	SEC
		CHECKED BY	DLA

DATE 12-2012
DATE 12-2012
DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

PRIVATE DRIVEWAY DETAILS

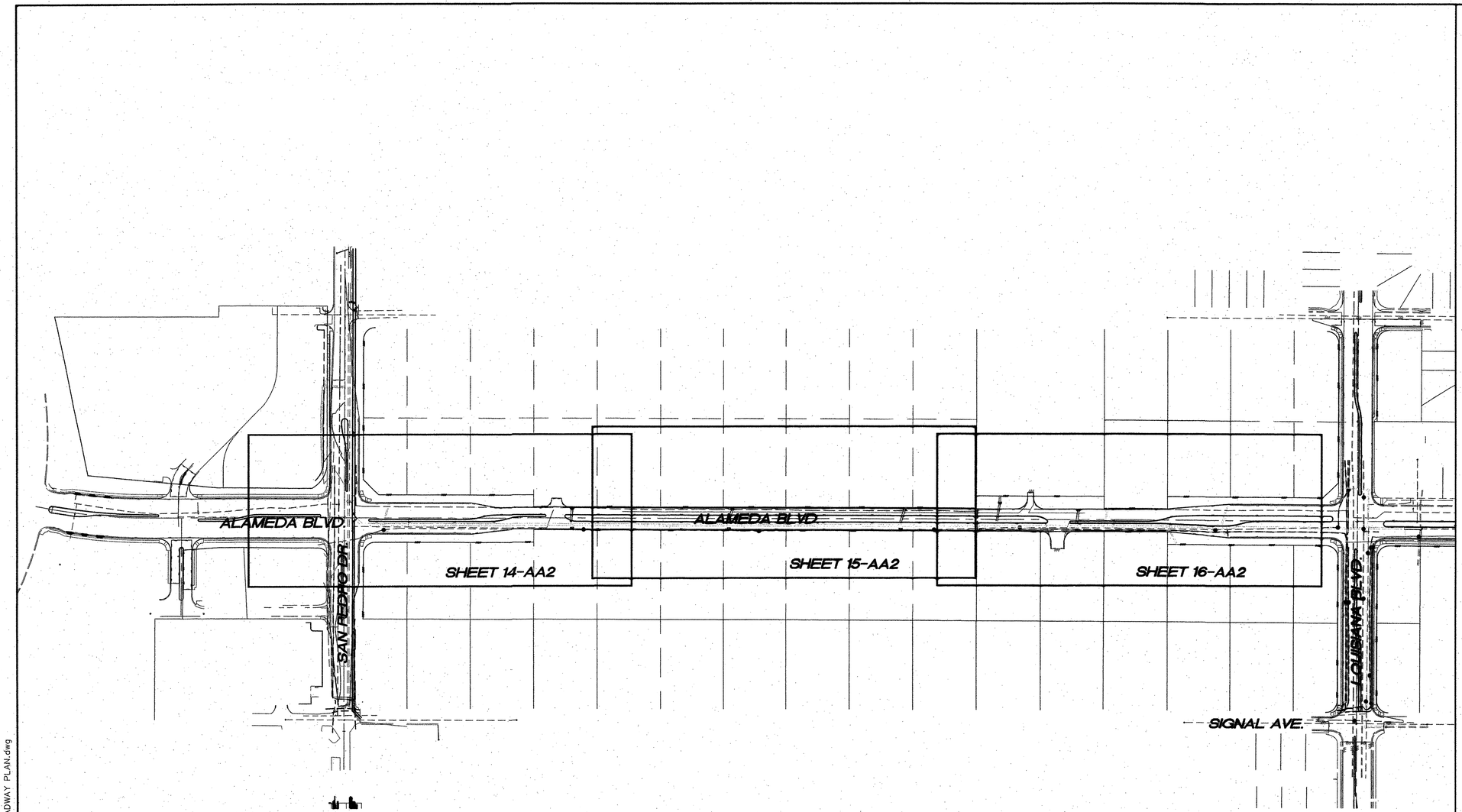
Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	3-7	12-AA2	25

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Codd\Design\Preliminary Design\DV Preliminary Design\3-17 AA2 PRIVATE DRIVEWAY DETAILS 2.dwg

RECORD DRAWINGS



150' 75' 0 150' 300'

SCALE: 1" = 150'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY:	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTION ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

The coordinates and elevations are US Survey Feet.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').

SURVEY INFORMATION

FIELD NOTES BY

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11-2010

ENGINEERS SEAL

DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER

1-4-13

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY DBT	DATE 12-2012
		DRAWN BY DEM	DATE 12-2012
		CHECKED BY DBT	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

OVERALL STORM DRAIN IMPROVEMENT PLAN

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER

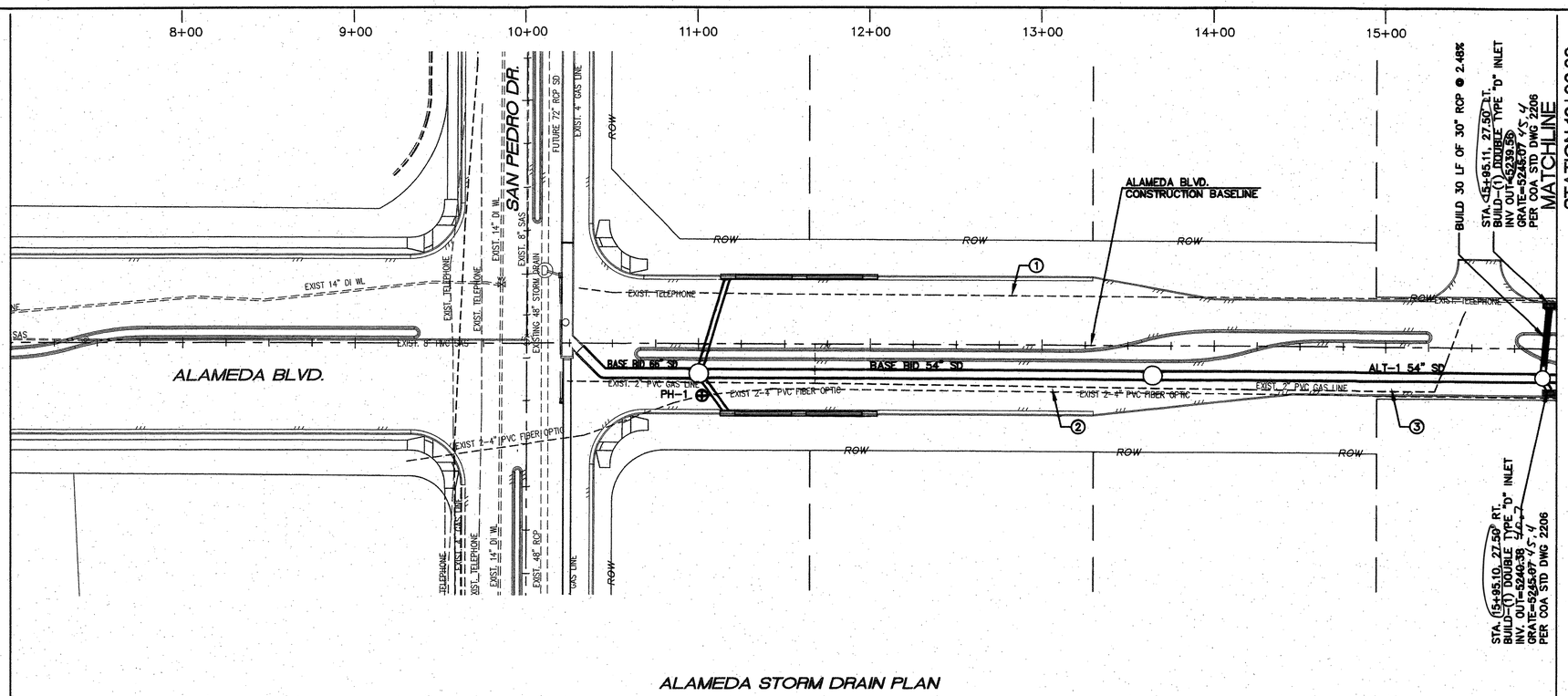
Last Design Update

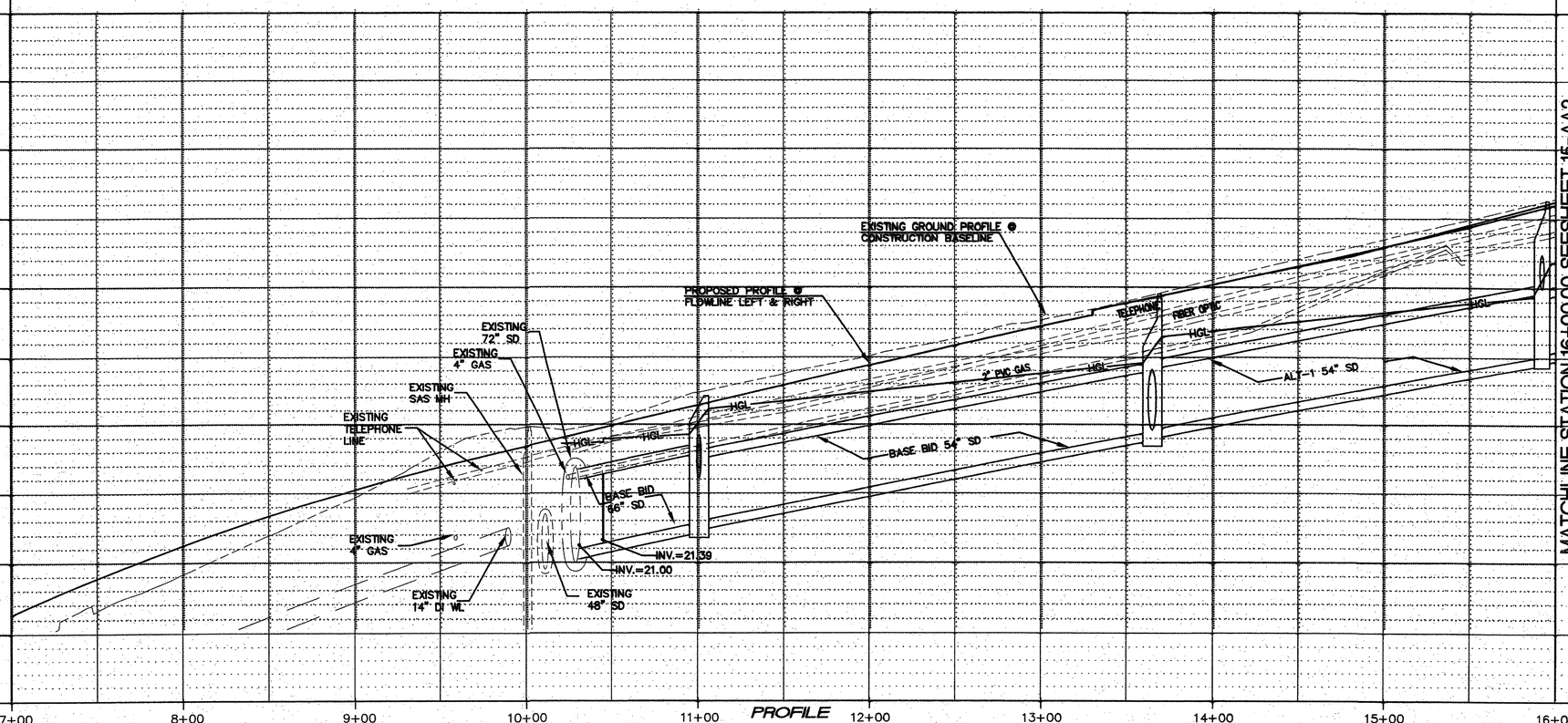
No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-1	13-AA2	25

Y:\PROJECTS\COA Alameda\ALTERNATE-BASES\ALTERNATIVE-2\4-1 OVERALL ROADWAY PLAN.dwg

RECORD DRAWINGS





KEYED NOTES:

1. EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.
2. EXISTING 2–4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.
3. EXISTING 2" PVC GAS LINE TO BE RELOCATED BY GAS CO. OF N.M.

POT–HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH–1	5230.33	FIBER OPT.	PVC	2–4"

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTE:
HGL BASED ON DEVELOPED CONDITIONS WITH FUTURE STORM DRAIN SYSTEM CONSTRUCTED.

SCALE: 1" = 40'

SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

AS BUILT INFORMATION

	CONTRACTOR	DATE
WORK PERFORMED BY	RMCI, INC.	DATE 7-14
INSPECTION & ACCEPTANCE BY	CORNERSTONE SURVEYS, INC.	DATE 7-14
VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	ENGINEERING CO.	DATE 7-14

BENCH MARKS

Coordinates shown hereon are modified (surface).
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.0003334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10–C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DBT	DATE 12-2012
		DRAWN BY DEM	DATE 12-2012
		CHECKED BY DBT	DATE 12-2012

MICRO–FILM INFORMATION

NO.	RECORDED BY	DATE

ENGINEERS SEAL
DAVID B. THOMPSON NEW MEXICO 9677 PROFESSIONAL ENGINEER
1-4-13

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

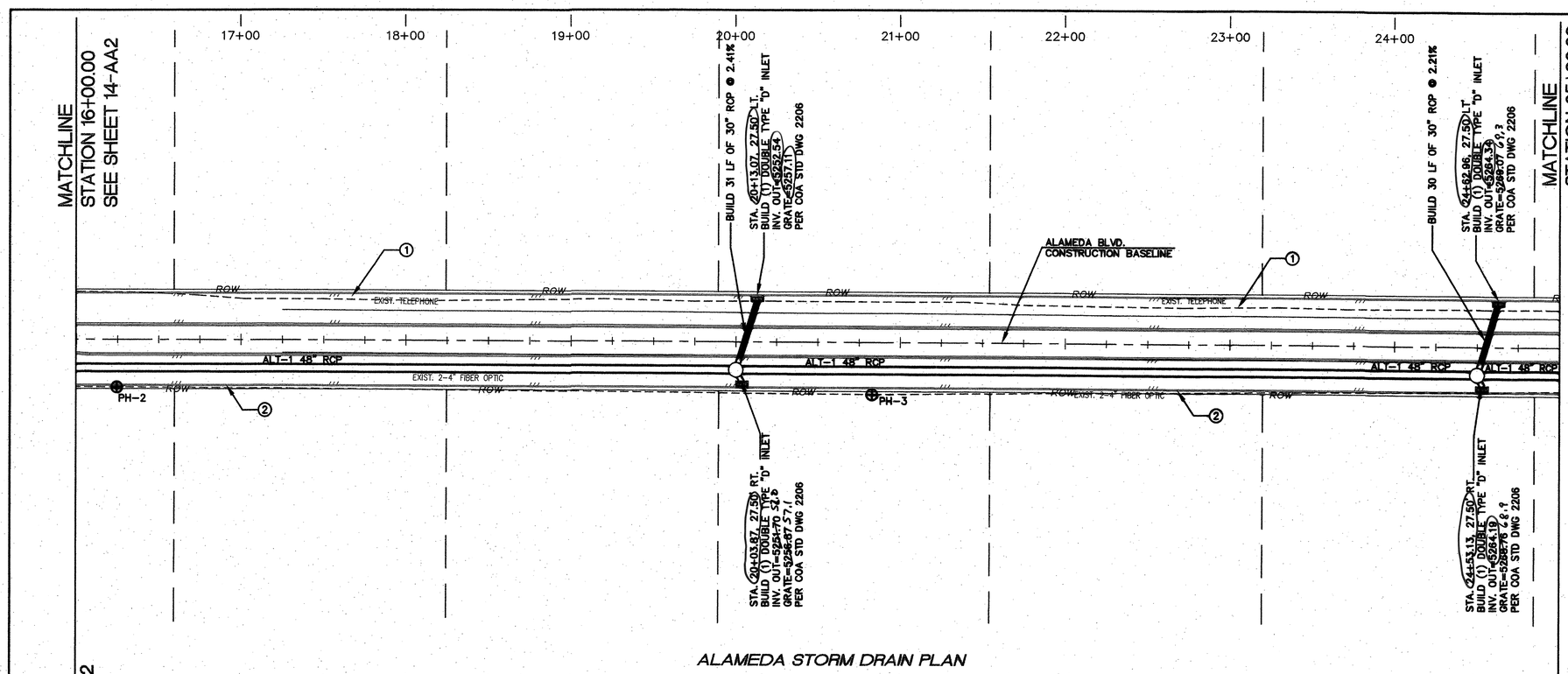
TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 7+00.00 TO STA. 16+00

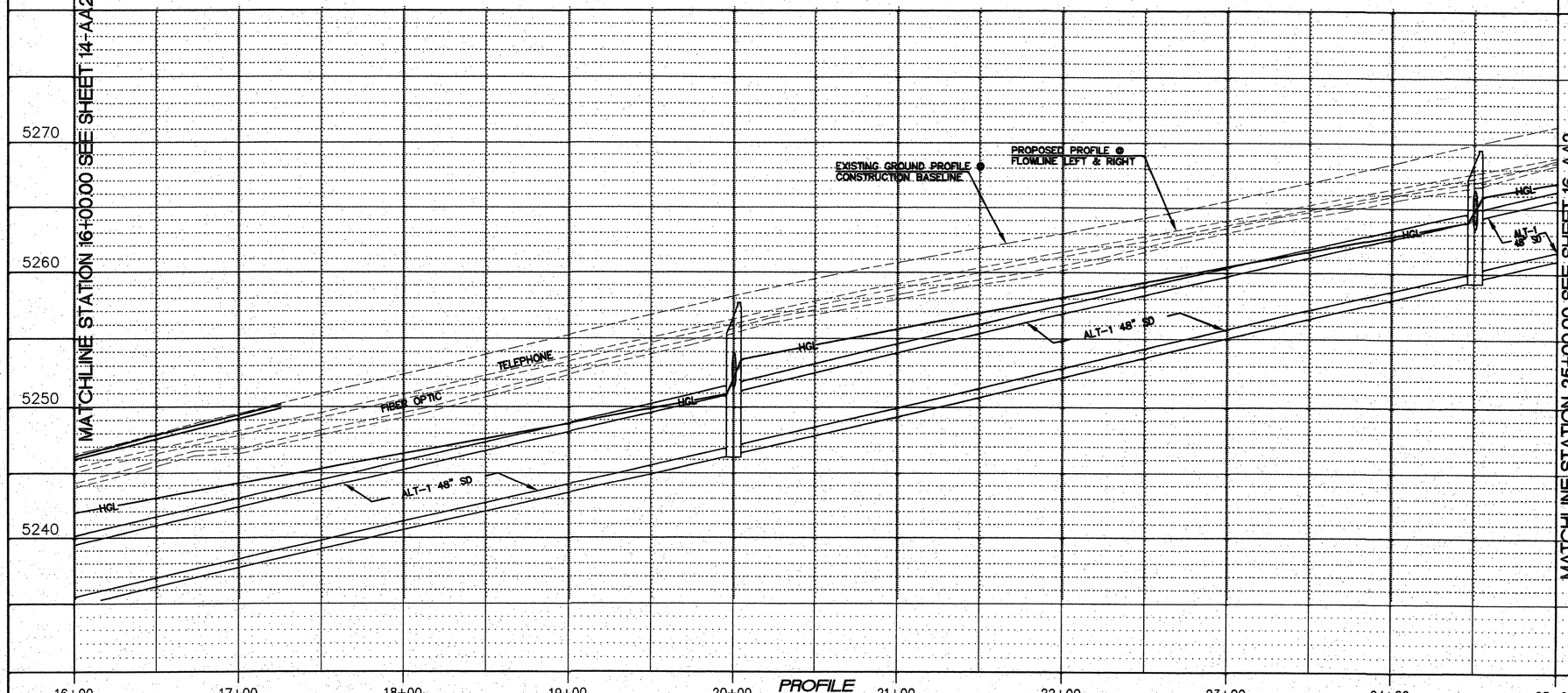
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
766391	C-18/C-19	4-2	14-AA2	25

RECORD DRAWINGS



ALAMEDA STORM DRAIN PLAN



PROFILE

KEYED NOTES:

① EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.

② EXISTING 2-4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-2	5245.79	FIBER OPT	PVC	2-4"
PH-3	5258.36	FIBER OPT	PVC	2-4"

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

BENCH MARKS
Coordinates shown hereon are modified (surface).
N.M. State Plane Coordinates - Central Zone.
NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "TO-C18, 1985" (published elevation = 5222.090').

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE	COA DATE 7-14
FIELD VERIFICATION BY	COA DATE 7-14
DRAWINGS COMPILED BY	SMITH ENGINEERING CO. DATE 7-14
RECORDED BY	DATE
NO.	

MICRO-FILM INFORMATION
The coordinates and elevations are US Survey Feet.

ENGINEERS SEAL
DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER
1-4-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY DBT DATE 12-2012
DRAWN BY DEM DATE 12-2012
CHECKED BY DBT DATE 12-2012

SCALE: 1" = 40'
SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

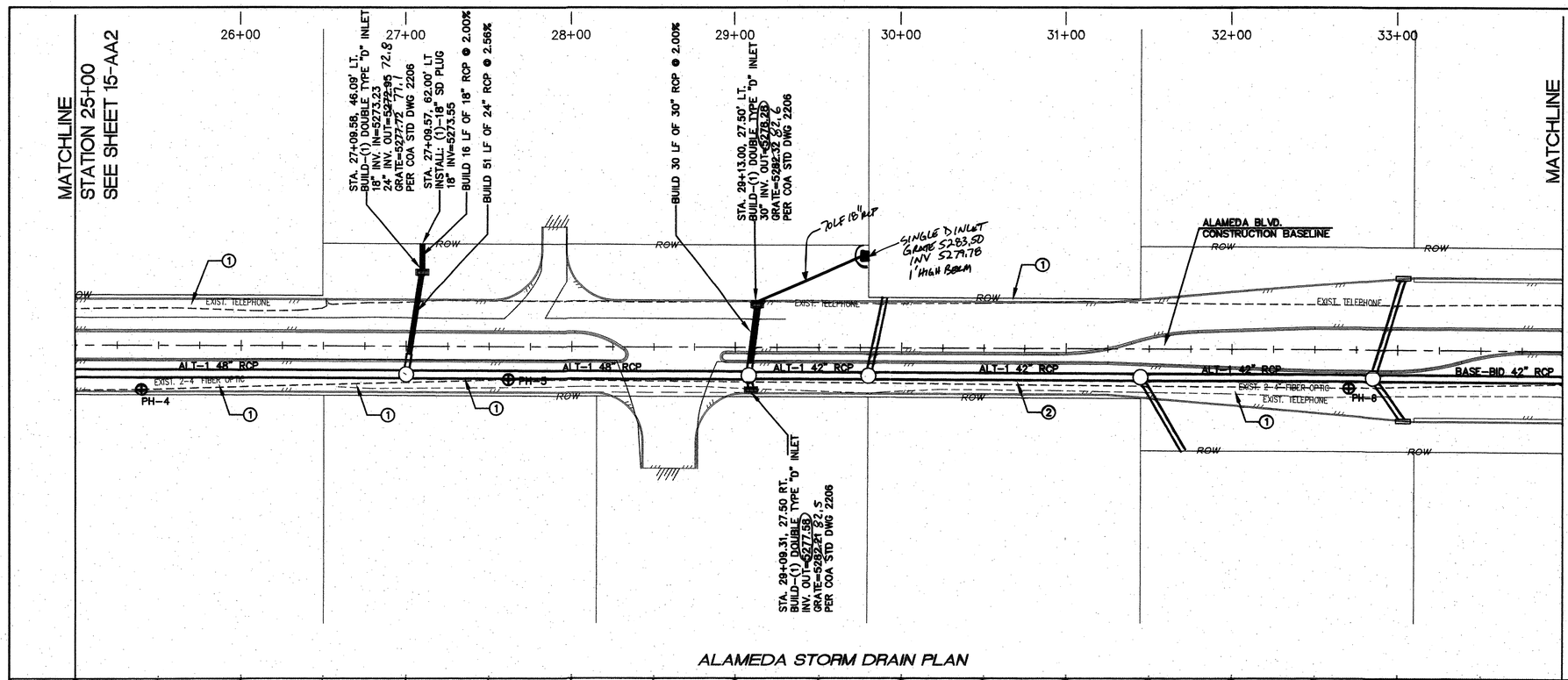
TITLE:
ALAMEDA BLVD. WIDENING
ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 16+00 TO STA. 25+00

Design Review Committee: APPROVE JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVE JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-3	15-AA2	25

RECORD DRAWINGS



KEYED NOTES:

① EXISTING DIRECT BURY TELEPHONE LINE TO BE REMOVED AND DISPOSED BY CENTURYLINK.

② EXISTING 2-4" PVC FIBER OPTIC LINES TO BE RELOCATED BY CENTURYLINK.

POT-HOLE INFORMATION

NO.	ELEV. AT TOP OF PIPE	DESCRIPTION		
		UTILITY	MATERIAL	DIAMETER
PH-4	5269.52	FIBER OPT	PVC	2-4"
PH-5	5276.51	FIBER OPT	PVC	2-4"
PH-6	5291.91	FIBER OPT	PVC	2-4"

Certification
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICALLY AND HORIZONTALLY) TO THE BEST OF MY KNOWLEDGE AND BELIEF.

B~ J mJ

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

BENCH MARKS
Coordinates shown hereon are modified (surface), N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling Plane grid coordinates by the project average combined factor of CF = 1.000334461 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.096').
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH-ENGINEERING CO.	DATE 7-14
RECORDED BY		DATE

MICRO-FILM INFORMATION
NO.

ENGINEERS SEAL
DAVID B. THOMPSON
NEW MEXICO
9677
PROFESSIONAL ENGINEER
LICENSED
Dated 1-4-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DBT 12-2012
			DEM 12-2012
			DBT 12-2012

DESIGNED BY DBT
DRAWN BY DEM
CHECKED BY DBT

SCALE: 1" = 40'
SCALE: 1" = 5'

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

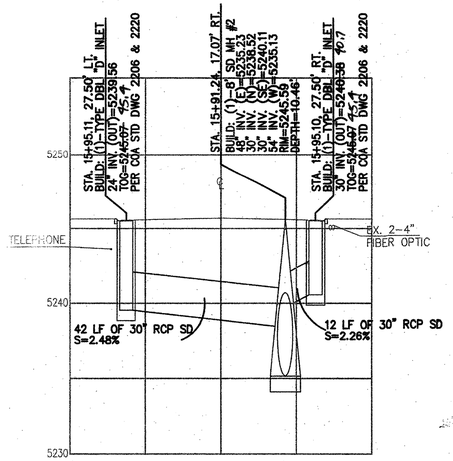
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

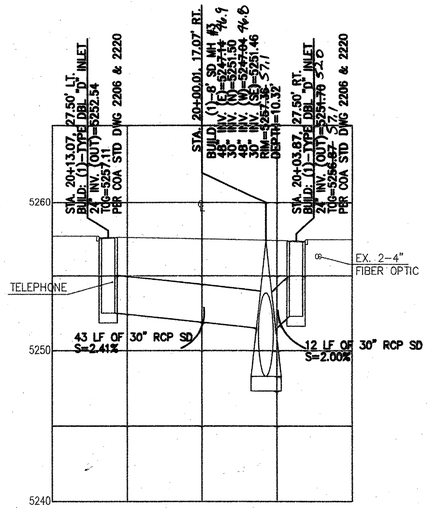
ALAMEDA STORM DRAIN PLAN AND PROFILE STA. 25+00 TO STA. 34+00

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update
No. / Day / Yr.

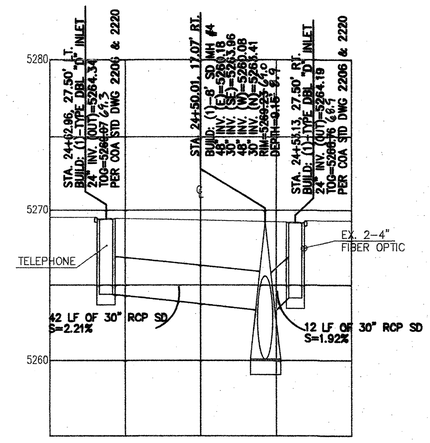
City Project No.	Zone Map No.	Sequence No.	Sheet	Of
766391	C-18/C-19	4-4	16-AA2	25



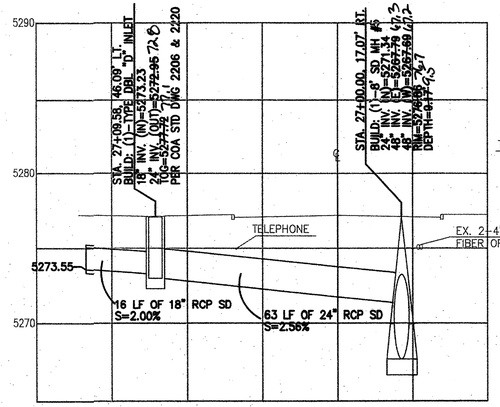
ALAMEDA STORM DRAIN LATERAL
STA. 15+91.24, 17.07' RT.



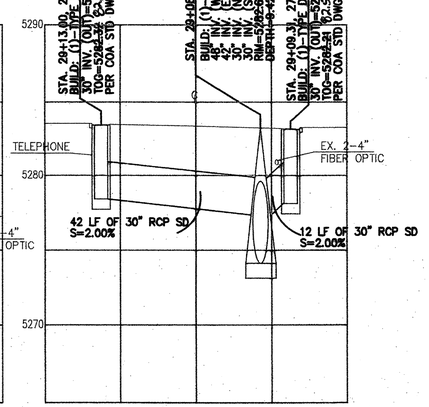
ALAMEDA STORM DRAIN LATERAL
STA. 20+00.01, 17.07' RT.



ALAMEDA STORM DRAIN LATERAL
STA. 24+50.01, 17.07' RT.



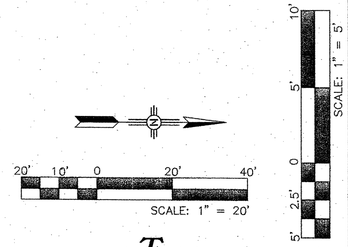
ALAMEDA STORM DRAIN LATERAL
STA. 27+00.00, 17.07' RT.



ALAMEDA STORM DRAIN LATERAL
STA. 29+08.00, 17.07' RT.

NOTE:
ALL LATERAL STORM DRAINS ARE CLASS IV.

* See plan and Profile for as-built info



Thompson Engineering Consultants, Inc.
tecnm@yahoo.com

ENGINEERS' SEAL
DUANE B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER
18-13

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.
WORK STAKED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S FIELD VERIFICATION BY	COA DATE 7-14
DRAWINGS PLOTTED & CORRECTED BY	COA DATE 7-14
ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone,
NAD 83 and were derived by scaling State
Plane grid coordinates by the project average
combined factor of CF = 1.000334961 around
an origin of 0,0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "10-C18,
1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL INC.	11-2010

REMARKS

REVISIONS

NO.	DATE	BY
DESIGNED BY	DBT	DATE 12-2012
DRAWN BY	DEM	DATE 12-2012
CHECKED BY	DBT	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
LATERALS

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Sequence No.	Sheet	Of
7663.91	C-18/C-19	4-5	17-AA2	25

TRAFFIC SIGNAL QUANTITIES (Estimated)

NUMBER	ITEM	UNIT	SAN PEDRO BLVD	LOUISIANA BLVD	WYOMING BLVD	COMMUNICATIONS	TOTAL
421.005	SERVICE RISER (SIGNAL), CIP	EACH	1				1
421.010	METER PEDESTAL (SIGNAL), CIP	EACH	1				1
421.015	SERVICE CONNECTION (SIGNAL), CIP	EACH	1				1
422.004	TYPE I STANDARD, 15', CIP	EACH	8				8
422.019	TYPE III STANDARD, 35' ARM, CIP	EACH	3		1		4
422.021	TYPE III STANDARD, 40' ARM, CIP	EACH	1				1
423.001	TRAFFIC SIGNAL FOUNDATION FOR PEDESTAL POLE, CIP	EACH	8				8
423.002	TRAFFIC SIGNAL MASTARM FOUNDATION, CIP	EACH	4		1		5
423.003	TRAFFIC SIGNAL CONTROLLER FOUNDATION (M & P), CIP	EACH	1				1
424.001	RIGID ELECTRICAL CONDUIT 1" (DIA)	LIN FT	65				65
424.006	RIGID ELECTRICAL CONDUIT 2" (DIA)	LIN FT	785		155		940
424.011	RIGID ELECTRICAL CONDUIT 3" (DIA)	LIN FT	1585	1760	320	6680	9745
425.002	ELECTRICAL PULL BOX (STANDARD), CIP	EACH	4				4
425.003	ELECTRICAL PULL BOX (LARGE), CIP	EACH	18	12	4		34
425.004	ELECTRICAL PULL BOX (TYPE C), CIP	EACH				14	14
425.600	COMMUNICATIONS SPLICE VAULT, CIP	EACH				2	2
426.001	SINGLE CONDUCTOR 2	LIN FT	945				945
426.003	SINGLE CONDUCTOR 6, CIP	LIN FT	3470		830		4300
426.005	SINGLE CONDUCTOR 10 (TRACER), CIP [INCIDENTAL]	LIN FT	110	1240	45	7945	9380
426.005	SINGLE CONDUCTOR 10, CIP	LIN FT	2310		100		2410
426.010	MULTI CONDUCTOR CABLE 5, CIP	LIN FT	1770		395		2165
426.011	MULTI CONDUCTOR CABLE 7, CIP	LIN FT	350				350
426.014	MULTI CONDUCTOR CABLE 20, CIP	LIN FT	1460		465		1925
427.002	3 SECTION TRAFFIC SIGNAL ASSEMBLY (LED), CIP	EACH	11		3		14
427.004	5 SECTION TRAFFIC SIGNAL ASSEMBLY (LED), CIP	EACH	9				9
427.021	PEDESTRIAN COUNTDOWN SIGNAL (LED), CIP	EACH	8		2		10
427.031	3 SECTION BACKPLATE, CIP	EACH	8		2		10
428.010	PUSH BUTTON STATION, CIP	EACH	8		2		10
428.021	LOOP DETECTOR WIRE, CIP	LIN FT	3721				3730
428.050	LOOP LEAD-IN CABLE, CIP	LIN FT	3860				3860
428.060	DETECTOR SAWCUT, CIP	LIN FT	1380				1380
428.071	PHASE SELECTOR MODULE, 2 CHANNEL, CIP	EACH	1				1
428.075	OPTICAL DETECTOR 1 DIRECTION, 1 CHANNEL, CIP	EACH	4		1		5
428.076	OPTICAL DETECTOR CABLE, CIP	LIN FT	1030		255		1285
428.092	VIDEO COAXIAL CABLE, CIP	LIN FT			245		245
428.093	VIDEO POWER CABLE, CIP	LIN FT			245		245
428.094	VIDEO CAMERA - DETECTION, CIP	EACH			1		1
428.210	CCTV CAMERA - PAN, TILT, ZOOM, CIP	EACH	1				1
429.001	TRAFFIC ACTUATED CONTROLLER	EACH	1				1
429.021	8 PHASE, DUAL RING CONTROLLER CABINET, CIP	EACH	1				1
430.001	INTERNALLY ILLUMINATED SIGN	EACH	4				4
432.002	ROADWAY LUMINAIRE TYPE 400S, CIP	EACH	4		1		5
435.006	SINGLE MODE FIBER OPTIC CABLE (6)	EACH				960	960
435.096	SINGLE MODE FIBER OPTIC CABLE (96)	EACH				1605	1605
435.610	EXISTING SPLICE CLOSURE (RESPLICE)	EACH				2	2
435.702	MANAGED FIELD ETHERNET SWITCH	EACH	1				1
435.707	TESTING AND TROUBLESHOOTING	EACH				1	1

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
■	PB	PULL BOX
●	○	SERVICE POLE
M1	EM	METER PEDESTAL
CC1	CC1	CONTROLLER CABINET
●	PB	COMMUNICATIONS VAULT
- - - - - - - -	- - - - - - - -	CONDUIT RUN (SIGNALS)
———	———	CONDUIT RUN (COMMUNICATIONS)
□	□	LOOP DETECTOR
1	1	CONDUIT RUN NUMBER (SIGNAL/LIGHTING)
S1	S1	CONDUIT RUN NUMBER (POWER SERVICE)
C1	C1	CONDUIT RUN NUMBER (COMMUNICATIONS)
		DOUBLE HEAD, POLE MOUNTED LUMINAIRE
		TRAFFIC SIGNAL PEDESTAL POLE
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, AND OPTICAL DETECTOR
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUMINAIRE, AND ILLUMINATE STREET NAME SIGN
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
SC	SC	SPLICE CABINET
●	⊘	TRAFFIC MANHOLE
		VIDEO CAMERA

SEE SHEET 7-2A FOR LOUISIANA QUANTITIES.

THIS PLAN SHEET SHALL REPLACE SHEET 7-2 IF ADDITIVE ALTERNATE #2 IS CONSTRUCTED.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
ASBUILTS ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

Coordinates shown hereon are modified (surface) N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000134961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').

The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL

KEVIN K. HARWICK NEW MEXICO 14360 REGISTERED PROFESSIONAL ENGINEER

1-8-2013

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DESIGNED BY	NKH	DATE 12-2012
	DRAWN BY	NKH	DATE 12-2012
	CHECKED BY	NKH	DATE 12-2012

Harwick Transportation Group, Inc.
1440 Camino Cerrito SE
Albuquerque, NM 87123
(808) 228-8776

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2376
COLORADO NEW MEXICO TEXAS

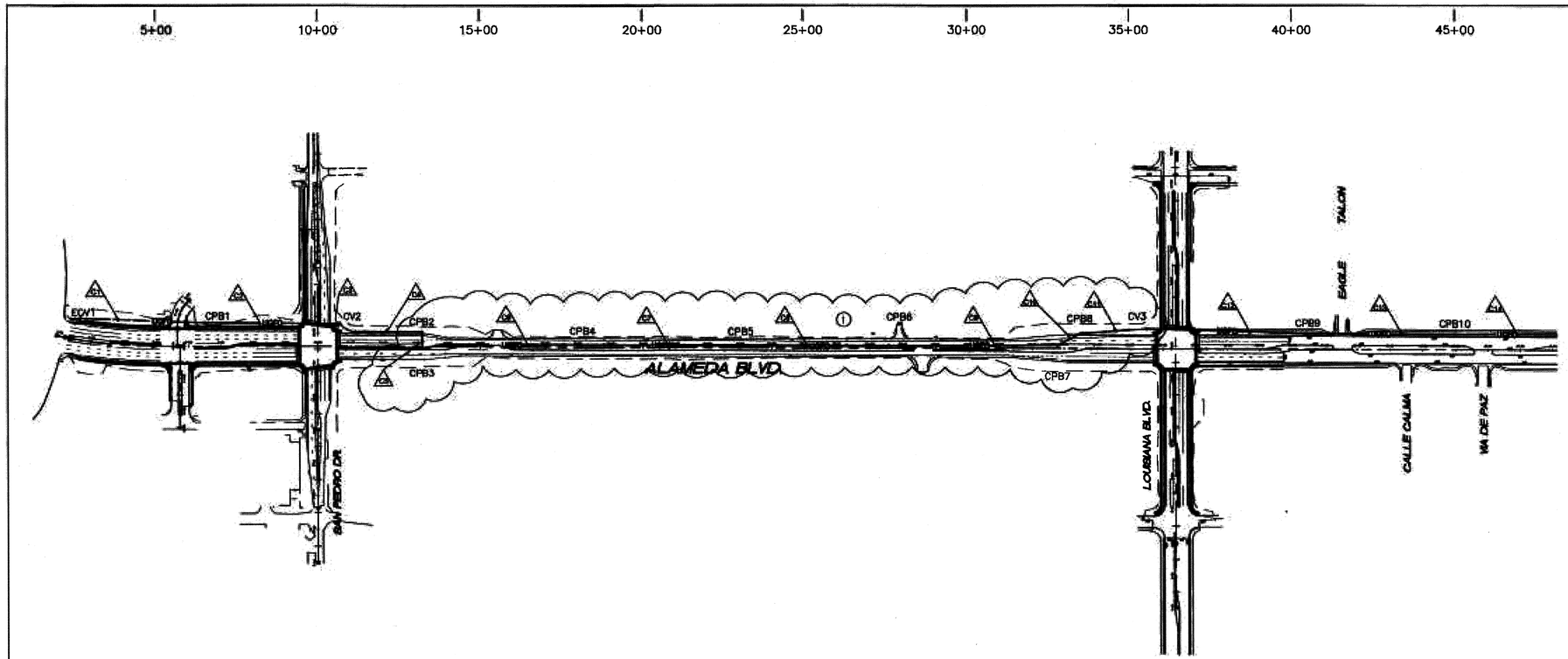
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

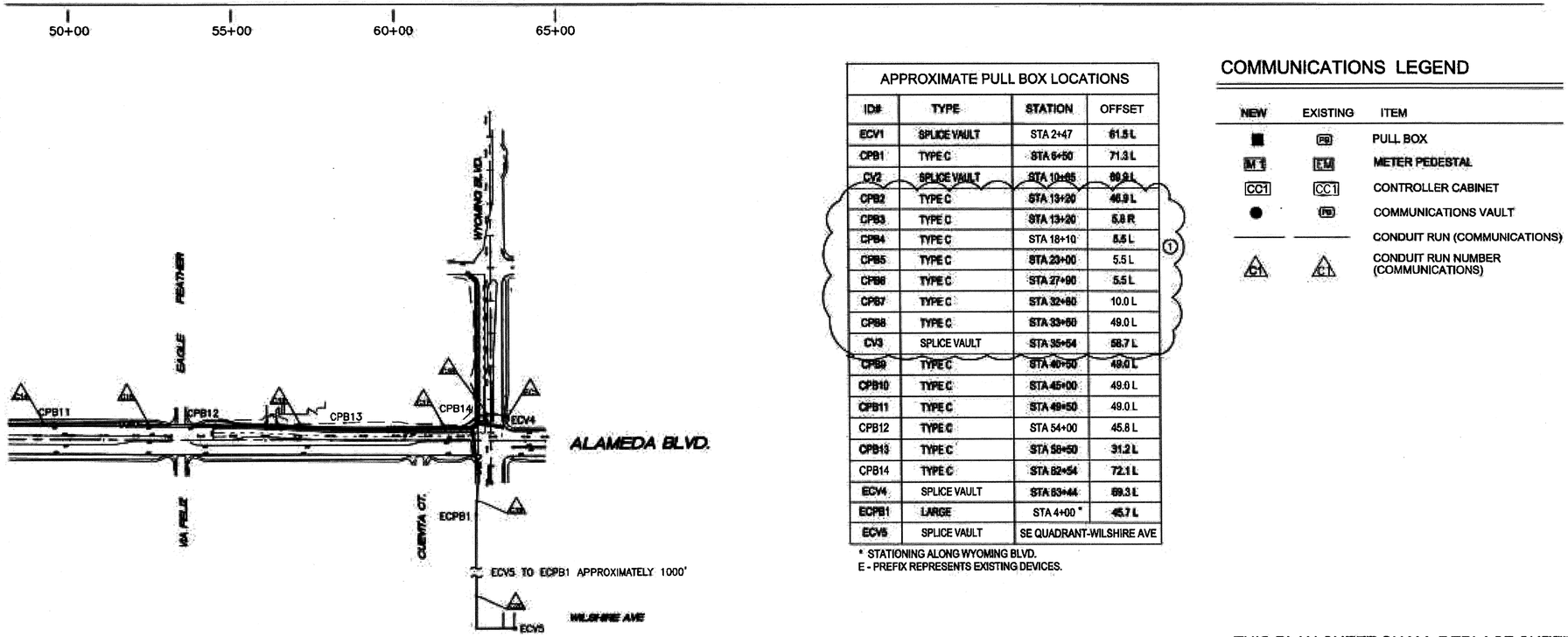
TITLE: ALAMEDA BLVD. WIDENING

TRAFFIC SIGNAL QUANTITIES

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	7-1	18-AA2	25





APPROXIMATE PULL BOX LOCATIONS			
ID#	TYPE	STATION	OFFSET
ECV1	SPLICE VAULT	STA 2+47	61.5 L
CPB1	TYPE C	STA 6+50	71.3 L
CV2	SPLICE VAULT	STA 10+65	66.9 L
CPB2	TYPE C	STA 13+20	46.9 L
CPB3	TYPE C	STA 13+20	5.8 R
CPB4	TYPE C	STA 18+10	5.5 L
CPB5	TYPE C	STA 23+00	5.5 L
CPB6	TYPE C	STA 27+90	5.5 L
CPB7	TYPE C	STA 32+80	10.0 L
CPB8	TYPE C	STA 33+60	49.0 L
CV3	SPLICE VAULT	STA 35+54	58.7 L
CPB9	TYPE C	STA 40+50	49.0 L
CPB10	TYPE C	STA 45+00	49.0 L
CPB11	TYPE C	STA 49+50	49.0 L
CPB12	TYPE C	STA 54+00	45.8 L
CPB13	TYPE C	STA 58+50	31.2 L
CPB14	TYPE C	STA 62+54	72.1 L
ECV4	SPLICE VAULT	STA 63+44	69.3 L
ECPB1	LARGE	STA 4+00 *	45.7 L
ECV5	SPLICE VAULT	SE QUADRANT-WILSHIRE AVE	

* STATIONING ALONG WYOMING BLVD.
E - PREFIX REPRESENTS EXISTING DEVICES.

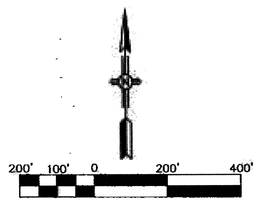
COMMUNICATIONS LEGEND

NEW	EXISTING	ITEM
■	PB	PULL BOX
M 1	EM	METER PEDESTAL
CC1	CC1	CONTROLLER CABINET
●	PB	COMMUNICATIONS VAULT
———	———	CONDUIT RUN (COMMUNICATIONS)
C1	C1	CONDUIT RUN NUMBER (COMMUNICATIONS)

THIS PLAN SHEET SHALL REPLACE SHEET 7-14 IF ADDITIVE ALTERNATE #2 IS CONSTRUCTED.

COMMUNICATION SYSTEM NOTES

1. ALL PULL BOX AND COMMUNICATION SPLICE VAULT LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD SHOULD CONFLICTS ARISE. ALL ADJUSTMENTS SHALL REQUIRE CONCURRENCE OF THE FIELD ENGINEER.
2. ALL PULL BOXES INSTALLED IN THE MEDIAN BETWEEN CPB3 (STA 13+90) AND CPB7 (STA 31+50) SHALL BE LOCATED AT THE BACK OF THE NORTH MEDIAN CURB. ALL CONDUIT WITHIN THAT MEDIAN SHALL BE LOCATED NO GREATER THAN 2.0 FEET FROM THE BACK OF CURB WITH MINIMUM COVER OF 36 INCHES.
3. ALL FIBER OPTIC CABLE SHALL RUN CONTINUOUSLY BETWEEN SPLICE VAULTS. FIBER OPTIC SPLICES SHALL NOT BE PERMITTED IN PULL BOXES. ALL FIBER OPTIC CABLE SHALL INCLUDE A #10 AWG LOCATOR WIRE WHICH IS INCIDENTAL TO CONSTRUCTION.
4. THE ALAMEDA BLVD COMMUNICATIONS CONDUIT SHALL TERMINATE AT THE COMMUNICATIONS SPLICE VAULT (ECV4) AT THE WYOMING BLVD INTERSECTION.
5. THE COMMUNICATIONS CONDUIT C19 WILL CONNECT FROM CPB14 TO AN EXISTING PULL BOX (ECPB1) IN THE SIDEWALK ON THE WEST SIDE OF WYOMING BLVD AT APPROXIMATELY STA 4+00. THE EXISTING PULL BOX LOCATION IS SHOWN SCHEMATICALLY ON THIS SHEET. THIS CONDUIT SHALL BE DIRECTIONALLY DRILLED.
6. COMMUNICATIONS CONDUIT C20 IS EXISTING CONDUIT, INCLUDING THREE PULL BOXES, FROM WYOMING BLVD STA 4+00 TO THE COMMUNICATIONS VAULT (ECV5) AT THE WILSHIRE AVE INTERSECTION.
7. THE EXISTING FIBER OPTIC COMMUNICATIONS SYSTEM IN WYOMING BLVD SHALL BE DISCONNECTED AT THE WYOMING BLVD–ALAMEDA BLVD COMMUNICATIONS VAULT (ECV4) AND AT THE WYOMING BLVD–WILSHIRE AVE COMMUNICATIONS VAULT (ECV5). NEW FIBER OPTIC CABLE SHALL BE REPLACED THROUGH EXISTING CONDUITS AND NEW CONDUITS – C18, C19 AND C20. THE COMMUNICATIONS SYSTEM SHALL BE DISCONNECTED FOR NO MORE THAN SEVEN (7) CONSECUTIVE DAYS.
8. THE NEW FIBER OPTIC CABLE WILL HAVE FULL FUSION RESPLICES AT THE WILSHIRE AVE AND ALAMEDA BLVD INTERSECTIONS WITH WYOMING BLVD. NO SPLICING OF THIS CABLE SHALL BE PERMITTED BETWEEN THE COMMUNICATIONS VAULTS. SHOULD THE UPSTREAM, DOWNSTREAM, OR 6 SMFO CABLE SPLICES BE DAMAGED, REPAIR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT THEIR EXPENSE.



Harwick Transportation Group, Inc.

SEC JOB # 110203

SMITH ENGINEERING

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTED BY COA DATE 7-14
FIELD STAKING BY COA DATE 7-14
DRAWINGS SMITH ENGINEERING DATE 7-14
CORRECTED BY SMITH ENGINEERING DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334861 around an origin of O.O. Elevations are NAVD 88, and are adjusted to the NGS Control Station "O-CIB, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE
11599 SURVEYING CONTROL, INC. 11/2010

ENGINEER'S SEAL
KENNETH E. HARWICK NEW MEXICO 14380 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS / REVISIONS	DESIGN	BY
1	11/6/2013	ADJUSTED PULL BOX LOCATIONS (CPB2 – CPB8), CV3	DESIGNED BY NKH	NKH
			DRAWN BY NKH	
			CHECKED BY NKH	
			DATE 12-2012	
			DATE 12-2012	
			DATE 12-2012	

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
ALAMEDA CORRIDOR COMMUNICATIONS LAYOUT

Design Review Committee | City Engineer Approval | Last Design Update | No. / Dsgn. / Yr. | No. / Dsgn. / Yr.

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-2 | Sheet 19-AA2 | Of 25

COMMUNICATIONS CONDUIT AND CONDUCTOR REQUIREMENTS

CONDUIT LENGTH, SIZE, AND TYPE						CONDUIT FILL BY CONDUCTOR LENGTH AND TYPE								
RUN ID	SIZE/LENGTH (FT) 1"	2"	3"	TYPE	LIMITS	6 SMFO (# @ FT)	96 SMFO (# @ FT)	BARE #10[1] (# @ FT)						
EXISTING CONDUIT (CONDUIT QUANTITIES NOT INCLUDED)														
C1			410	REC	ECV1 TO CPB1	1 @ 460		1 @ 415						
C2			425	REC	CPB1 TO CV2 (SAN PEDRO)	1 @ 475		1 @ 430						
C3			10	REC	CV2 TO CC1 (SAN PEDRO)	1 @ 25		1 @ 15						
C4			335	REC	CV2 TO CPB2			1 @ 340						
C5			60	REC	CPB2 TO CPB3			1 @ 55						
C6			490	REC	CPB3 TO CPB4			1 @ 425						
C7			490	REC	CPB4 TO CPB5			1 @ 465						
C8			490	REC	CPB5 TO CPB6			1 @ 465						
C9			490	REC	CPB6 TO CPB7			1 @ 465						
C10			100	REC	CPB7 TO CPB8			1 @ 60						
C11			210	REC	CPB8 TO CV3 (LOUISIANA)			1 @ 435						
C12			495	REC	CV3 TO CPB9			1 @ 495						
C13			460	REC	CPB9 TO CPB10			1 @ 465						
C14			460	REC	CPB10 TO CPB11			1 @ 465						
C15			460	REC	CPB11 TO CPB12			1 @ 465						
C16			460	REC	CPB12 TO CPB13			1 @ 465						
C17			420	REC	CPB13 TO CPB14			1 @ 425						
C18			110	REC	CPB14 TO ECV4		1 @ 160	1 @ 115						
EC1			(15)	REC	ECV4 TO CC1 (WYOMING)	(1 @ 25)		(1 @ 20)						
C19			305	REC	ECPB1 TO CPB14		1 @ 315	1 @ 310						
C20**			(1050)	REC	ECPB1 TO ECV5 (WILSHIRE)		1 @ 1130	1 @ 1070						
TOTAL			6680			25	1605	7945						

** INCLUDES EXISTING CONDUIT AND THREE PULL BOXES FROM WYOMING BLVD STA 4+00 TO THE COMMUNICATION VAULT AT WILSHIRE AVE.
1 - THESE QUANTITIES ARE INCLUDED FOR PLANNING PURPOSES ONLY AND THE ITEMS ARE INCIDENTAL TO CONSTRUCTION.

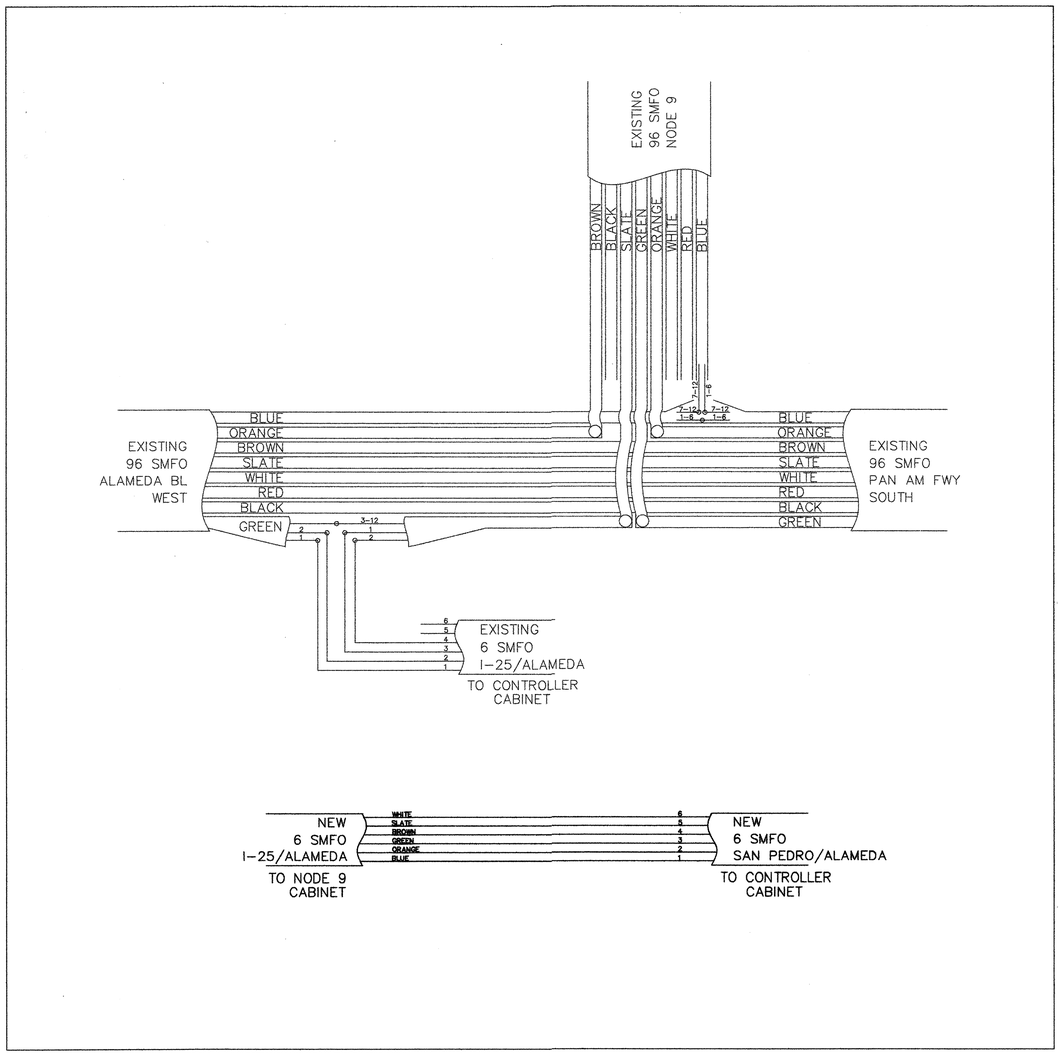
THIS PLAN SHEET SHALL REPLACE SHEET 7-15
IF ADDITIVE ALTERNATE #2 IS CONSTRUCTED.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
PAVING
STORM DRAIN
SIGNING & STRIPING
ELECTRICAL
COMPLETION BY
ACCEPTANCE BY
FINAL ACCEPTANCE BY
DRAWINGS
RECORDED BY
MICRO-FILM INFORMATION
RECORDED BY
NO.
DATE 7-14
DATE 7-14
DATE 7-14

EXISTING SPLICE CLOSURE (#91) – ECV1
I–25 (PAN AMERICAN FWY) @ ALAMEDA BLVD



SPLICE DETAIL NOTES:

1. THE DIAGRAM ON THIS SHEET IS SCHEMATIC. FOR FULL SPLICES, EACH OF THE BUFFER TUBES SHALL BE SPLICED BY INDIVIDUAL FIBER STRAND WITHIN THE TUBE.
2. THE FIBER OPTIC CABLE INSTALLATION FROM THE COMMUNICATIONS CABINET AT I–25/ALAMEDA (NODE 9) SHALL INCLUDE A 6 SMFO CABLE WITH A #10 LOCATOR WIRE. THIS IS A TEMPORARY CONNECTION AND SHALL REQUIRE FAN–OUT KITS AND PATCH CORDS FOR EACH CONTROL CABINET. FAN–OUT KITS AND PATCH CORDS SHALL BE APPROVED BY CITY OF ALBUQUERQUE TRAFFIC ENGINEERING AND ARE INCIDENTAL TO CONSTRUCTION.
3. THE PORT(S) FOR COMMUNICATION SYSTEM CONNECTION AT EACH NODE SHALL BE IDENTIFIED BY CITY OF ALBUQUERQUE TRAFFIC ENGINEERING PRIOR TO CONNECTION.
4. THE COMMUNICATIONS SYSTEM SHALL NOT BE DISCONNECTED TO INSTALL FIBER FOR THE SAN PEDRO DR INTERSECTION.
5. THE IDENTIFICATION NUMBER OF THE TRANSMIT AND RECEIVE STRANDS ON EACH OF THE CABLES IS ASSUMED BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THESE STRANDS PRIOR TO INSTALLATION AND NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OF ANY DISCREPANCY.
6. THE NEW COMMUNICATIONS SYSTEM CABLE SHALL BE TESTED TO VERIFY THAT CABLING AND SPLICES MEET CITY SPECIFICATIONS. BIDIRECTIONAL TESTING AT THE I–25/ALAMEDA BL AND SAN PEDRO DR/ALAMEDA BL INTERSECTIONS SHALL BE LIMITED TO THE NEW 6 SMFO CABLE. SEE CITY OF ALBUQUERQUE SPECIFICATIONS FOR DETAILS.

FIBER OPTIC BUFFER TUBE REFERENCE		
NUMBER	COLOR	CABLE
1	BLUE	6 AND 96 SMFO
2	ORANGE	6 AND 96 SMFO
3	GREEN	6 AND 96 SMFO
4	BROWN	6 AND 96 SMFO
5	SLATE	6 AND 96 SMFO
6	WHITE	6 AND 96 SMFO
7	RED	96 SMFO
8	BLACK	96 SMFO
9	YELLOW	96 SMFO
10	VIOLET	96 SMFO
11	ROSE	96 SMFO
12	AQUA	96 SMFO

COLOR ASSIGNMENTS ARE ESTIMATED AND SHALL BE VERIFIED WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.

COMMUNICATIONS LEGEND

NEW	EXISTING	ITEM
●	○	FUSION SPLICE

WARNING: LASER LIGHT IS INVISIBLE AND CAN DAMAGE YOUR EYES. VIEWING IT DIRECTLY DOES NOT CAUSE PAIN. THE IRIS OF THE EYE WILL NOT CLOSE VOLUNTARILY AS WHEN VIEWING A BRIGHT LIGHT; THEREFORE, SERIOUS DAMAGE TO THE RETINA IS POSSIBLE. NEVER LOOK DIRECTLY INTO A FIBER WHICH MAY BE ATTACHED TO A LASER SOURCE. SHOULD ACCIDENTAL EXPOSURE TO LASER LIGHT BE SUSPECTED, ARRANGE FOR AN IMMEDIATE EYE EXAM.

THIS PLAN SHEET SHALL REPLACE SHEET 7-16 IF ADDITIVE ALTERNATE #2 IS CONSTRUCTED.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING
SMFO	SINGLE MODE FIBER OPTIC

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7–14
ACCEPTANCE BY COA DATE 7–14
FIELD VERIFICATION BY COA DATE 7–14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7–14

MICRO–FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone,
NAD 83 and were derived by scaling State
Plane grid coordinates by the project average
combined factor of CF = 1.000334961 around
an origin of 0,0. Elevations are NAVD 88, and
are adjusted to the NGS Control Station "10–C18,
1985" (published elevation = 5222.090').

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

The coordinates and elevations are US Survey Feet.

ENGINEERS SEAL

KEITH K. HARWICK NEW MEXICO 14360 REGISTERED PROFESSIONAL ENGINEER
1-8-2013

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY NKH DATE 12–2012
DRAWN BY NKH DATE 12–2012
CHECKED BY NKH DATE 12–2012

Harwick Transportation Group, Inc.
1440 Camino Cerrito SE
Albuquerque, NM 87123
(505) 228–9776

SEC JOB # 110203

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Fax: (505) 884-2376
COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

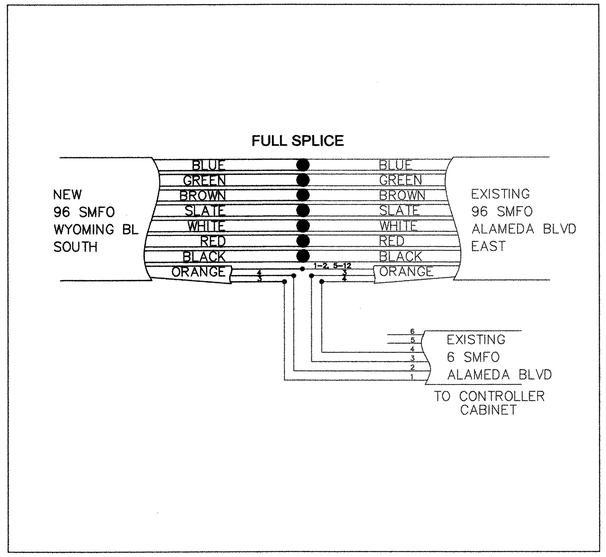
ALAMEDA COMMUNICATION SYSTEM - SPLICE DETAILS 1

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

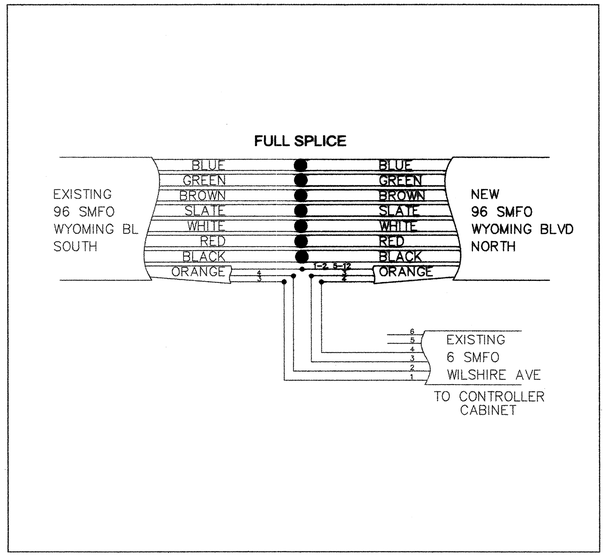
No. / Day / Yr.	No. / Day / Yr.

City Project No. 7663.91
Zone Map No. C–18/C–19
Drawing No. 7-4
Sheet 21–AA2 Of 25

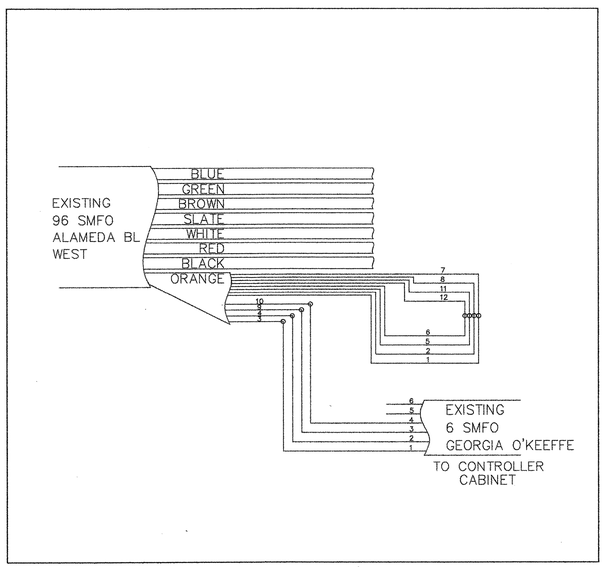
EXISTING SPLICE CLOSURE (#103) – ECV4
WYOMING BLVD @ ALAMEDA BLVD



EXISTING SPLICE CLOSURE (#104) – ECV5
WYOMING BLVD @ WILSHIRE AVE



EXISTING SPLICE CLOSURE (#112)
ALAMEDA BLVD @ GEORGIA O'KEEFFE



THIS INTERSECTION DIAGRAM FOR INFORMATION ONLY.

WARNING: LASER LIGHT IS INVISIBLE AND CAN DAMAGE YOUR EYES. VIEWING IT DIRECTLY DOES NOT CAUSE PAIN. THE IRIS OF THE EYE WILL NOT CLOSE VOLUNTARILY AS WHEN VIEWING A BRIGHT LIGHT; THEREFORE, SERIOUS DAMAGE TO THE RETINA IS POSSIBLE. NEVER LOOK DIRECTLY INTO A FIBER WHICH MAY BE ATTACHED TO A LASER SOURCE. SHOULD ACCIDENTAL EXPOSURE TO LASER LIGHT BE SUSPECTED, ARRANGE FOR AN IMMEDIATE EYE EXAM.

SPLICE DETAIL NOTES

1. THE DIAGRAMS ON THIS SHEET ARE SCHEMATIC. FOR FULL SPLICES, EACH OF THE BUFFER TUBES SHALL BE SPLICED BY INDIVIDUAL FIBER STRAND WITHIN THE TUBE.
2. THE EXISTING FIBER OPTIC COMMUNICATIONS SYSTEM IN WYOMING BLVD SHALL BE DISCONNECTED AT THE WYOMING BLVD–ALAMEDA BLVD COMMUNICATIONS VAULT (ECV4) AND THE WYOMING BLVD–WILSHIRE AVE COMMUNICATIONS VAULT (ECV5). THE FIBER OPTIC CABLE SHALL BE REMOVED BETWEEN THESE TWO VAULTS AND NEW FIBER OPTIC CABLE REPLACED THROUGH NEW AND EXISTING CONDUITS – C18, C19, AND C20. (SEE SHEET 7–14.)
3. THE NEW 96 SMFO FIBER OPTIC CABLE SHALL BE FULLY RESPLICED AT THE WILSHIRE AVE AND ALAMEDA BLVD INTERSECTIONS. NO SPLICING OF THIS CABLE SHALL BE PERMITTED BETWEEN THESE COMMUNICATIONS VAULTS.
4. THE COMMUNICATIONS SYSTEM SHALL BE DISCONNECTED FOR NO MORE THAN SEVEN (7) CONSECUTIVE DAYS.
5. THE IDENTIFICATION NUMBER OF THE TRANSMIT AND RECEIVE STRANDS ON EACH OF THE CABLES IS ASSUMED BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THESE STRANDS PRIOR TO INSTALLATION AND NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OF ANY DISCREPANCY.
6. THE COMMUNICATIONS SYSTEM SHALL BE TESTED TO VERIFY THAT CABLING AND SPLICES MEET CITY SPECIFICATIONS. BIDIRECTIONAL TESTING SHALL BE CONDUCTED FOR ALL SPLICED FIBERS FROM UP TO THREE VAULT LOCATIONS. THE FOLLOWING VAULT LOCATIONS ARE ESTIMATED AND SUBJECT TO CHANGE PER CITY OF ALBUQUERQUE TRAFFIC ENGINEERING:
   - PASEO DEL NORTE/WYOMING BLVD
   - ALAMEDA BLVD/GEORGIA O'KEEFFE
   - ALAMEDA BLVD/I–25 NODE CABINET
7. TEST CONNECTORS SHALL BE INSTALLED ON THE FIBER STRANDS OF THE SEVEN (7) UNUSED BUFFER TUBES AT THE GEORGIA O'KEEFFE INTERSECTION FOR TESTING. THESE TEST CONNECTORS ARE INCIDENTAL TO THE COMMUNICATION SYSTEM TESTING.

FIBER OPTIC BUFFER TUBE REFERENCE

NUMBER	COLOR	CABLE
1	BLUE	6 AND 96 SMFO
2	ORANGE	6 AND 96 SMFO
3	GREEN	6 AND 96 SMFO
4	BROWN	6 AND 96 SMFO
5	SLATE	6 AND 96 SMFO
6	WHITE	6 AND 96 SMFO
7	RED	96 SMFO
8	BLACK	96 SMFO
9	YELLOW	96 SMFO
10	VIOLET	96 SMFO
11	ROSE	96 SMFO
12	AQUA	96 SMFO

COLOR ASSIGNMENTS ARE ESTIMATED AND SHALL BE VERIFIED WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING.

COMMUNICATIONS LEGEND

NEW	EXISTING	ITEM
●	○	FUSION SPLICE

THIS PLAN SHEET SHALL REPLACE SHEET 7-17 IF ADDITIVE ALTERNATE #2 IS CONSTRUCTED.

ABBREVIATIONS

MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE
CSCC	COLORED SINGLE CONDUCTOR CABLE
DLLIC	DETECTOR LOOP LEAD IN CABLE
PS	PULL STRING
SMFO	SINGLE MODE FIBER OPTIC

Harwick Transportation Group, Inc.
1440 Camino Cerrito SE
Albuquerque, NM 87123
(505) 228-9776

SEC JOB # 110203

SMITH ENGINEERING consultant
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2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110
Phone: (505) 884-0700 Fax: (505) 884-2376
COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING

ALAMEDA COMMUNICATION SYSTEM - SPLICE DETAILS 2

Design Review Committee: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED JAN 11 2013 CITY ENGINEER
Last Design Update

City Project No. 7663.91 | Zone Map No. C-18/C-19 | Drawing No. 7-5 | Sheet 22-AA2 | Of 25

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0. Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090').
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

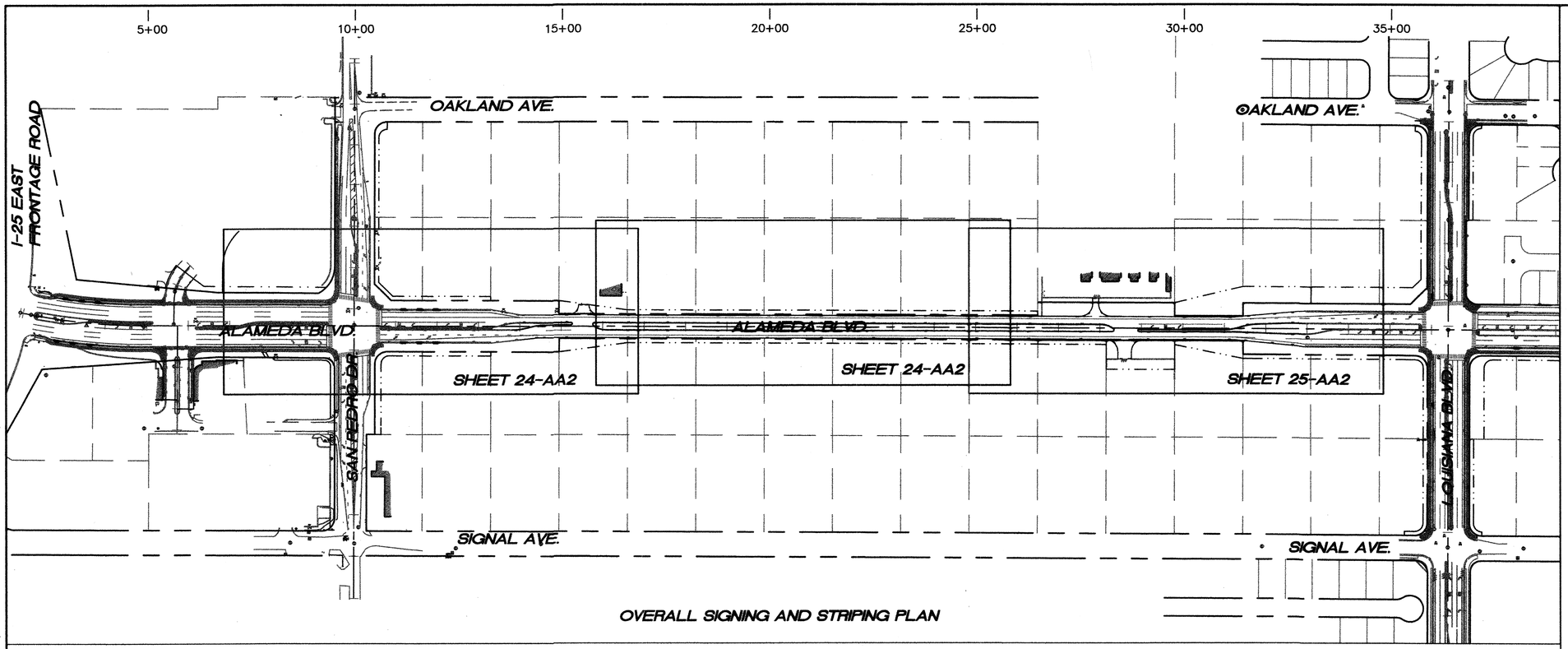
NO.	BY	DATE
11599	SURVEYING CONTROL, INC.	11/2010

ENGINEERS SEAL
KEVIN K. HARWICK NEW MEXICO 14380 REGISTERED PROFESSIONAL ENGINEER
1-8-2013

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY NKH DATE 12-2012	
		DRAWN BY NKH DATE 12-2012	
		CHECKED BY NKH DATE 12-2012	

No. / Bay / Yr.	No. / Bay / Yr.



OVERALL SIGNING AND STRIPING PLAN

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\8-1 AA2 OVERALL SIGNING & STRIPING.dwg

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.

N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid

Elevations are NAVD 88, and are adjusted to the

NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96

The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
AS-BUILTS COMPILED & CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL

DOUGLAS L. ARMENTA, NEW MEXICO, 9271, REGISTERED PROFESSIONAL ENGINEER

01-08-13

NO.	DATE	REMARKS
		DESIGN
		DESIGNED BY DLA DATE 12-2012
		DRAWN BY SEC DATE 12-2012
		CHECKED BY DLA DATE 12-2012

N

150' 75' 0 150' 300'

SCALE: 1" = 150'

SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2376
NEW MEXICO TEXAS

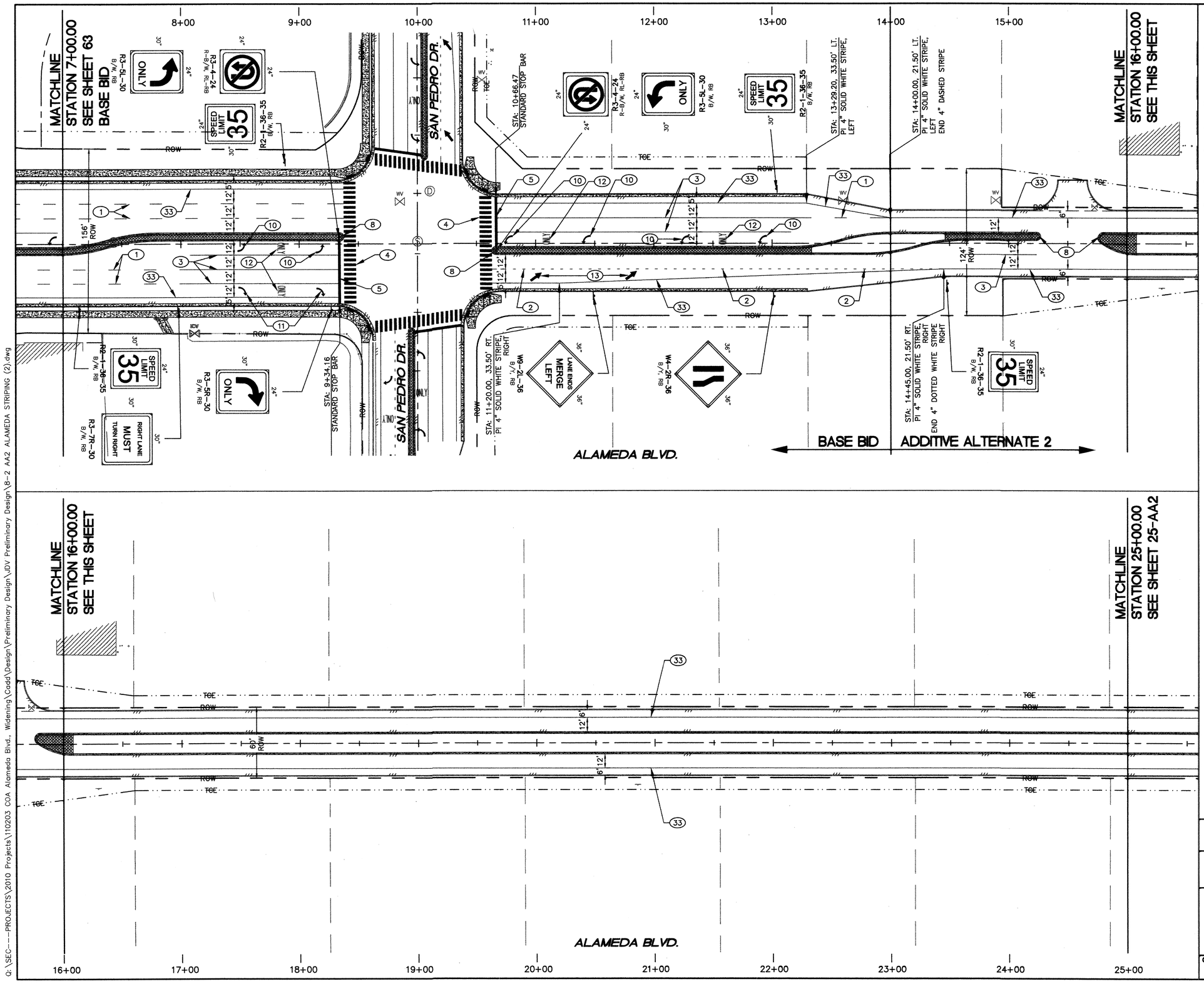
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

OVERALL SIGNING & STRIPING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-1	23-AA2	25



GENERAL NOTES

1. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25 INCHES (MAXIMUM) AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.
2. ALL PAVEMENT MARKINGS TO BE REFLECTORIZED PLASTIC.
3. ALL GORE AREA STRIPING SHALL BE AT 30° FROM THE DIRECTION OF TRAVEL.
4. ALL STRIPING SHALL BE APPLIED AS DIRECTED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. TRAFFIC SIGNAL TO BE INSTALLED AT SAN PEDRO DRIVE AND ALAMEDA BOULEVARD.
6. PAINTING OF CURBS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

KEYED NOTES

(1) 4" DASHED WHITE STRIPE. SEE SHEET 71 BASE BID FOR DETAILS.
(2) 4" DOTTED WHITE STRIPE. SEE SHEET 71 BASE BID FOR DETAILS.
(3) 4" SOLID WHITE STRIPE.
(4) 24" SOLID WHITE STRIPE. SEE SHEET 71 BASE BID FOR DETAILS.
(5) 24" SOLID WHITE STRIPE.
(8) PAINT MEDIAN CURB NOSE YELLOW.
(10) INSTALL "LEFT TURN" ARROW. SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71 BASE BID.
(11) INSTALL "RIGHT TURN" ARROW. SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71 BASE BID.
(12) INSTALL "ONLY". SEE TYPICAL STRIPING PATTERN DETAIL SHEET 71 BASE BID.
(13) INSTALL "THRU" ARROW.
(33) 6" SOLID WHITE STRIPE

40' 20' 0 40' 80'
SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING Company
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2391 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87110
Phone: (505) 884-2500
Fax: (505) 884-2376
NEW MEXICO TEXAS

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the
NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTOR'S ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
MARKUPS ENTERED, CHECKED, BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY DATE

ENGINEERS SEAL
DOUGLAS L. ANDREW
NEW MEXICO 17171
REGISTERED PROFESSIONAL ENGINEER
01-03-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DLA	DATE 12-2012
		DRAWN BY SEC	DATE 12-2012
		CHECKED BY DLA	DATE 12-2012

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

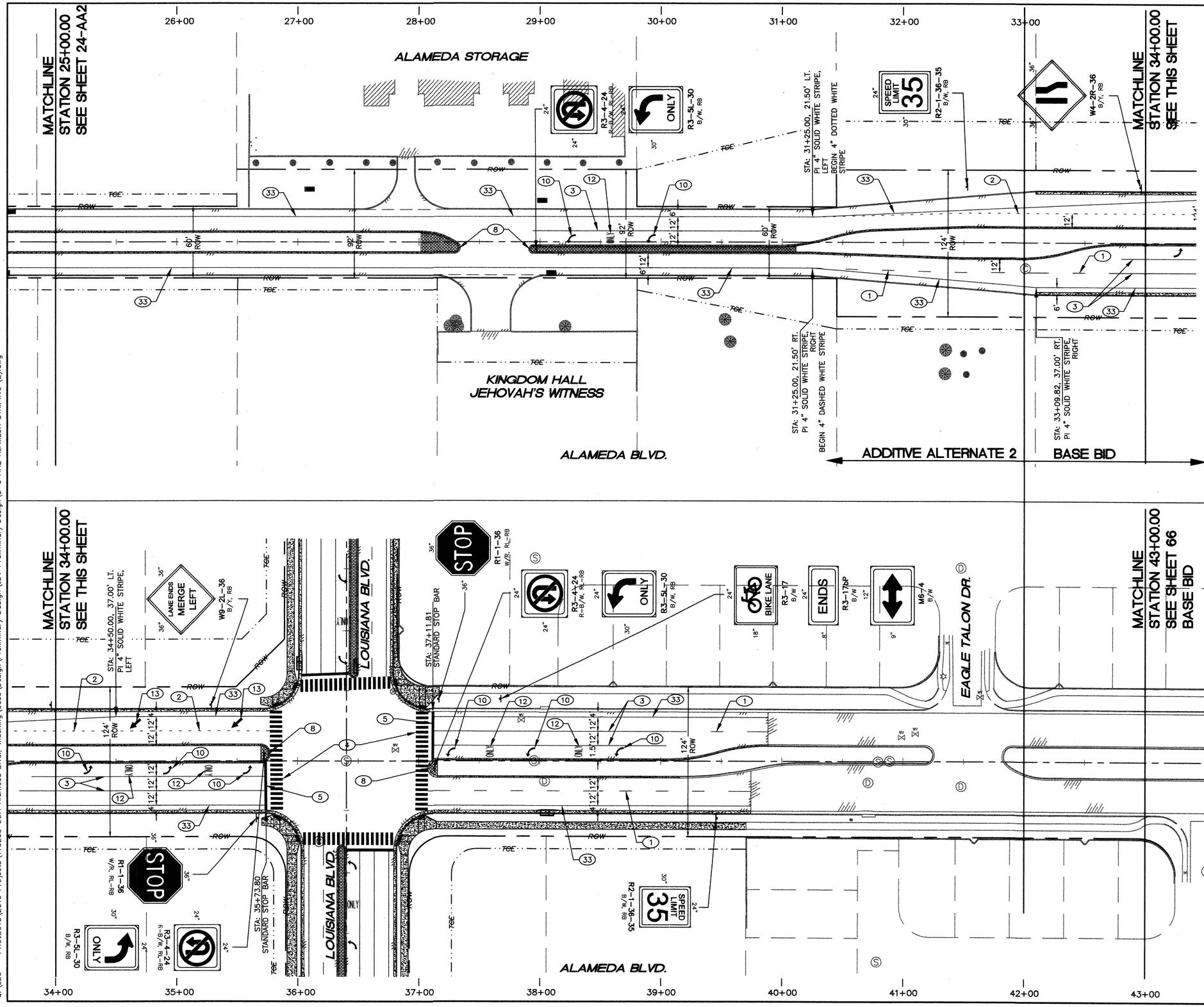
TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

ALAMEDA SIGNING & STRIPING - STA 7+00 TO STA 25+00

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE	APPROVED JAN 11 2013 CITY ENGINEER			

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-2	24-AA2	25

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd. Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\8-2 AA2 ALAMEDA STRIPING (2).dwg



GENERAL NOTES

1. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25 INCHES (MAXIMUM) AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.
2. ALL PAVEMENT MARKINGS TO BE REFLECTORIZED PLASTIC.
3. ALL GORE AREA STRIPING SHALL BE AT 30° FROM THE DIRECTION OF TRAVEL.
4. ALL STRIPING SHALL BE APPLIED AS DIRECTED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. TRAFFIC SIGNAL TO BE INSTALLED AT SAN PEDRO DRIVE AND ALAMEDA BOULEVARD.
6. PAINTING OF CURBS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

KEYED NOTES

(1) 4" DASHED WHITE STRIPE. SEE SHEET 71 BASE BID FOR DETAILS.
(2) 4" DOTTED WHITE STRIPE. SEE SHEET 71 BASE BID FOR DETAILS.
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(13) INSTALL "THRU" ARROW.
(33) 6" SOLID WHITE STRIPE

40' 20' 0 40' 80'
SCALE: 1" = 40'

SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS — NEW MEXICO — TEXAS
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2391 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0700 Fax: (505) 884-2376

AS BUILT INFORMATION

CONTRACTOR: RMCI, INC.
WORK STAKED BY: PATTERN SURVEYS, INC. DATE 7-14
INSPECTOR'S DISTANCE BY: COA DATE 7-14
FIELD VERIFICATION BY: SMITH ENGINEERING CO. DATE 7-14
CORRECTED BY ENGINEERING: DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY: DATE
NO.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

BENCH MARKS

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334981 around an origin of 0,0.
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'), N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

ENGINEER'S SEAL — DOUGLAS L. ANDREW — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER — 01-08-13

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE 12-2012	DESIGNED BY DLA	
	DATE 12-2012	DRAWN BY SEC	
	DATE 12-2012	CHECKED BY DLA	

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING - ADDITIVE ALTERNATE 2

ALAMEDA SIGNING & STRIPING - STA 25+00 TO STA 43+00

Design Review Committee: APPROVED JAN 11 2013 CITY ENGINEER
City Engineer Approval: APPROVED JAN 11 2013 DESIGN REVIEW COMMITTEE
Last Design Update: No. / Day / Yr.
Last Construction Update: No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	8-3	25-AA2	25

Q:\SEC---PROJECTS\2010 Projects\110203 COA Alameda Blvd., Widening\Cadd\Design\Preliminary Design\JDV Preliminary Design\8-3 AA2 ALAMEDA STRIPING (2).dwg

ESTIMATED QUANTITIES

ALAMEDA BOULEVARD WIDENING - 7663.91

I-25 TO WYOMING

ITEM ID #	ITEM DESCRIPTION	EST. QTY	UNITS
425.004	TYPE C PULL BOX	14	EA
425.600	SPLICE VAULT	2	EA
428.210	CCTV CAMERA	1	EA
435.006	FIBER OPTIC CABLE 6 SMFO & TRACER WIRE	300	LF
435.096	FIBER OPTIC CABLE 96 SMFO & TRACER WIRE	9,400	LF
435.600	SPLICE CLOSURE WITH CABLE SPLICE	3	EA
435.610	EXISTING SPLICE CLOSURE CABLE RESPLICE	1	EA
435.650	RACK MOUNTED CONNECTOR HOUSING (96), (SC)	1	EA
435.702	MANAGED FIELD ETHERNET SWITCH	2	EA

ESTIMATED QUANTITIES BY LOCATION

ALAMEDA BOULEVARD WIDENING - 7663.91

I-25 TO WYOMING

-- ALAMEDA BOULEVARD & I-25

NODE CABINET

1 RACK MOUNTED CONNECTOR HOUSING
2 FIBER OPTIC PATCH CORDS (INCIDENTAL TO FIBER CABLE)

-- ALAMEDA BLVD & SAN PEDRO DR

SIGNAL CABINET

100 6 SMFO CABLE AND TERMINATION
2 FIBER OPTIC PATCH CORDS (INCIDENTAL TO FIBER CABLE)
1 MANAGED FIELD ETHERNET SWITCH
1 SPLICE VAULT
1 SPLICE CLOSURE

-- ALAMEDA BLVD & LOUISIANA BLVD

SIGNAL CABINET

1 CCTV CAMERA - NW CORNER MASTARM
100 6 SMFO CABLE AND TERMINATION
2 FIBER OPTIC PATCH CORDS (INCIDENTAL TO FIBER CABLE)
1 MANAGED FIELD ETHERNET SWITCH
1 SPLICE VAULT
1 SPLICE CLOSURE

-- ALAMEDA BLVD & WYOMING BLVD

SIGNAL CABINET

100 6 SMFO CABLE AND TERMINATION
1 SPLICE CLOSURE

-- WYOMING BLVD & WILSHIRE AVE

SIGNAL CABINET

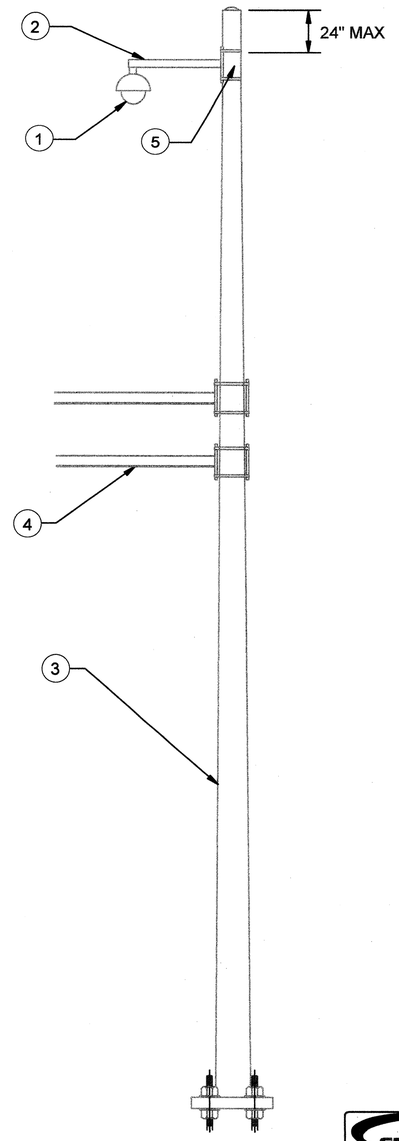
1 EXISTING SPLICE CLOSURE CABLE RESPLICE

-- WYOMING BLVD & OSUNA RD

NODE CABINET

1 FIBER OPTIC PATCH CORDS (INCIDENTAL TO FIBER CABLE)

CCTV CAMERA DETAILS



NTS

1. DOME CCTV UNIT
2. MOUNTING ASSEMBLY
3. EX. TRAFFIC SIGNAL POLE
4. EX. TRAFFIC SIGNAL MAST ARM
5. CABLE STRAIN RELIEF (NOT SHOWN)

CCTV INSTALLATION NOTES:

1. CCTV MOUNTING ASSEMBLY SHALL BE SECURED WITH A MINIMUM OF 2 STAINLESS STEEL BANDING STRAPS. THE MOUNTING ASSEMBLY OR ARM SHALL BE POINTED TOWARD CENTER OF INTERSECTION.
2. CCTV MOUNTING ON MAST ARM SHALL INCLUDE A 1 1/2" NPT FITTING BANDED TO THE END OF THE MAST ARM.
3. THE CABLING SHALL BE CONTAINED INSIDE OF THE POLE. A HOLE SHALL BE DRILLED IN THE POLE FOR CABLING TO EXIT AND FEED THROUGH THE MOUNTING ASSEMBLY. THE HOLE SHALL BE SEALED TO PREVENT WATER FROM ENTERING THE POLE. CABLING WITHIN THE POLE SHALL HAVE A MEANS OF CABLE SUPPORT AT THE TOP TO PREVENT THE CABLE TENSION FROM PULLING ON THE EQUIPMENT.
4. ALL WORK TO BE PERFORMED IN THE CABINET SHALL BE COORDINATED AND SUPERVISED BY THE CITY.
5. CCTV CAMERA SHALL BE MOUNTED WITHIN ONE DEGREE OF LEVEL ON BOTH HORIZONTAL AXES.
6. ALL CABLING SHALL RUN UNSPLICED FROM THE CCTV CAMERA TO THE CONTROL CABINET.

LEE ENGINEERING
8220 SAN PEDRO DRIVE NE
SUITE 150
ALBUQUERQUE, NM 87113
505/338-0988 FAX 505/338-0989

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTED BY COA DATE 7-14
ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY SMITH ENGINEERING CO. DATE 7-14
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc	11/2010

ENGINEERS SEAL
JOSEPH A. NORBY NEW MEXICO 12455 REGISTERED PROFESSIONAL ENGINEER
12-4-2013

REVISIONS

NO.	DATE	REMARKS	BY
DESIGNED BY	J. NORBY	DATE 11-2013	
DRAWN BY	J. NORBY	DATE 11-2013	
CHECKED BY	P. BARRICKLOW	DATE 11-2013	

SEC JOB # 110203

SMITH ENGINEERING consultants
ALBUQUERQUE TECHNICAL VENTURE CENTER
323 San Pedro Dr. NE
Building 4, Suite 200
Albuquerque, NM 87108
Phone (505) 884-0700
Fax (505) 884-0276
COLORADO NEW MEXICO TEXAS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

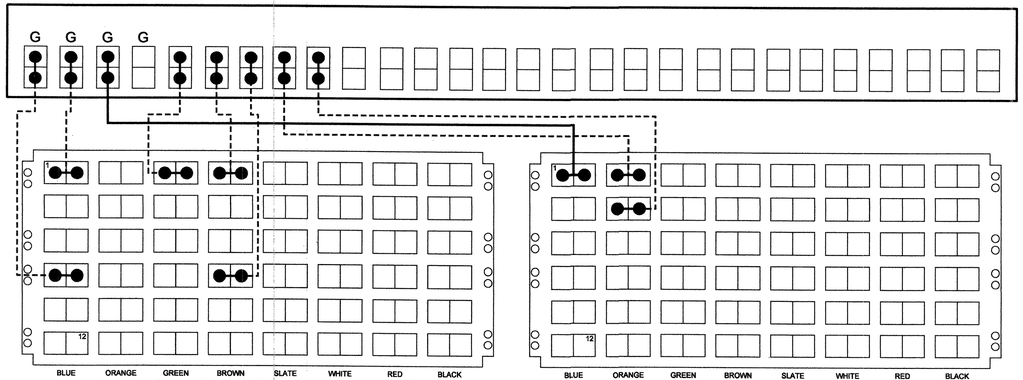
TITLE: ALAMEDA BLVD. WIDENING
ITS COMMUNICATION DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19		1	5

NODE TERMINATION DETAILS

EXISTING NODE 1
WYOMING BLVD & OSUNA RD



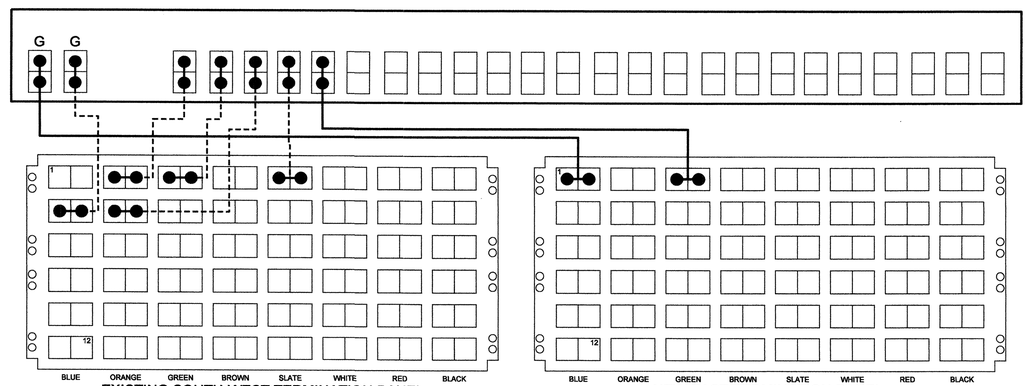
EXISTING SOUTH-WEST TERMINATION PANEL
WYOMING SOUTH, OSUAN WEST

EXISTING NORTH TERMINATION PANEL
WYOMING NORTH TO ALAMEDA

NODE 1 - WYOMING & OSUNA		
TERMINATED FIBERS	COMMUNICATION CONNECTIONS SOUTH-WEST	COMMUNICATION CONNECTIONS NORTH
BLUE / 1,2	NODE 2	**NEW** - NODE 9
BLUE / 7,8	WYOMING TOC	
BLUE / 3-6		
BLUE / 9-12		
ORANGE / 1,2		LOCAL COMM (2)
ORANGE / 3,4		LOCAL COMM (3)
ORANGE / 5,6		
ORANGE / 7,8		
ORANGE / 9,10		
ORANGE / 11,12		
GREEN / 1,2	LOCAL COMM (1)	*FUTURE REDUNDANCY TO NODE 9*
GREEN / 3,4		
GREEN / 5,6		
GREEN / 7,8		
GREEN / 9,10		
GREEN / 11,12		
BROWN / 1,2	REDUNDANCY TO TOC	
BROWN / 7,8	REDUNDANCY TO TOC	
BROWN / 3-6, 9-12		

CHANNEL ASSIGNMENT TABLE			
CHANNEL	LOCAL COMM. (1)	LOCAL COMM. (2)	LOCAL COMM. (3)
ACTIVE NETWORK	NODE 1	NODE 1	NODE 1
FIBER PAIRS	GREEN 1,2	ORANGE 1,2	ORANGE 3,4
REDUNDANT NETWORK	NODE 2	NODE 9	NODE 9
REDUNDANT PAIRS	GREEN 1,2	ORANGE 1,2	ORANGE 3,4
CORRIDOR	**OSUNA RD**	**WYOMING BLVD**	**WYOMING BLVD**
INTERSECTIONS	SEAGULL ST	SPAIN RD	CARMEL AVE
	SAN PEDRO DR	SYCAMORE PLAZA	WILSHIRE AVE
	WYOMING BLVD	ACADEMY RD	ALAMEDA BLVD
		BURLISON DR	GEORGIA O'KEEFE DR
		SAN ANTONIO DR	
		SAN FRANCISCO RD	

EXISTING NODE 9
ALAMEDA BLVD & I-25 NB



EXISTING SOUTH-WEST TERMINATION PANEL
I-25 SOUTH, ALAMEDA WEST

NEW EAST TERMINATION PANEL
ALAMEDA EAST TO WYOMING

NODE 9 - ALAMEDA/I-25		
TERMINATED FIBERS	COMMUNICATION CONNECTIONS SOUTH-WEST PANEL	COMMUNICATION CONNECTIONS EAST PANEL
BLUE / 1,2		**NEW** - NODE 1
BLUE / 3,4	NODE 2 VIA BLUE 9,10	
BLUE / 5,6		
BLUE / 7-12	*FUTURE TO NODE 8 VIA ALAMEDA*	
ORANGE / 1,2	LOCAL COMM (2)	*POTENTIAL REDUNDANT LOCAL COMM TO NODE 1*
ORANGE / 3,4	OLD COMM - NOT IN SERVICE	
ORANGE / 5,6		
ORANGE / 7,8		
ORANGE / 9,10		
ORANGE / 11,12		
GREEN / 1,2	LOCAL COMM (3)	**NEW** - LOCAL COMM (4)
GREEN / 3,4		
GREEN / 5,6		
GREEN / 7,8		
GREEN / 9,10		
GREEN / 11,12		
SLATE / 1,2	LOCAL COMM (1)	
SLATE / 7,8	REDUNDANT LOCAL COMM. (1)	
SLATE / 3-6, 9-12		

CHANNEL ASSIGNMENT TABLE				
CHANNEL	LOCAL COMM. (1)	LOCAL COMM. (2)	LOCAL COMM. (3)	LOCAL COMM. (4)
ACTIVE NETWORK	NODE 9	NODE 9	NODE 9	NODE 9
FIBER PAIRS	GREEN 1,2 VIA SLATE 1,2	ORANGE 1,2	GREEN 1,2	GREEN 1,2
REDUNDANT NETWORK	*FUTURE NODE 8*	N/A	N/A	NODE 1
REDUNDANT PAIRS				GREEN 1,2
CORRIDOR	**ALAMEDA BOULEVARD**	**I-25**	**PASEO DEL NORTE**	**ALAMEDA BOULEVARD**
INTERSECTIONS	ALAMEDA PKWY	PASEO DEL NORTE / I25 NB	SAN PEDRO DR	SAN PEDRO DR
	HORIZON BLVD	PASEO DEL NORTE / I25 SB	LOUISIANA BLVD	LOUISIANA BLVD
	BALLOON MUSEUM DR	SAN ANTONIO DR	WYOMING BLVD	
	JEFFERSON ST	ELLISON ST	DMS / VDS	
	SAN MATEO BLVD	JEFFERSON ST/PDN	BARSTOW ST	
	I-25 SB		VENTURA ST	
	I-25 NB		HOLBROOK ST	
			EUBANK CCTV	

* ALL PATCH CORDS SHALL BE CLEARLY LABELED AND ORGANIZED WITH PORT # AND FIBER COLOR/#.

EXISTING PATCH CORDS

NEW PATCH CORDS

SEC JOB # 110203

SMITH ENGINEERING COMPANY — SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2301 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone (505) 884-0672 Fax (505) 884-0282
COLORADO NEW MEXICO TEXAS

LEE ENGINEERING
8220 SAN PEDRO DRIVE NE
SUITE 150
ALBUQUERQUE, NM 87113
505/338-0988 FAX 505/338-0989

AS BUILT INFORMATION

CONTRACTOR RMCI, INC.

WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTIONS ACCEPTANCE BY	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY — DATE

NO.

BENCH MARKS

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc	1/2010

ENGINEERS SEAL

JOSEPH A. NORBY — NEW MEXICO — 15396 — PROFESSIONAL ENGINEER
12-9-2015

NO.	DATE	REMARKS	DESIGNED BY	DATE
		REVISIONS	J. NORBY	11-2013
		DESIGN	DRAWN BY J. NORBY	DATE 11-2013
			CHECKED BY P. BARRICKLOW	DATE 11-2013

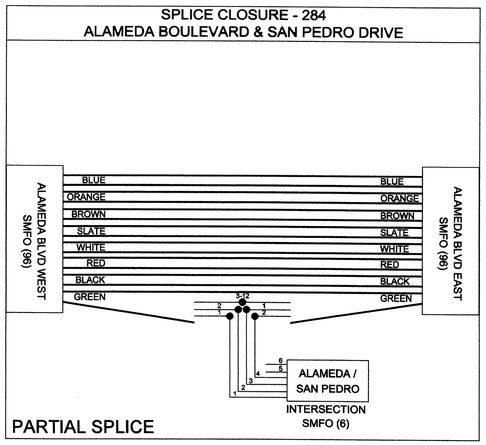
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

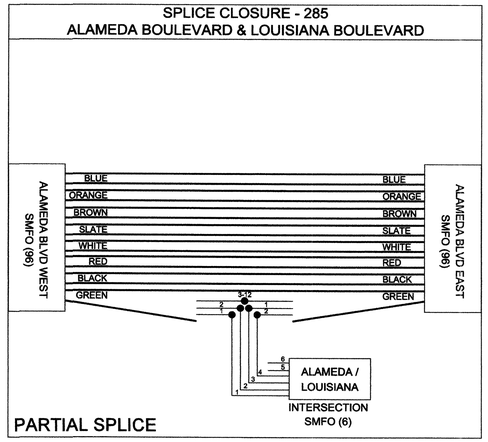
TITLE:
ALAMEDA BLVD. WIDENING
ITS COMMUNICATION DETAILS

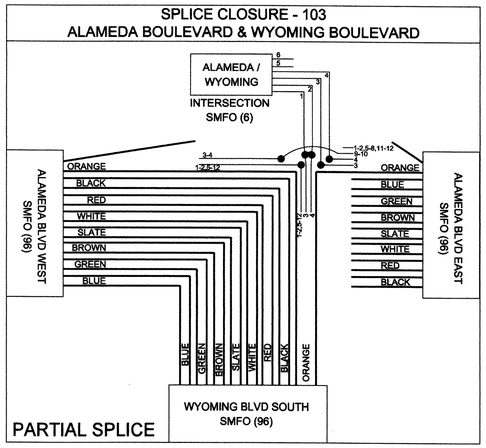
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

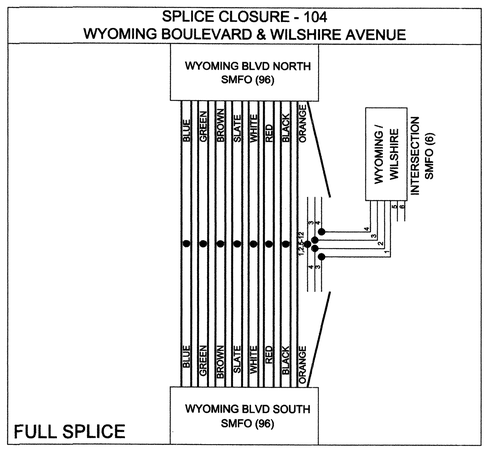
City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19		2	5

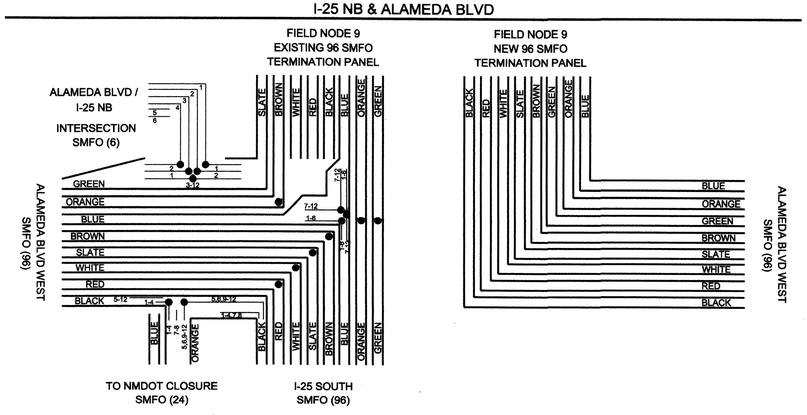
FIBER SPLICE DETAILS



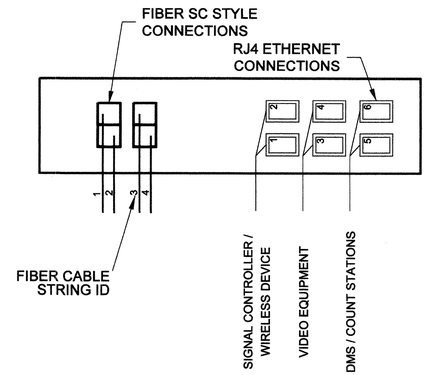








TYPICAL FIELD ETHERNET SWITCH CONFIGURATION



NOTES:

1. DETAIL DEPICTS TYPICAL CONNECTIONS, THE PORTS ON THE SWITCHES MAY VARY IN NUMBER.
2. SEE FIBER SHEETS FOR ADDITIONAL PATCH CORDS TO BE INSTALLED

FIBER TESTING LIMITS:

BLUE 1-12	NODE 9 TO NODE 1
ORANGE 1-2	NODE 9 TO SAN FRANCISCO
ORANGE 3-4	NODE 9 TO WYOMING
ORANGE 5-12	NODE 9 TO NODE 1
GREEN 1-2	NODE 9 TO SAN PEDRO
GREEN 3-12	NODE 9 TO NODE 1
BROWN 1-12	NODE 9 TO NODE 1
SLATE 1-12	NODE 9 TO WYOMING/PDN VAULT
WHITE 1-12	NODE 9 TO WYOMING/PDN VAULT
RED 1-12	NODE 9 TO NODE 1
BLACK 1-12	NODE 9 TO NODE 1

SEC JOB # 110203

SMITH ENGINEERING CONSULTANTS
SOLUTIONS FOR TODAY, VISION FOR TOMORROW
3301 San Pedro Dr. NE Building 4, Suite 201 Albuquerque, NM 87110 Phone (505) 884-3720 Fax (505) 884-4216
COLORADO NEW MEXICO TEXAS

LEE ENGINEERING
8220 SAN PEDRO DRIVE NE
SUITE 150
ALBUQUERQUE, NM 87113
505/338-0988 FAX 505/338-0989

AS BUILT INFORMATION

	BENCH MARKS
CONTRACTOR	RMCI, INC.
WORK STAKED BY	CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTORS ACCEPTANCE	BY COA DATE 7-14
FIELD VERIFICATION	BY COA DATE 7-14
DRAWINGS CORRECTED	BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM	INFORMATION
RECORDED	BY DATE
NO.	

Coordinates shown hereon are modified (surface) coordinates by the project average combined factor of CF = 1.000334961 around an origin of 0,0.
N.M. State Plane Coordinates - Central Zone, NAD 83 and were derived by scaling State Plane grid
Elevations are NAVD 88, and are adjusted to the NGS Control Station "10-C18, 1985" (published elevation = 5222.090'). N:1524634.40 E:1543081.96
The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE
11599	Surveying Control, Inc	1/2010

ENGINEERS SEAL

JOSEPH A. NORBY — NEW MEXICO — 21398 — PROFESSIONAL ENGINEER
12-9-2013

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY J. NORBY DATE 11-2013	
		DRAWN BY J. NORBY DATE 11-2013	
		CHECKED BY P. BARRICKLOW DATE 11-2013	

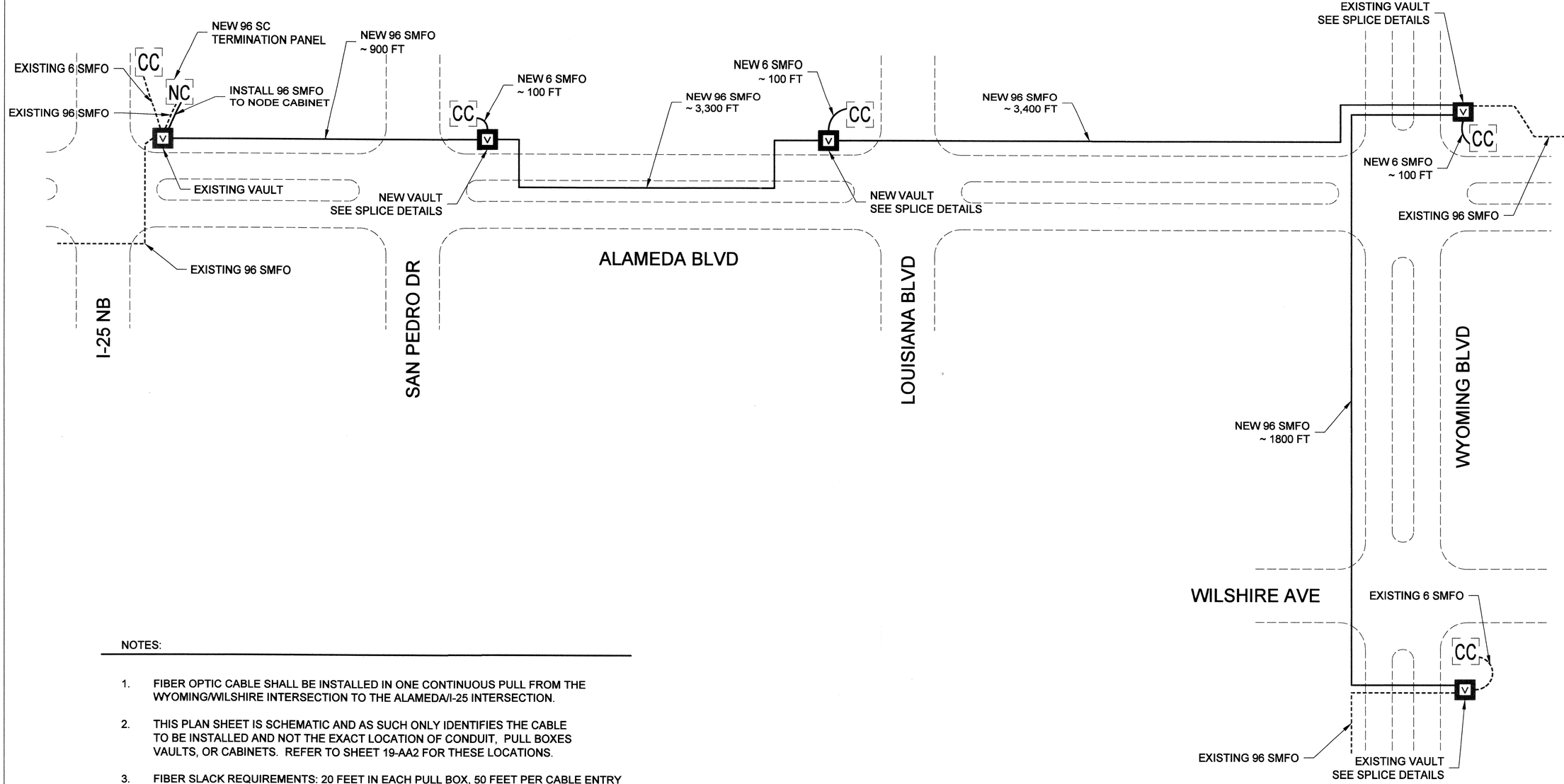
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
ITS COMMUNICATION DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19		3	5

FIBER ROUTING SCHEMATIC



NOTES:

1. FIBER OPTIC CABLE SHALL BE INSTALLED IN ONE CONTINUOUS PULL FROM THE WYOMING/WILSHIRE INTERSECTION TO THE ALAMEDA/I-25 INTERSECTION.
2. THIS PLAN SHEET IS SCHEMATIC AND AS SUCH ONLY IDENTIFIES THE CABLE TO BE INSTALLED AND NOT THE EXACT LOCATION OF CONDUIT, PULL BOXES VAULTS, OR CABINETS. REFER TO SHEET 19-AA2 FOR THESE LOCATIONS.
3. FIBER SLACK REQUIREMENTS: 20 FEET IN EACH PULL BOX, 50 FEET PER CABLE ENTRY INTO A FIBER SPLICE VAULT (96 & 6 SMFO). CONTRACTOR WILL NOT BE COMPENSATED FOR ANY ADDITIONAL SLACK PROVIDED IN PULL BOXES AND VAULTS.
4. ALL QUANTITIES PRESENTED ARE ESTIMATED. CONTRACTOR SHALL VERIFY ALL FIBER LENGTH PRIOR TO INSTALLATION.
5. EXISTING FIBER RUNS NOT BEING REPLACED SHALL REMAIN IN PLACE AND UNDISTURBED. ANY DAMAGE TO EXISTING FIBER RUNS SHALL BE REPLACED IN KIND.
6. ALL FIBER OPTIC CABLE SHALL BE INSTALLED IN 3" RIGID ELECTRICAL CONDUIT.

AS BUILT INFORMATION
CONTRACTOR RMCI, INC.
WORK INSPECTED BY CARTESIAN SURVEYS, INC. DATE 7-14
CONTRACTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS CORRECTED BY SMITH ENGINEERING CO. DATE 7-14
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
Coordinates shown hereon are modified (surface)
N.M. State Plane Coordinates – Central Zone, NAD 83 and were derived by scaling State Plane grid coordinates by the project average combined factor of CF = 1.0003334961 ground an origin of 0.0.
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The coordinates and elevations are US Survey Feet.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	1/2010

ENGINEERS SEAL
JOSEPH A. NORBY NEW MEXICO 21989 PROFESSIONAL ENGINEER
12-9-2013

NO.	DATE	REMARKS	DESIGNED BY	DRAWN BY	CHECKED BY
		REVISIONS DESIGN	J. NORBY	J. NORBY	P. BARRICKLOW
			DATE 11-2013	DATE 11-2013	DATE 11-2013

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY, VISION FOR TOMORROW
333 San Pedro Dr. NE Bldg 4, Suite 200 Albuquerque, NM 87110 Phone (505) 884-0900 Fax (505) 884-0235
COLORADO NEW MEXICO TEXAS

LEE ENGINEERING
8220 SAN PEDRO DRIVE NE SUITE 150 ALBUQUERQUE, NM 87113 505/338-0988 FAX 505/338-0989

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
ITS COMMUNICATION DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19		4	5

CCTV CAMERA TESTING PROCEDURES

CLOSED CIRCUIT TELEVISION

Project Number: 7663.91
Date: 11/3/14 **Service Technician:** HERMAN SIERRA
Camera Manufacturer: AXIS COMMUNICATIONS
Camera Installer: VISCOM
Camera Serial Number: 00408CFA57EA
Camera Location: ALAMEDA / LOUISIANA
Encoder Manufacturer: N/A
Encoder Serial Number: N/A
Encoder Model Number: N/A
CDMA Model Number: N/A **Serial Number** —
Switch Model Number: — **Serial Number** —

☐ All Line items received (mounting hardware, power supplies, surge suppression, cables, connectors, and wiring).
- Attach list of all items provided with project

Local testing shall be done using a laptop computer. The computer monitor shall be used to display the real time view of the camera during testing. At a minimum, the testing shall demonstrate all features, including those required by this specification, and any additional features, including, but not limited to items below

1. **Demonstrate control of focus, zoom, digital zoom, white balance, iris, tilt/pan, and power on/off.** ✓
2. **Demonstrate color and black/white modes of operation.** ✓
3. **Demonstrate non-deviating (relative to level) field of view.** ✓
4. **Demonstrate response to automatic preset positioning commands.** ✓
5. **Demonstrate the display of camera ID information.** N/A
6. **Demonstrate presence and quality of video signal during bright sunlight and night conditions.** ✓
7. **Demonstrate retention of non-volatile RAM data (i.e., preset positions).** ✓
8. **Demonstrate that the camera can be connected and operated from a user workstation at the TOC (full functionality as identified in items 1 -7).** ✓

Herman Sierra Herman Sierra 11/25/14
FIELD TEST PERFORMED BY (PRINT NAME & SIGN) **DATE**

Matthew Yawson Matthew Yawson 11/25/14
REMOTE TEST PERFORMED AT TOC BY (PRINT NAME & SIGN) **DATE**

Paul Barrickl.o 11-25-14
APPROVED BY (PRINT NAME & SIGN) **DATE**

SEC JOB # 110203

SMITH ENGINEERING COMPANY
COLORADO NEW MEXICO TEXAS
SOLUTIONS FOR TODAY, VISION FOR TOMORROW
333 Rio Rancho Dr. NE Building 4, Suite 303 Rio Rancho, NM 87124 Phone (505) 891-0900 Fax (505) 891-0915

LEE ENGINEERING
8220 SAN PEDRO DRIVE NE SUITE 150 ALBUQUERQUE, NM 87113 505/338-0988 FAX 505/338-0989

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc	11/2010

BENCH MARKS

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AS BUILT INFORMATION

CONTRACTOR RMCI, INC.
WORK STAKED BY CARTESIAN SURVEYS, INC. DATE 7-14
INSPECTOR'S ACCEPTANCE BY COA DATE 7-14
FIELD VERIFICATION BY COA DATE 7-14
DRAWINGS BY SMITH ENGINEERING CO. DATE 7-14
CORRECTED BY ENGINEERING MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEERS SEAL

JOSEPH A. NORBY NEW MEXICO 21698 PROFESSIONAL ENGINEER
12-9-2013

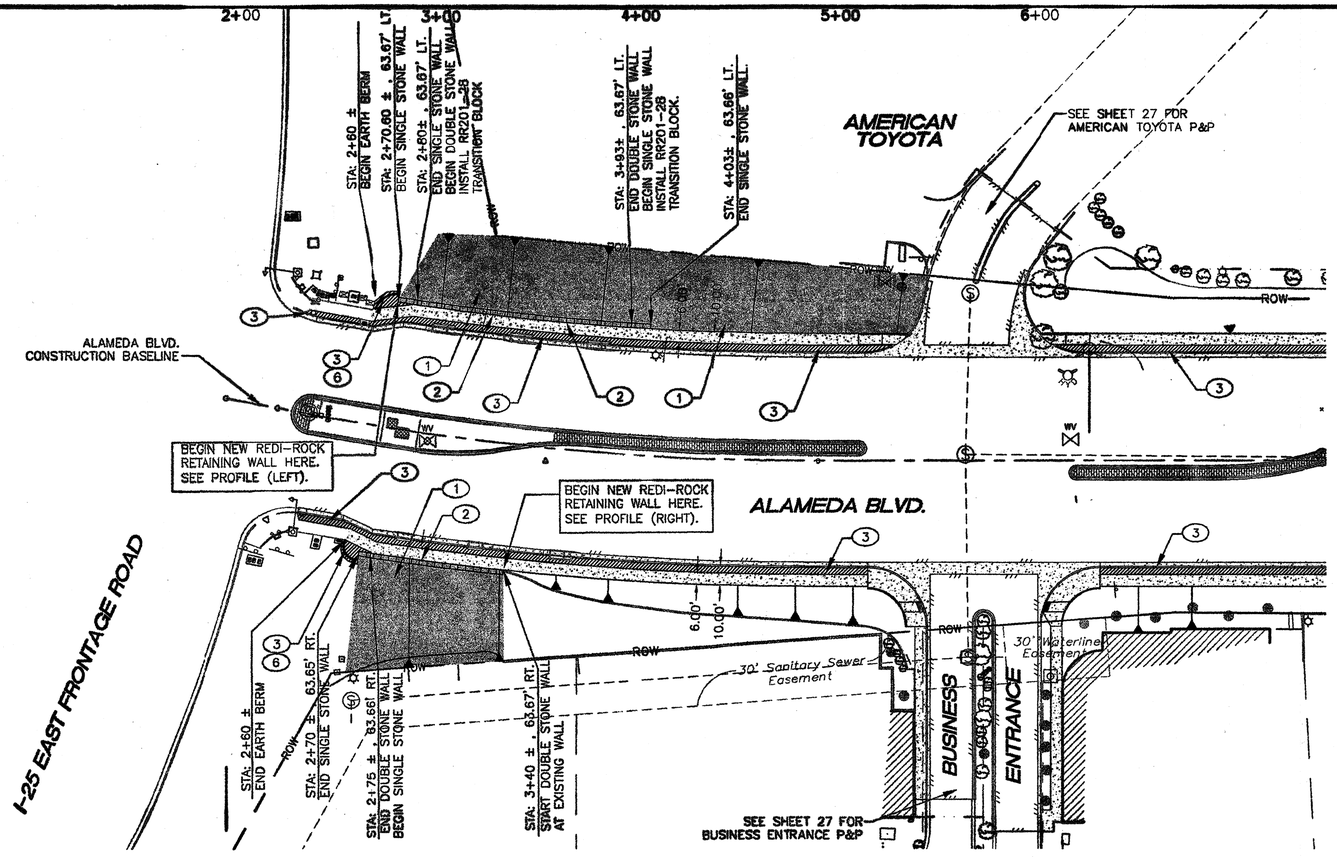
NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY J. NORBY DATE 11-2013	
		DRAWN BY J. NORBY DATE 11-2013	
		CHECKED BY P. BARRICKLOW DATE 11-2013	

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
ITS COMMUNICATION DETAILS

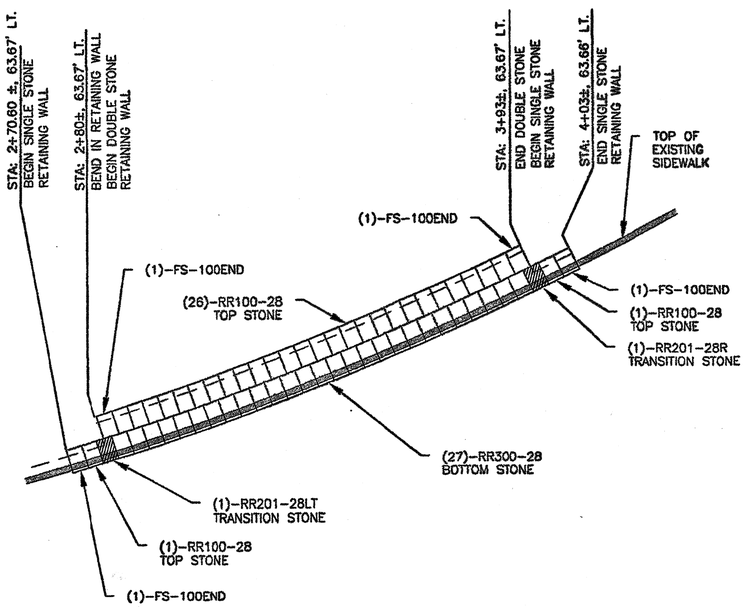
Design Review Committee	City Engineer Approval	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19		5	5



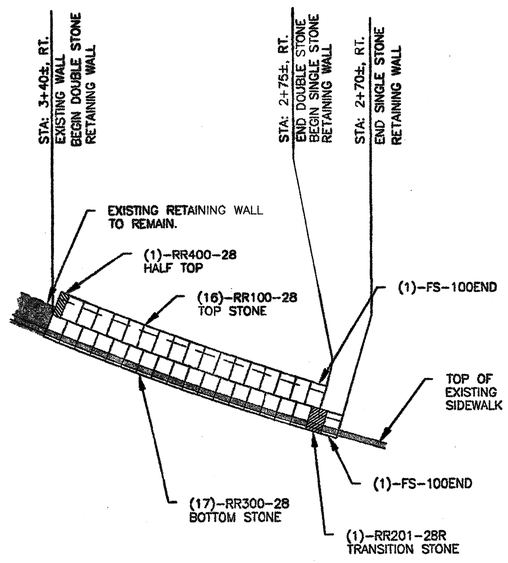
PLAN

SCALE: 1"=40'



GRAVITY RETAINING WALL PROFILE (LEFT)

1"=20' HORIZ.
1"=10' VERT.



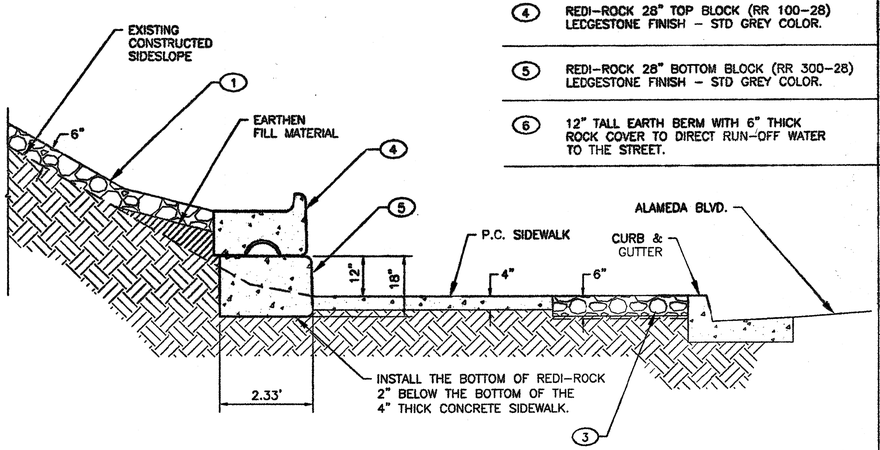
GRAVITY RETAINING WALL PROFILE (RIGHT)

1"=20' HORIZ.
1"=10' VERT.

QUANTITY OF 2"-4" FRACTURED FACE SAN PEDRO STANDARD GRAVEL MULCH = 1,525 SQ YD. @ 6" IN DEPTH.

KEYED NOTES

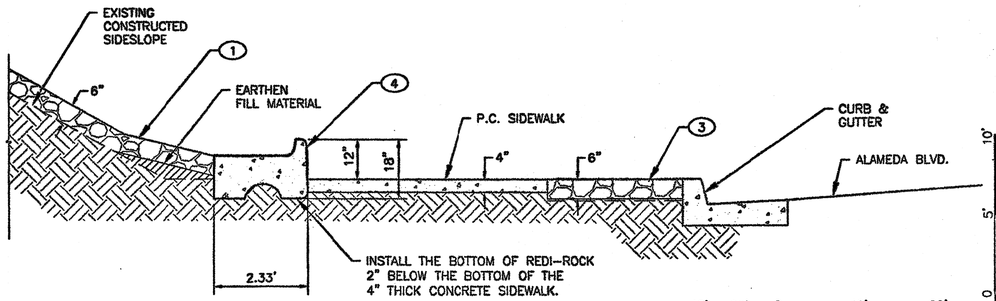
1. 2"-4" GRAVEL MULCH (FRACTURED FACE). NO FILTER FABRIC. SAN PEDRO STANDARD FROM LAFARGE NORTH AMERICA.
2. BUILD REDI-ROCK GRAVITY RETAINING WALL.
3. 2"-4" (BIN #12) DUKE CITY BROWN FRACTURED FACE ROCK W/ WEED STOP FABRIC UNDER ROCK.
4. REDI-ROCK 28" TOP BLOCK (RR 100-28) LEDGESTONE FINISH - STD GREY COLOR.
5. REDI-ROCK 28" BOTTOM BLOCK (RR 300-28) LEDGESTONE FINISH - STD GREY COLOR.
6. 12" TALL EARTH BERM WITH 6" THICK ROCK COVER TO DIRECT RUN-OFF WATER TO THE STREET.



NOTE.
BUILD REDI-ROCK LEDGESTONE GRAVITY RETAINING WALL.
INSTALL RR 201-28 BLOCK FOR WALL HEIGHT TRANSITION FROM ONE BLOCK HEIGHT TO TWO BLOCK HEIGHT.

TYPICAL DOUBLE STONE WALL SECTION

SCALE: NONE



NOTE.
BUILD REDI-ROCK LEDGESTONE GRAVITY RETAINING WALL.
INSTALL RR 201-28 BLOCK FOR WALL HEIGHT TRANSITION FROM ONE BLOCK HEIGHT TO TWO BLOCK HEIGHT.

TYPICAL SINGLE STONE WALL SECTION

SCALE: NONE

SCALE: 1" = 5'

SCALE: 1" = 40'

NOTE:
ALL STATION AND OFFSET CALLOUTS SHOWN ON THIS SHEET ARE REFERENCED TO THE ALAMEDA BLVD. CONSTRUCTION BASELINE.

SEC JOB # 110203

SMITH ENGINEERING COMPANY
SOLUTIONS FOR TODAY... VISION FOR TOMORROW
2201 San Pedro Dr. NE Building 4, Suite 200 Albuquerque, NM 87110 Phone: (505) 884-0789 Fax: (505) 884-2376
NEW MEXICO TEXAS

AS BUILT INFORMATION

CONTRACTOR	RMCI, INC.	
WORK STAKED BY	CARTESIAN SURVEYS, INC.	DATE 7-14
INSPECTORS ACCEPTANCE	COA	DATE 7-14
FIELD VERIFICATION BY	COA	DATE 7-14
DRAWINGS CORRECTED BY	SMITH ENGINEERING CO.	DATE 7-14

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
11599	Surveying Control, Inc.	11/2010

ENGINEERS SEAL

NEW MEXICO — CARL L. ANDREWS — 9771 — REGISTERED PROFESSIONAL ENGINEER

01-20-2014

REMARKS / REVISIONS

NO.	DATE		
		DESIGNED BY	DLA
		DRAWN BY	SEC
		CHECKED BY	DLA

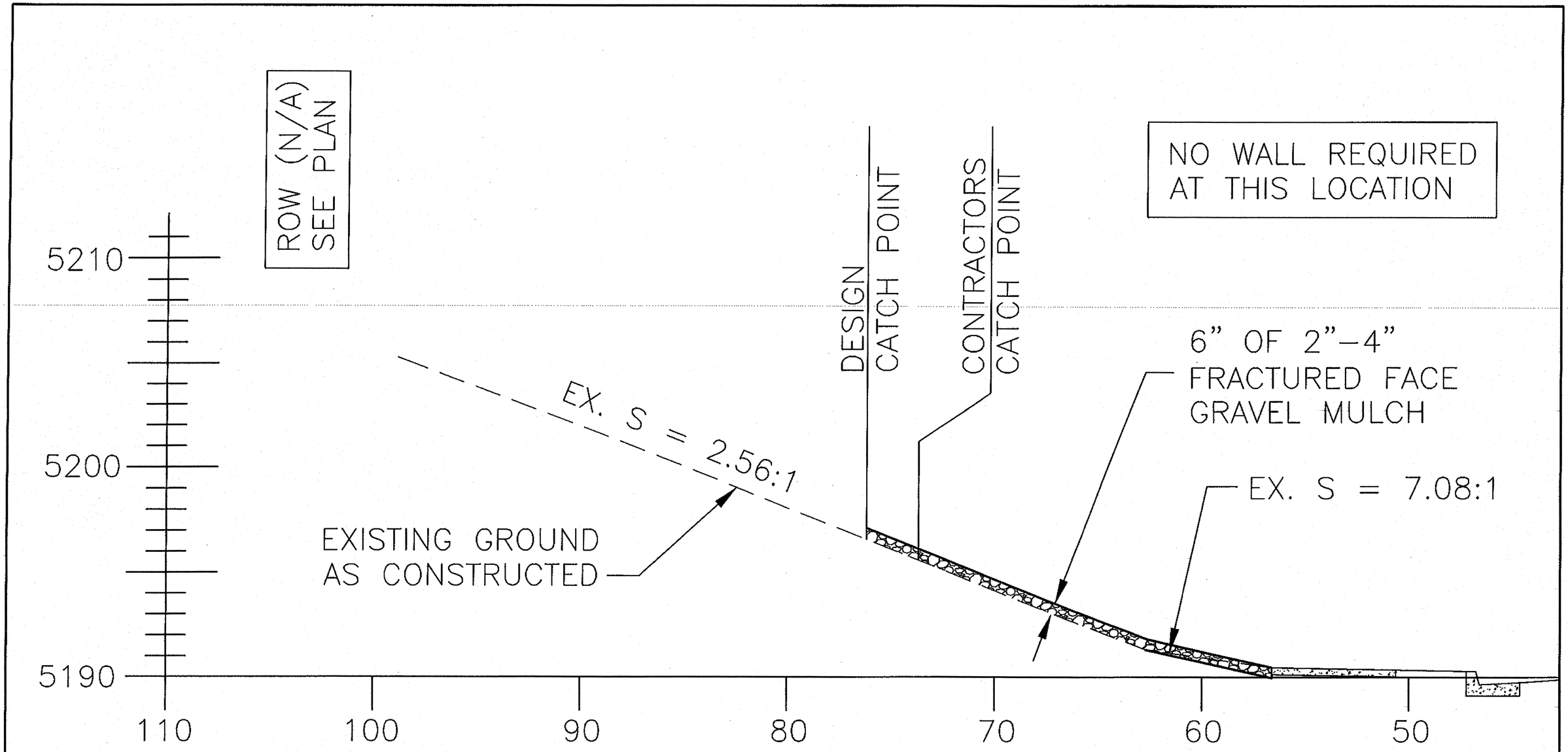
DESIGN — DATE 12-2012 — BY

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

TITLE: ALAMEDA BLVD. WIDENING
CIVIL SKETCH #2 (REV 1)

Design Review Committee	City Engineer Approval	Last Design Update	No. / Dsg / Yr.	No. / Dsg / Yr.

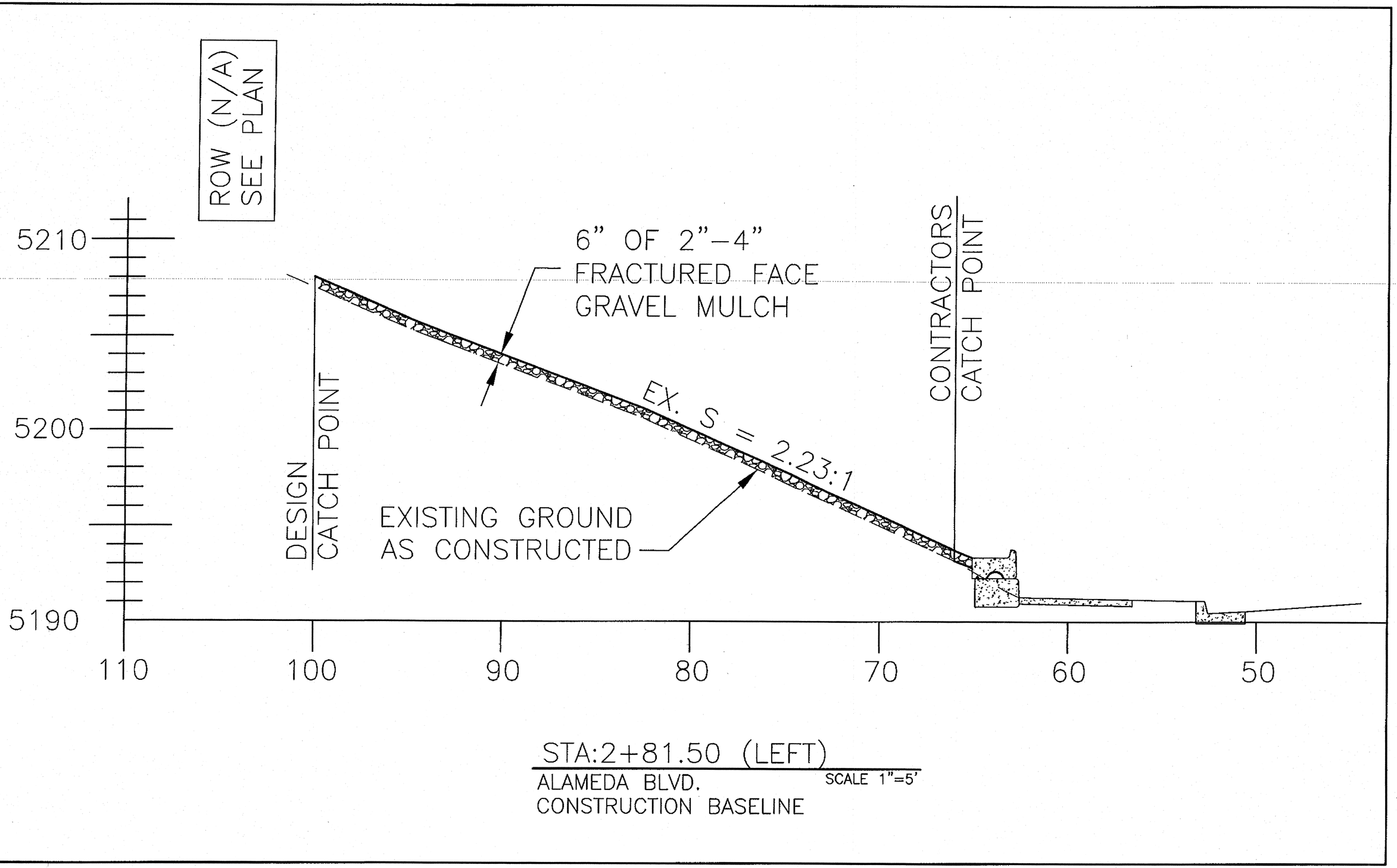
City Project No.	Zone Map No.	Drawing No.	Sheet	Of
7663.91	C-18/C-19	SK#2	-	84



STA:2+60 (LEFT)

ALAMEDA BLVD.
CONSTRUCTION BASELINE

SCALE 1"=5'



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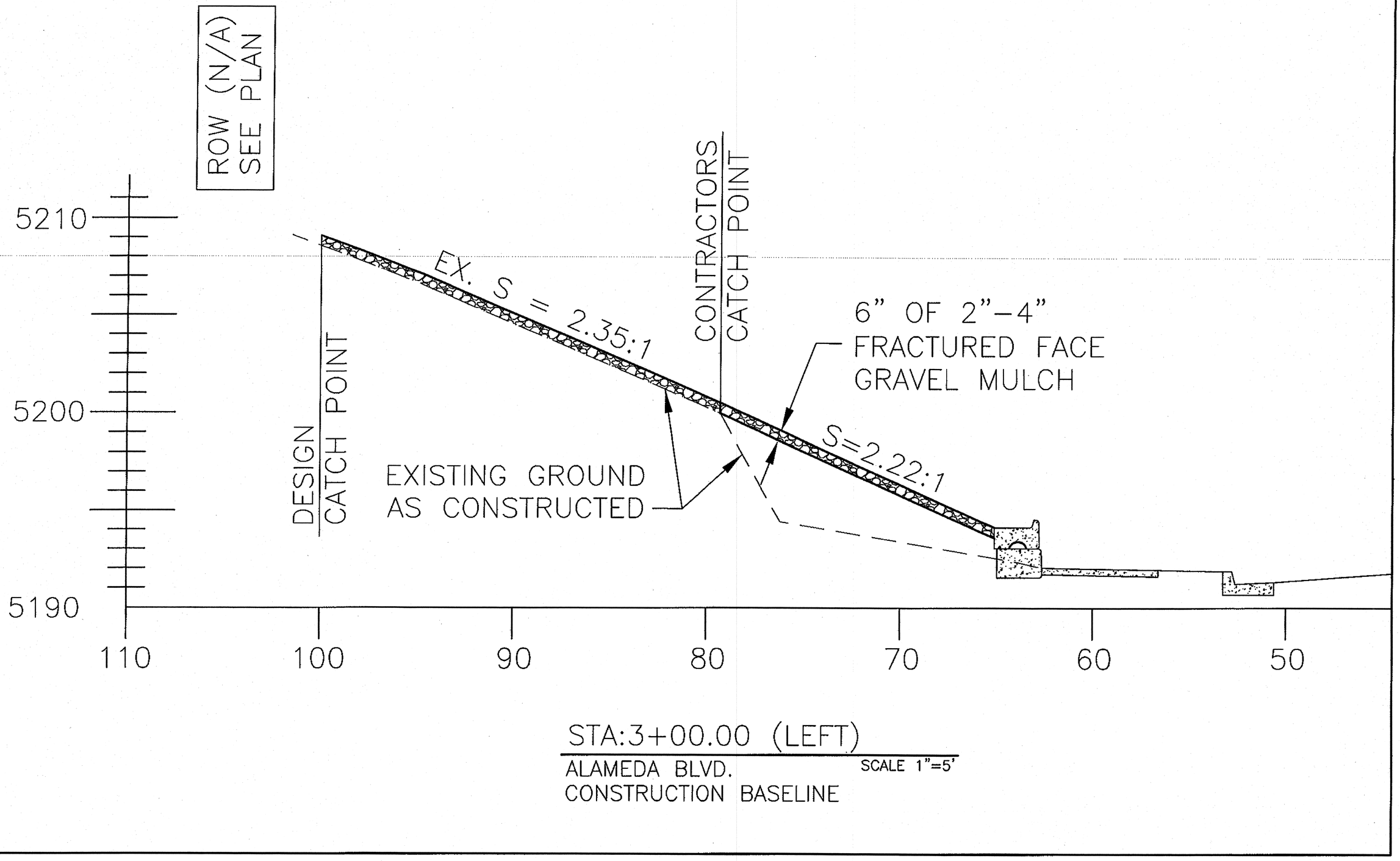
ALAMEDA BLVD.
CONSTRUCTION BASELINE

SCALE 1"=5'



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ALAMEDA BLVD.
CONSTRUCTION BASELINE

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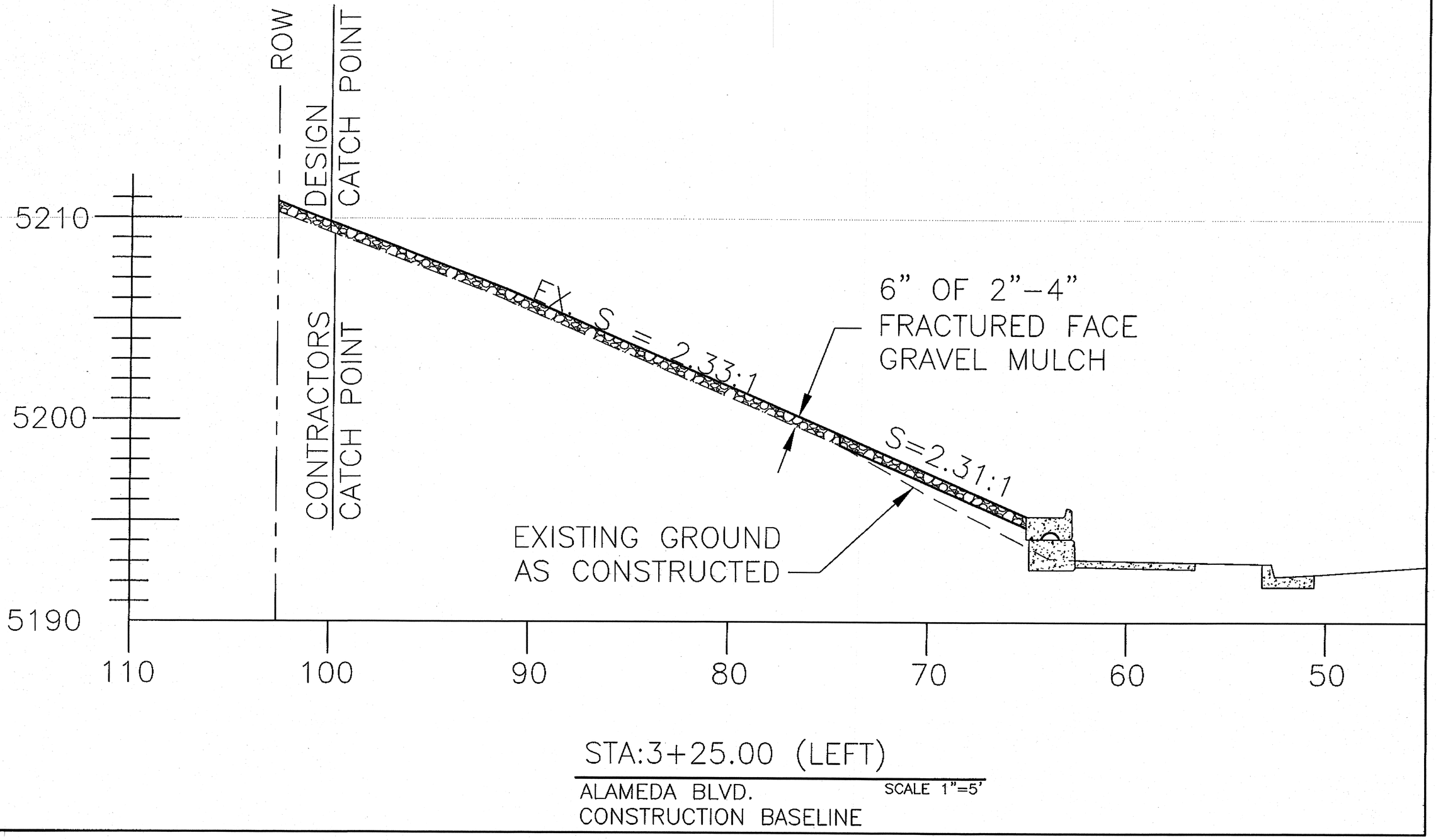

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ALAMEDA BLVD.
CONSTRUCTION BASELINE

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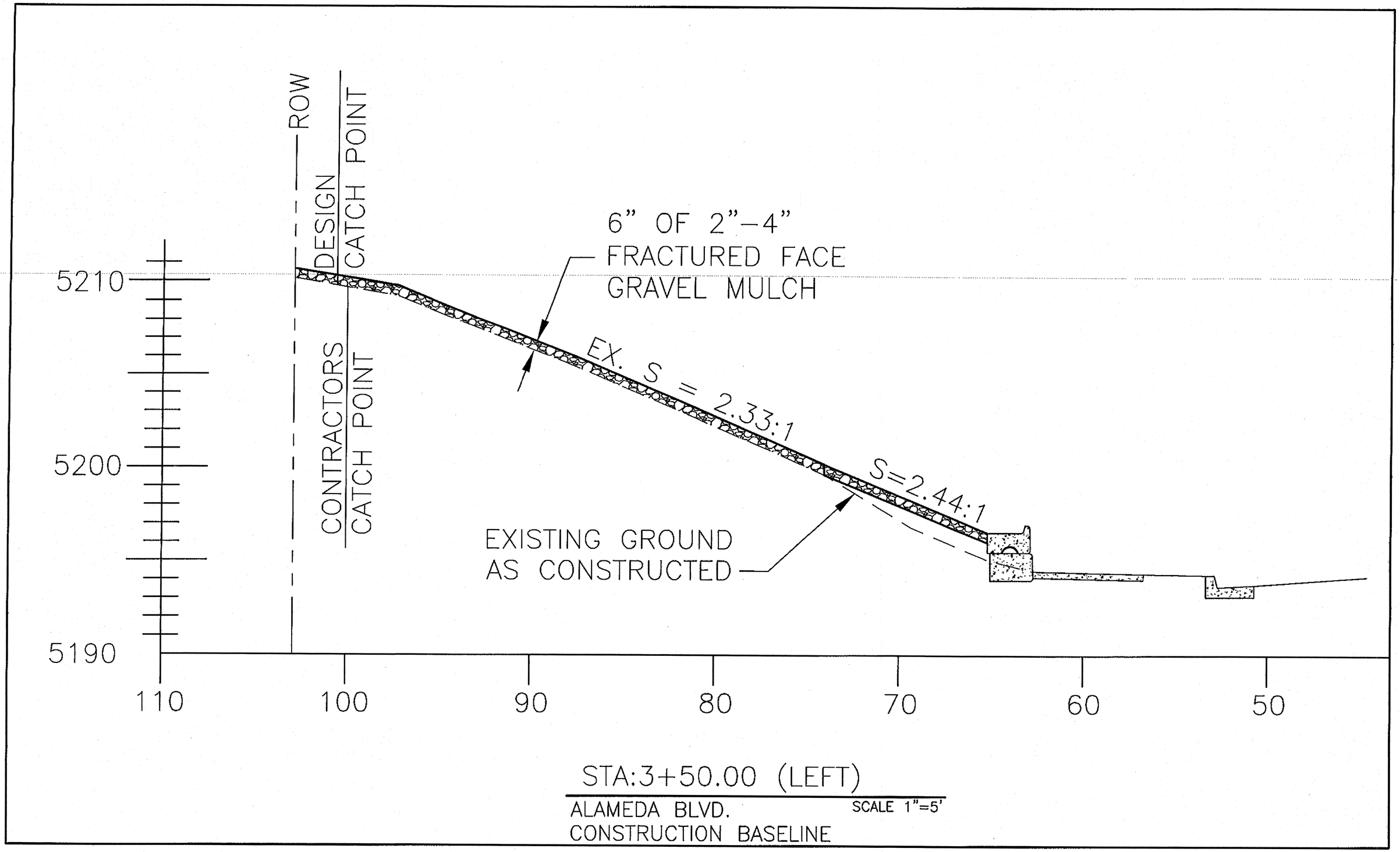

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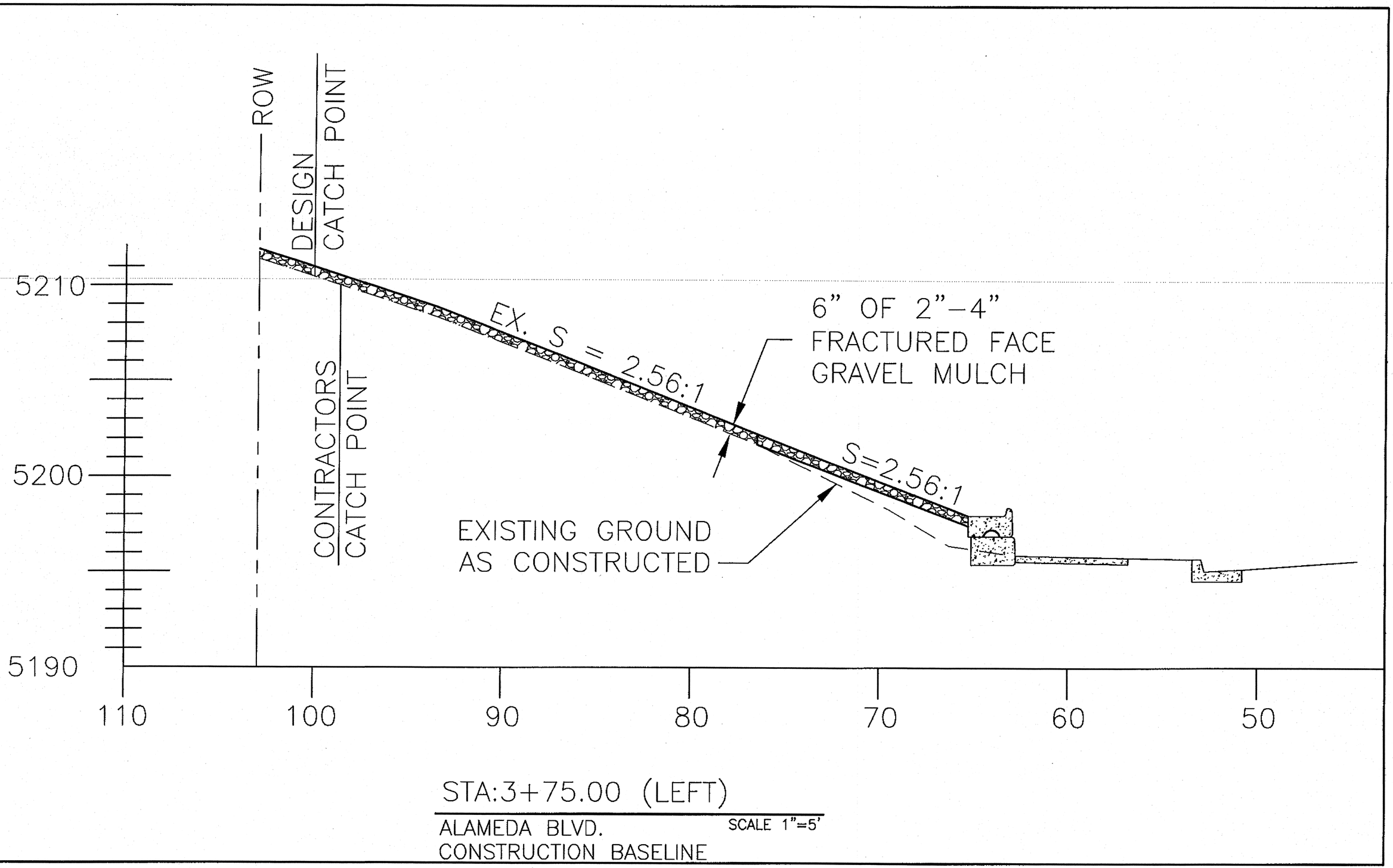
ALAMEDA BLVD.
CONSTRUCTION BASELINE

SCALE 1"=5'



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ALAMEDA BLVD.
CONSTRUCTION BASELINE

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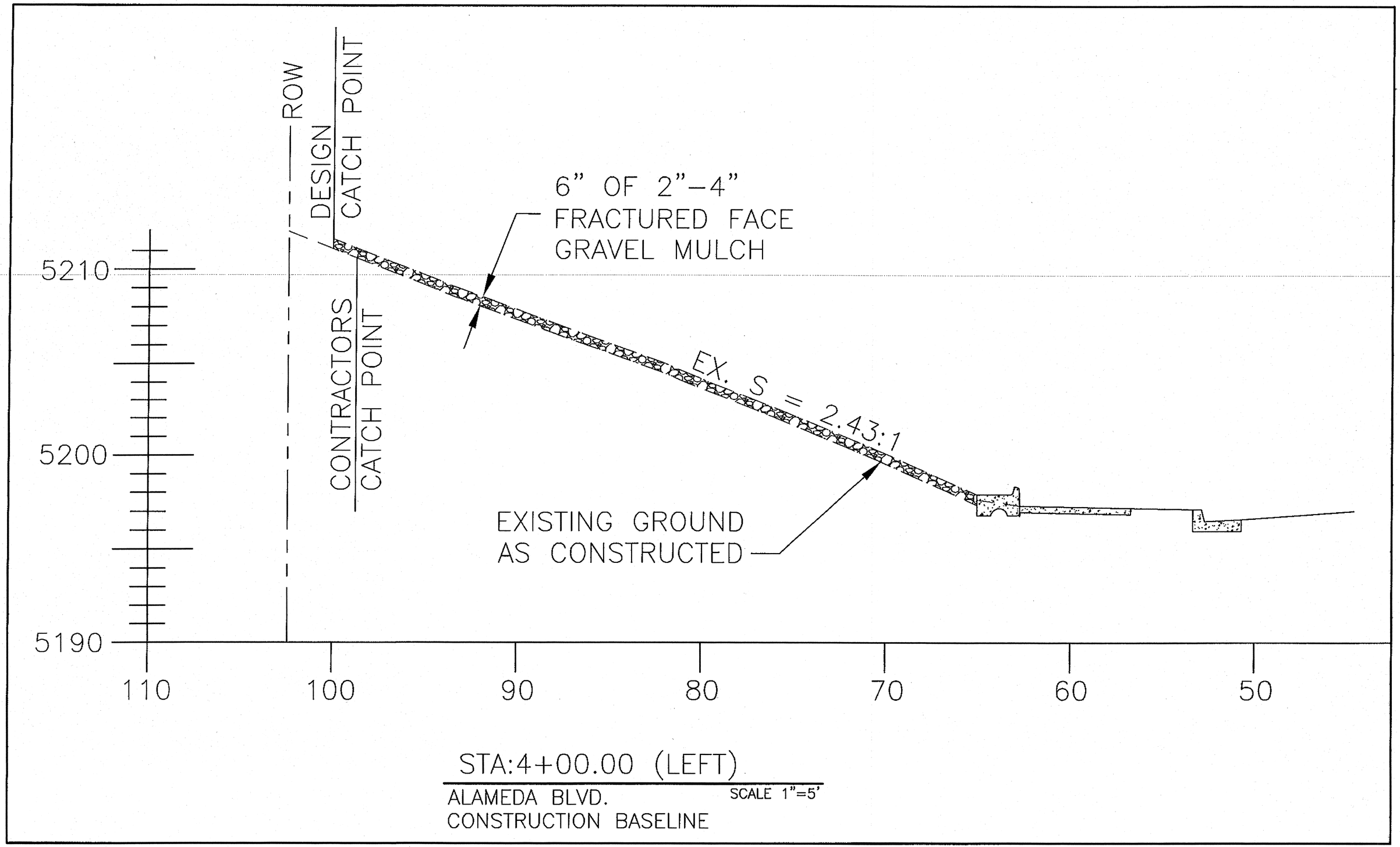

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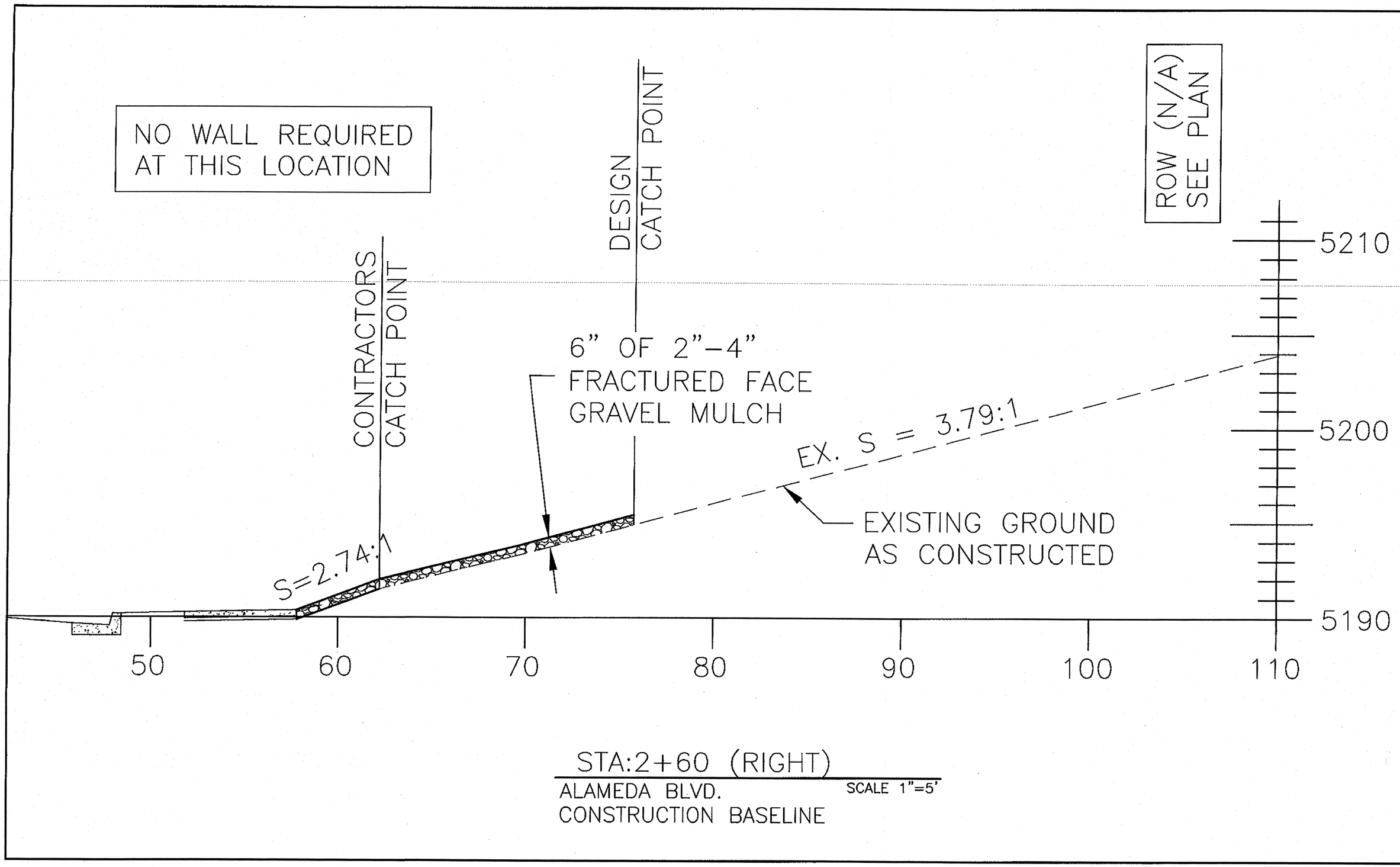
ALAMEDA BLVD.
CONSTRUCTION BASELINE

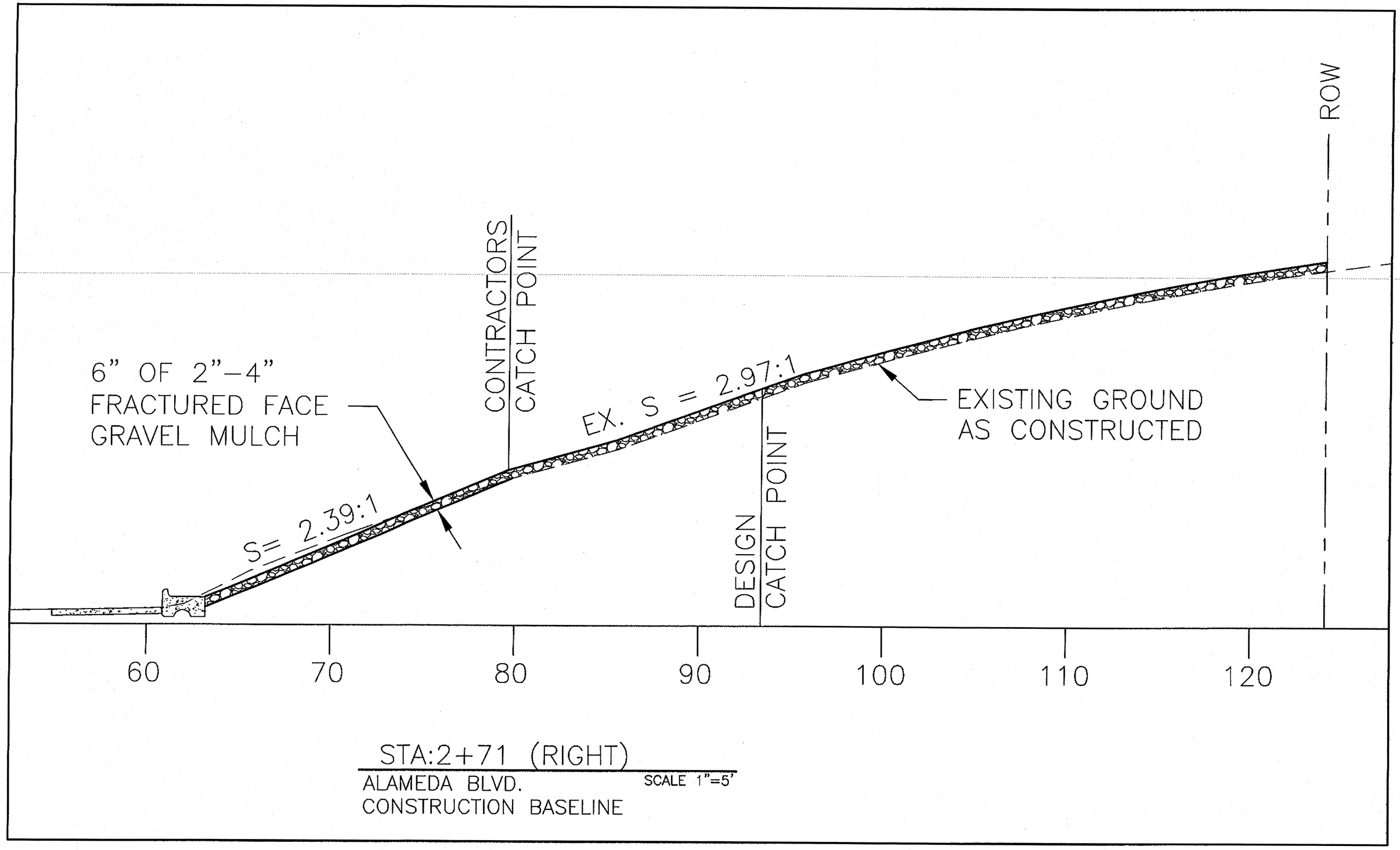
SCALE 1"=5'



STA:2+60 (RIGHT)

ALAMEDA BLVD.
CONSTRUCTION BASELINE

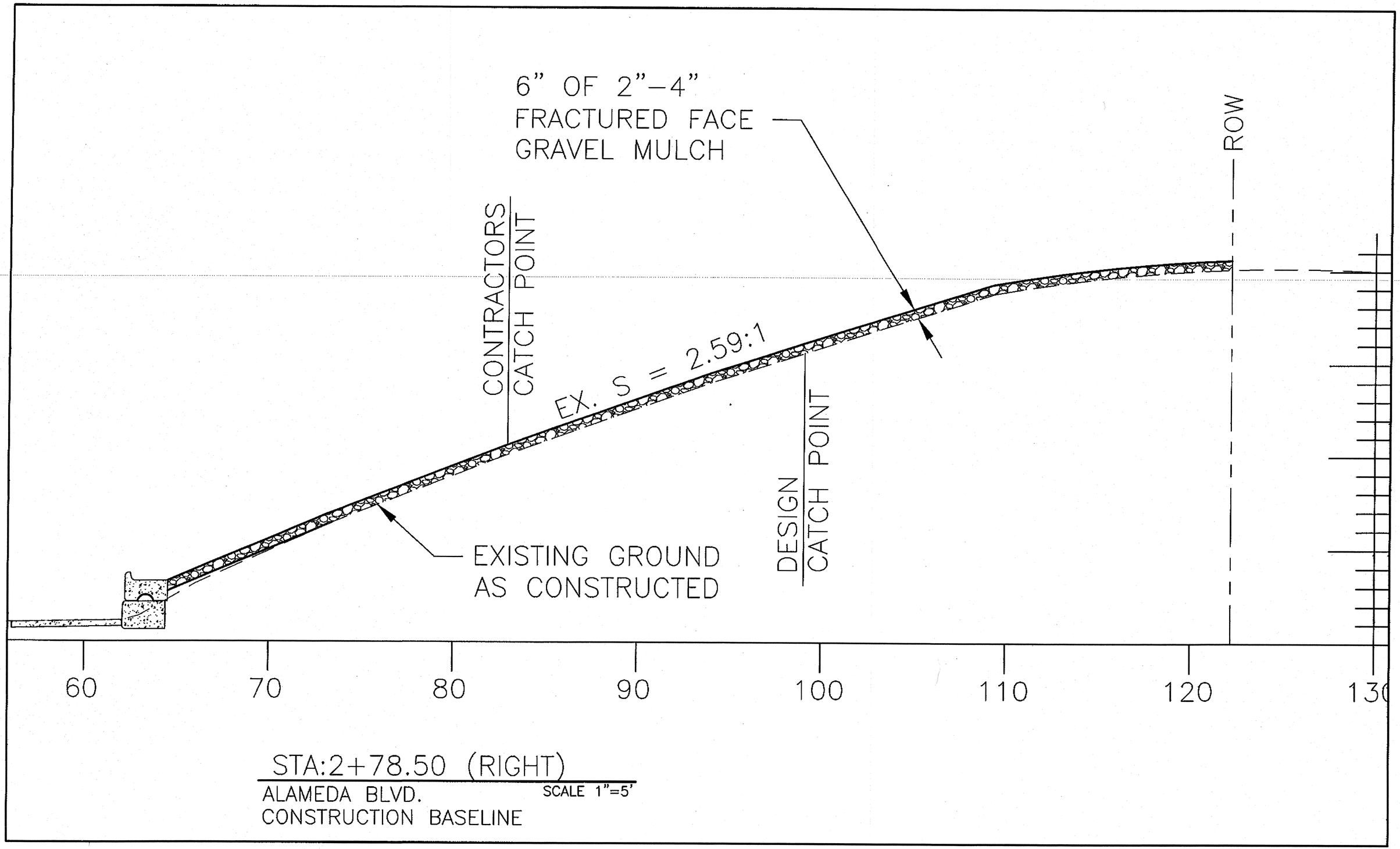
SCALE 1"=5'



STA:2+71 (RIGHT)

ALAMEDA BLVD.
CONSTRUCTION BASELINE

SCALE 1"=5'



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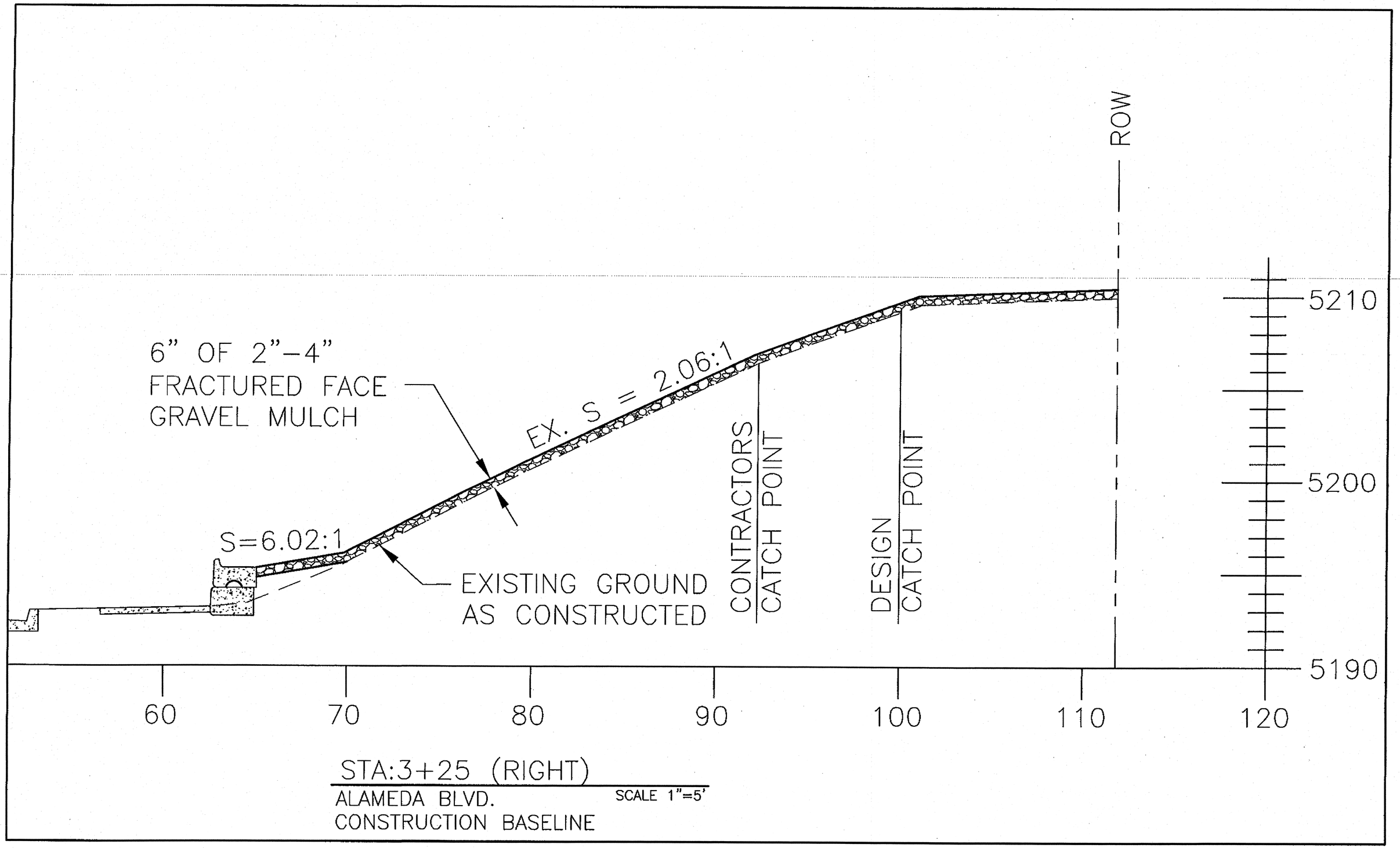
ALAMEDA BLVD.
CONSTRUCTION BASELINE

SCALE 1"=5'



STA:3+25 (RIGHT)

ALAMEDA BLVD.
CONSTRUCTION BASELINE

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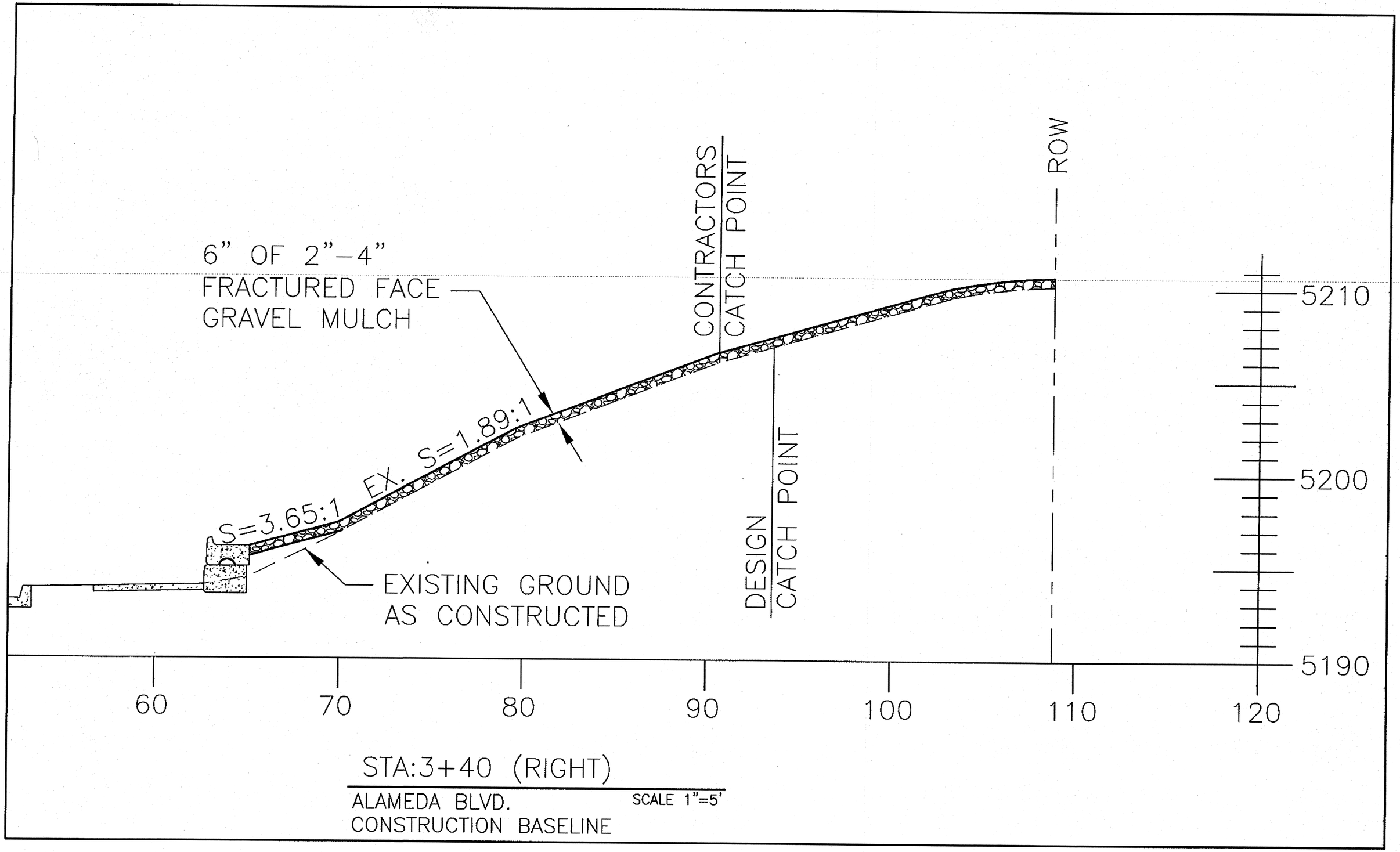


STA:3+40 (RIGHT)

ALAMEDA BLVD.
CONSTRUCTION BASELINE

SCALE 1"=5'

ALAMEDA WIDENING
CITY PROJECT NO. 7663.91

ENGINEER:
SMITH ENGINEERING

CONTRACTOR:
RMCI

PRECAST CONCRETE MANUFACTURER:

ARCHITECTURAL PRECAST CONCRETE
MATERIALS, INC.
A DIVISION OF BUILDOLOGY

P.O. BOX 1507
BERNALILLO, NM 87004
PH. (505) 867-9035
FAX: (505) 867-4419
www.buildologyinc.com

NPCA CERTIFIED PLANT

AUTHORIZED
REDI-ROCK
MANUFACTURER

TABLE OF CONTENTS:

SHEET NUMBER	DESCRIPTION
0.0	COVER SHEET
0.1	SPECS
1.1	WALL ELEVATIONS
2.1	WALL SECTIONS

BLOCK COUNT

BLOCK TYPE	QTY
100-28L	44
201-28LL	1
201-28RL	2
300-28L	44
FS-101ENDLL	2
FS-101ENDRL	4
FS-401ENDLL	1

BLOCK CODE LEGEND:

CODE	DESCRIPTION
100-28L	LEDGESTONE 28" TOP
201-28LL	LEDGESTONE 28" HALF TOP HALF MIDDLE- TOP HALF LEFT
201-28RL	LEDGESTONE 28" HALF TOP HALF MIDDLE- TOP HALF RIGHT
300-28L	LEDGESTONE 28" BOTTOM
FS-101ENDLL	LEDGESTONE 23" FREESTANDING TOP- FINISHED END LEFT
FS-101ENDRL	LEDGESTONE 23" FREESTANDING TOP- FINISHED END RIGHT
FS-200ENDL	LEDGESTONE 23" FREESTANDING MIDDLE-FINISHED END
FS-401ENDLL	LEDGESTONE 23" FREESTANDING HALF TOP- FINISHED END LEFT
FS-401ENDRL	LEDGESTONE 23" FREESTANDING HALF TOP- FINISHED END RIGHT

WO#

NOTE TO CONTRACTOR: ONLY WHEN ITEMS MARKED FOR VERIFICATION HAVE BEEN VERIFIED DOES MATERIALS, INC. HAVE APPROVED SHOP DRAWINGS. SO THERE ARE NO DELAYS CAUSED BY A LACK OF INFORMATION PLEASE VERIFY ALL ITEMS MARKED FOR VERIFICATION. THESE ITEMS ARE CLOUDED AND HAVE A "VERIFY" ARROW POINTING AT THEM. SHOULD YOU HAVE QUESTIONS PLEASE CALL MATERIALS, INC.

NOTE TO CONTRACTOR: IT IS YOUR RESPONSIBILITY TO REVIEW AND APPROVE THE ELEVATIONS, DETAILS, SECTIONS AND NOTES CONTAINED WITH THIS SET OF SHOP DRAWINGS. CHANGES TO THE DRAWINGS AND/OR CASTING REPLACEMENT UNITS ONCE THE DRAWINGS HAVE BEEN APPROVED CONSTITUTE A REVISION TO THE CONTRACT AND WILL NECESSITATE A CHANGE ORDER ADD TO THE CONTRACT.

SPECIFICATIONS FOR REDI–ROCK WALL SYSTEM

PART 1: GENERAL

1.1 SCOPE

WORK INCLUDES FURNISHING AND INSTALLING CONCRETE RETAINING WALL UNITS TO THE LINES AND GRADES DESIGNATED ON THE CONSTRUCTION DRAWINGS AND AS SPECIFIED HEREIN.

1.2 REFERENCE STANDARDS

A. ASTM C94 READY-MIXED CONCRETE
B. ASTM C1372 SEGMENTAL RETAINING WALL UNITS

1.3 DELIVERY, STORAGE, AND HANDLING

A. CONTRACTOR SHALL CHECK THE MATERIALS UPON DELIVERY TO ASSURE PROPER MATERIAL HAS BEEN RECEIVED.
B. CONTRACTOR SHALL PREVENT EXCESSIVE MUD, WET CEMENT, AND LIKE MATERIALS FROM COMING IN CONTACT WITH THE SRW UNITS.
C. CONTRACTOR SHALL PROTECT THE MATERIALS FROM DAMAGE. DAMAGED MATERIAL SHALL NOT BE INCORPORATED IN THE PROJECT.

PART 2: MATERIALS

2.1 WALL UNITS

A. WALL UNITS SHALL BE REDI-ROCK AS PRODUCED BY A LICENSED MANUFACTURER.
B. WALL UNITS SHALL BE MADE WITH READY-MIX CONCRETE IN ACCORDANCE WITH C.O.A SPECIFICATIONS.
C . BLOCKS TO BE REDI-ROCK "LEDGESTONE" IN LIMESTONE GRAY COLOR.

CLIMATE	AIR CONTENT	28 DAY COMPRESSIVE STRENGTH, PSI	SLUMP*
MEDIUM RISK	5.0%-8.0%	4000	3.5" +/- 1"

*HIGHER SLUMPS ARE ALLOWED IF ACHIEVED BY USE OF APPROPRIATE ADMIXTURES. NOTWITHSTANDING ANYTHING STATED ABOVE, ALL MATERIAL USED IN THE WALL UNITS MUST MEET APPLICABLE ASTM AND LOCAL REQUIREMENTS FOR EXTERIOR CONCRETE.

D. EXTERIOR BLOCK DIMENSIONS SHALL BE UNIFORM AND CONSISTENT. MAXIMUM DIMENSIONAL DEVIATIONS SHALL BE 1% EXCLUDING THE ARCHITECTURAL SURFACE. MAXIMUM WIDTH (FACE TO BACK) DEVIATION INCLUDING THE ARCHITECTURAL SURFACE SHALL BE 1.0 INCH.

PART 3: CONSTRUCTION OF WALL SYSTEM

3.1 EXCAVATION

A. CONTRACTOR SHALL EXCAVATE TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS.

3.2 FOUNDATION SOIL PREPARATION

A. NATIVE FOUNDATION SOIL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR OR 90% OF MODIFIED PROCTOR.

3.3 UNIT INSTALLATION

A. THE FIRST COURSE OF WALL UNITS SHALL BE PLACED ON THE PREPARED SUBGRADE WITH THE AESTHETIC SURFACE FACING OUT AND THE FRONT EDGES TIGHT TOGETHER. ALL UNITS SHALL BE CHECKED FOR ALIGNMENT AS THEY ARE PLACED.
B. ENSURE THAT UNITS ARE IN FULL CONTACT WITH COMPACTED SUBGRADE. PROPER CARE SHALL BE TAKEN TO DEVELOP STRAIGHT LINES AND SMOOTH CURVES ON SUBGRADE PER WALL LAYOUT.
C. THE BACKFILL IN FRONT AND BACK OF ENTIRE BASE ROW SHALL BE PLACED AND COMPACTED TO FIRMLY LOCK THEM IN PLACE. MAKE SURE TO INFILL THE TRIANGULAR SPACE BETWEEN BLOCKS WITH NATIVE MATERIAL. CHECK ALL UNITS AGAIN FOR ALIGNMENT. ALL EXCESS MATERIAL SHALL BE SWEPT FROM TOP OF UNITS.
D. INSTALL NEXT COURSE OF WALL UNITS ON TOP OF BASE ROW. POSITION BLOCKS TO BE OFFSET FROM SEAMS OF BLOCKS BELOW. BLOCKS SHALL BE PLACED FULLY FORWARD SO KNOB AND GROOVE ARE ENGAGED. CHECK EACH BLOCK FOR PROPER ALIGNMENT. BACKFILL THE TRIANGULAR SPACE BETWEEN ADJACENT BLOCKS AND AT LEAST 12 INCHES BEHIND THE BLOCKS WITH NATIVE MATERIAL. SPREAD BACKFILL IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES. EMPLOY METHODS USING LIGHTWEIGHT COMPACTION EQUIPMENT THAT WILL NOT DISRUPT THE STABILITY OR BATTER OF THE WALL. HAND-OPERATED PLATE COMPACTION EQUIPMENT SHALL BE USED AROUND THE BLOCK AND WITHIN 3 FEET OF THE WALL TO ACHIEVE CONSOLIDATION. COMPACT BACK FILL TO 95% OF STANDARD PROCTOR (ASTM D 698, AASHTO T-99) DENSITY WITHIN 2% OF ITS OPTIMUM MOISTURE CONTENT.
E. INSTALL EACH SUBSEQUENT COURSE IN LIKE MANNER. REPEAT PROCEDURE TO THE EXTENT OF WALL HEIGHT.
F. ALL WALLS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL BUILDING CODES AND REQUIREMENTS.

NO.	DATE	REVISION

ARCHITECTURAL PRECAST CONCRETE
MATERIALS, INC.
315 SOUTH HILL Rd. BERNALILLO, NM 87004
P. (505) 867-9055
F. (505) 867-4414
REDI-ROCK

ENGINEER/SPECIFIER:
SMITH ENGINEERING

CONTRACTOR:
RMCI

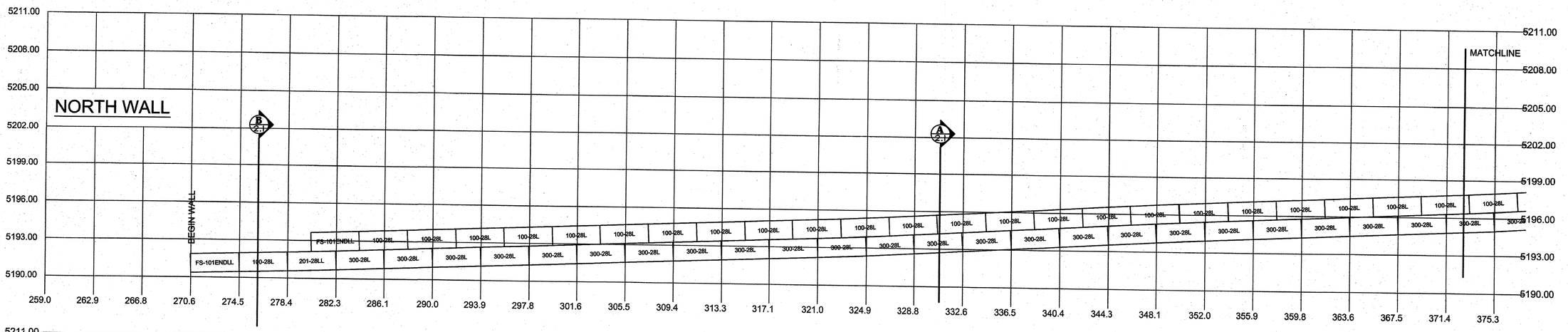
ALAMEDA RETAINING WALL SPECIFICATIONS

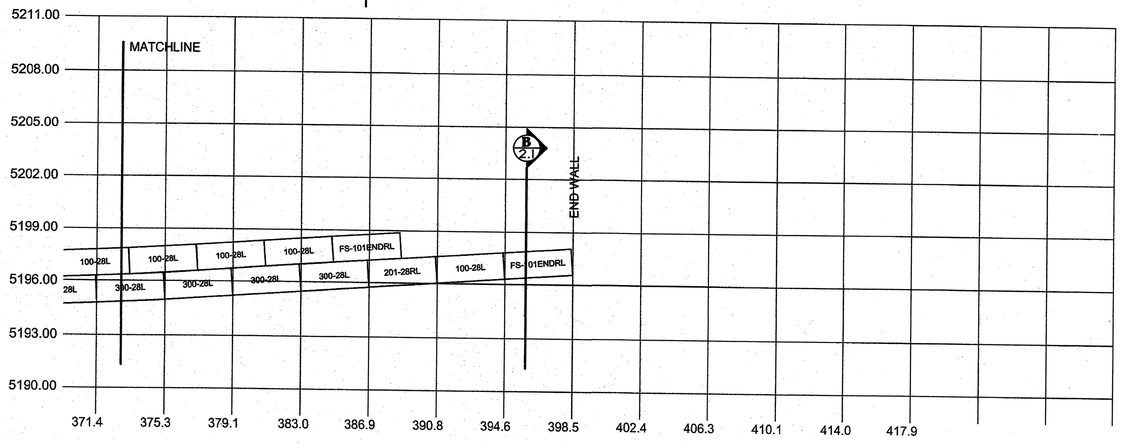
DONALD A. MILLENBACK 9638 REGISTERED PROFESSIONAL ENGINEER
12-12-14

QUOTE NO:
WORK ORDER NO. 13XXX
DRAWN BY: JDE
CHECKED BY:
PLOT DATE: 12/12/13

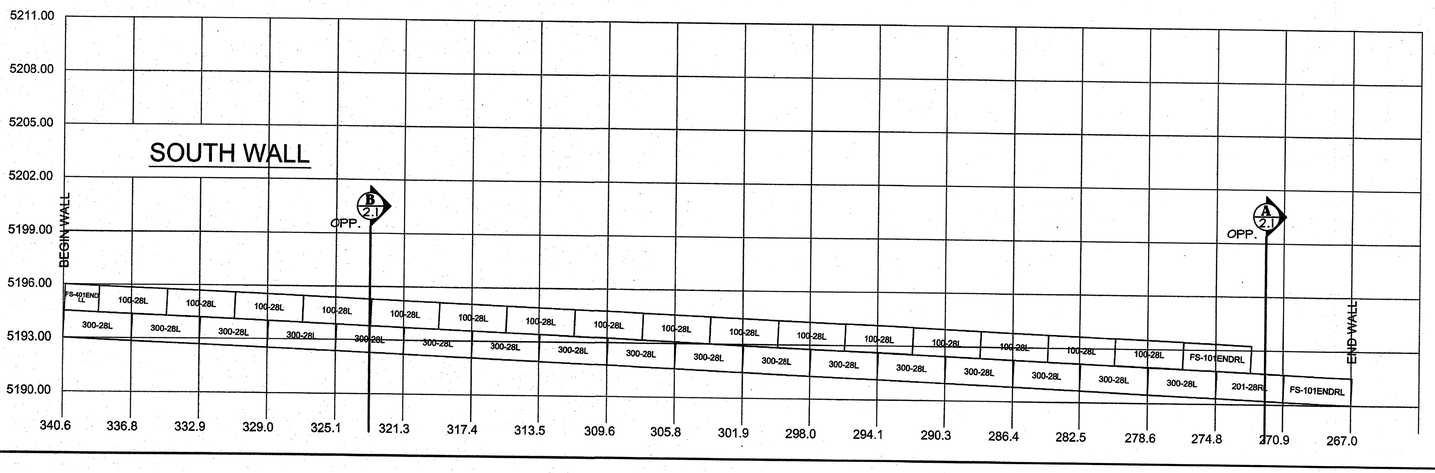
SHEET
0.1

NOTE: ALL ELEVATIONS ARE OF THE FRONT OF THE BLOCKS *** WALL ELEVATION SCALE: 1/4"=1'-0" ***





STATIONS ARE SHOWN AT ℄ OF PROPOSED WALL
BEGIN WALL STATIONS MATCH SMITH ENGINEERING PLAN DRAWINGS



NO.	DATE	REVISION

ARCHITECTURAL PRECAST CONCRETE
MATERIALS, INC.
315 SOUTH HILL Rd. BERNALILLO, NM 87004
P. (505) 867-9255
F. (505) 867-4419
REDROCK

ENGINEER/SPECIFIER:
SMITH ENGINEERING

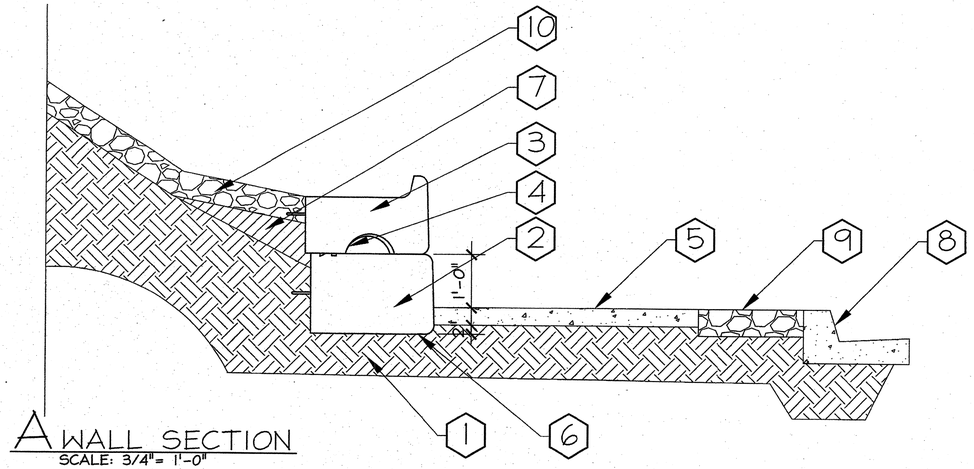
CONTRACTOR:
RMCI

ALAMEDA RETAINING WALL
WALL ELEVATIONS

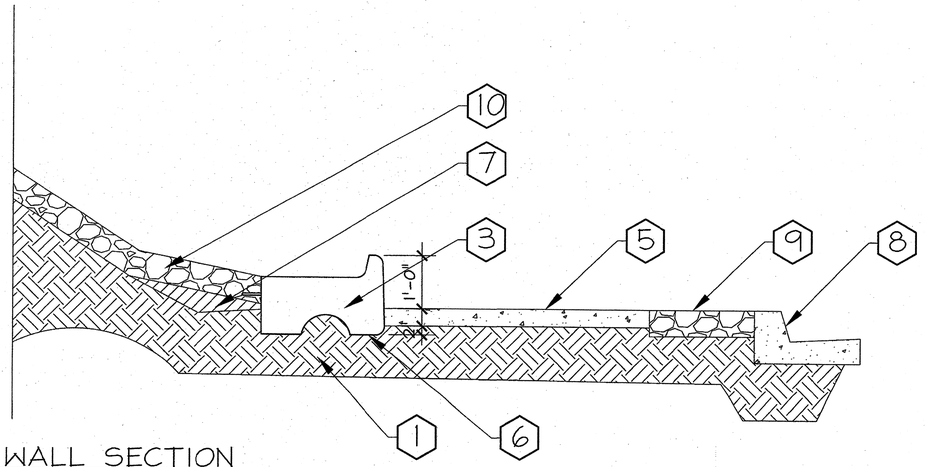
DONALD A. MacCOLL
NEW MEXICO
8638
REGISTERED PROFESSIONAL ENGINEER
12-24-14

QUOTE NO:
WORK ORDER NO. 13XXX
DRAWN BY: JDE
CHECKED BY:
PLOT DATE: 12/16/13

SHEET
1.1



A WALL SECTION
SCALE: 3/4"= 1'-0"



B WALL SECTION
SCALE: 3/4"= 1'-0"

GENERAL NOTES

1. INTERFACE BETWEEN BLOCKS SHALL BE FREE OF DEBRIS PRIOR TO PLACEMENT OF BLOCK ABOVE

KEYED NOTES

1. COMPACTED SUBGRADE TO 95% OF STANDARD PROCTOR OR 90% OF MODIFIED PROCTOR
2. 28" BOTTOM BLOCK
3. 28" TOP BLOCK
4. MOVE BLOCKS FORWARD DURING INSTALLATION TO ENGAGE SHEER KNOBS (TYPICAL)
5. EXISTING SIDEWALK
6. INSTALL THE BOTTOM OF REDI-ROCK 2" BELOW THE BOTTOM OF THE 4" THICK SIDEWALK.
7. EARTHEN FILL MATERIAL (BY OTHERS)
8. EXISTING CURB & GUTTER
9. 2"-4" (BIN #12) DUKE CITY BROWN FRACTURED FACE ROCK W/ WEED STOP FABRIC UNDER ROCK (BY OTHERS)
10. 2"-4" GRAVEL MULCH (FRACTURED FACE). NO FILTER FABRIC. SAN PEDRO STANDARD FROM LAFARGE, NORTH AMERICA.

NO.	DATE	REVISION

ARCHITECTURAL PRECAST CONCRETE
MATERIALS, INC.
315 SOUTH HILL Rd. P. (505) 867-9295
BERNALILLO, NM 87004 F. (505) 867-4491
REDI-ROCK NPCA CERTIFIED PLANT

ENGINEER/SPECIFIER:
SMITH ENGINEERING

CONTRACTOR:
RMCI

ALAMEDA RETAINING WALL WALL SECTIONS

RONALD A. MCCONNACK NEW MEXICO 8638 REGISTERED PROFESSIONAL ENGINEER 1/21/14

QUOTE NO:
WORK ORDER NO. 13XXX
DRAWN BY: JDE
CHECKED BY:
PLOT DATE: 1/20/14

SHEET
2.1