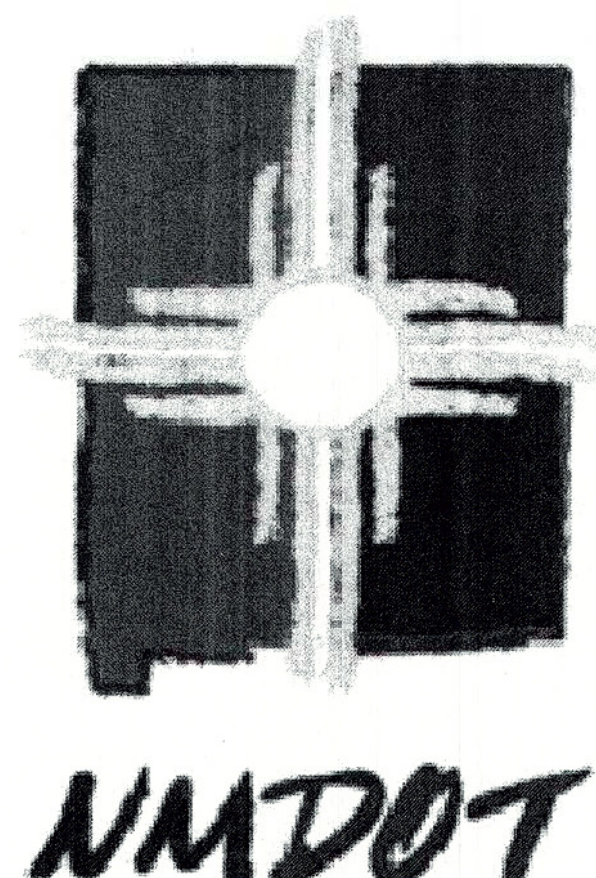




COA PROJECT #7690.91

PCN: C6G17

PN: SP-GA-5371(200)

CITY OF ALBUQUERQUE CONSTRUCTION PLANS FOR

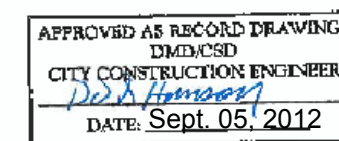
86TH STREET AND SAGE ROAD IMPROVEMENTS

JANUARY, 2011

SURVEYOR'S CERTIFICATION

I, WILL PLOTNER JR., 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 RECORD DRAWINGS.

WILL PLOTNER JR., NMPS 14271



GENERAL

- 1 COVER SHEET
- 2 KEY MAP
- 3-4 NOTES & DETAILS

ROADWAY

- 5 PLAN & PROFILE 86TH ST. STA 12+75.00 TO STA 17+00.00
- 6 PLAN & PROFILE 86TH ST. STA 17+00.00 TO STA 21+00.00
- 7 PLAN & PROFILE 86TH ST. STA 21+00.00 TO STA 25+00.00
- 8 PLAN & PROFILE 86TH ST. STA 25+00.00 TO STA 29+00.00
- 9 PLAN & PROFILE 86TH ST. STA 29+00.00 TO STA 33+00.00
- 10 PLAN & PROFILE 86TH ST. STA 33+00.00 TO STA 37+00.00
- 11 PLAN & PROFILE SAGE RD. STA 16+00.00 TO STA 20+00.00
- 12 PLAN & PROFILE SAGE RD. STA 20+00.00 TO STA 24+00.00
- 13 STAKING SHEET INTERSECTION OF 86TH ST. AND SAGE RD.
- 14-15 SIDEWALK RAMP DETAILS
- 16 TRAFFIC CALMING DETAIL

STORM DRAIN

- 17 STORM DRAIN DETAILS
- 18 PLAN & PROFILE SAGE RD.
- 19 PLAN & PROFILE 86TH ST. STA 24+59.18 TO STA 27+25.00
- 20 PLAN & PROFILE 86TH ST. STA 27+25.00 TO STA 30+50.00
- 21 PLAN & PROFILE 86TH ST. STA 30+50.00 TO STA 33+00.00
- 22 PLAN & PROFILE 86TH ST. STA 33+00.00 TO STA 35+04.92
- 23 PLAN & PROFILE DETAIL "A" AND DETAIL "B"

SIGNING & STRIPING

- 24 SIGNING & STRIPING 86TH ST. STA 10+00.00 TO 17+00.00
- 25 SIGNING & STRIPING 86TH ST. STA 17+00.00 TO 25+00.00
- 26 SIGNING & STRIPING 86TH ST. STA 25+00.00 TO 33+00.00
- 27 SIGNING & STRIPING 86TH ST. STA 33+00.00 TO 36+00.00 & SAGE ROAD 16+00.00 TO 19+15.00
- 28 SIGNING & STRIPING SAGE RD. STA 20+70.00 TO 22+34.46

INDEX OF DRAWINGS

TRAFFIC SIGNAL

- 29 NOTES
- 30 PLAN SHEET 86TH ST. AND SAGE RD.
- 31 DETAIL SHEET

STREET LIGHT

- 32 NOTES
- 33 PLAN SHEET 86TH ST. STA 23+00.00 TO 36+50.00

TEMPORARY TRAFFIC CONTROL

- 34 NOTES & LEGEND
- 35 PHASE 1 86TH ST. STA 10+00.00 TO 23+00.00
- 36 PHASE 1A 86TH ST. STA 25+00.00 TO 30+00.00
- 37 PHASE 1A 86TH ST. STA 30+00.00 TO 34+50.00
- 38 PHASE 1B 86TH ST. STA 25+00.00 TO 30+00.00
- 39 PHASE 1B 86TH ST. STA 30+00.00 TO 34+50.00
- 40 PHASE 1 86TH ST. STA 34+50.00 TO 44+40.00
- 41 PHASE 1 SAGE RD. STA -0+72.00 TO 22+50.00
- 42 PHASE 1 SAGE RD. STA 22+50.00 TO 39+02.00
- 43 PHASE 2 86TH ST. STA 10+00.00 TO 23+00.00
- 44 PHASE 2 86TH ST. STA 25+00.00 TO 34+50.00
- 45 PHASE 2 86TH ST. STA 34+50.00 TO 44+40.00
- 46 PHASE 2 SAGE RD. STA -0+79.00 TO 22+50.00
- 47 PHASE 2 SAGE RD. STA 22+50.00 TO 35+27.00 & PHASE 3 86TH ST. STA 10+00.00 TO 22+65.00

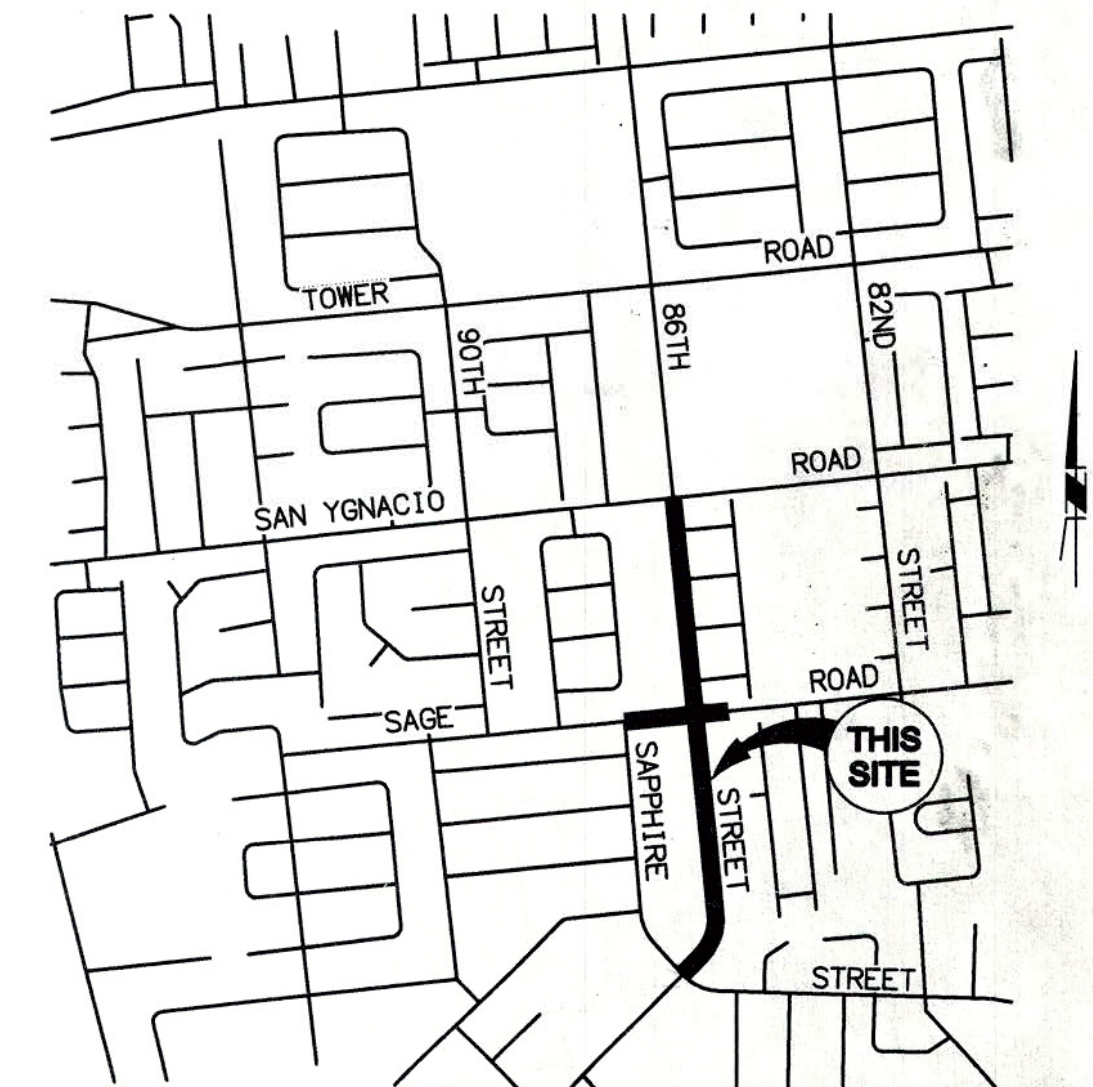
I, THE UNDERSIGNED, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE INDICATED RECORD DRAWINGS ARE BASED UPON INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR IN THE FORM OF RED-LINED CONSTRUCTION DRAWING MARKUPS TO THE ORIGINAL DESIGN DRAWINGS. THE TRANSFER 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.

NAME _____ DATE 7/24/12

BENCH MARKS

COA SURVEY CONTROL DISK STAMPED "24_L9 2002"
LOCATED 35' WEST OF Q OF 86TH STREET S.W. AND
36.4' NORTH OF Q OF SAGE ROAD S.W.
GEOGRAPHIC POSITION (NAD 1983)
NM STATE PLANE GRID COORDINATES (CENTRAL ZONE)
X=1,496,841.495 Y=1,476,602.813
GROUND TO GRID FACTOR = 0.999683755
DELTA ALPHA = -00°16'32.09"
ELEVATION = 5096.97 (NAVD 1988)

COA SURVEY CONTROL DISK STAMPED "23_L9 2002"
LOCATED 24.6' EAST OF Q OF 86TH STREET S.W.
AND 43.6' NORTH OF Q OF SAN YGNACIO ROAD S.W.
GEOGRAPHIC POSITION (NAD 1983)
NM STATE PLANE GRID COORDINATES (CENTRAL ZONE)
X=1,496,792.355 Y=1,477,722.705
GROUND TO GRID FACTOR = 0.999683304
DELTA ALPHA = -00°16'32.54"
ELEVATION = 5106.482 (NAVD 1988)

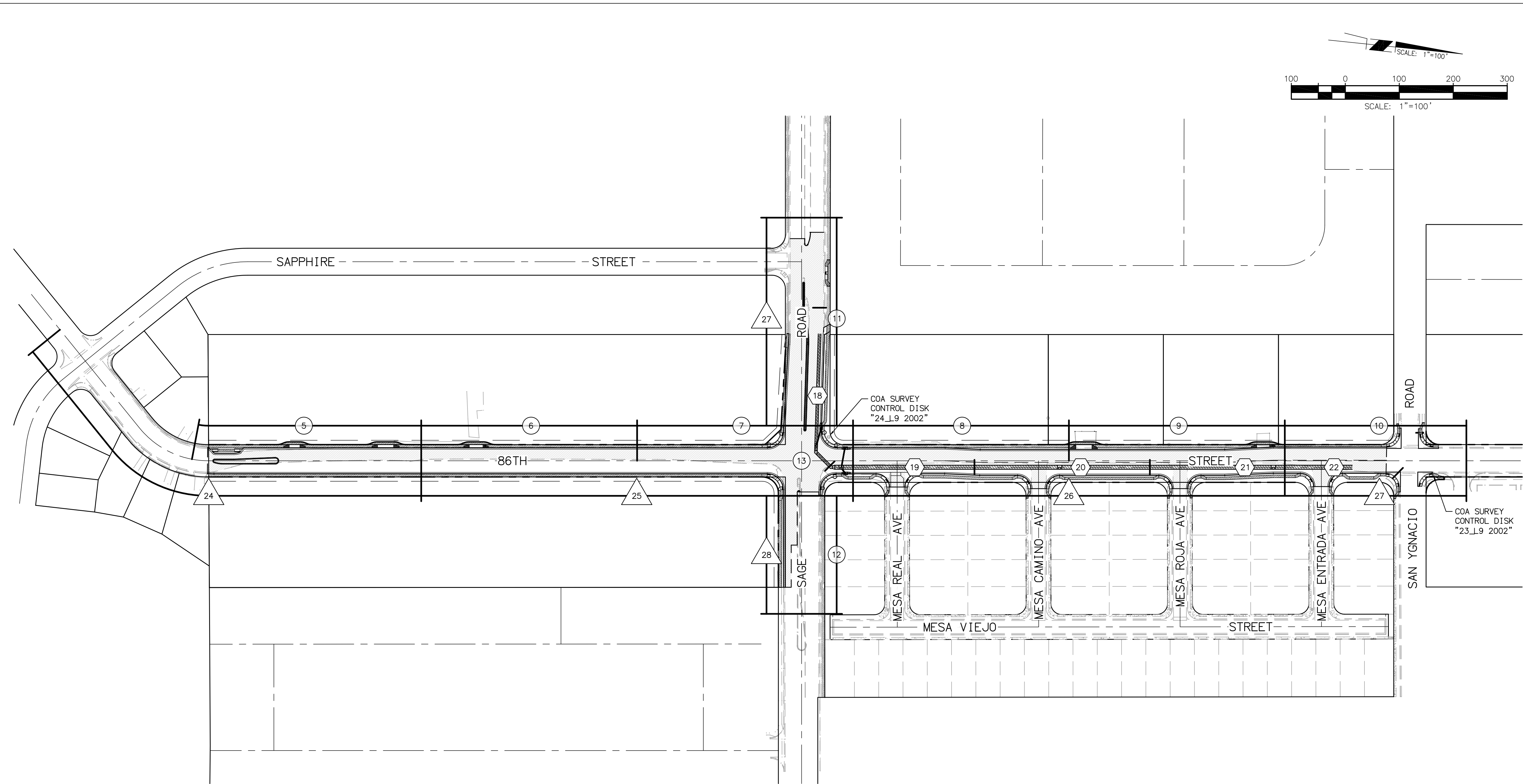
VICINITY MAP
NTS
ZONE MAPS L-9 & M-9

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	OFFICE PHONE: 1-800-568-8405 helpdesk@edflex.com	REDFLEX

APPROVED FOR RECORD DRAWING: _____
ABCWUA ENGINEER

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		[Signature]		9/1/11	
		Transportation		[Signature]		5/25/11	
		Water/Wastewater		[Signature]		8-30-11	
		Hydrology		[Signature]		1/25/11	
		Parks		[Signature]		9-01-11	
		Const. Mngmt.					
		Const. Coord.					
		NMUI					
DRB CASE NUMBER		CITY PROJECT NO.		7690.91		SHEET 1 OF 47	



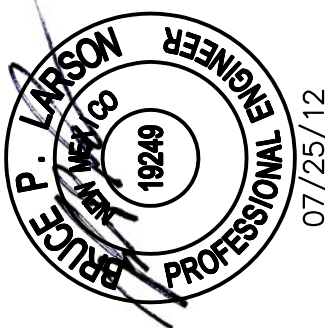
LEGEND

- 5 PAVING PLAN AND PROFILE SHEETS
- 19 SIGNING AND STRIPING SHEETS
- 14 STORM DRAIN PLAN AND PROFILE SHEETS

RBF CONSULTING PLANNING ■ DESIGN ■ CONSTRUCTION
16605 NORTH 28th AVENUE, SUITE 100
PHOENIX, ARIZONA 85032-2602
602.467.2200 • FAX 602.467.2201 • www.RBF.com

CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION	
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPHIRE STREET AND SAN YGNACIO ROAD KEY MAP	
Design Review Committee	City Engineer Approval
City Project No. 7690.91	Zone Map No. L-9 & M-9
Sheet 2	Of 47

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	REFER TO COVER FOR BENCH MARKS	CONTRACTOR	DATE
				WORK	DATE
				STANDARD	DATE
				ACCEPTANCE BY	DATE
				FIELD REVISION BY	DATE
				DRAWINGS	DATE
				CORRECTED BY	DATE
				MICRO-FILM INFORMATION	DATE
				RECORDED BY	DATE
				NO.	



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 OF ALBUQUERQUE 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, HAVE THE CITY SURVEY SECTION 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, 1986 EDITION THROUGH UPDATE NO. 7 INCLUDING ALL SUBSEQUENT UPDATES AND AMENDMENTS.
4. ALL NEW MANHOLES SHALL BE TYPE "E" PER CITY OF ALBUQUERQUE STANDARD DRAWINGS 2102 UNLESS OTHERWISE NOTED ON THE PLANS. ALL SANITARY SEWER MANHOLE ADJUSTMENTS TO GRADE SHALL INCLUDE A NEW CONCRETE COLLAR, ELECTRONIC MARKING DEVICE (SPHERE EMD), AND A NEW RING AND COVER TO COMPLY WITH CURRENT STANDARD DRAWINGS. PAYMENT SHALL BE PER ADJUSTMENT AT THE CONTRACT UNIT PRICE.
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 IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH. ALL SANITARY SEWER MANHOLE AND WATER VALVE CAN ADJUSTMENTS TO GRADE SHALL INCLUDE A NEW CONCRETE COLLAR, ELECTRONIC MARKING DEVICE (SPHERE EMD), AND A NEW RING AND COVER TO COMPLY WITH CURRENT STANDARD DRAWINGS. PAYMENT SHALL BE PER ADJUSTMENT AT THE CONTRACT UNIT PRICE.
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. ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
9. 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.
10. 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.
11. WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, 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.
12. ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH CITY UTILITY COORDINATOR.
13. WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE FIELD ENGINEER.
14. THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.
15. CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 8 FEET IN WIDTH OR WIDER.
16. CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC.
17. CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.
18. MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 24 INCHES. BEDDING MATERIAL SHALL BE CLASS II, III, OR IV UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.
19. MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 18 INCHES. BEDDING MATERIAL SHALL BE CLASS I, II OR III.
20. 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.
21. THE CONTRACTOR SHALL CONSTRUCT CITY OF ALBUQUERQUE STANDARD WHEELCHAIR RAMPS THAT CONFORM TO CURRENT ADA REQUIREMENTS.
22. 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 PROJECT ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
23. 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. MAINTENANCE OF THE TEMPORARY PAVING WILL BE AT THE CONTRACTOR'S EXPENSE.
24. TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.
25. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

GENERAL NOTES (CONT.)

26. ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
27. 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 SIDEWALKS, ARROWS AND LIEN MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD (PERFORM THERMO) PLASTIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
28. 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 CITY FIELD ENGINEER.
29. 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.
30. EXISTING MEDIAN CURB AND GUTTER AND 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 CITY FIELD ENGINEER AND PAID FOR AT CONTRACT UNIT PRICES.
31. 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.
32. ALL UTILITY 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 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.
33. 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.
34. ALL INTERFACING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
35. SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.
36. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.
37. THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.
38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.
39. ALL REINFORCING STEEL TO BE GRADE 60 UNLESS OTHERWISE NOTED ON PLANS.
40. STATIONS OF STORM DRAIN INLETS ARE TO THE CENTER OF GRATE.
41. ALL STORM DRAIN AND CONNECTOR PIPE WILL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.
42. EXCESS EXCAVATION REQUIRED TO CONSTRUCT THE PROJECT THAT DOES NOT HAVE A CORRESPONDING BID ITEM (IE: EXCAVATION OF SUBGRADE OR DIRT) SHALL BE REMOVED AND DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER AND WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
43. EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650, SUBPART P.
44. CONTRACTOR IS ADVISED TO VISIT THE PROJECT SITE PRIOR TO BIDDING AND FAMILIARIZE THEMSELVES WITH FIELD CONDITIONS INCLUDING THE LOCATION OF UTILITIES SHOWN ON THE PLANS AND OTHER UTILITIES/OBSTACLES CLEARLY VISIBLE IN THE FIELD.
45. 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.
46. REMOVAL AND DISPOSAL OF EXISTING ASBESTOS PIPE MATERIAL SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL GOVERNMENTAL LAWS AND REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL ASBESTOS PIPE MATERIAL AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIAL.
47. ALL NEW STORM INLETS SHALL BE TYPE "A" PER CITY OF ALBUQUERQUE STANDARD DRAWINGS 2201 AND 2202 UNLESS OTHERWISE NOTED ON THE PLANS. ALL STORM INLET GRATES SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARD DRAWING 2220.
48. IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE MEASURES TO PREVENT ABRUPT DROP-OFFS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

LEGEND

- EX 8"W

EXISTING WATER
- EX 8"S

EXISTING SEWER
- STREET SIGN BASE
- DRIVEWAY
- INDICATES GRADE BREAK
- STA OFF
P=

CENTERLINE STATIONING
OFFSET FROM CENTERLINE
PAVEMENT ELEVATION
- STA OFF
TC=
G=

CENTERLINE STATIONING
OFFSET FROM CENTERLINE
TOP OF CURB ELEVATION
GUTTER ELEVATION
- SIDEWALK
- EXISTING IMPROVEMENTS
- EX FO

EXISTING FIBER OPTIC LINE
- EX G

EXISTING GAS LINE
- EX OHE

EXISTING OVERHEAD ELECTRIC LINE
- ASPHALT TO BE REMOVED
- 2.00%

STREET SLOPE
- SHEET BOUNDARY
- 5095

EXISTING CONTOURS
- STORM DRAIN
- LIMITS OF GRADING
- RIGHT-OF-WAY
- TEST HOLE LOCATION

ABBREVIATIONS

- BC1

BACK OF CURB CURVE DATA
- C1

CURVE DATA
- L1

LINE DATA
- CL

CENTER LINE
- R/W

RIGHT OF WAY
- ESMT

EASEMENT
- PUE

PUBLIC UTILITY EASEMENT
- L/S

LANDSCAPE
- B/C

BACK OF CURB
- S/W

SIDEWALK
- VG=

VALLEY GUTTER
- P=

PAVEMENT ELEVATION
- INV=

INVERT ELEVATION
- GB

GRADE BREAK
- LT

LEFT
- RT

RIGHT
- EX

EXISTING
- PR

PROPOSED
- COA STD
DWG

CITY OF ALBUQUERQUE
STANDARD DRAWING
- TH

TEST HOLE

RBF

CONSULTING

PLANNING

DESIGN

CONSTRUCTION

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CITY OF ALBUQUERQUE

MUNICIPAL DEVELOPMENT DEPARTMENT

TRANSPORTATION DEVELOPMENT DIVISION

TITLE:

86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
NOTES & DETAILS

Design Review Committee

City Engineer Approval

Mo./Day/Yr.

Mo./Day/Yr.

City Project No.

7690.91

Zone Map No.

L-9 & M-9

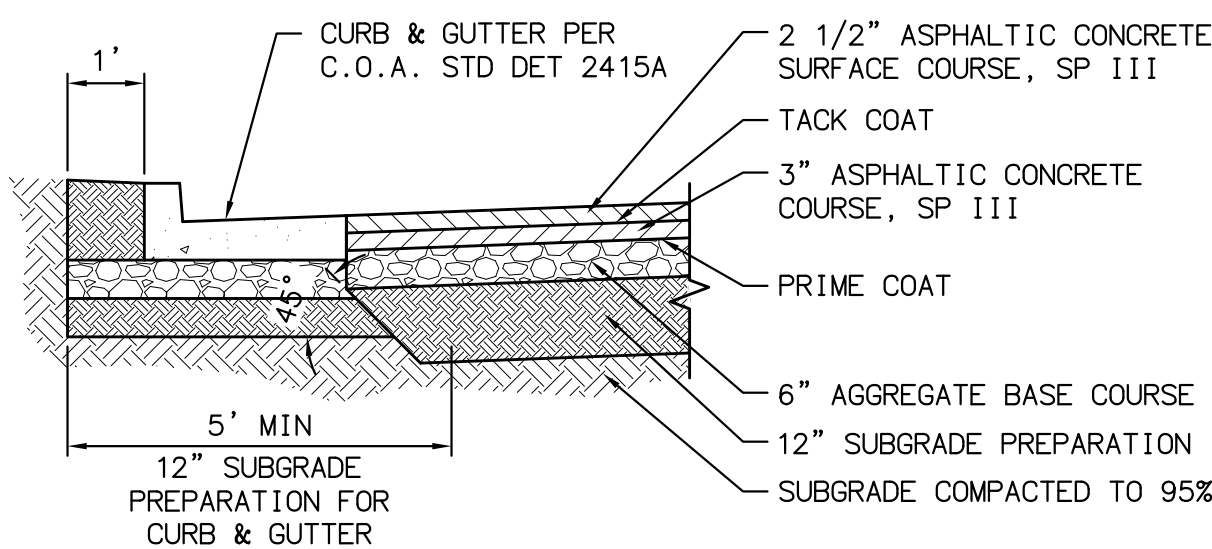
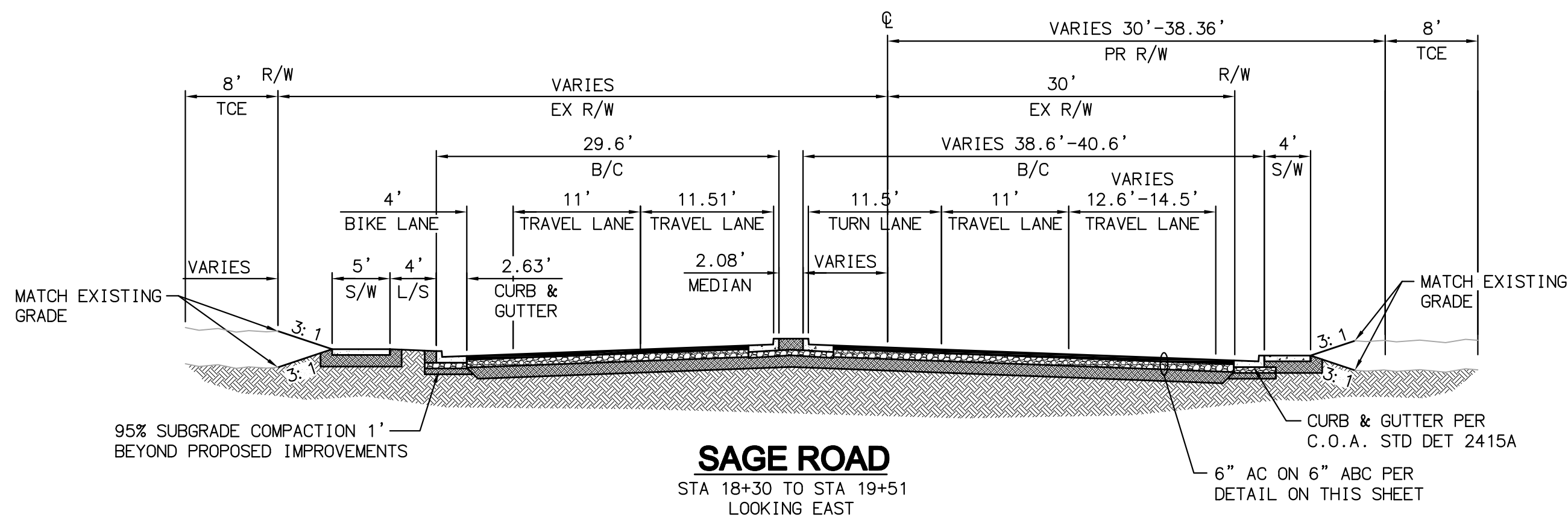
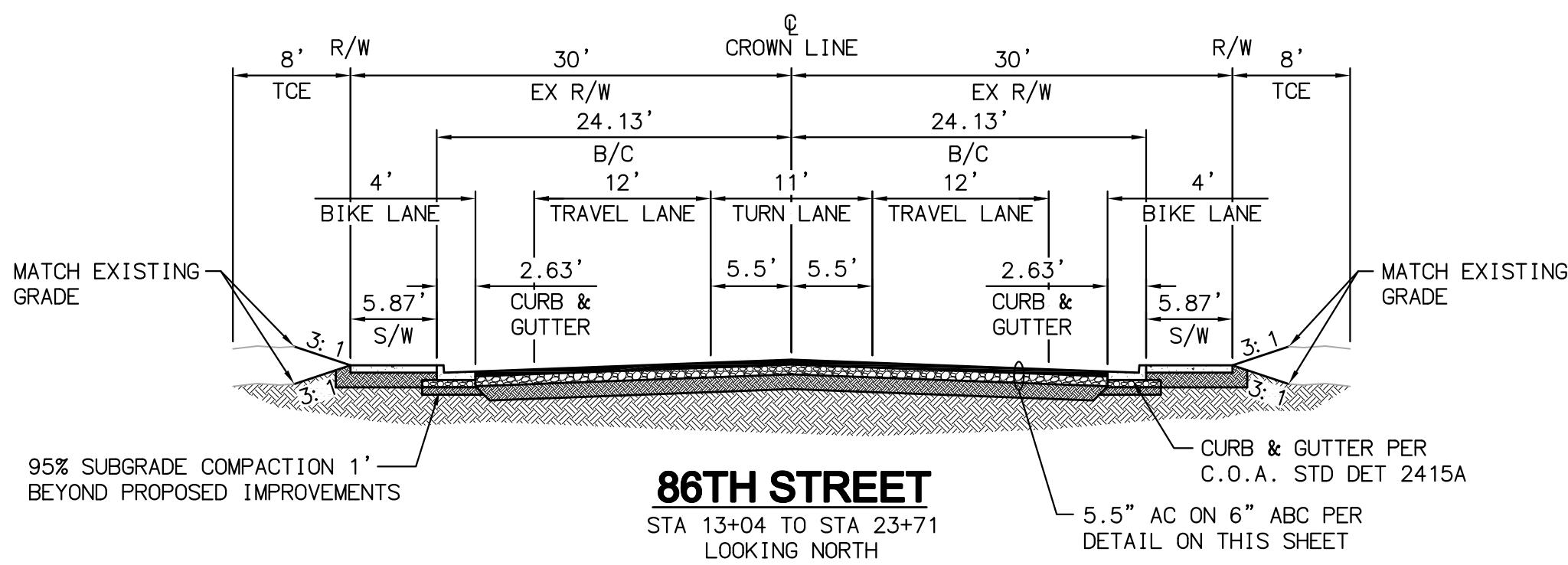
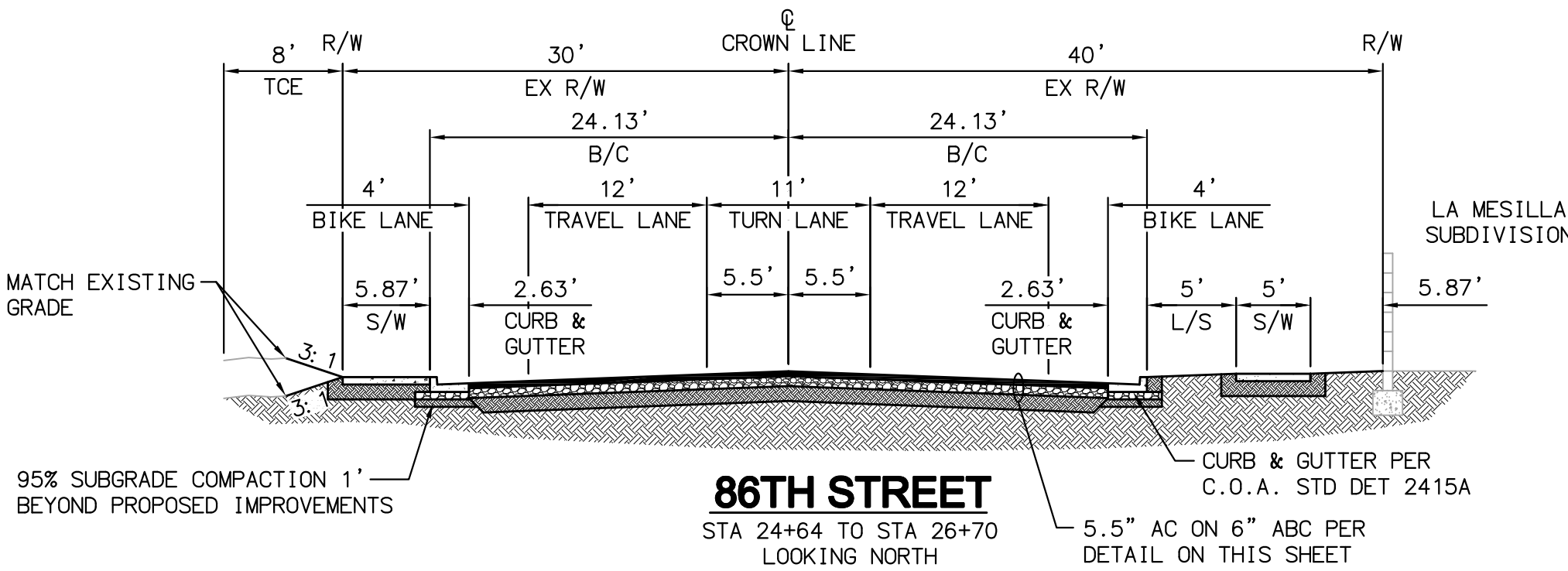
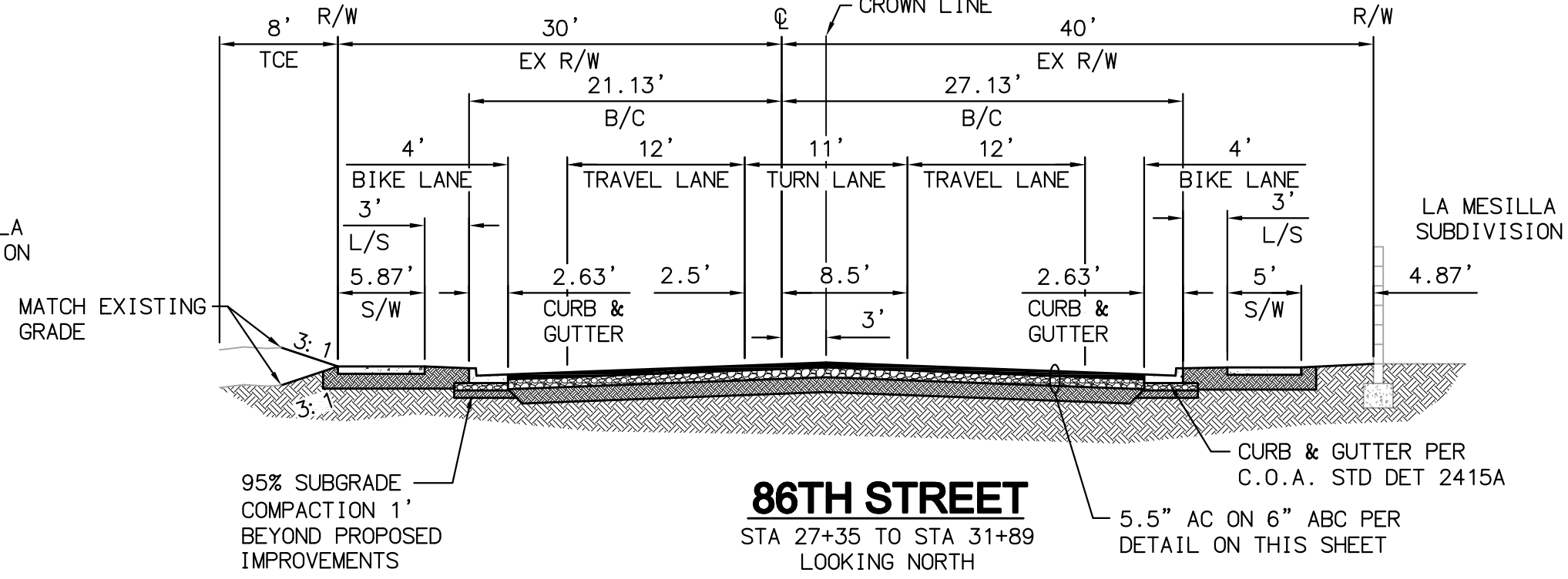
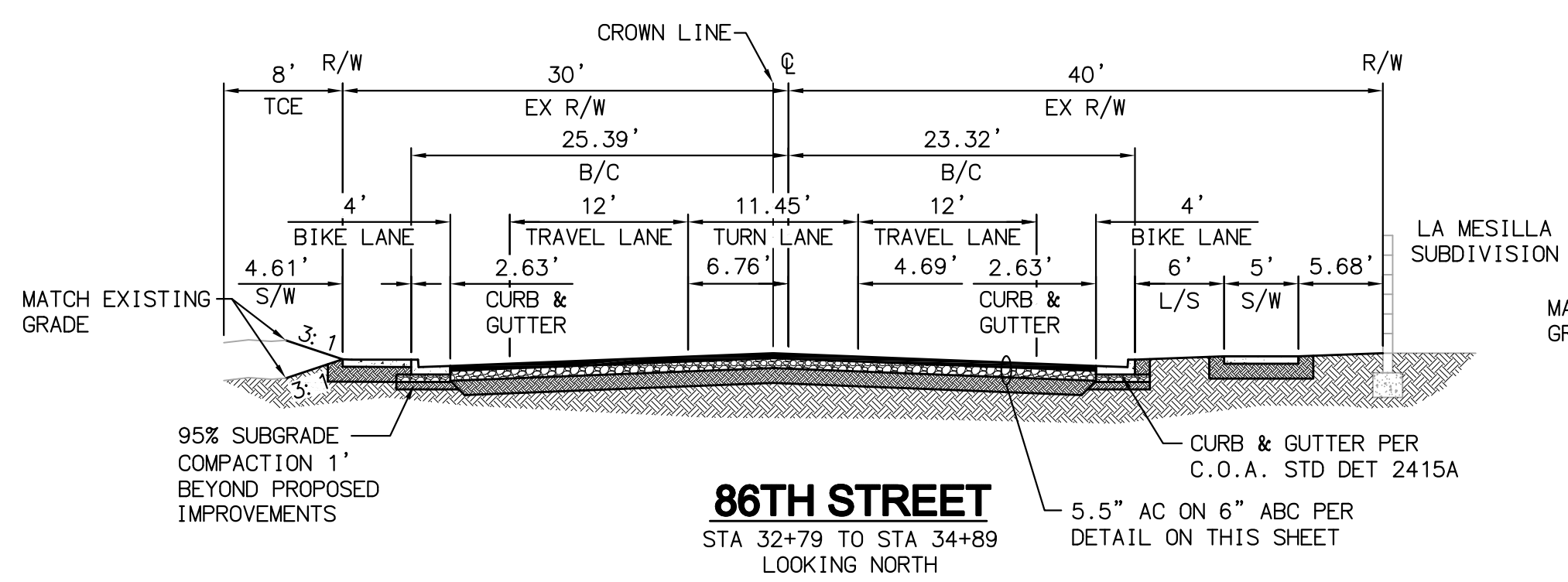
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Of

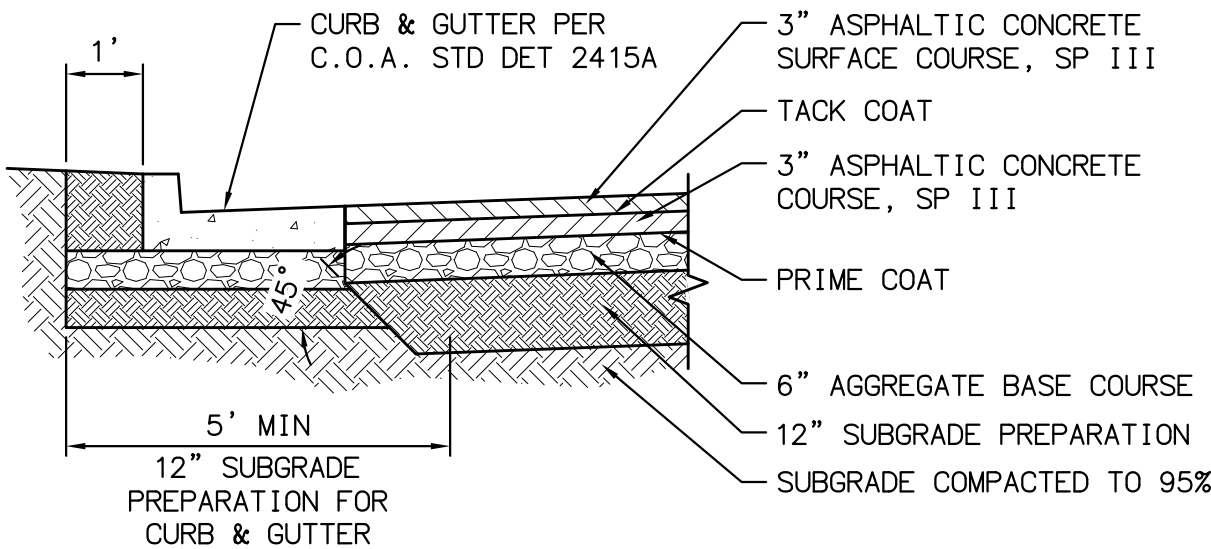
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RECORD DRAWING



86TH STREET PAVEMENT SECTION
NTS

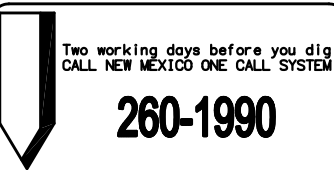
PAVING QUANTITIES	STRUCTURAL COEFFICIENT/IN.	STRUCTURAL NUMBER
2 1/2" SP III	0.42	1.050
3" SP III	0.42	1.260
6" AGGREGATE BASE COURSE R-VALUE = 47	0.10	0.600
TOTAL		2.910



SAGE ROAD PAVEMENT SECTION
NTS

NOTE:
SUBGRADE R-VALUE OF ≥ 47 . IF SUBGRADE R-VALUE IS < 47 THAN CONTRACTOR IS TO REMOVE TO A DEPTH OF 2' AND REPLACE WITH SUITABLE MATERIAL.

PAVING QUANTITIES	STRUCTURAL COEFFICIENT/IN.	STRUCTURAL NUMBER
3" SP III	0.42	1.260
3" SP III	0.42	1.260
6" AGGREGATE BASE COURSE R-VALUE = 47	0.10	0.600
TOTAL		3.120



86TH STREET	SAGE ROAD
PAVING QUANTITIES	
ASPHALT	9,997 SY
TACK COAT	9,997 SY
SIDEWALK	2,465 SY
CURB AND GUTTER	3,842 LF
RAMPS	16 EA
DRIVE PAD	132 SY
MEDIAN CURB	250 LF
REMOVE ASPHALT	8,425 SY
SAWCUT	263 LF
REMOVE CONCRETE	236 SY
WATER METER BOX	2 EA
RELOCATE FIRE HYDRANT	1 EA
STORM DRAIN QUANTITIES	
18" RGRCP STORM DRAIN	46 LF
60" RGRCP STORM DRAIN	-
90" RGRCP STORM DRAIN	966 LF
4' DIA TEE MANHOLE W/O SAFETY LEDGE TYPE E	1 EA
4' DIA TEE MANHOLE W/O SAFETY LEDGE TYPE C	1 EA
4' DIA TEE MANHOLE W/ SAFETY LEDGE TYPE E	1 EA
STORM INLET	2 EA
SIGNING & STRIPING QUANTITIES	
OBLITERATE EXISTING STRIPING	290 LF
PAVEMENT MARKING 4" WHITE	843 LF
PAVEMENT MARKING 4" YELLOW	5,700 LF
PAVEMENT MARKING 6" WHITE	4,234 LF
PAVEMENT MARKING 12" WHITE	194 LF
PAVEMENT MARKING 24" WHITE	117 LF
PAVEMENT MARKING LEFT ARROW	9 EA
PAVEMENT MARKING THROUGH BIKE ARROW	12 EA
PAVEMENT MARKING "ONLY"	6 EA
PAVEMENT MARKING BICYCLE SYMBOL	12 EA
PAVEMENT MARKING BULLNOSE	54 SF
ALUMINUM PANEL SIGN	80 SF
SIGN POST AND BASE	48 LF
SIGN POST AND BASE RELOCATES	7 EA
PAVEMENT MARKING "XING"	-

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS	
CONTRACTOR	DATE	REFER TO COVER FOR BENCH MARKS	NO.	BY	DATE	REMARKS	DATE	BY	DATE
WORK	DATE								
STATED BY	DATE								
ACCEPTANCE BY	DATE								
FIELD REVISION BY	DATE								
DRAWINGS	DATE								
CORRECTED BY	DATE								
MICRO-FILM INFORMATION	DATE								
RECORDED BY	DATE								
NO.									

ENGINEER'S SEAL

P. LARSEN
1928
REGISTERED PROFESSIONAL ENGINEER
07/25/12

1	1/12	REVISED SOUTHEAST RAMP	REMARKS	DATE: 08/29/11
			REVISIONS	DATE: 08/29/11
				DATE: 08/29/11

City Project No. 7690.91

Zone Map No. L-9 & M-9

Sheet 4 Of 47

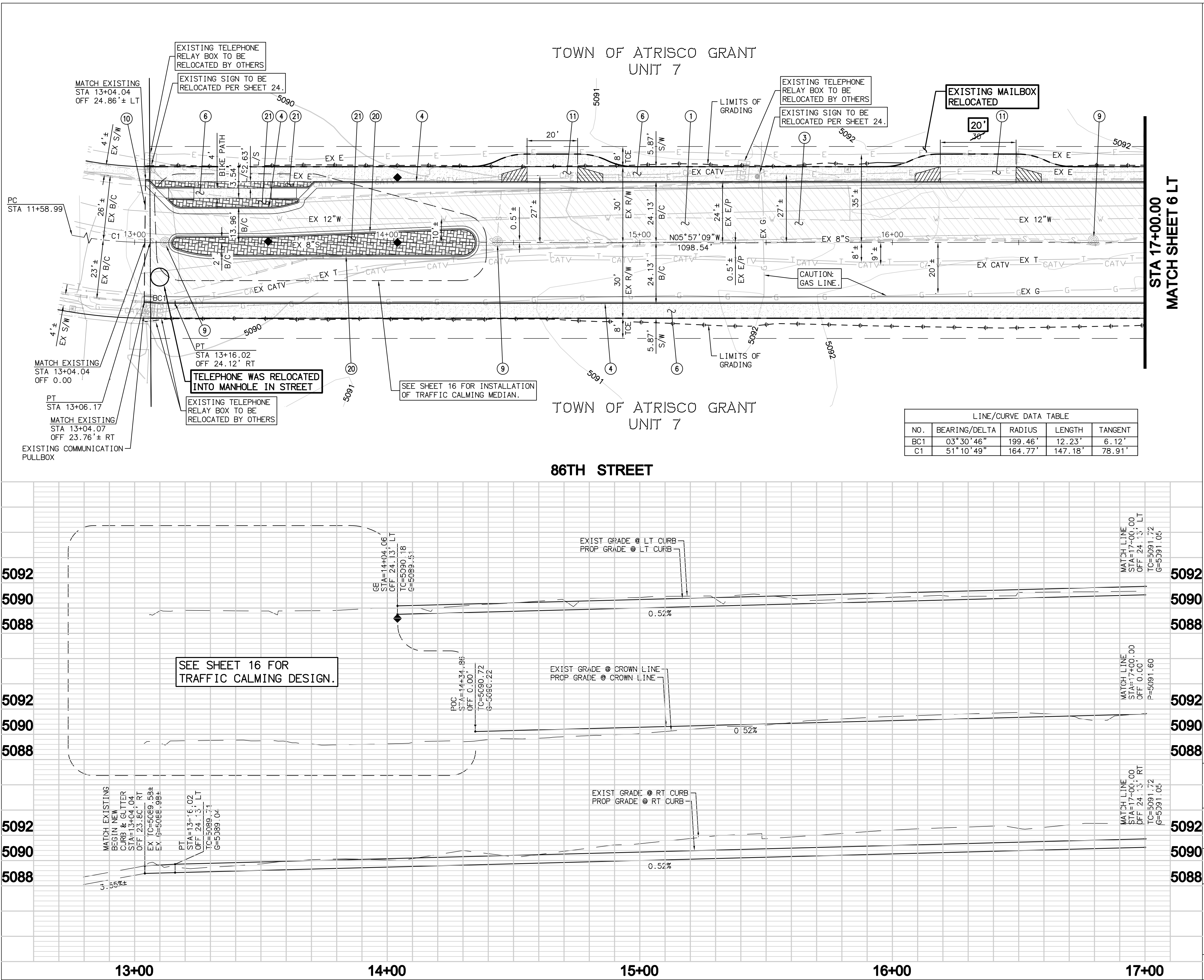


CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
NOTES & DETAILS

Design Review Committee City Engineer Approval

City Project No. 7690.91 Zone Map No. L-9 & M-9

Sheet 4 Of 47



CONSTRUCTION NOTES

- INSTALL 5.5" AC ON 6" ABC.
- REMOVE EXISTING ASPHALT & ASPHALT CURB.
- INSTALL STANDARD 8" CURB AND GUTTER PER C.O.A. STD DET 2415A.
- INSTALL SIDEWALK PER C.O.A. STD DET 2430. WIDTH PER PLAN.
- ADJUST TO GRADE PER C.O.A. STD DET 2460.
- SAWCUT EXISTING PAVEMENT TO NEAT CLEAN EDGE.
- INSTALL DRIVE PAD PER MODIFIED C.O.A. STD DET 2425, SEE DETAIL ON SHEET 15. WIDTH PER PLAN.
- INSTALL MEDIAN INVERTED CURB & GUTTER PER C.O.A. STD DET 2415B.
- INSTALL CONCRETE MEDIAN PAVING SECTION PER C.O.A. STD DET 2408 AND 2502. MEDIAN COLOR: GOLDEN HARVEST. PATTERN: ASHLAR SLATE.

LINE/CURVE DATA TABLE

NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
BC1	03°30'46"	199.46'	12.23'	6.12'
C1	51°10'49"	164.77'	147.18'	78.91'

AS BUILT INFORMATION

CONTRACTOR	DATE

BENCH MARKS

REFER TO COVER FOR BENCH MARKS	DATE

SURVEY INFORMATION

FIELD NOTES	NO.	BY	DATE

ENGINEER'S SEAL

P. LARSEN
REGISTERED PROFESSIONAL ENGINEER
19248
07/20/12

REVISIONS

NO.	DATE	REMARKS

DESIGNED BY: RER
DRAWN BY: DLP
CHECKED BY: DJP

DATE: 08/29/11
DATE: 08/29/11
DATE: 08/29/11

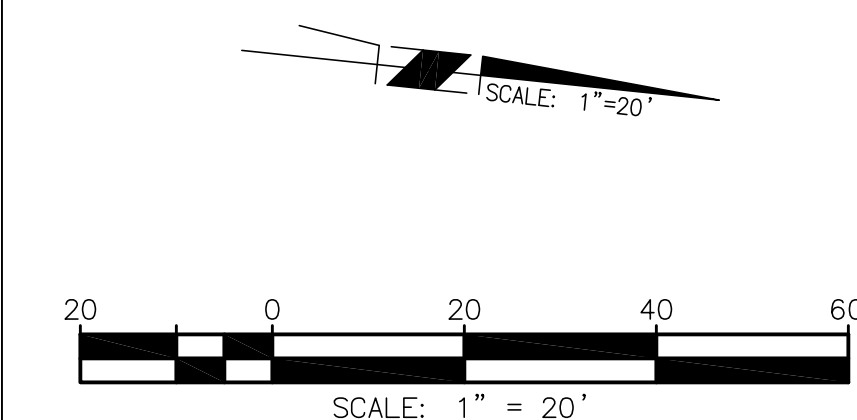
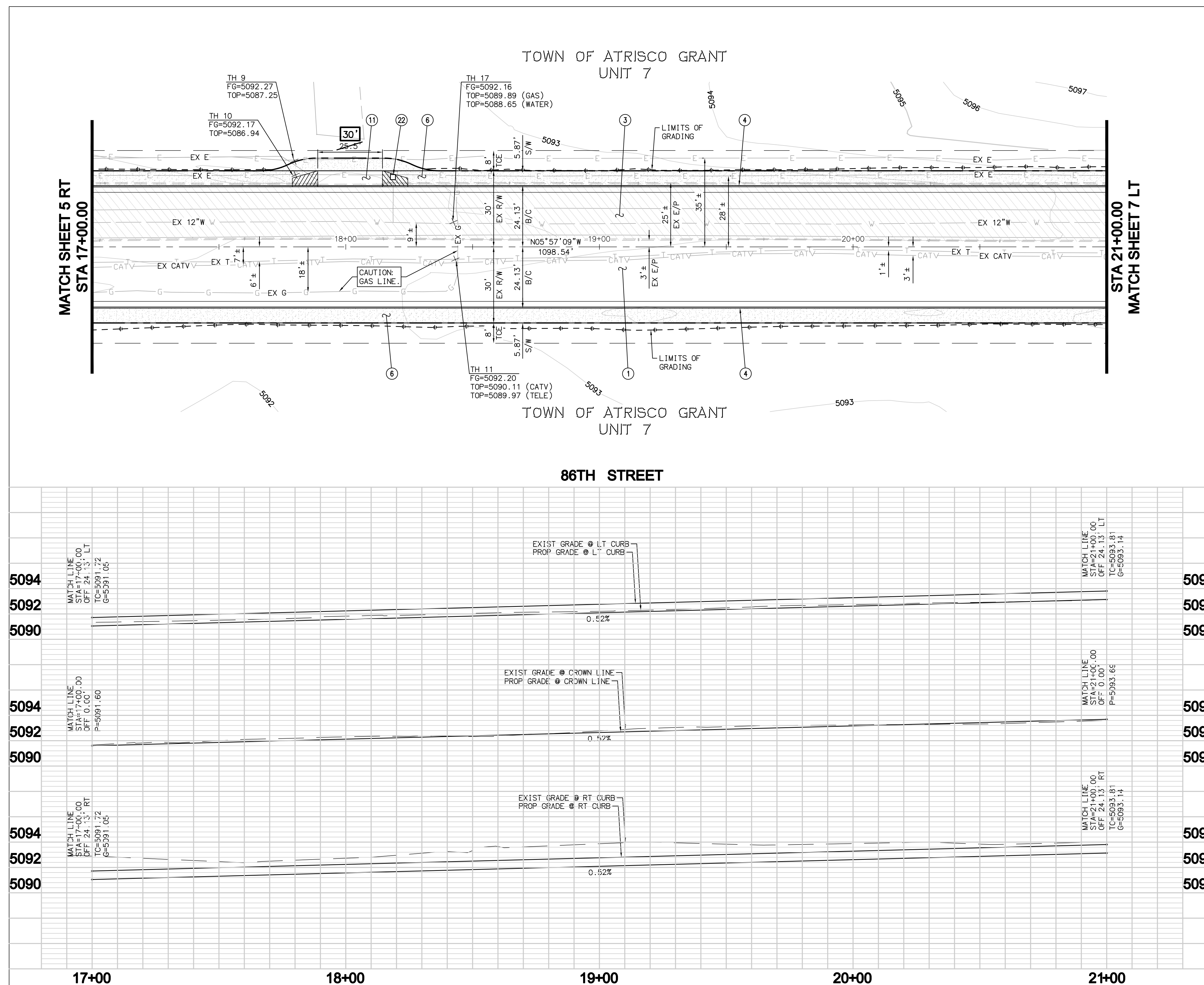
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE:
86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
PAVING PLANS

Design Review Committee City Engineer Approval

City Project No. 7690.91 Zone Map No. L-9 & M-9 Sheet 5 Of 47

RECORD DRAWING



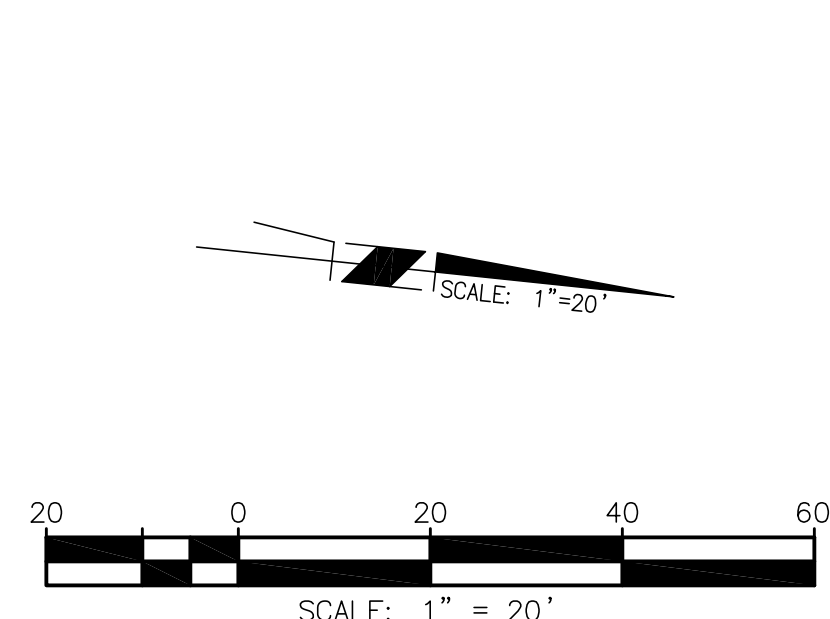
CONSTRUCTION NOTES

- ① INSTALL 5.5" AC ON 6" ABC.
- ③ REMOVE EXISTING ASPHALT & ASPHALT CURB.
- ④ INSTALL STANDARD 8" CURB AND GUTTER PER C.O.A. STD DET 2415A.
- ⑥ INSTALL SIDEWALK PER C.O.A. STD DET 2430. WIDTH PER PLAN.
- ⑪ INSTALL DRIVE PAD PER MODIFIED C.O.A. STD DET 2425, SEE DETAIL ON SHEET 15. WIDTH PER PLAN.
- ⑫ INSTALL TYPICAL METER BOX PER C.O.A. STD 2361 CASE 6.

1		1/12	REVISED SOUTHEAST RAMP	RE	ENGINEER'S SEAL	SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION		
						FIELD NOTES		REFER TO COVER FOR BENCH MARKS				
						NO.	BY	DATE				
		NO. DATE	REMARKS	BY								
		REVISIONS										
		DESIGNED BY:	RE	DATE: 08/29/11								
		DRAWN BY:	DLP	DATE: 08/29/11								
		MICRO-FILM INFORMATION										
					RECORDED BY:					DATE		
											NO.	

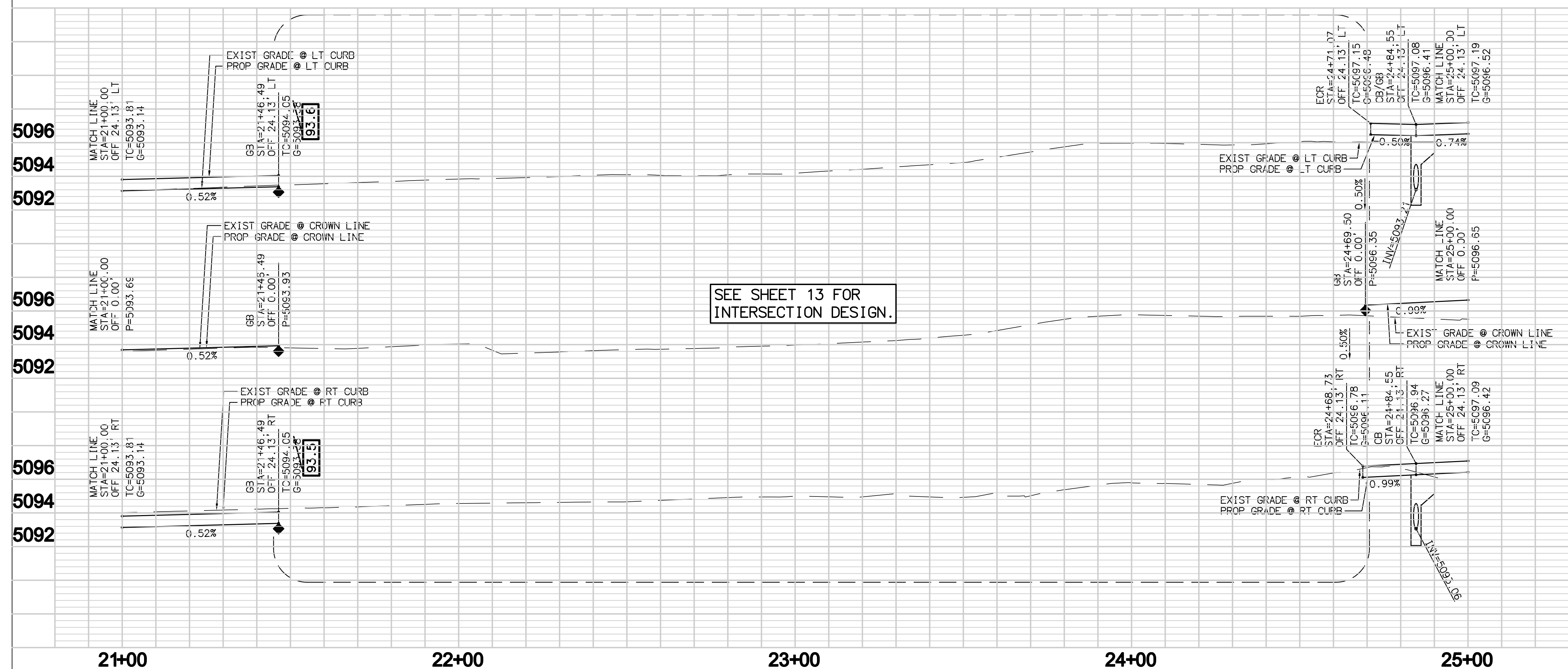
07/20/12

SHEET NO. _____ OF _____
PROJECT NO. _____
DATE: _____



- ① INSTALL 5.5" AC ON 6" ABC.
- ② INSTALL 6" AC ON 6" ABC.
- ③ REMOVE EXISTING ASPHALT & ASPHALT CURB.
- ④ INSTALL STANDARD 8" CURB AND GUTTER PER C.O.A. STD DET 2415A.
- ⑥ INSTALL SIDEWALK PER C.O.A. STD DET 2430. WIDTH PER PLAN.
- ⑦ INSTALL SIDEWALK RAMP PER NMDOT STD DET 608 TYPE "B" PARALLEL CURB RAMPS TWO DIRECTIONS. SEE DETAILS ON SHEETS 14 & 15.
- ⑨ ADJUST TO GRADE PER C.O.A. STD DET 2460.
- ⑪ INSTALL SIDEWALK TRANSITION PER C.O.A. STD DET 2432.

LINE/CURVE DATA TABLE				
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
BC1	86°45'42"	29.54'	44.73'	27.92'
BC2	91°46'42"	29.54'	47.32'	30.47'
BC3	89°48'03"	29.54'	46.30'	29.44'
BC4	90°00'50"	29.54'	46.41'	29.55'

[illegible]

ENGINEER'S SEAL

BRUCE P. LARRABEE
NEW MEXICO
19249
PROFESSIONAL ENGINEER

07/20/12

[illegible]

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PHOENIX, ARIZONA 85032-2602
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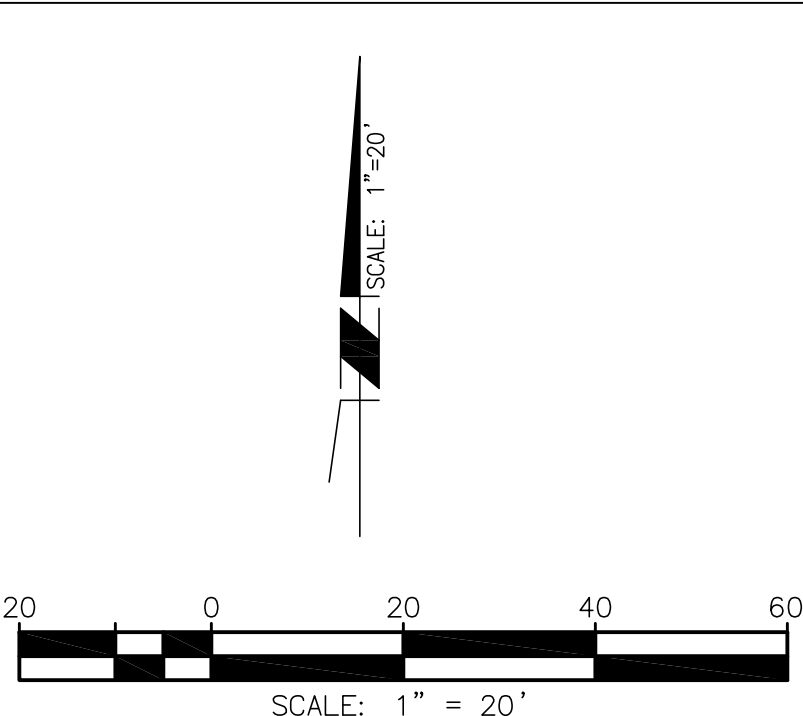
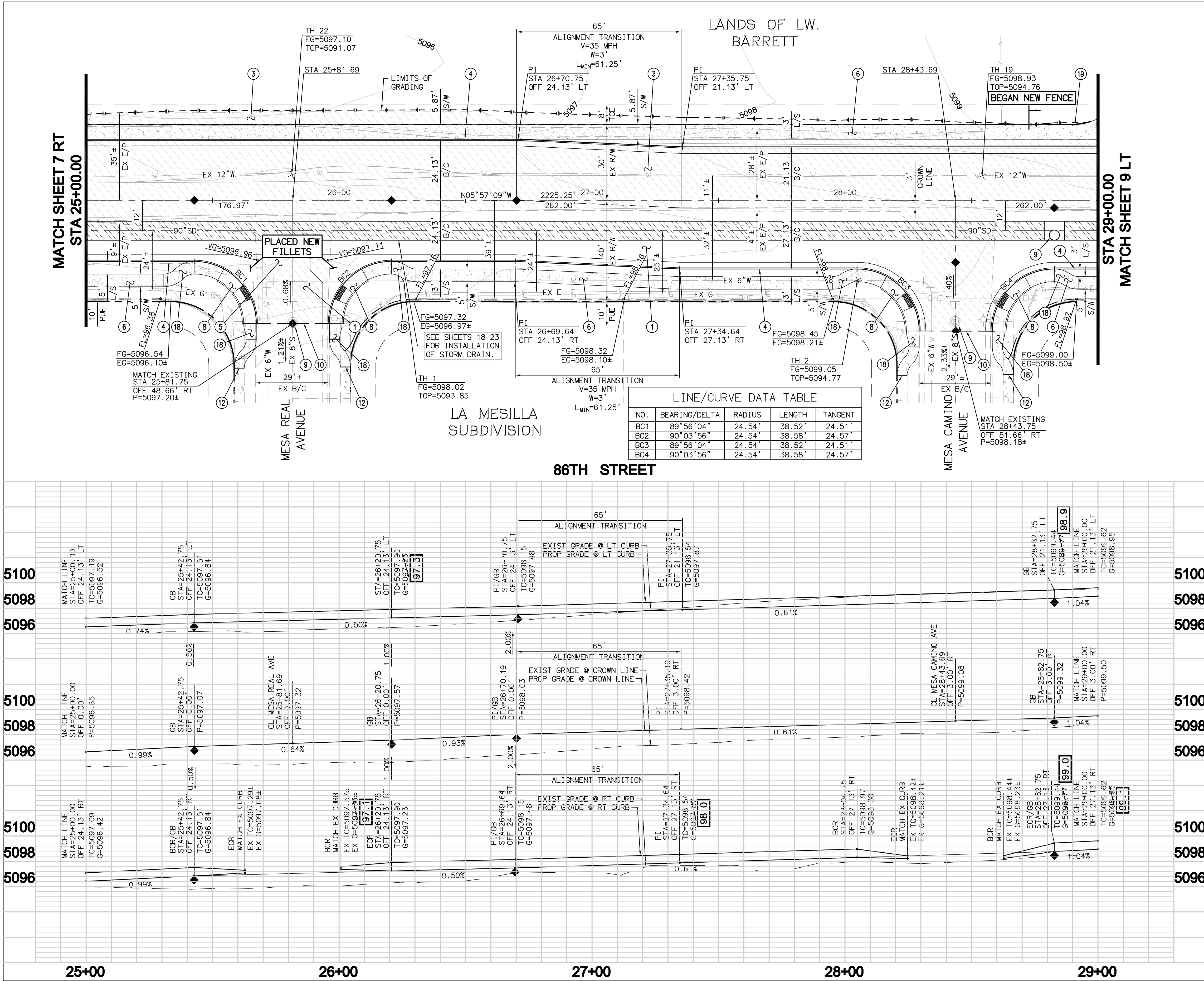
CITY OF ALBUQUERQUE

MUNICIPAL DEVELOPMENT DEPARTMENT

TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
PAVING PLANS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 7690.91		Zone Map No. L-9 & M-9	Sheet 7	Of 47



- CONSTRUCTION NOTES**
- 1. INSTALL 5.5" AC ON 6" ABC.
 - 3. REMOVE EXISTING ASPHALT & ASPHALT CURB.
 - 4. INSTALL STANDARD 8" CURB AND GUTTER PER C.O.A. STD DET 2415A.
 - 5. INSTALL 6' VALLEY GUTTER PER C.O.A. STD DET 2420.
 - 6. INSTALL SIDEWALK PER C.O.A. STD DET 2430. WIDTH PER PLAN.
 - 8. INSTALL SIDEWALK RAMP PER MODIFIED NMDOT STD DET 608 TYPE "B" SEE SHEETS 14-15 FOR DETAILS.
 - 9. ADJUST TO GRADE PER C.O.A. STD DET 2460.
 - 10. SAWCUT EXISTING PAVEMENT TO NEAT CLEAN EDGE.
 - 12. SAWCUT AND MATCH INTO EXISTING SIDEWALK.
 - 18. INSTALL SIDEWALK TRANSITION PER C.O.A. STD DET 2432.
 - 19. CONTRACTOR TO REMOVE AND REPLACE EXISTING FENCE IN KIND.

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS
1	08/29/11	DESIGNED BY: RER
2	08/29/11	DRAWN BY: DLP
3	08/29/11	CHECKED BY: DJP

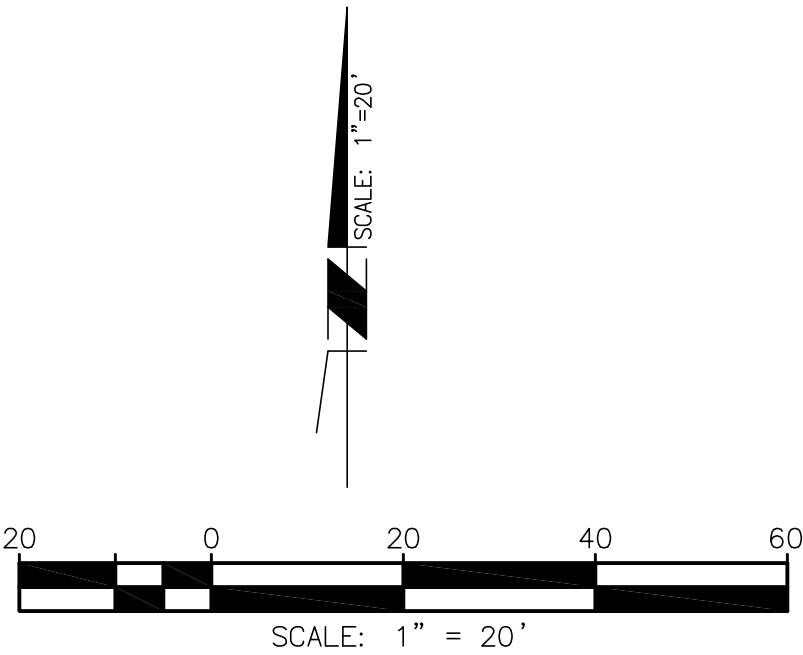
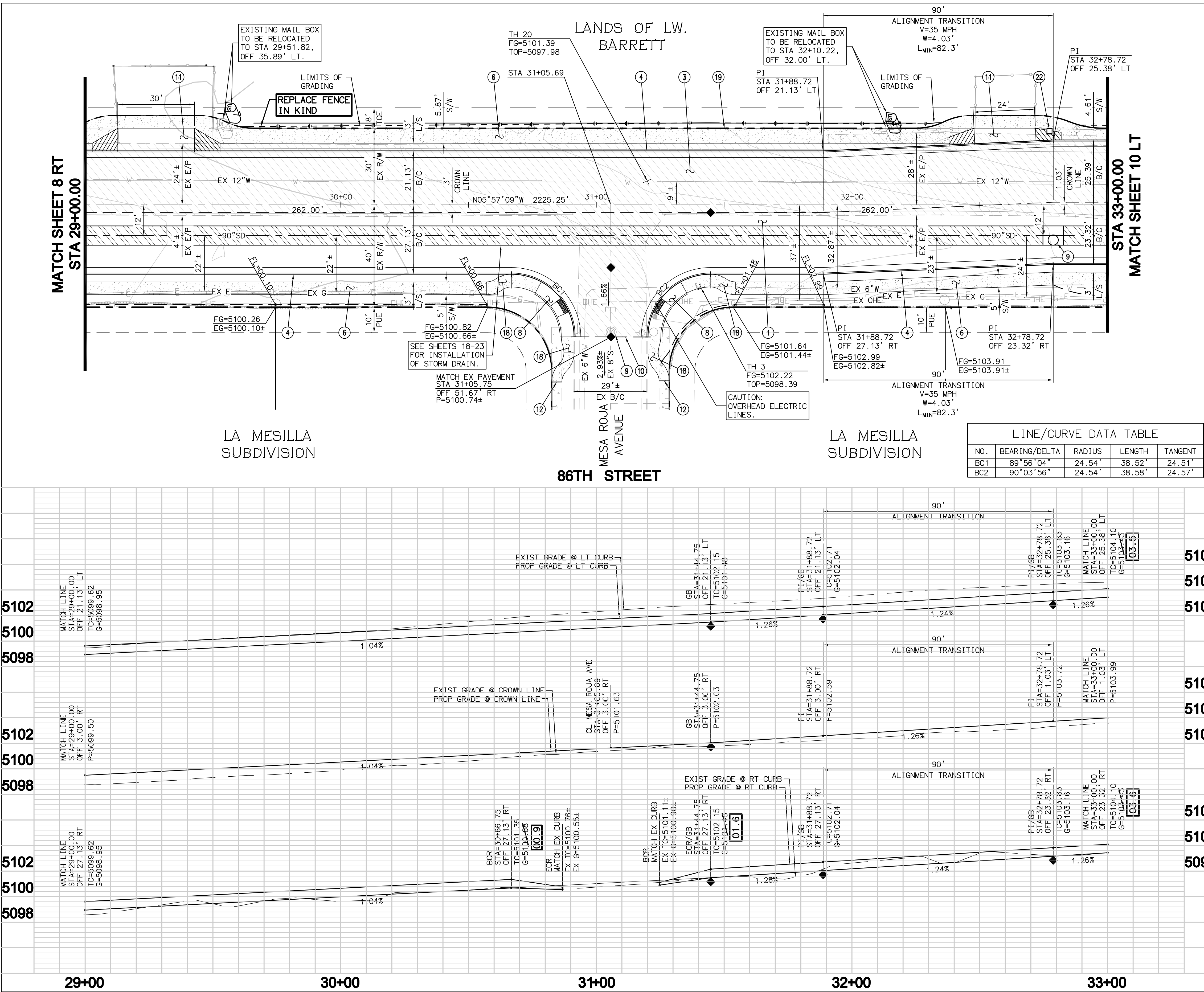
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
PAVING PLANS

City Project No. 7690.91

Zone Map No. L-9 & M-9

Sheet 8 Of 47



- CONSTRUCTION NOTES**
- 1. INSTALL 5.5" AC ON 6" ABC.
 - 2. REMOVE EXISTING ASPHALT & ASPHALT CURB.
 - 3. INSTALL STANDARD 8" CURB AND GUTTER PER C.O.A. STD DET 2415A.
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 - 5. INSTALL SIDEWALK RAMP PER MODIFIED NMDOT STD DET 608 TYPE "B" SEE SHEETS 14-15 FOR DETAILS.
 - 6. ADJUST TO GRADE PER C.O.A. STD DET 2460.
 - 7. SAWCUT EXISTING PAVEMENT TO NEAT CLEAN EDGE.
 - 8. INSTALL DRIVE PAD PER MODIFIED C.O.A. STD DET 2425, SEE DETAIL ON SHEET 15. WIDTH PER PLAN.
 - 9. SAWCUT AND MATCH INTO EXISTING SIDEWALK.
 - 10. INSTALL SIDEWALK TRANSITION PER C.O.A. STD DET 2432.
 - 11. CONTRACTOR TO REMOVE AND REPLACE EXISTING FENCE IN KIND.
 - 12. INSTALL TYPICAL METER BOX PER C.O.A. STD 2361 CASE 6.



Two working days before you dig
CALL NEW MEXICO ONE CALL SYSTEM
260-1990

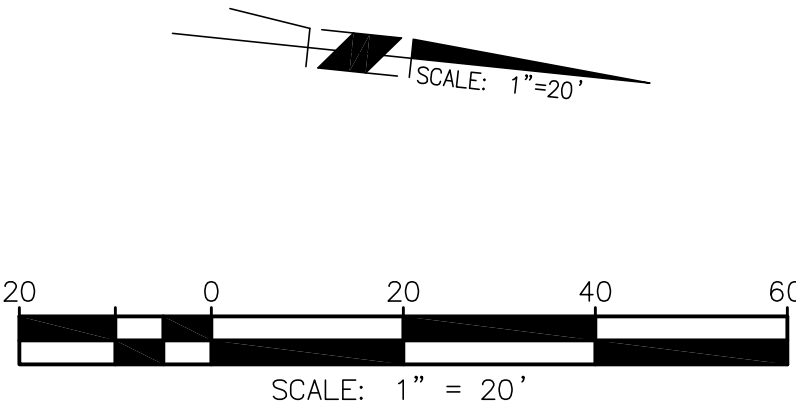
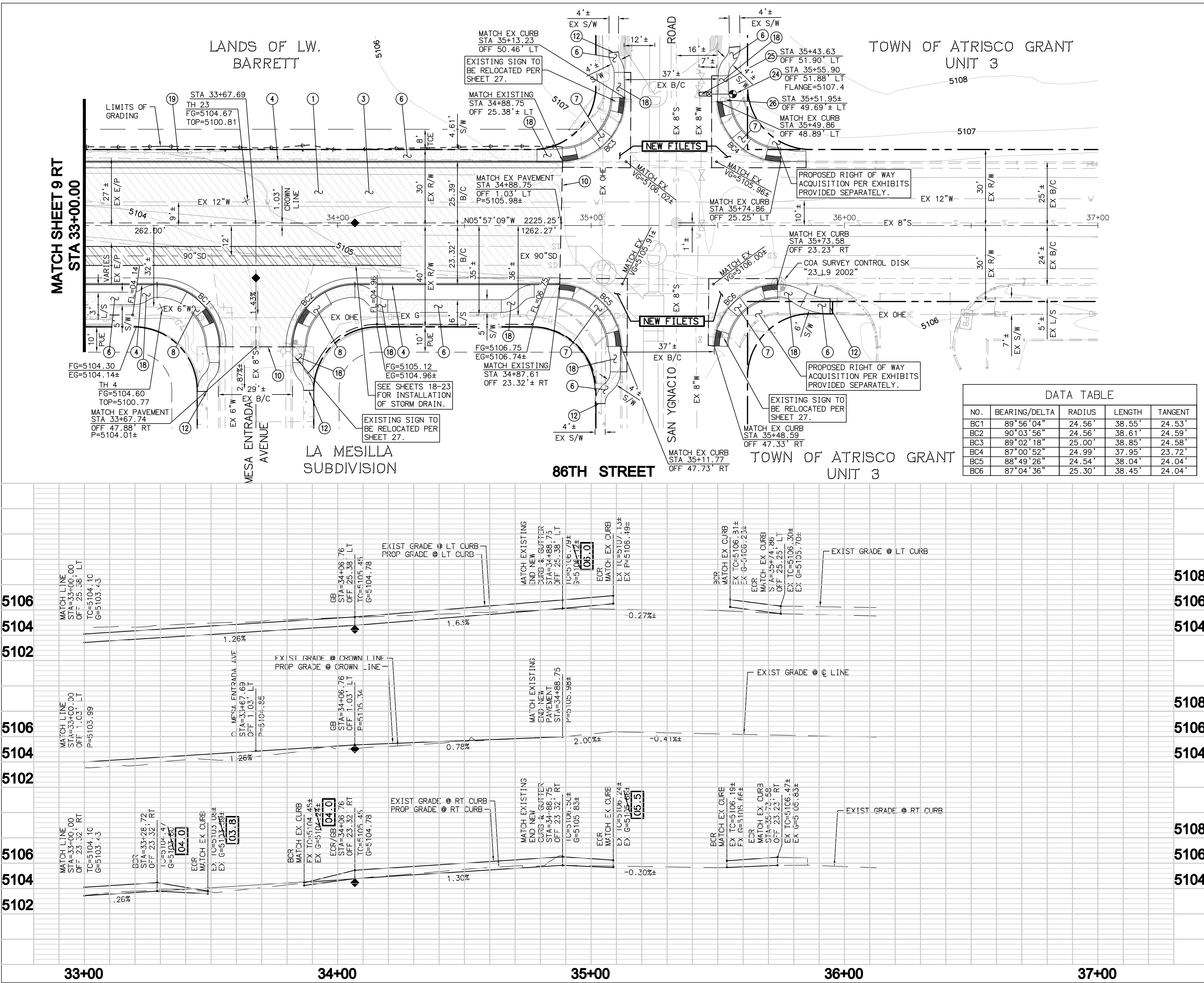


CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
PAVING PLANS

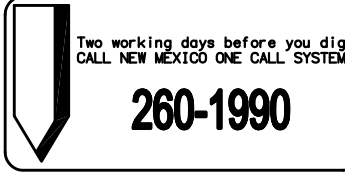
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 7690.91 Zone Map No. L-9 & M-9 Sheet 9 Of 47



- CONSTRUCTION NOTES**
- 1. INSTALL 5.5" AC ON 6" ABC.
 - 3. REMOVE EXISTING ASPHALT & ASPHALT CURB.
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 - 6. INSTALL SIDEWALK PER C.O.A. STD DET 2430. WIDTH PER PLAN.
 - 7. INSTALL SIDEWALK RAMP PER NMDOT STD DET 608 TYPE "B" PARALLEL CURB RAMP TWO DIRECTIONS. SEE DETAILS ON SHEETS 14 & 15.
 - 8. INSTALL SIDEWALK RAMP PER MODIFIED NMDOT STD DET 608 TYPE "B" SEE SHEETS 14-15 FOR DETAILS.
 - 10. SAWCUT EXISTING PAVEMENT TO NEAT CLEAN EDGE.
 - 12. SAWCUT AND MATCH INTO EXISTING SIDEWALK.
 - 18. INSTALL SIDEWALK TRANSITION PER C.O.A. STD DET 2432.
 - 19. CONTRACTOR TO REMOVE AND REPLACE EXISTING FENCE IN KIND.
 - 24. RELOCATE FIRE HYDRANT PER C.O.A. STD DET 2340 AND 2347.
 - 25. INSTALL 6"x8" TAPPING SLEEVE AND VALVE.
 - 26. CAP EXISTING FIRE HYDRANT LINE AFTER RELOCATION OF FIRE HYDRANT.

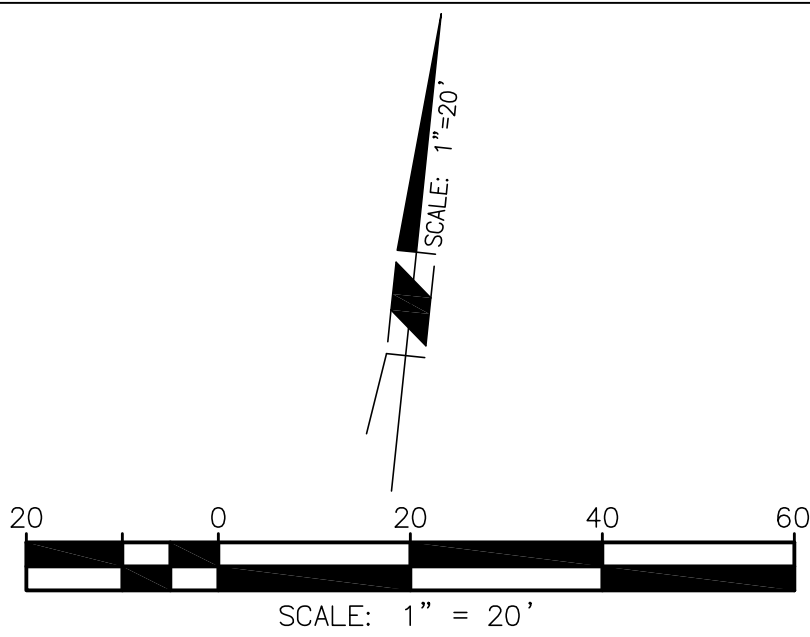
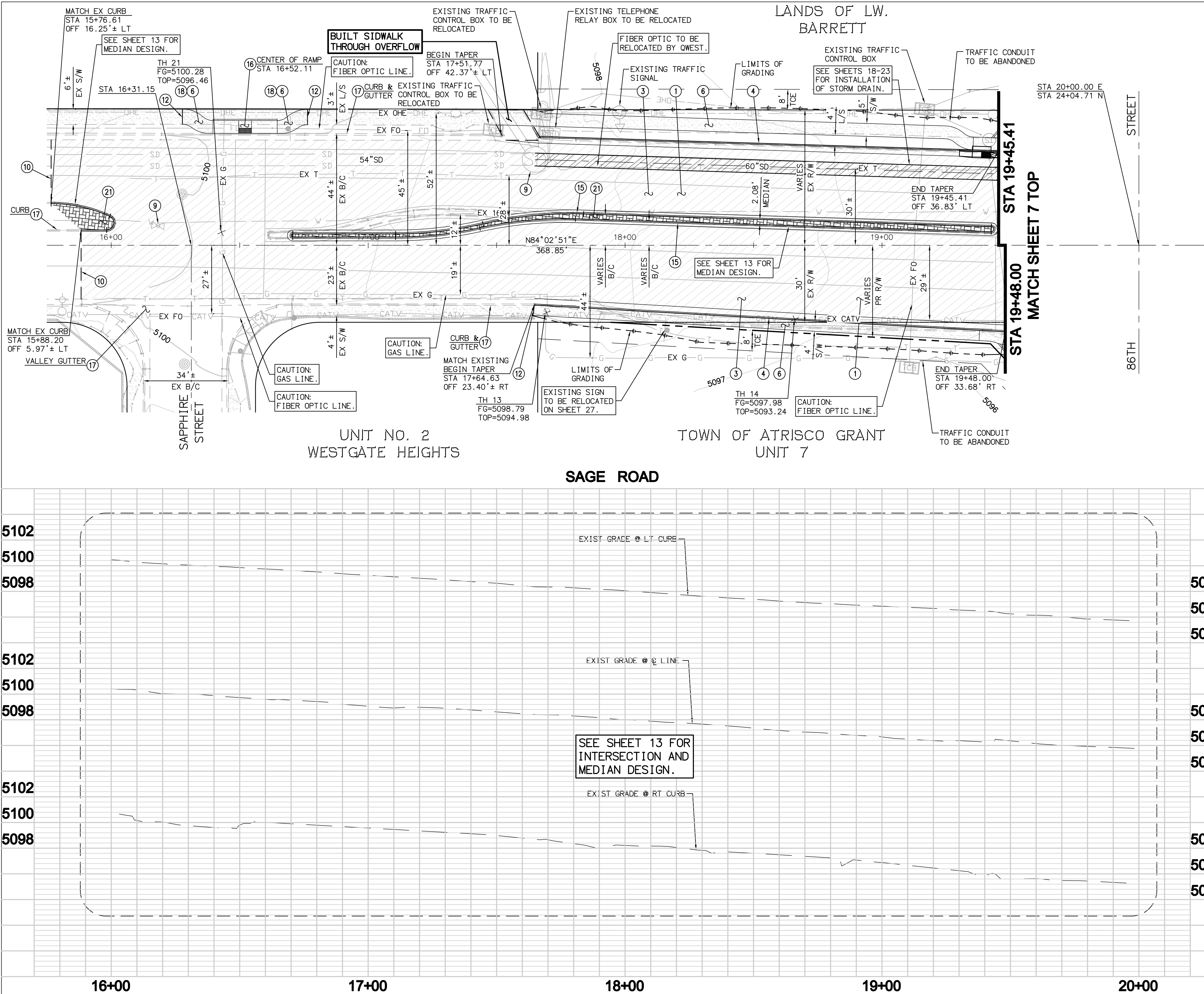
DATA TABLE				
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BC1	89°56'04"	24.56'	38.55'	24.53'
BC2	90°03'56"	24.56'	38.61'	24.59'
BC3	89°02'18"	25.00'	38.85'	24.58'
BC4	87°00'52"	24.99'	37.95'	23.72'
BC5	88°49'26"	24.54'	38.04'	24.04'
BC6	87°04'36"	25.30'	38.45'	24.04'



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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
PAVING PLANS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 7690.91	Zone Map No. L-9 & M-9	Sheet 10	Of 47



- CONSTRUCTION NOTES**
- 1. INSTALL 5.5" AC ON 6" ABC.
 - 3. REMOVE EXISTING ASPHALT & ASPHALT CURB.
 - 4. INSTALL STANDARD 8" CURB AND GUTTER PER C.O.A. STD DET 2415A.
 - 6. INSTALL SIDEWALK PER C.O.A. STD DET 2430. WIDTH PER PLAN.
 - 9. ADJUST TO GRADE PER C.O.A. STD DET 2460.
 - 10. SAWCUT EXISTING PAVEMENT TO NEAT CLEAN EDGE.
 - 12. SAWCUT AND MATCH INTO EXISTING SIDEWALK.
 - 15. INSTALL DEPRESSED GUTTER PER C.O.A. STD DET 2415A.
 - 16. INSTALL SIDEWALK RAMP PER NMDOT STD DET 608 TYPE "B" PARALLEL RAMP.
 - 17. PROTECT IN PLACE. SEE PLAN VIEW FOR ITEM BEING PROTECTED.
 - 18. INSTALL SIDEWALK TRANSITION PER C.O.A. STD DET 2432.
 - 21. INSTALL CONCRETE MEDIAN PAVING SECTION PER C.O.A. STD DET 2408 AND 2502. MEDIAN COLOR: GOLDEN HARVEST, PATTERN: ASHLAR SLATE.



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS	
CONTRACTOR	DATE	REFER TO COVER FOR BENCH MARKS		FIELD NOTES				NO.	DATE
WORK	DATE								
STATIONED BY	DATE								
ACCEPTANCE BY	DATE								
FIELD	DATE								
DRAWINGS	DATE								
CORRECTED BY	DATE								
MICRO-FILM INFORMATION	DATE								
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NO.									

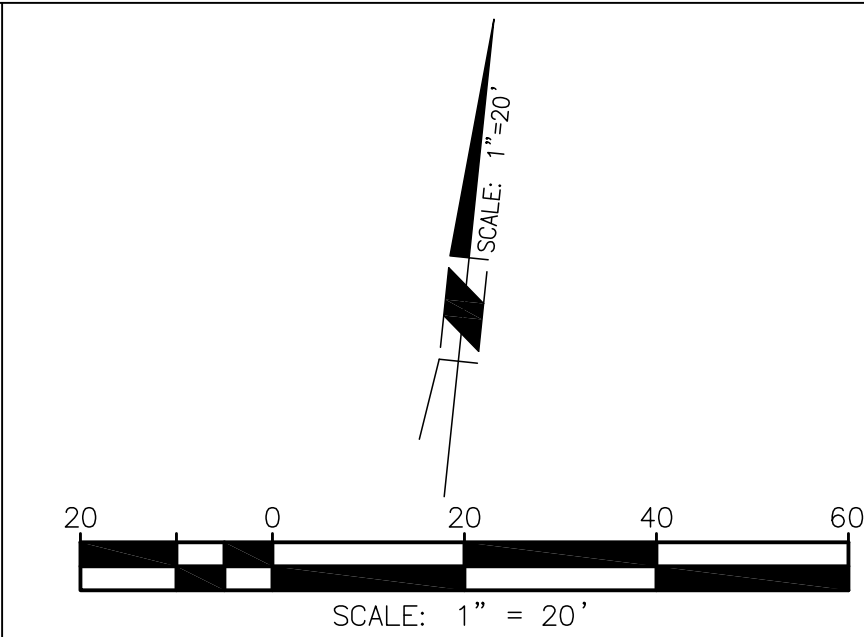
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPHIRE STREET AND SAN YGNACIO ROAD
PAVING PLANS

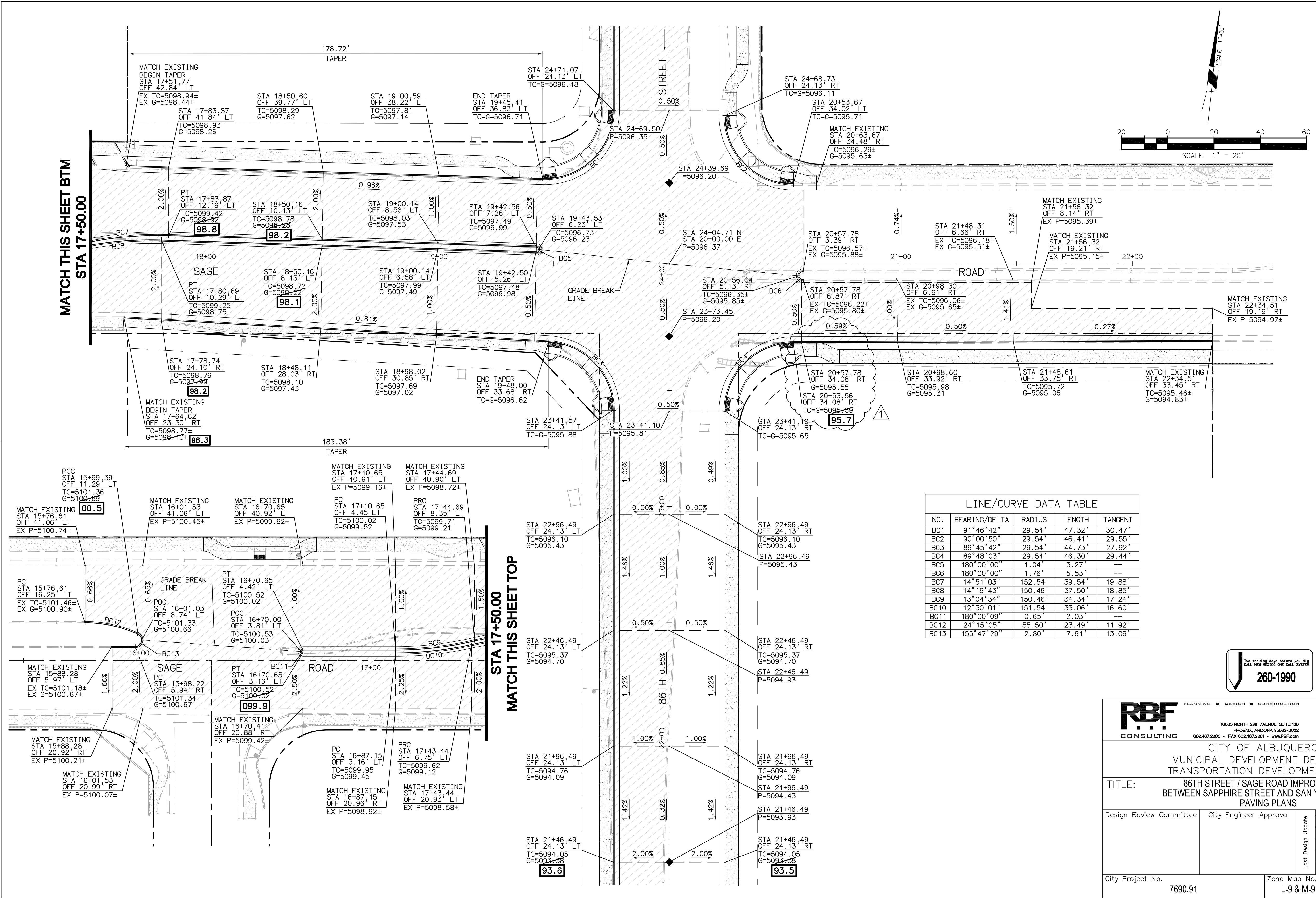
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 7690.91 Zone Map No. L-9 & M-9 Sheet 11 Of 47

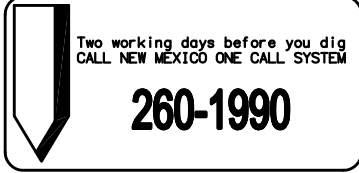
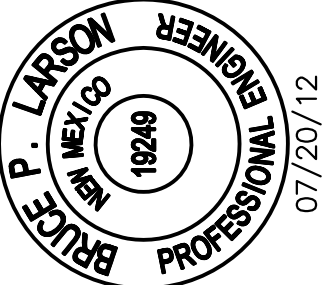


- ① INSTALL 5.5" AC ON 6" ABC.
- ② REMOVE EXISTING ASPHALT & ASPHALT CURB.
- ③ INSTALL STANDARD 8" CURB AND GUTTER PER C.O.A. STD DET 2415A.
- ④ INSTALL SIDEWALK PER C.O.A. STD DET 2430. WIDTH PER PLAN.
- ⑤ SAWCUT EXISTING PAVEMENT TO NEAT CLEAN EDGE.
- ⑥ SAWCUT AND MATCH INTO EXISTING SIDEWALK.
- ⑦ SAWCUT EXISTING MEDIAN.
- ⑧ INSTALL DEPRESSED GUTTER PER C.O.A. STD DET 2415A.
- ⑨ PROTECT IN PLACE. SEE PLAN VIEW FOR ITEM BEING PROTECTED.
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- ⑪ INSTALL CONCRETE MEDIAN PAVING SECTION PER C.O.A. STD DET 2408 AND 2502. MEDIAN COLOR: GOLDEN HARVEST, PATTERN: ASHLAR SLATE.
- ⑫ REMOVE ASPHALT SIDEWALK.

ENGINEER'S SEAL										SURVEY INFORMATION				BENCH MARKS				AS BUILT INFORMATION			
										FIELD NOTES				REFER TO COVER FOR BENCH MARKS				WORK			
										NO.		BY		DATE		STARTED BY				DATE	
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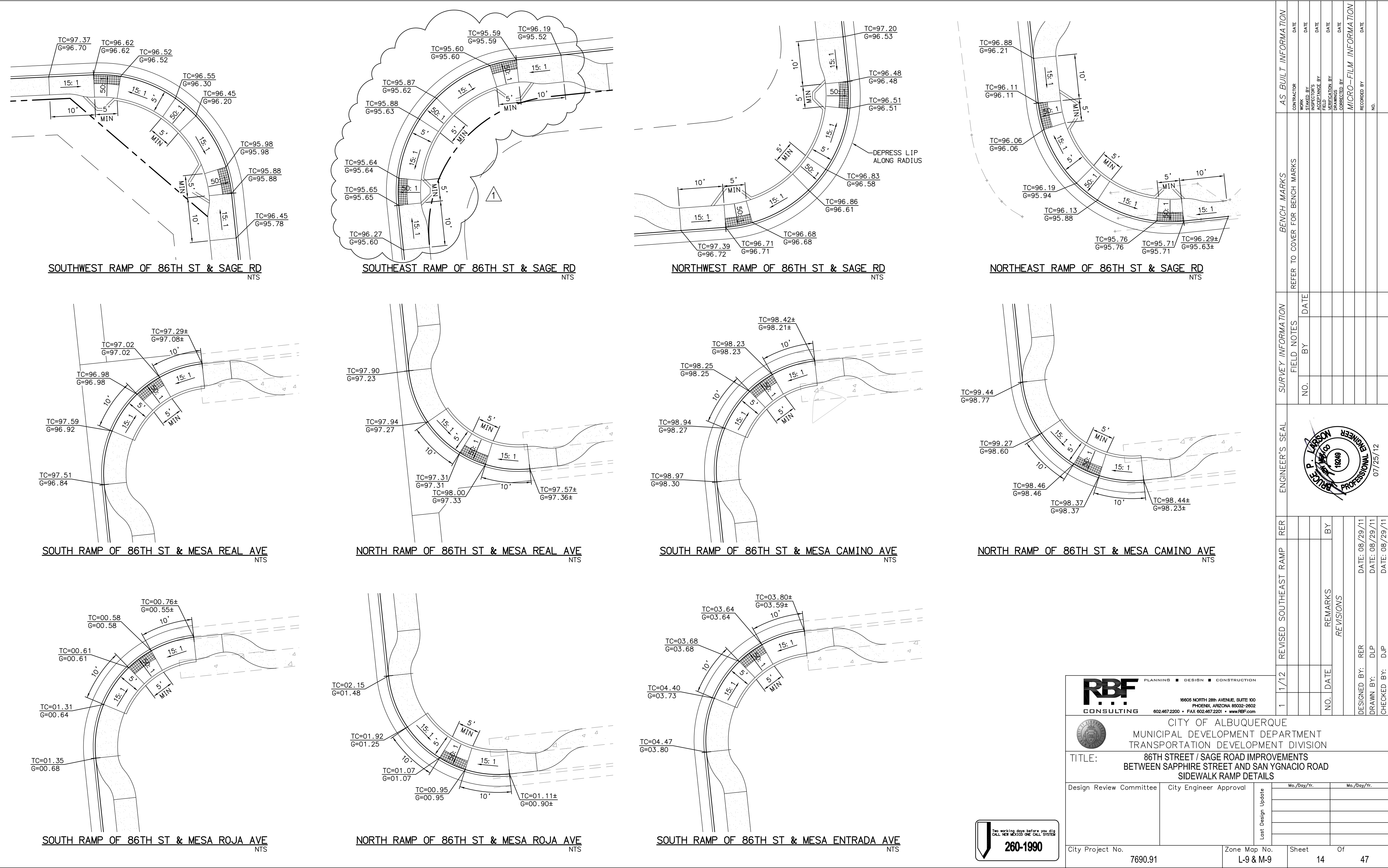


LINE/CURVE DATA TABLE				
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
BC1	91°46'42"	29.54'	47.32'	30.47'
BC2	90°00'50"	29.54'	46.41'	29.55'
BC3	86°45'42"	29.54'	44.73'	27.92'
BC4	89°48'03"	29.54'	46.30'	29.44'
BC5	180°00'00"	1.04'	3.27'	---
BC6	180°00'00"	1.76'	5.53'	---
BC7	14°51'03"	152.54'	39.54'	19.88'
BC8	14°16'43"	150.46'	37.50'	18.85'
BC9	13°04'34"	150.46'	34.34'	17.24'
BC10	12°30'01"	151.54'	33.06'	16.60'
BC11	180°00'09"	0.65'	2.03'	---
BC12	24°15'05"	55.50'	23.49'	11.92'
BC13	155°47'29"	2.80'	7.61'	13.06'

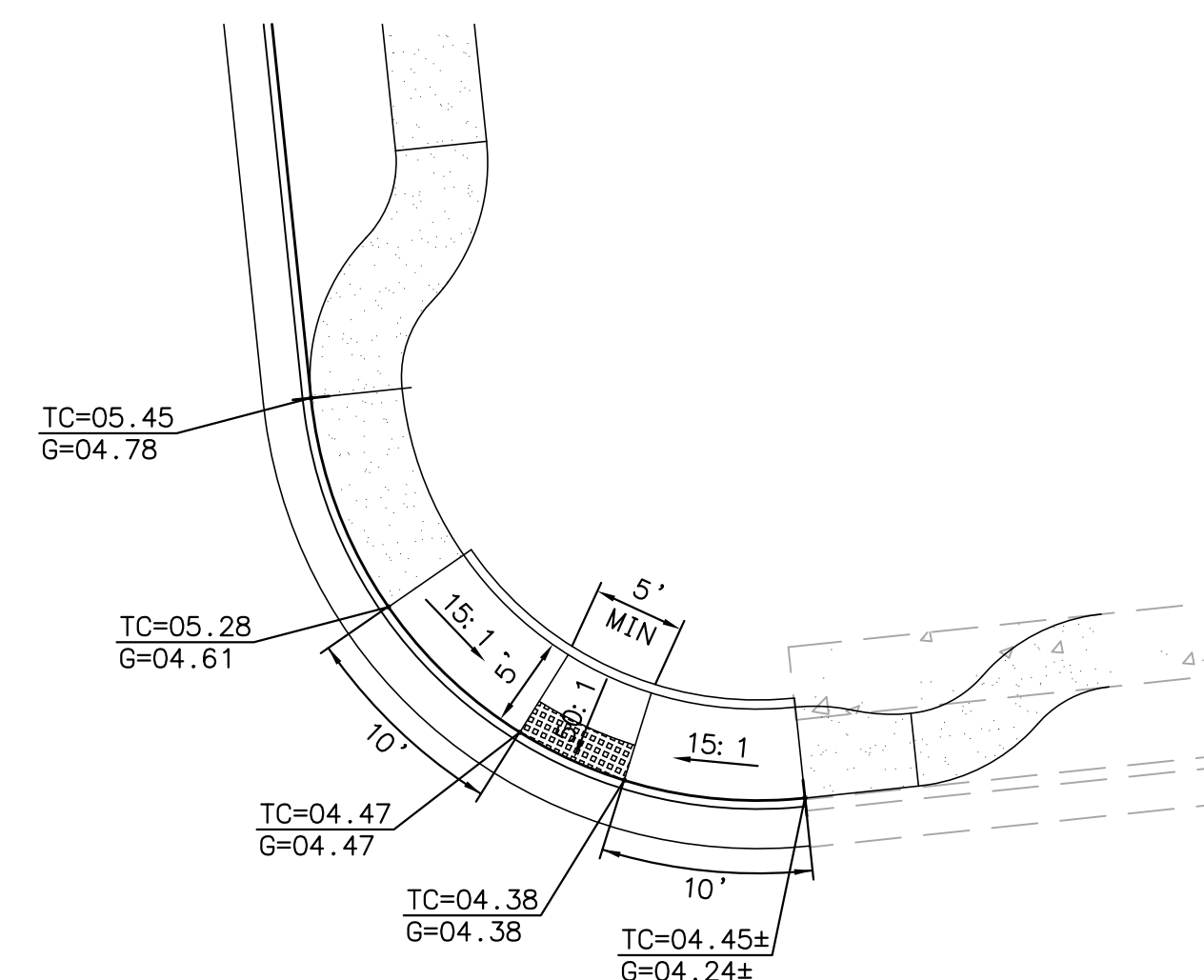


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CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION			
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD PAVING PLANS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr. Mo./Day/Yr.	
City Project No. 7690.91		Zone Map No. L-9 & M-9	Sheet 13 Of 47

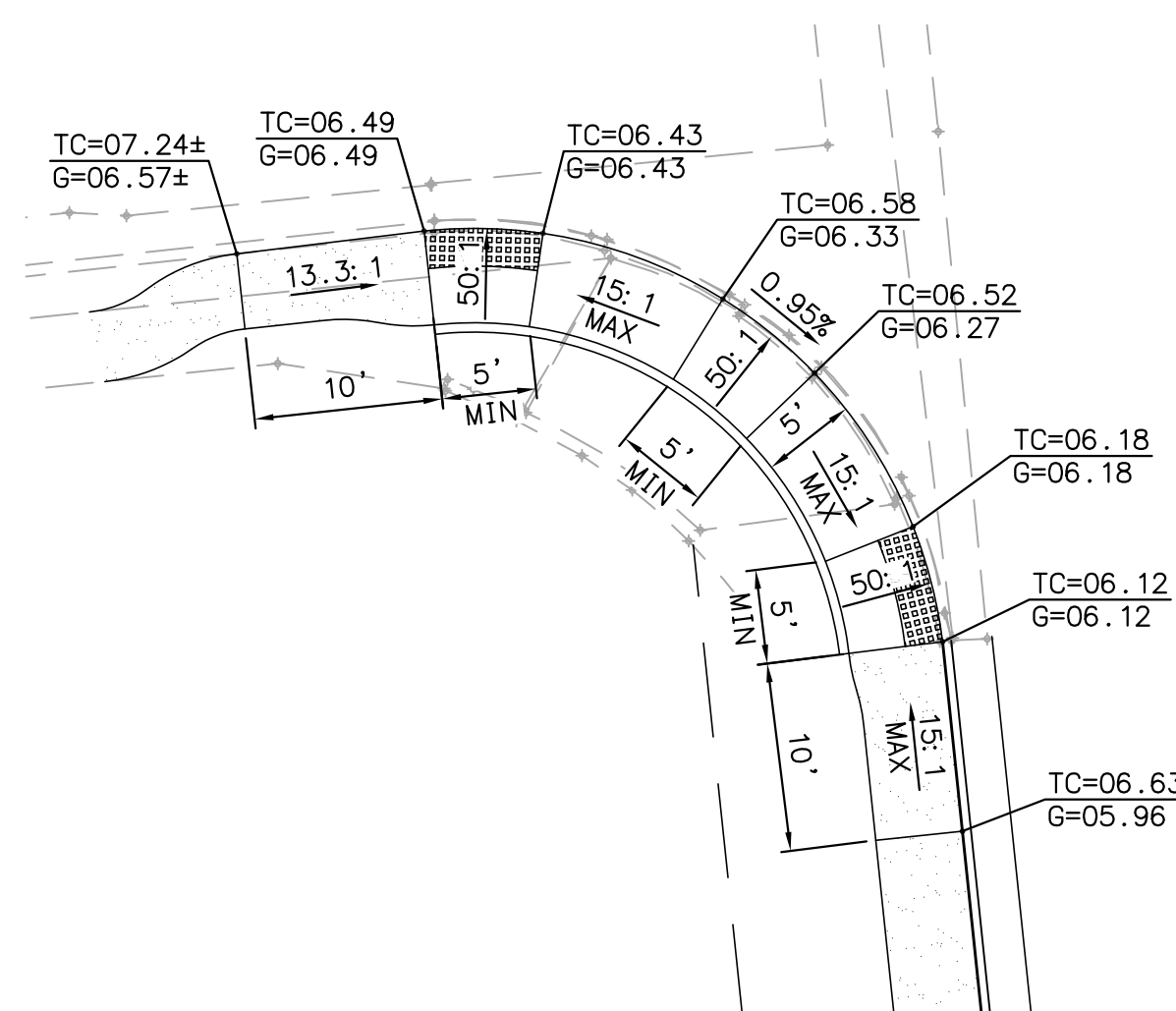
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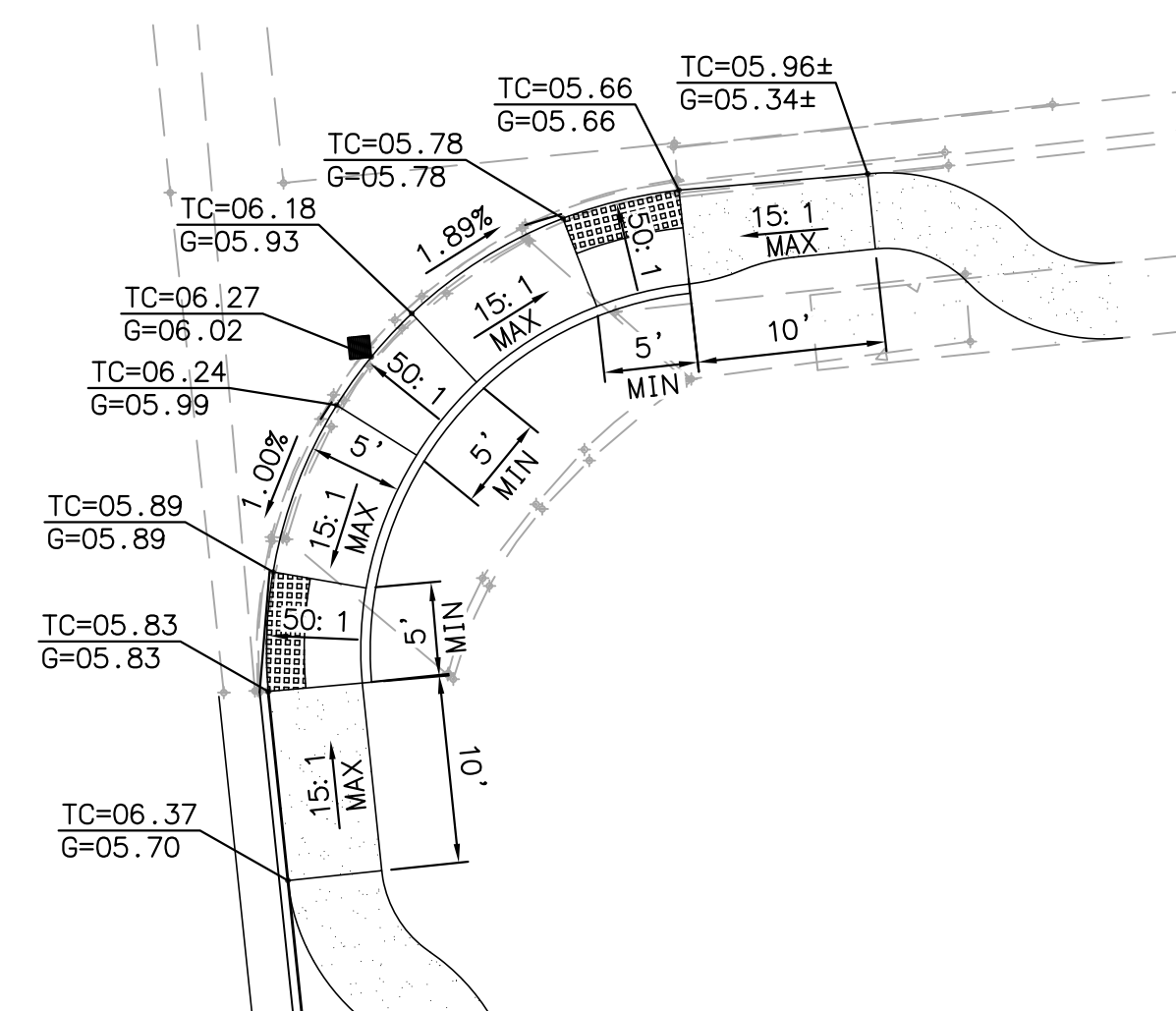
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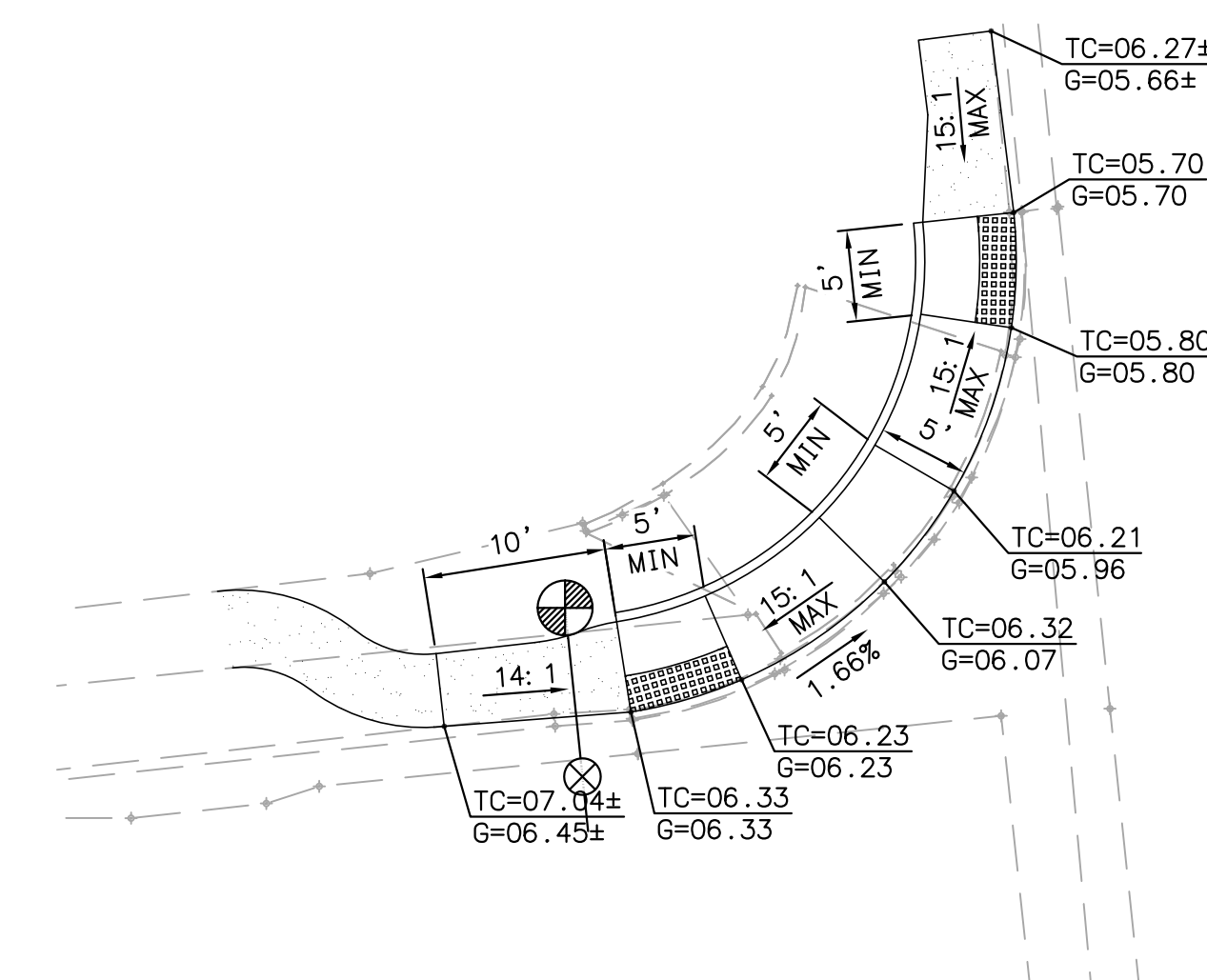
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NTS



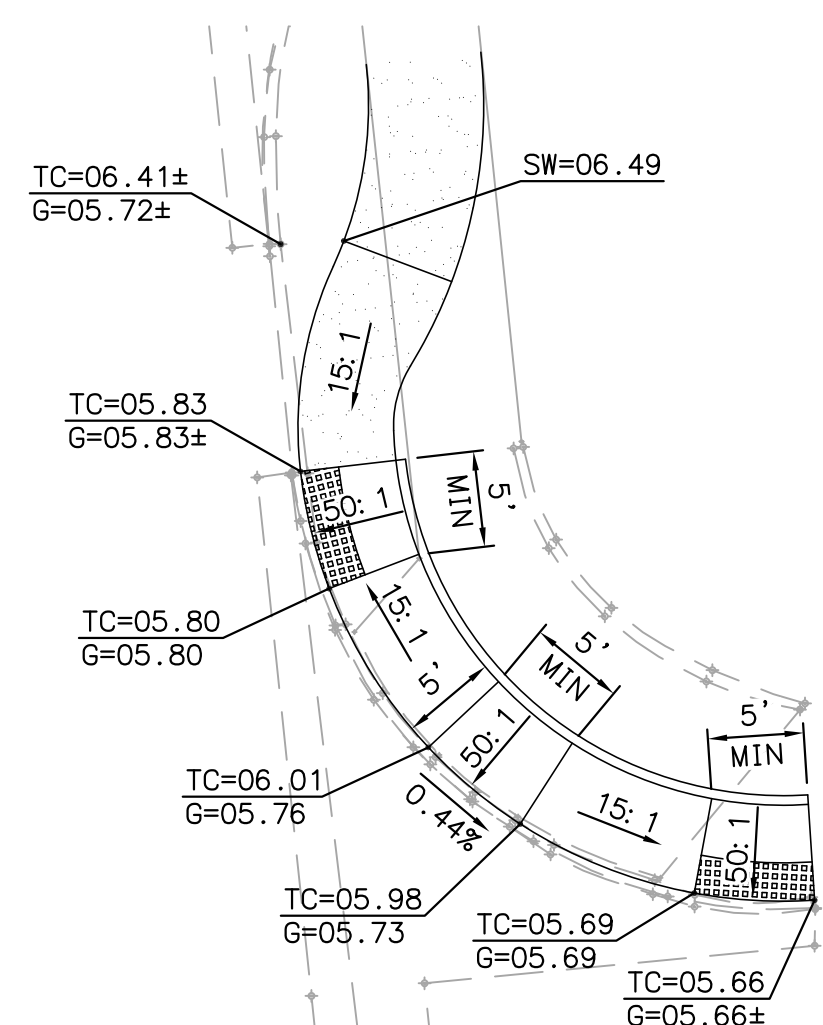
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NTS



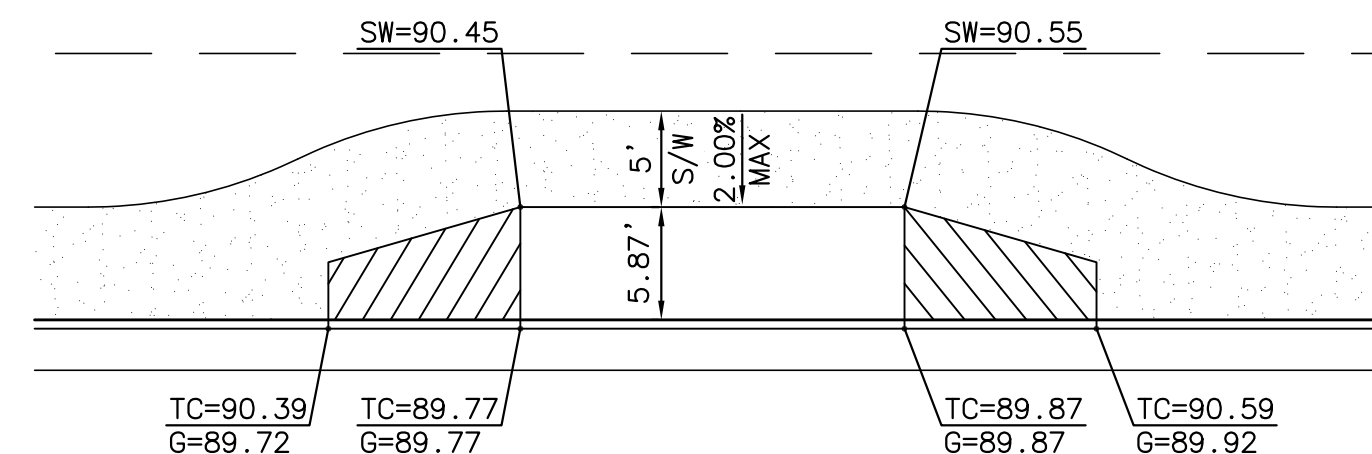
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NTS



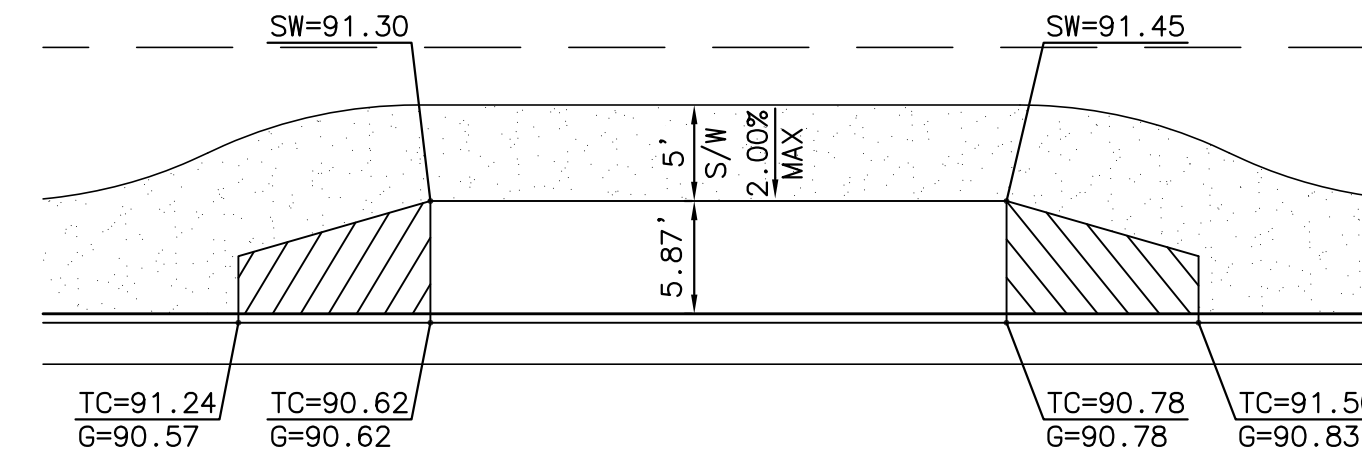
NORTHWEST RAMP OF 86TH ST & SAN YGNACIO RD



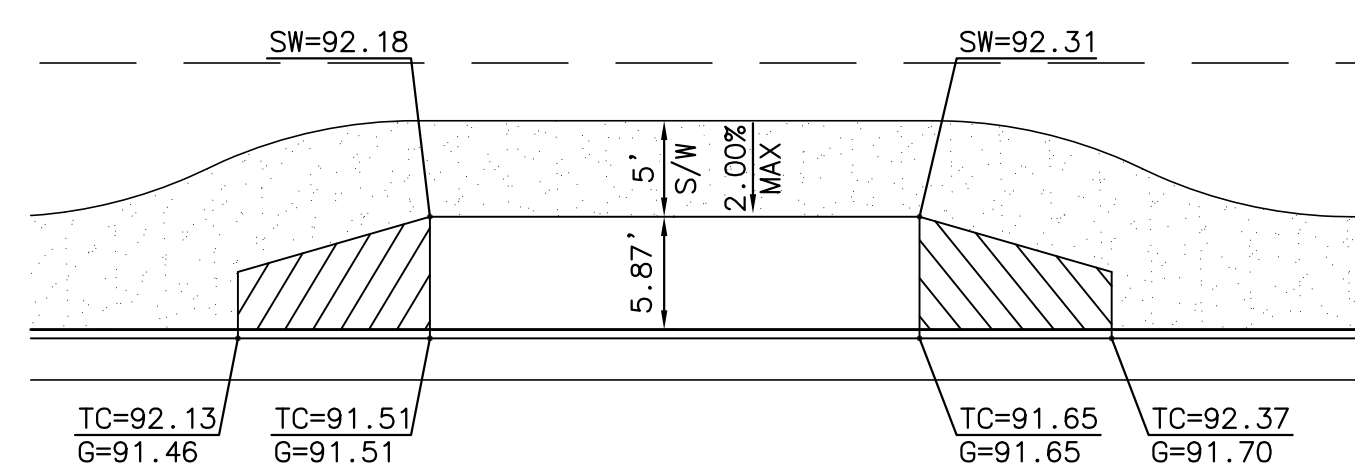
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NTS



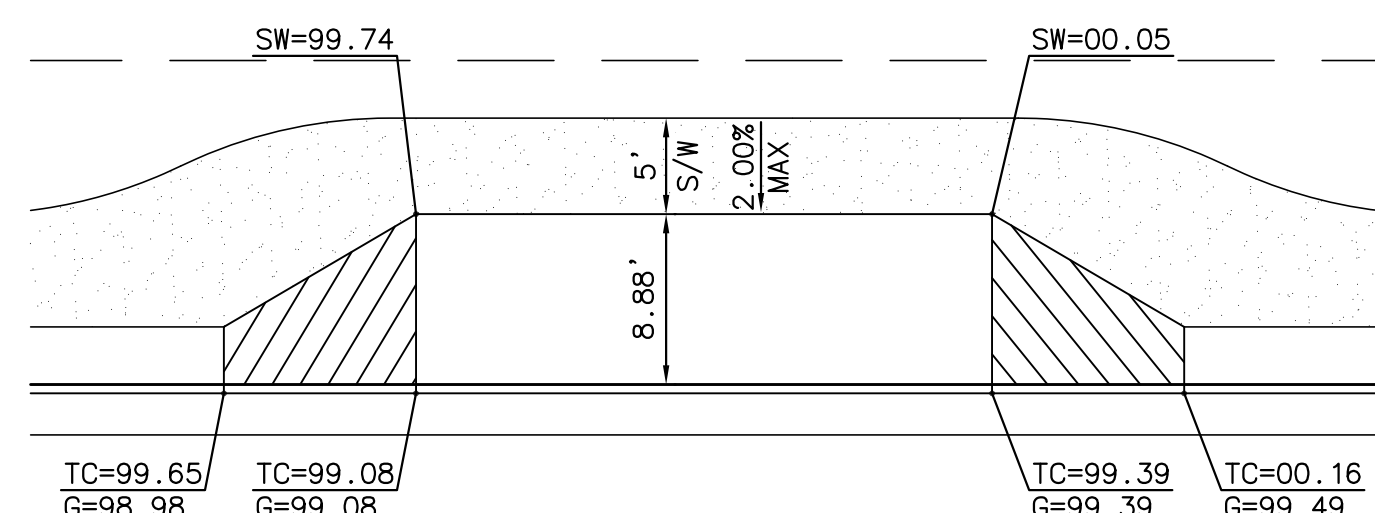
86TH ST DRIVEWAY STA 14+45.48
NTS



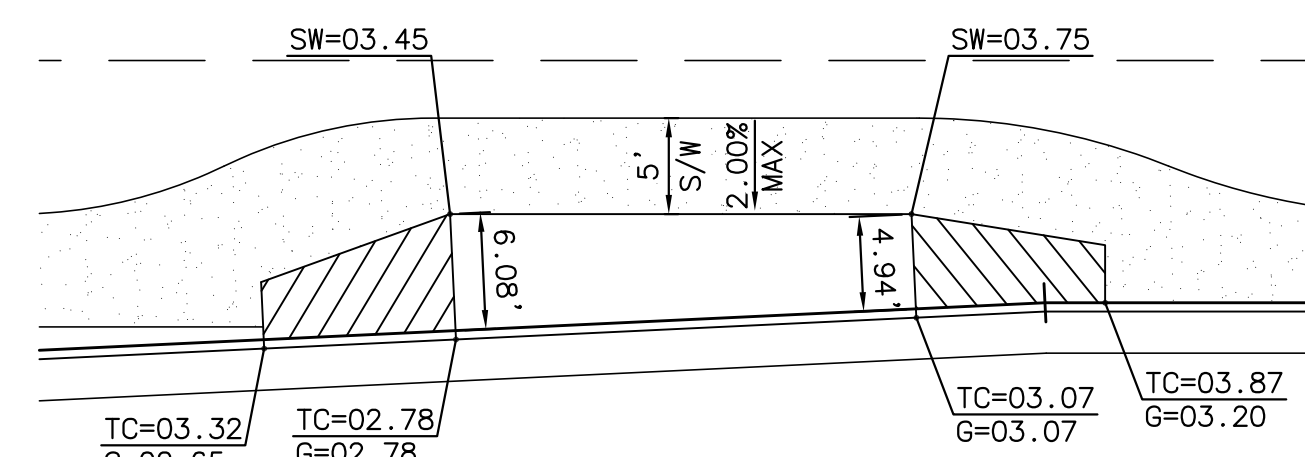
86TH ST DRIVEWAY STA 16+33.95
NTS



86TH ST DRIVEWAY STA 18+01.71
NTS



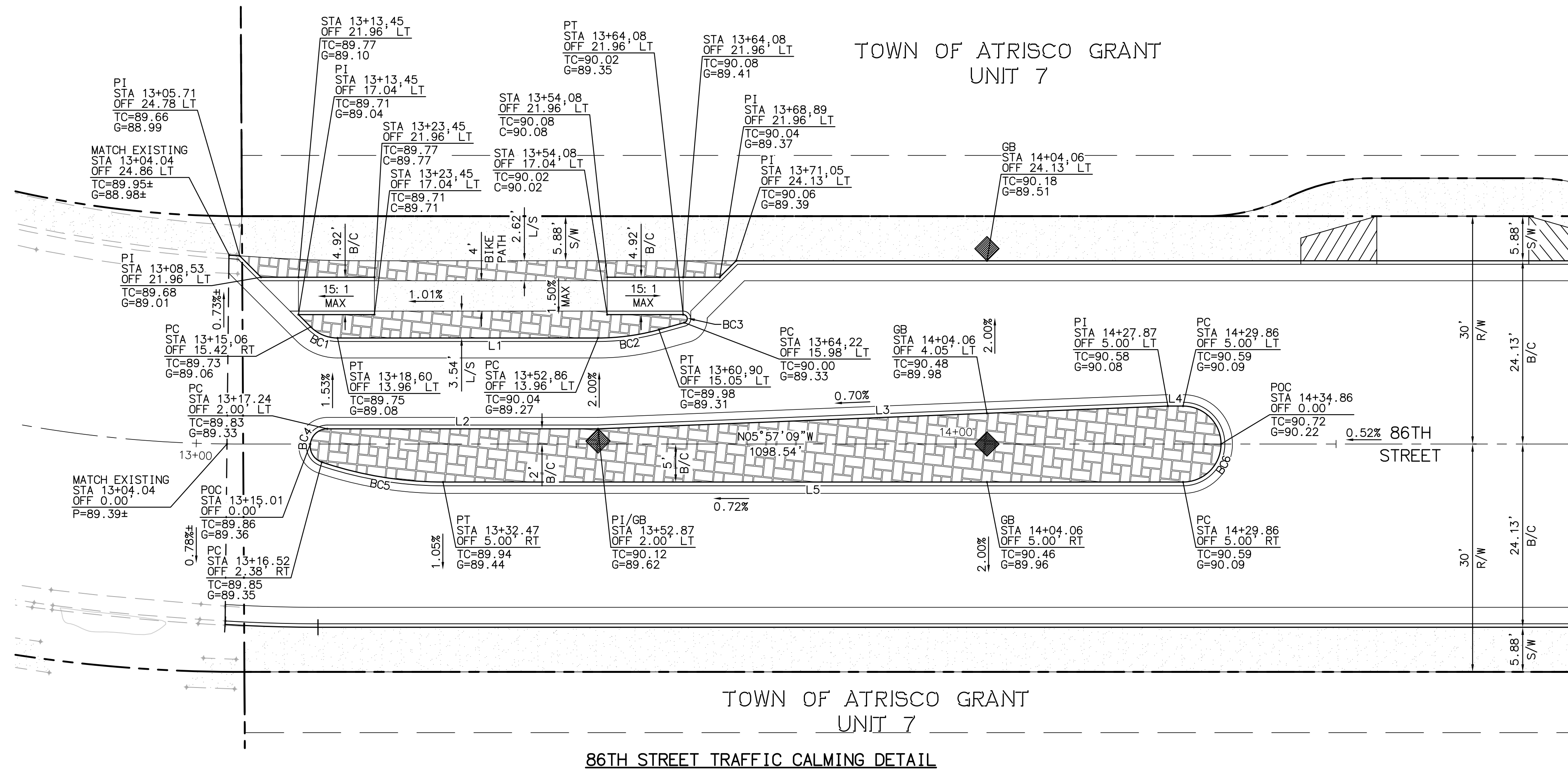
86TH ST DRIVEWAY STA 29+27.79
NTS



86TH ST DRIVEWAY STA 32+59.76
NTS

[illegible]

RECORD DRAWING



LINE/CURVE DATA TABLE				
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
BC1	45°00'00"	5.00'	3.93'	2.07'
BC2	15°31'34"	30.00'	8.13'	4.09'
BC3	164°28'26"	0.54'	1.55'	3.96'
BC4	181°22'12"	2.25'	6.34'	13.72'
BC5	181°00'00"	49.95'	16.24'	8.19'
BO6	180°00'00"	5.00'	15.51'	
L1	N05°57'09"W	---	34.26'	
L2	N05°57'09"W	---	35.63'	
L3	N08°14'36"W	---	75.06'	
L4	N05°57'09"W	---	1.99'	
L5	N05°57'09"W	---	97.39'	

86TH STREET TRAFFIC CALMING DETAIL

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK	DATE
INSPECTOR'S	DATE
CHANGE BY	DATE
FIELD	DATE
VERIFICATION BY	DATE
DRAWINGS	DATE
CORRECTED BY	DATE
RECORDED BY	DATE
NO.	

BENCH MARKS

KEY INFORMATION

ENGINEER'S SEAL

[illegible]

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CONSULTING

PLANNING ■ DESIGN ■ CONSTRUCTION

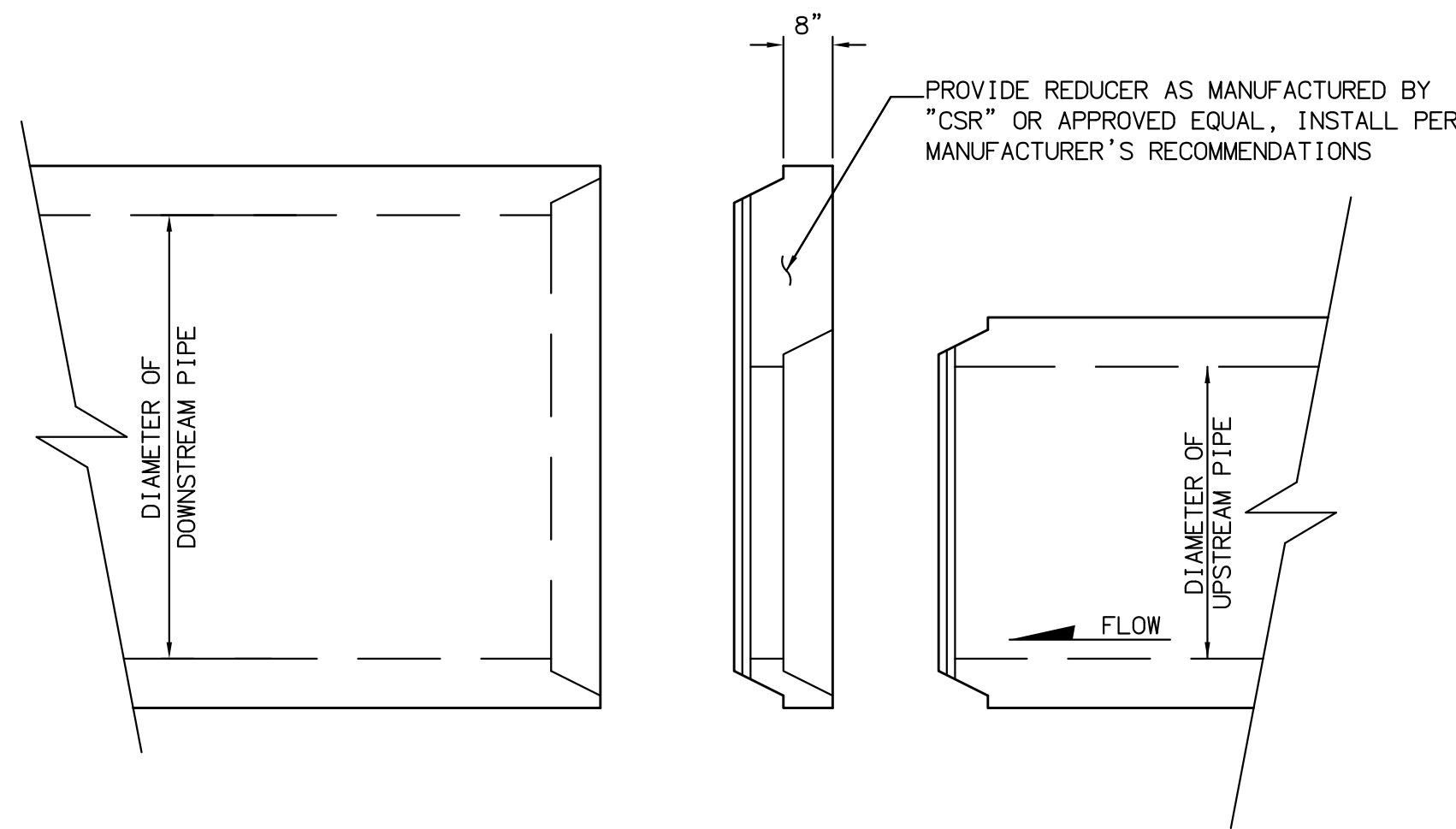
16605 NORTH 28TH AVENUE, SUITE 100
PHOENIX, ARIZONA 85032-2602
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	CITY OF ALBUQUERQUE
	MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION
TITLE:	86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPHIRE STREET AND SAN YGNACIO ROAD TRAFFIC CALMING DETAIL

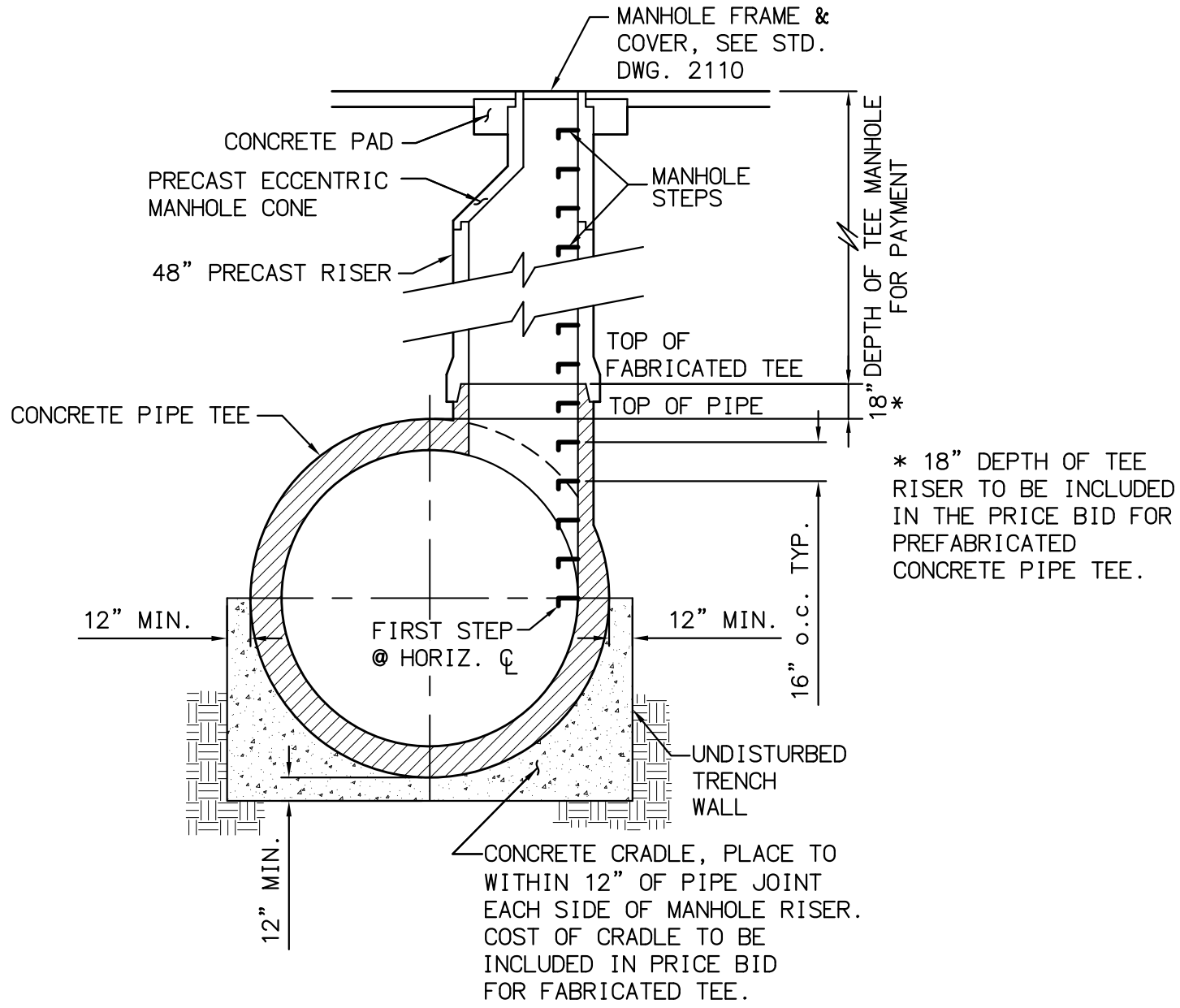
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
7690.91	L-9 & M-9	16	47

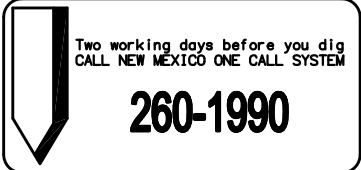
Two working days before you die
CALL NEW MEXICO ONE CALL SYSTEM
260-1990



REDUCER DETAIL
NOT TO SCALE



4' DIA. TEE MANHOLE DETAIL
NOT TO SCALE



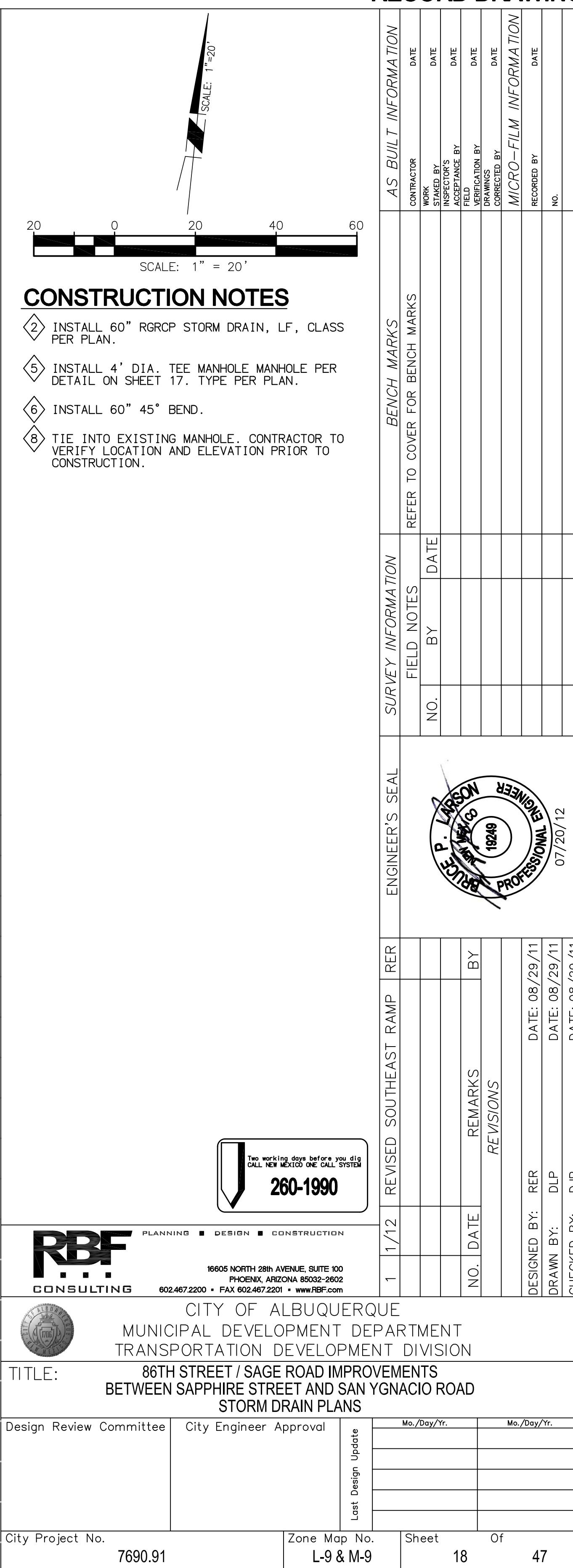
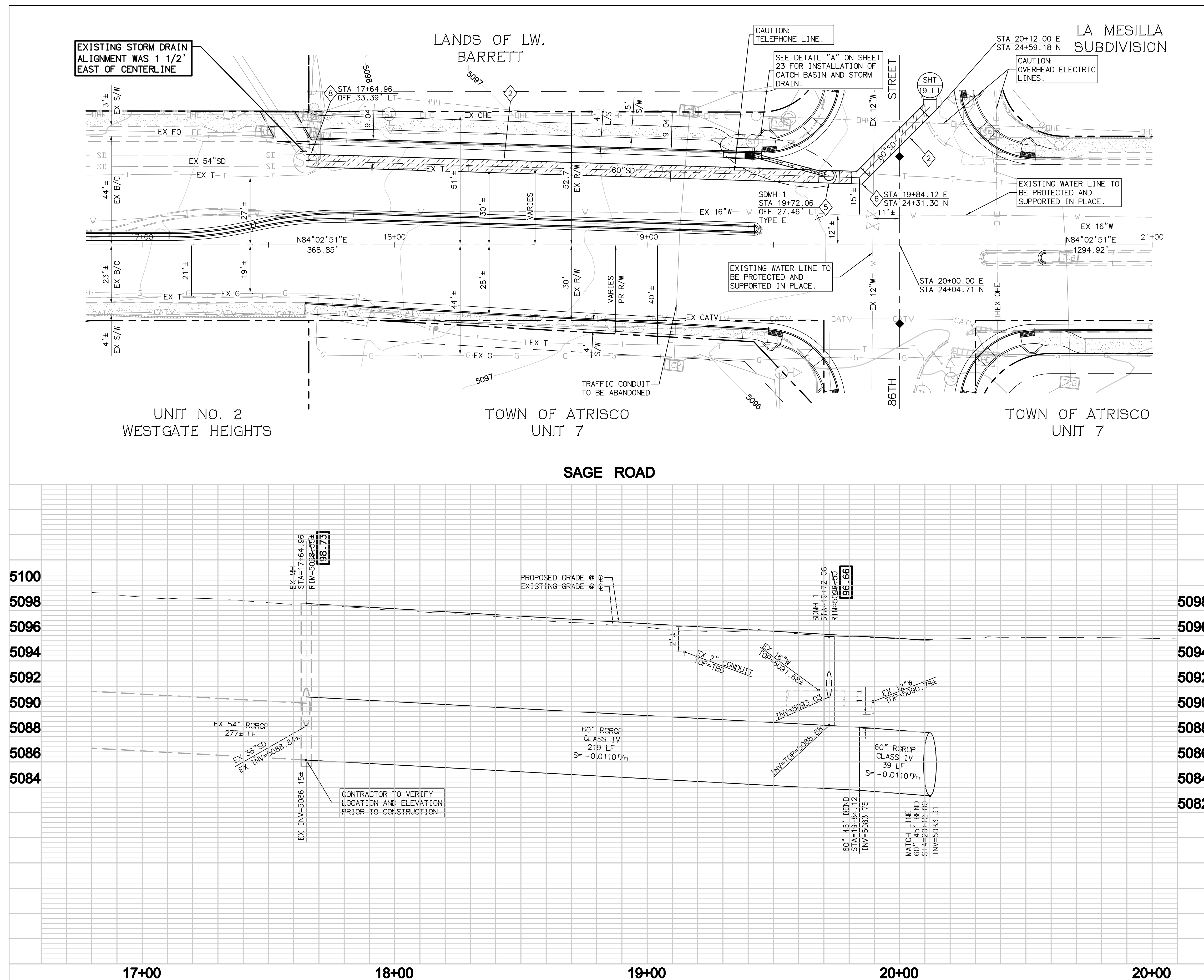
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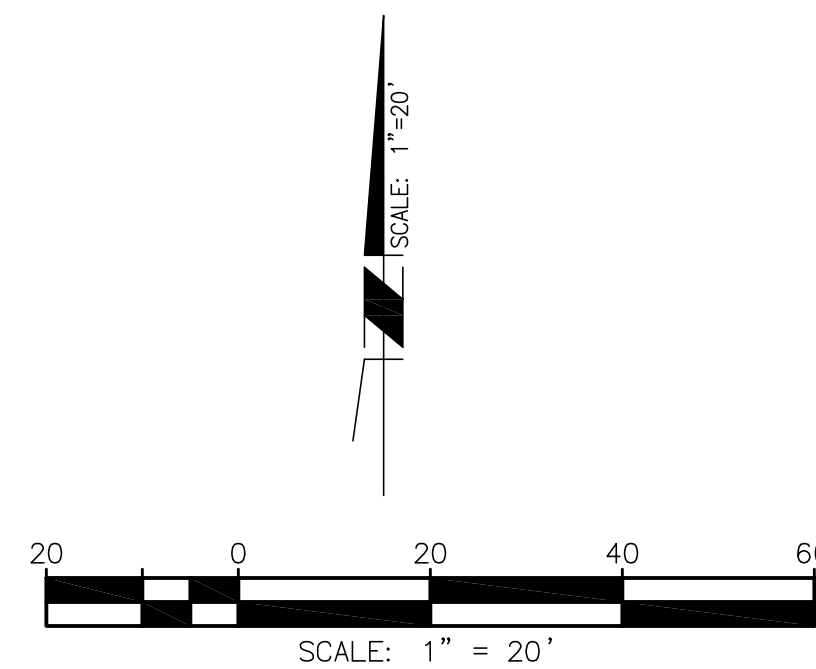
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		CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION	
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD STORM DRAIN DETAILS			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 7690.91	Zone Map No. L-9 & M-9	Sheet	Of
		17	47

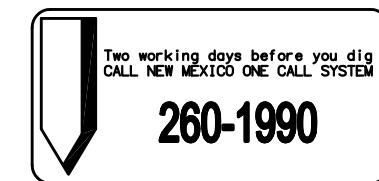
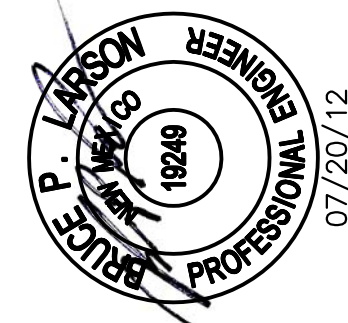
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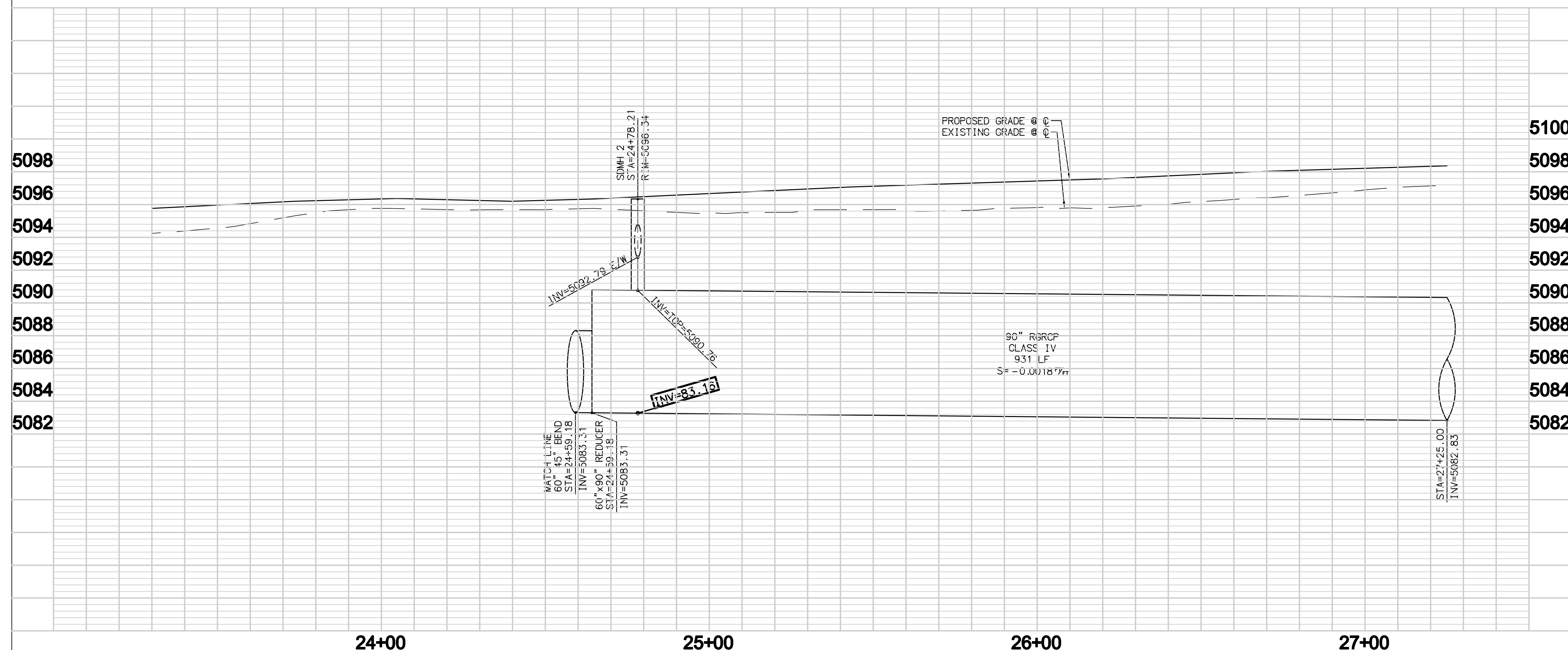
- 3 INSTALL 90" RGCRP STORM DRAIN, LF, CLASS PER PLAN.
- 5 INSTALL 4' DIA. TEE MANHOLE MANHOLE PER DETAIL ON SHEET 17. TYPE PER PLAN.
- 6 INSTALL 60" 45° BEND.
- 7 INSTALL 60" X 90" EXPANSION BULKHEAD PER DETAIL ON SHEET 17.

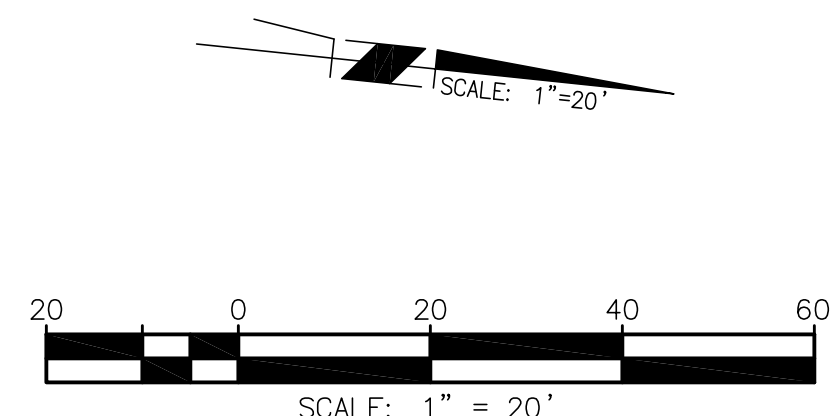
SURVEY INFORMATION		BENCH MARKS REFER TO COVER FOR BENCH MARKS	AS-BUILT INFORMATION	
FIELD NOTES			CONTRACTOR	DATE
NO.	BY DATE		WORK STARTED BY DATE	DATE
			ACCEPTANCE BY DATE	DATE
			FIELD LOCATION BY DRAWINGS	DATE
			CORRECTED BY	DATE
			MICRO-FILM INFORMATION	
			RECORDED BY	DATE
			NO.	

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Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

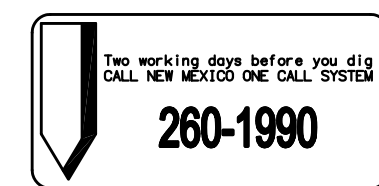
City Project No.	Zone Map No.	Sheet	Of
7690.91	L-9 & M-9	19	47





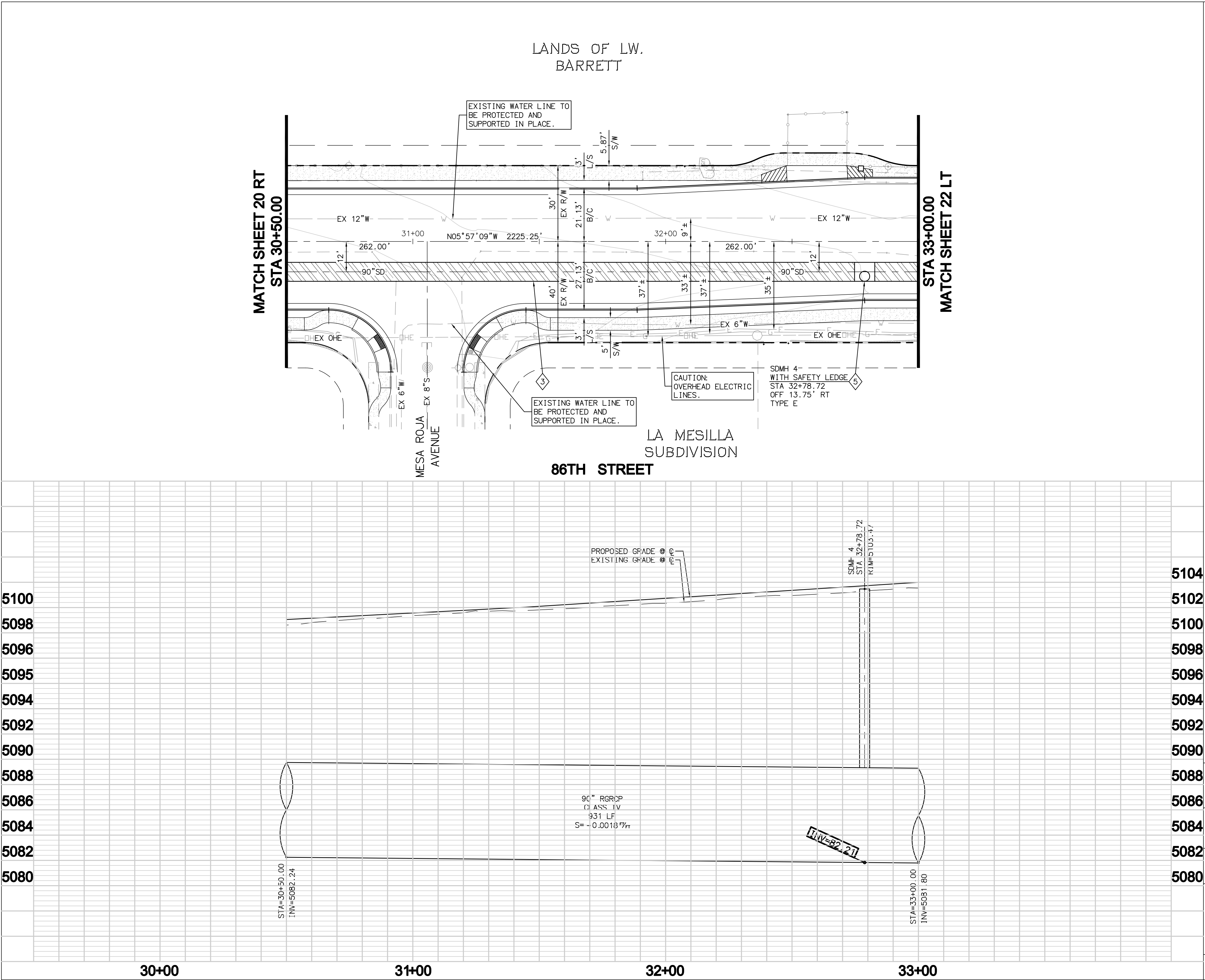
3 INSTALL 90" RGRCP STORM DRAIN, LF, CLASS PER PLAN.

5 INSTALL 4' DIA. TEE MANHOLE MANHOLE PER DETAIL ON SHEET 17. TYPE PER PLAN.



 CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT
TRANSPORTATION DEVELOPMENT

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD STORM DRAIN PLANS				
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 7690.91		Zone Map No. L-9 & M-9	Sheet 20	Of 47



SCALE: 1"=20'

SCALE: 1" = 20'

CONSTRUCTION NOTES

3 INSTALL 90" RGRCP STORM DRAIN, LF, CLASS PER PLAN.

5 INSTALL 4' DIA. TEE MANHOLE MANHOLE PER DETAIL ON SHEET 17. TYPE PER PLAN.

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK	DATE
STANDARD	DATE
ACCEPTANCE BY	DATE
FIELD	DATE
REVISIONS	DATE
CORRECTED BY	DATE
RECORDED BY	DATE
NO.	

BENCH MARKS	
REFER TO COVER FOR BENCH MARKS	
NO.	DATE
BY	

SURVEY INFORMATION	
FIELD NOTES	
NO.	DATE
BY	

ENGINEER'S SEAL	

REVISIONS	
NO.	DATE
1	1/12

DESIGNED BY: RER	
DRAWN BY: DLP	
CHECKED BY: DJP	
DATE: 08/29/11	DATE: 08/29/11
DATE: 08/29/11	DATE: 08/29/11
DATE: 08/29/11	DATE: 08/29/11

PLANNING ■ DESIGN ■ CONSTRUCTION

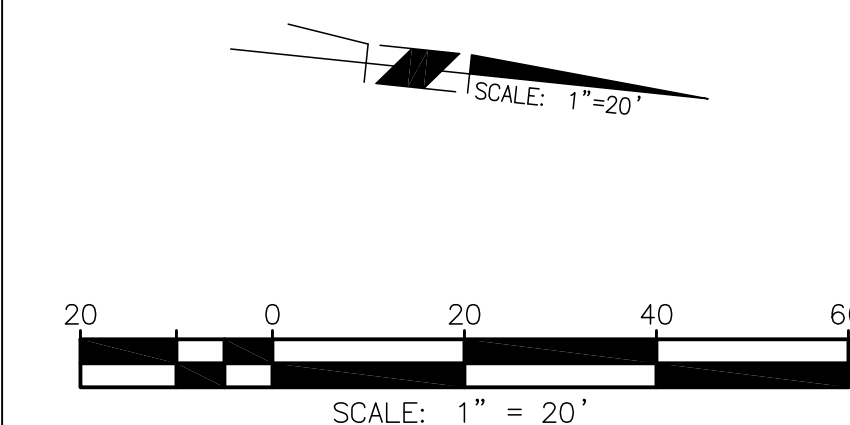
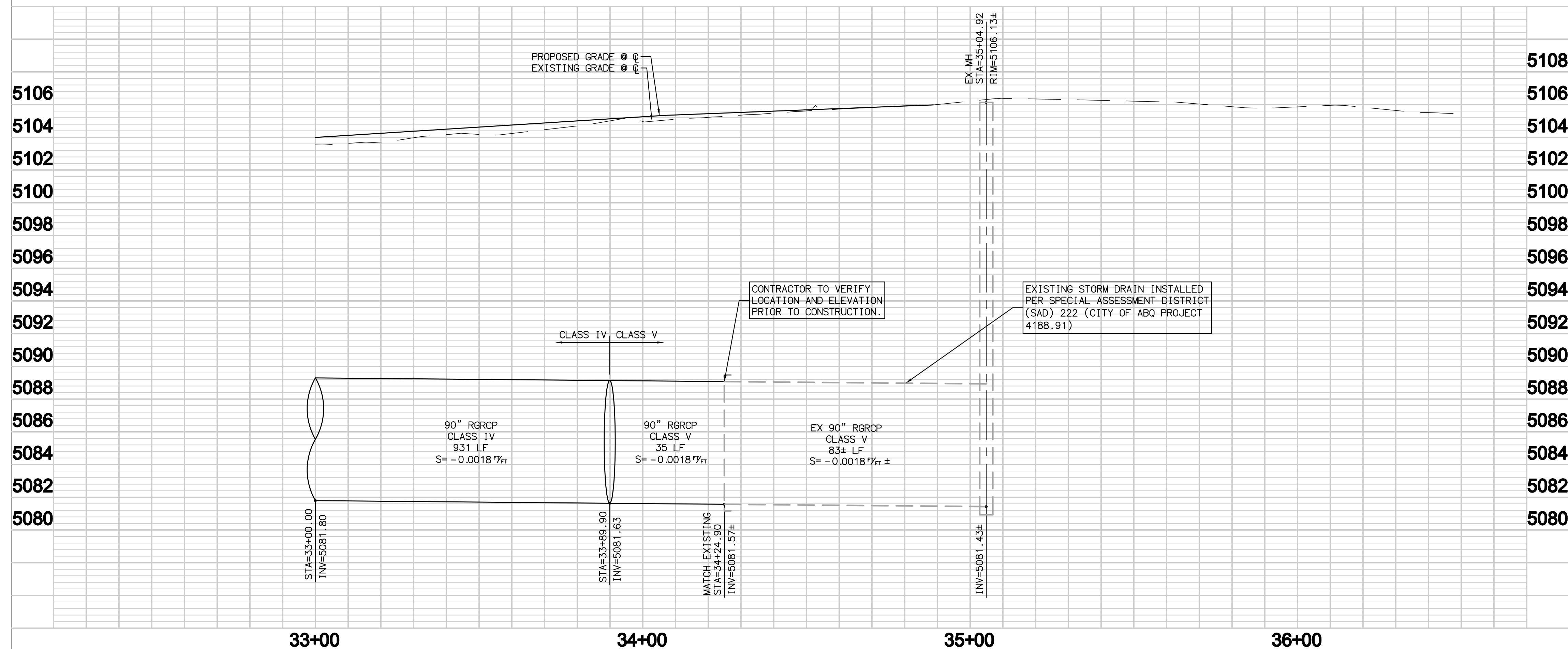
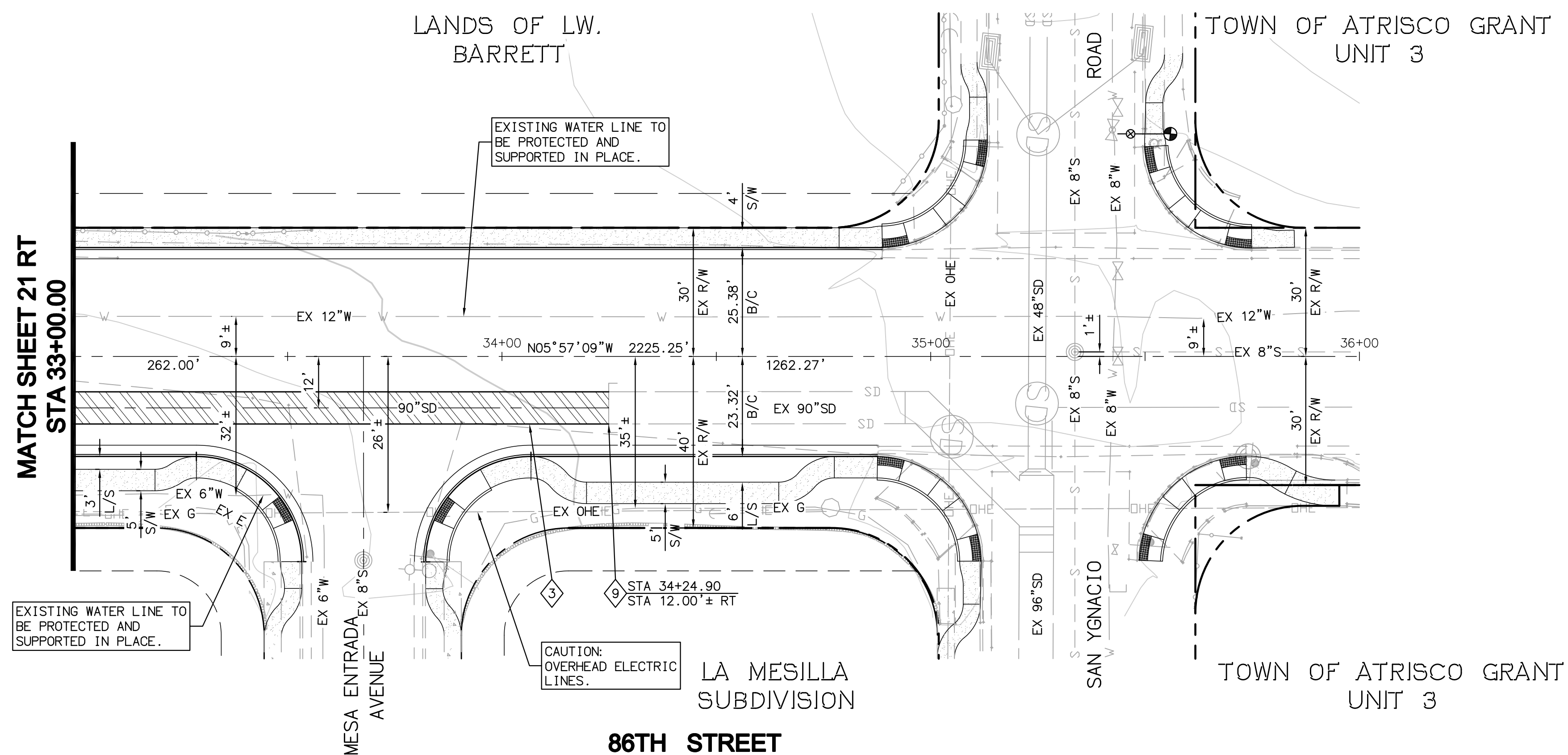
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPHIRE STREET AND SAN YGNACIO ROAD
STORM DRAIN PLANS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
7690.91	L-9 & M-9	21	47



CONSTRUCTION NOTES

- 3 INSTALL 90" RGRCP STORM DRAIN, LF, CLASS
PER PLAN.
- 9 REMOVE AND DISPOSE EXISTING PLUG AND
CONNECT TO EXISTING STORM DRAIN.
CONTRACTOR TO VERIFY LOCATION AND
ELEVATION PRIOR TO CONSTRUCTION.

[illegible]

<i>AS-BUILT INFORMATION</i>	
CONTRACTOR	DATE
WORK STARTED BY	DATE
INSPECTOR'S	DATE
ACCEPTANCE BY	DATE
FIELD EVALUATION BY	DATE
REVISIONS BY	DATE
CORRECTED BY	DATE
<i>MICRO-FILM INFORMATION</i>	
RECORDED BY	DATE
NO.	



- 1 INSTALL 18" RGRCP STORM DRAIN, LF, CLASS PER PLAN.
- 4 INSTALL STORM DRAIN INLET TYPE "A" PER COA STD DET 2201 & 2202. GRATE PER COA STD DET 2220.

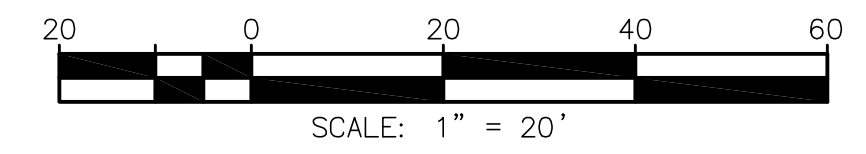
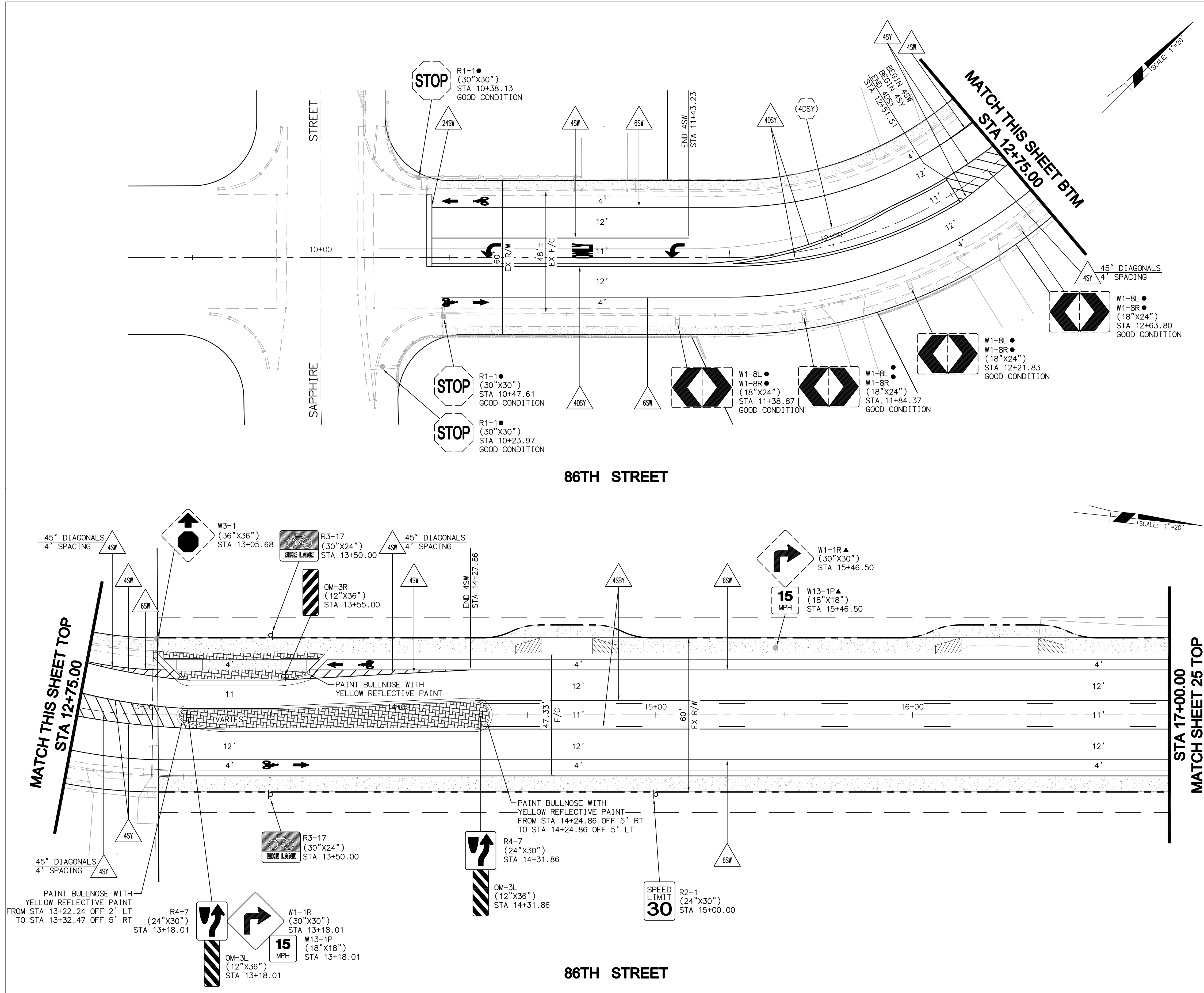
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CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPHIRE STREET AND SAN YGNACIO ROAD
STORM DRAIN PLANS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of	
7690.91	L-9 & M-9	23	47	

RECORD DRAWING

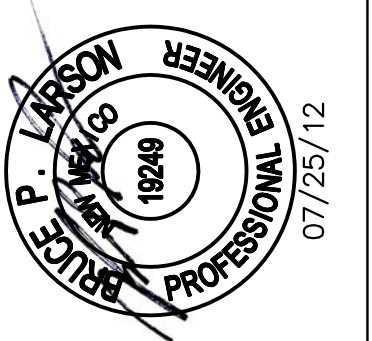


STRIPING LEGEND

- | | |
|---|--|
|  | 4" SOLID WHITE LINE. |
|  | 6" SOLID WHITE LINE. |
|  | 12" SOLID WHITE LINE. |
|  | 24" SOLID WHITE LINE. |
|  | 4" SOLID YELLOW LINE. |
|  | 4" SOLID YELLOW LINE WITH 4" BROKEN YELLOW LINE WITH 10' LINE SEGMENT AND 30' GAP. |
|  | 4" DOUBLE SOLID YELLOW LINE. |
|  | 4" DASHED WHITE LINE WITH A 10' LINE SEGMENT AND A 30' GAP. |
|  | EXISTING 4" DOUBLE SOLID YELLOW LINE TO BE REMOVED. |
|  | EXISTING STRIPING TO REMAIN. |
|  | TURN ARROW (LT). |
|  | BIKE LANE INDICATOR. |

SIGN LEGEND

- REMOVE AND SALVAGE.
 - PROTECT IN PLACE.
 - ▲ RELOCATE EXISTING SIGN AND POLE.
- 

[illegible]

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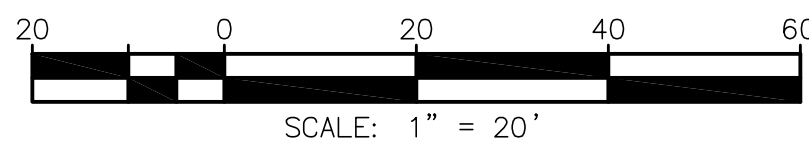
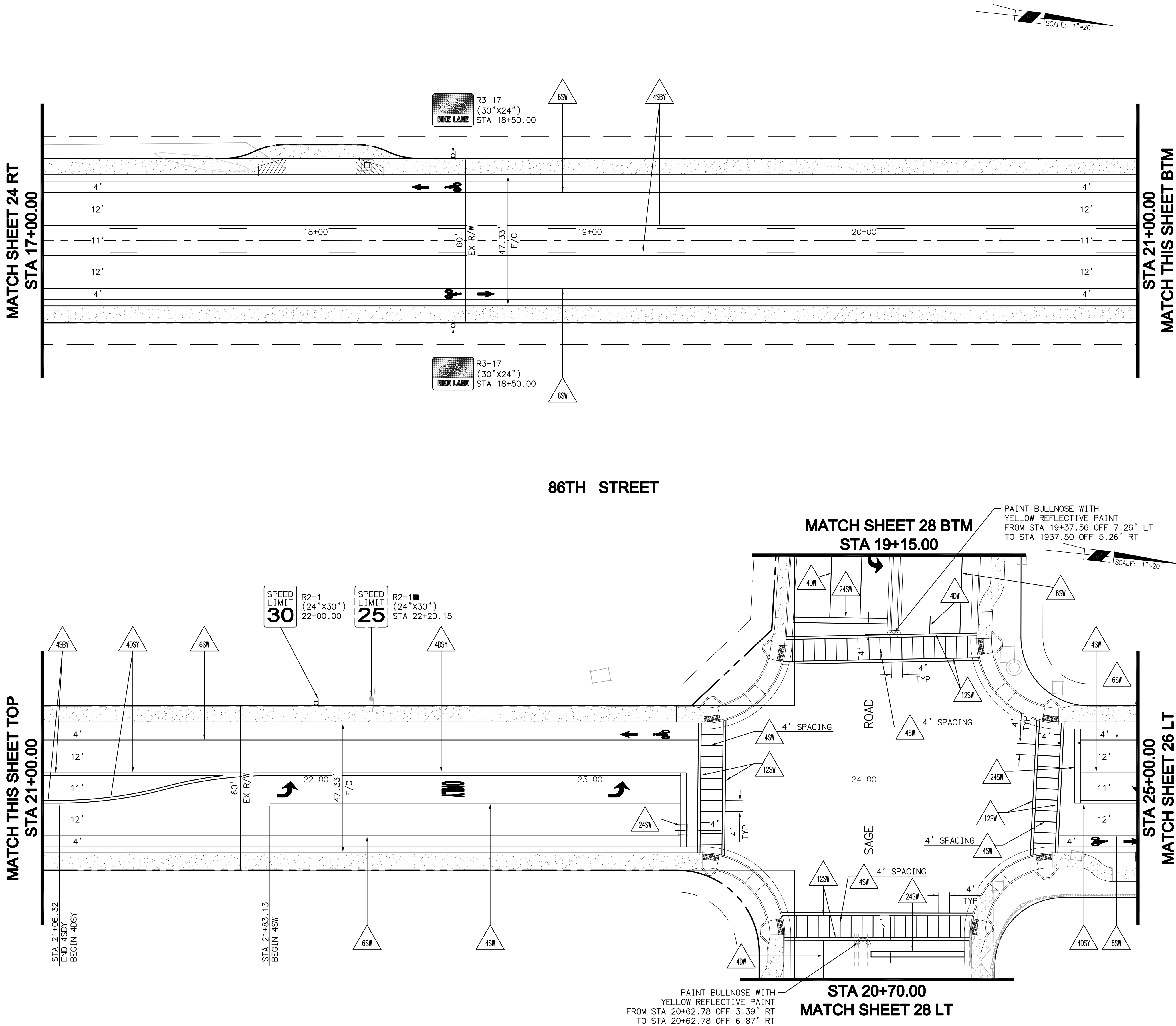


CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
SIGNING & STRIPING PLANS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 7690.91		Zone Map No. L-9 & M-9	Sheet 24	Of 47

RECORD DRAWING



STRIPING LEGEND

- | | |
|---|--|
|  | 4" SOLID WHITE LINE. |
|  | 6" SOLID WHITE LINE. |
|  | 12" SOLID WHITE LINE. |
|  | 24" SOLID WHITE LINE. |
|  | 4" SOLID YELLOW LINE. |
|  | 4" SOLID YELLOW LINE WITH 4" BROKEN YELLOW LINE WITH 10' LINE SEGMENT AND 30' GAP. |
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|  | EXISTING 4" DOUBLE SOLID YELLOW LINE TO BE REMOVED. |
|  | EXISTING STRIPING TO REMAIN. |
|  | TURN ARROW (LT). |
|  | BIKE LANE INDICATOR. |

SIGN LEGEND

- REMOVE AND SALVAGE.
 ● PROTECT IN PLACE.
 ▲ RELOCATE EXISTING SIGN AND POLE.
- FROM
 TO



Two working days before you dig
CALL NEW MEXICO ONE CALL SYSTEM

260-1990



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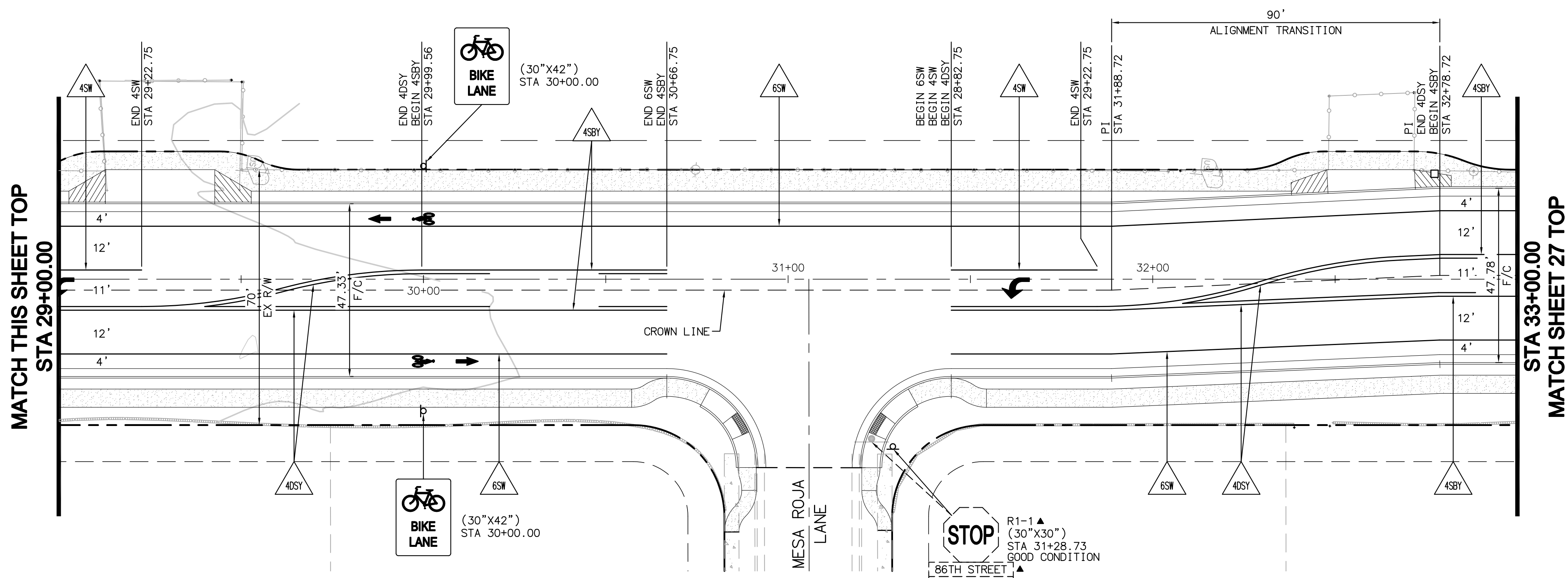
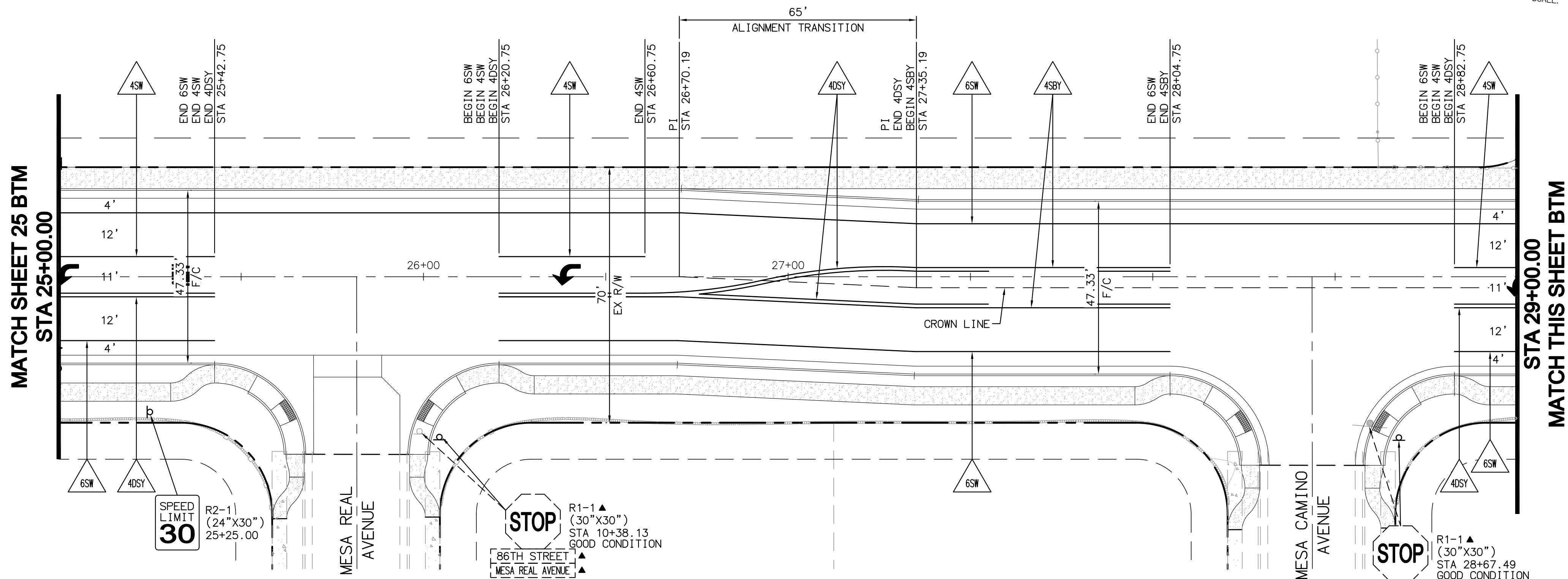
CITY OF ALBUQUERQUE

MUNICIPAL DEVELOPMENT DEPARTMENT

TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPHIRE STREET AND SAN YGNACIO ROAD
SIGNING & STRIPING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Ms./Day/Yr.	Ms./Day/Yr.
City Project No.		Zone Map No.	Sheet	Of
7690.91		L-9 & M-9	25	47



STRIPING LEGEND

- 4SW 4" SOLID WHITE LINE.
- 6SW 6" SOLID WHITE LINE.
- 12SW 12" SOLID WHITE LINE.
- 24SW 24" SOLID WHITE LINE.
- 4SY 4" SOLID YELLOW LINE.
- 4SBY 4" SOLID YELLOW LINE WITH 4" BROKEN YELLOW LINE WITH 10' LINE SEGMENT AND 30' GAP.
- 4DSY 4" DOUBLE SOLID YELLOW LINE.
- 4DW 4" DASHED WHITE LINE WITH A 10' LINE SEGMENT AND A 30' GAP.
- 4DSY EXISTING 4" DOUBLE SOLID YELLOW LINE TO BE REMOVED.
- EX EXISTING STRIPING TO REMAIN.
- TURN ARROW (LT).
- BIKE LANE INDICATOR.

SIGN LEGEND

- REMOVE AND SALVAGE.
- PROTECT IN PLACE.
- RELOCATE EXISTING SIGN AND POLE.
- FROM
- TO

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TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
SIGNING & STRIPING PLANS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
7690.91	L-9 & M-9	26	47

1 1/12

REVISED SOUTHEAST RAMP

REMARKS

REVISIONS

DESIGNED BY: RER

DRAWN BY: DLP

CHECKED BY: DJP

DATE: 08/29/11

DATE: 08/29/11

DATE: 08/29/11

REVISIONS

NO.

DATE

BY

REVISIONS

NO.

DATE

BY

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK	DATE
STANDARD	DATE
ACCEPTANCE	DATE
FIELD	DATE
REVISION	DATE
CORRECTION	DATE
RECORDED	DATE

BENCH MARKS

REFER TO COVER FOR BENCH MARKS

SURVEY INFORMATION

FIELD NOTES	DATE
NO.	BY

ENGINEER'S SEAL

P. LARSEN
19248
PROFESSIONAL ENGINEER
07/25/12

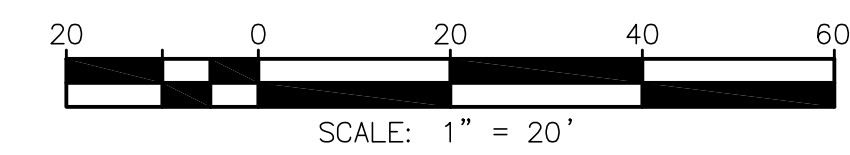
REVISIONS

NO.

DATE

BY

RECORD DRAWING

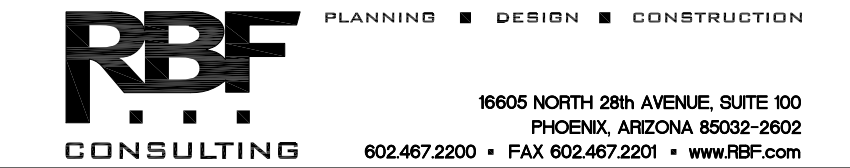


STRIPING LEGEND

- 4SW 4" SOLID WHITE LINE.
- 6SW 6" SOLID WHITE LINE.
- 12SW 12" SOLID WHITE LINE.
- 24SW 24" SOLID WHITE LINE.
- 4SY 4" SOLID YELLOW LINE.
- 4BSY 4" SOLID YELLOW LINE WITH 4" BROKEN YELLOW LINE WITH 10' LINE SEGMENT AND 30' GAP.
- 4DSY 4" DOUBLE SOLID YELLOW LINE.
- 4DW 4" DASHED WHITE LINE WITH A 10' LINE SEGMENT AND A 30' GAP.
- 4DSY EXISTING 4" DOUBLE SOLID YELLOW LINE TO BE REMOVED.
- EX EXISTING STRIPING TO REMAIN.
- TURN ARROW (LT).
- BIKE LANE INDICATOR.

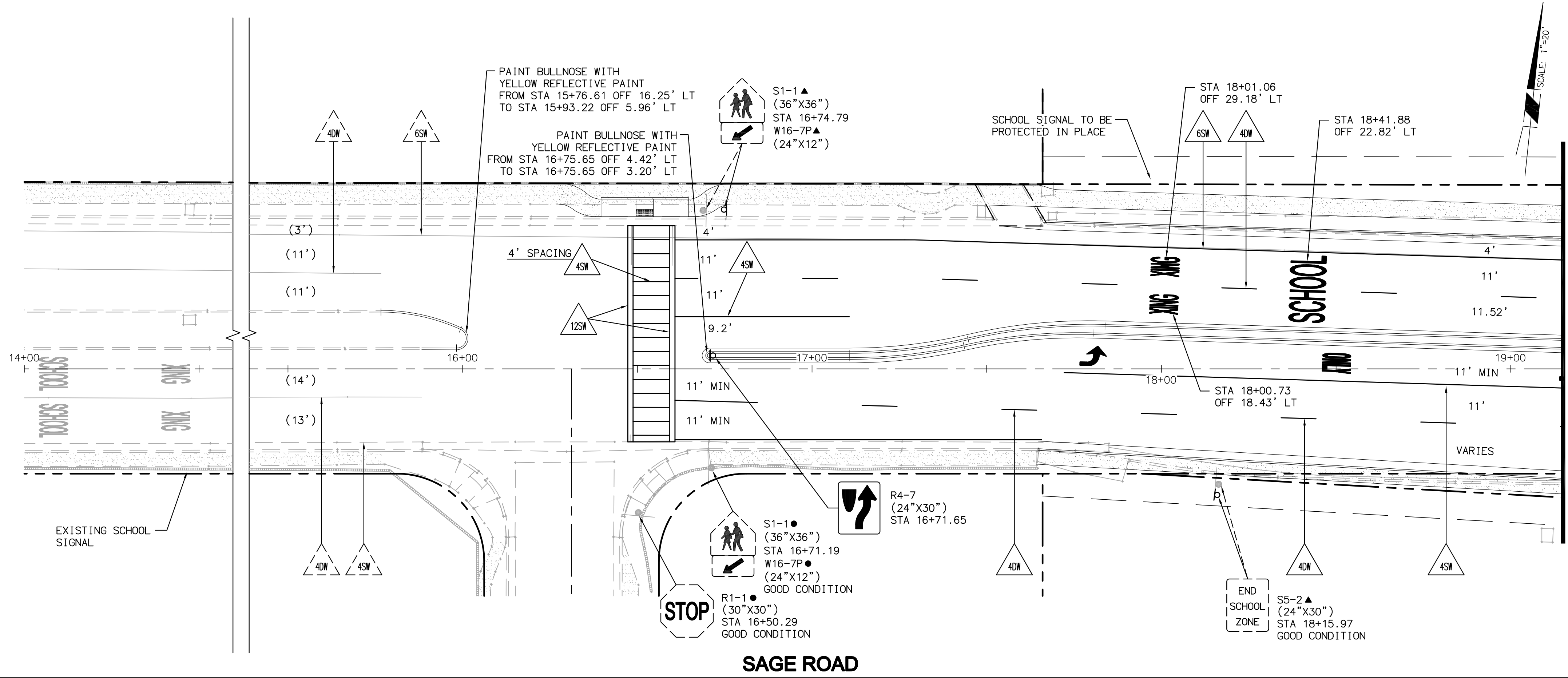
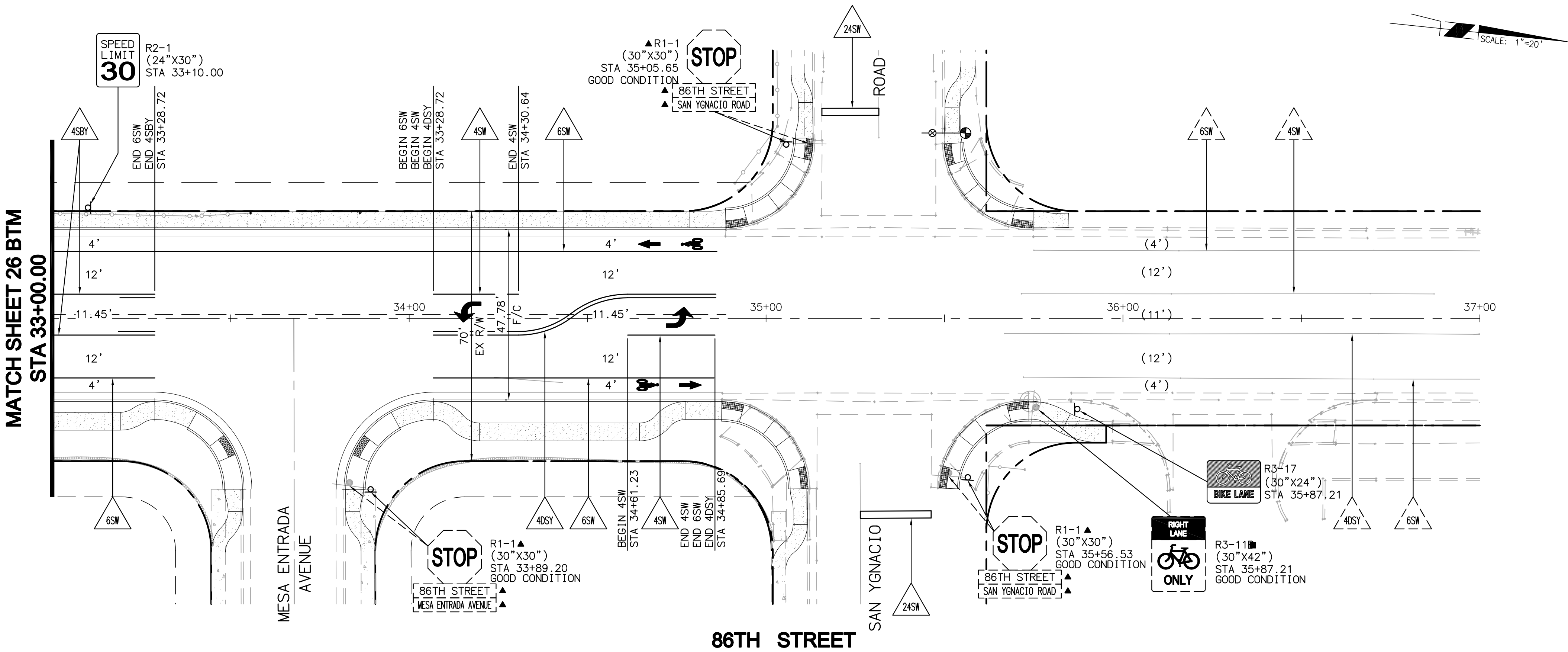
SIGN LEGEND

- REMOVE AND SALVAGE.
- PROTECT IN PLACE.
- RELOCATE EXISTING SIGN AND POLE.
- FROM
- TO



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
SIGNING & STRIPING PLANS

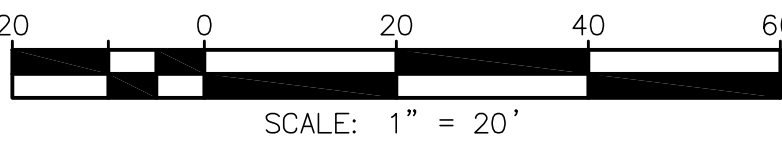
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 7690.91	Zone Map No. L-9 & M-9	Sheet 27	Of 47



RECORD DRAWING



SAGE ROAD



STRIPING LEGEND

- | | |
|---|--|
|  | 4" SOLID WHITE LINE. |
|  | 6" SOLID WHITE LINE. |
|  | 12" SOLID WHITE LINE. |
|  | 24" SOLID WHITE LINE. |
|  | 4" SOLID YELLOW LINE. |
|  | 4" SOLID YELLOW LINE WITH 4" BROKEN YELLOW LINE WITH 10' LINE SEGMENT AND 30' GAP. |
|  | 4" DOUBLE SOLID YELLOW LINE. |
|  | 4" DASHED WHITE LINE WITH A 10' LINE SEGMENT AND A 30' GAP. |
|  | EXISTING 4" DOUBLE SOLID YELLOW LINE TO BE REMOVED. |
|  | EXISTING STRIPING TO REMAIN. |
|  | TURN ARROW (LT). |
|  | BIKE LANE INDICATOR. |

SIGN LEGEND

- REMOVE AND SALVAGE.
 ● PROTECT IN PLACE.
 ▲ RELOCATE EXISTING SIGN AND POLE.
-
- FROM
- TO



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CITY OF ALBUQUERQUE

MUNICIPAL DEVELOPMENT DEPARTMENT

TRANSPORTATION DEVELOPMENT DIVISION

TITLE: **86TH STREET / SAGE ROAD IMPROVEMENTS**
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
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Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 7690.91		Zone Map No. L-9 & M-9	Sheet 28	Of 47

TRAFFIC SIGNAL PLANS

GENERAL SIGNAL NOTES

- ALL WORK ON THESE PLANS TO BE PREFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, AND THE CITY'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994).
- 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 MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
- THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
- THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
- SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SPLICE BARS. SPLICING OF TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES. SPLICING OF VIDEO DETECTION COAXIAL CABLE SILL NOT BE PERMITTED FROM THE MAST ARM BASE TO THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE DETECTOR TO THE CONTROLLER CABINET.
- ALL LOOP LEAD-IN CABLES SHALL BE TAGGED AT THE CONTROLLER CABINET TO IDENTIFY ALL EACH CABLE BY PHASE AND LOOP NUMBER. 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 CABLE SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
- ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, STEEL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS (857-8000) THREE WORKING DAYS IN ADVANCED OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT-OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED.
- THE CONTRACTOR SHALL NOTIFY PUBLIC SERVICE COMPANY 30 DAYS IN ADVANCED OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC SERVICE COMPANY TO ESTABLISH ELECTRICAL SERVICE IN THE CITY'S NAME. THE CONTRACTOR SHALL PAY THE LOCAL POWER COMPANY ALL COSTS TO PROVIDED ELECTRICAL SERVICE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE CITY TRAFFIC ENGINEERING YARDS WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
- LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED IN MAST ARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE.
- IF TRENCH WIDTH LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
- FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES, THE REQUIREMENTS FOR A SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRIC CODE.
- THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
- EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
- EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PILLBOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
- CONTRACTOR SHALL COIL EXCESS INTERCONNECT CABLE AT ALL NEW OR EXISTING TRAFFIC MANHOLES BETWEEN SPLICE CABINET OR CONTROL CABINETS WITH SPLICE BARS. IF MORE THAN ONE MANHOLE EXISTS BETWEEN SPLICE CABINETS OR CONTROL CABINETS WITH SPLICE BARS, THEN COILING IS ONLY REQUIRED AT ONE OF THE MANHOLES. THE FOLLOWING QUANTITIES OF COMMUNICATION CABLE SHALL BE COILED:
12 PAIR - 50 FT.
25 PAIR - 50 FT.
50 PAIR - 25 FT.
75 PAIR - 25 FT.
- THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
- ALL DATA SHOWN HERE IN CONCERNING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING. IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES. COST OF LOCATING UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- THE CONTRACTOR SHALL VIDEO RECORD THE EXISTING TRAFFIC SIGNAL EQUIPMENT IN DVD FORMAT AND REVIEW THE VIDEO WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL PRIOR TO BEGINNING ANY REMOVALS OF SIGNAL EQUIPMENT. THE DVD SHALL BECOME THE PROPERTY OF THE CITY AND MAY BE USED TO RESOLVE ANY QUESTIONS RELATED TO THE ORIGINAL CONDITION AND QUALITY OF EXISTING EQUIPMENT. THE EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER CABINETS, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE.
- ALL SALVAGED EQUIPMENT SHALL BE RETURNED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD. LOADING, HAULING AND UNLOADING SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. NOTIFY C.O.A. TRAFFIC OPERATIONS 48 HOURS PRIOR FOR SCHEDULING. ANY EQUIPMENT NOT DESIRED BY C.O.A. SHALL BE DISPOSED OF PROPERLY BY CONTRACTOR.

INCIDENTAL ITEMS

- REMOVAL OF EXISTING PULL BOXES, CONDUITS, OR OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
- CABLE TESTING AND DIAGRAMS.
- BORING, DRILLING, PUSHING, AND TRENCHING, INCLUDING REMOVAL AND REPLACEMENT OF PAVEMENT, SIDEWALKS, DRIVE PADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS). FOR INSTALLATION OF PULL BOXES, CONDUITS, AND SIGNAL FOUNDATIONS, EXCEPT AS NOTED ON THE PLANS.
- LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
- DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIALS.
- APPRIISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
- HAULING OF MATERIAL TO BE DISPOSED TO CITY LANDFILL.
- REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE TRAFFIC ENGINEERING YARD.
- LEAN FILL FOR CONDUIT TRENCHES.
- PULL BOX ADJUSTMENT TO GRADE.
- OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
- REMOVAL AND REPLACEMENT IN KIND OR BETTER OF LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATION.
- COST FOR PUBLIC SERVICE COMPANY TO PROVIDE ELECTRICAL SERVICE.

*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.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

- THIS PROJECT IS AN EXTENSION OF AN EXISTING SIGNAL SYSTEM. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AS INDICATED ON THE PLANS.
- 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 PAIR CABLE (NUMBER OF SPLICE BLOCKS IN EACH CABINET SHALL BE BELL SYSTEM NUMBER OF CONDUCTORS SHOWN ON PLANS). SPLICE BLOCKS SHALL BE BELL SYSTEMS PAR #66B3-50 OR APPROVED EQUAL. ALL COMMUNICATION CABLE SHALL BE TERMINATED AT THE SPLICE BLOCK INCLUDING INACTIVE PAIRS.
- INTERCONNECT CABLES SHALL COMPLY WITH REA SPECIFICATION PE-22. INTERCONNECT CABLE SHALL CONTAIN THE NUMBER OF WIRE PAIRS SHOWN ON THE PLANS AND THE INDIVIDUAL CONDUCTORS SHALL BE 19 AWG SOLID.
- EMERGENCY VEHICLE PRE-EMPT EQUIPMENT SHALL BE 3M "OPTICOM" MODEL 562 OR LATEST MODEL PHASE SELECTORS MOUNTED ON 3M "OPTICOM" MODEL 560 RACKS, OR APPROVED EQUAL. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION EACH. OPTICAL DETECTORS SHALL BE 3M "OPTICOM" MODEL 511, ONE (1) CHANNEL, ONE (1) DIRECTION OR APPROVED EQUAL. OPTICAL DETECTOR CABLE SHALL BE 3M "OPTICOM" MODEL 138 OR EQUAL. OPTICAL DETECTOR CABLE SHALL BE 3M "OPTICOM" MODEL 138 OR EQUAL. OPTICAL EMITTERS SHALL BE 3M "OPTICOM" MODEL 592 WITH POWER SUPPLY, CABLE, AND SWITCHES, OR APPROVED EQUAL. A MANUFACTURER'S REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE FIELD AS WORK PROGRESSES TO COMPLETE THE INSTALLATION OF ALL PRE-EMPTION EQUIPMENT AND ASSIST IN SETTING UP, TURNING ON, PROGRAMMING AND FIELD TESTING PRE-EMPTION EQUIPMENT INCLUDING EMITTERS TO INSURE THAT THE EQUIPMENT IS OPERATIONAL.
- ALL SIGNAL ASSEMBLIES, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, CABINETS, AND FITTINGS SHALL COMPLY WITH THE CITY OF ALBUQUERQUE TYPE AND COLOR REQUIREMENTS.
- ALL SIGNAL INDICATIONS SHALL BE LED. ALL PEDESTRIAN SIGNALS SHALL BE FILLED IN LED "MAN/HAND" STYLE WITH COUNTDOWN TIMERS PER MUTCD SECTION 4E.07. LED'S SHALL MEET 2005 ITE SPECIFICATIONS
- ALL PEDESTRIAN PUSH BUTTONS SHALL BE VIBROTACTILE WITH AUDIBLE SPEECH ALERTS FOR WALK AND LOCATOR TONE PER 2009 MUTCD.
- ALL WIRE SPLICES IN PULL BOXES OR HANDHOLES SHALL BE MADE WITH GEL FILLED WIRE NUTS.

DEFINITIONS

- "ENGINEER" IS SYNONYMOUS WITH THE TERM "PROJECT MANAGER", FOR THE PURPOSES OF THIS PROJECT.

TRAFFIC SIGNAL LEGEND

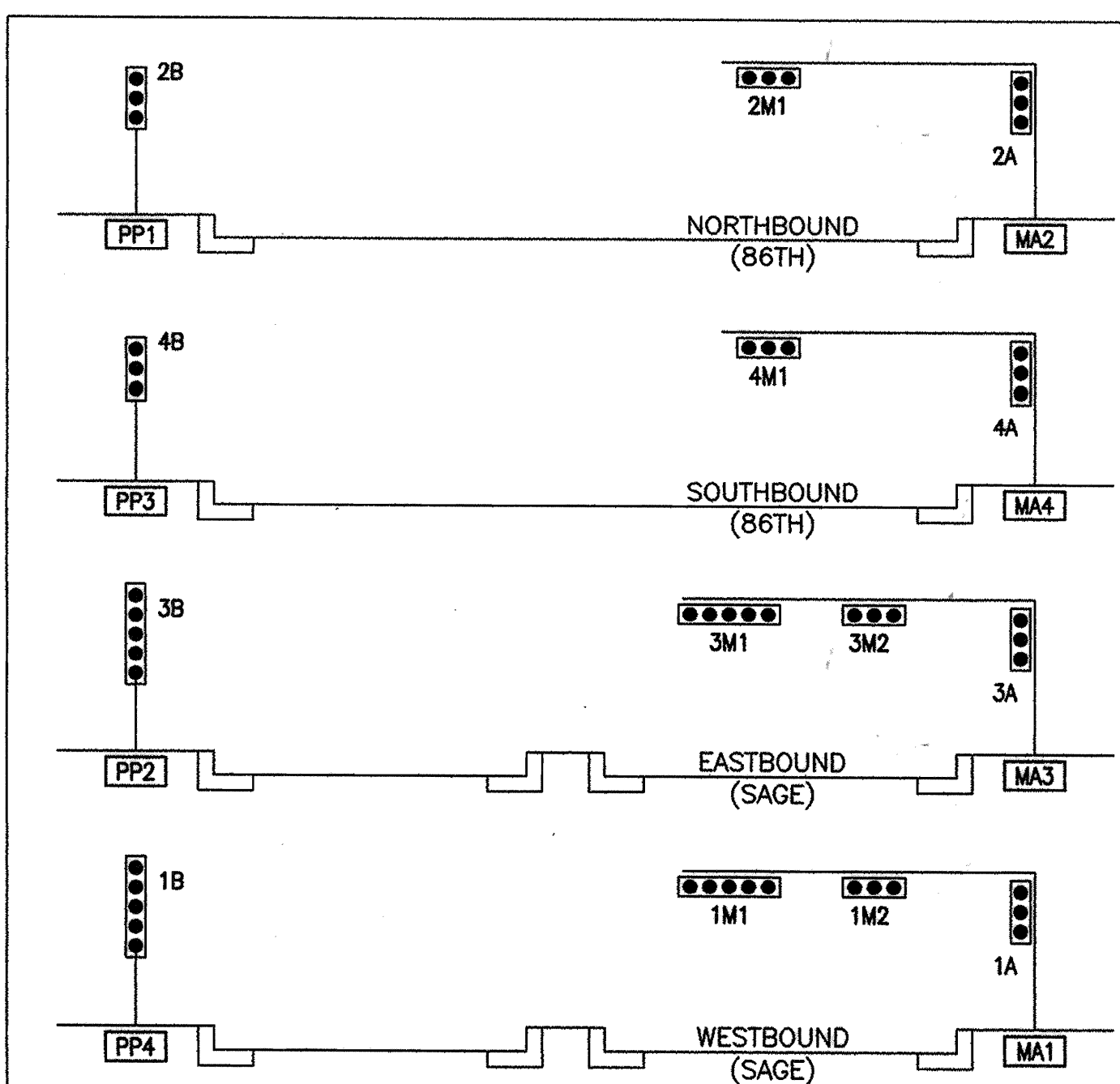
EX	NEW	ITEM
		SMALL PULL BOX
		LARGE PULL BOX
		METER PEDESTAL
		CONDUIT RUN
		CONDUIT RUN NUMBER (SIGNAL)
		CONDUIT RUN NUMBER (POWER SERVICE)
		PEDESTRIAN PUSH BUTTON
		PEDESTRIAN SIGNAL
		PRE-EMPTION DETECTOR
		SIGNAL INDICATION
		STREET NAME SIGN
		LUMINAIRE

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK IN PROGRESS	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS	DATE
CORRECTED BY	DATE
RECORDED BY	DATE
NO.	
BENCH MARKS	
SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	BY
ENGINEER'S SEAL	
REVISIONS	
NO.	DATE
DESIGNED BY: AMB	
DRAWN BY: AMB	
CHECKED BY: ADK	
DATE: 12/10	
DATE: 12/10	
DATE: 12/10	

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		CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION	
TITLE: PROJECT NAME 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	
City Project No.		Zone Map No.	Sheet Of
7690.91		L-9 & M-9	29 47



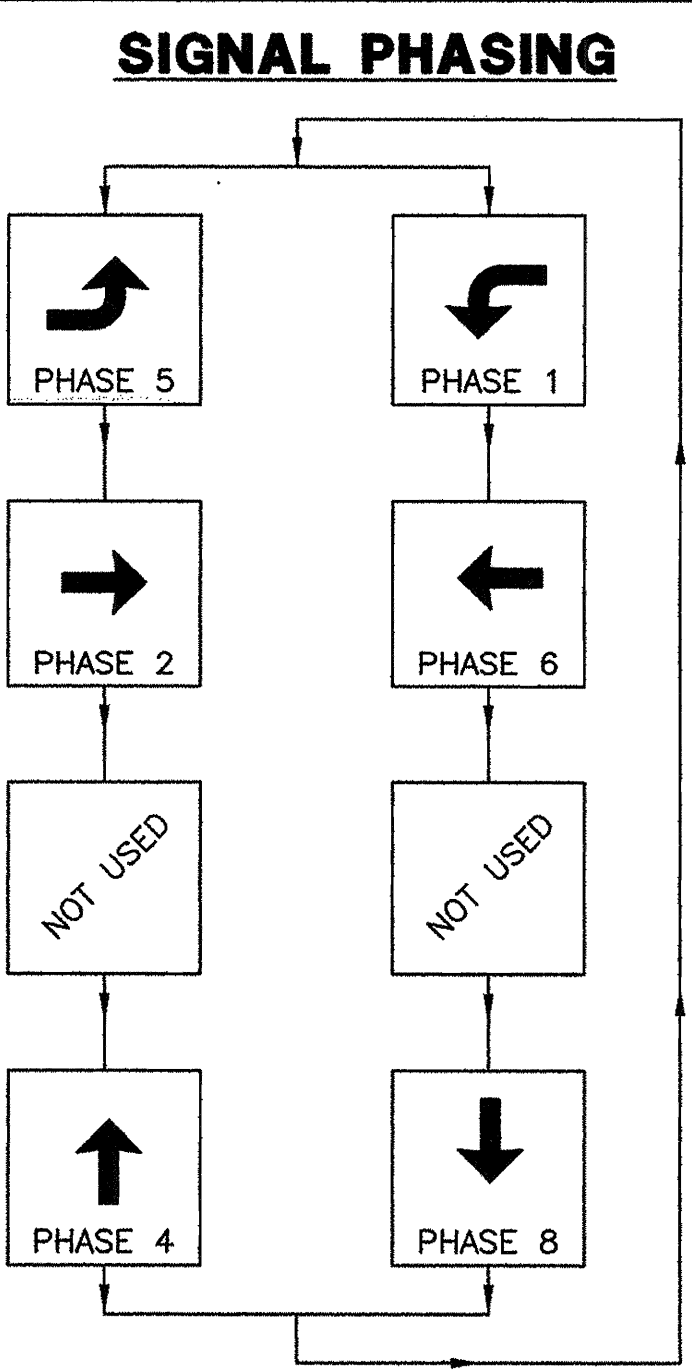
ID #	STATION	OFFSET	TYPE
PB1	19+60	51' LT	NEW - LARGE
PB2	20+40	48' LT	NEW - LARGE
PB3	EXISTING	EXISTING	EX - LARGE
PB4	20+41	49' RT	NEW - LARGE
PB5	19+60	49' RT	NEW - LARGE
PB6	EXISTING	EXISTING	EX - SMALL
PB7	19+37	6' LT	NEW - SMALL
PB8	19+67	58' LT	NEW - SMALL
PB9	20+32	55' RT	NEW - SMALL

STATION AND OFFSETS ARE BASED ON SAGE RD.

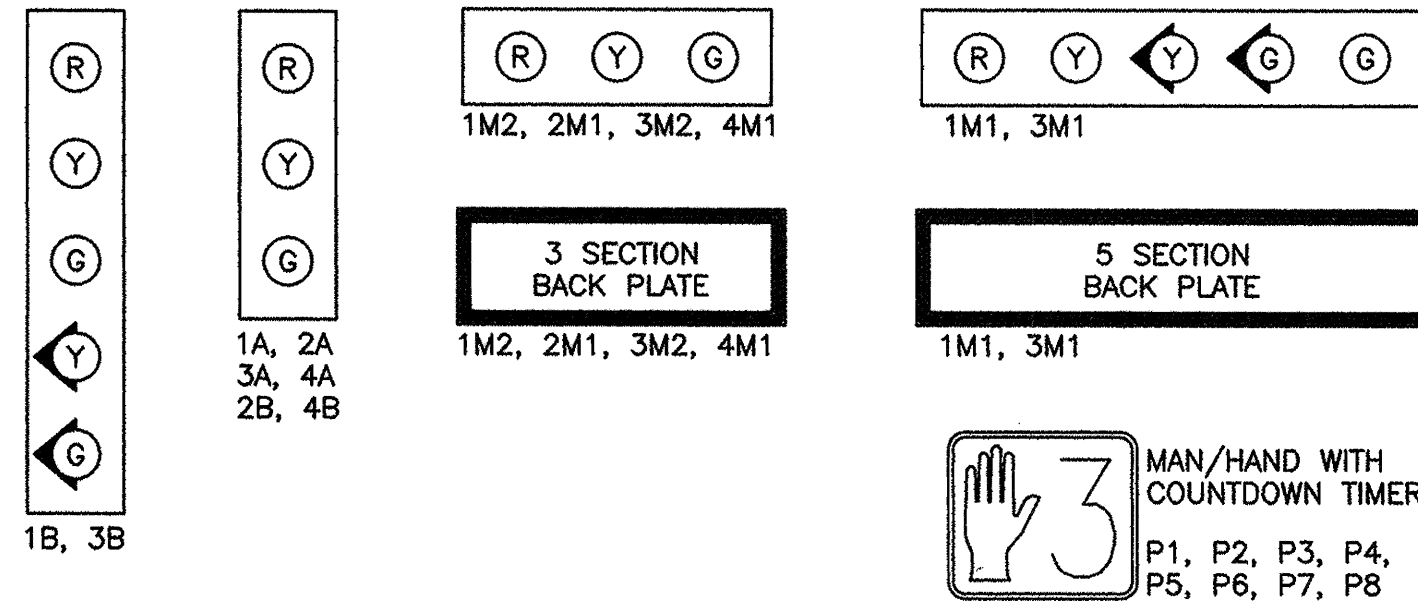
ID #	STATION	OFFSET	TYPE
CC1	19+34.0	47.0' LT	RELOCATED CONTROLLER CABINET
MA1	19+47.5	43.4' LT	MASTARM - TYPE II - 40'
MA2	20+30.7	61.7' LT	MASTARM - TYPE II - 20'
MA3	20+52.4	40.8' RT	MASTARM - TYPE II - 35'
MA4*	19+69.0	60.4' RT	MASTARM - TYPE III - 20'
MA5	EXISTING	EXISTING	EX. MASTARM - SCHOOL BEACON
PP1	19+69.5	63.8' LT	PED POLE - 13'
PP2	20+50.9	40.8' LT	PED POLE - 15'
PP3	20+30.4	61.0' RT	PED POLE - 13'
PP4	19+49.0	40.0' RT	PED POLE - 15'

STATION AND OFFSETS ARE BASED ON SAGE RD.

* POLE MA4 SHALL HAVE A 250W HPS FULL CUTOFF COBRAHEAD LUMINAIRE WITH PEC PER C.O.A. SPECIFICATIONS.



TYPICAL SIGNAL FACE LENS ARRANGEMENTS



ABBREVIATIONS

- MA1 MAST ARM POLE NUMBER
- PP1 PEDESTAL POLE NUMBER
- PPB1 PEDESTRIAN PUSH BUTTON NUMBER
- CC1 CONTROL CABINET NUMBER
- SC1 SPLICE CABINET NUMBER
- PB1 PULL BOX NUMBER (SIGNAL)
- 3A SIGNAL HEAD NUMBER
- P1 PEDESTRIAN SIGNAL NUMBER
- EC EXTENDED CALL LOOP DETECTOR
- MH1 TRAFFIC MANHOLE NUMBER

CONSTRUCTION NOTES

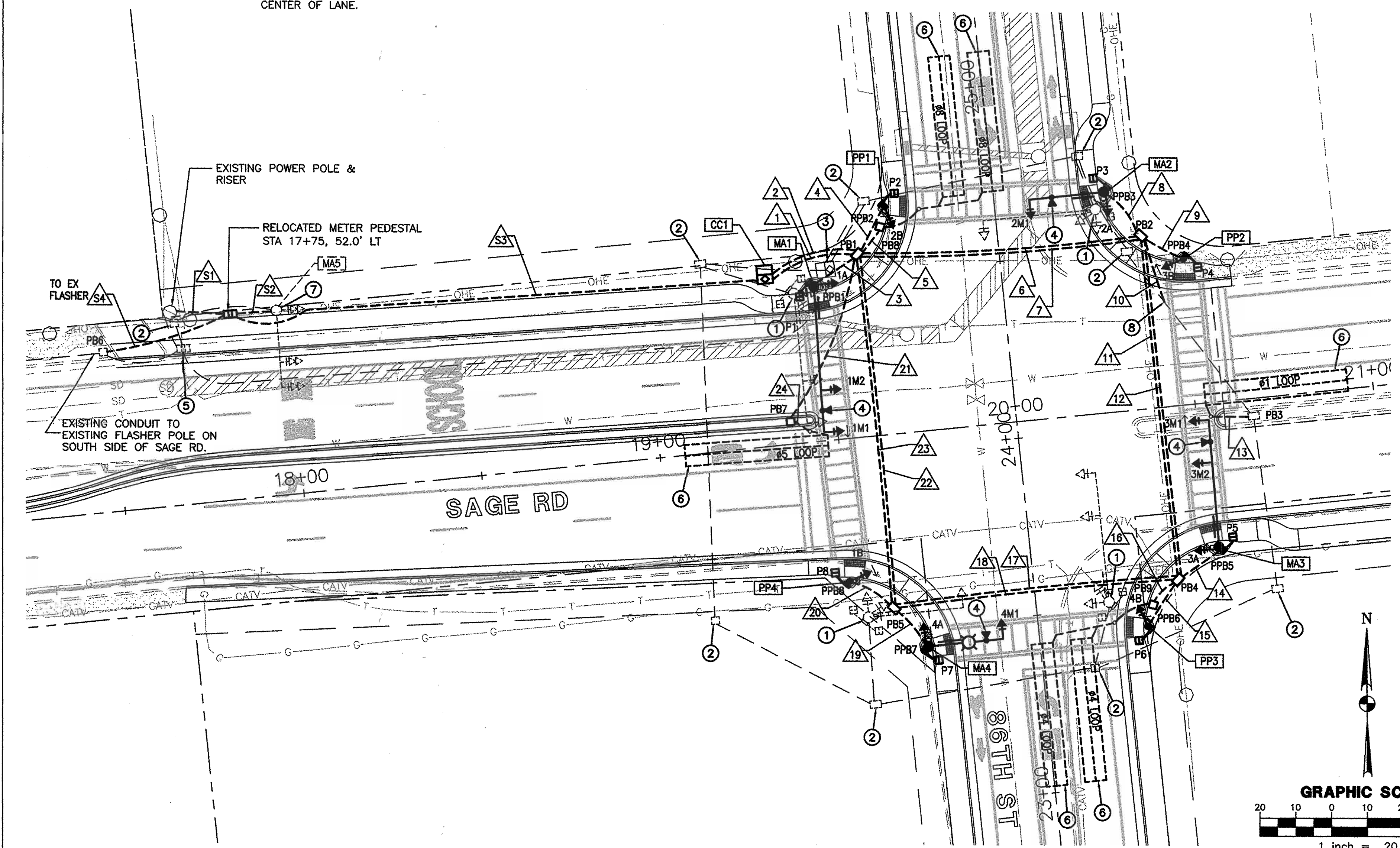
- REMOVE AND SALVAGE EXISTING SIGNAL POLE. RELOCATE EXISTING STREET NAME SIGN TO NEW MAST ARM POLE ON THE SAME CORNER. RETURN ALL OTHER ITEMS TO C.O.A. DEMOLISH EXISTING FOUNDATIONS TO 36" BELOW GRADE.
- REMOVE & SALVAGE EXISTING PULL BOX. REMOVE CONDUCTORS, & CONDUIT SWEEPS. ABANDON HORIZONTAL CONDUIT RUNS IN PLACE.
- RELOCATE EXISTING CONTROLLER CABINET & CABINET EQUIPMENT TO NEW FOUNDATION AT LOCATION SHOWN ON PLANS. DEMO EXISTING FOUNDATION, CUT OFF & DISPOSE OF EXISTING CONDUIT SWEEPS.
- INSTALL PRE-EMPTION DETECTOR 6' FROM END OF MAST ARM.
- RELOCATE EXISTING POWER SERVICE PEDESTAL TO NEW FOUNDATION. COORDINATE WORK WITH PNM. RECONNECT ALL EXISTING LOADS WITH LIKE SIZE CONDUIT & CONDUCTORS. DEMO EXISTING FOUNDATION, CUT OFF & DISPOSE OF EXISTING CONDUIT SWEEPS.
- INSTALL 6"x40' QUADRUPOLE LOOP DETECTOR CENTERED IN LANE PER COA DTL 2552.
- CONTRACTOR SHALL RE-INSTALL ALL NECESSARY WIRING TO ENSURE THAT BOTH FLASHER POLES ARE FULLY OPERATIONAL.
- INTERCEPT EXISTING CONDUIT RUN TO PULL BOX PB3 IN MEDIAN & TIE INTO NEW RUN.

FLASH CONDITIONS

- RED HEADS, 1A, 1B, 1M1, 1M2
- RED HEADS, 3A, 3B, 3M1, 3M2
- RED HEADS, 2A, 2B, 2M1
- RED HEADS, 4A, 4B, 4M1

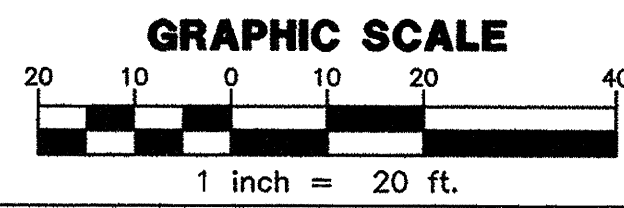
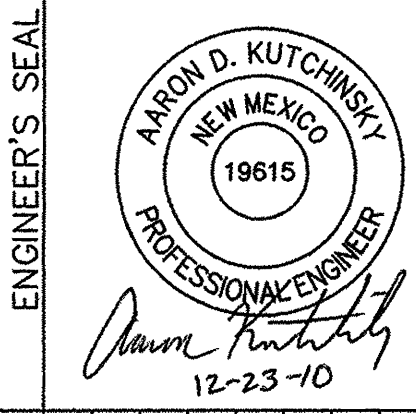
INITIALIZATION

ALL RED, THEN PHASE 2 AND 6 GREEN



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CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION	
PROJECT NAME 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD	
Design Review Committee APPROVED SEP 01 2011 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED SEP 01 2011 CITY ENGINEER
City Project No. 7690.91	Zone Map No. L-9 & M-9
Sheet 30	Of 47



CONDUIT AND CONDUCTOR REQUIREMENTS													
CONDUIT LENGTH, SIZE, AND TYPE													
RUN ID	SIZE/LENGTH			TYPE	REMARKS	MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC #2 (# @ FT)	SCC #6-GR (# @ FT)	SCC #6-WH (# @ FT)	SCC #8 (# @ FT)	SCC #12 (# @ FT)
	1"	2"	3"										LOOP (# @ FT)
S1				PVC	POWER TO METER					1 @ 25			
S2		12		PVC	METER TO MA5							3 @ 17	
S3			150	PVC	METER TO CC1				3 @ 155			4 @ 155	
S4		35		PVC	METER TO PB6							3 @ 40	
1			25	PVC	CC1 TO PB1	1 @ 30		2 @ 30		1 @ 30	1 @ 30	4 @ 30	
2			25	PVC	CC1 TO PB1								4 @ 30
3			15	PVC	PB1 TO MA1	1 @ 20		1 @ 20		1 @ 20	1 @ 20	2 @ 20	1 @ 20
4			15	PVC	PB1 TO PP1	1 @ 20		1 @ 20		1 @ 20	1 @ 20		
5			20	PVC	PB1 TO PB8								2 @ 25
6			80	PVC	PB1 TO PB2	1 @ 85		2 @ 85		1 @ 85	1 @ 85	2 @ 85	
7			80	PVC	PB1 TO PB2								2 @ 85
8			16	PVC	PB2 TO MA2	1 @ 21		1 @ 21		1 @ 21	1 @ 21	2 @ 21	1 @ 21
9			14	PVC	PB2 TO PP2	1 @ 19		1 @ 19		1 @ 19	1 @ 19		
10			16	PVC	PB2 TO PB3								1 @ 61
11			100	PVC	PB2 TO PB4	1 @ 105		2 @ 105		1 @ 105	1 @ 105	2 @ 105	
12			100	PVC	PB2 TO PB4								1 @ 105
13		12		PVC	PB3 TO LOOPS								2 @ 105
14			15	PVC	PB4 TO MA3	1 @ 20		1 @ 20		1 @ 20	1 @ 20	2 @ 20	1 @ 20
15			15	PVC	PB4 TO PP3	1 @ 20		1 @ 20		1 @ 20	1 @ 20		
16			20	PVC	PB4 TO PB9								2 @ 25
17			80	PVC	PB4 TO PB5	1 @ 105		2 @ 105		1 @ 105	1 @ 105		
18			80	PVC	PB4 TO PB5					1 @ 105			
19			15	PVC	PB5 TO MA4	1 @ 20		1 @ 20		1 @ 20	1 @ 20	4 @ 20	1 @ 20
20			15	PVC	PB5 TO PP4	1 @ 20		1 @ 20		1 @ 20	1 @ 20		
21			50	PVC	PB1 TO PB7								1 @ 55
22			100	PVC	PB5 TO PB1	1 @ 105		2 @ 105		1 @ 105	1 @ 105	4 @ 105	
23			100	PVC	PB5 TO PB1								1 @ 105
24			6	PVC	PB7 TO LOOPS								1 @ 11
MA1					TO 1M1		1 @ 66						
					TO 1M2	1 @ 54							
					TO 1A	1 @ 15							
					TO P1	1 @ 15							
MA2					TO PPB1								1 @ 9
					TO 2M1	1 @ 46							
					TO 2A	1 @ 15							
					TO P3	1 @ 15							
MA3					TO PPB3								1 @ 9
					TO 3M1		1 @ 61						
					TO 3M2	1 @ 49							
					TO 3A	1 @ 15							
MA4					TO P5	1 @ 15							
					TO PPB5								1 @ 9
					TO 4M1	1 @ 46							
					TO 4A	1 @ 15							
PP1					TO P7	1 @ 15							
					TO PPB7								1 @ 9
					TO 2B	1 @ 15							
					TO P2	1 @ 15							
PP2					TO PPB2								1 @ 9
					TO 3B		1 @ 15						
					TO P4	1 @ 15							
					TO PPB4								1 @ 9
PP3					TO 4B	1 @ 15							
					TO P6	1 @ 15							
					TO PPB6								1 @ 9
					TO 1B		1 @ 15						
PP4					TO P8	1 @ 15							
					TO PPB8								1 @ 9

CONDUCTOR NOTES

- IDENTIFY CONDUCTORS LISTED AS "115 VOLTS"
- 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 BOX AND LOCATED 6" BACK FROM THE END.
- IDENTIFY CONDUCTORS LISTED AS "PPB - LOW VOLTAGE" AT EACH SPLICE POINT. FIVE (5) CONDUCTOR CABLES SHALL BE 24 VOLTS AND USED FOR PUSH BUTTONS ONLY.
- ALL LOOP LEAD-IN CABLES SHALL BE UNSPLICED FROM CONTROLLER CABINET TO PULL BOX CLOSEST TO LOOP DETECTORS.

FUNCTION CHART - 115 VOLT CIRCUIT						
CONDUCTOR			RING - 1 MULTI CONDUCTOR CABLE 20		RING - 2 MULTI CONDUCTOR CABLE 20	
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		PHASE 5 RED	
4	GREEN	-	PHASE 1 GREEN	GREEN LT ARROW 3M1, 3B	PHASE 5 GREEN	GREEN LT ARROW 1M1, 1B
5	ORANGE	-	PHASE 1 YELLOW	YELLOW LT ARROW 3M1, 3B	PHASE 5 YELLOW	YELLOW LT ARROW 1M1, 1B
6	BLUE	-	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 3A, 3B, 3M1, 3M2	PHASE 6 RED	RED BALL 1A, 1B, 1M1, 1M2
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 3A, 3B, 3M1, 3M2	PHASE 6 GREEN	GREEN BALL 1A, 1B, 1M1, 1M2
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 3A, 3B, 3M1, 3M2	PHASE 6 YELLOW	YELLOW BALL 1A, 1B, 1M1, 1M2
11	BLUE	BLACK	PHASE 2 WALK	PED. WALK P6, P7	PHASE 6 WALK	PED. WALK P2, P3
12	BLACK	WHITE	PHASE 2 DON'T WALK	PED. DON'T WALK P6, P7	PHASE 6 DON'T WALK	PED. DON'T WALK P2, P3
13	RED	WHITE	PHASE 3 RED		PHASE 7 RED	
14	GREEN	WHITE	PHASE 3 GREEN		PHASE 7 GREEN	
15	BLUE	WHITE	PHASE 3 YELLOW		PHASE 7 YELLOW	
16	BLACK	RED	PHASE 4 RED	RED BALL 2A, 2B, 2M1	PHASE 8 RED	RED BALL 4A, 4B, 4M1
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 2A, 2B, 2M1	PHASE 8 GREEN	GREEN BALL 4A, 4B, 4M1
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 2A, 2B, 2M1	PHASE 8 YELLOW	YELLOW BALL 4A, 4B, 4M1
19	BLUE	RED	PHASE 4 WALK	PED. WALK P4, P5	PHASE 8 WALK	PED. WALK P1, P8
20	RED	GREEN	PHASE 4 DON'T WALK	PED. DON'T WALK P4, P5	PHASE 8 DON'T WALK	PED. DON'T WALK P1, P8

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

ABBREVIATIONS

- GR

LOOP

MA

MCC

PB

PP

PPB

REC

SCC

WH
- GREEN

DETECTOR LOOP LEAD-IN CABLE

MASTARM

MULTI CONDUCTOR CABLE

PULLBOX

PEDESTRIAN POLE

PEDESTRIAN PUSH BUTTON

RIGID ELECTRIC CONDUIT

SINGLE CONDUCTOR CABLE

WHITE

W

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W.E.C. JOB # 09149

CITY OF ALBUQUERQUE

MUNICIPAL DEVELOPMENT DEPARTMENT

TRANSPORTATION DEVELOPMENT DIVISION

TITLE:

PROJECT NAME

86TH STREET / SAGE ROAD IMPROVEMENTS

BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD

Design Review Committee

City Engineer Approval

Least Design Update

City Project No.

7690.91

Zone Map No.

L-9 & M-9

Sheet

31

Of

47

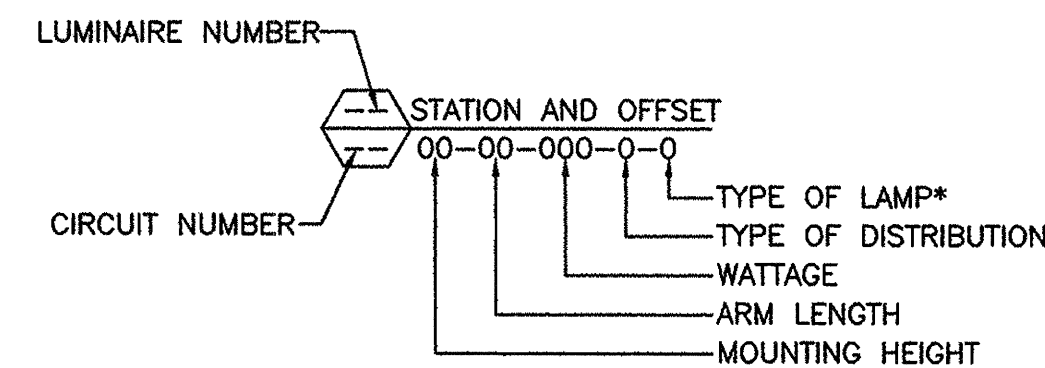
1. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
2. ALL WIRE ON THIS PROJECT SHALL BE COPPER ONLY.
3. LIGHTING STANDARDS SHALL HAVE DIRECT ANCHOR BASE.
4. ALL ROADWAY AND OVERHEAD SIGN LIGHTING CIRCUITS ON THIS PROJECT SHALL BE 240 VOLTS.
5. ALL PULL BOXES INSTALLED FOR ROADWAY, OVERHEAD SIGN STRUCTURES, OR PEDESTRIAN LIGHTING SHALL BE STANDARD SIZE.
6. CONTRACTOR SHALL REMOVE EXISTING CONDUITS AND PULL BOXES THROUGH OUT THE PROJECT AS DIRECTED BY PROJECT MANAGER.
7. REWIRING OF EXISTING LUMINAIRES TO REMAIN, TO BE REMOVED AND RESET, AND CONNECTIONS TO NEW CIRCUITS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
8. EACH CIRCUIT FOR ROADWAY LIGHTING, PEDESTRIAN LIGHTING, OVERHEAD SIGN LIGHTING AND UNDERPASS LIGHTING SHALL BE INSTALLED IN SEPARATE CONDUITS UNLESS OTHERWISE APPROVED.
9. ALL ROADWAY LUMINAIRES AND TYPE V STANDARDS WHICH ARE REMOVED SHALL BE SALVAGED AND DELIVERED TO C.O.A. TRAFFIC ENGINEERING YARD BY THE CONTRACTOR.
10. EACH TIME A ROADWAY LUMINAIRE, OVERHEAD SIGN LUMINAIRE, UNDERPASS LUMINAIRE OR ORNAMENTAL (PEDESTRIAN) LUMINAIRE IS TURNED ON OR OFF THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING REPRESENTATIVES:
POWER NEW MEXICO - MIKE ADAMS (505-249-5958)
CITY OF ALBUQUERQUE - MARTIN CARRASCO (505-857-8688)

POWER SHALL NEITHER BE TURNED ON OR OFF UNTIL RESPONSIBLE PARTIES FOR EACH LIGHTING SYSTEM HAVE BEEN NOTIFIED.
11. ALL SINGLE CONDUCTOR #10 COPPER WIRES CONNECTING THE MAIN CIRCUIT WIRING TO CORRESPONDING LUMINAIRES SHALL BE CONSIDERED INCIDENTAL TO COST OF POLES.
12. RESPONSIBILITY AND MAINTENANCE OF THE LIGHTING SYSTEMS INSTALLED AS PART OF THIS PROJECT SHALL BE AS FOLLOWS:
 - A. ROADWAY LIGHTING SYSTEM SHALL BE ACCEPTED AND MAINTAINED BY THE CITY OF ALBUQUERQUE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND THE COST OF ENERGIZING ALL LIGHTING SYSTEM UNTIL SUCH TIME THAT THE APPROPRIATE OWNER AND MAINTAINING AGENCY ACCEPT THE RESPONSIBILITY FOR THEIR RESPECTIVE SYSTEMS.
14. THE CONTRACTOR SHALL PAY FOR THE COSTS FOR PNM TO PROVIDE POWER SERVICE. THESE COSTS WILL BE INCIDENTAL.
15. ALL LUMINAIRES SHALL INCLUDE PHOTO ELECTRIC CELLS.
16. THE DESIGN IS BASED UPON TYPE II, 100 WATT, HIGH PRESSURE SODIUM, FULL CUT-OFF, FLAT GLASS LUMINAIRES WITH INDIVIDUAL PHOTOCELLS. THE CONTRACTOR SHALL FURNISH AND INSTALL THIS TYPE OF FIXTURE.
17. THE CONTRACTOR SHALL REMOVE EXISTING SERVICE RISERS, SERVICE POLES, CONTROL CABINETS, AND EXISTING WIRING AS REQUIRED BY PNM AND AS DIRECTED BY THE PROJECT MANAGER.
18. ANY LUMINAIRES DAMAGED DURING REMOVAL AND RESETTING OF LIGHTING STANDARDS SHALL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
19. DESIGN IS BASED ON CITY OF ALBUQUERQUE STREET LIGHTING REQUIREMENTS.
20. PNM WILL ASSIST WITH IDENTIFICATION OF EXISTING CIRCUITS. THE CONTRACTOR SHALL BE REQUIRED TO TIE THE NEW CIRCUITS INTO EXISTING CIRCUITS AS DIRECTED BY PROJECT MANAGER. THE CONTRACTOR SHALL USE APPROPRIATE CAUTION WHEN INTERCEPTING EXISTING CIRCUITS.
21. LIGHTS NEAR EXISTING OVERHEAD TRANSMISSION LINES MUST MAINTAIN AN (10') VERTICAL CLEARANCE AND/OR A (10') HORIZONTAL CLEARANCE FROM THE PHASE CONDUCTOR. PNM WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
22. LIGHTING WILL BE COMPLETED WITH CONSTRUCTION PHASING, REFER TO SECTION 6. NEW LIGHTING SHALL BE OPERATIONAL PRIOR TO OPENING ROADWAY TO TRAFFIC.

1. ANCHOR BOLTS FOR FOUNDATIONS.
2. GROUND RODS FOR FOUNDATIONS.
3. UNIVERSAL SUPPORT BRACKETS FOR SERVICE RISERS.
4. CONCRETE FOUNDATION FOR LIGHTING CONTROL CABINETS INCLUDING EXCAVATION, BACKFILL, CONCRETE, GROUNDING RODS, AND ANCHOR BOLTS.
5. REWIRING OF ANY EXISTING LUMINAIRES TO REMAIN OR BE RESET.
6. SINGLE CONDUCTOR #10 AWG COPPER WIRE CONNECTIONS FROM MAIN CIRCUIT TO LUMINAIRES.
7. REMOVAL OF ANY EXISTING STANDARDS AND LUMINAIRES AND DELIVERY TO THE CITY OF ALBUQUERQUE.
8. SHOP DRAWING PREPARATION AND COORDINATION FOR LIGHTING CONTROL CABINETS.
9. ENERGY COST OF LIGHTING SYSTEM UNTIL ACCEPTANCE BY THE MAINTAINING AGENCY.

NEW	EXISTING	ITEM
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		STREET LIGHTING ON POWER POLE



H = MERCURY
M = METAL HALIDE
S = SODIUM

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	CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION		
	TITLE: PROJECT NAME 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPHIRE STREET AND SAN YGNACIO ROAD		
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.
			Mo./Day/Yr.
City Project No. 7690.91		Zone Map No. L-9 & M-9	Sheet 32 Of 47



NEW	EXISTING	ITEM
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LIGHTING STANDARD WITH
LUMINAIRE AS INDICATED

STREET LIGHTING ON
POWER POLE

LUMINAIRE NUMBER—

STATION AND OFFSET

CIRCUIT NUMBER—

TYPE OF LAMP*

TYPE OF DISTRIBUTION

WATTAGE

ARM LENGTH

MOUNTING HEIGHT

LAMP TYPES

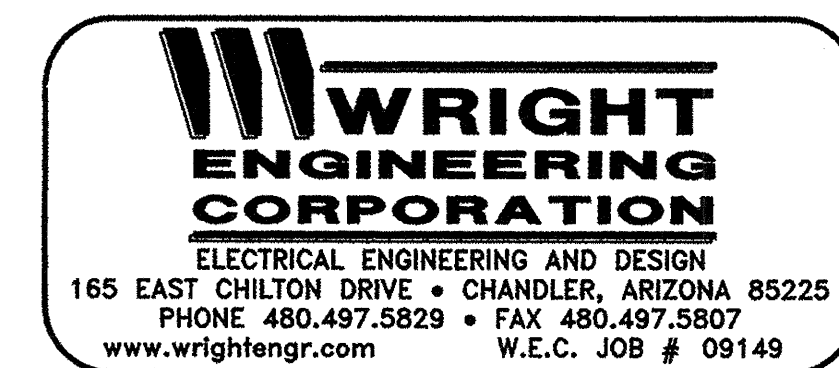
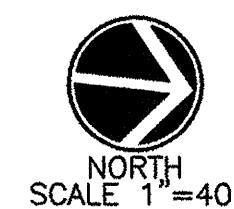
H = MERCURY
M = METAL HALIDE
S = SODIUM

CONSTRUCTION NOTES

- ① INSTALL 100W HPS STREET LIGHT WITH A 30' MOUNTING HEIGHT PER C.O.A. DETAIL 2581, EXCEPT POLE SHALL HAVE A 6" MAST ARM. FOUNDATION & GROUNDING PER C.O.A. DETAIL 2580.
- ② COORDINATE WITH POWER COMPANY TO DE-ENERGIZE SERVICE TO EXISTING STREET LIGHT. REMOVE EXISTING STREET LIGHT, SALVAGE LUMINAIRE & MAST ARM TO CITY OF ALBUQUERQUE. DISPOSE OF POLE PROPERLY.
- ③ INTERCEPT EXISTING CONDUIT RUN & TIE INTO NEW RUN. REMOVE & SALVAGE EXISTING CONDUCTORS BACK TO CLOSEST EXISTING SPLICE ENCLOSURE.
- ④ 2" SCH. 40 PVC CONDUIT WITH (2) #2 CONDUCTORS & (1) #6 BOND. INSTALL NEW CONDUCTORS FROM CLOSEST EXISTING SPLICE ENCLOSURE TO NEW STREET LIGHT.

GENERAL NOTES

1. CONTACT TRAFFIC ENGINEER, MARTIN CARRASCO (857-8684) FOR FINAL ACCEPTANCE.
2. WIRE SPLICING IN CONDUITS SHALL NOT BE ALLOWED.
3. CONTRACTOR SHALL INSTALL ALL CONDUIT & CONDUCTORS, AND SHALL MAKE ALL NECESSARY TERMINATIONS IN STREET LIGHT POLE. FINAL SPLICES & TERMINATIONS IN POWER COMPANY ENCLOSURE SHALL BE MADE BY POWER COMPANY.



	CITY OF ALBUQUERQUE
	MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION
TITLE:	PROJECT NAME 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD

Design Review Committee

APPROVED

SEP 8 1 2011

DESIGN
REVIEW COMMITTEE

City Engineer Approval

APPROVED

SEP 01 2011

CITY ENGINEER

Last Design Update

Mo.

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City Project No.	7690.91
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Zone Map No.
L-9 & M-9

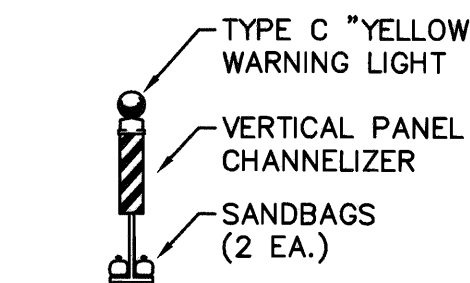
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TEMPORARY TRAFFIC CONTROL GENERAL NOTES

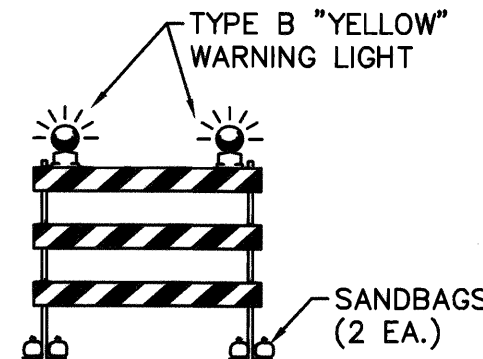
1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT AT LEAST SEVEN WORKING DAYS BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING THAT A PERMIT SHALL BE OBTAINED WITHIN 24 HOURS.
2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SETUP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), OR EQUIVALENT, CERTIFIED WORK SITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORK SITE TRAFFIC SUPERVISOR OR EQUIVALENT.
8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH MUTCD, LATEST EDITION.
9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN AND BICYCLE TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING RESPONSIBLE FOR ALL TEMPORARY STRIPING.
16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESS AND/OR RESIDENCES AT ALL TIMES.
17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON AN ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESS AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.
21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FRO TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
- 1) STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 2) THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
- 3) SECTIONS 19, 1200, AND 2800 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW/CLEAN CONDITION; WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE TEMPORARY TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
26. ADVANCE WARNING SIGNS SHALL BE 36" X 36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI FREE WORK SITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

LEGEND

- WORK AREA
- STREET SIGN
- VERTICAL PANEL
- TYPE III BARRICADE
- TEMPORARY PAVEMENT

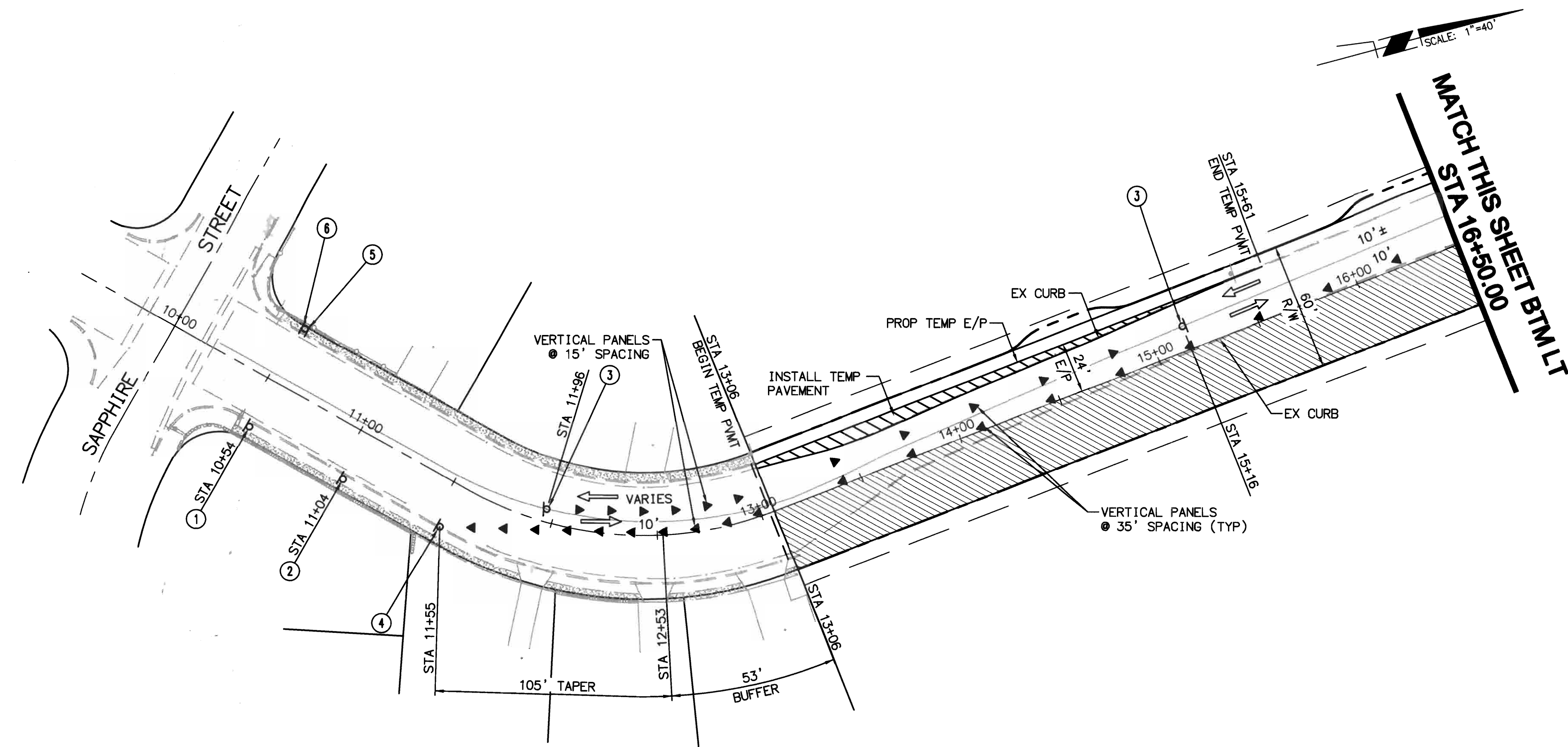


VERTICAL PANEL
NOT TO SCALE

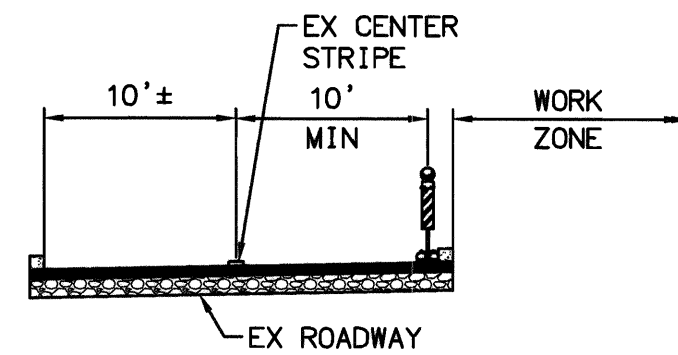


TYPE III BARRICADE
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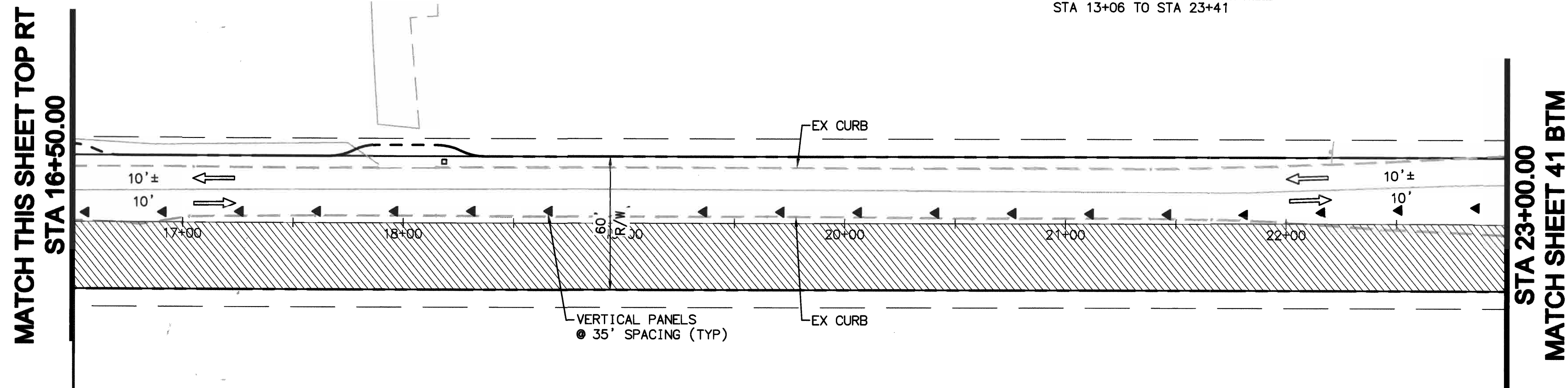
RBF CONSULTING PLANNING ■ DESIGN ■ CONSTRUCTION 16605 NORTH 28th AVENUE, SUITE 100 PHOENIX, ARIZONA 85022-2602 602.467.2200 • FAX 602.467.2201 • WWW.RBF.COM	
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION	
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD TRAFFIC CONTROL PLANS	
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City Project No. 7690.91	Zone Map No. L-9 & M-9
Sheet 34	Of 47



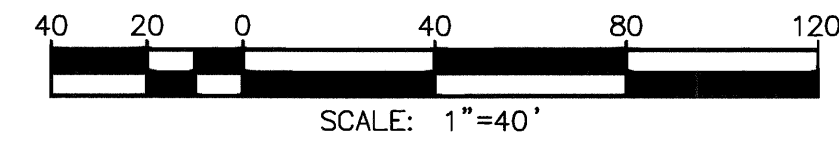
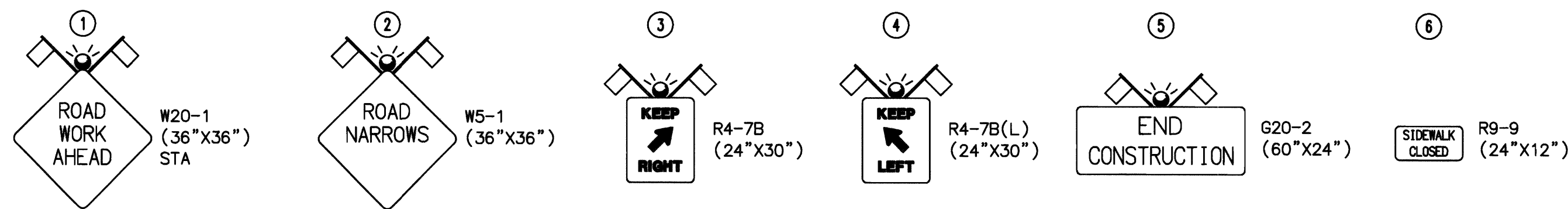
PHASE 1
86TH STREET



NB 86TH STREET SECTION
STA 13+06 TO STA 23+41



PHASE 1
86TH STREET



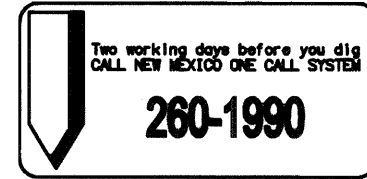
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RECORDED BY	DATE
NO.	

BENCH MARKS	
REFER TO COVER FOR BENCH MARKS	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	BY

ENGINEER'S SEAL	
	12/6/10

REVISIONS	
NO.	DATE
DESIGNED BY: RER	DATE: 12/06/10
DRAWN BY: DLP	DATE: 12/06/10
CHECKED BY: DJP	DATE: 12/06/10

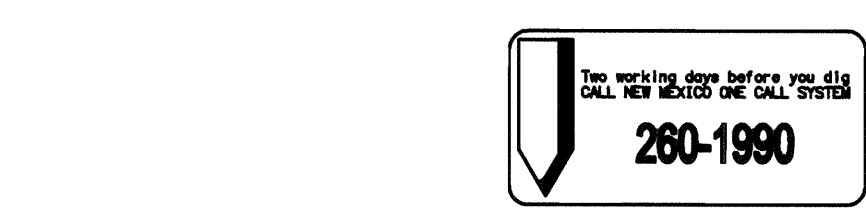
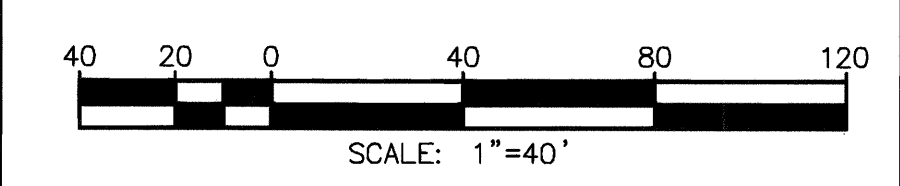
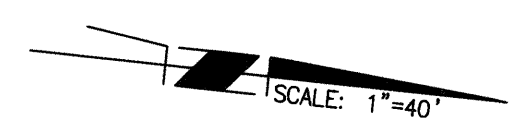
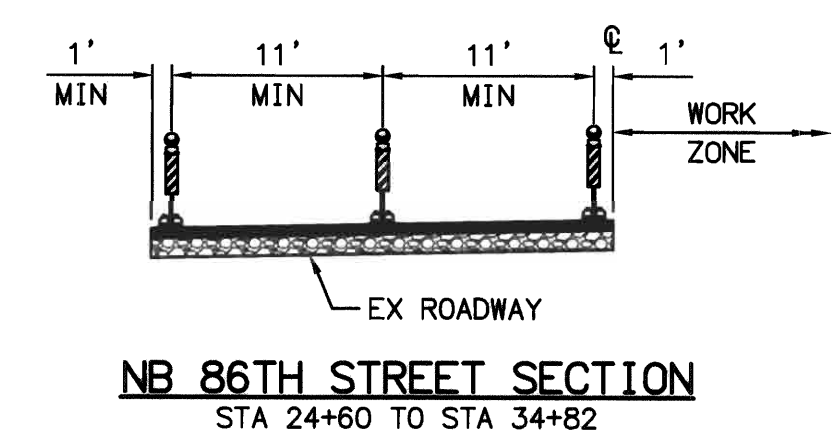
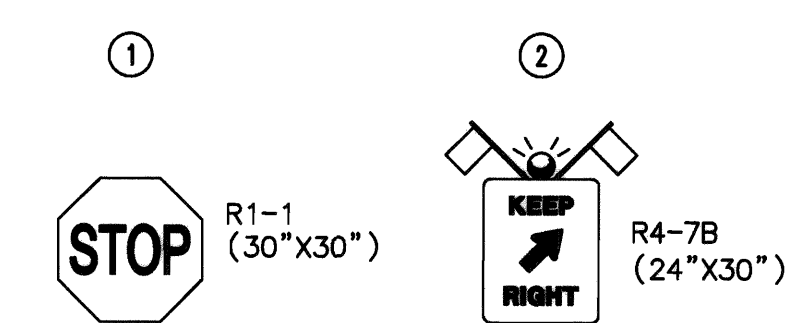
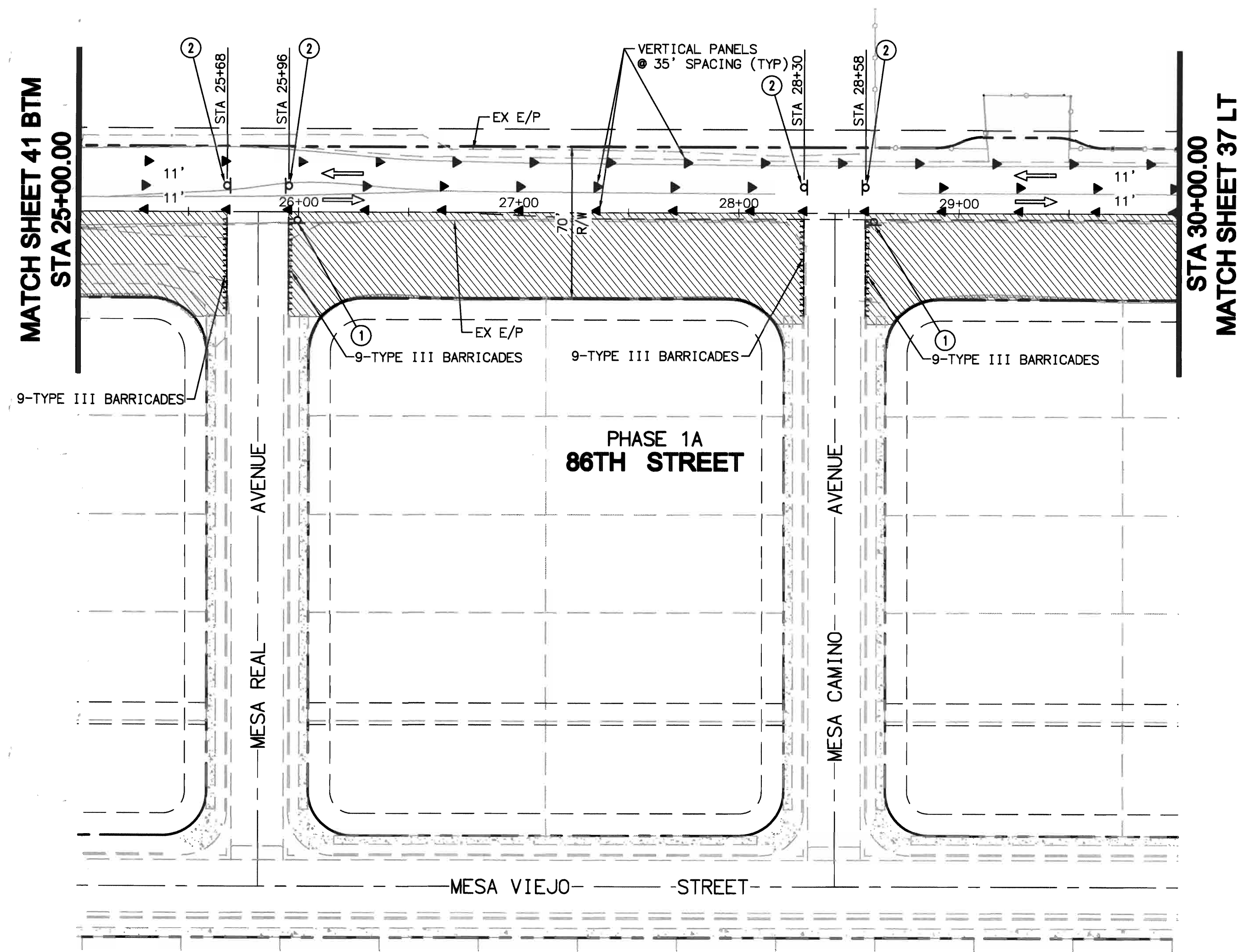


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TRANSPORTATION DEVELOPMENT DIVISION
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
TEMPORARY TRAFFIC CONTROL PLANS

Design Review Committee City Engineer Approval
For Information only

City Project No. 7690.91 Zone Map No. L-9 & M-9 Sheet 35 Of 47

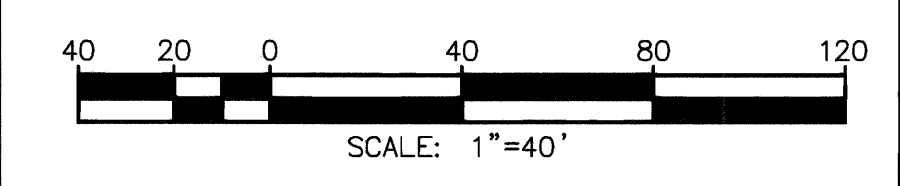
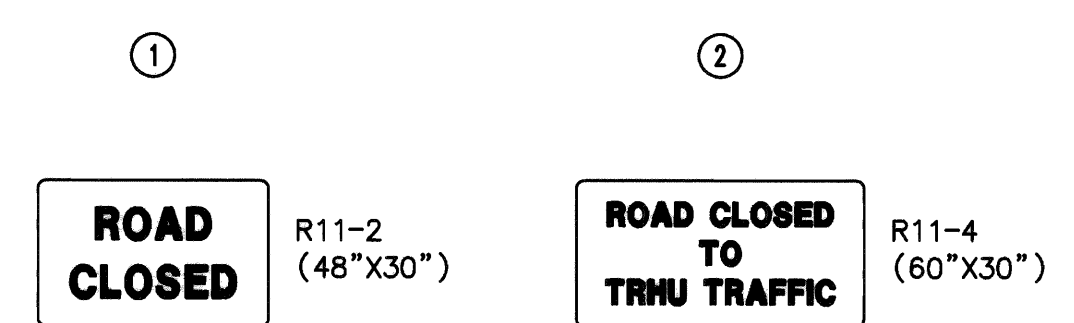
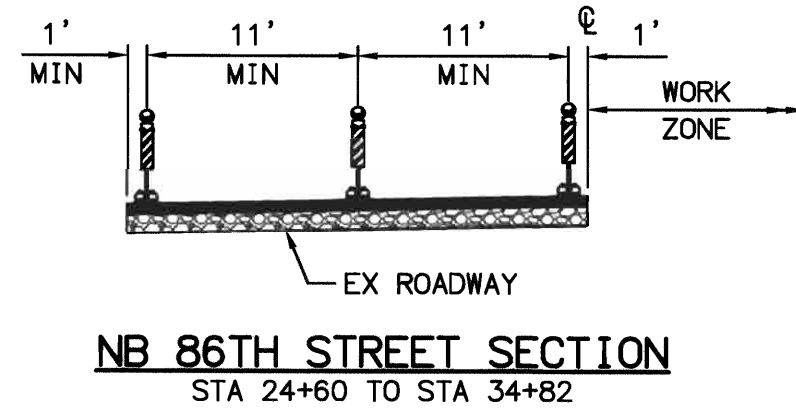
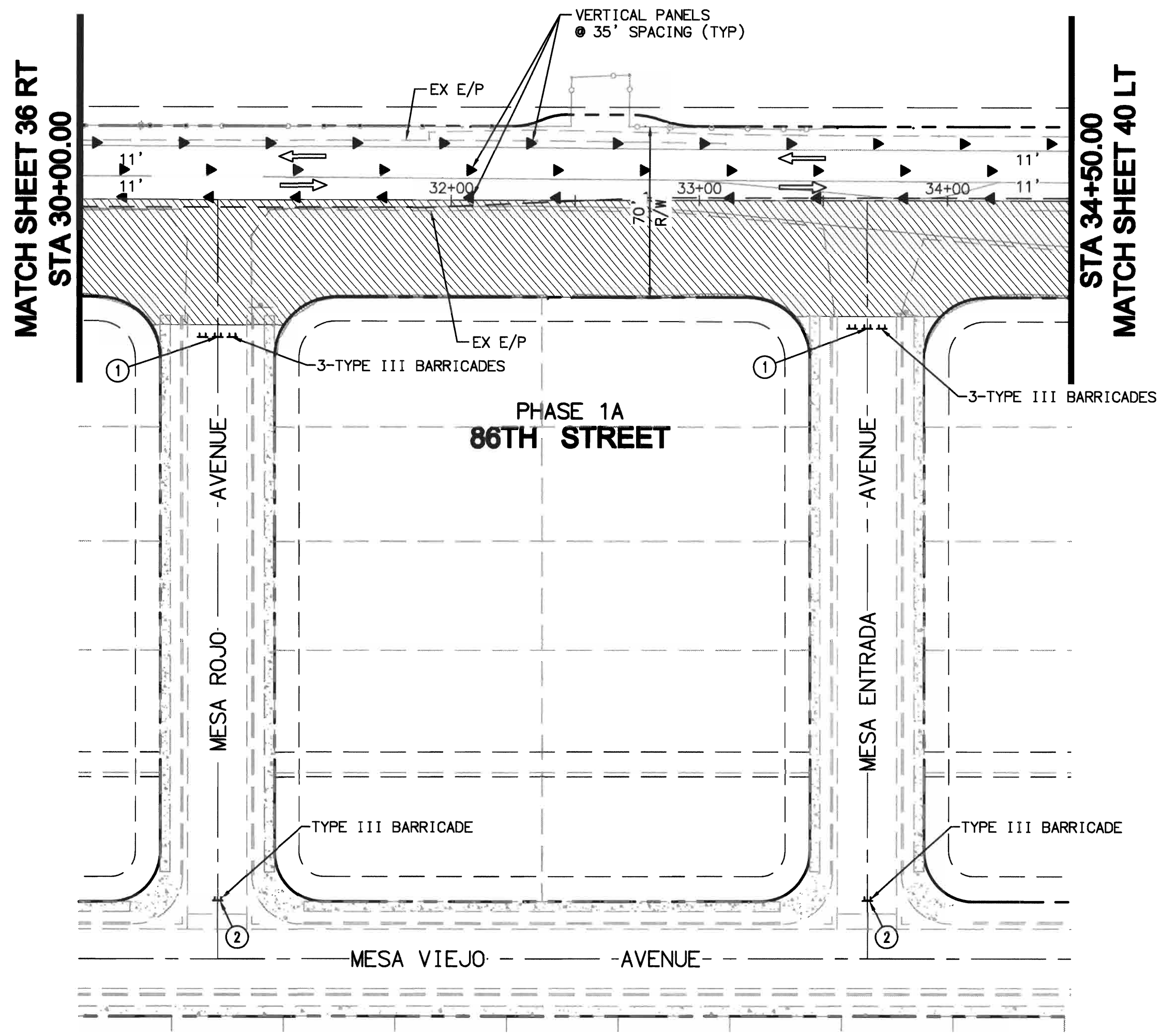


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**TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
 BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
 TEMPORARY TRAFFIC CONTROL PLANS**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 7690.91	Zone Map No. L-9 & M-9	Sheet 36	Of 47

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	REFER TO COVER FOR BENCH MARKS	CONTRACTOR	DATE
				WORKS BY	DATE
				INSPECTOR	DATE
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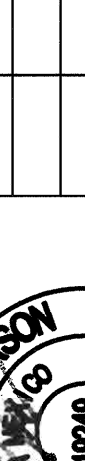
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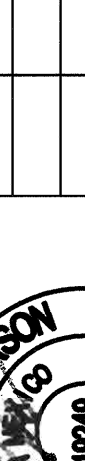
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE:
86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
TEMPORARY TRAFFIC CONTROL PLANS

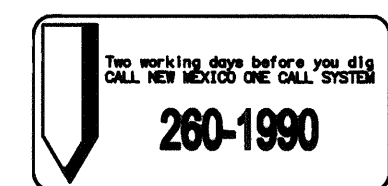
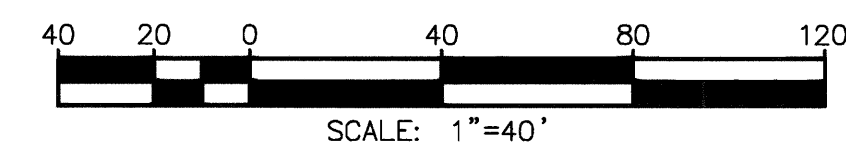
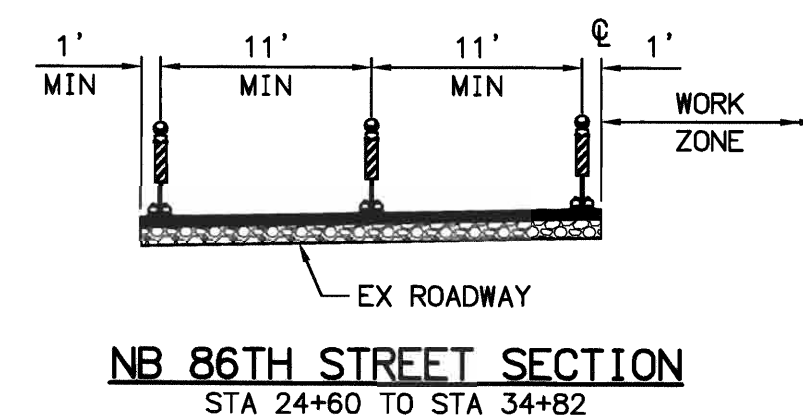
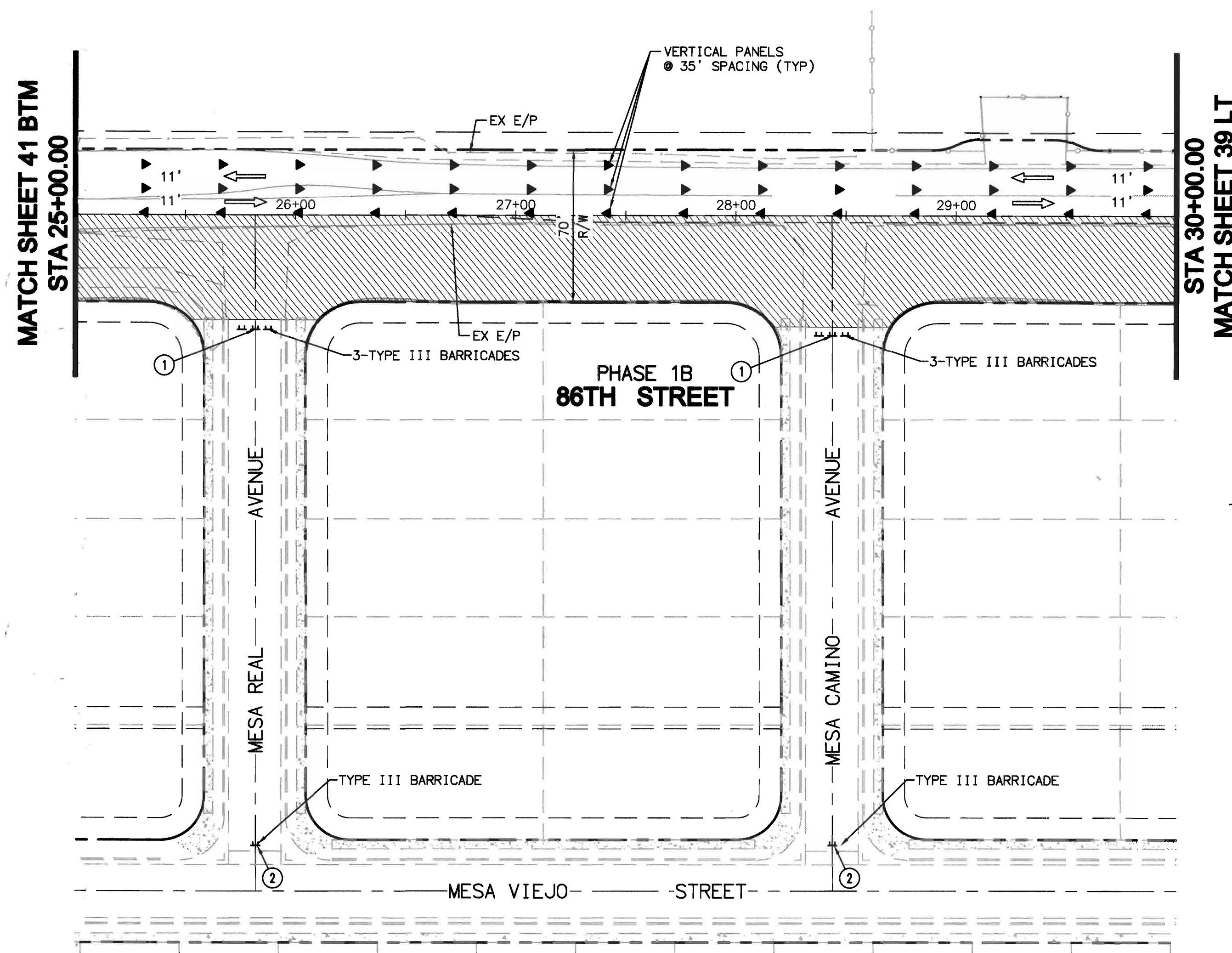
Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.

City Project No. **7690.91** Zone Map No. **L-9 & M-9** Sheet **37** Of **47**

ENGINEER'S SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
 12/6/10			NO.	BY	DATE	REFER TO COVER FOR BENCH MARKS	CONTRACTOR	DATE
							INSPECTOR	DATE
							ACCEPTANCE BY	DATE
							VERIFICATION BY	DATE
							CORRECTED BY	DATE
							MICRO-FILM INFORMATION	
	DESIGNED BY:	RER					RECORDED BY	DATE
	DRAWN BY:	DLP						
	CHECKED BY:	DLP					NO.	


12/6/10

REVISIONS	BY	DATE
DESIGNED BY: RER		DATE: 12/06/10
DRAWN BY: DLP		DATE: 12/06/10
CHECKED BY: DLP		DATE: 12/06/10



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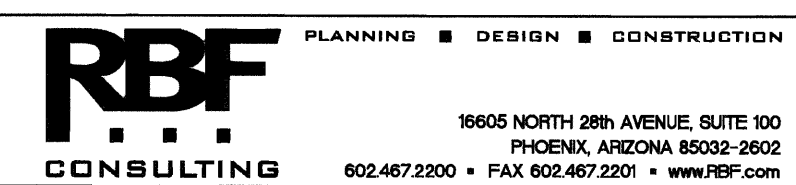
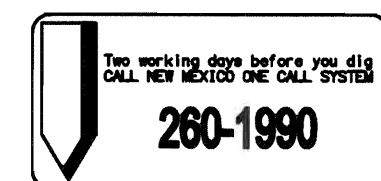
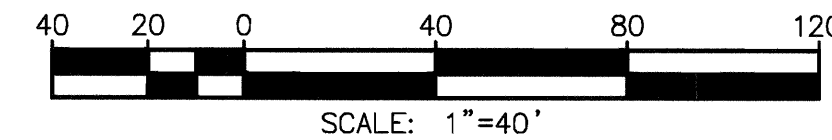
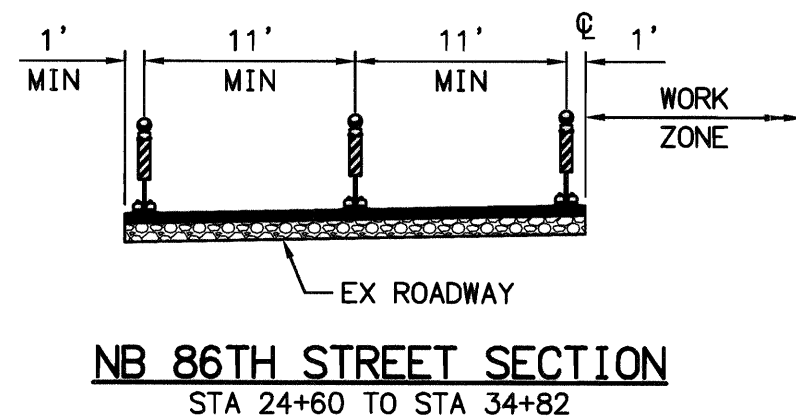
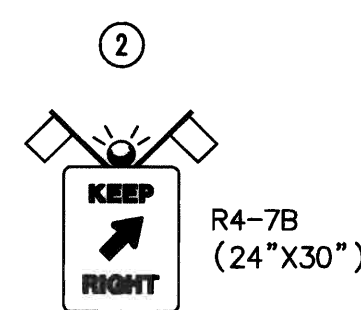
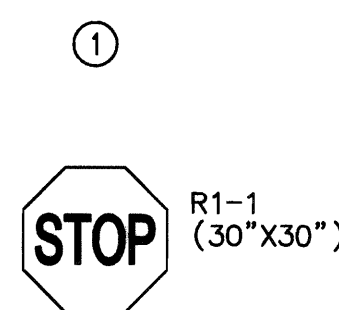
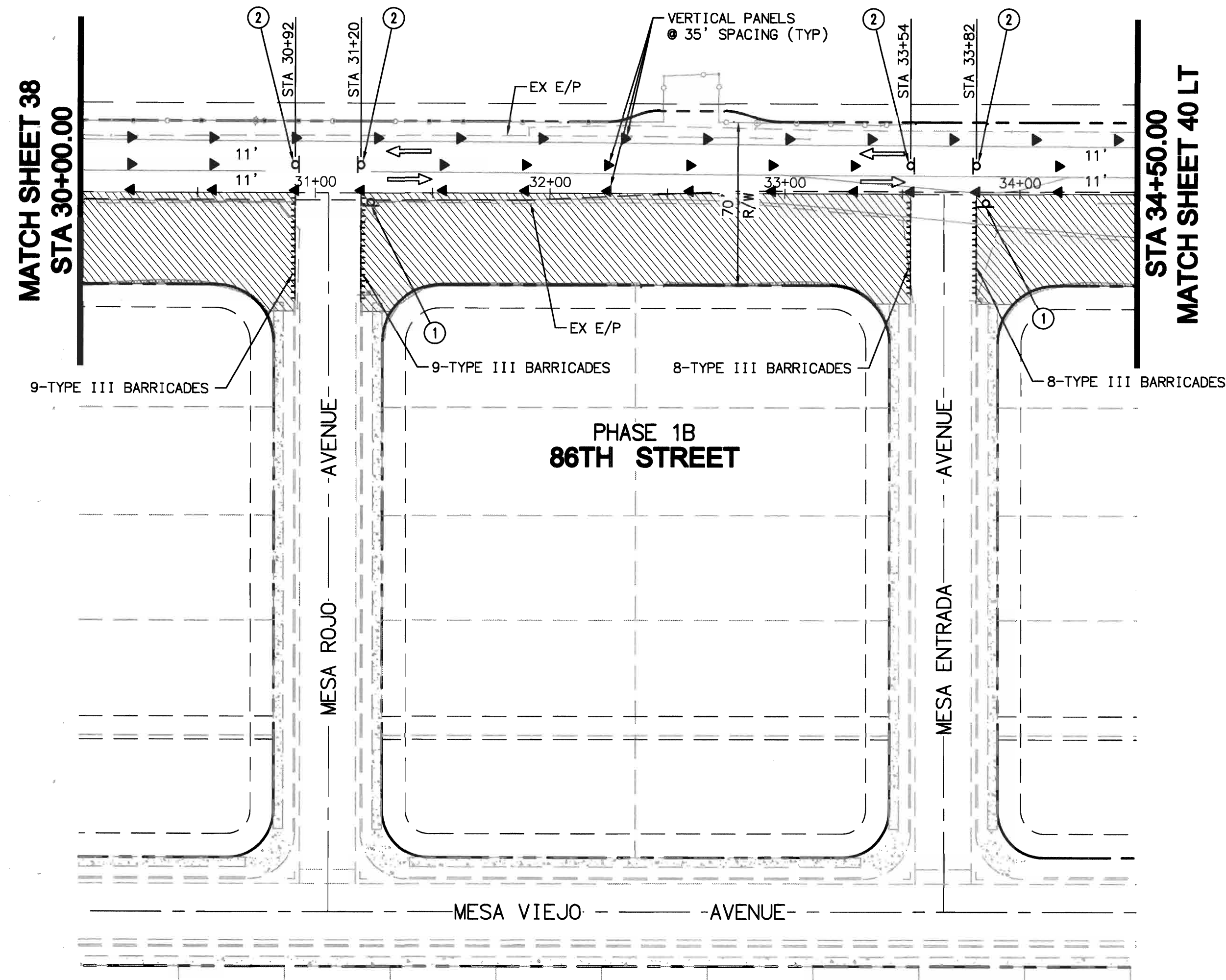
CITY OF ALBUQUERQUE
 MUNICIPAL DEVELOPMENT DEPARTMENT
 TRANSPORTATION DEVELOPMENT DIVISION
**TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
 BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
 TEMPORARY TRAFFIC CONTROL PLANS**

Design Review Committee: *For Information Only*
 City Engineer Approval: *[Signature]*

City Project No. 7690.91 Zone Map No. L-9 & M-9 Sheet 38 Of 47

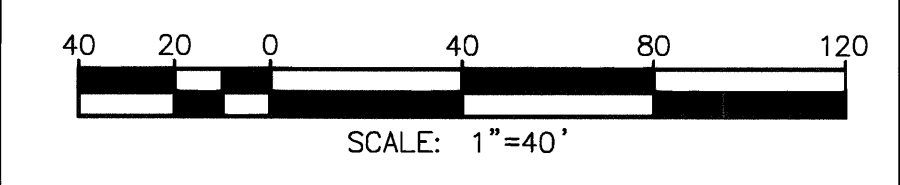
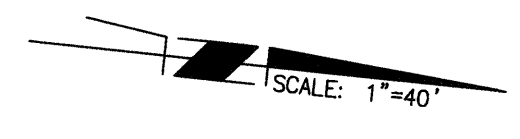
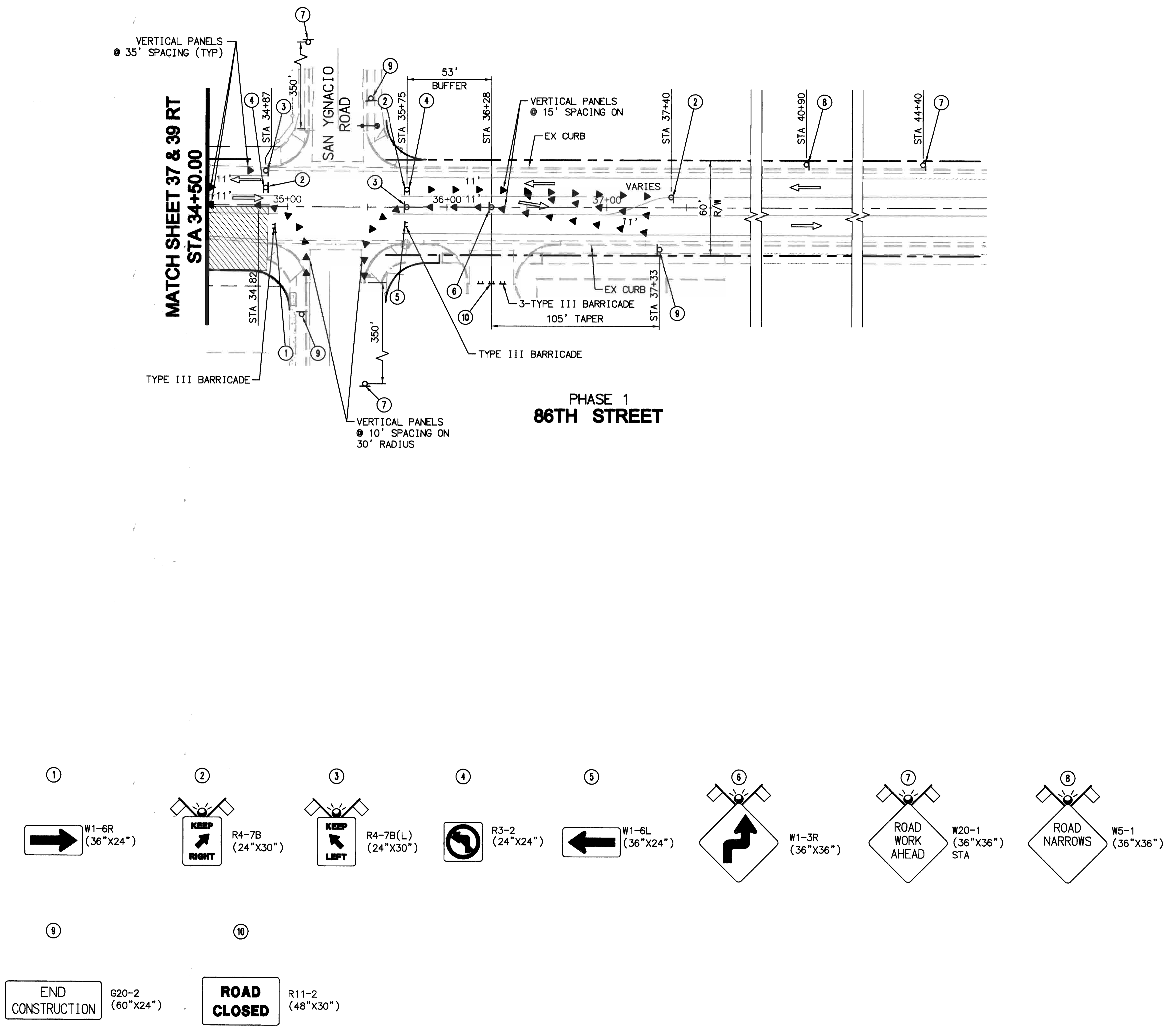
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REVISIONS		DESIGNED BY: RER		DATE: 12/06/10	
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				DLP	
				DJP	



CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT TRANSPORTATION DEVELOPMENT DIVISION	
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD TEMPORARY TRAFFIC CONTROL PLANS	
Design Review Committee 	City Engineer Approval
City Project No. 7690.91	Zone Map No. L-9 & M-9
Sheet 39	Of 47

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	REFER TO COVER FOR BENCH MARKS	CONTRACTOR	DATE
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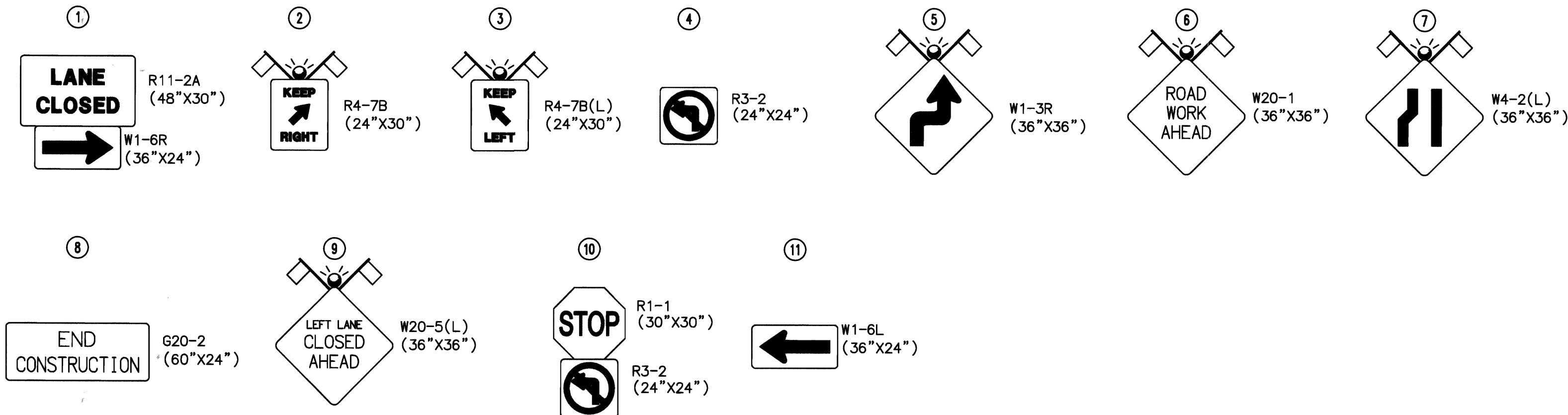
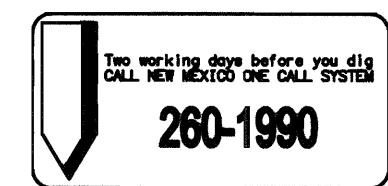
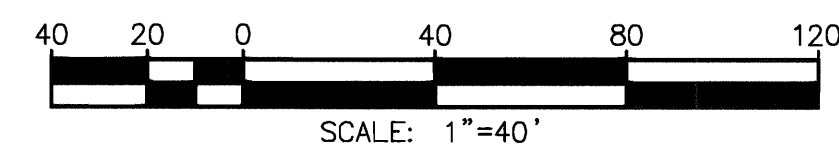
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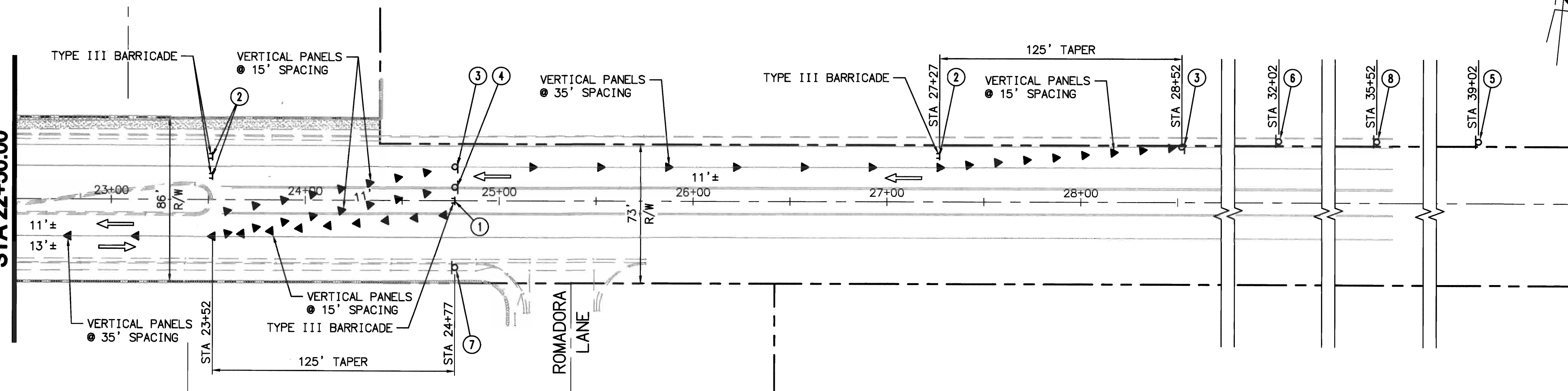
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BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
TEMPORARY TRAFFIC CONTROL PLANS**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

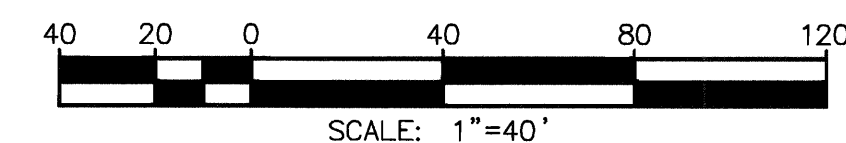
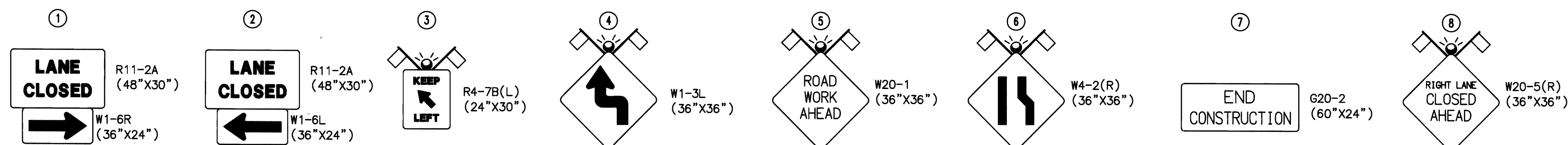
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			DRAWINGS	DRAWINGS	DATE
			CORRECTED BY	CORRECTED BY	DATE
			MICRO-FILM INFORMATION		
			RECORDED BY	RECORDED BY	DATE
			NO.	NO.	NO.

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MATCH SHEET 41 RT
STA 22+50.00



PHASE 1
SAGE ROAD



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TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
TEMPORARY TRAFFIC CONTROL PLANS

Design Review Committee City Engineer Approval

For Information only

City Project No. 7690.91

Zone Map No. L-9 & M-9

Sheet 42 Of 47

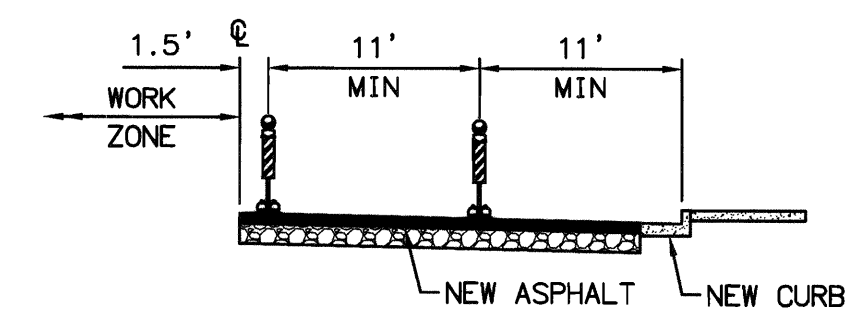
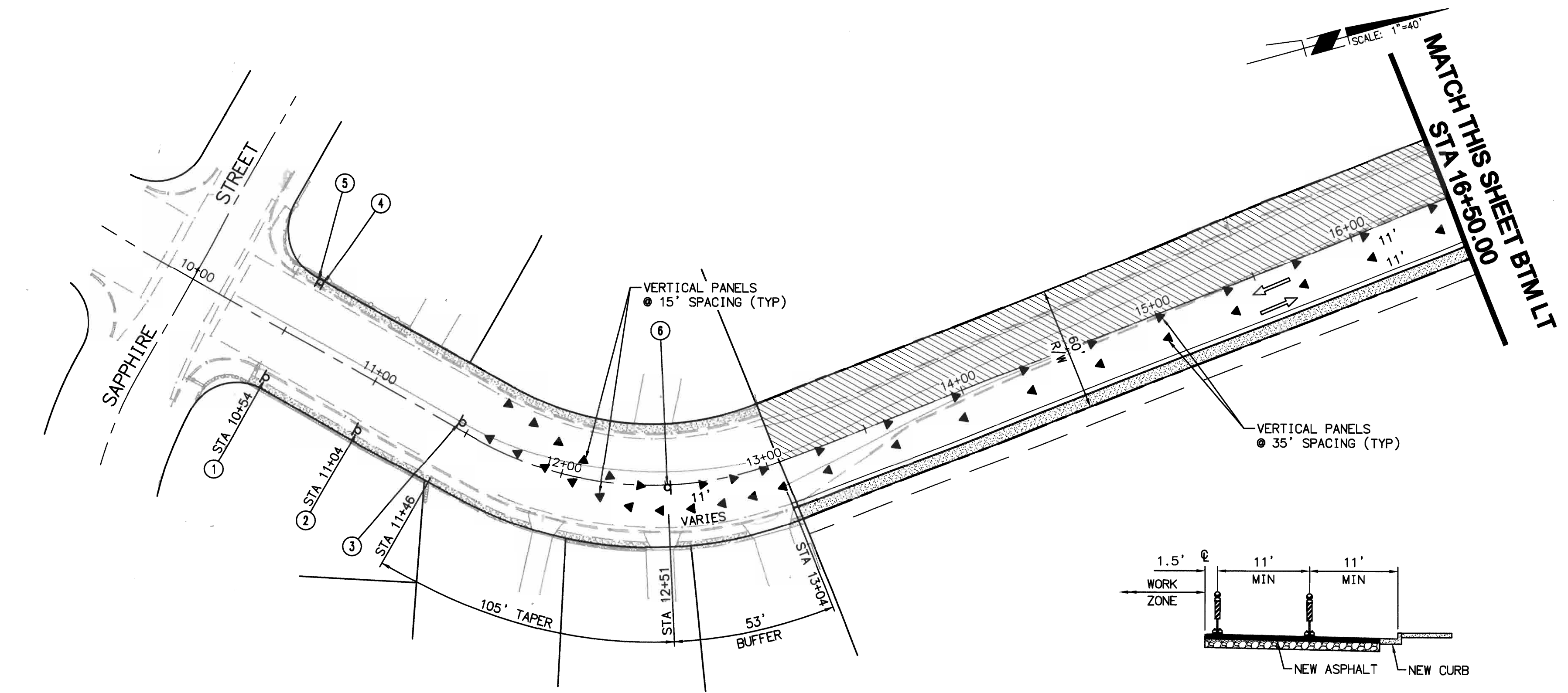
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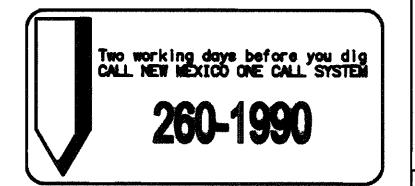
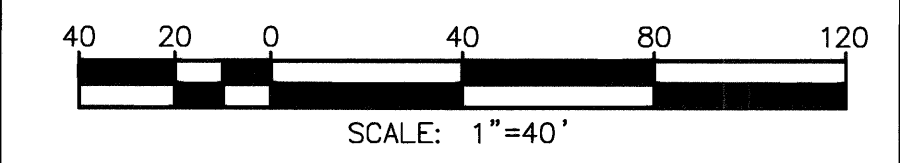
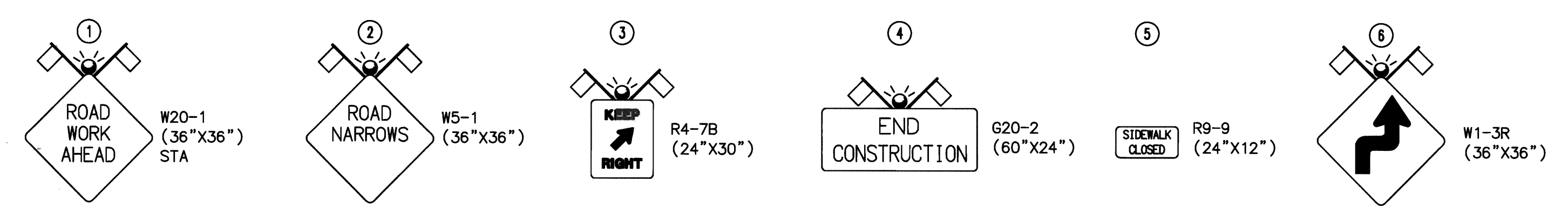
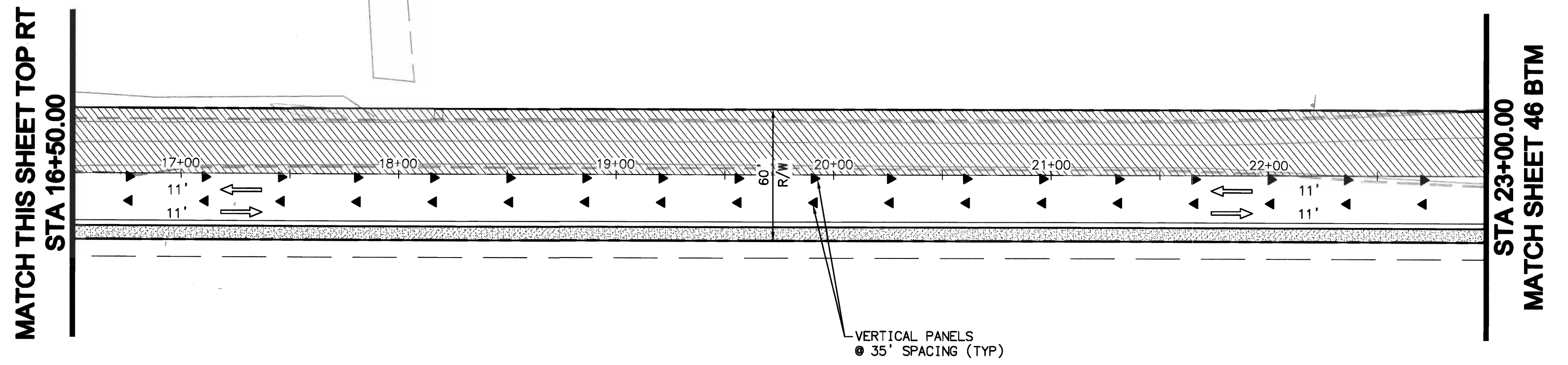
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NO.	BY

ENGINEER'S SEAL	
	12/6/10

REVISIONS	
NO.	DATE
DESIGNED BY: RER	DATE: 12/06/10
DRAWN BY: DLP	DATE: 12/06/10
CHECKED BY: DJP	DATE: 12/06/10



NB 86TH STREET SECTION
STA 13+04 TO STA 23+41



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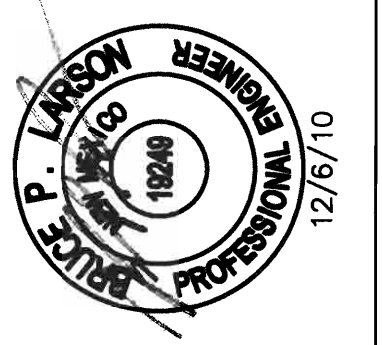
CITY OF ALBUQUERQUE
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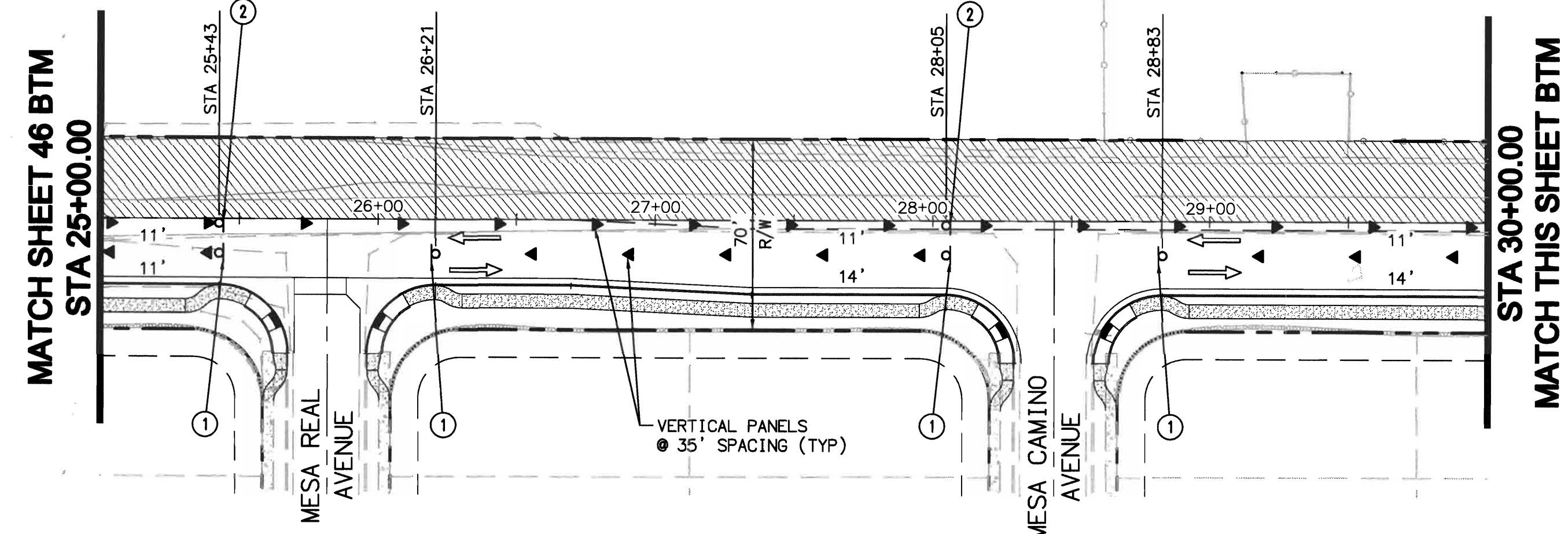
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPHIRE STREET AND SAN YGNACIO ROAD
TEMPORARY TRAFFIC CONTROL PLANS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
For Information Only			
Last Design Update			

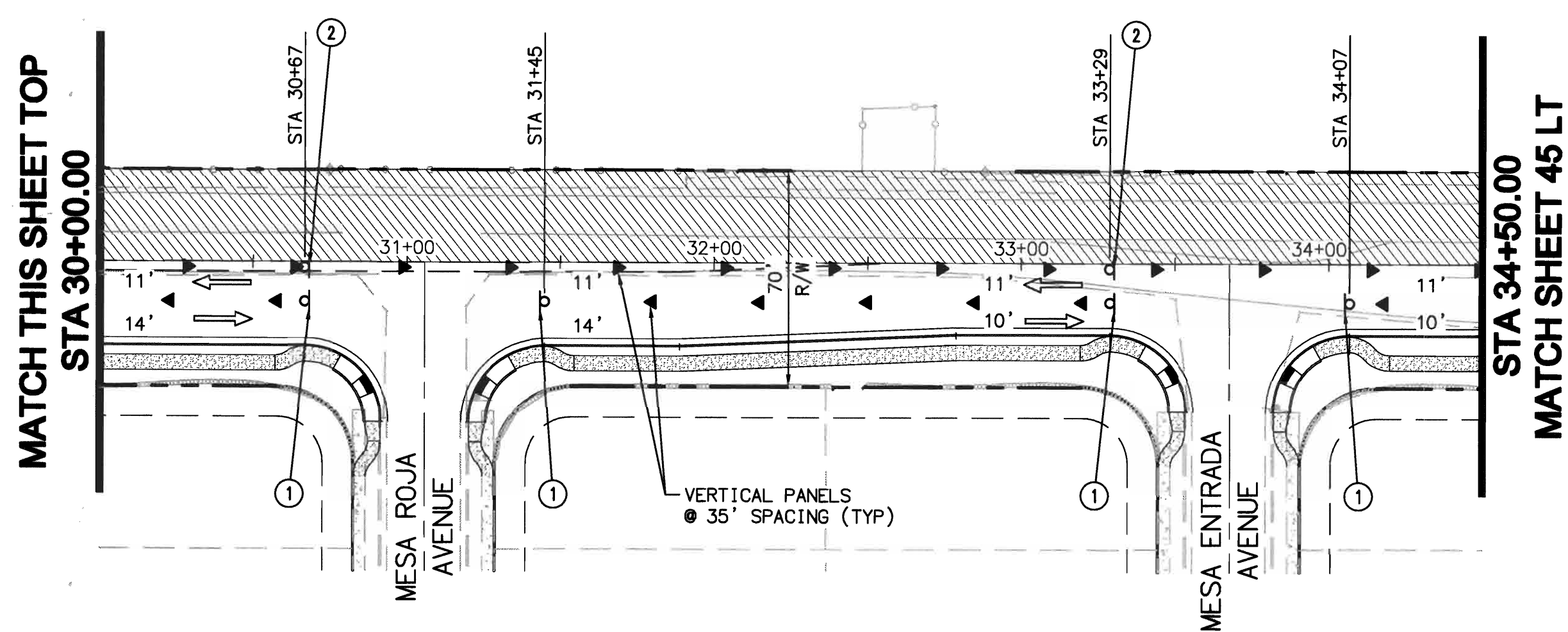
City Project No. 7690.91 Zone Map No. L-9 & M-9 Sheet 43 Of 47

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGNED BY: RER		DRAWN BY: DLP		CHECKED BY: DJP	
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DATE															
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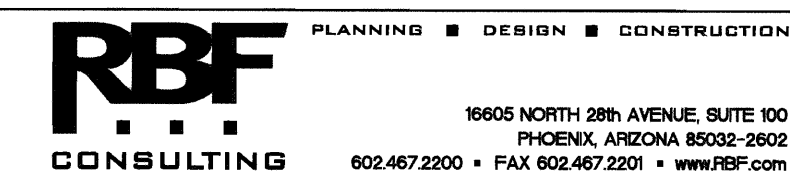
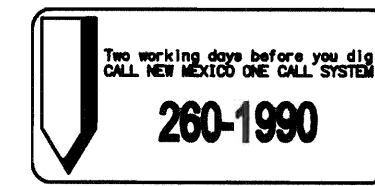
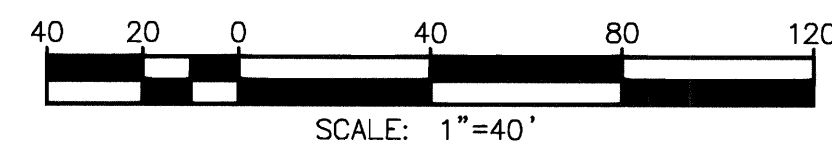
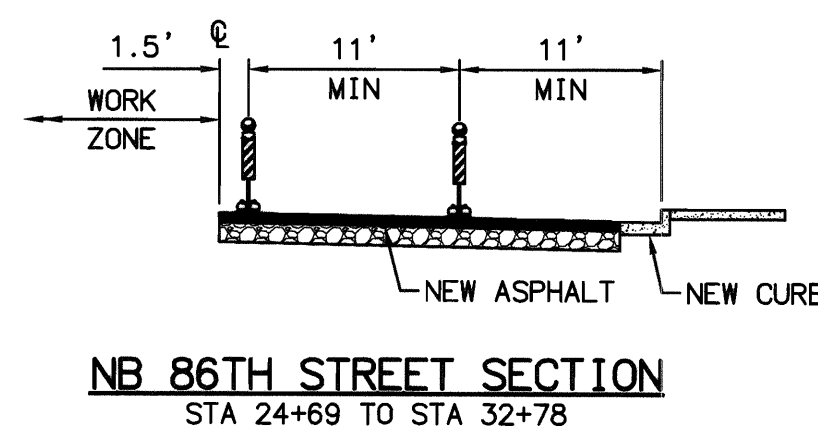
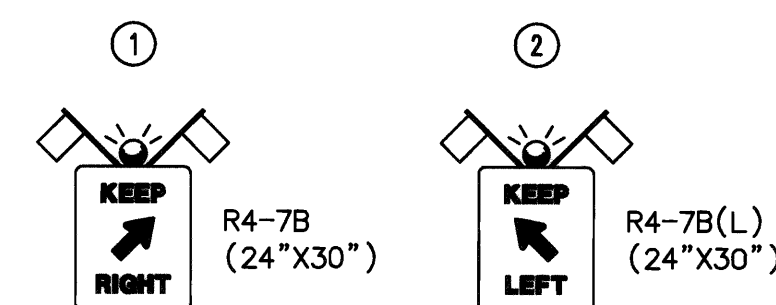




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86TH STREET



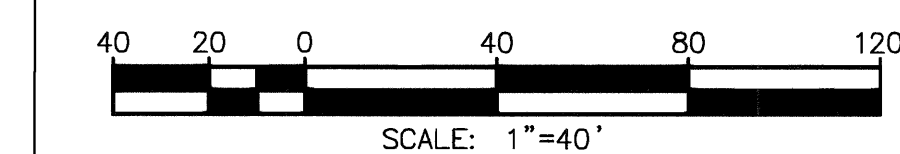
PHASE 2
86TH STREET



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION
TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
TEMPORARY TRAFFIC CONTROL PLANS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
		Least Design Update	
City Project No. 7690.91	Zone Map No. L-9 & M-9	Sheet 44	Of 47

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	REFER TO COVER FOR BENCH MARKS	CONTRACTOR	DATE
				WORK BY	DATE
				INSPECTION BY	DATE
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<i>AS BUILT INFORMATION</i>	
CONTRACTOR	DATE
WORK	DATE
INSPECTOR'S	DATE
ACCEPTANCE BY	DATE
INTERPRETATION BY	DATE
DRAWINGS	DATE
CORRECTED BY	DATE
<i>MICRO-FILM INFORMATION</i>	
RECORDED BY	DATE
NO.	

<i>BENCH MARKS</i>
REFER TO COVER FOR BENCH MARKS

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ENGINEER'S SEAL

P. LARSEN
NEW MEXICO
18240
PROFESSIONAL ENGINEER
12/6/10

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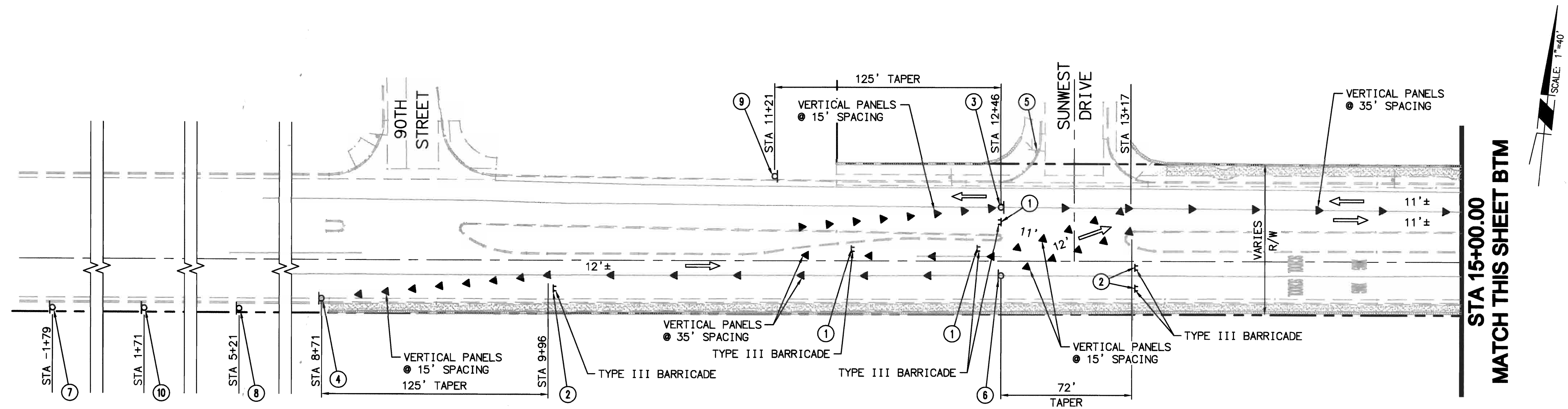
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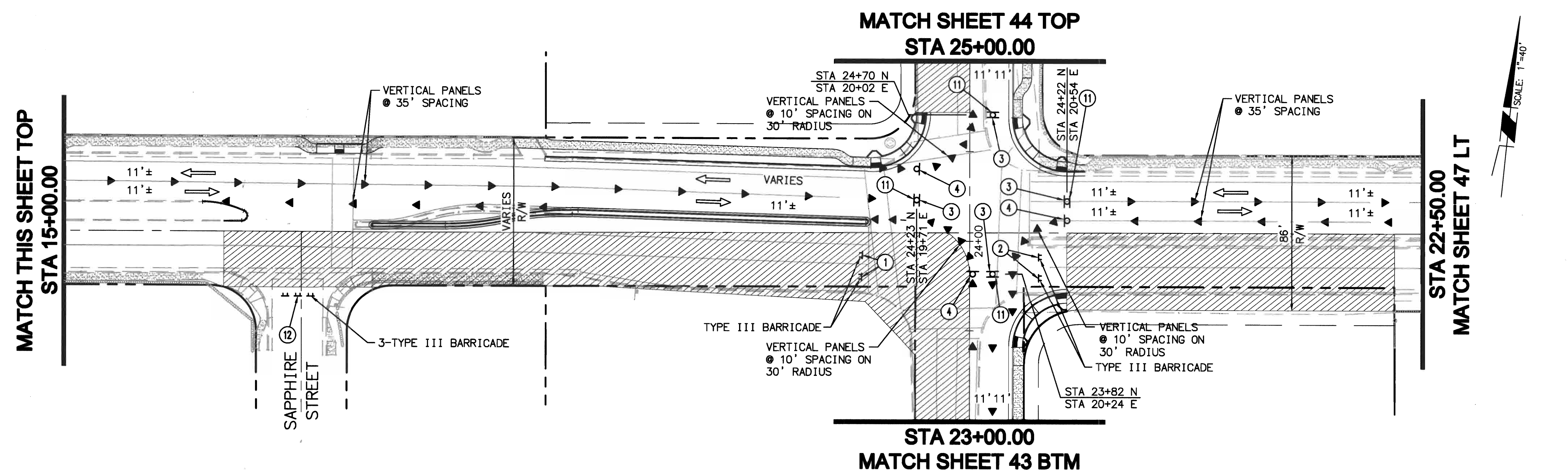
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Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

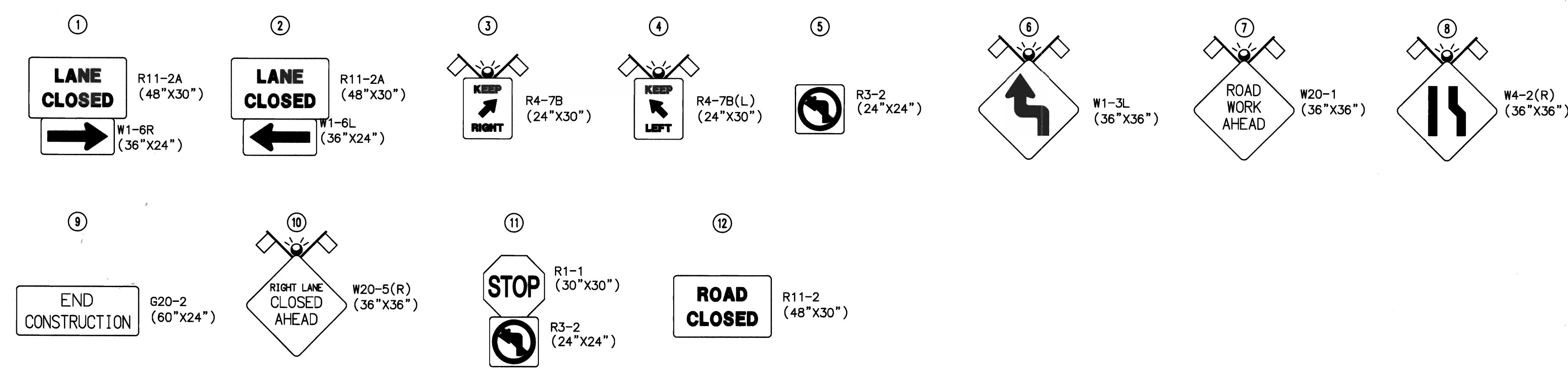
City Project No.	Zone Map No.	Sheet	Of
7690.91	L-9 & M-9	45	47



PHASE 2
SAGE ROAD



PHASE 2
SAGE ROAD



AS BUILT INFORMATION

CONTRACTOR	DATE
WORK	DATE
INSPECTOR'S	DATE
ACCEPTANCE BY	DATE
DRAWINGS	DATE
CONDUCTED BY	DATE
RECORDED BY	DATE

SURVEY INFORMATION

FIELD NOTES	DATE
NO.	BY

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS

DESIGNED BY: RER DATE: 12/06/10

DRAWN BY: DLP DATE: 12/06/10

CHECKED BY: DJP DATE: 12/06/10

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TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPHIRE STREET AND SAN YGNACIO ROAD
TEMPORARY TRAFFIC CONTROL PLANS

Design Review Committee

For Info

City Engineer Approval

For Info

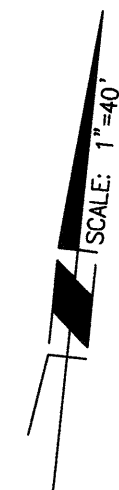
Mo./Day/Yr.

Mo./Day/Yr.

City Project No. 7690.91

Zone Map No. L-9 & M-9

Sheet 46 Of 47

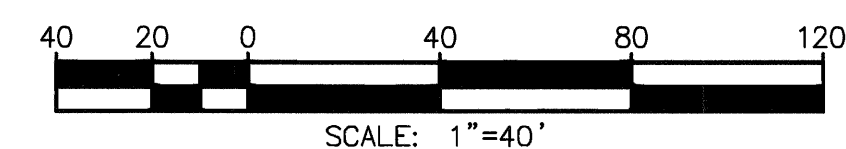
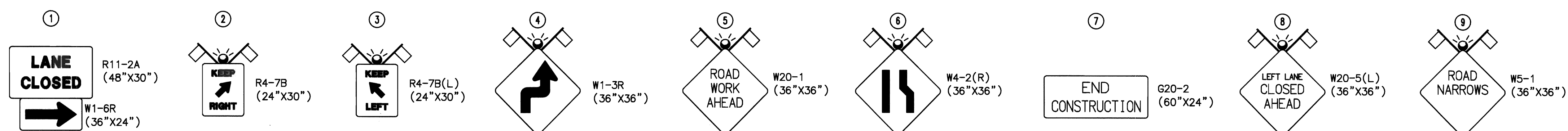


The diagram is a plan view of a road construction project. It shows a road with stationing from STA 10+55 to STA 22+65. Key features include:

- SAPPHIRE STREET**: A street crossing the road at STA 10+55.
- Vertical Panels**: Indicated by arrows and labels:
 - Vertical Panels @ 15' Spacing (multiple locations)
 - Vertical Panels @ 35' Spacing (near STA 14+40)
- Type III Barricade**: Located near STA 14+40.
- 125' Taper**: Indicated at the beginning and end of the construction zone.
- 63' Buffer**: Indicated near STA 12+47.
- Stationing**: STA 10+55, STA 11+05, STA 11+22, STA 12+47, STA 13+10, STA 14+40, STA 15+65, STA 16+15, STA 22+65.
- Numbered Callouts**: 1, 2, 3, 5, 7, 9.



Two working days before you dig
CALL NEW MEXICO ONE CALL SYSTEM
260-1990

[illegible]

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CONSULTING
16605 NORTH 28th AVENUE, SUITE 100
PHOENIX, ARIZONA 85032-2602
602.467.2200 ■ FAX 602.467.2201 ■ www.RBF.com



CITY OF ALBUQUERQUE

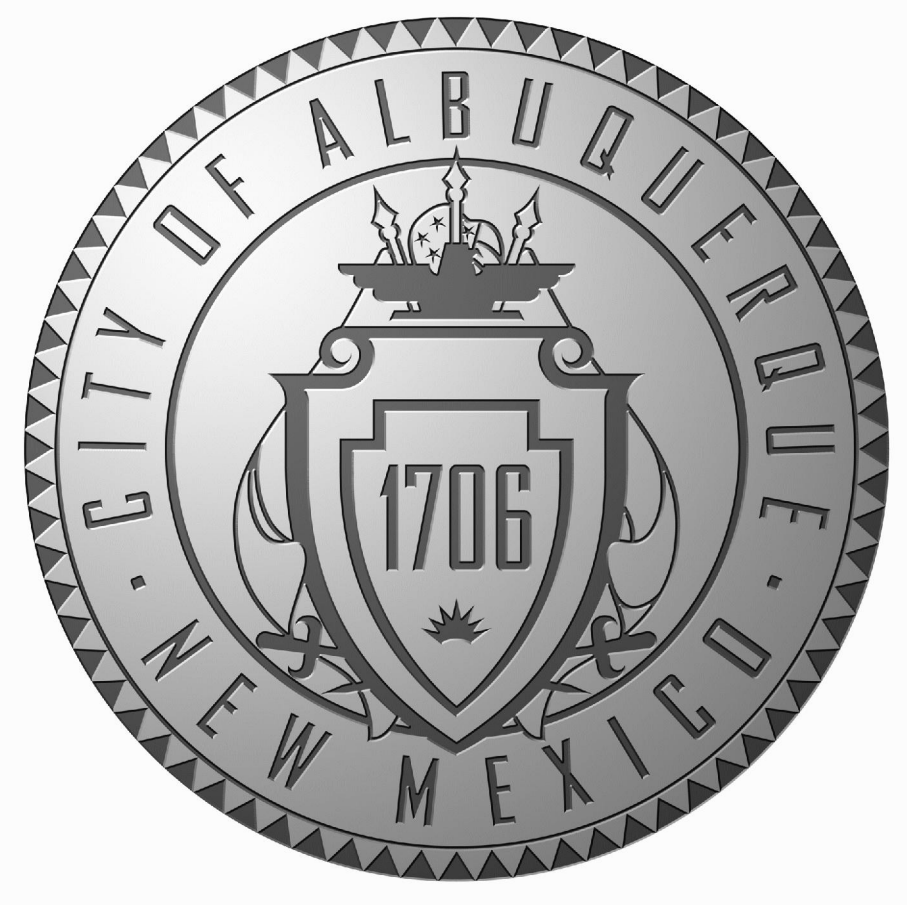
MUNICIPAL DEVELOPMENT DEPARTMENT

TRANSPORTATION DEVELOPMENT DIVISION

TITLE: 86TH STREET / SAGE ROAD IMPROVEMENTS
BETWEEN SAPPHIRE STREET AND SAN YGNACIO ROAD
TEMPORARY TRAFFIC CONTROL PLANS

Design Review Committee	City Engineer Approval
	
<i>For Information Only</i>	

City Project No.	Zone Map No.	Sheet	Of
7690.91	L-9 & M-9	47	47



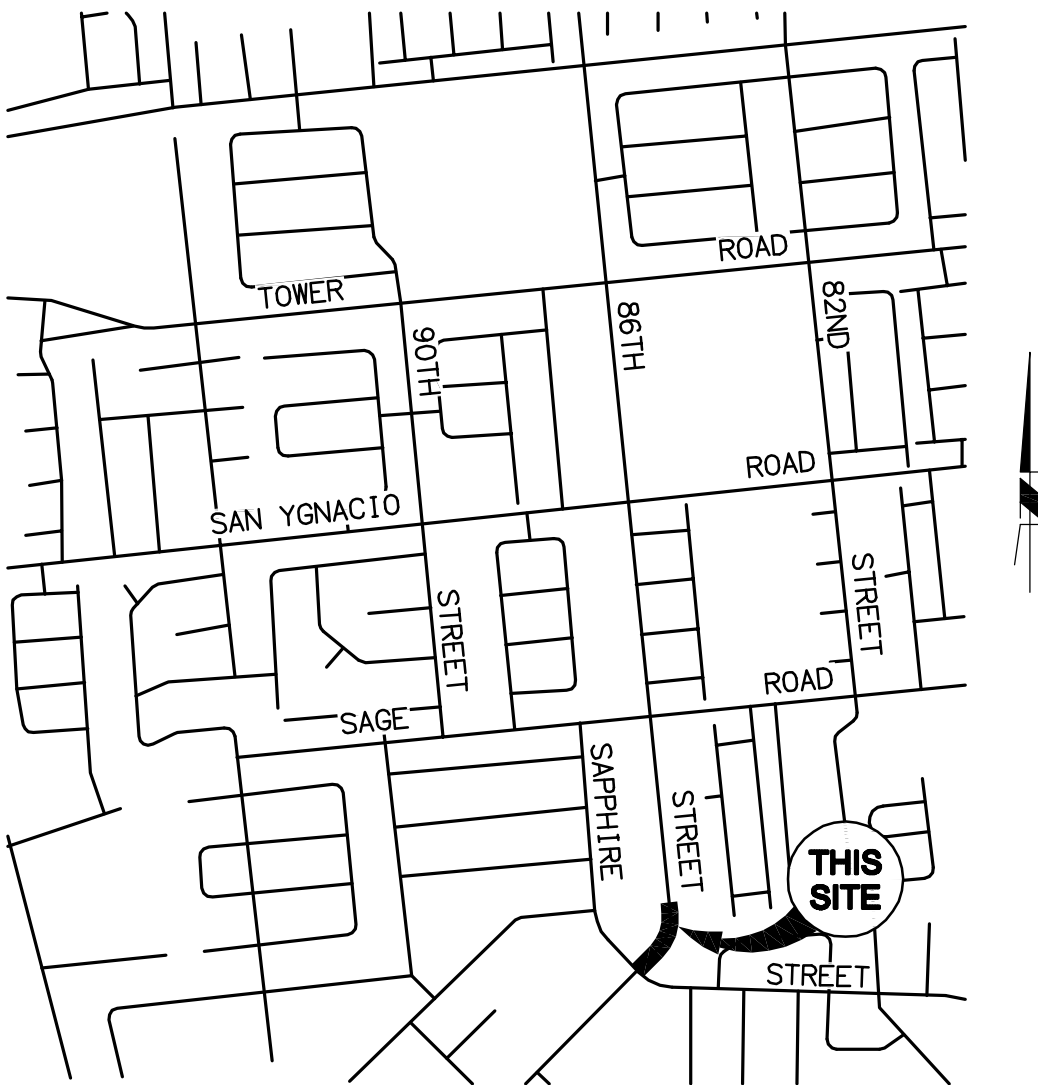
COA PROJECT #7690.91

PCN: C6G17
PN: SP-GA-5371(200)

CITY OF ALBUQUERQUE
CONSTRUCTION PLANS
FOR

86TH STREET AND SAPPHIRE STREET
MEDIAN PLANS

APRIL, 2012



VICINITY MAP
NTS
ZONE MAPS L-9 & M-9

RECORD DRAWING INFO	
CITY INSPECTOR	JOE BACA
CITY PROJECT MANAGER	JUAN CARLOS SAMUEL
CONTRACTOR	MOUNTAIN STATES CONSTRUCTORS
SURVEYOR	CARTESIAN SURVEYOR
CITY URBAN PROGRAM SUPERVISOR	ADAM BERGSTRASSER
LETTER OF ACCEPTANCE DATE	6/14/2012

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	OFFICE PHONE: 1-800-568-8405 helpdesk@redflex.com	REDFLEX

INDEX OF DRAWINGS

GENERAL

- 1 COVER SHEET
2 NOTES & DETAILS

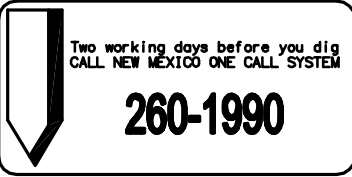
ROADWAY

- 3 PLAN & PROFILE 86TH ST. STA 10+00.00 TO STA 13+17

BENCH MARKS

COA SURVEY CONTROL DISK STAMPED "24_L9 2002"
LOCATED 35' WEST OF @ OF 86TH STREET S.W. AND
36.4' NORTH OF @ OF SAGE ROAD S.W.
GEOGRAPHIC POSITION (NAD 1983)
NM STATE PLANE GRID COORDINATES (CENTRAL ZONE)
X=1,496,841.495 Y=1,476,602.813
GROUND TO GRID FACTOR = 0.999683755
DELTA ALPHA = -00°16'32.09"
ELEVATION = 5096.97 (NAVD 1988)

COA SURVEY CONTROL DISK STAMPED "23_L9 2002"
LOCATED 24.6' EAST OF @ OF 86TH STREET S.W.
AND 43.6' NORTH OF @ SAN YGNACIO ROAD S.W.
GEOGRAPHIC POSITION (NAD 1983)
NM STATE PLANE GRID COORDINATES (CENTRAL ZONE)
X=1,496,792.355 Y=1,477,722.705
GROUND TO GRID FACTOR = 0.999683304
DELTA ALPHA = -00°16'32.54"
ELEVATION = 5106.482 (NAVD 1988)



APPROVED FOR RECORD DRAWING: _____
ABCWUA ENGINEER

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RECORD DRAWING

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 OF ALBUQUERQUE 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, HAVE THE CITY SURVEY SECTION 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, 1986 EDITION THROUGH UPDATE NO. 7 INCLUDING ALL SUBSEQUENT UPDATES AND AMENDMENTS.
4. ALL NEW MANHOLES SHALL BE TYPE "E" PER CITY OF ALBUQUERQUE STANDARD DRAWINGS 2102 UNLESS OTHERWISE NOTED ON THE PLANS. ALL SANITARY SEWER MANHOLE ADJUSTMENTS TO GRADE SHALL INCLUDE A NEW CONCRETE COLLAR, ELECTRONIC MARKING DEVICE (SPHERE EMD), AND A NEW RING AND COVER TO COMPLY WITH CURRENT STANDARD DRAWINGS. PAYMENT SHALL BE PER ADJUSTMENT AT THE CONTRACT UNIT PRICE.
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 IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH. ALL SANITARY SEWER MANHOLE AND WATER VALVE CAN ADJUSTMENTS TO GRADE SHALL INCLUDE A NEW CONCRETE COLLAR, ELECTRONIC MARKING DEVICE (SPHERE EMD), AND A NEW RING AND COVER TO COMPLY WITH CURRENT STANDARD DRAWINGS. PAYMENT SHALL BE PER ADJUSTMENT AT THE CONTRACT UNIT PRICE.
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. ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
9. 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.
10. 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.
11. WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, 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.
12. ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH CITY UTILITY COORDINATOR.
13. WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE FIELD ENGINEER.
14. THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.
15. CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 8 FEET IN WIDTH OR WIDER.
16. CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC.
17. CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.
18. MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 24 INCHES. BEDDING MATERIAL SHALL BE CLASS II, III, OR IV UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.
19. MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 18 INCHES. BEDDING MATERIAL SHALL BE CLASS I, II OR III.
20. 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.
21. THE CONTRACTOR SHALL CONSTRUCT CITY OF ALBUQUERQUE STANDARD WHEELCHAIR RAMPS THAT CONFORM TO CURRENT ADA REQUIREMENTS.
22. 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 PROJECT ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
23. 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. MAINTENANCE OF THE TEMPORARY PAVING WILL BE AT THE CONTRACTOR'S EXPENSE.
24. TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE ENGINEER.
25. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

GENERAL NOTES (CONT.)

26. ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
27. 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 SIDEWALKS, ARROWS AND LIEN MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD (PREFORM THERMO) PLASTIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
28. 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 CITY FIELD ENGINEER.
29. 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.
30. EXISTING MEDIAN CURB AND GUTTER AND 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 CITY FIELD ENGINEER AND PAID FOR AT CONTRACT UNIT PRICES.
31. 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 MUST 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.
32. ALL UTILITY 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 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.
33. 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.
34. ALL INTERFACING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
35. SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.
36. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.
37. THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.
38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.
39. ALL REINFORCING STEEL TO BE GRADE 60 UNLESS OTHERWISE NOTED ON PLANS.
40. STATIONS OF STORM DRAIN INLETS ARE TO THE CENTER OF GRATE.
41. ALL STORM DRAIN AND CONNECTOR PIPE WILL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.
42. EXCESS EXCAVATION REQUIRED TO CONSTRUCT THE PROJECT THAT DOES NOT HAVE A CORRESPONDING BID ITEM (IE: EXCAVATION OF SUBGRADE OR DIRT) SHALL BE REMOVED AND DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER AND WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
43. EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650, SUBPART P.
44. CONTRACTOR IS ADVISED TO VISIT THE PROJECT SITE PRIOR TO BIDDING AND FAMILIARIZE THEMSELVES WITH FIELD CONDITIONS INCLUDING THE LOCATION OF UTILITIES SHOWN ON THE PLANS AND OTHER UTILITIES/OBSTACLES CLEARLY VISIBLE IN THE FIELD.
45. 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.
46. REMOVAL AND DISPOSAL OF EXISTING ASBESTOS PIPE MATERIAL SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL GOVERNMENTAL LAWS AND REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL ASBESTOS PIPE MATERIAL AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIAL.
47. ALL NEW STORM INLETS SHALL BE TYPE "A" PER CITY OF ALBUQUERQUE STANDARD DRAWINGS 2201 AND 2202 UNLESS OTHERWISE NOTED ON THE PLANS. ALL STORM INLET GRATES SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARD DRAWING 2220.
48. IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE MEASURES TO PREVENT ABRUPT DROP-OFFS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

LEGEND

- EX 8"W —

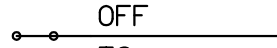
— EX 8"S —










- EXISTING WATER

EXISTING WATER VALVE

EXISTING SEWER

EXISTING SEWER MANHOLE

STREET SIGN BASE

INDICATES GRADE BREAK

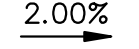
CENTERLINE STATIONING
OFFSET FROM CENTERLINE
PAVEMENT ELEVATION

CENTERLINE STATIONING
OFFSET FROM CENTERLINE
TOP OF CURB ELEVATION
GUTTER ELEVATION
- — — — —

— EX FO —

— EX G —

— EX OHE —






- EXISTING IMPROVEMENTS

EXISTING FIBER OPTIC LINE

EXISTING GAS LINE

EXISTING OVERHEAD ELECTRIC LINE

STREET SLOPE

EXISTING CONTOURS

RIGHT-OF-WAY

TEST HOLE LOCATION

ABBREVIATIONS

- BC1

C1

L1

℄

R/W

ESMT

PUE

L/S

B/C

S/W

VG=

P=

INV=

GB

LT

RT

EX

PR

COA STD DWG

TH
- BACK OF CURB CURVE DATA

CURVE DATA

LINE DATA

CENTER LINE

RIGHT OF WAY

EASEMENT

PUBLIC UTILITY EASEMENT

LANDSCAPE

BACK OF CURB

SIDEWALK

VALLEY GUTTER

PAVEMENT ELEVATION

INVERT ELEVATION

GRADE BREAK

LEFT

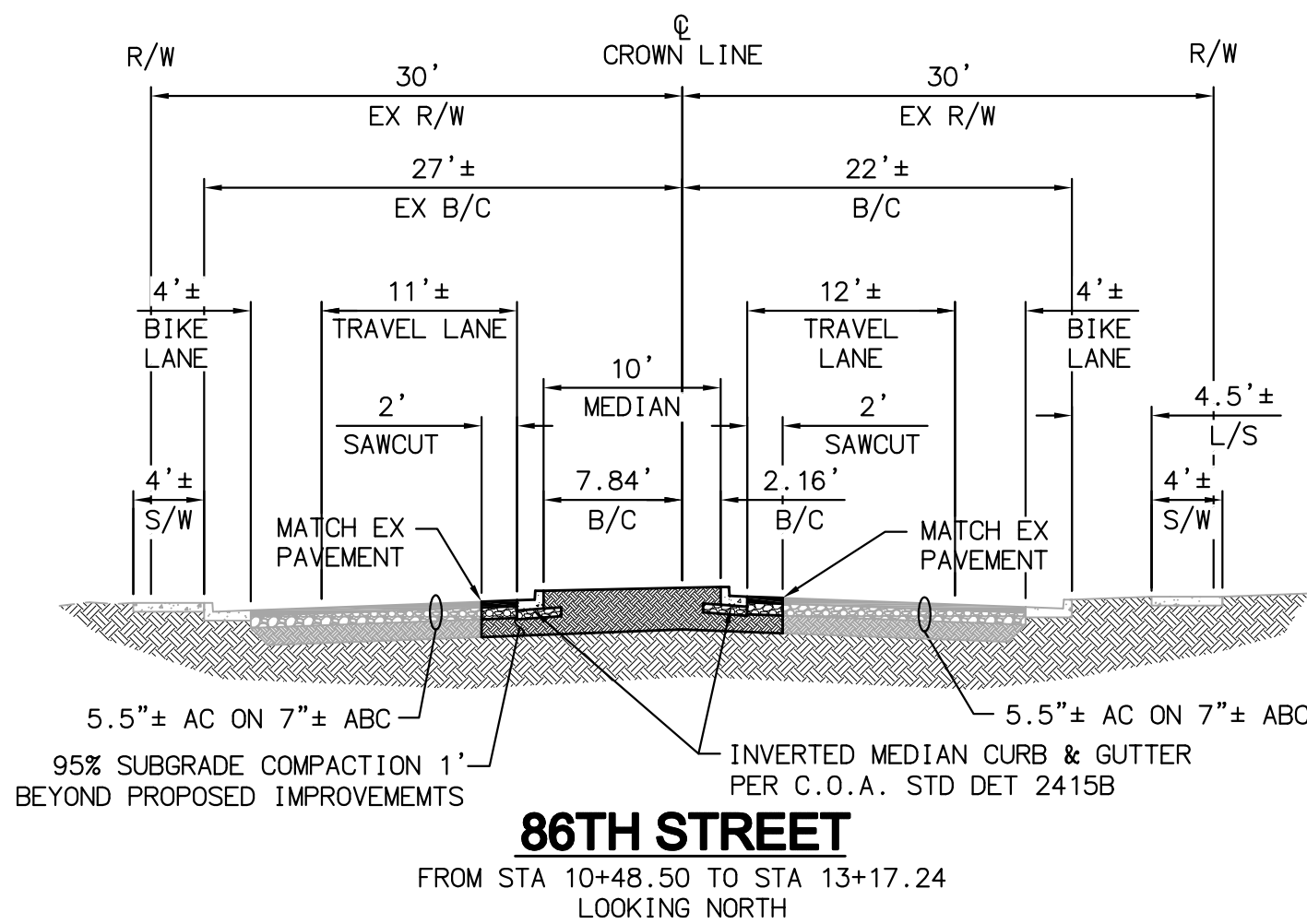
RIGHT

EXISTING

PROPOSED

CITY OF ALBUQUERQUE
STANDARD DRAWING

TEST HOLE





CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE:

86TH STREET & SAPPHIRE STREET
NOTES & DETAILS

Design Review Committee

City Engineer Approval

City Project No. 7690.91

Zone Map No. L-9 & M-9

Sheet 2

Of 3

Mo./Day/Yr.

Mo./Day/Yr.

Mo./Day/Yr.

Mo./Day/Yr.

Mo./Day/Yr.

Mo./Day/Yr.

Lost Design Update

City Project No. 7690.91

Zone Map No. L-9 & M-9

Sheet 2

Of 3

DESIGNED BY: RER

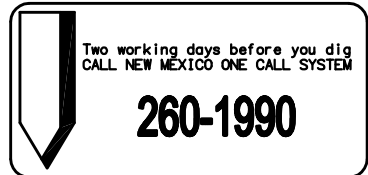
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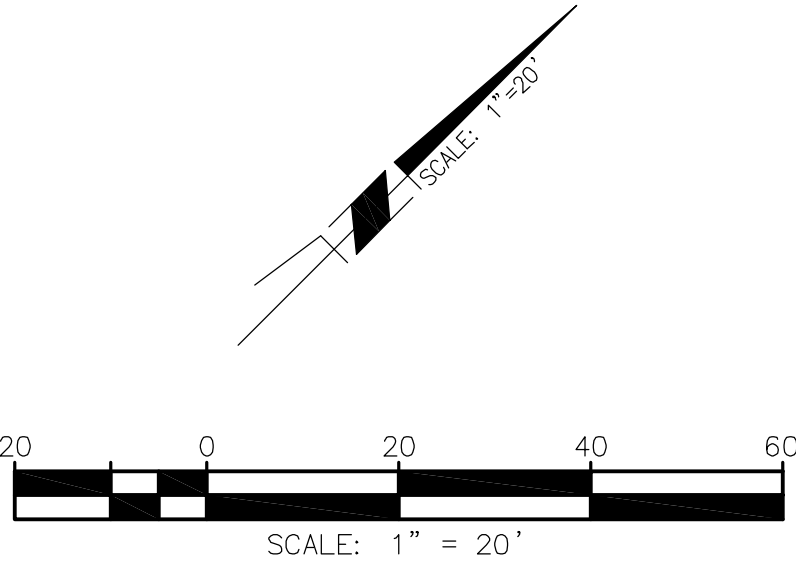
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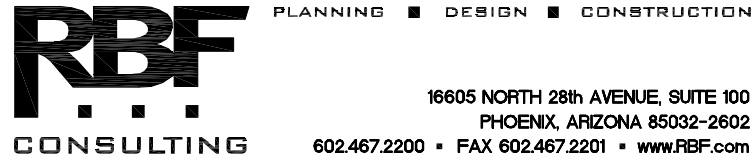
CONSTRUCTION NOTES

1. INSTALL MEDIAN INVERTED CURB & GUTTER PER C.O.A. STD DET 2415B.
2. SAWCUT & REMOVE EXISTING PAVEMENT 2' MIN TO NEAT CLEAN EDGE. REPLACE PAVEMENT IN KIND (5.5" AC ON 7" ABC).
3. SAWCUT & MATCH INTO EXISTING MEDIAN CURB.
4. ADJUST SEWER MANHOLE TO GRADE PER C.O.A. STD DET 2460 & 2461.
5. REMOVE MEDIAN PAVEMENT.
6. BACKFILL MEDIAN WITH CLEAN FILL, FREE OF VEGETATION, TRASH & ROAD DEBRIS TO AN ELEVATION 4" BELOW TOP OF CURB.

LINE/CURVE DATA TABLE				
NO.	BEARING/DELTA	RADIUS	LENGTH	TANGENT
BC1	180°00'00"	5.00'	15.71'	—
BC2	51°02'00"	160.00'	142.51'	76.37'
BC3	51°02'00"	180.00'	160.33'	85.92'
C1	51°10'49"	164.77'	147.18'	78.91'

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5088
5086

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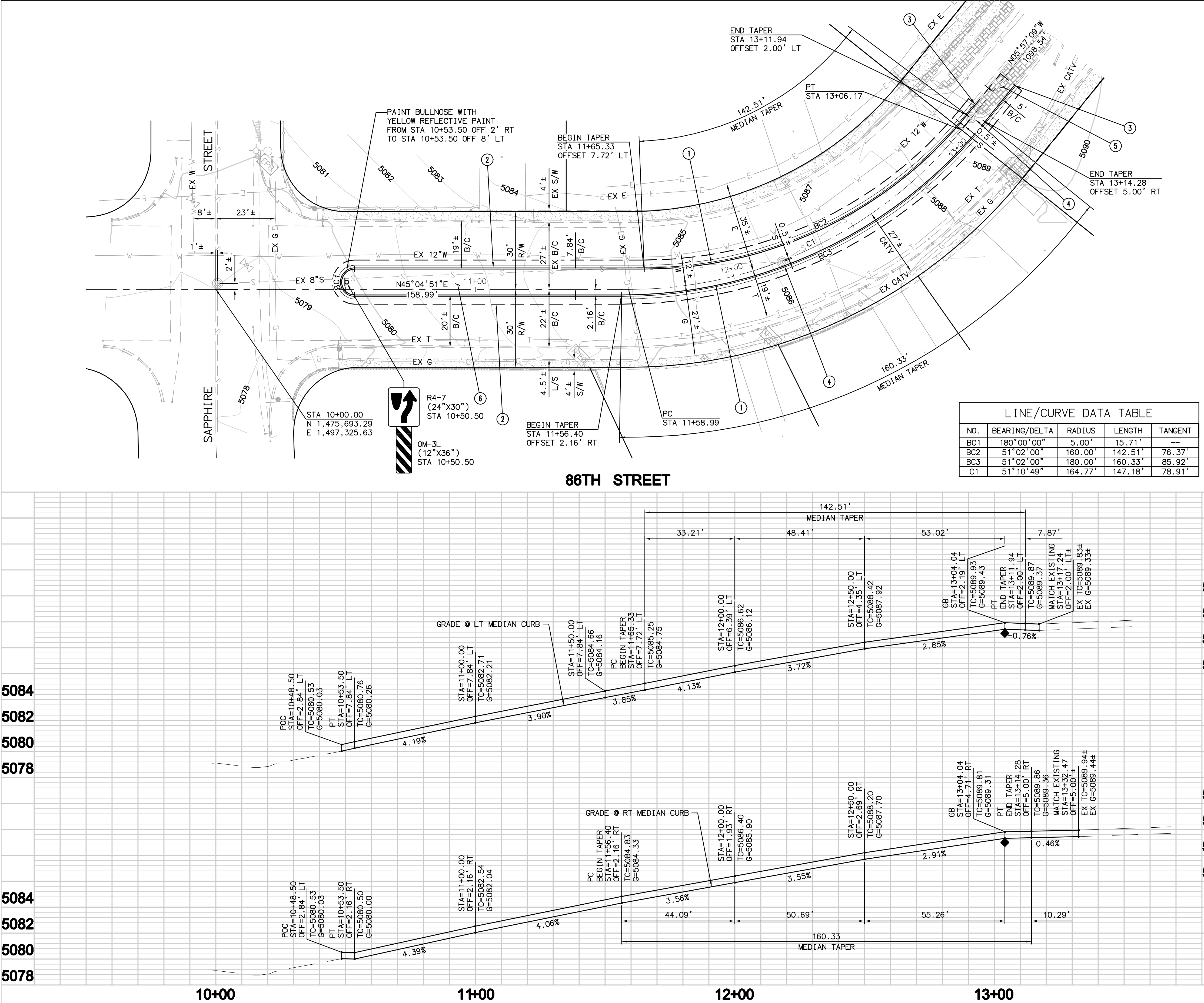


CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
TRANSPORTATION DEVELOPMENT DIVISION

TITLE:
86TH STREET & SAPPHIRE STREET
MEDIAN PLANS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
7690.91	L-9 & M-9	3	3

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