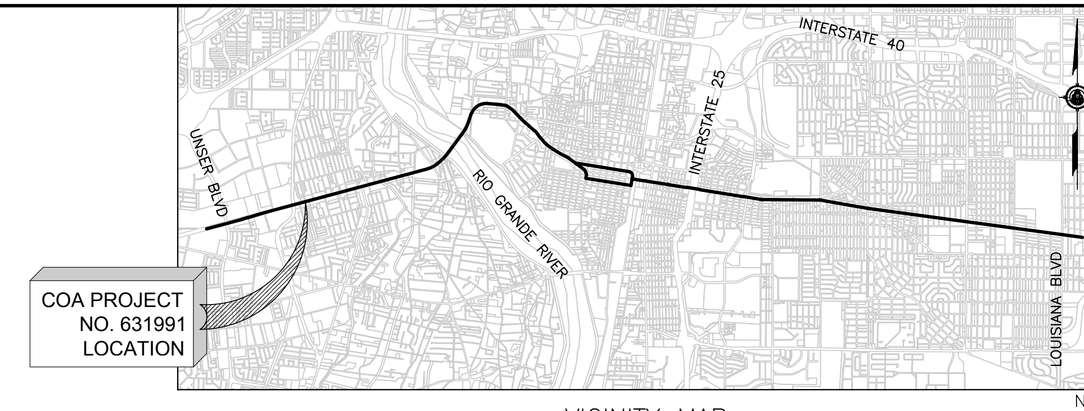
CITY OF ALBUQUERQUE, NEW MEXICO

ABQRIDE



VICINITY MAP
ZONE ATLAS MAPS:
J12, J13, K10, K11, K12, K13, K14, K15, K16, K17, K18, K19

CONSTRUCTION PLANS FOR
TRANSIT DEPARTMENT ABQ RIDE
CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
COA PROJECT NO. 631991

CORRIDOR STANDARD

SHEET INDEX

ENGINEERS STAMP & SIGNATURE

30% REVIEW

PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

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

APPROVALS	ENGINEER	DATE	APPROVED FOR CONSTRUCTION
DRC Chairman			
Transportation			
Water/Wastewater			
Hydrology			
Parks			
Constr. Mngmt.			City Engineer Date
Constr. Coord.			

CITY PROJECT NO.	SEGMENT NO.	SHEET	OF
631991	CORRIDOR STANDARD	1	62

Date: 19 Feb 2015 - 2:07pm zsharp Layout: COVER

GENERAL NOTES

1. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE DEPARTMENT OF MUNICIPAL DEVELOPMENT, CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS.

2. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

3. THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES, AT LEAST 24 HOURS IN ADVANCE, WITH PROPERTY OWNERS AND THE CONSTRUCTION PROJECT MANAGER.

4. IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE ACTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM NO. 116.0XX – ASPHALT CONCRETE TYPE X, COMPL. AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.

5. NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION BORROW OR SURFACING MATERIAL FROM ANY ACCEPTABLE SOURCE.

6. THE CONTRACTOR SHALL CLEAN ALL EXISTING STRUCTURES THAT ARE TO REMAIN OPERATIONAL. STRUCTURES SHALL BE CLEAN AT THE TIME OF FINAL PROJECT ACCEPTANCE. THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO CONSTRUCTION OF REINFORCED CONCRETE PIPE AND NO SEPARATE MEASUREMENT AND PAYMENT WILL BE MADE FOR CLEANING OF STRUCTURES.

7. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF 35 TON NON-VIBRATING ROLLER MAXIMUM TO OBTAIN THE REQUIRED COMPACTION IN PAVEMENT STRUCTURE, ROADWAY BACKFILL, EMBANKMENT, AND SUBGRADES IN URBAN AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER PERMANENT STRUCTURES.

8. CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

9. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE NO. 8, AMENDMENT 1, OR AS MODIFIED BY THE PROJECT SPECIFICATIONS TITLED CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT, AS STATED IN THE SPECIAL PROVISIONS.

10. ALL NEW STREET PAVING, CURB AND GUTTER, SIDEWALKS OR DRIVE PADS SHALL MATCH THE ELEVATIONS OF ABUTTING EXISTING AREAS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE PROJECT MANAGER.

11. SUBGRADE PREP SHALL EXTEND ONE FOOT BEYOND ANY FREE EDGE OF NEW CURB AND GUTTER, AND SIDEWALK WITHIN THE RIGHT-OF-WAY.

12. BEFORE SCHEDULING DELIVERY OF CONCRETE, CONTRACTOR SHALL MEET WITH CITY INSPECTOR/PROJECT MANAGER TO ENSURE THE CONCRETE FORMWORK IS CONSTRUCTED TO DIMENSIONS AND GRADES SHOWN ON PLANS AND MEETS PROWAG, 2011 TECHNICAL DESIGN CRITERIA. CONTRACTOR SHALL CALIBRATE 24" ELECTRONIC DIGITAL LEVEL PRIOR TO VERIFYING MEASUREMENTS. CONTRACTOR SHALL VERIFY MEASUREMENTS MEET REQUIREMENTS OR REQUIRE CORRECTION OF ALL DISCREPANCIES BEFORE SCHEDULING OF CONCRETE TO ENSURE THE FINISHED CONCRETE WILL MEET PROWAG REQUIREMENTS. WHEN ALL MEASUREMENTS MEET REQUIREMENTS THEN THE INSPECTOR SHALL PERMIT CONCRETE POUR. CONTRACTOR SHALL REPEAT THE PROCEDURE AFTER CONCRETE POUR TO ENSURE THE CURB RAMP MEETS PROWAG COMPLIANCE. FINAL ACCEPTANCE OF A CURB RAMP DOES NOT OCCUR UNTIL THE FINAL INSPECTION OF THE PROJECT. THIS PROCEDURE SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE ADA CURB RAMPS AND THE PROJECT.

13. DETECTABLE WARNING DEVICES ARE CONSIDERED INCIDENTAL TO ITEM NO. 340.023 – WHEELCHAIR ACCESS RAMPS, 4" PCC, STD. CURB, CIP. SD 2418 AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE.

14. WHEN ABUTTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW CUT, TO FULL PAVEMENT DEPTH, THE EXISTING PAVEMENT TO A NEAT VERTICAL STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING. THIS WORK SHALL BE INCLUDED IN THE PAYMENT FOR ITEM NO. 343.0X – EXISTING PAVEMENT, ASPHALT CONCRETE, X" THICK, SAWCUT, REMOVE AND DISPOSE, COMPL.

15. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT. SEE NOTE 27.

16. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, OR SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE PER CITY OF ALBUQUERQUE STANDARDS AT CONTRACTOR'S OWN EXPENSE.

17. 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 ITEMS. THERE WILL BE NO DIRECT COMPENSATION FOR THIS WORK.

18. SALVAGEABLE MATERIALS (SIGNS, BOLLARDS) FROM THE PROJECT SHALL BE HAULED TO THE CITY OF ALBUQUERQUE PINO YARDS. HAUL OF THE MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE PROJECT MANAGER.

19. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.

20. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING, AT CONTRACTOR'S OWN EXPENSE, ALL PERMITS NECESSARY FOR CONSTRUCTION.

21. ALL WORK IMPACTING AN ARTERIAL ROADWAY WILL REQUIRE TWENTY-FOUR(24) HOUR CONSTRUCTION IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE'S ORANGE BARREL POLICY.

22. CRITICAL INTERSECTION WORK SHALL NOT START UNTIL THE CONTRACTOR HAS ALL MATERIAL, EQUIPMENT, AND NECESSARY PERSONNEL ON-SITE. TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED PREMATURELY.

23. OVERNIGHT PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

24. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES.

25. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE STORAGE LOCATION AND SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING. THIS WORK, INCLUDING DESIGN, INSTALLATION, AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO ITEM NO. 621.401 – MOBILIZATION, COMPL. AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.

26. CONTRACTOR SHALL NOTIFY THE 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. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO STANDARD SPECIFICATIONS SECTION 4.4.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.

28. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL PERMANENT SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE.

29. WHEN EXISTING TRAFFIC SIGNALS ARE TURNED OFF, THE CONTRACTOR SHALL HAVE AN OFF-DUTY POLICE OFFICER DIRECT TRAFFIC. THIS WORK SHALL BE CONSIDERED TO INCIDENTAL ITEM 621.401 – "MOBILIZATION, COMPL." AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE.

30. THROUGHOUT THE LIFE OF THIS PROJECT, THE CONTRACTOR SHALL KEEP THE LOCAL NEWS MEDIA INFORMED OF CONSTRUCTION ACTIVITIES WHICH WILL IMPEDE OR DISRUPT THE NORMAL FLOW OF TRAFFIC.

31. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVISED BY THE PROJECT MANAGER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT.

32. IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PREHISTORIC ARTIFACTS, OR HUMAN REMAINS ARE DISCOVERED DURING EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE AND THE CONSTRUCTION ENGINEER SHALL NOTIFY LOCAL AUTHORITIES. IF HUMAN REMAINS ARE DETERMINED BY THE OFFICE OF THE MEDICAL EXAMINER NOT TO BE RECENT, THE ENGINEER SHALL NOTIFY THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT 827-6320.

33. WHEN APPEARING IN ANY PORTION OF THIS CONTRACT, THE WORDS "PLANT MIX BITUMINOUS PAVEMENT" (PMBP) AND THE WORDS "HOT MIX ASPHALT" (HMA) WILL HAVE THE SAME MEANING AS AND MAY BE USED INTERCHANGEABLY WITH THE WORDS "ASPHALT CONCRETE."

34. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

35. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.

36. TRENCHING REQUIRED FOR CONNECTING THE NEW STORM DRAIN REINFORCED CONCRETE PIPE TO THE EXISTING MANHOLES SHALL BE INCIDENTAL TO THE REINFORCED CONCRETE PIPE.

37. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.

38. ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES SHOWN ON THE PLANS ARE SHOWN IN AN APPROXIMATE LOCATION ONLY BASED ON THE INFORMATION PROVIDED TO THE ENGINEER BY OTHERS THAT MAY BE INACCURATE OR INCOMPLETE. ADDITIONALLY, UNDERGROUND LINES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK. ANY DAMAGE TO ANY OTHER UTILITIES OR COLLATERAL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

INCIDENTAL ITEMS

- CORRECTION OF PAVEMENT DROP-OFF. SEE GENERAL NOTE 4, THIS SHEET
- CLEAN EXISTING STRUCTURES, SEE GENERAL NOTE 6, THIS SHEET
- PREPOUR INSPECTION, SEE GENERAL NOTE 12, THIS SHEET
- DETECTABLE WARNING DEVICES, SEE GENERAL NOTE 13, THIS SHEET
- PAVEMENT SAWCUT, SEE GENERAL NOTE 14, THIS SHEET
- CLEAR ZONE SHIELDING, SEE GENERAL NOTE 25, THIS SHEET
- REMOVALS, SEE GENERAL NOTE 27, THIS SHEET
- OFF DUTY POLICE OFFICER, SEE GENERAL NOTE 29, THIS SHEET
- TRENCHING, SEE GENERAL NOTE 36, THIS SHEET
- ADDITIONAL ITEM NOTED ON PERMANENT SIGNING & STRIPING SHEETS, PROPOSED LIGHTING SHEETS, SIGNALIZATION SHEETS AND UTILITY SHEETS

CALL BEFORE YOU DIG!
STATEWIDE 811
ALBUQUERQUE 260-1990

AS BUILT INFORMATION
CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION
RECORDED BY — DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION
FIELD NOTES
NO.	BY	DATE

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS
NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY: XX — DATE: 2/19/2015
DRAWN BY: XX — DATE: 2/19/2015
CHECKED BY: XX — DATE: 2/19/2015

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ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
GENERAL NOTES AND INCIDENTALS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	2	62

GENERAL ABBREVIATIONS

ø	DIAMETER, PHASE
#	NUMBER
&	AND
@	AT
2:1, SL	2 HORIZONTAL TO 1 VERTICAL SLOPE
1 ON 2	1 VERTICAL ON 2 HORIZONTAL SLOPE
Δ	DELTA, DEFLECTION ANGLE
ABN	ABANDON IN PLACE
ABND	ABANDON OR ABANDONED
AC	ASPHALT CONCRETE, ASBESTOS CONCRETE
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJUSTABLE, ADJUST
ADMIN	ADMINISTRATION
ADPT	ADAPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ALT	ALTERNATIVE
AK.ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
APRVD	APPROVED
ARCH	ARCHITECT (URAL) (URE), ARCHITECTURAL
ARND	AROUND
ASPH	ASPHALT
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AUTO	AUTOMATIC
AUX	AUXILIARY
AWWA	AMERICAN WATER WORKS ASSOCIATION
AVG	AVERAGE
B, BOT	BOTTOM
B&C	BOX AND COVER
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BD	BASIN DRAIN
BLDG	BUILDING
BLW	BELOW
BM	BENCHMARK, BEAM, BERN
BOC	BEGINNING OF CONSTRUCTION
BOP	BEGINNING OF PROJECT, BOTTOM OF PIPE
BOW	BOTTOM OF WALL
BRG	BEARING
BRK	BRICK
BTWN, BTW	BETWEEN
BW	BASE OF WALL
BYND	BEYOND
BYP	BYPASS
CAP	CAPACITY
CATV	CABLE TV LINE
CB	CATCH BASIN
CC	CENTER TO CENTER
CEM	CEMENT
CF	CURB FACE
CG	CURB AND GUTTER
CJ	CONSTRUCTION JOINT, CONTROL JOINT
CHKD	CHECKERED
CIRC	CIRCUMFERENTIAL
CL	CHAIN LINK
℄	CENTERLINE
CLR	CLEAR, CLEARANCE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMM	COMMUNICATION
COMP	COMPRESSOR
CON	CONCENTRIC
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE (D, S, CONTINUOUS), CONTINUATION
CP	CONTROL POINT
CS	CONCRETE SEALER/SURFACE
CTJ	CONTROL JOINT
CTR	CENTER, CENTERED
CU FT	CUBIC FOOT (FEET)
CU YD	CUBIC YARD(S)
CW	COLD WATER
CWO	CHAIN WHEEL OPERATOR
DCO	DOUBLE CLEAN OUT
DCT BK	DUCT BANK
DECID	DECIDUOUS
DEFL	DEFLECT
DEG	DEGREE
DF	DRINKING FOUNTAIN
DHDPE	DOUBLE-WALLED HDPE
DI	DUCTILE IRON
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISCH	DISCHARGE
DIST	DISTANCE
DIV	DIVISION
DL	DEAD LOAD
DMG	DOUBLE MECHANICAL JOINT
DN	DOWN
DP	DEPTH
DPVC	DOUBLE-WALLED PVC
DRN	DRAIN
DS	DUPLEX MANUAL STRAINER, DUCT SUPPORT
DT	DOUBLE TEE
DTL	DETAIL
DUE	DRAINAGE UTILITY EASEMENT
DW	DOMESTIC WATER
DWG	DRAWING
DWL(S)	DOWEL(S)
E	EAST, EASTING
EA	EACH
ECC	ECCENTRIC
ED	EQUIPMENT DRAIN
EXP JT	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMERG	EMERGENCY
ENGR	ENGINEER
EOC	END OF CONSTRUCTION
EOP	END OF PROJECT
EOR	EDGE OF ROAD
EP	EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
ESMT	EASEMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION, EXPOSED
EXT	EXTERIOR, EXTERNAL
EXTD	EXTENDED
F	SILT FENCE
FAC	FACILITY
FAB	FABRICATED, FABRICATION
FDN	FOUNDATION
FE	FLANGED END
FG	FINISH GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FIN	FINISHED
FJ	FELT JOINT
FLR	FLOOR
FL	FLOW LINE
FM	FORCE MAIN
FOC	FACE OF CURB
FP	FLOOD PLANE, FULL PENETRATION
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FAR SIDE
FT	FEET, FOOT
FTG	FOOTING, FITTING
FXTR	FIXTURE
G	GAS
GA	GAGE
GALV	GALVANIZED
GALVS	GALVANIZED STEEL
GI	GRAVITY INLET
GM	GAS METER
GR	GRADE
GRD	GROUND
GRTG	GRATING
GSKT	GASKET
HORIZ	HORIZONTAL
HP	HIGH POINT (HIGH PRESSURE)
HR	HANDRAIL
HT	HEIGHT
HWL	HIGH WATER LEVEL
HYD	HYDRANT
Hz	HERTZ
ID	INSIDE DIAMETER, INSIDE DIMENSION
IE	INVERT ELEVATION
IF	INSIDE FACE
INV	INVERT
IN	INCH
INSUL	INSULATION, INSULATED
INT	INTERIOR
IRR	IRRIGATION
JB	JUNCTION BOX
JCT	JUNCTION
JT	JOINT
KS	KNEE SPACE
L	LENGTH
LB	POUND
LF	LONG FACE
LIN FT	LINEAR FEET
LL	LIVE LOAD
LONG	LONGITUDE
LP	LOW POINT (LOW PRESSURE)
LR	LONG RADIUS
LT	LEFT
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MEAS	MEASURE
MECH	MECHANICAL
MED	MEDIUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MOD	MODIFIED, MODIFICATION
MON	MONUMENT
MPH	MILES PER HOUR
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
N	NORTHING, NORTH
NA, N/A	NOT APPLICABLE
NG	NATURAL GROUND
NIC	NOT IN CONTRACT
NO, NO.	NUMBER
NOM	NOMINAL
NS	NON-SHRINK
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
O/E	OR EQUAL
OHE	OVERHEAD ELECTRICAL
OF	OUTSIDE FACE
OPNG(S)	OPENING(S)
OPP	OPPOSITE
OPT	OPTION(AL)
ORIG	ORIGINAL
PB	PULL BOX
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVATURE
PC	PRIMARY CLARIFIER
PED	PEDESTAL
PERF	PERFORATED
PG	PAGE
PGL	PROFILE GRADE LINE PER TYPICAL SECTION
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PL	PLACE
PNL	PANEL
PNT	PAINT
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PRELIM	PRELIMINARY
PRESS	PRESSURE
PRIM, PRI	PRIMARY
PROJ	PROJECTION
PRV	PRESSURE REDUCING VALVE
PS	PUMP STATION, PUMP SUPPORT
PSL	PIPE SLEEVE
PT	POINT, POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE PIPE, POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
QTY	QUANTITY
R	RADIUS
RECT	RECTANGULAR
REF	REFERENCE
REINF	REINFORCE, REINFORCED, REINFORCING
REQD	REQUIRE, REQUIRED
REV	REVISION
RJ	RESTRAINED JOINT(S)
RR	RAILROAD
R&R	REMOVE AND REPLACE PER ORIGINAL OR BETTER
R&S	REMOVE & SALVAGE TO OWNER TO ONSITE LOCATION AS DIRECTED
RT	RIGHT
R/W	RIGHT-OF-WAY
S	SOUTH, SLOPE
SAS	SANITARY SEWER
SB	SPLITTER BOX
SCH	SCHEDULE
SD	STORM DRAIN
SE	SOUTHEAST
SEG	SEGMENT
SEC, SECT	SECTION
SERV	SERVICE
SF	SHORT FACE
SH, SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SLO	SHORT LEG OUTSTANDING
SPA	SPACING
SPEC	SPECIFICATION, SPECIFIED
SQ	SQUARE
SQ FT	SQUARE FEET
SQ YD	SQUARE YARD(S)
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL
STRUC	STRUCTURE
SUP	SUPPORT
SUSP	SUSPENDED
SW	SIDEWALK
SYM	SYMMETRICAL
T	THICK
TA	TOP OF ASPHALT
T&B	TOP AND BOTTOM
TBM	TEMPORARY BENCHMARK
TC	TOP OF CONCRETE
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE
THD	THREADED
TO	TOP OF
TOC	TOP OF CURB
TOS	TOE OF SLOPE
TOW, TW	TOP OF WALL
TP	TOP OF PIPE
TRANS	TRANSVERSE, TRANSITION
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRICAL LINE
UNK	UNKNOWN
UNO	UNLESS NOTED OTHERWISE
V	VALVE
VAC	VACUUM
VC	VERTICAL CURVE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VPI	VERTICAL POINT OF INTERSECTION
W	WEST
W/	WITH
WL	WATERLINE
WM	WATER METER
W/O	WITHOUT
WP	WATERPROOF
WS	WATERSTOP
WT	WEIGHT
WV	WATER VALVE

PIPING MATERIALS AND EQUIPMENT

ARV	AIR RELEASE VALVE
AR	AIR RELEASE
A/V	AIR VACUUM VALVE
B	BLOWER
BCV	BALL CHECK VALVE
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BPRV	BACK PRESSURE REGULATING VALVE
BPV	BACK PRESSURE VALVE
BSP	BLACK STEEL PIPE
BV	BALL VALVE
CI, CIP	CAST IRON PIPE
CISP, CST	CAST IRON SOIL PIPE
CPLG	COUPLING
CS	CARBON STEEL
CU	COPPER
CV	CHECK VALVE (AIR CUSHION)
DI, DIP	DUCTILE IRON PIPE
DIPS	DUCTILE IRON PIPE SIZE
DPVC	DOUBLE WALLED PVC PIPE
DV	DIAPHRAGM VALVE
ELB	ELBOW
FA	FLANGED ADAPTOR
FCV	FLOW CONTROL VALVE
FG	FLAP GATE
FRP	FIBERGLASS REINFORCED PLASTIC
GSP	GALVANIZED STEEL PIPE
GC	GROOVED COUPLING
GLV, GLBV	GLOBE VALVE
GV, GTV	GATE VALVE
MV	MUD VALVE
PCV	PRESSURE CONTROL VALVE
PG	PRESSURE GAUGE
PRV	PRESSURE RELIEF VALVE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE PIPE
PVRV	PRESSURE VACUUM RELIEF VALVE
RCCP, RCP	REINFORCED CONCRETE PIPE
SST	STAINLESS STEEL PIPE
STL	STEEL PIPE
IPS	IRON PIPE SIZE
MC	MECHANICAL COUPLING
UN	UNION
VCP	VITRIFIED CLAY PIPE
VFD	VARIABLE FREQUENCY DRIVE
WST	WELDED STEEL PIPE

PIPING NOMENCLATURE

BF	BLIND FLANGE
DRN	DRAIN
EFF	EFFLUENT
FE	FLANGED END
FH	FIRE HYDRANT
FL	FLUSH LINE
HDPE	HIGH DENSITY POLYETHYLENE
NPW	NON POTABLE WATER
RW	REUSE WATER
VB	VALVE BOX

AS BUILT INFORMATION

CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION

RECORDED BY — DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

HDR
2155 LOUISIANA BLVD NE, SUITE 9500
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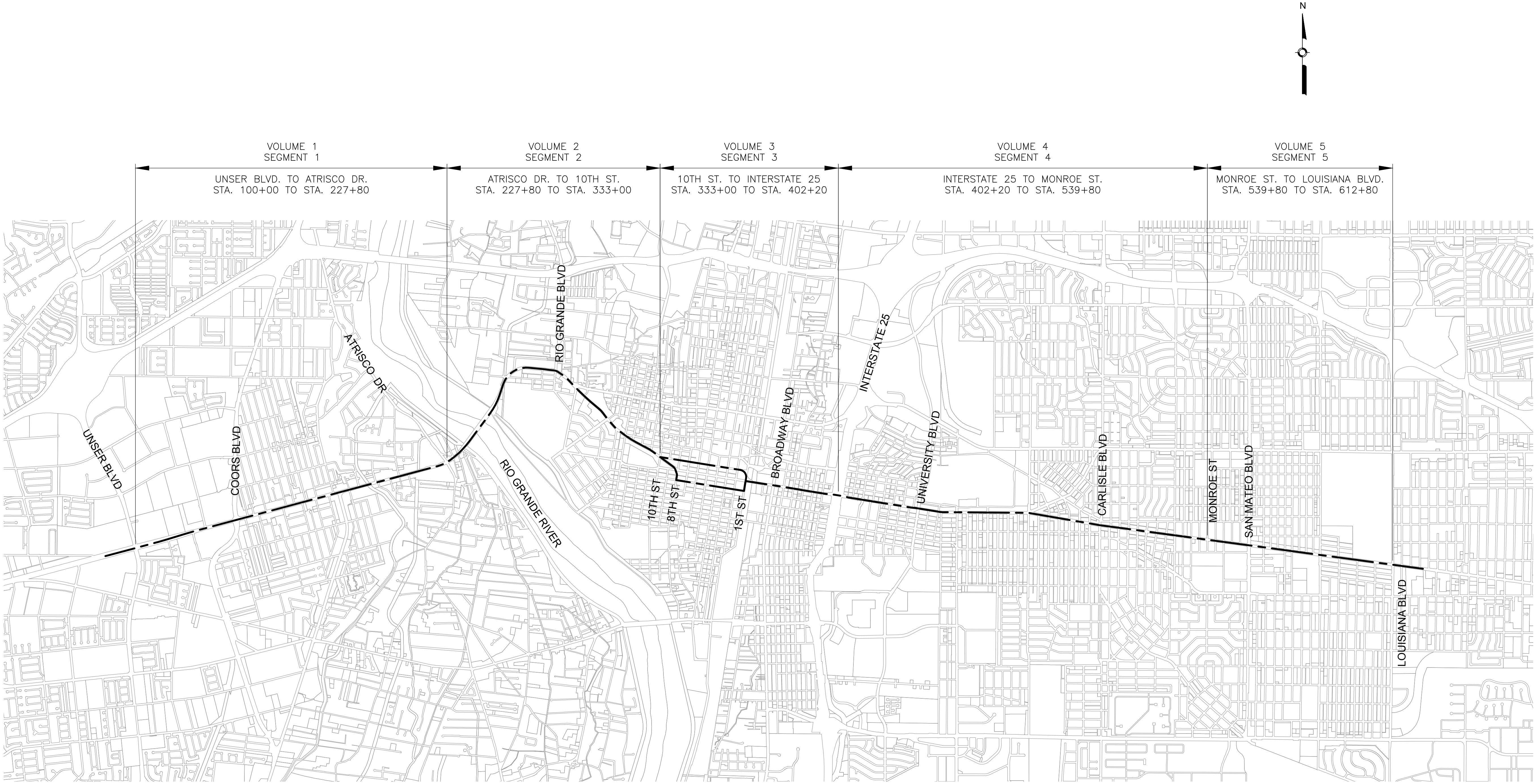
ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
ABBREVIATIONS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	3	62

VOLUME 1 SEGMENT 1	VOLUME 2 SEGMENT 2	VOLUME 3 SEGMENT 3	VOLUME 4 SEGMENT 4	VOLUME 5 SEGMENT 5
UNSER BLVD. TO ATRISCO DR. STA. 100+00 TO STA. 227+80	ATRISCO DR. TO 10TH ST. STA. 227+80 TO STA. 333+00	10TH ST. TO INTERSTATE 25 STA. 333+00 TO STA. 402+20	INTERSTATE 25 TO MONROE ST. STA. 402+20 TO STA. 539+80	MONROE ST. TO LOUISIANA BLVD. STA. 539+80 TO STA. 612+80



AS BUILT INFORMATION

CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION

RECORDED BY — DATE:
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BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
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SURVEY INFORMATION

FIELD NOTES

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REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

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ABQRIDE

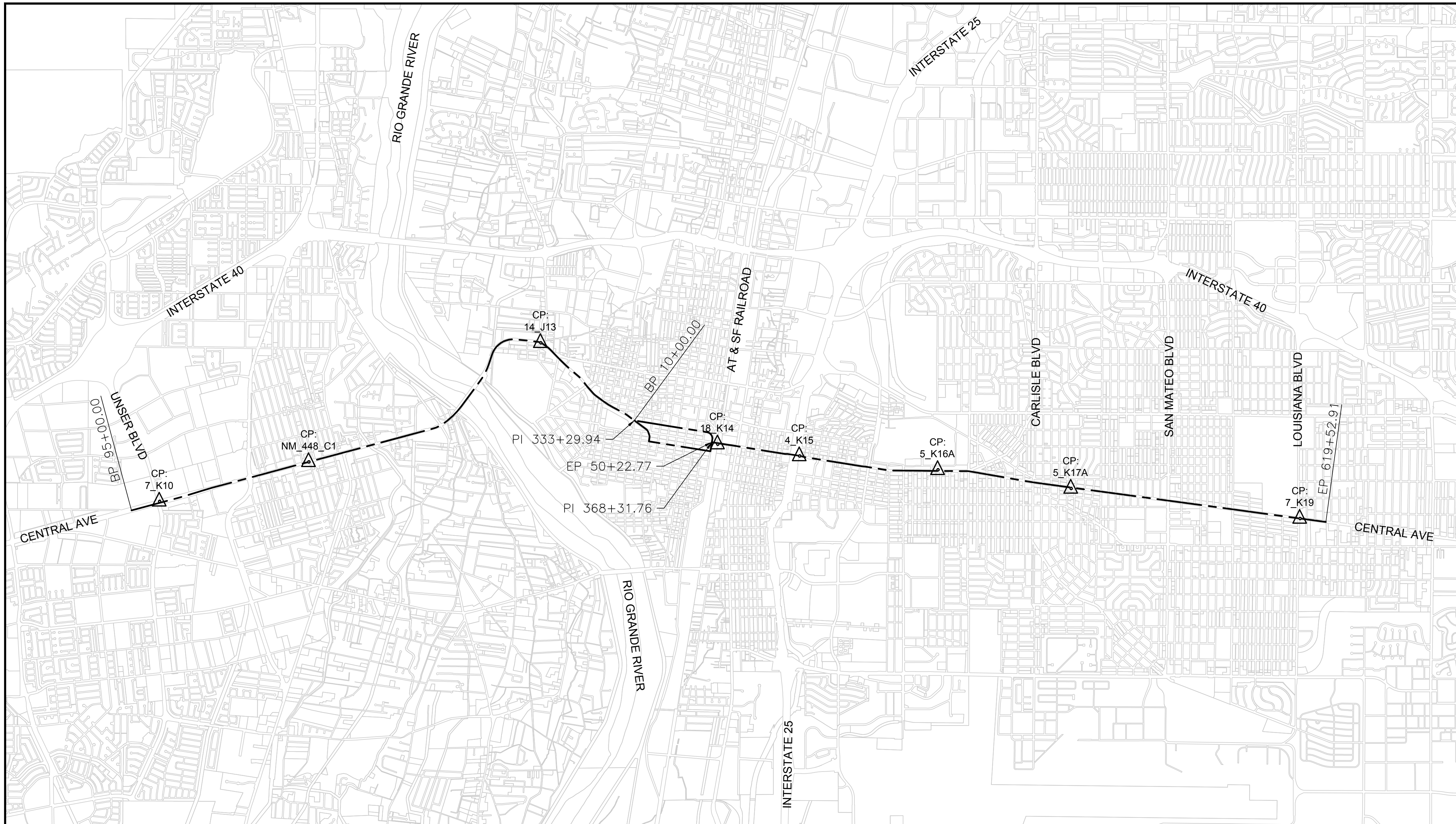
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
OVERALL SITE LAYOUT

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	4	62

Date: 19 Feb 2015 - 2:24pm User: amguller
Drawing Name: OS01.dwg



GENERAL SURVEY NOTES:

1. CONTROL SURVEY WAS PERFORMED JULY–AUGUST, 2014. HORIZONTAL DATUM: NAD83 (AGRS 2008 CONTROL ADJUSTMENT) VERTICAL DATUM: NAVD88 (AGRS 2008 CONTROL ADJUSTMENT) GEOID MODEL: GEOID12A PROJECT CF=0.999670253 BASED ON AGRS MONUMENT 5_K16A.

DATUM BENCHMARK:

1. A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5–K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
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E: 1530495.993 USFt
ELEV: 5174.054 USFt

CONTROL POINT DATA:

CP: 7_K10 N: 1483739.165 E: 1498962.651 ELEV: 5097.854	CP: NM_448_C1 N: 1485337.932 E: 1505010.213 ELEV: 5076.696
CP: 14_J13 N: 1490158.066 E: 1514405.693 ELEV: 4957.341	CP: 18_K14 N: 1486053.605 E: 1521576.548 ELEV: 4963.415
CP: 4_K15 N: 1485576.758 E: 1524891.658 ELEV: 5047.763	CP: 5_K16A N: 1485016.971 E: 1530495.993 ELEV: 5174.054
CP: 5_K17A N: 1484259.419 E: 1535891.429 ELEV: 5222.211	CP: 7_K19 N: 1483044.082 E: 1545165.941 ELEV: 5325.987

NOTE:
CONTROL POINT DATA IS IN GRID COORDINATES (NAVD 1988 ELEVATION DATUM: NAVD 1988).

SYMBOL LEGEND:

- UTILITY, WATER VALVE
- UTILITY, WATER HYDRANT
- UTILITY, WATER MANHOLE
- UTILITY, MONITOR WELL
- UTILITY, WATER STORAGE TANK
- UTILITY, PETROLEUM MARKER
- UTILITY, ELECTRICAL LIGHT POLE
- UTILITY, ELECTRICAL POWER POLE
- UTILITY, ELECTRICAL POWER POLE LARGE
- UTILITY, ELECTRICAL GUY WIRE
- UTILITY, SITE STRUCTURE PEDESTAL
- UTILITY, SANITARY MANHOLE
- UTILITY, UNKNOWN
- UTILITY, UNKNOWN
- ELECTRICAL, TRANSFORMER
- ELECTRICAL, RAIL EQUIPMENT
- ELECTRICAL, RAIL SIGNAL
- DRAINAGE, STORM PIPE ENDS
- DRAINAGE, CATCH BASIN
- SITE, CONIFEROUS TREE
- SITE, DECIDUOUS TREE
- SITE, CONC SPILLWAY
- SITE, BOLLARD
- SITE, TRAFFIC SIGN
- SITE, CONTROL POINT
- x5225.0 ELEVATION INDICATOR, FINISH

LINE STYLE LEGEND:

- CHAINLINK FENCE
- BARBED WIRE FENCE
- RAIL TRACK
- 5190 MAJOR CONTOUR
- MINOR CONTOUR
- RIVER EDGE
- DIRT ROAD
- RIVER CENTER LINE
- ASPHALT ROAD
- GUARD RAIL
- RIGHT OF WAY
- VEGETATION LIMITS
- CURB
- E UNDERGROUND ELECTRICAL CONDUIT
- FO FIBER OPTIC LINE
- G GAS LINE
- OHE OVERHEAD ELECTRIC LINE
- SAS GRAVITY SANITARY SEWER LINE
- SD STORM DRAIN
- UGT UNDERGROUND TELECOMMUNICATIONS
- SL SIGNAL POWER LINE
- W WATER MAIN LINE
- CATV CABLE TELEVISION LINE
- COMM COMMUNICATIONS LINE

AS BUILT INFORMATION
CONTRACTOR | DATE:
WORK STAKED BY | DATE:
INSPECTOR'S ACCEPTANCE BY | DATE:
FIELD VERIFICATION BY | DATE:
DRAWINGS CORRECTED BY | DATE:

MICRO–FILM INFORMATION
RECORDED BY | DATE:
NO.

BENCHMARKS
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SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

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02/2015

REVISIONS
NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

0 1,200' 2,400'

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ABQ RIDE

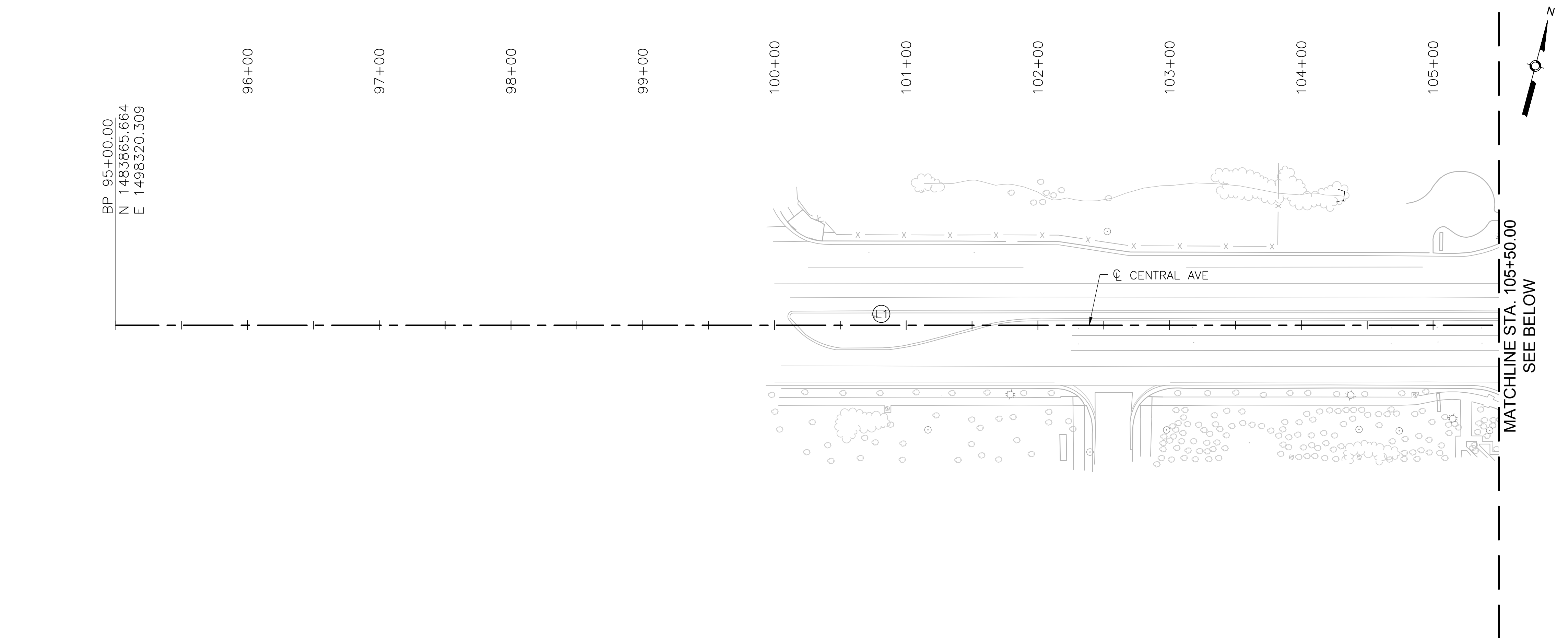
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
OVERALL PROJECT SURVEY CONTROL PLAN, NOTES, AND LEGEND

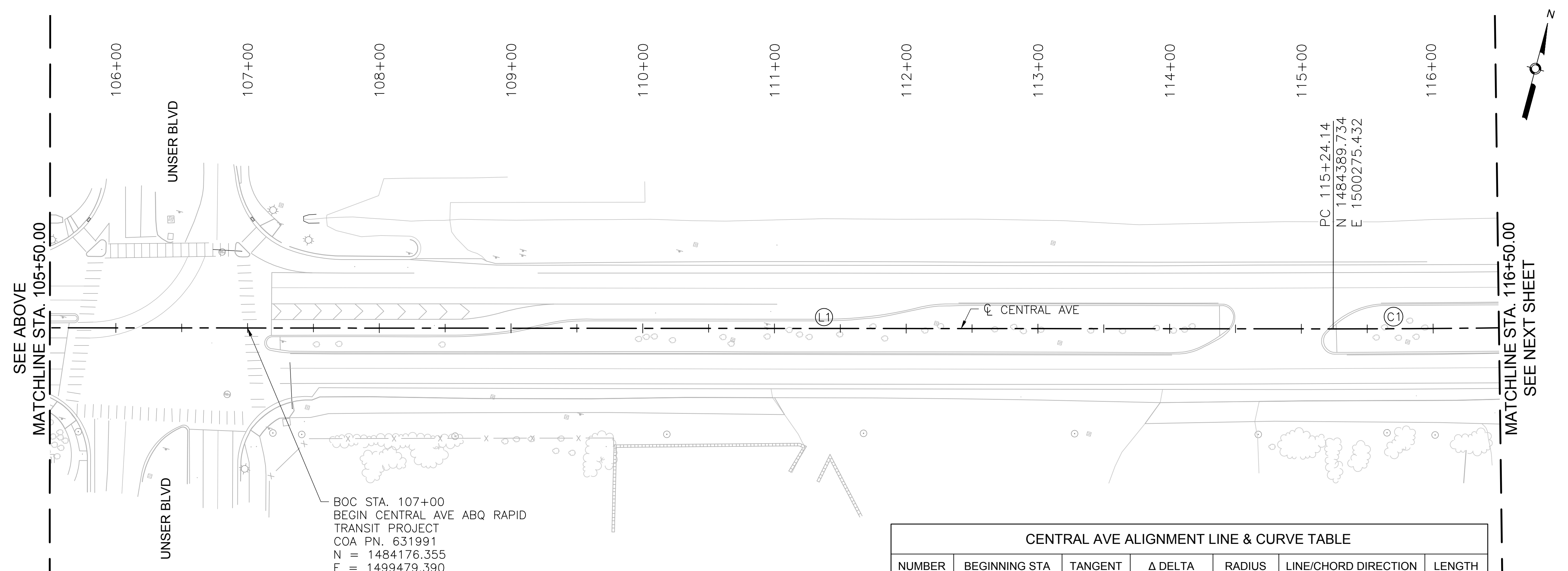
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	5	62

Date: 19 Feb 2015 – 2:24pm User: amguller
Drawing Name: SC_CSGN01.dwg



CENTRAL AVE



CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L1	STA 95+00.00				N74°59'40.68"E	2024.14
C1	STA 115+24.14	172.52'	2°12'52.11"	8926.00'	N73°53'14.62"E	344.99'

0 50' 100'

CENTRAL AVE

AS BUILT INFORMATION

CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION

RECORDED BY — DATE:
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BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

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REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
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ABQ RIDE

CITY OF ALBUQUERQUE
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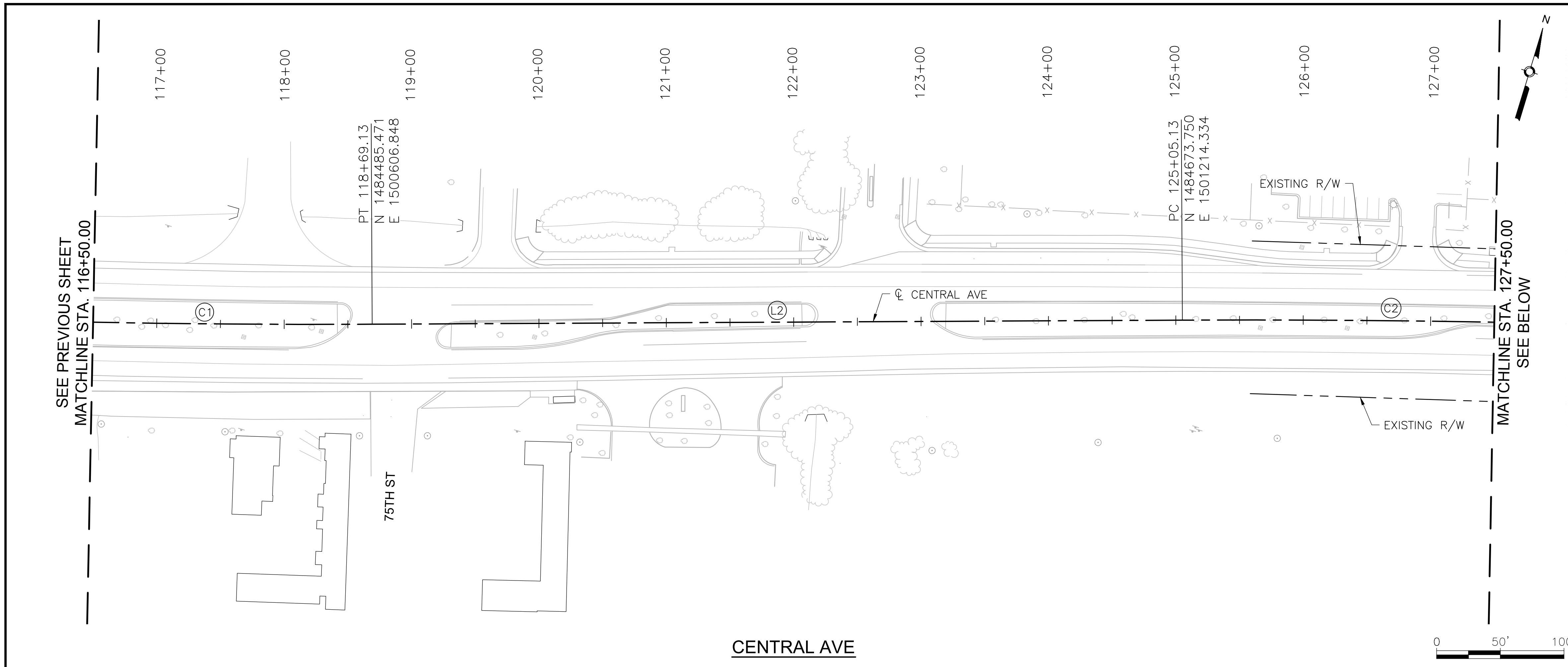
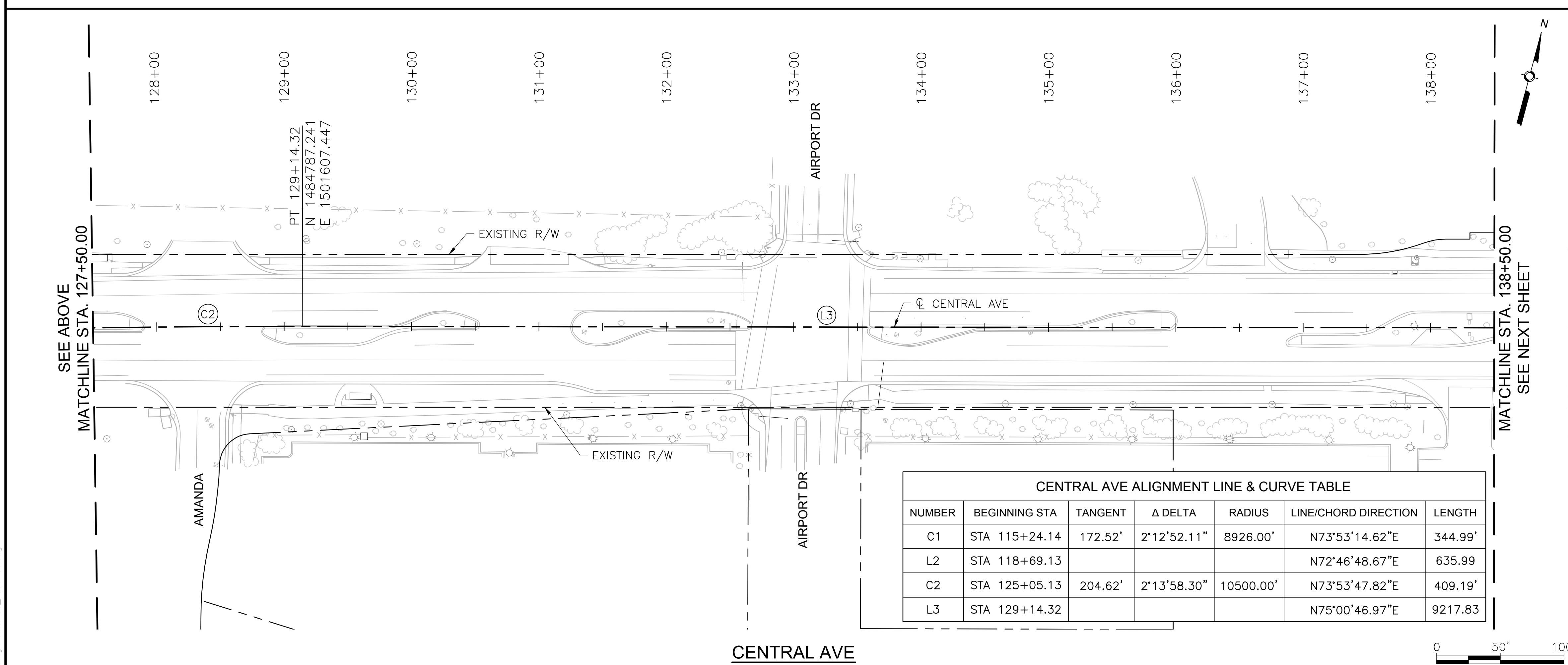
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	6	62

Date: 19 Feb 2015 - 2:27pm User: amgulier
Drawing Name: SC_PL01-08.dwg





CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
C1	STA 115+24.14	172.52'	2°12'52.11"	8926.00'	N73°53'14.62"E	344.99'
L2	STA 118+69.13				N72°46'48.67"E	635.99
C2	STA 125+05.13	204.62'	2°13'58.30"	10500.00'	N73°53'47.82"E	409.19'
L3	STA 129+14.32				N75°00'46.97"E	9217.83

AS BUILT INFORMATION

CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO–FILM INFORMATION

RECORDED BY — DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5–K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

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02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
CHECKED BY: EP DATE: 2/19/2015

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ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	7	62

Date: 19 Feb 2015 – 2:28pm User: amguller
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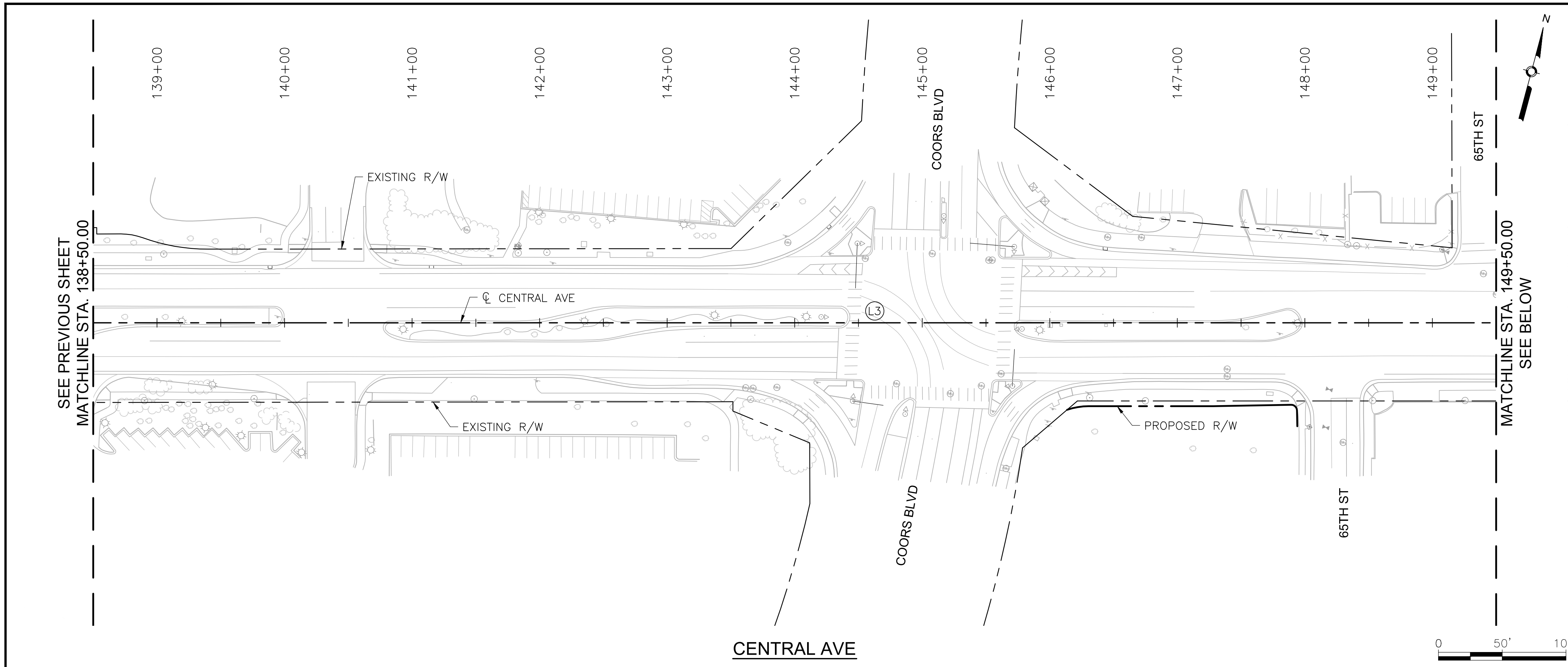

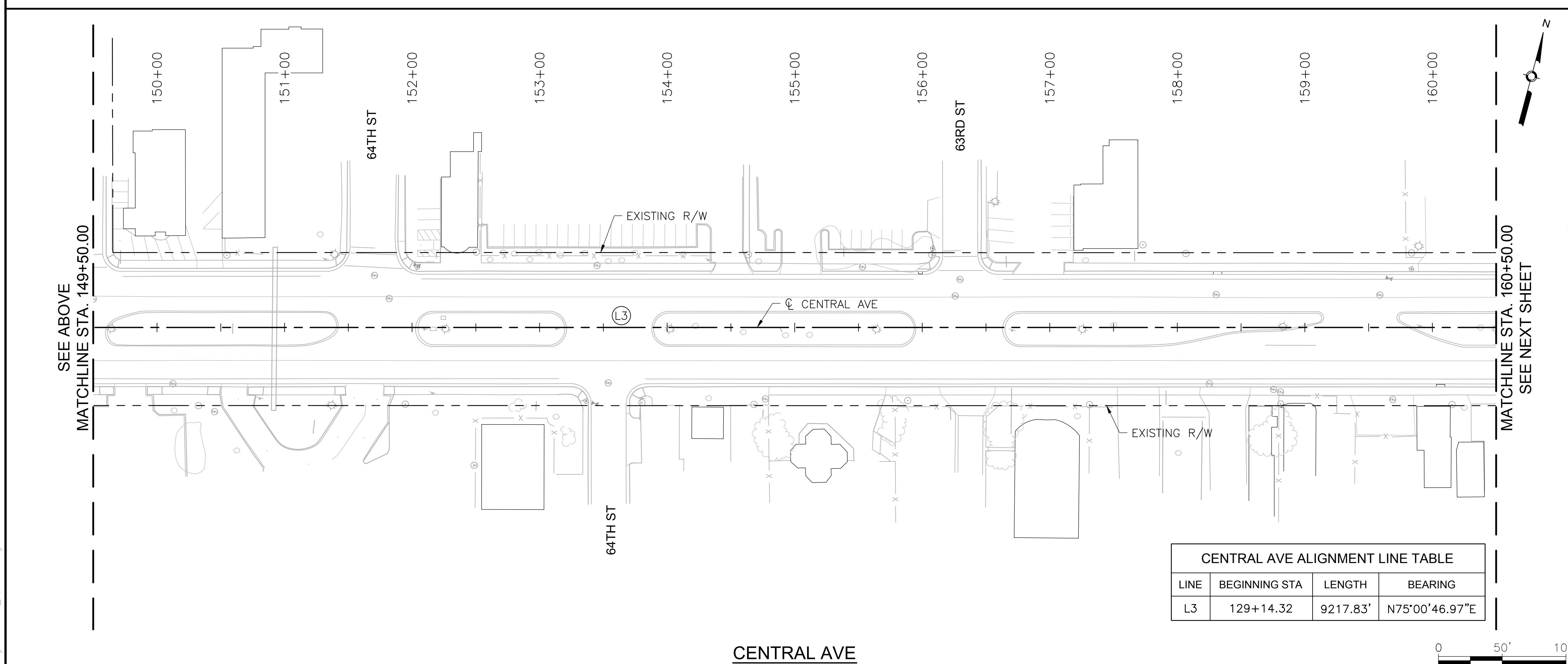

CENTRAL AVE ALIGNMENT LINE TABLE

LINE	BEGINNING STA	LENGTH	BEARING
L3	129+14.32	9217.83'	N75°00'46.97"E

AS BUILT INFORMATION
CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
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MICRO-FILM INFORMATION
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BENCHMARKS
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FIELD NOTES

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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.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	8	62

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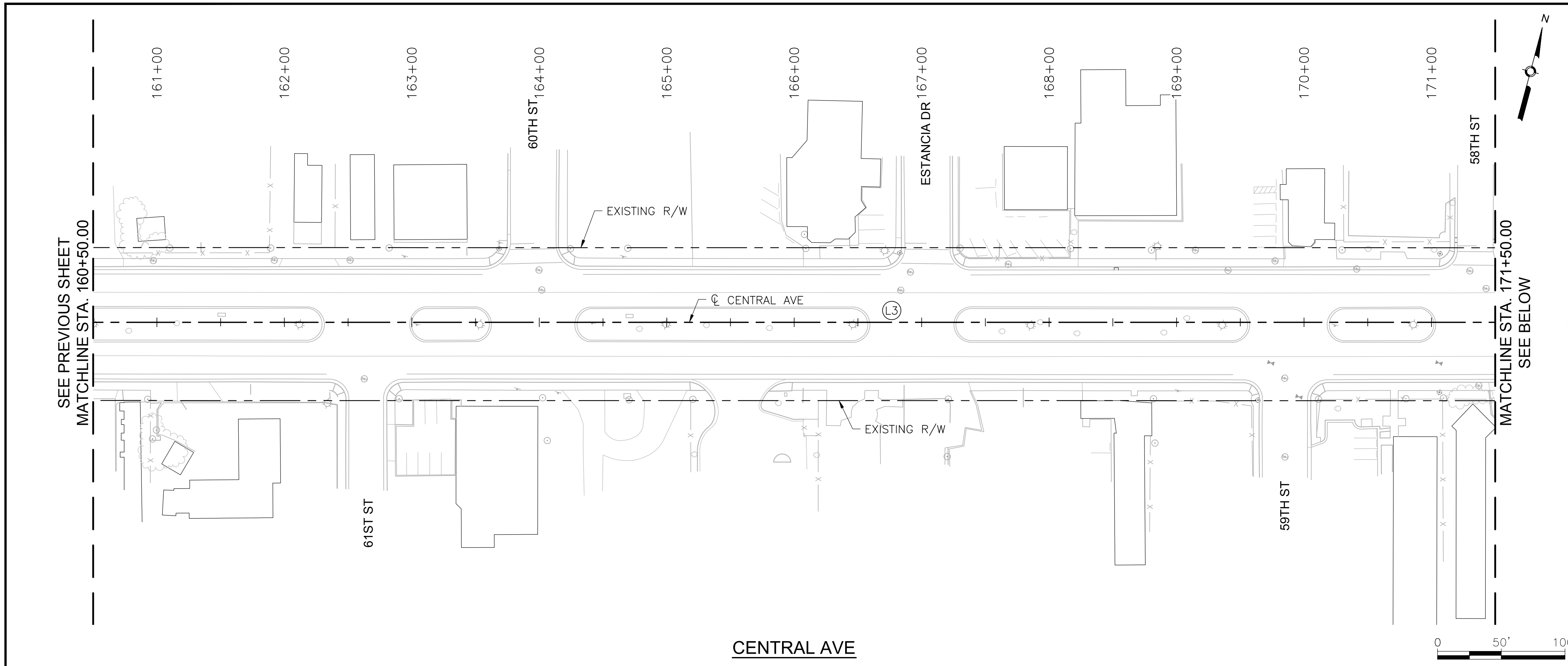

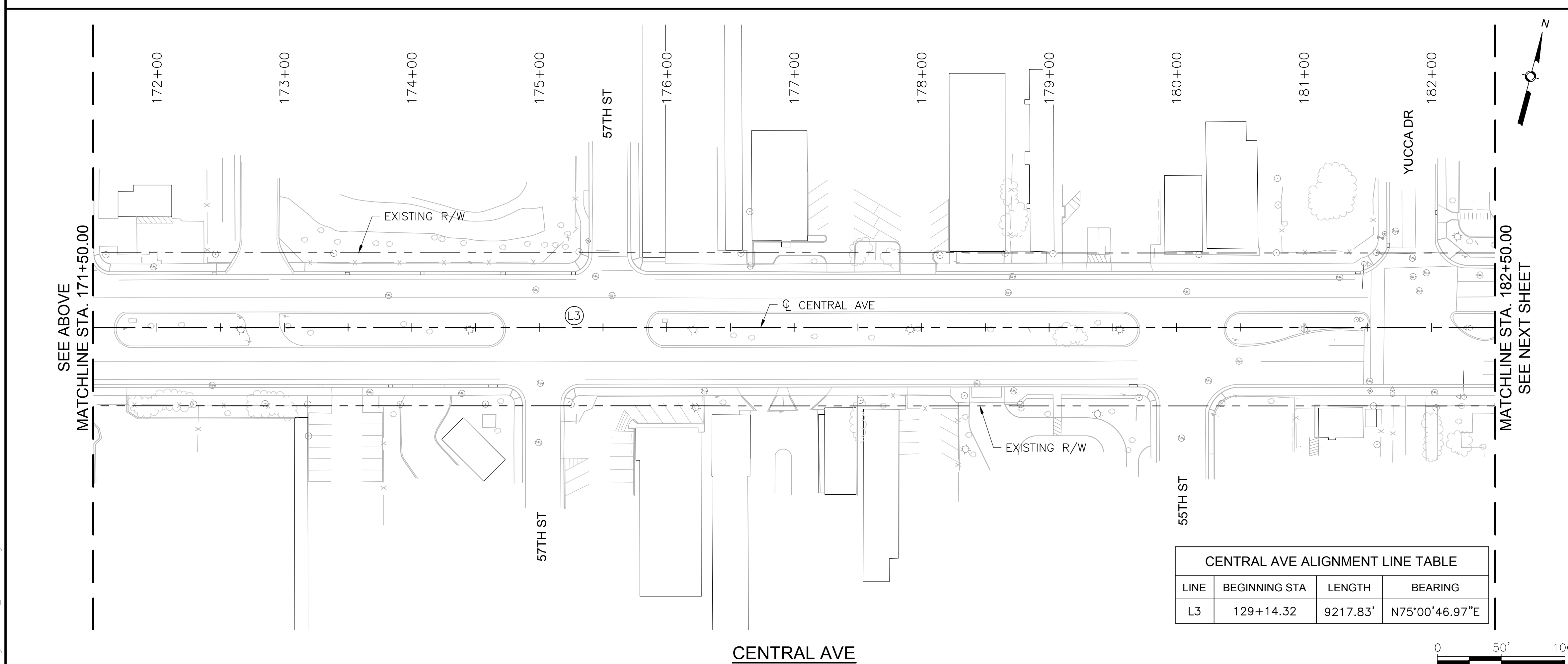

CENTRAL AVE ALIGNMENT LINE TABLE

LINE	BEGINNING STA	LENGTH	BEARING
L3	129+14.32	9217.83'	N75°00'46.97"E

AS BUILT INFORMATION

CONTRACTOR DATE:
WORK STAKED BY DATE:
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MICRO-FILM INFORMATION

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FIELD NOTES

NO.	BY	DATE

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SURVEY CONTROL

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

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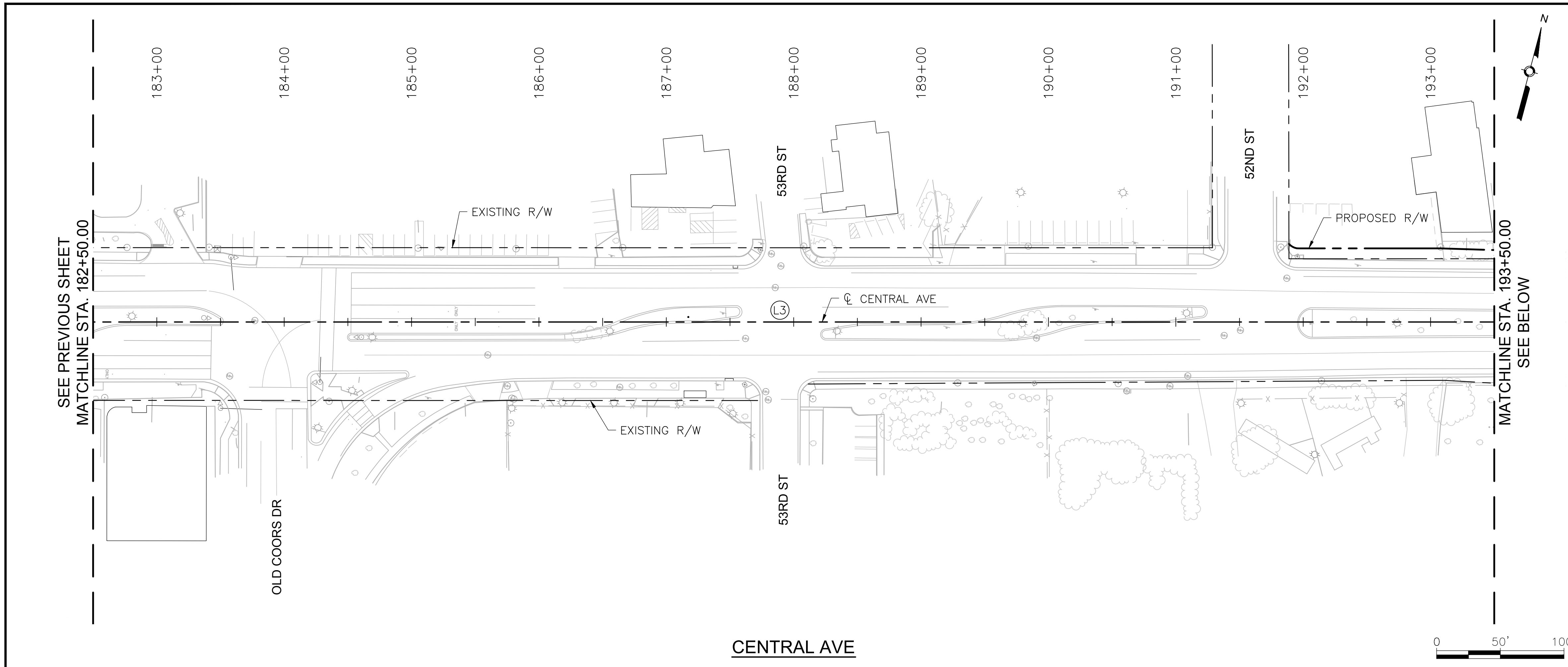
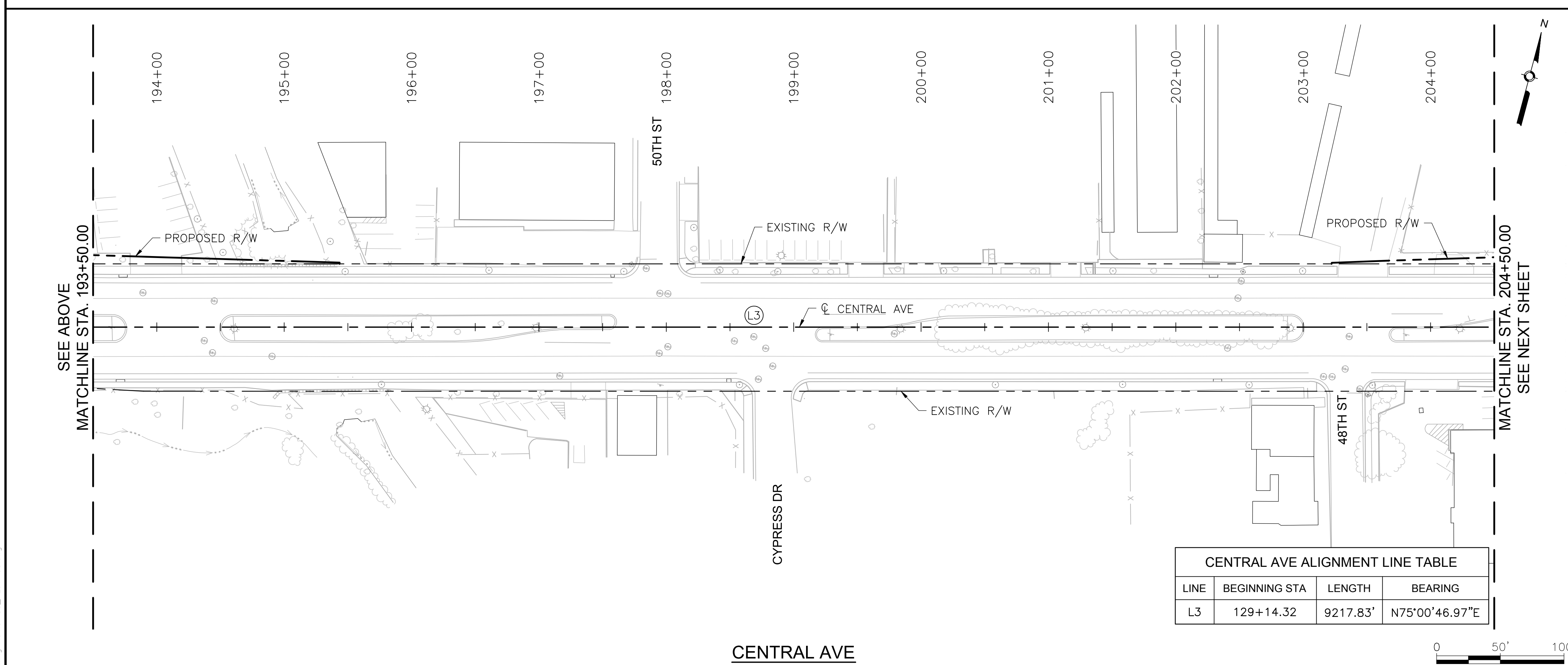
631991	J12-13, K10-19	CS	9	62





CENTRAL AVE ALIGNMENT LINE TABLE

LINE	BEGINNING STA	LENGTH	BEARING
L3	129+14.32	9217.83'	N75°00'46.97"E

AS BUILT INFORMATION

CONTRACTOR
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SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

30% REVIEW

PRELIMINARY
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02/2015

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

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DRAWN BY: ZS DATE: 2/19/2015
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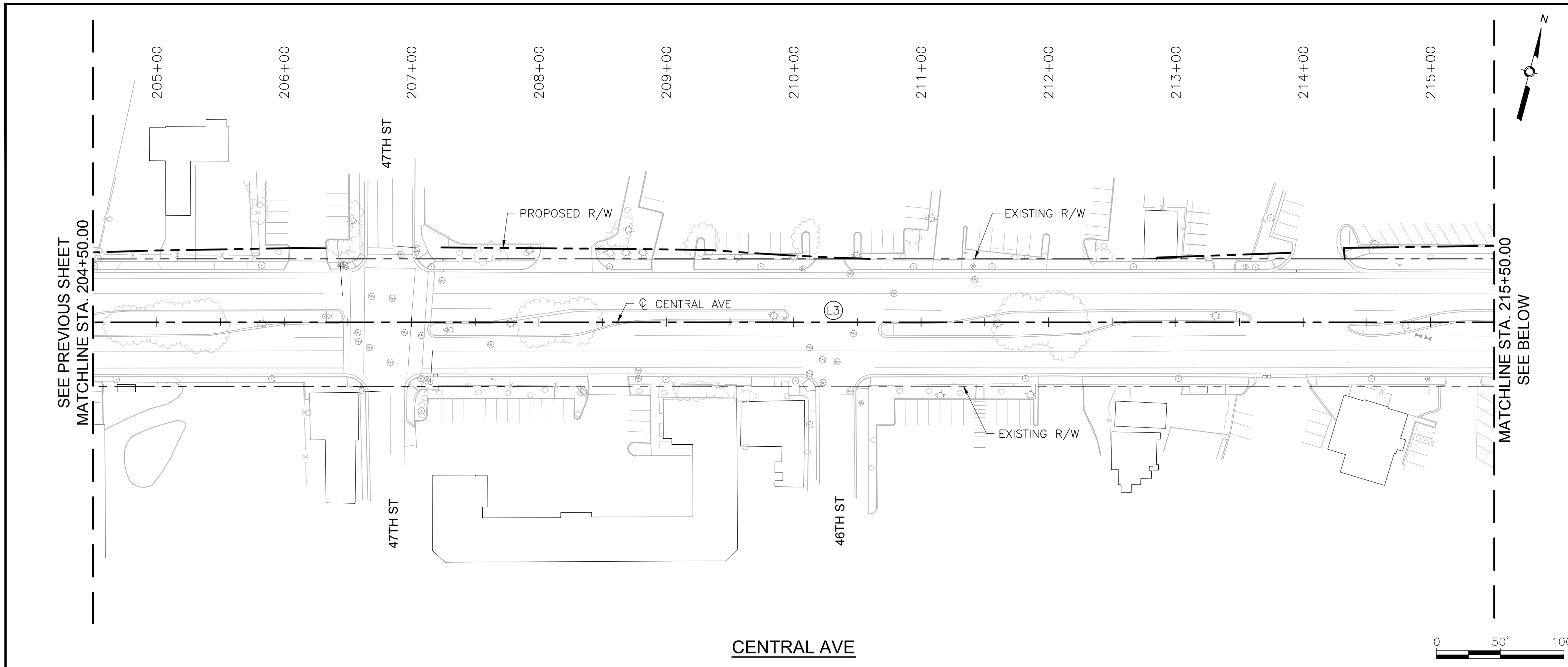
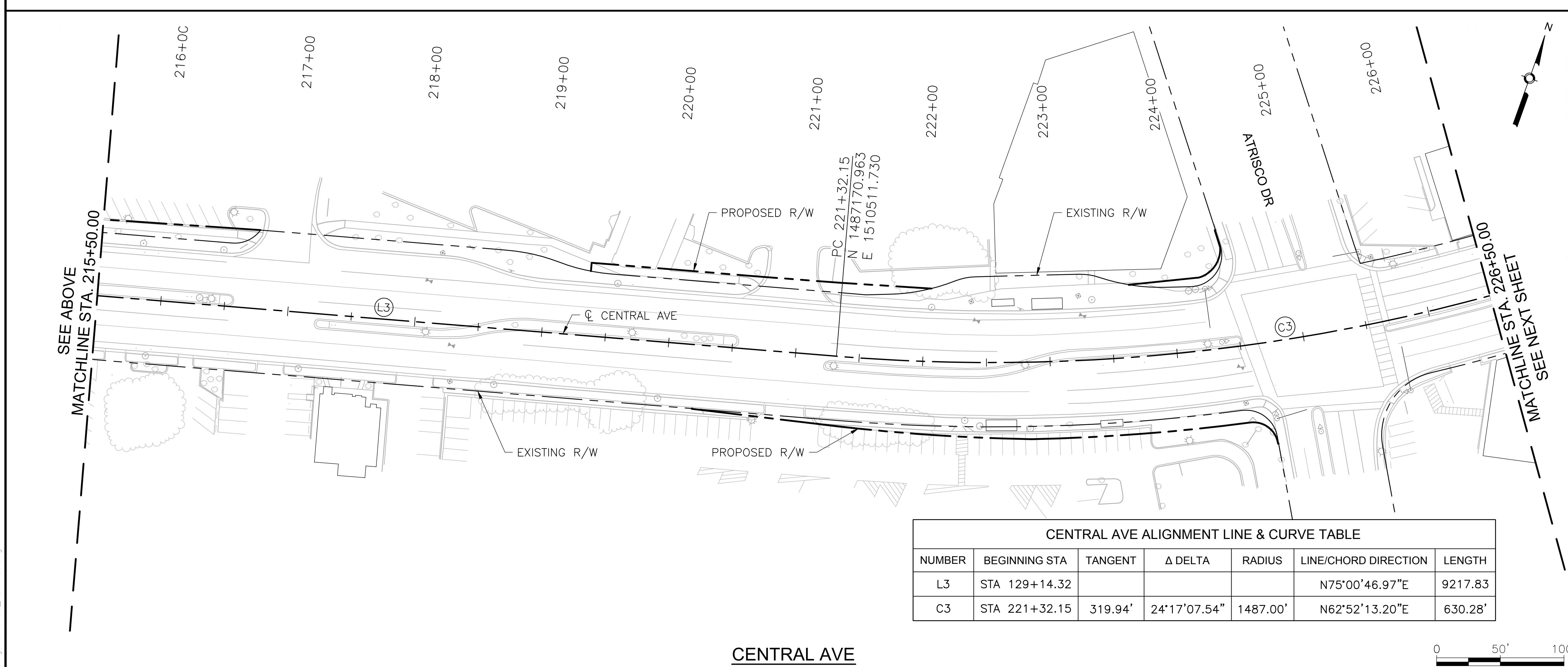
631991	J12-13, K10-19	CS	10	62





CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L3	STA 129+14.32				N75°00'46.97"E	9217.83
C3	STA 221+32.15	319.94'	24°17'07.54"	1487.00'	N62°52'13.20"E	630.28'

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO–FILM INFORMATION

RECORDED BY DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

30% REVIEW

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02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
CHECKED BY: EP DATE: 2/19/2015

HDR
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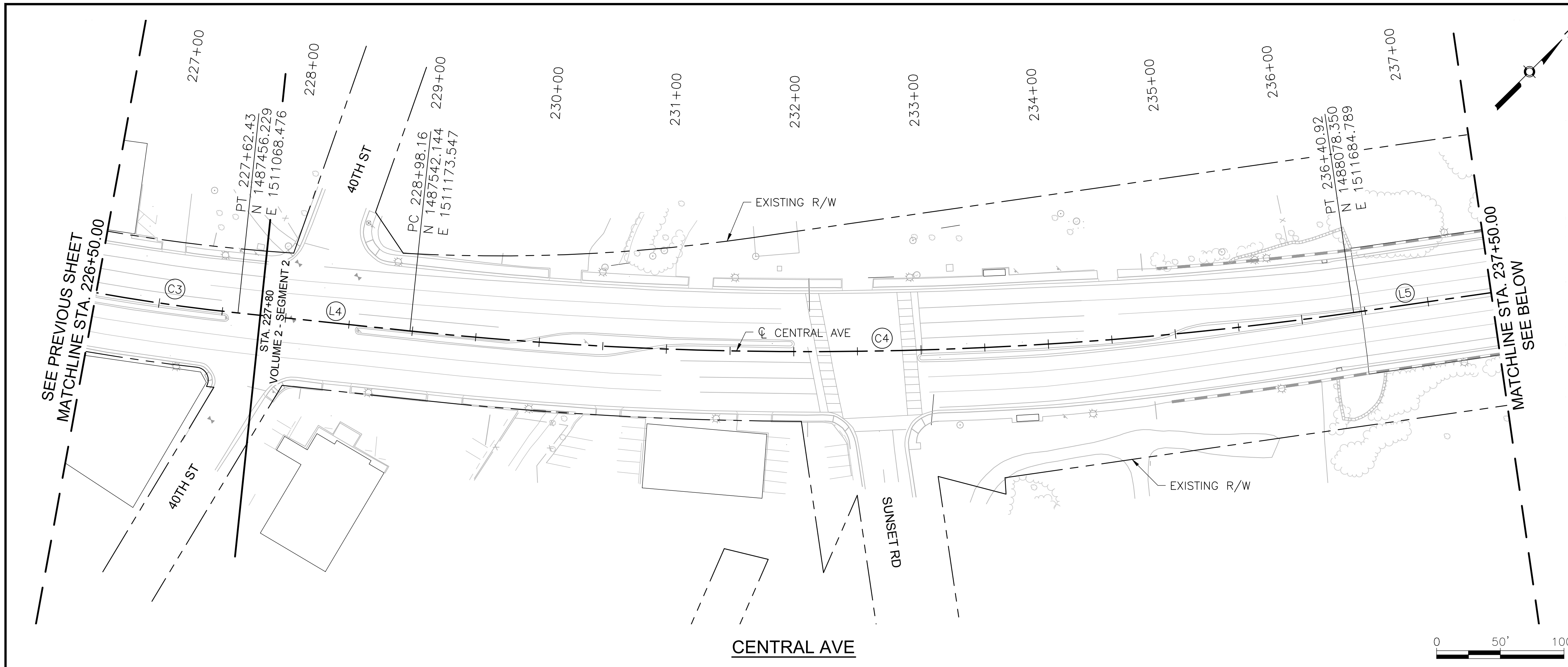
ABQRIDE

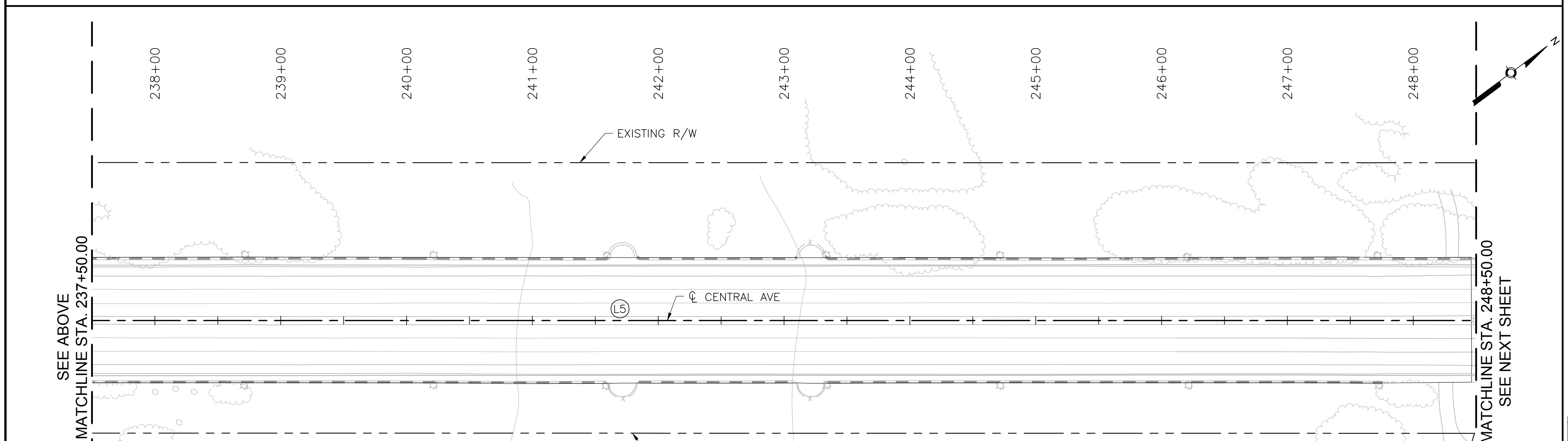
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	11	62





CENTRAL AVE ALIGNMENT LINE & CURVE TABLE						
NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
C3	STA 221+32.15	319.94'	24°17'07.54"	1487.00'	N62°52'13.20"E	630.28'
L4	STA 227+62.43				N50°43'39.43"E	135.73
C4	STA 228+98.16	373.29'	14°11'08.70"	3000.00'	N43°38'05.08"E	742.76'
L5	STA 236+40.92				N36°32'30.73"E	1300.15

0 50' 100'

CENTRAL AVE

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE:
INSPECTOR'S ACCEPTANCE BY	DATE:
FIELD VERIFICATION BY	DATE:
DRAWINGS CORRECTED BY	DATE:

MICRO-FILM INFORMATION

RECORDED BY	DATE:
NO.	

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

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02/2015

NO.	DATE	REMARKS	BY

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DESIGN

DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
CHECKED BY: EP DATE: 2/19/2015

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ABQ RIDE

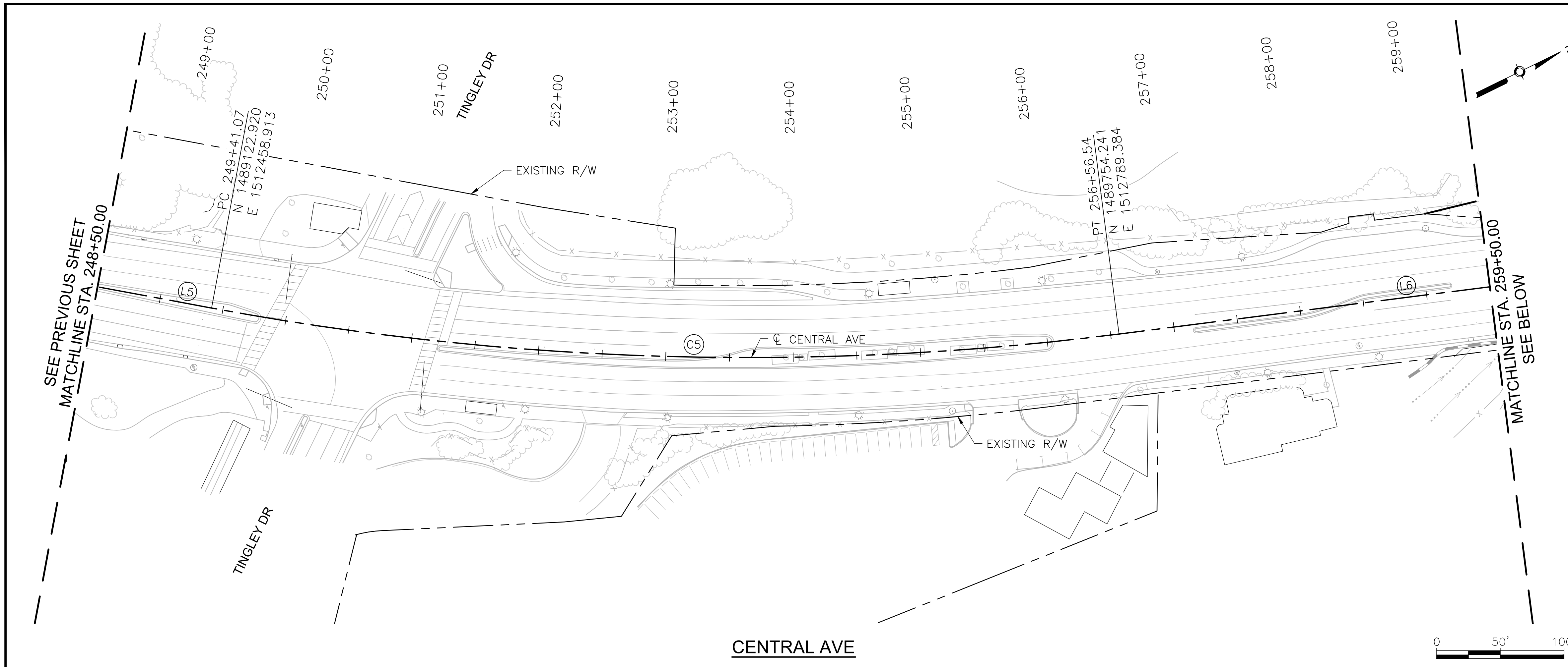
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

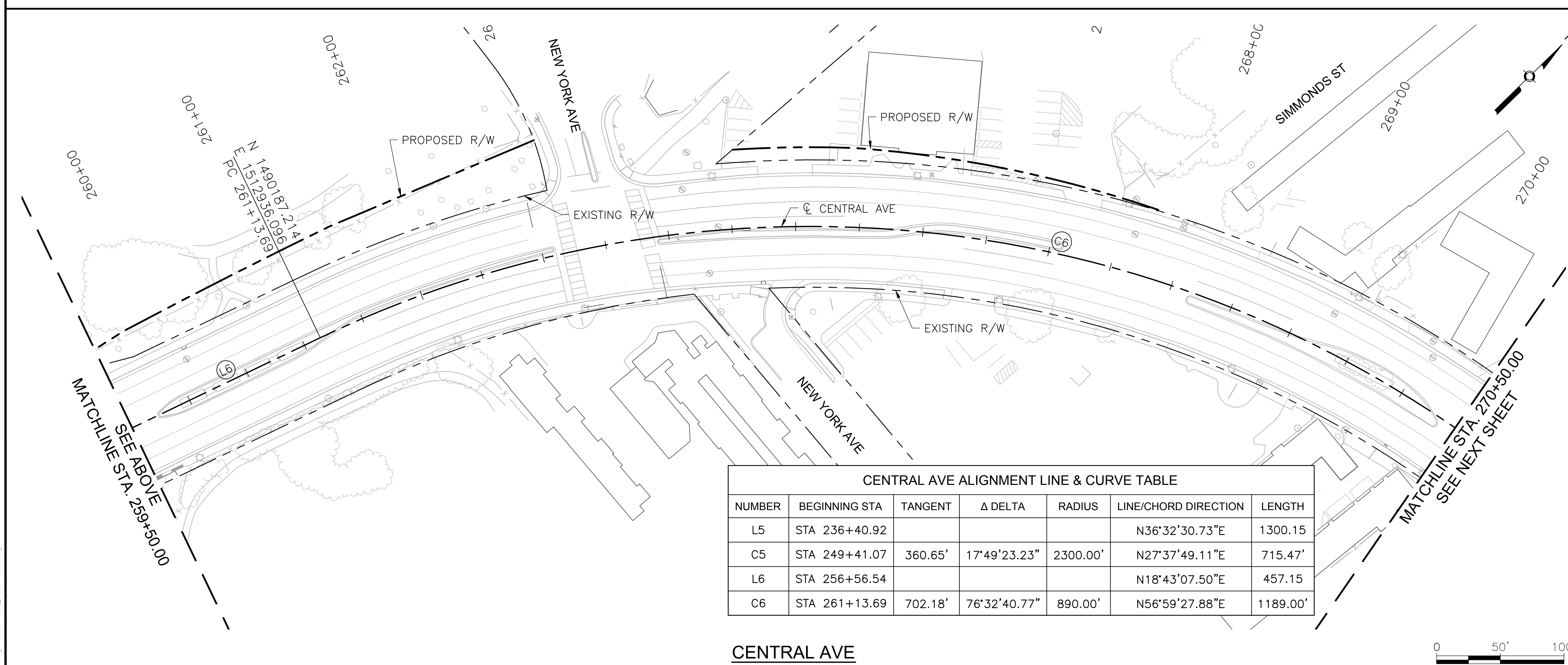
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	12	62

Date: 19 Feb 2015 - 2:35pm User: amgutier
Drawing Name: SC_PL01-08.dwg





CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L5	STA 236+40.92				N36°32'30.73"E	1300.15
C5	STA 249+41.07	360.65'	17°49'23.23"	2300.00'	N27°37'49.11"E	715.47'
L6	STA 256+56.54				N18°43'07.50"E	457.15
C6	STA 261+13.69	702.18'	76°32'40.77"	890.00'	N56°59'27.88"E	1189.00'

AS BUILT INFORMATION

CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO–FILM INFORMATION

RECORDED BY — DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5–K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

30% REVIEW

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NOT FOR CONSTRUCTION
02/2015

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY: ARG/RC DATE: 2/19/2015
DRAWN BY: ARG/RC DATE: 2/19/2015
CHECKED BY: MG DATE: 2/19/2015

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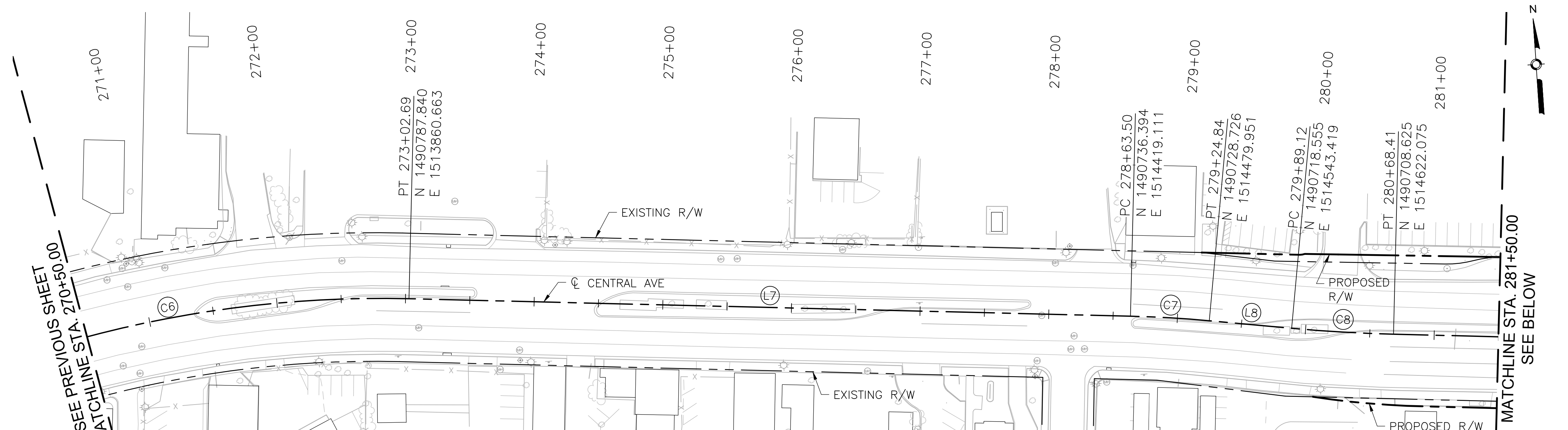
ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	13	62

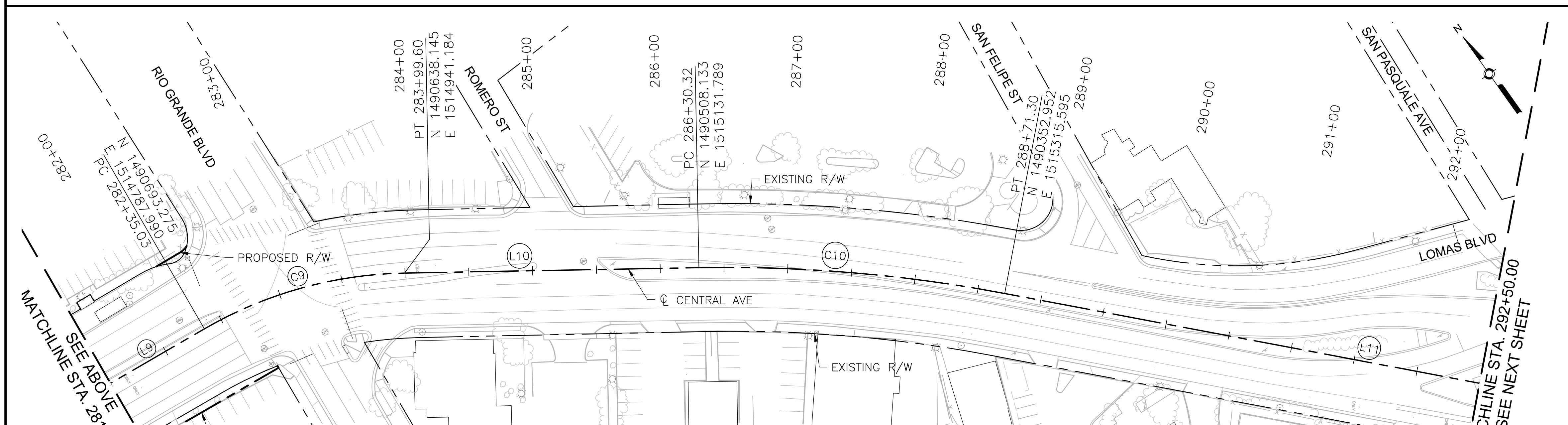


CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
C6	STA 261+13.69	702.18'	76°32'40.77"	890.00'	N56°59'27.88"E	1189.00'
L7	STA 273+02.69				S84°44'11.73"E	560.81
C7	STA 278+63.50	30.68'	3°50'25.98"	915.00'	S82°48'58.74"E	61.33'
L8	STA 279+24.84				S80°53'45.75"E	64.28
C8	STA 279+89.12	39.66'	3°49'04.21"	1190.00'	S82°48'17.86"E	79.29'

CENTRAL AVE

0 50' 100'



CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L9	STA 280+68.41				S84°42'49.97"E	166.62
C9	STA 282+35.03	84.09'	29°00'42.76"	325.00'	S70°12'28.59"E	164.56'
L10	STA 283+99.60				S55°42'07.21"E	230.72
C10	STA 286+30.32	120.91'	11°45'01.84"	1175.00'	S49°49'36.29"E	240.98'
L11	STA 288+71.30				S43°57'05.37"E	524.32

CENTRAL AVE

0 50' 100'

AS BUILT INFORMATION

CONTRACTOR	DATE:
WORK STAKED BY	DATE:
INSPECTOR'S ACCEPTANCE BY	DATE:
FIELD VERIFICATION BY	DATE:
DRAWINGS CORRECTED BY	DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:

NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.

NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

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NOT FOR CONSTRUCTION
02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: ARG/ZS DATE: 2/19/2015
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CHECKED BY: EP DATE: 2/19/2015

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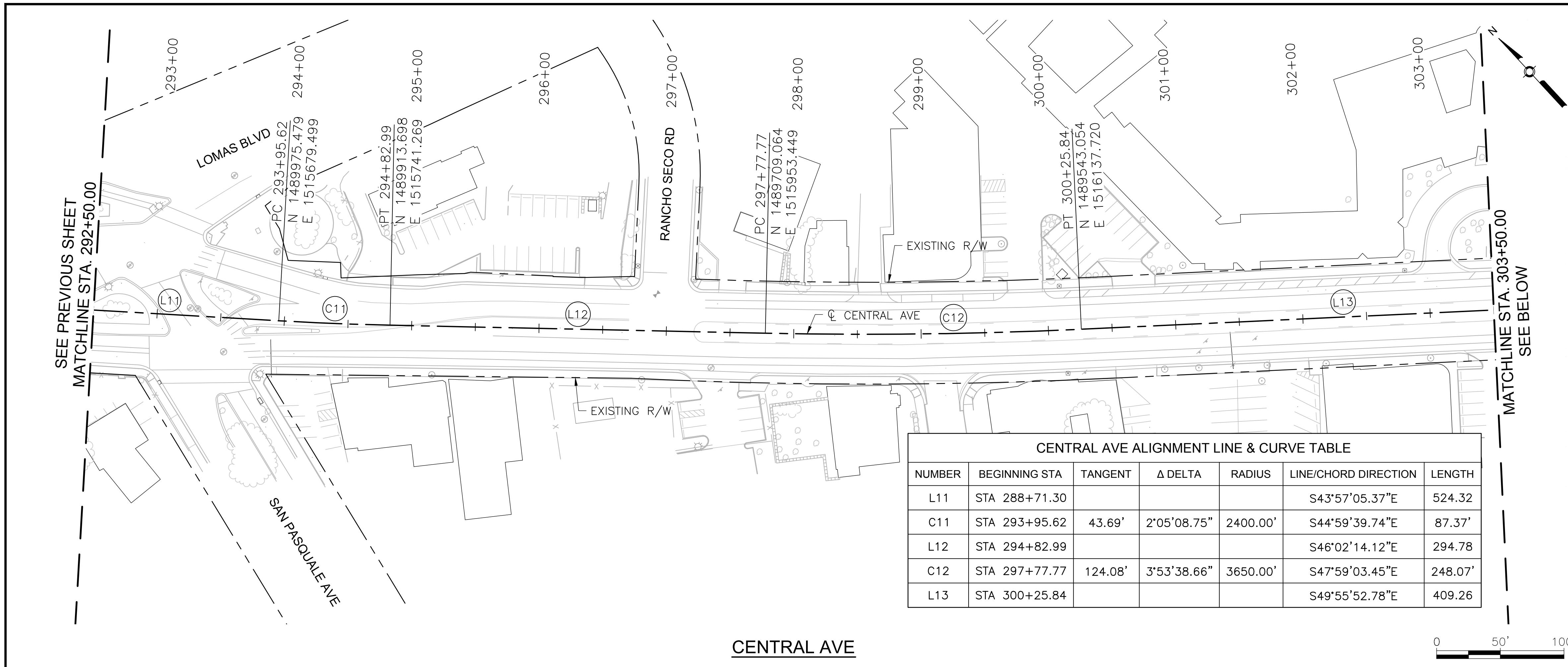
ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

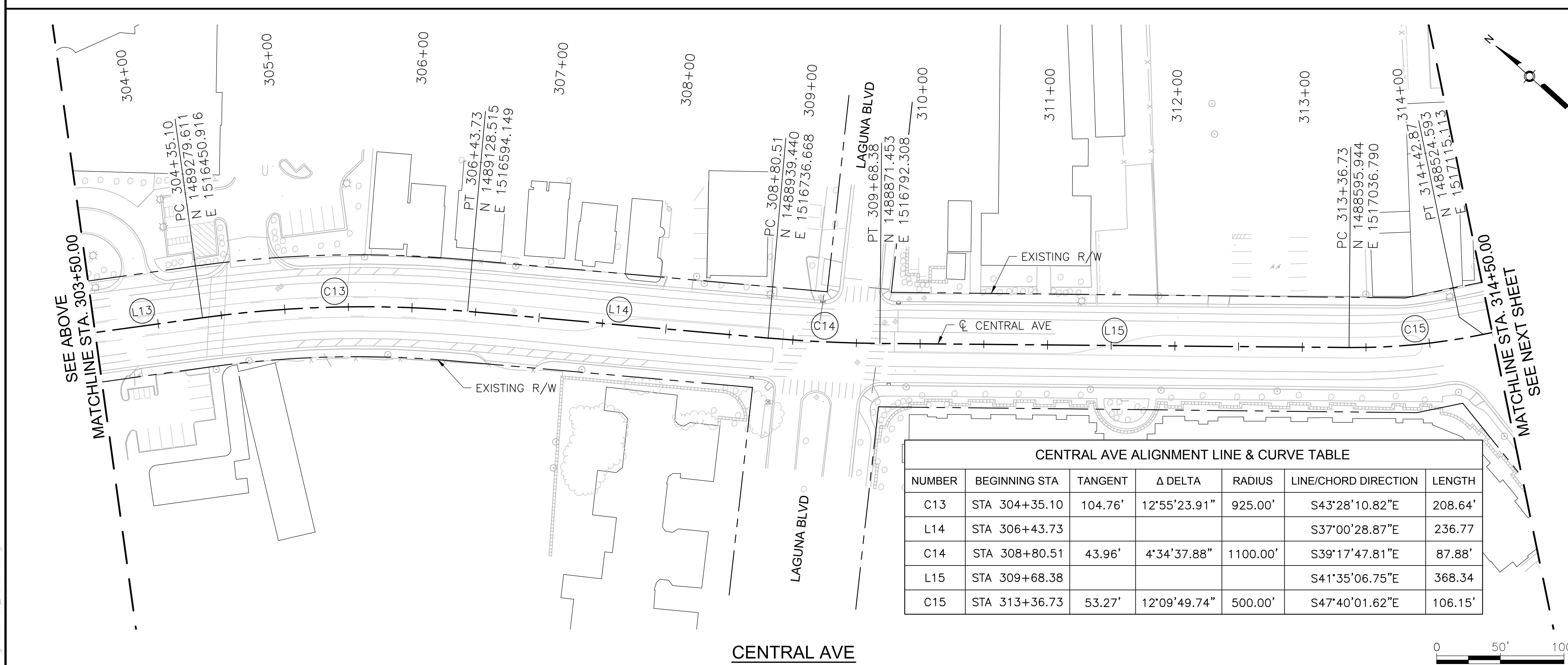
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	14	62



CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L11	STA 288+71.30				S43°57'05.37"E	524.32
C11	STA 293+95.62	43.69'	2°05'08.75"	2400.00'	S44°59'39.74"E	87.37'
L12	STA 294+82.99				S46°02'14.12"E	294.78
C12	STA 297+77.77	124.08'	3°53'38.66"	3650.00'	S47°59'03.45"E	248.07'
L13	STA 300+25.84				S49°55'52.78"E	409.26

CENTRAL AVE



CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
C13	STA 304+35.10	104.76'	12°55'23.91"	925.00'	S43°28'10.82"E	208.64'
L14	STA 306+43.73				S37°00'28.87"E	236.77
C14	STA 308+80.51	43.96'	4°34'37.88"	1100.00'	S39°17'47.81"E	87.88'
L15	STA 309+68.38				S41°35'06.75"E	368.34
C15	STA 313+36.73	53.27'	12°09'49.74"	500.00'	S47°40'01.62"E	106.15'

CENTRAL AVE

AS BUILT INFORMATION

CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO–FILM INFORMATION

RECORDED BY DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5–K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

30% REVIEW

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NOT FOR CONSTRUCTION
02/2015

REVISIONS			
NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
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ABQRIDE
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TRANSIT DEPARTMENT
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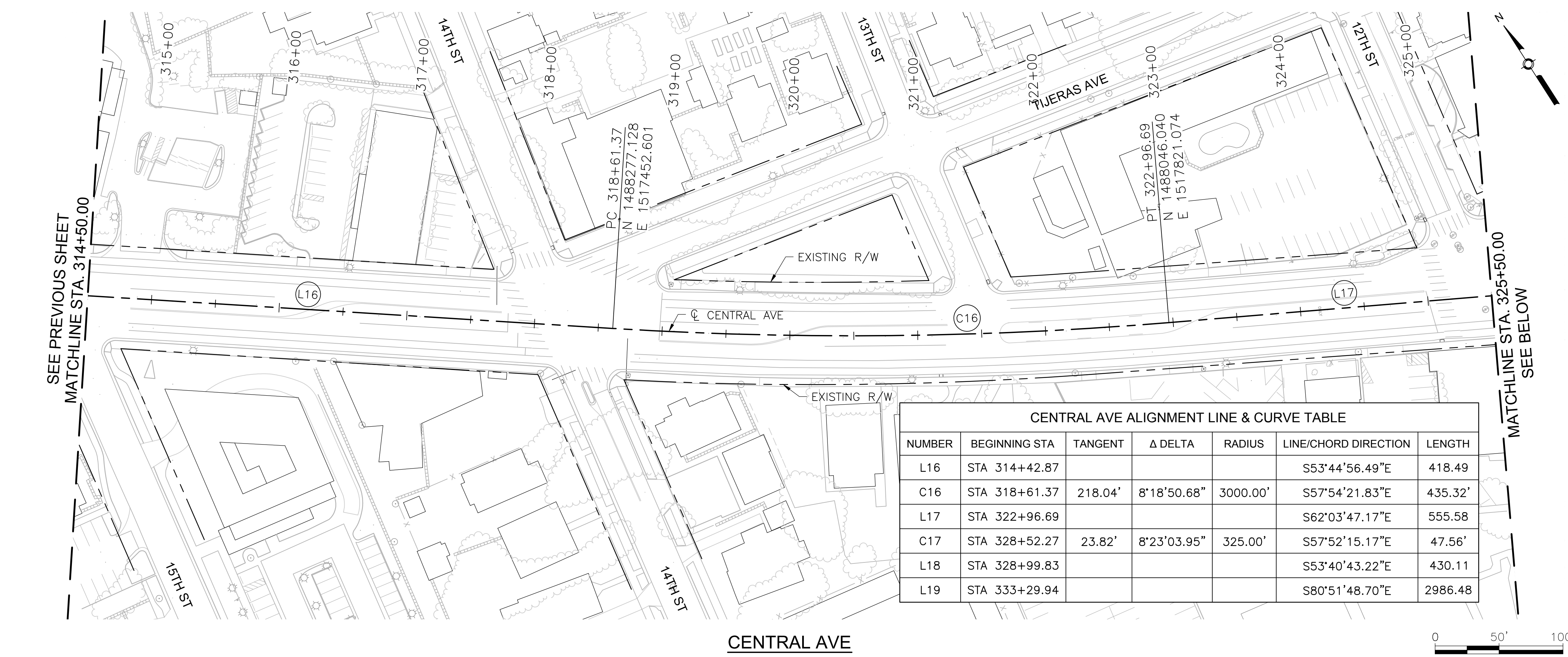
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

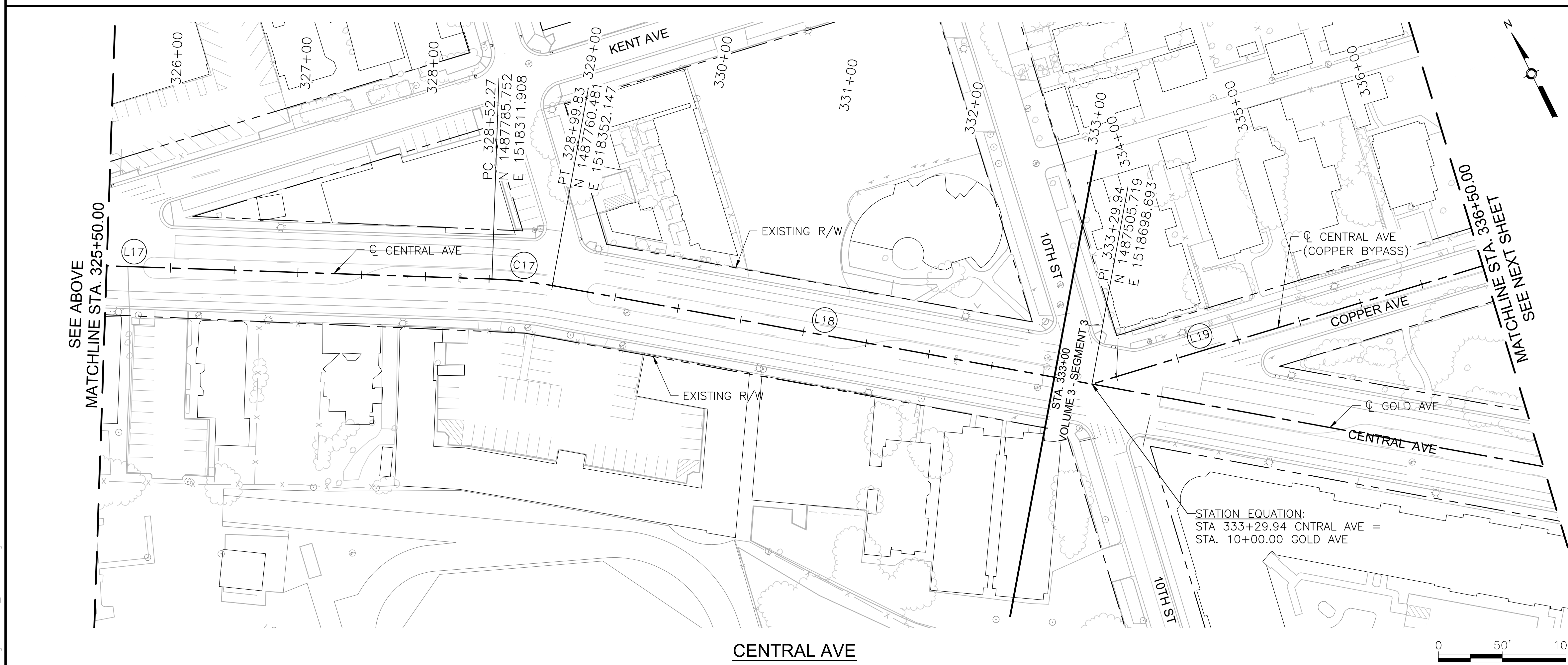
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	15	62



CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L16	STA 314+42.87				S53°44'56.49"E	418.49
C16	STA 318+61.37	218.04'	8°18'50.68"	3000.00'	S57°54'21.83"E	435.32'
L17	STA 322+96.69				S62°03'47.17"E	555.58
C17	STA 328+52.27	23.82'	8°23'03.95"	325.00'	S57°52'15.17"E	47.56'
L18	STA 328+99.83				S53°40'43.22"E	430.11
L19	STA 333+29.94				S80°51'48.70"E	2986.48



AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION

RECORDED BY — DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
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SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

30% REVIEW

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NOT FOR CONSTRUCTION
02/2015

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
CHECKED BY: EP DATE: 2/19/2015

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ABQRIDE

CITY OF ALBUQUERQUE
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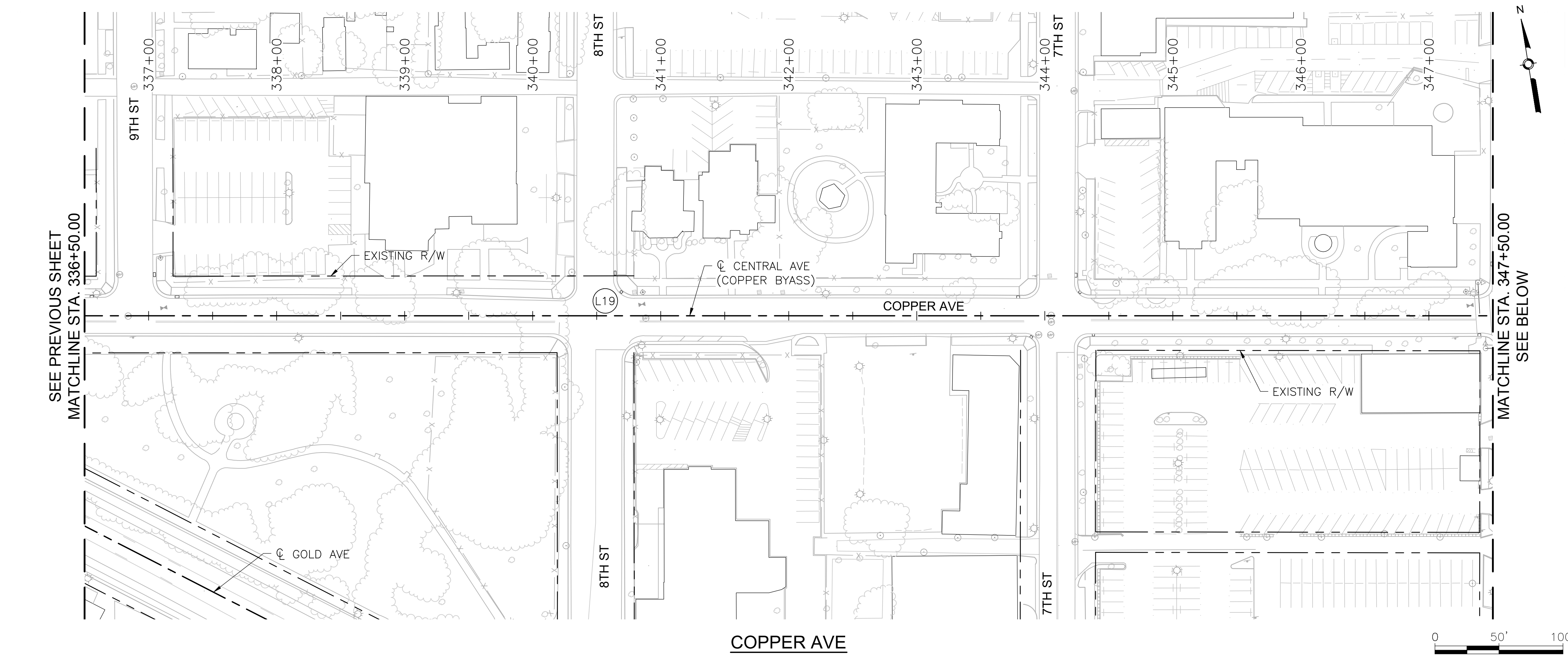
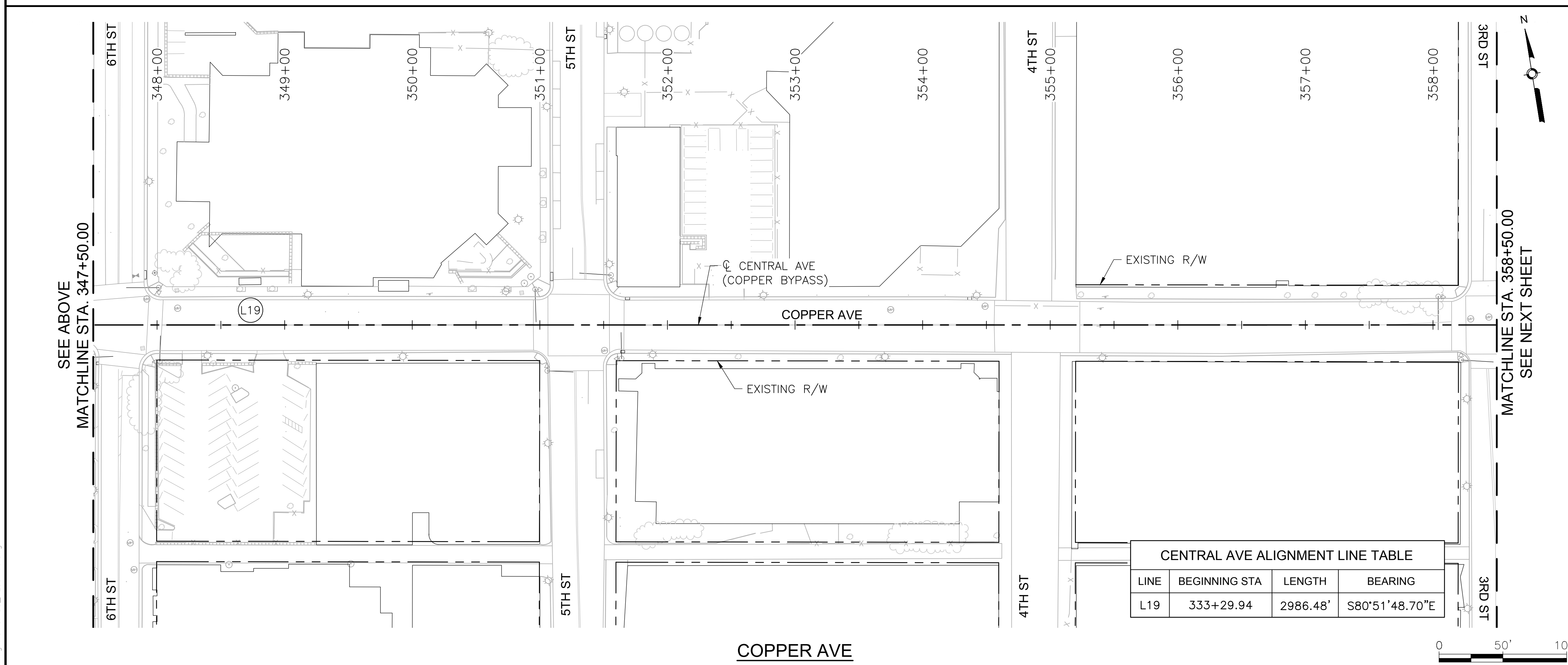
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	16	62

Date: 19 Feb 2015 - 2:42pm User: amguller
Drawing Name: SC_PL09-16.dwg





CENTRAL AVE ALIGNMENT LINE TABLE

LINE	BEGINNING STA	LENGTH	BEARING
L19	333+29.94	2986.48'	S80°51'48.70"E

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
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AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION

RECORDED BY — DATE:
NO.

30% REVIEW

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02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: ARG/ZS — DATE: 2/19/2015
DRAWN BY: ZS — DATE: 2/19/2015
CHECKED BY: EP — DATE: 2/19/2015

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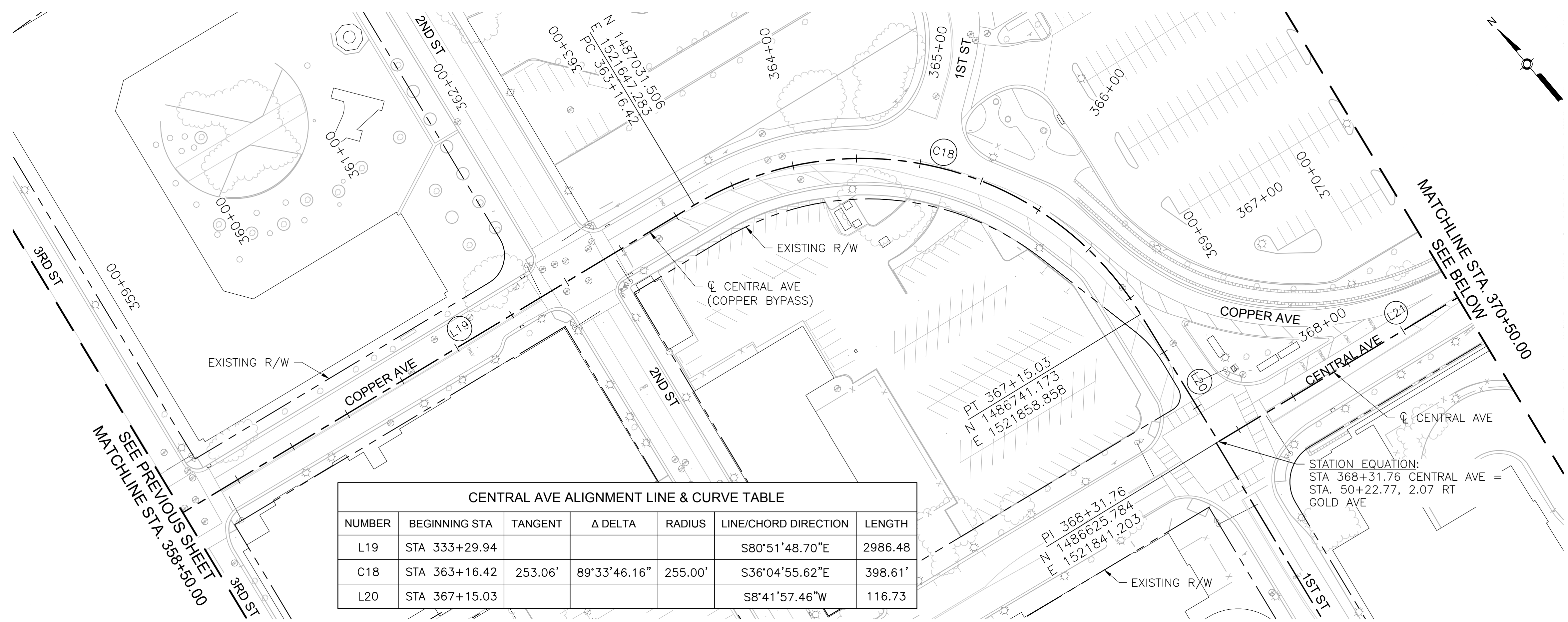
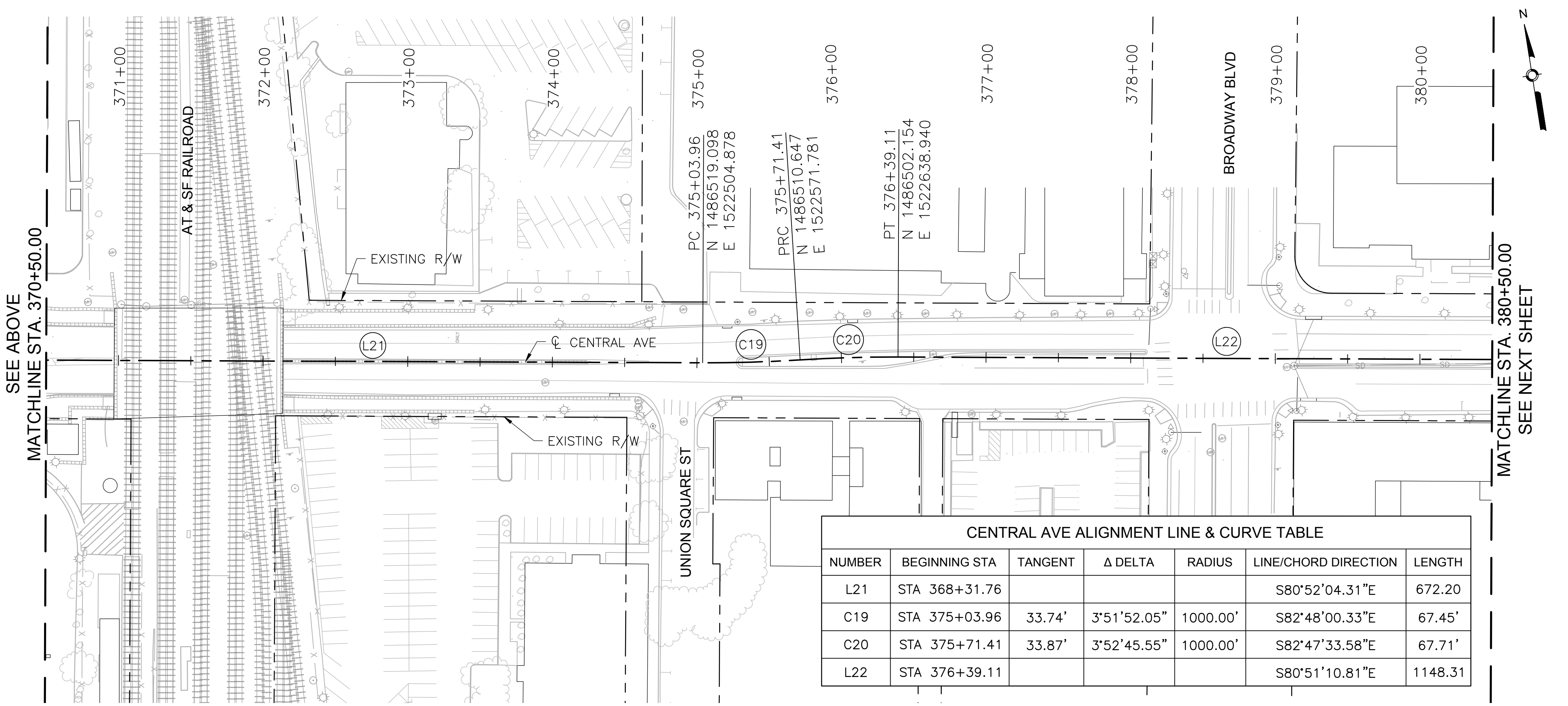
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	17	62



COPPER AVE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L19	STA 333+29.94				S80°51'48.70"E	2986.48
C18	STA 363+16.42	253.06'	89°33'46.16"	255.00'	S36°04'55.62"E	398.61'
L20	STA 367+15.03				S8°41'57.46"W	116.73

CENTRAL AVE ALIGNMENT LINE & CURVE TABLE



CENTRAL AVE

CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L21	STA 368+31.76				S80°52'04.31"E	672.20
C19	STA 375+03.96	33.74'	3°51'52.05"	1000.00'	S82°48'00.33"E	67.45'
C20	STA 375+71.41	33.87'	3°52'45.55"	1000.00'	S82°47'33.58"E	67.71'
L22	STA 376+39.11				S80°51'10.81"E	1148.31

AS BUILT INFORMATION

CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION

RECORDED BY — DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
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SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

30% REVIEW

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02/2015

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DESIGN
DESIGNED BY: ARG/ZS DATE: 2/19/2015
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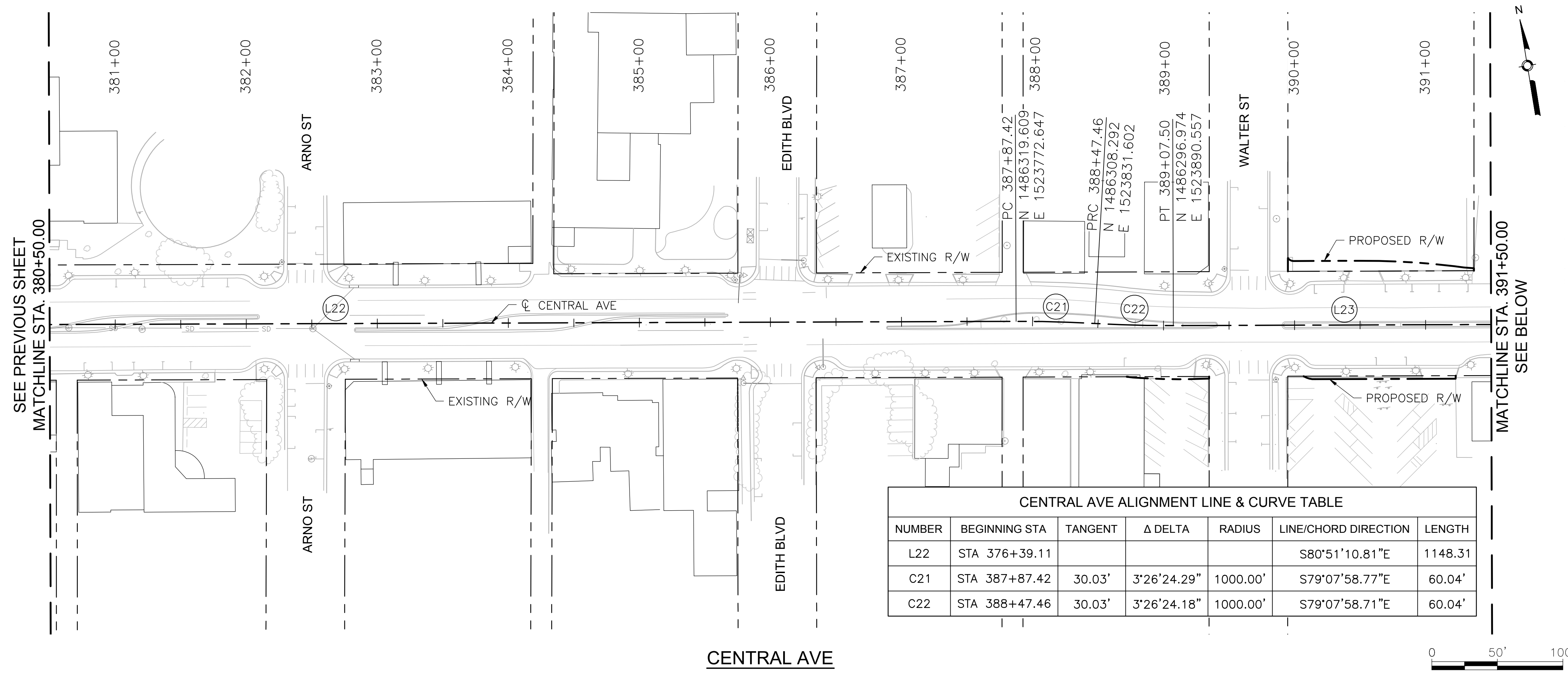
ABQRIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

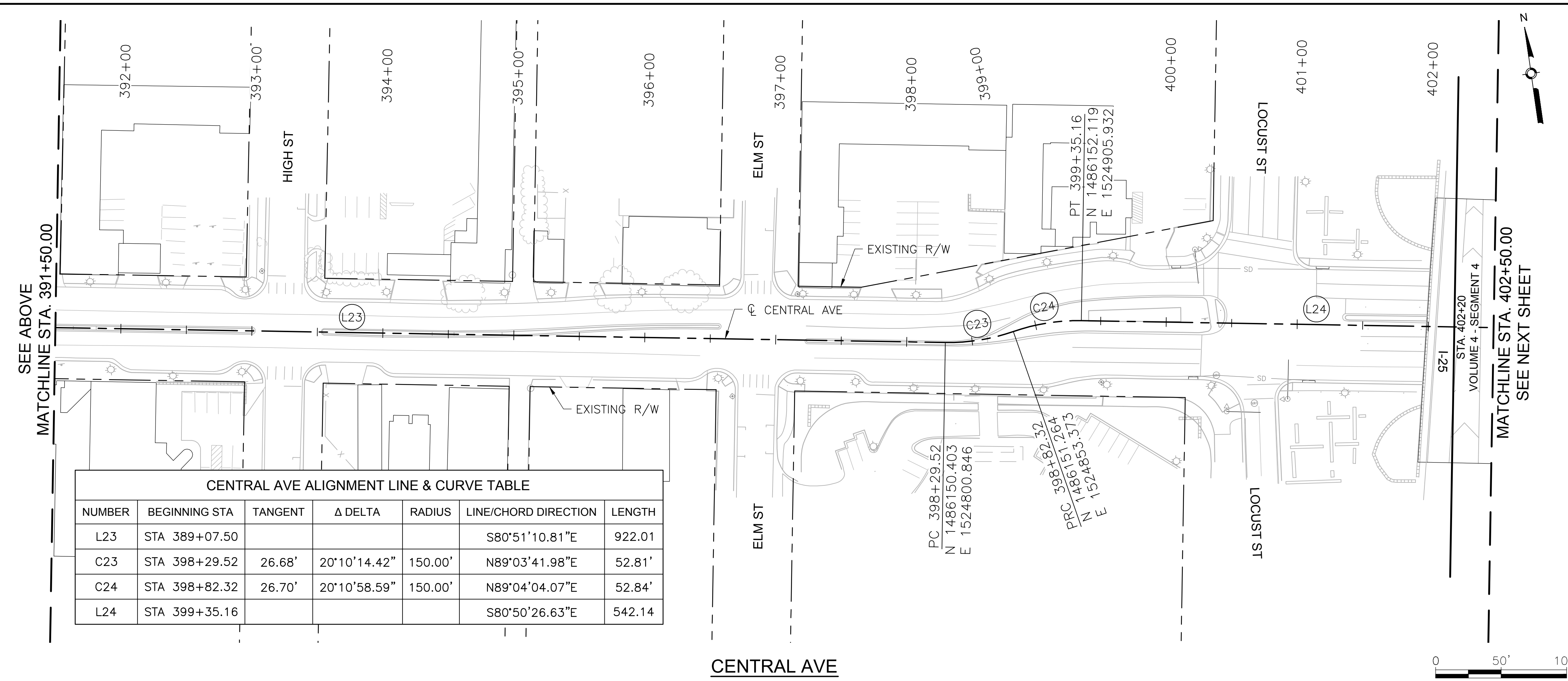
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	18	62

Date: 19 Feb 2015 - 2:45pm User: cmguller
Drawing Name: SP_PL09-16.dwg



CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L22	STA 376+39.11				S80°51'10.81"E	1148.31
C21	STA 387+87.42	30.03'	3°26'24.29"	1000.00'	S79°07'58.77"E	60.04'
C22	STA 388+47.46	30.03'	3°26'24.18"	1000.00'	S79°07'58.71"E	60.04'



CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L23	STA 389+07.50				S80°51'10.81"E	922.01
C23	STA 398+29.52	26.68'	20°10'14.42"	150.00'	N89°03'41.98"E	52.81'
C24	STA 398+82.32	26.70'	20°10'58.59"	150.00'	N89°04'04.07"E	52.84'
L24	STA 399+35.16				S80°50'26.63"E	542.14

AS BUILT INFORMATION

CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION

RECORDED BY — DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

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02/2015

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
CHECKED BY: EP DATE: 2/19/2015

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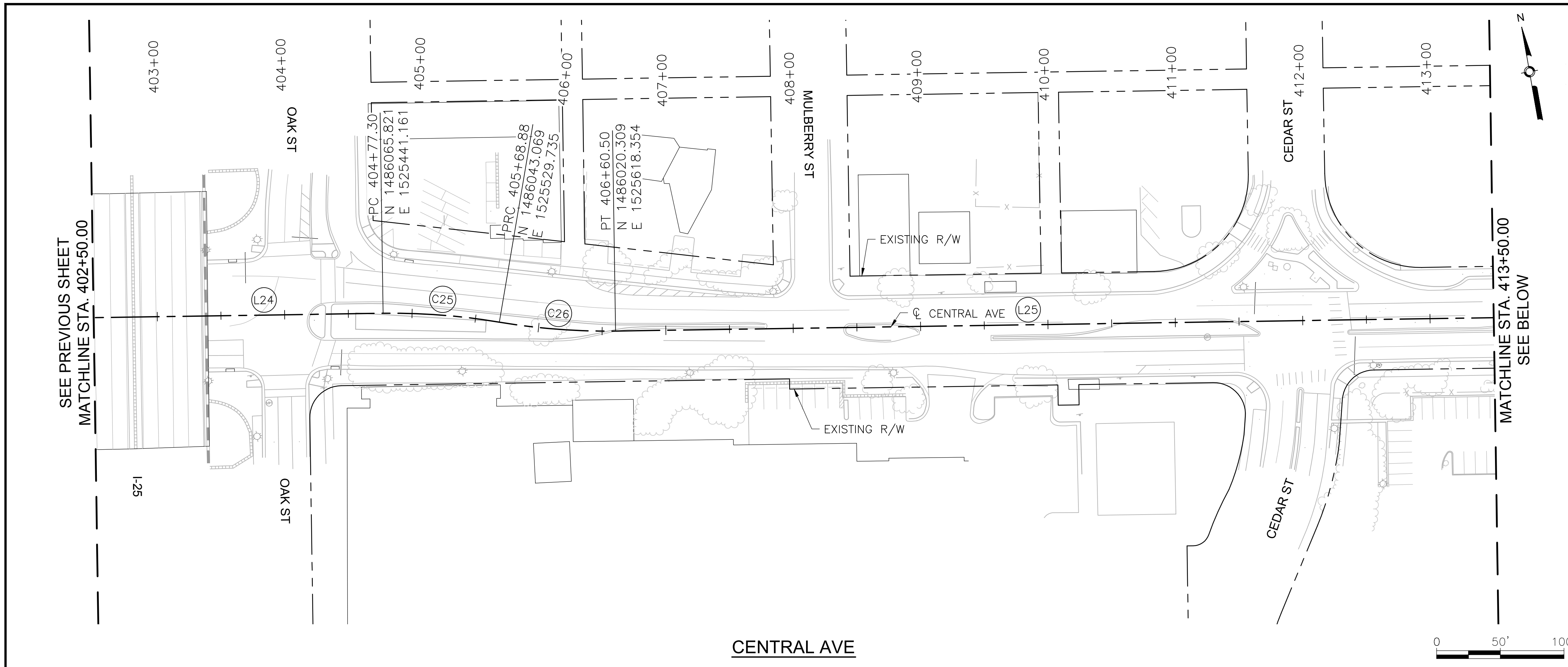
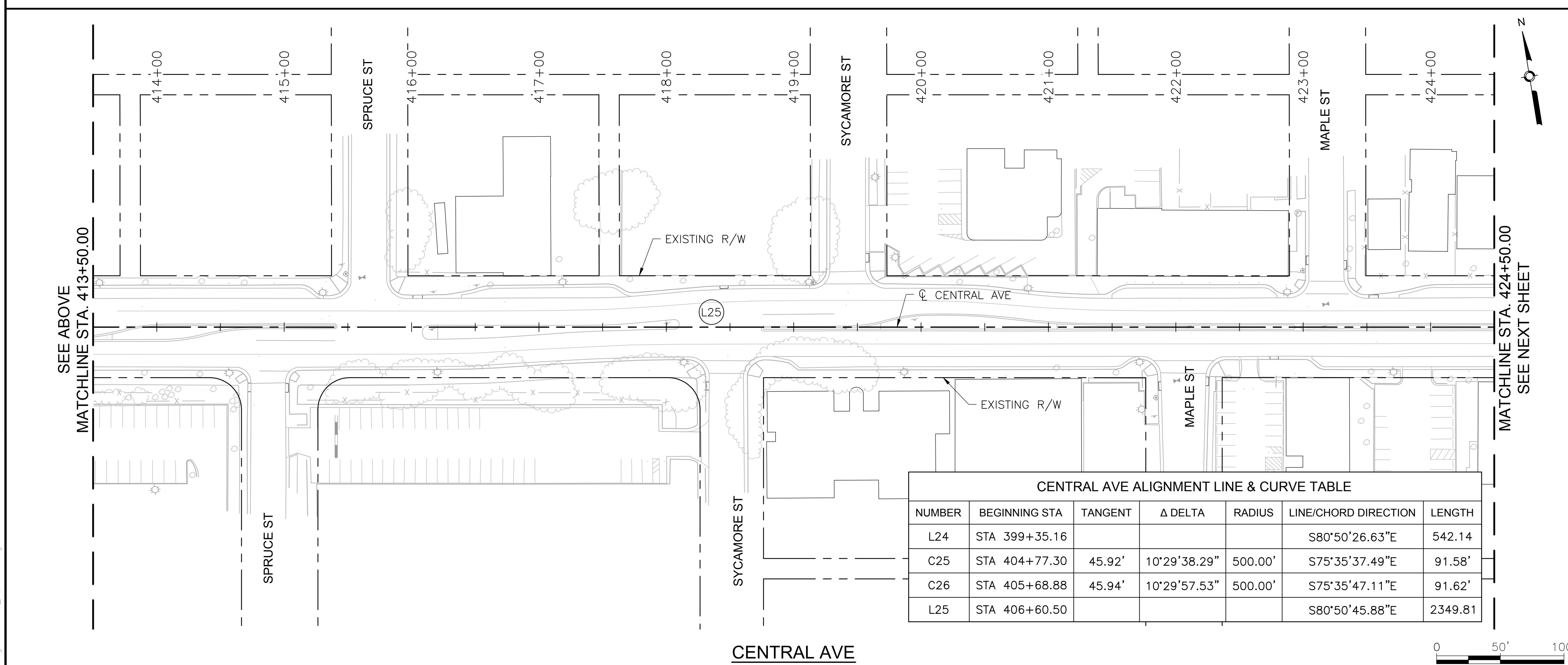
ABQRIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	19	62





CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L24	STA 399+35.16				S80°50'26.63"E	542.14
C25	STA 404+77.30	45.92'	10°29'38.29"	500.00'	S75°35'37.49"E	91.58'
C26	STA 405+68.88	45.94'	10°29'57.53"	500.00'	S75°35'47.11"E	91.62'
L25	STA 406+60.50				S80°50'45.88"E	2349.81

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
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DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
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BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
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SURVEY INFORMATION

FIELD NOTES

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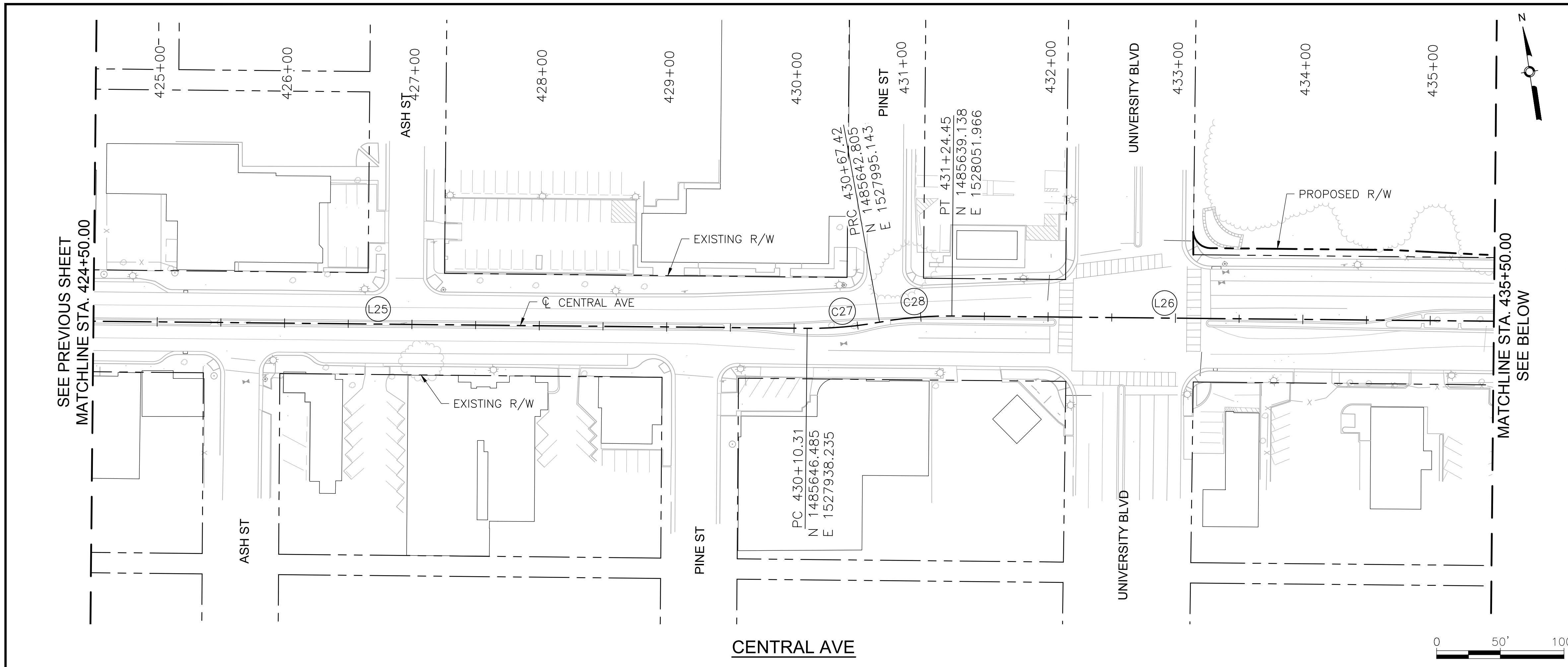
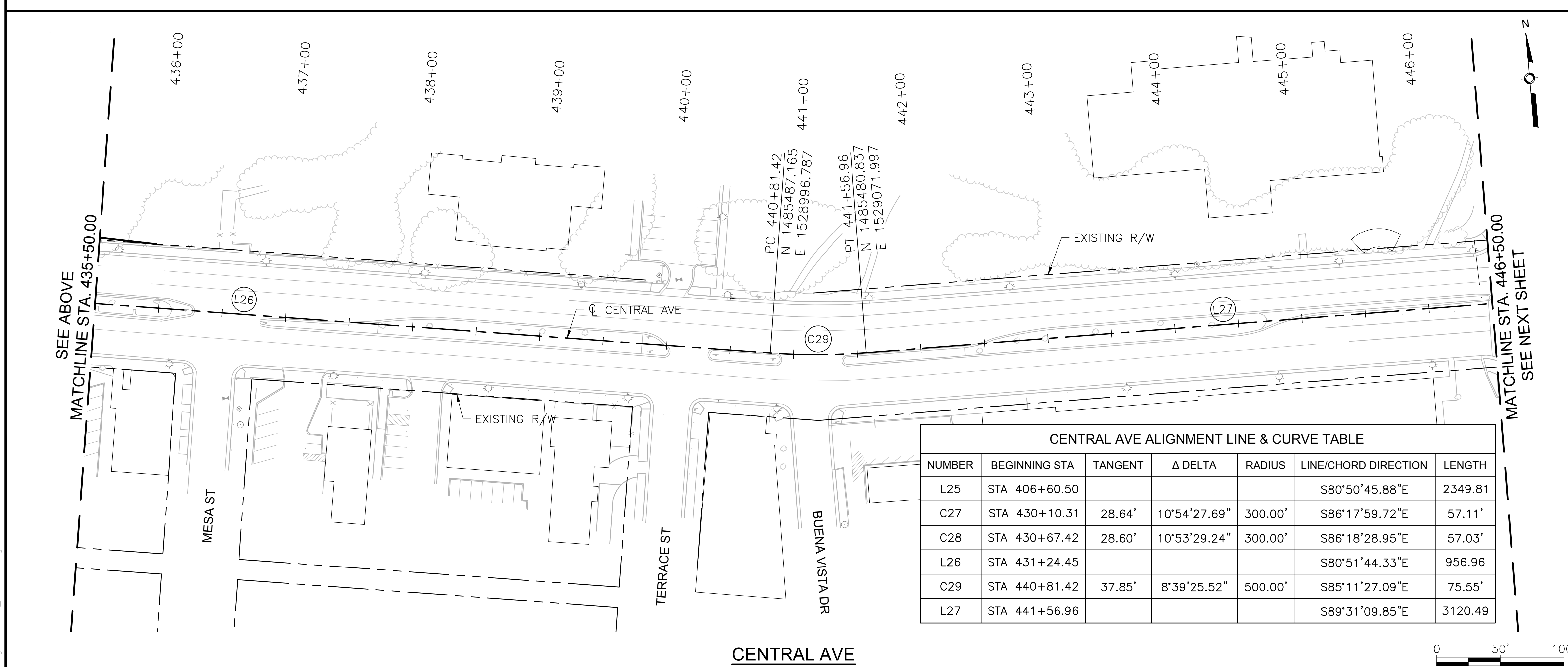
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	20	62





CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L25	STA 406+60.50				S80°50'45.88"E	2349.81
C27	STA 430+10.31	28.64'	10°54'27.69"	300.00'	S86°17'59.72"E	57.11'
C28	STA 430+67.42	28.60'	10°53'29.24"	300.00'	S86°18'28.95"E	57.03'
L26	STA 431+24.45				S80°51'44.33"E	956.96
C29	STA 440+81.42	37.85'	8°39'25.52"	500.00'	S85°11'27.09"E	75.55'
L27	STA 441+56.96				S89°31'09.85"E	3120.49

AS BUILT INFORMATION

CONTRACTOR		DATE:
WORK STAKED BY		DATE:
INSPECTOR'S ACCEPTANCE BY		DATE:
FIELD VERIFICATION BY		DATE:
DRAWINGS CORRECTED BY		DATE:

MICRO–FILM INFORMATION

RECORDED BY DATE:

NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
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ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

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NO.	DATE	REMARKS	BY

DESIGN

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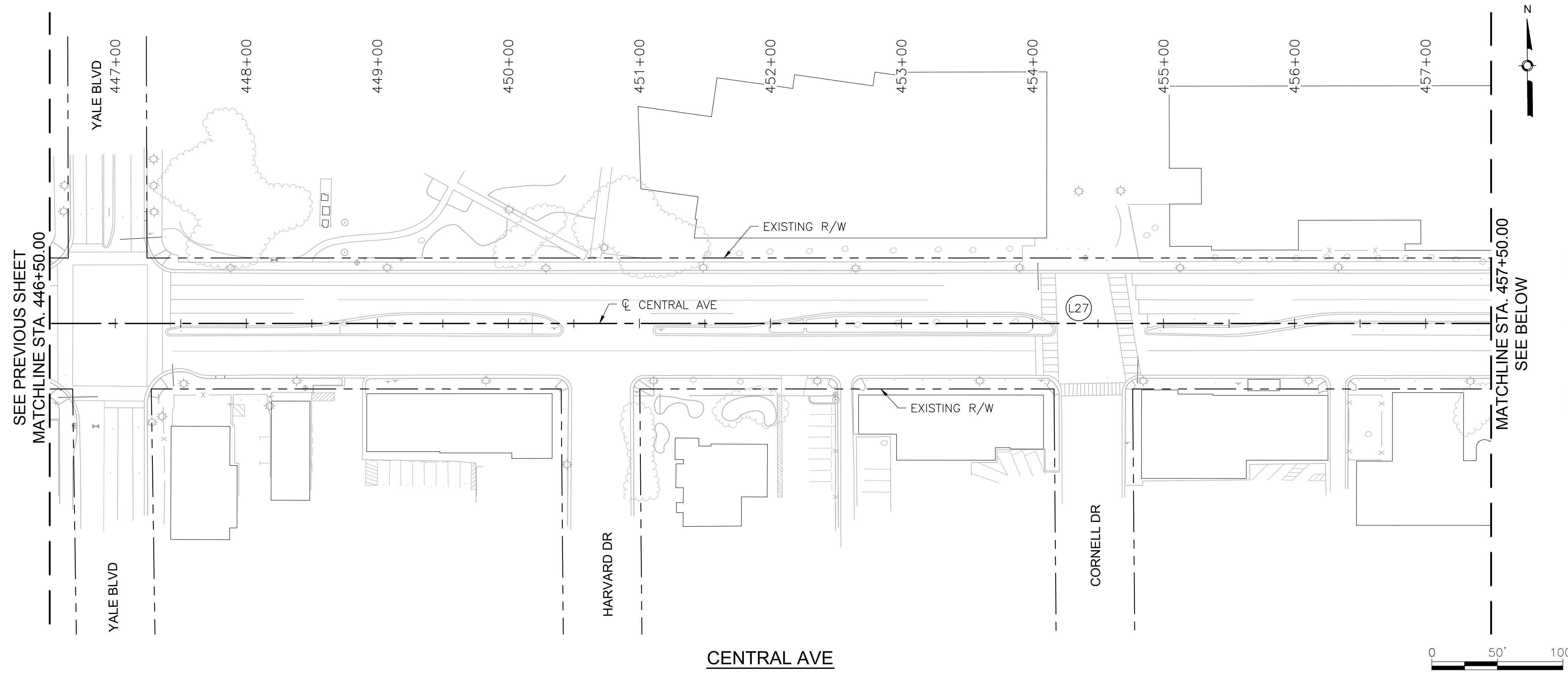
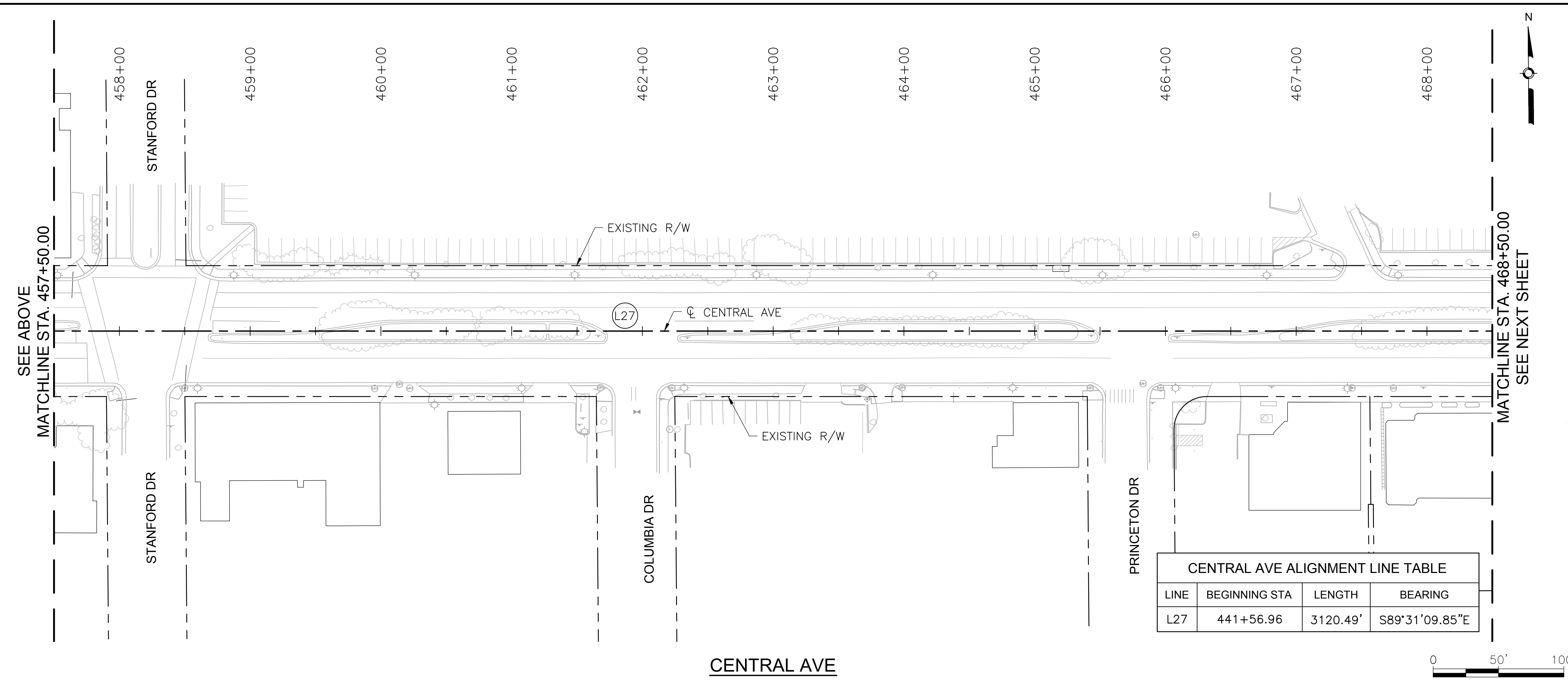
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	21	62





CENTRAL AVE ALIGNMENT LINE TABLE

LINE	BEGINNING STA	LENGTH	BEARING
L27	441+56.96	3120.49'	S89°31'09.85"E

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION

RECORDED BY — DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
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ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

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02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: ARG/ZS — DATE: 2/19/2015
DRAWN BY: ZS — DATE: 2/19/2015
CHECKED BY: EP — DATE: 2/19/2015

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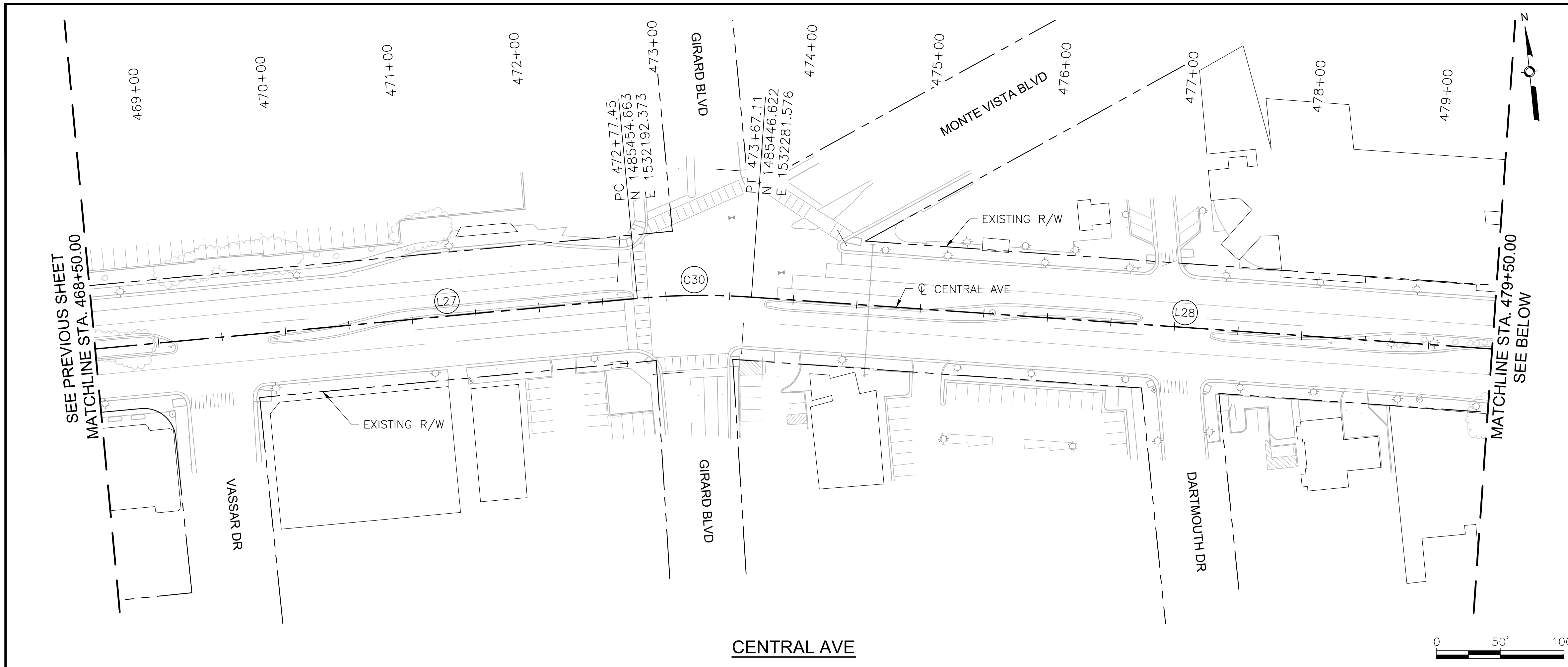
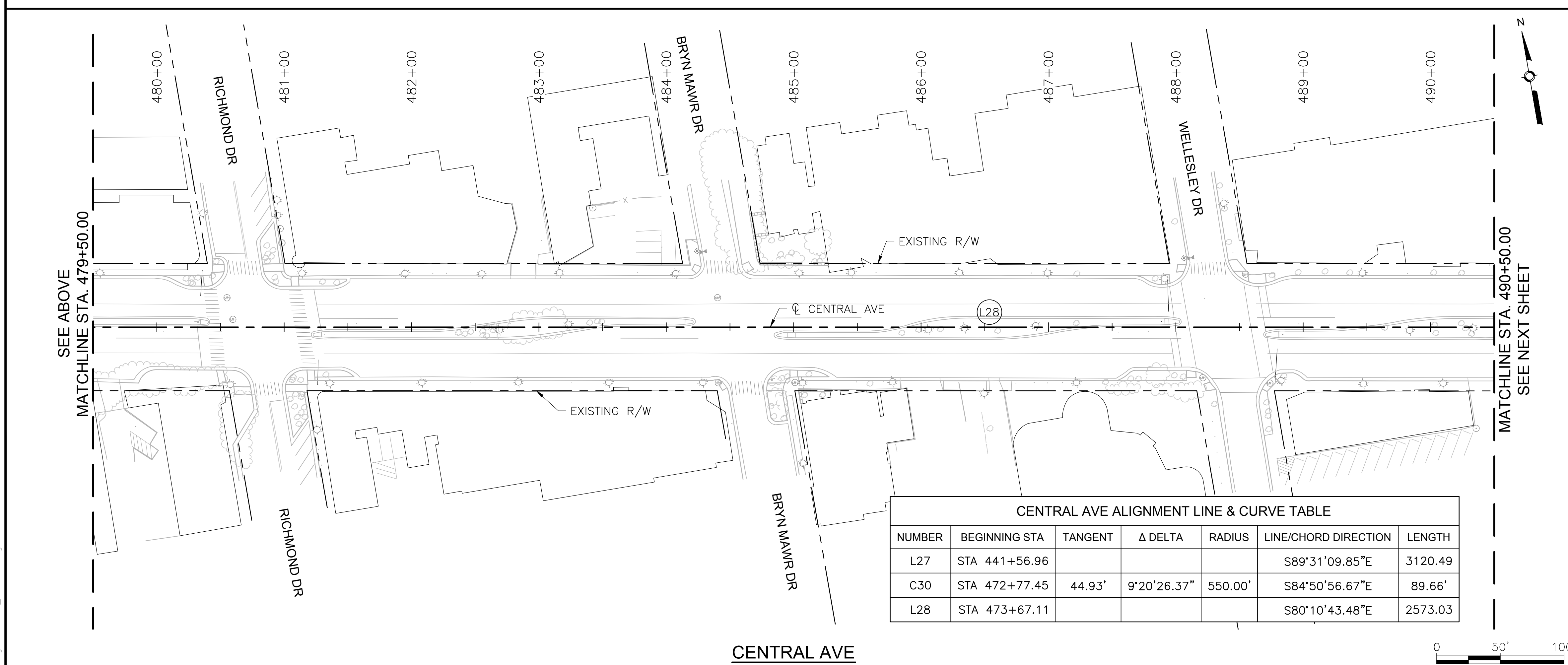
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	22	62





CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L27	STA 441+56.96				S89°31'09.85"E	3120.49
C30	STA 472+77.45	44.93'	9°20'26.37"	550.00'	S84°50'56.67"E	89.66'
L28	STA 473+67.11				S80°10'43.48"E	2573.03

AS BUILT INFORMATION

CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

30% REVIEW

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NOT FOR CONSTRUCTION
02/2015

REVISIONS

NO.	DATE	REMARKS	BY

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DESIGNED BY: ARG/ZS DATE: 2/19/2015
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TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	23	62

CENTRAL AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L28	STA 473+67.11				S80°10'43.48"E	2573.03
C31	STA 499+40.14	22.26'	2°07'31.63"	1200.00'	S81°14'29.30"E	44.52'
L29	STA 499+84.65				S82°18'15.11"E	11968.26

CENTRAL AVE

0 50' 100'

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
NO.

30% REVIEW

PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

NO.	DATE	REMARKS	BY

REVISIONS
DESIGN

DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
CHECKED BY: EP DATE: 2/19/2015

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CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	24	62

Date: 19 Feb 2015 - 2:54pm User: amguiler
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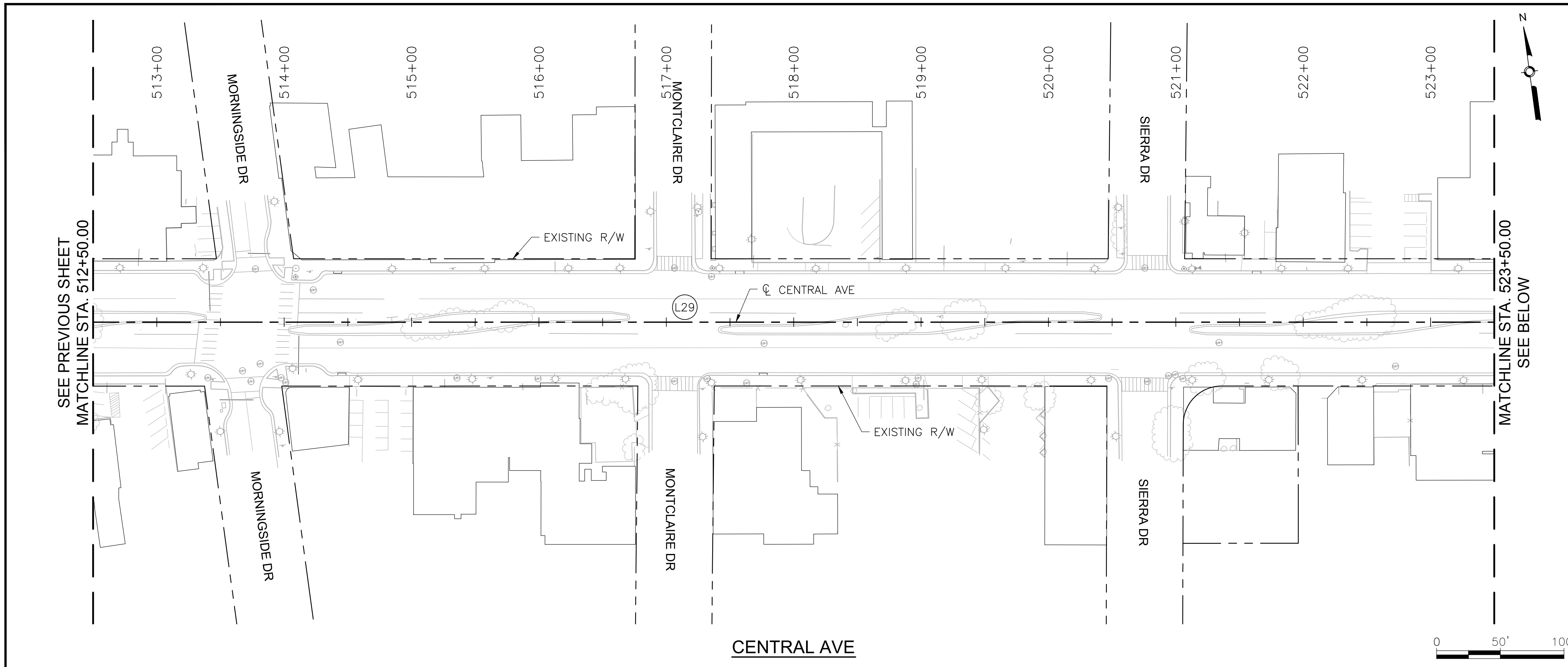

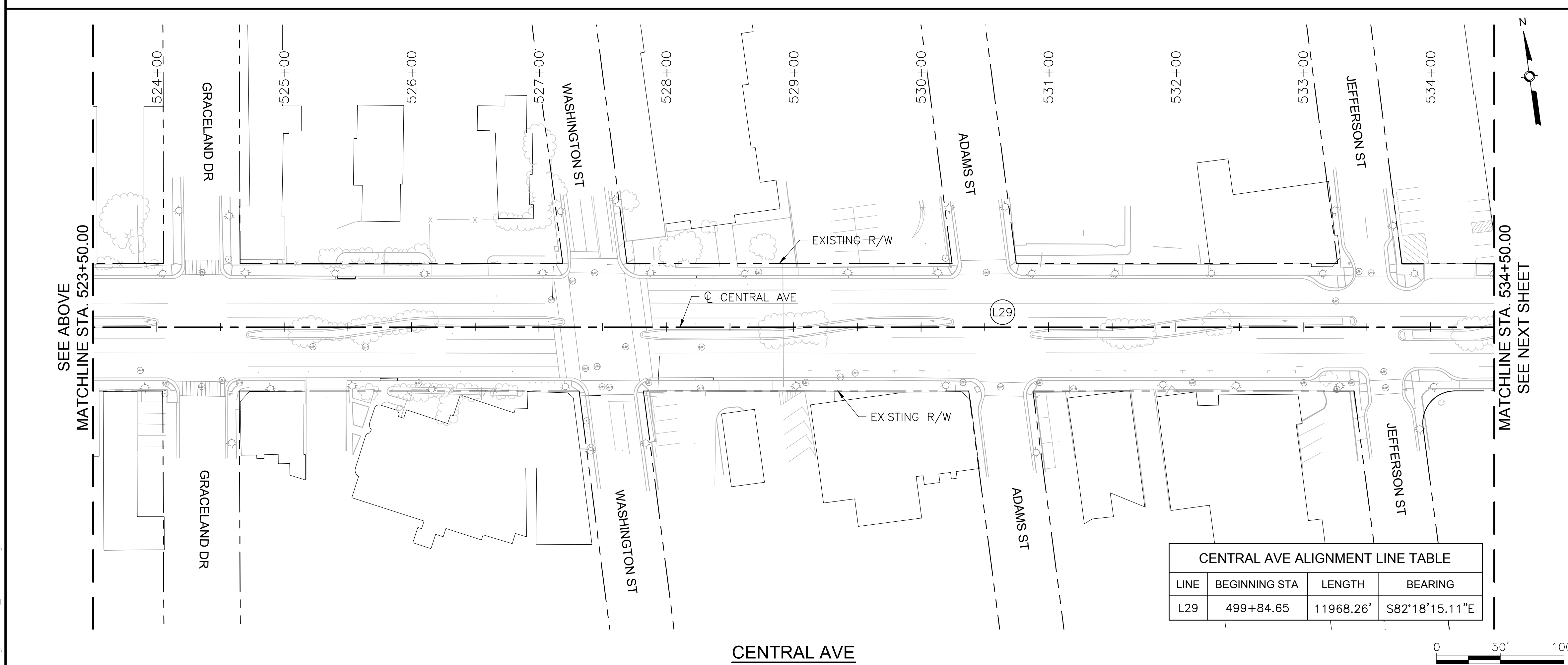

CENTRAL AVE ALIGNMENT LINE TABLE

LINE	BEGINNING STA	LENGTH	BEARING
L29	499+84.65	11968.26'	S82°18'15.11"E

AS BUILT INFORMATION

CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
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SURVEY INFORMATION

FIELD NOTES		
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DESIGN

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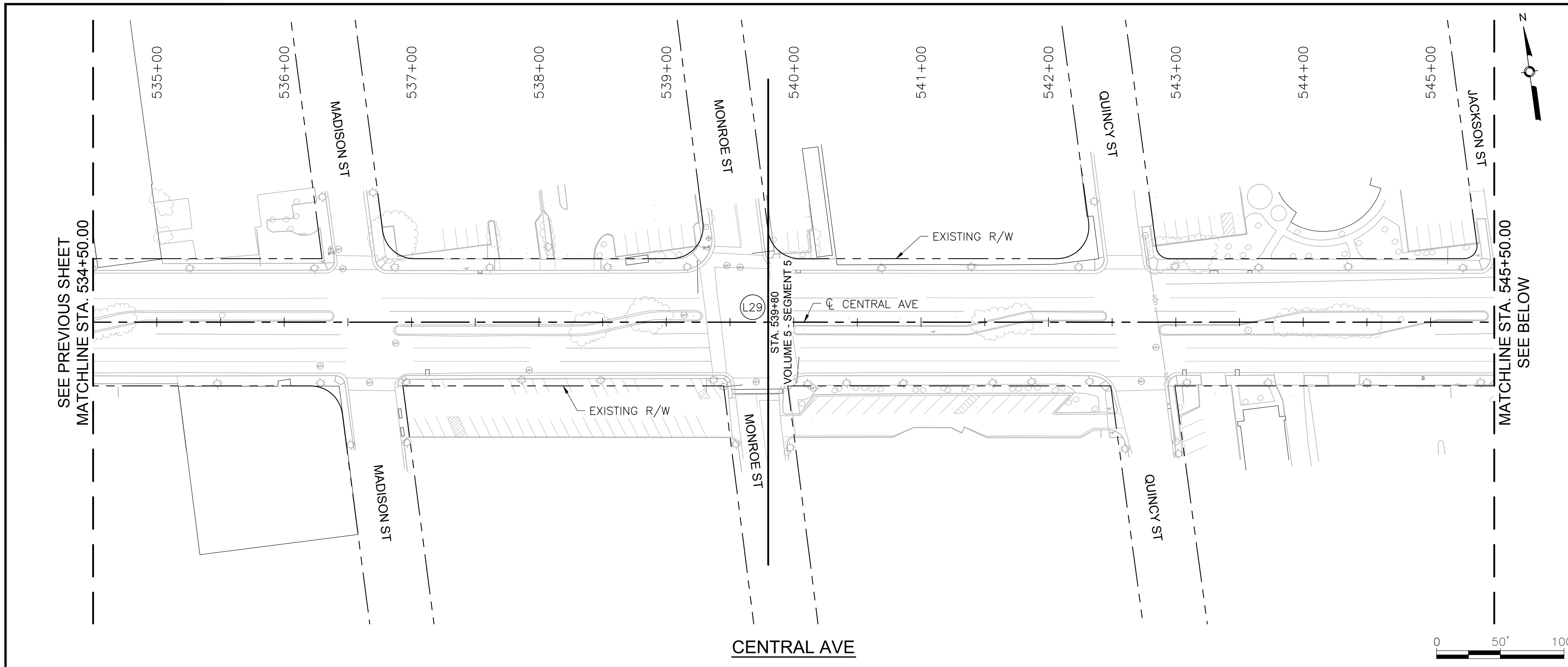
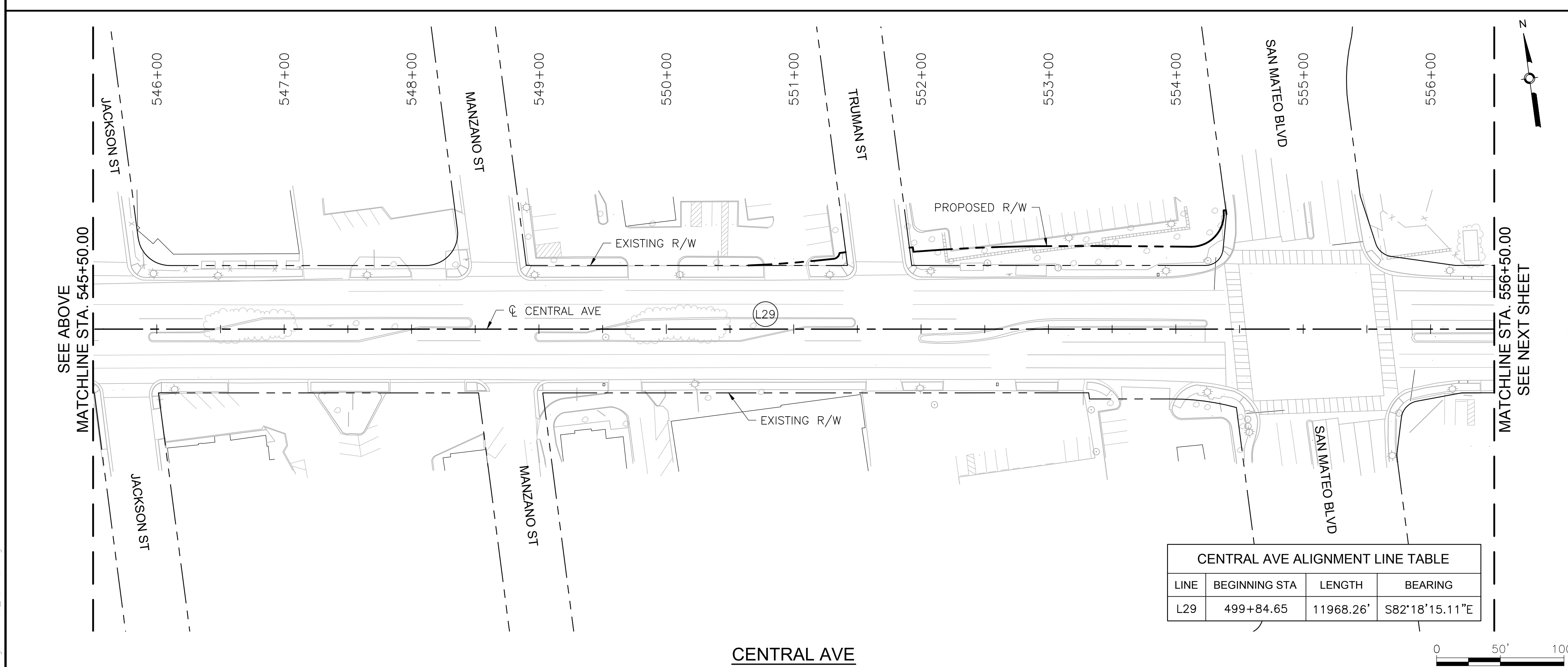
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	25	62

Date: 19 Feb 2015 - 2:56pm User: dmguller
Drawing Name: SP_P17-24.dwg





CENTRAL AVE ALIGNMENT LINE TABLE			
LINE	BEGINNING STA	LENGTH	BEARING
L29	499+84.65	11968.26'	S82°18'15.11"E

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE:
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FIELD VERIFICATION BY	DATE:
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MICRO-FILM INFORMATION

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BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
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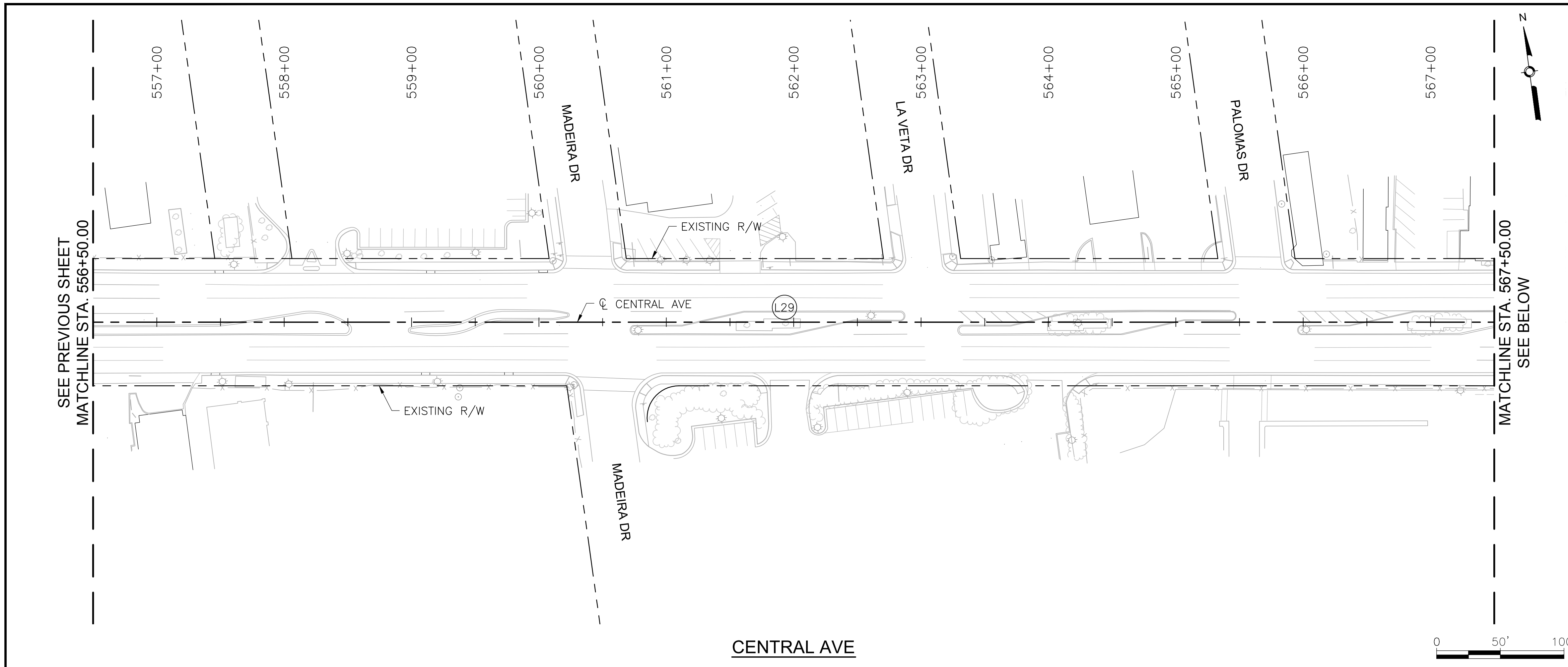
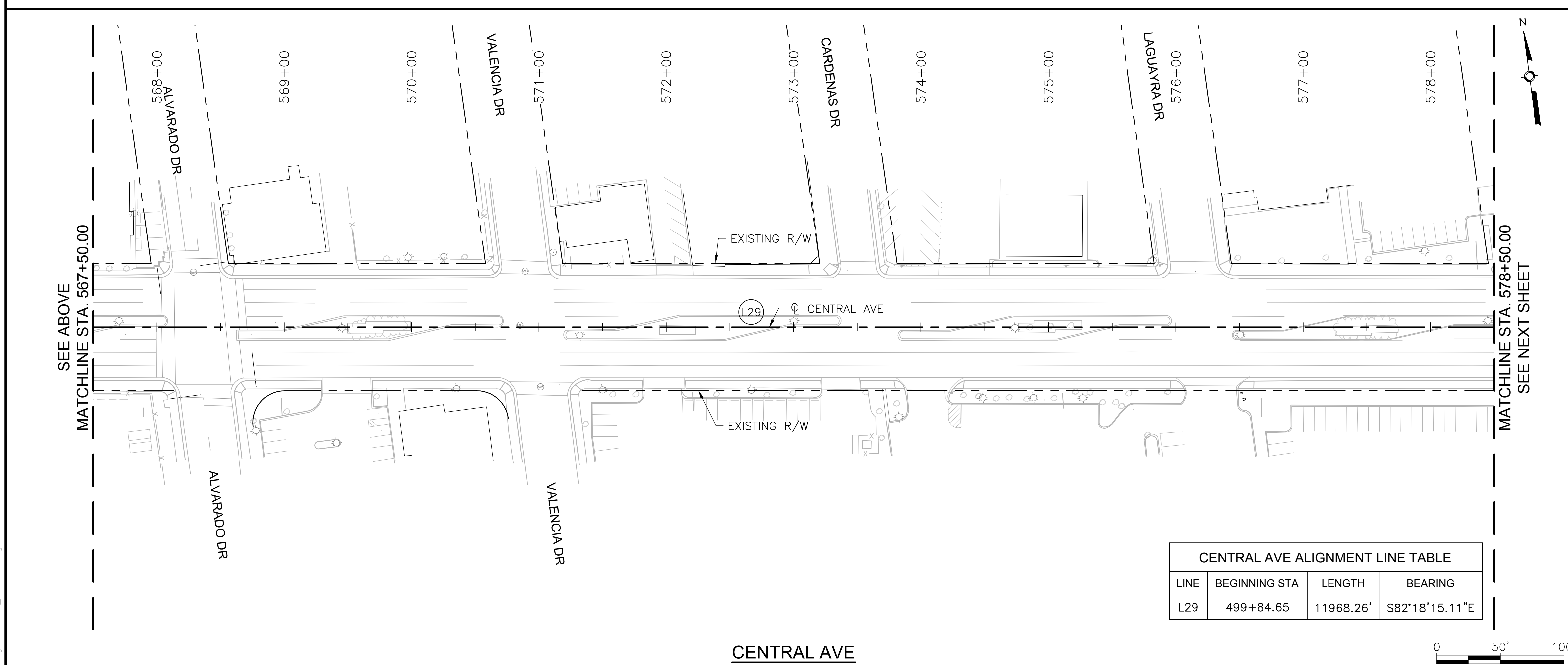
631991	J12-13, K10-19	CS	26	62





CENTRAL AVE ALIGNMENT LINE TABLE

LINE	BEGINNING STA	LENGTH	BEARING
L29	499+84.65	11968.26'	S82°18'15.11"E

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE:
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BENCHMARKS

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N: 1485016.971 USFT
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SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

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NO.	DATE	REMARKS	BY

DESIGN
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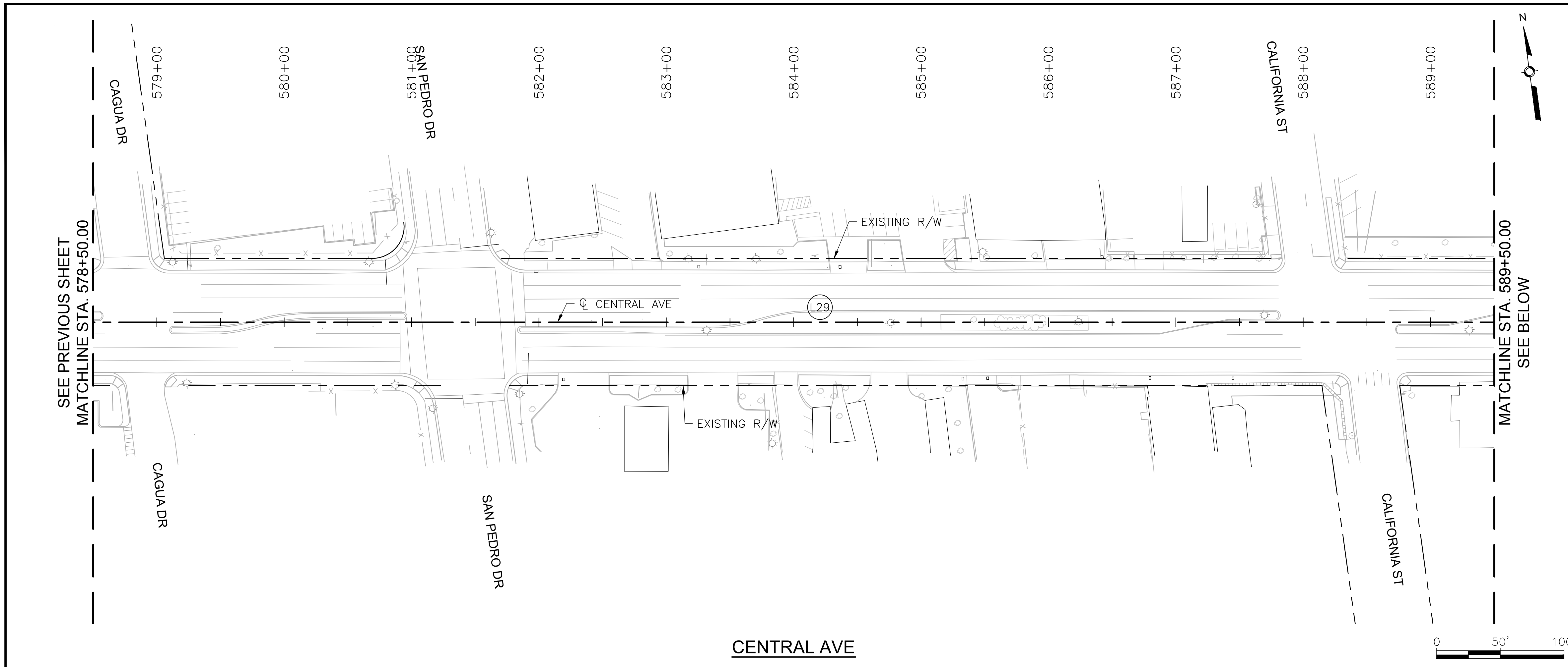
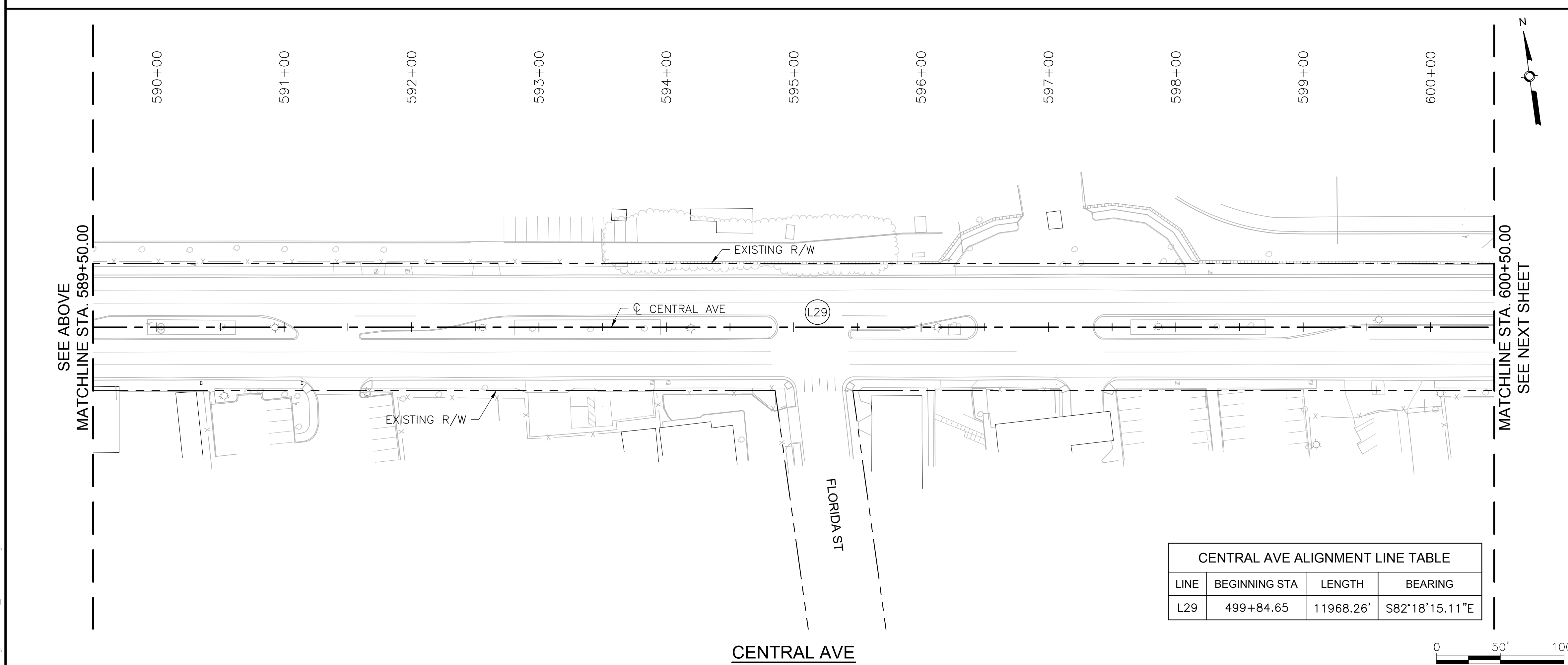
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	27	62

Date: 19 Feb 2015 - 2:58pm User: dmguller
Drawing Name: SC_PL17-24.dwg





CENTRAL AVE ALIGNMENT LINE TABLE

LINE	BEGINNING STA	LENGTH	BEARING
L29	499+84.65	11968.26'	S82°18'15.11"E

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

30% REVIEW

PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
CHECKED BY: EP DATE: 2/19/2015

HDR
2155 LOUISIANA BLVD NE, SUITE 9500
ALBUQUERQUE, NM 87110
MAIN: (505) 830-5400
FAX: (505) 830-5454

ABQ RIDE

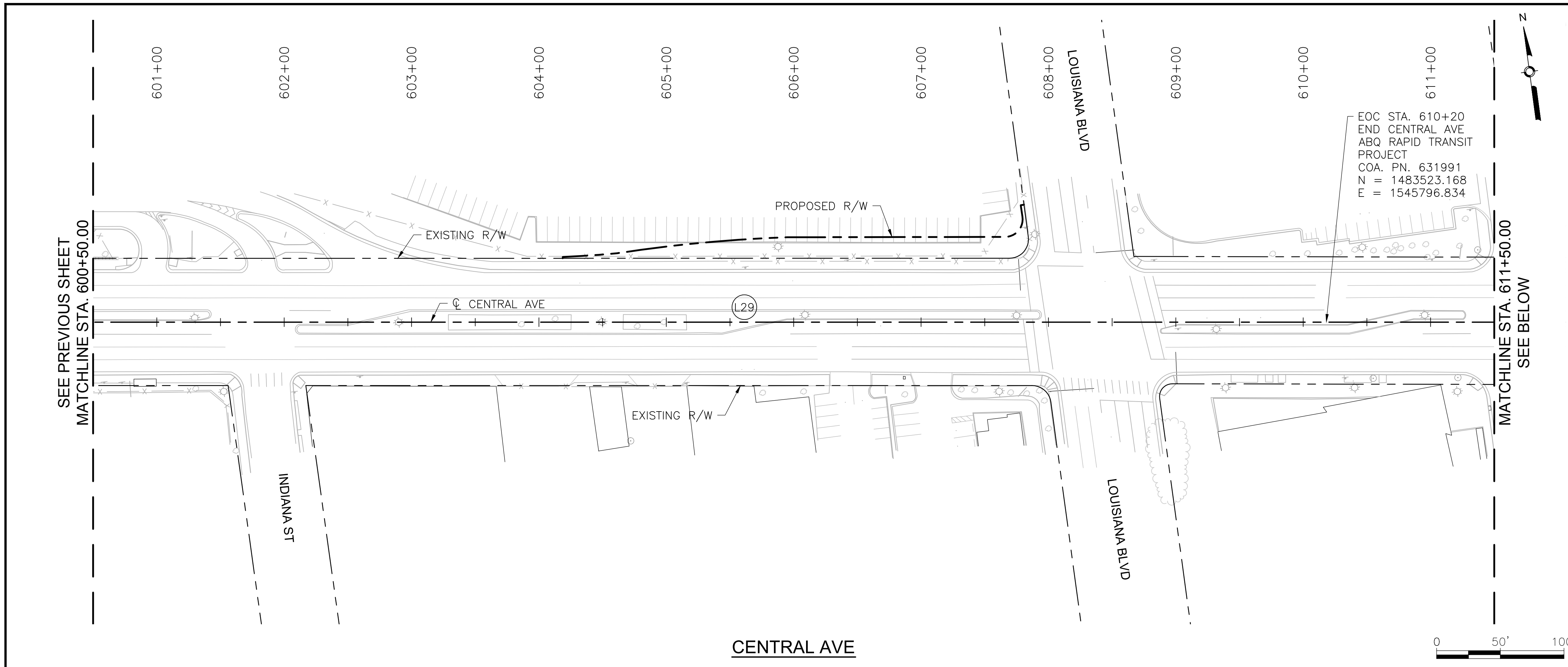
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

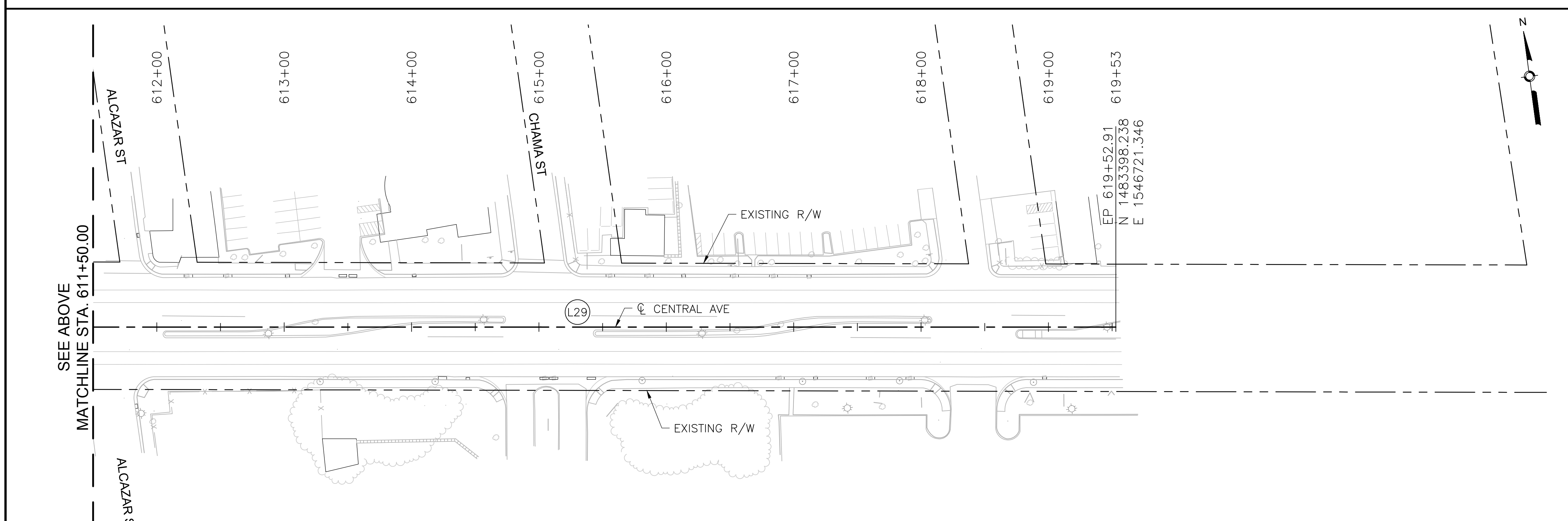
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	28	62

Date: 19 Feb 2015 - 3:00pm User: amguller
Drawing Name: SC_PLT-24.dwg





CENTRAL AVE ALIGNMENT LINE TABLE

LINE	BEGINNING STA	LENGTH	BEARING
L29	499+84.65	11968.26'	S82°18'15.11"E

Date: 19 Feb 2015 – 3:01pm User: amgutier
Drawing Name: SC_PL17-24.dwg

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE:
INSPECTOR'S ACCEPTANCE BY	DATE:
FIELD VERIFICATION BY	DATE:
DRAWINGS CORRECTED BY	DATE:

MICRO–FILM INFORMATION

RECORDED BY	DATE:
NO.	

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5–K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

30% REVIEW

PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: ARG/ZS DATE: 2/19/2015
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CHECKED BY: EP DATE: 2/19/2015

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ABQ RIDE

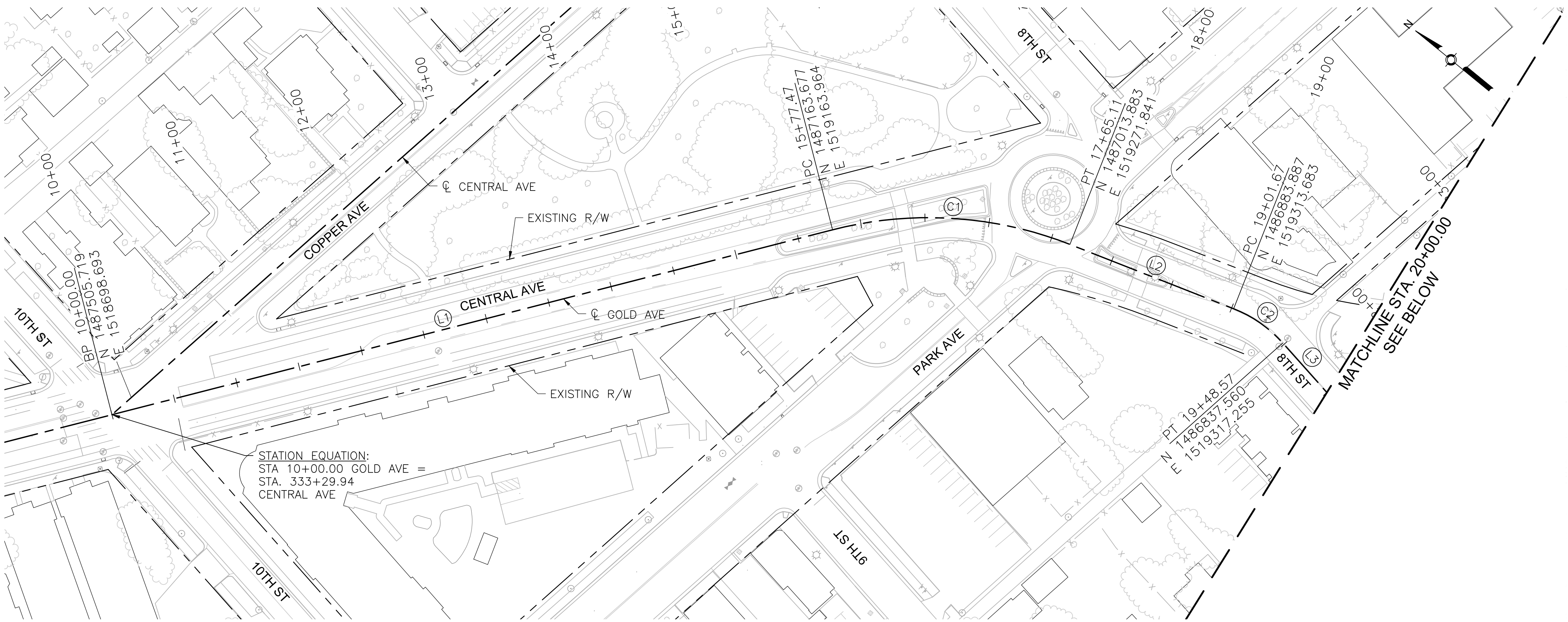
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

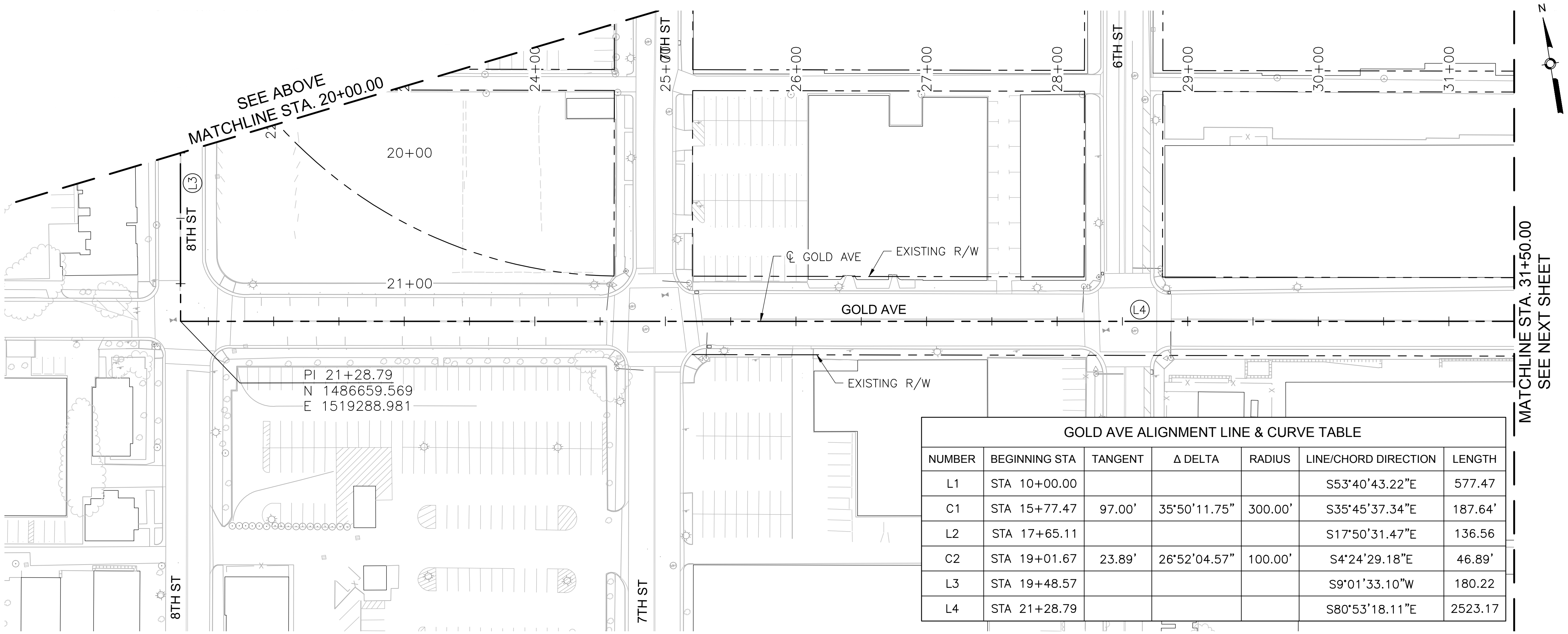
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

Last Design Update

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	29	62



CENTRAL AVE



GOLD AVE ALIGNMENT LINE & CURVE TABLE

NUMBER	BEGINNING STA	TANGENT	Δ DELTA	RADIUS	LINE/CHORD DIRECTION	LENGTH
L1	STA 10+00.00				S53°40'43.22"E	577.47
C1	STA 15+77.47	97.00'	35°50'11.75"	300.00'	S35°45'37.34"E	187.64'
L2	STA 17+65.11				S17°50'31.47"E	136.56
C2	STA 19+01.67	23.89'	26°52'04.57"	100.00'	S4°24'29.18"E	46.89'
L3	STA 19+48.57				S9°01'33.10"W	180.22
L4	STA 21+28.79				S80°53'18.11"E	2523.17

GOLD AVE

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

AS BUILT INFORMATION

CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
NO.

30% REVIEW

PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
CHECKED BY: EP DATE: 2/19/2015

HDR
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ABQ RIDE

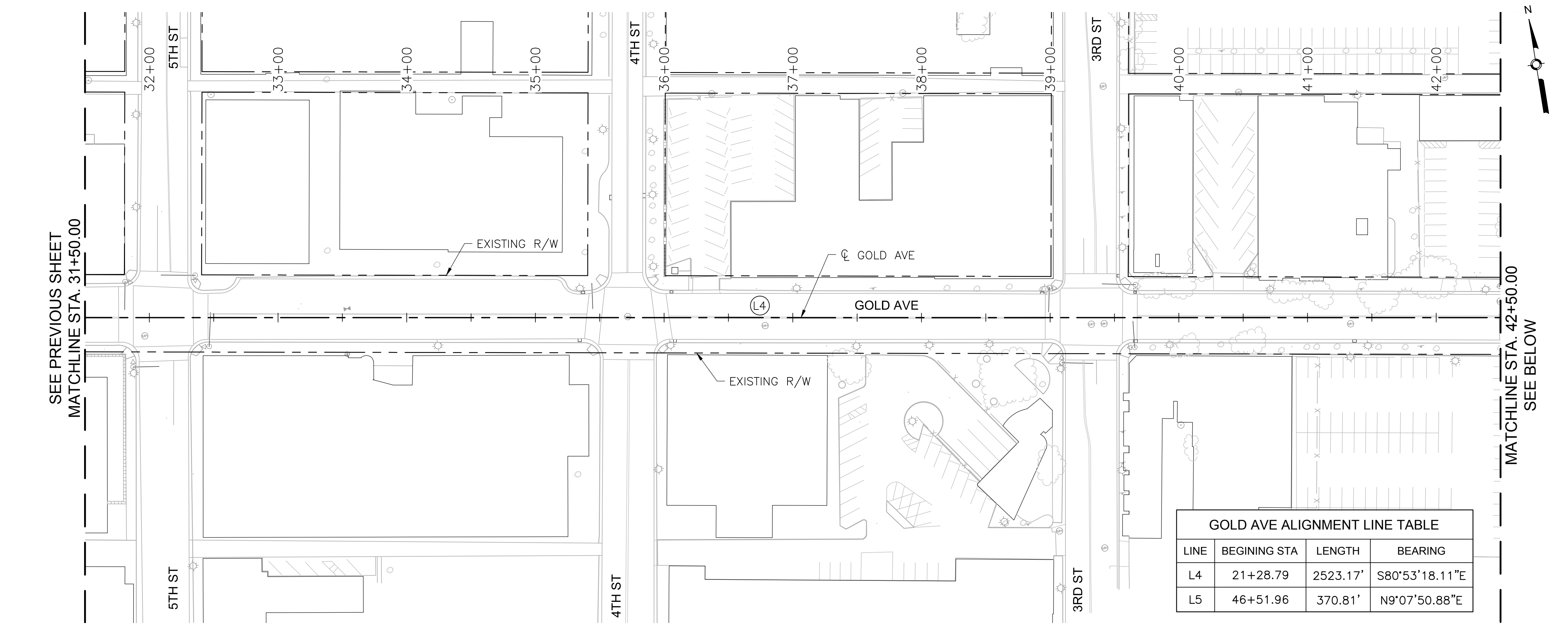
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

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

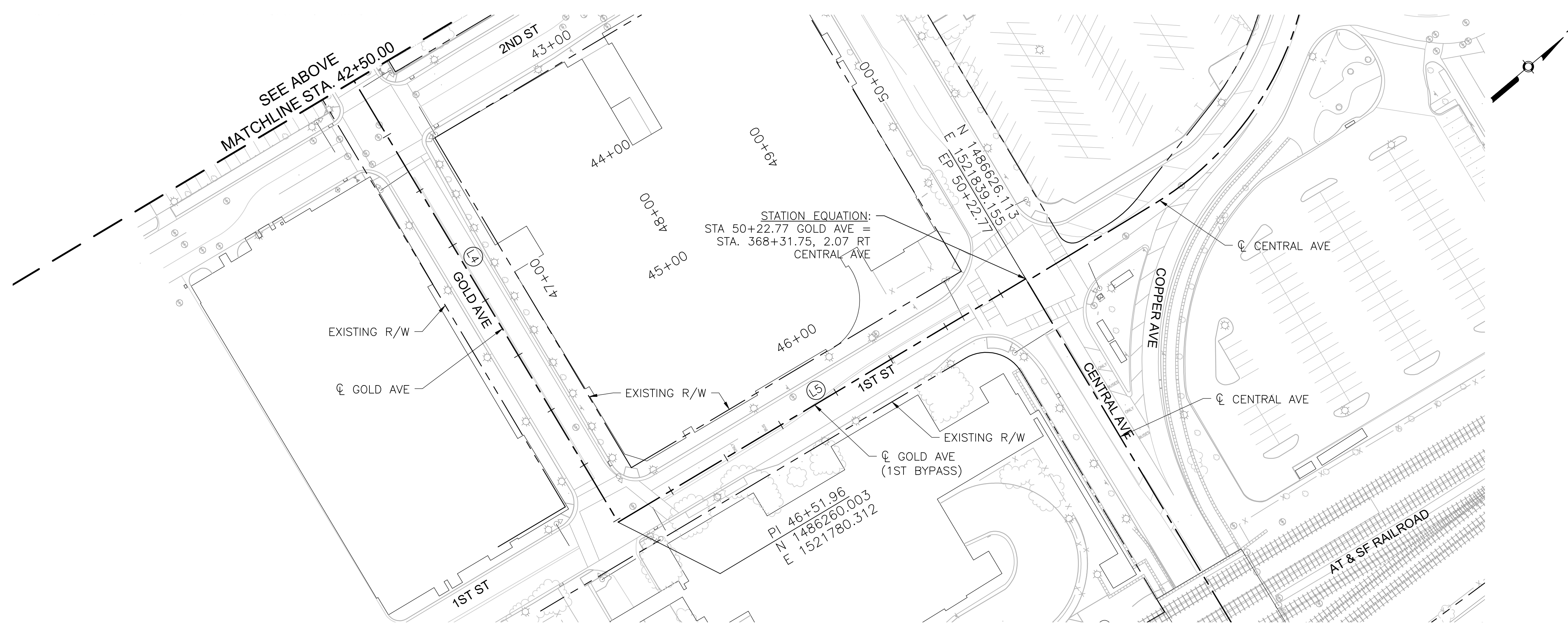
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	30	62

Date: 19 Feb 2015 - 3:03pm User: amguller
Drawing Name: SP_PL25-26.dwg



GOLD AVE ALIGNMENT LINE TABLE			
LINE	BEGINING STA	LENGTH	BEARING
L4	21+28.79	2523.17'	S80°53'18.11"E
L5	46+51.96	370.81'	N9°07'50.88"E

GOLD AVE



1ST ST

AS BUILT INFORMATION

CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
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E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: ARG/ZS DATE: 2/19/2015
DRAWN BY: ZS DATE: 2/19/2015
CHECKED BY: EP DATE: 2/19/2015

HDR
2155 LOUISIANA BLVD NE, SUITE 9500
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ABQ RIDE

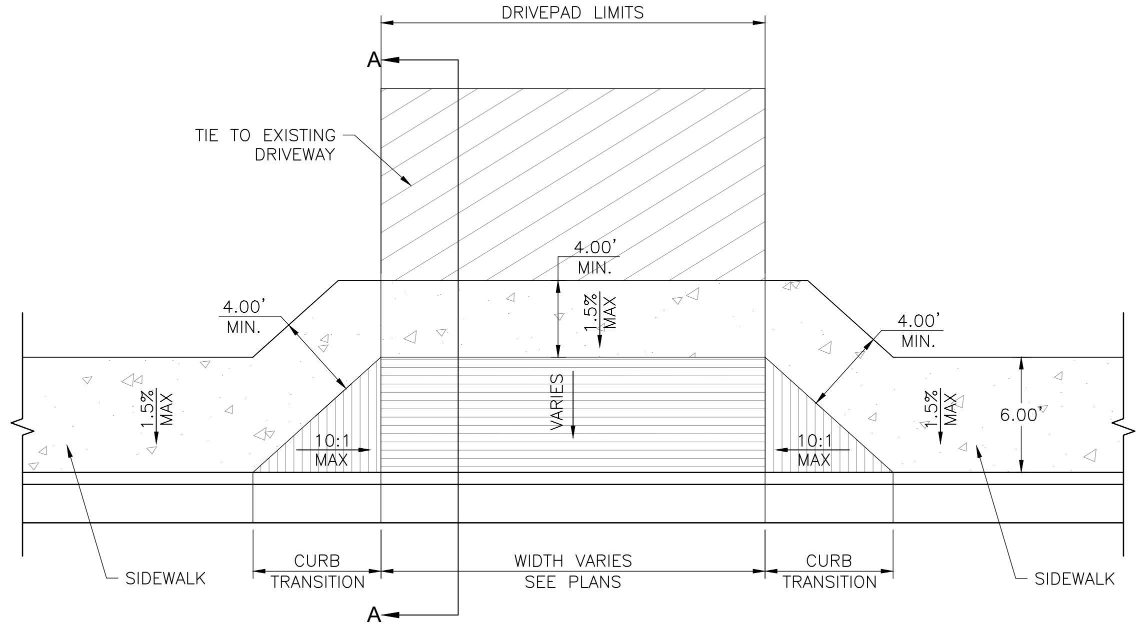
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
SURVEY CONTROL

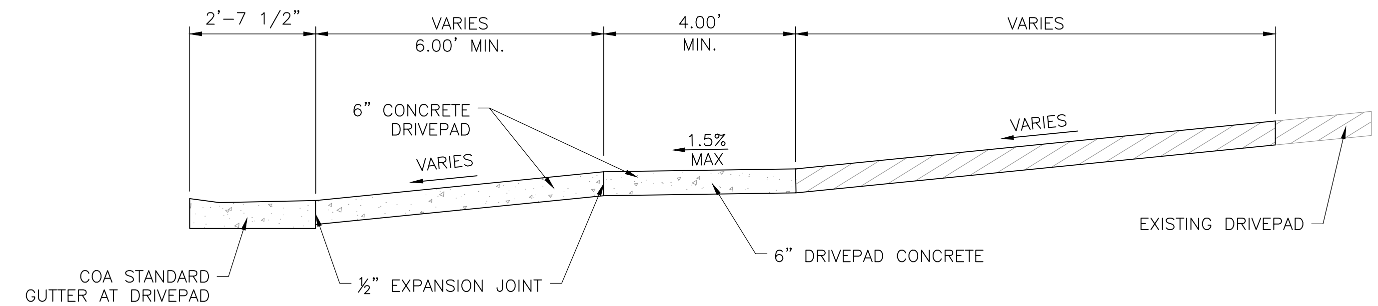
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	31	62

Date: 19 Feb 2015 - 3:04pm User: amguiler
Drawing Name: SP_PL25-26.dwg



OFFSET SIDEWALK DRIVEPAD
NOT TO SCALE



SECTION A-A
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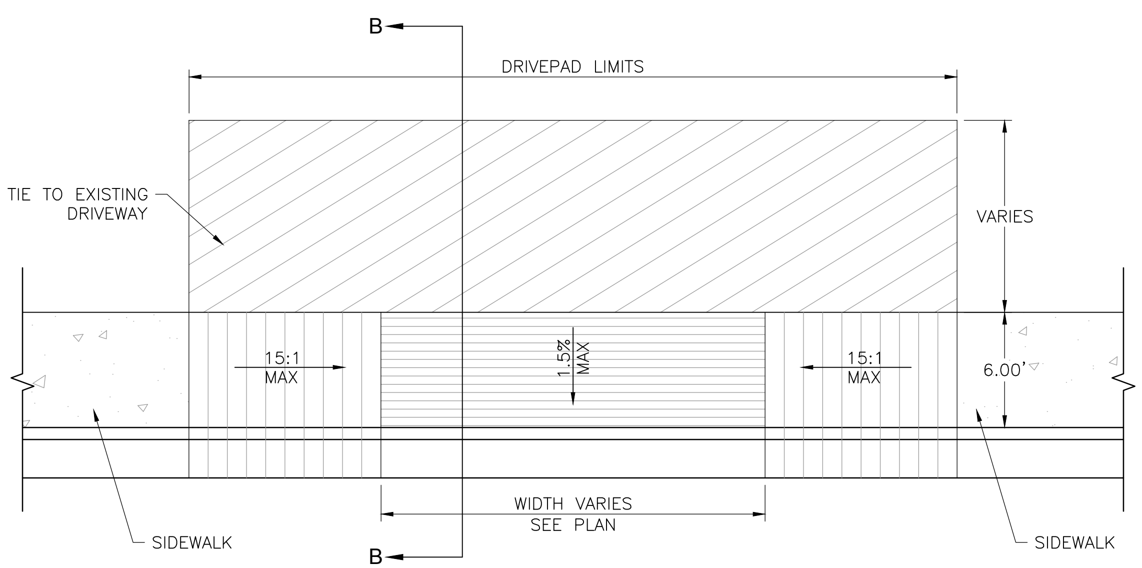
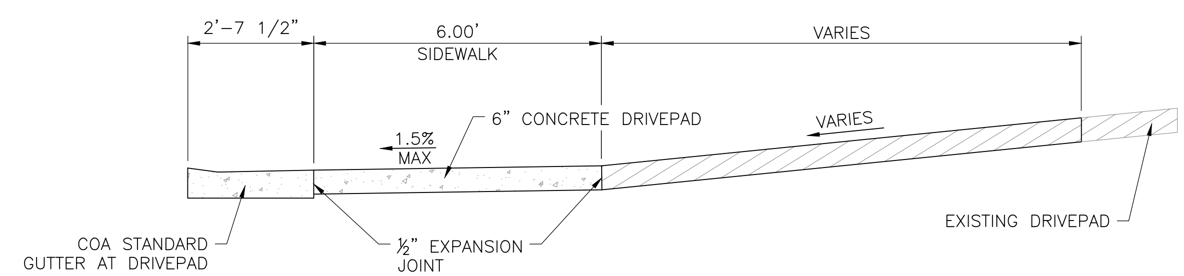


RAMP SIDEWALK DRIVEPAD
NOT TO SCALE



SECTION B-B
NOT TO SCALE

AS BUILT INFORMATION
CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
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ELEV: 5174.054

SURVEY INFORMATION
FIELD NOTES
NO.	BY	DATE

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

HDR
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ABQ RIDE

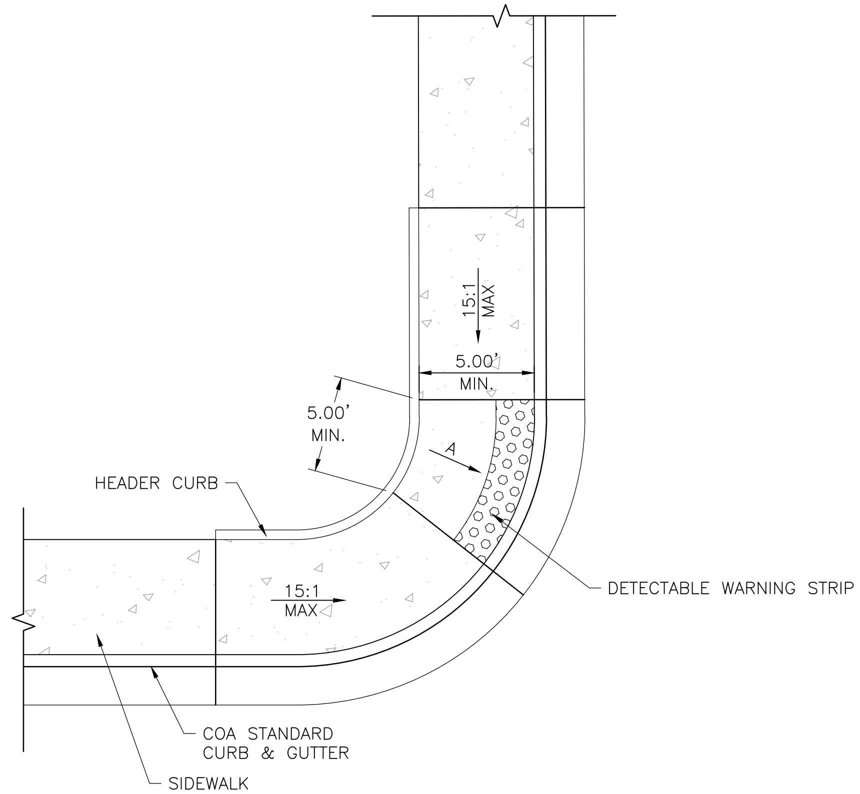
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
DRIVEPAD DETAILS

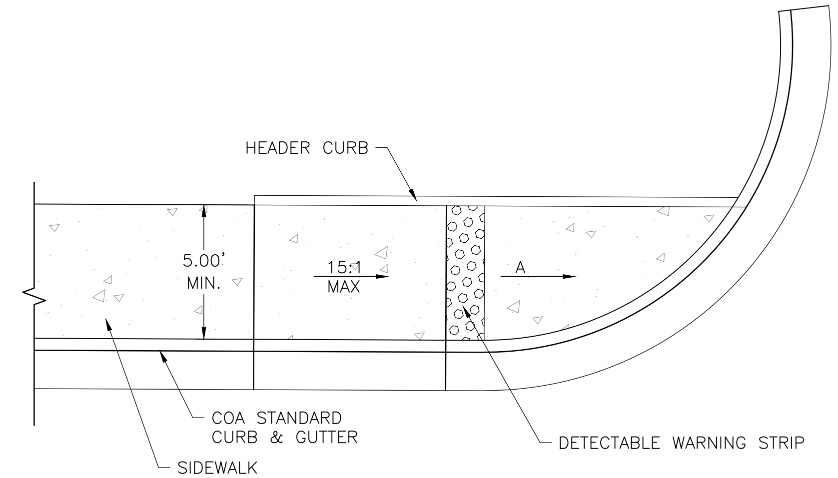
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	32	62

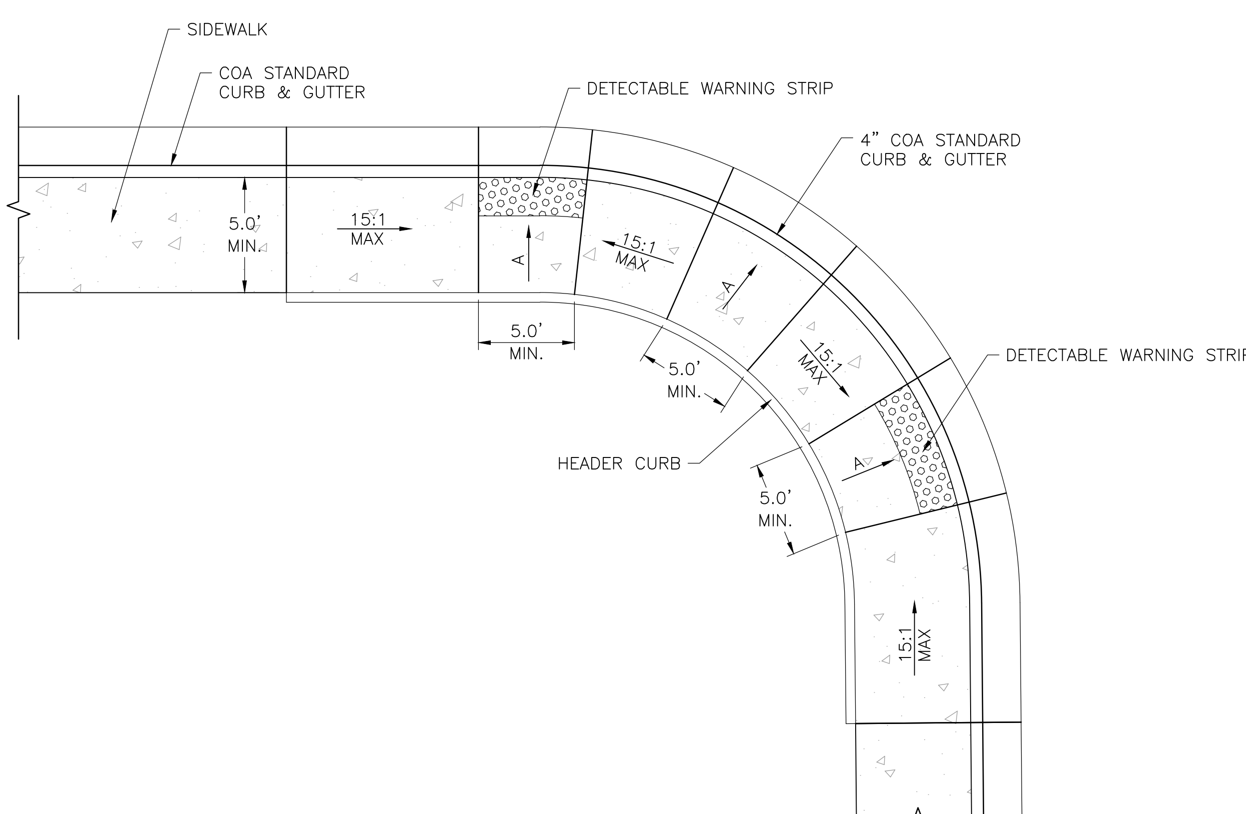
Date: 19 Feb 2015 - 3:04pm User: amguller
Drawing Name: MD01.dwg



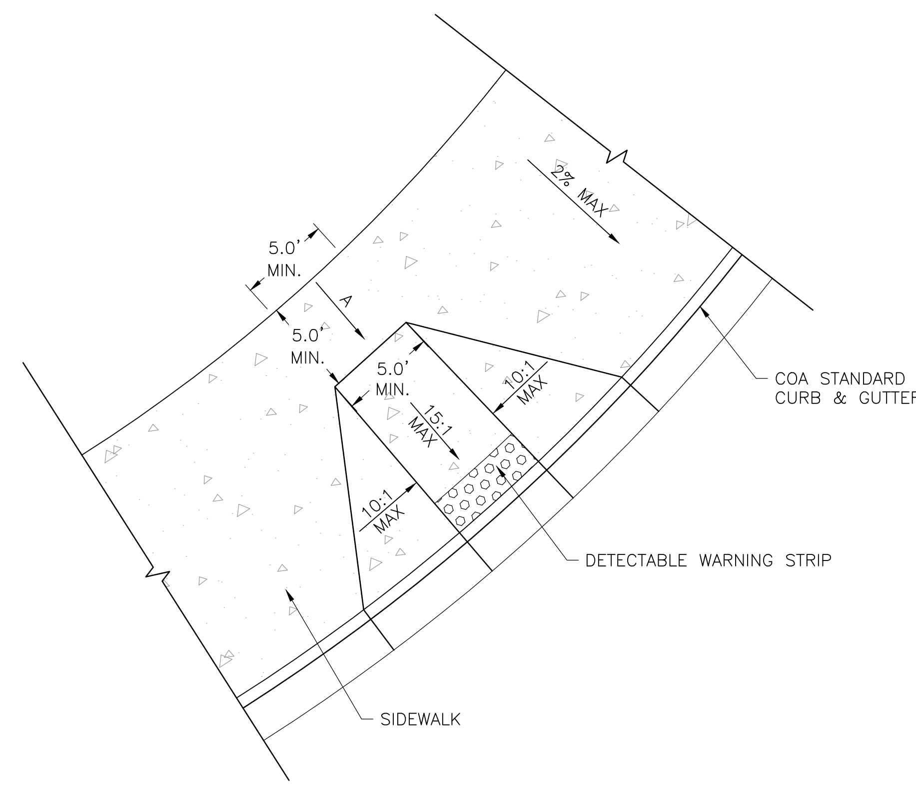
PARALLEL CURB RAMP
NOT TO SCALE



ONE-WAY DIRECTIONAL CURB RAMP
NOT TO SCALE



BI-DIRECTIONAL CURB RAMP
NOT TO SCALE



PERPENDICULAR CURB RAMP
NOT TO SCALE

GENERAL NOTES

A. 1.5% MAX ALL DIRECTIONS.

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO–FILM INFORMATION

RECORDED BY — DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5–K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

30% REVIEW

PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: XX — DATE: 2/19/2015
DRAWN BY: XX — DATE: 2/19/2015
CHECKED BY: XX — DATE: 2/19/2015

HDR
2155 LOUISIANA BLVD NE, SUITE 9500
ALBUQUERQUE, NM 87110
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FAX: (505) 830-5454

ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

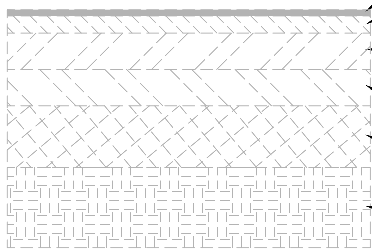
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
CURB RAMP DETAILS

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

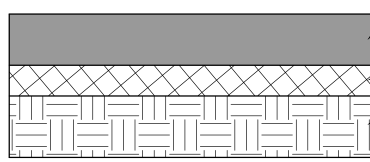
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	33	62

DESIGN SPEED	XX BLVD	XX DR	XX BLVD
CENTRAL AVE	__ MPH	__ MPH	__ MPH
CROSS STREET	--	--	--
% HEAVY COMMERCIAL (2030)	--%	--%	--%

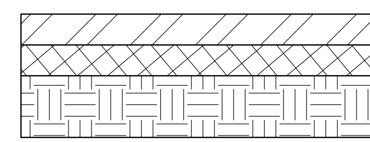
	XX TO XX ST		XX TO XX ST	
	NORTHBOUND	SOUTHBOUND	NORTHBOUND	SOUTHBOUND
AADT (2030)	XX	XX	XX	XX
DHV (2030)	X,X	X,X	X,X	X,X
ESALS (2030)	X,X	X,X	X,X	X,X



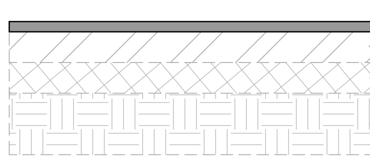
EXISTING PAVEMENT SECTION
NOT TO SCALE



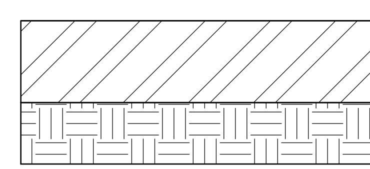
ART CEMENT CONCRETE PAVEMENT SECTION
NOT TO SCALE



ASPHALT CONCRETE PAVEMENT SECTION
NOT TO SCALE



MILL & OVERLAY PAVEMENT SECTION
NOT TO SCALE



FULL-DEPTH ASPHALT CONCRETE PAVEMENT SECTION
NOT TO SCALE

AS BUILT INFORMATION
CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
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ELEV: 5174.054

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS
NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

HDR
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ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
PAVEMENT SECTIONS

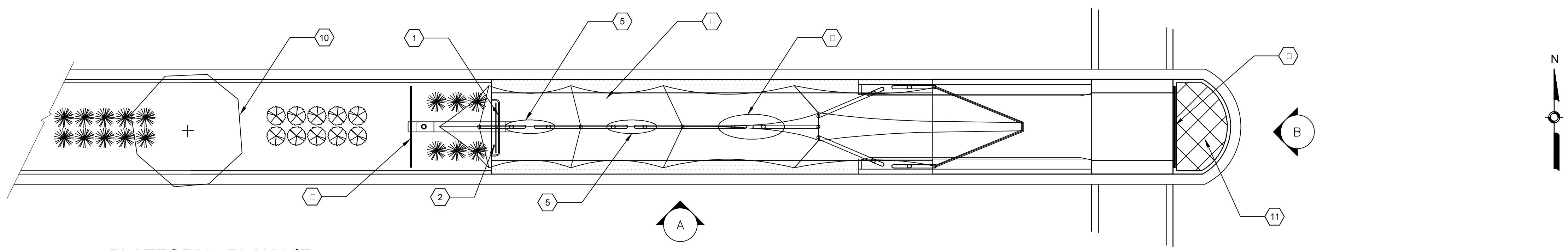
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	34	62

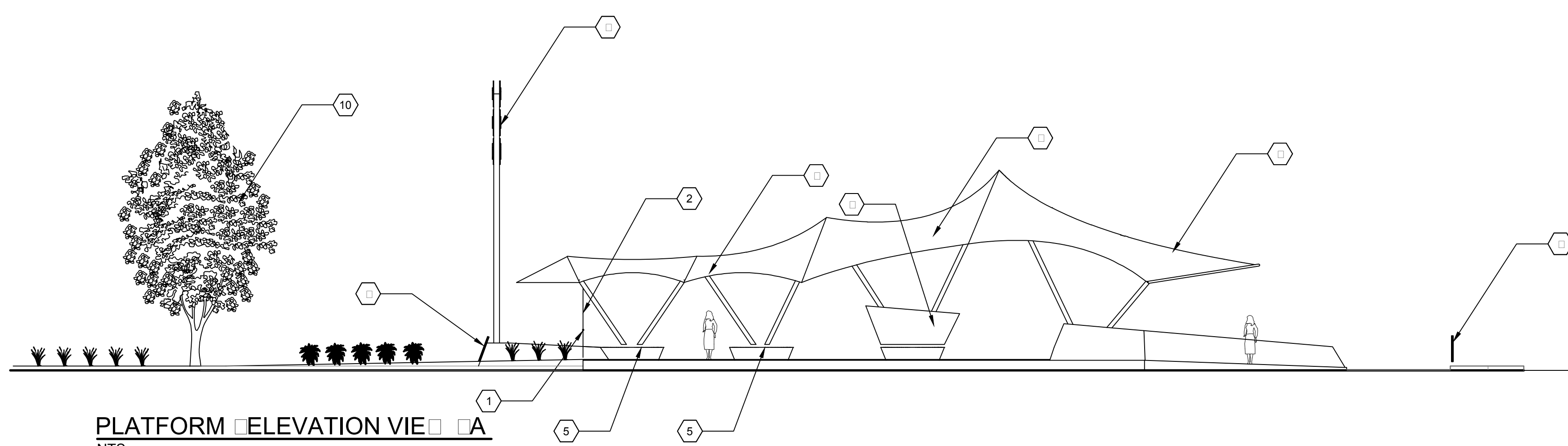
Date: 19 Feb 2015 - 3:05pm User: dmgutier
Drawing Name: M003.dwg

□EYED NOTES

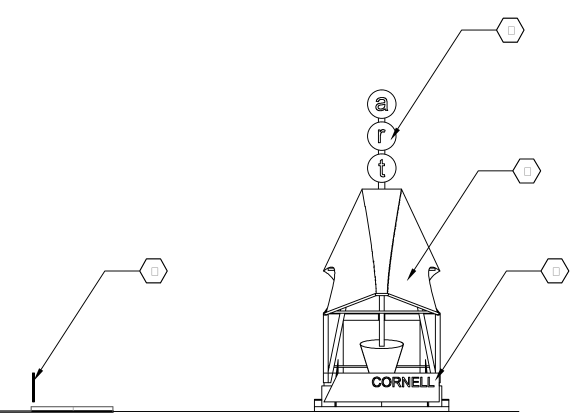
1. INSTALL LEANING RAIL PER MANUFACTURER'S REQUIREMENTS.
2. INSTALL WIND SCREEN PER MANUFACTURER'S REQUIREMENTS.
3. INSTALL TICKET MACHINES (2), INFORMATION KIOSK AND RECYCLE BINS PER MANUFACTURER'S REQUIREMENTS. INTEGRATE INTO ARCHITECTURAL SHROUD.
4. INSTALL STATION NAME SIGNAGE. SEE SIGNAGE SHEETS.
5. INTEGRATE PLATFORM SEATING INTO ELEVATED CANOPY FOUNDATION.
6. INSTALL STATION CANOPY PER MANUFACTURER'S REQUIREMENTS. SEE CANOPY SHEETS.
7. INSTALL "ART" SIGN. SEE SIGNAGE SHEETS.
8. INSTALL ITS SYSTEM PER MANUFACTURER'S REQUIREMENTS.
9. INSTALL CANOPY/STATION LIGHTING. SEE LIGHTING SHEETS.
10. INSTALL LANDSCAPING AND IRRIGATION PER COA STANDARDS.
11. INSTALL MEDIAN PAVING.



PLATFORM □PLAN VIE□
NTS



PLATFORM □ELEVATION VIE□ □A
NTS



PLATFORM □ELEVATION VIE□ □B
NTS

AS BUILT INFORMATION

CONTRACTOR — DATE:
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO–FILM INFORMATION

RECORDED BY — DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

GENERAL NOTES

1. SEE STATION PLATFORM LAYOUT PLAN SHEET XX FOR ADDITIONAL PLATFORM NOTES.

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
10/201□

ARCHITECTURE / DESIGN / INSPIRATION
DEKKER PERICH SABATINI
7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109
505.761.9700 / DPSDESIGN.ORG

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

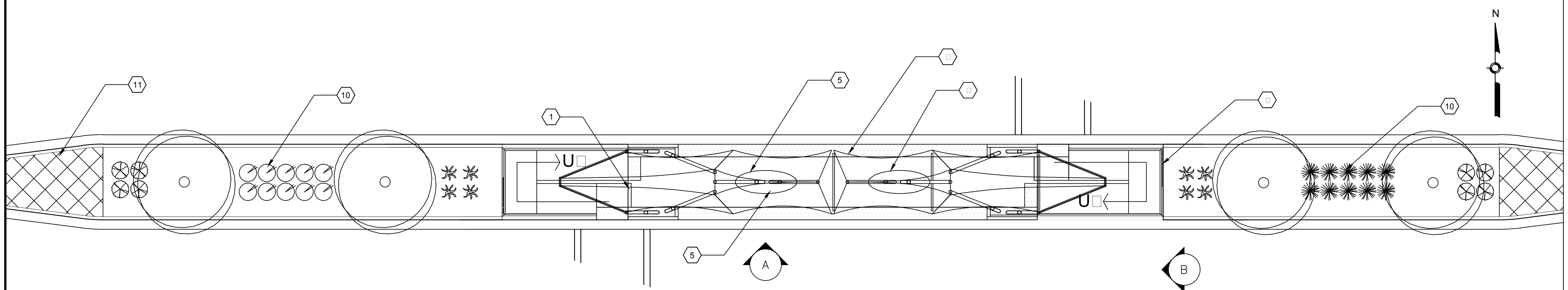
DESIGNED BY: XX — DATE: 3/2015
DRAWN BY: XX — DATE: 3/2015
CHECKED BY: XX — DATE: 3/2015

ABQRIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

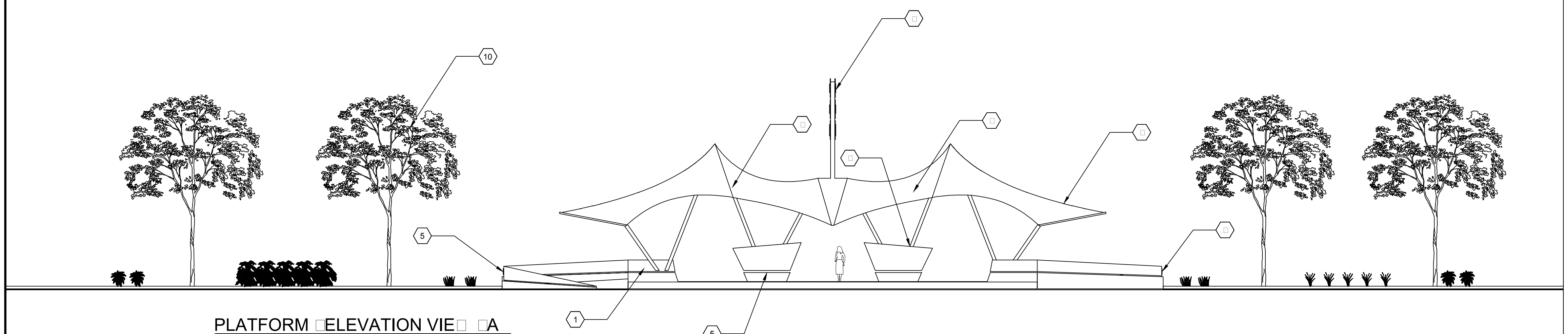
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
DOUBLE PLATFORM STATION □1□□ □5□

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

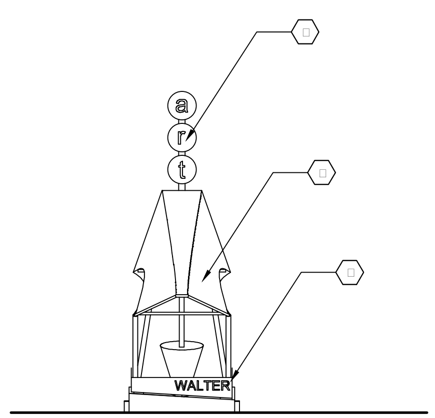
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	35	62



PLATFORM □PLAN VIE□
NTS



PLATFORM □ELEVATION VIE□ □A
NTS



PLATFORM □ELEVATION VIE□ □B
NTS

□EYED NOTES

1. INSTALL LEANING RAIL PER MANUFACTURER'S REQUIREMENTS.
2. INSTALL WIND SCREEN PER MANUFACTURER'S REQUIREMENTS.
3. INSTALL TICKET MACHINES (2), INFORMATION KIOSK AND RECYCLE BINS PER MANUFACTURER'S REQUIREMENTS. INTEGRATE INTO ARCHITECTURAL SHROUD.
4. INSTALL STATION NAME SIGNAGE. SEE SIGNAGE SHEETS.
5. INTEGRATE PLATFORM SEATING INTO ELEVATED CANOPY FOUNDATION.
6. INSTALL STATION CANOPY PER MANUFACTURER'S REQUIREMENTS. SEE CANOPY SHEETS.
7. INSTALL "ART" SIGN. SEE SIGNAGE SHEETS.
8. INSTALL ITS SYSTEM PER MANUFACTURER'S REQUIREMENTS.
9. INSTALL CANOPY/STATION LIGHTING. SEE LIGHTING SHEETS.
10. INSTALL LANDSCAPING AND IRRIGATION PER COA STANDARDS.
11. INSTALL MEDIAN PAVING.

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

GENERAL NOTES

1. SEE STATION PLATFORM LAYOUT PLAN SHEET XX FOR ADDITIONAL PLATFORM NOTES.

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
10/201□

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: XX DATE: 3/2015
DRAWN BY: XX DATE: 3/2015
CHECKED BY: XX DATE: 3/2015

ARCHITECTURE / DESIGN / INSPIRATION
DEKKER PERICH SABATINI
7601 JEFFERSON NE, SUITE 100
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ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
MID□BLOC□ DOUBLE PLATFORM STATION □12□ □5□

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	36	62

Date: 19 Feb 2015 – 3:23pm User: greggw
Drawing Name: DPS_SHEET TEMPLATE.dwg

KEYED NOTES

1. INSTALL LEANING RAIL PER MANUFACTURER'S REQUIREMENTS.
2. INSTALL WIND SCREEN PER MANUFACTURER'S REQUIREMENTS.
3. INSTALL TICKET MACHINES (2), INFORMATION KIOSK AND RECYCLE BINS PER MANUFACTURER'S REQUIREMENTS. INTEGRATE INTO ARCHITECTURAL SHROUD.
4. INSTALL STATION NAME SIGNAGE. SEE SIGNAGE SHEETS.
5. INTEGRATE PLATFORM SEATING INTO ELEVATED CANOPY FOUNDATION.
6. INSTALL STATION CANOPY PER MANUFACTURER'S REQUIREMENTS. SEE CANOPY SHEETS.
7. INSTALL "ART" SIGN. SEE SIGNAGE SHEETS.
8. INSTALL ITS SYSTEM PER MANUFACTURER'S REQUIREMENTS.
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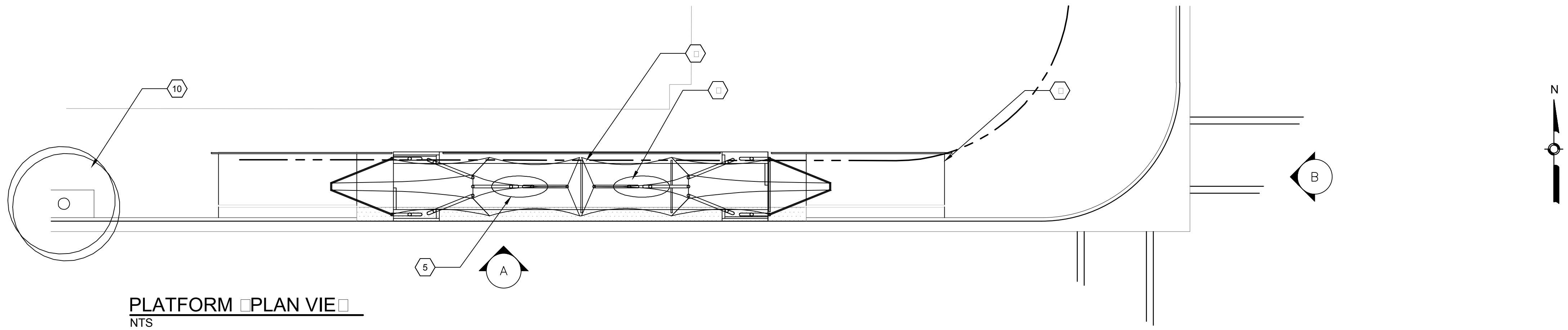
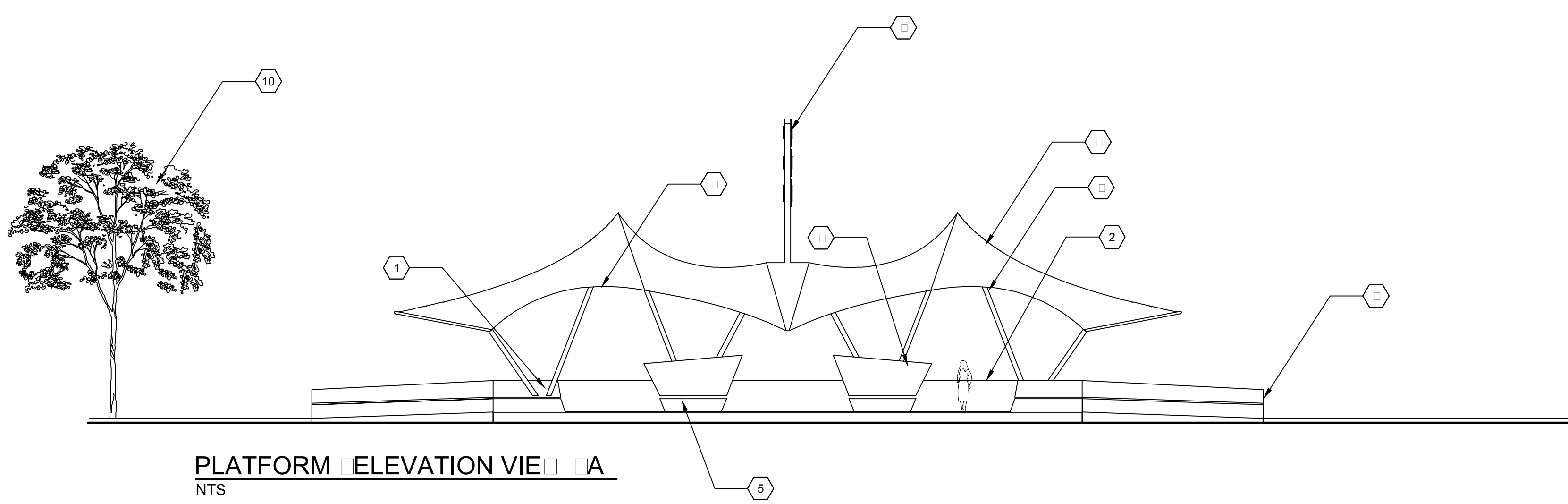
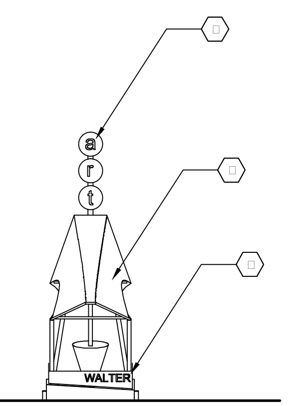
10. INSTALL LANDSCAPING AND IRRIGATION PER COA STANDARDS.



PLATFORM PLAN VIEW
NTS



PLATFORM ELEVATION VIEW A
NTS



PLATFORM ELEVATION VIEW B
NTS

GENERAL NOTES

1. SEE STATION PLATFORM LAYOUT PLAN SHEET XX FOR ADDITIONAL PLATFORM NOTES.

AS BUILT INFORMATION
CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY

MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

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10/201

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REVISIONS

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY: XX DATE: 3/2015
DRAWN BY: XX DATE: 3/2015
CHECKED BY: XX DATE: 3/2015

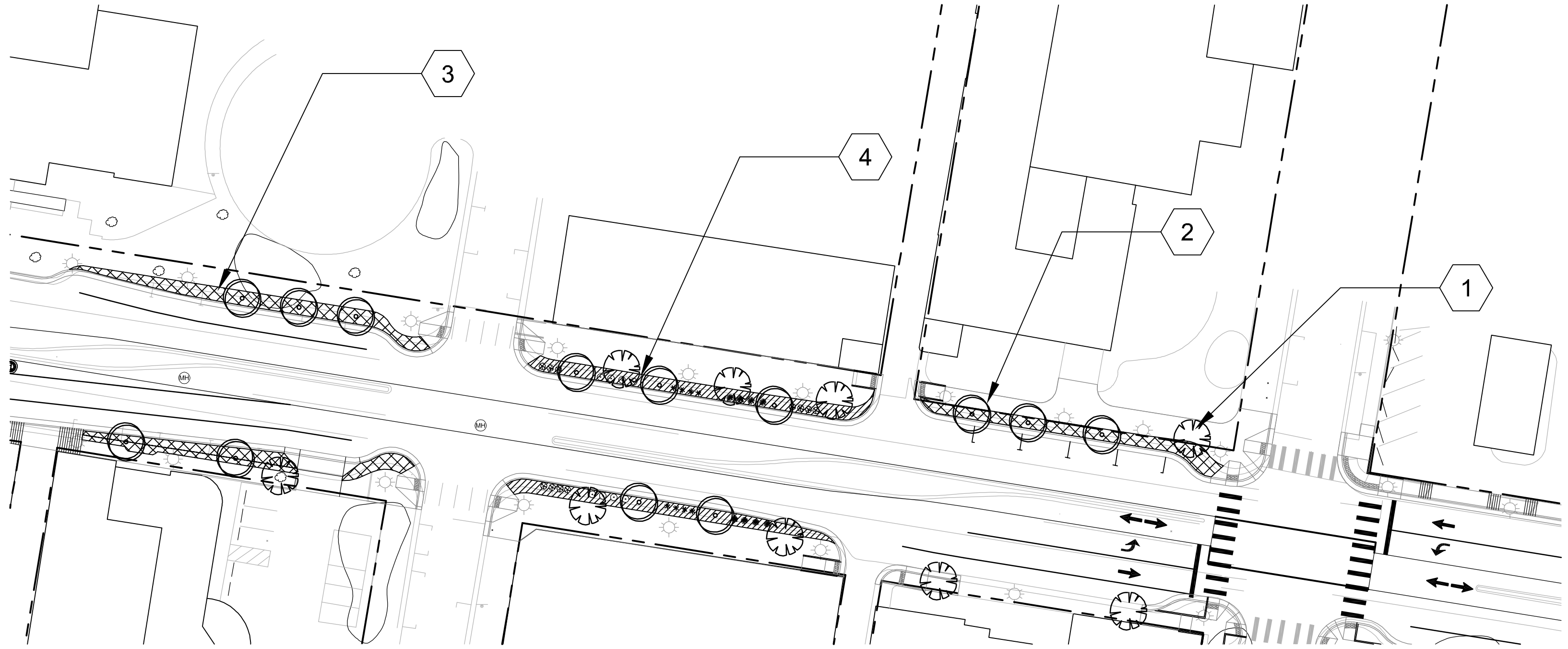
ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

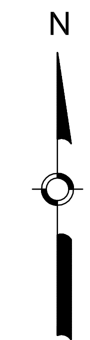
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
CURBSIDE SINGLE PLATFORM STATION 10 5

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

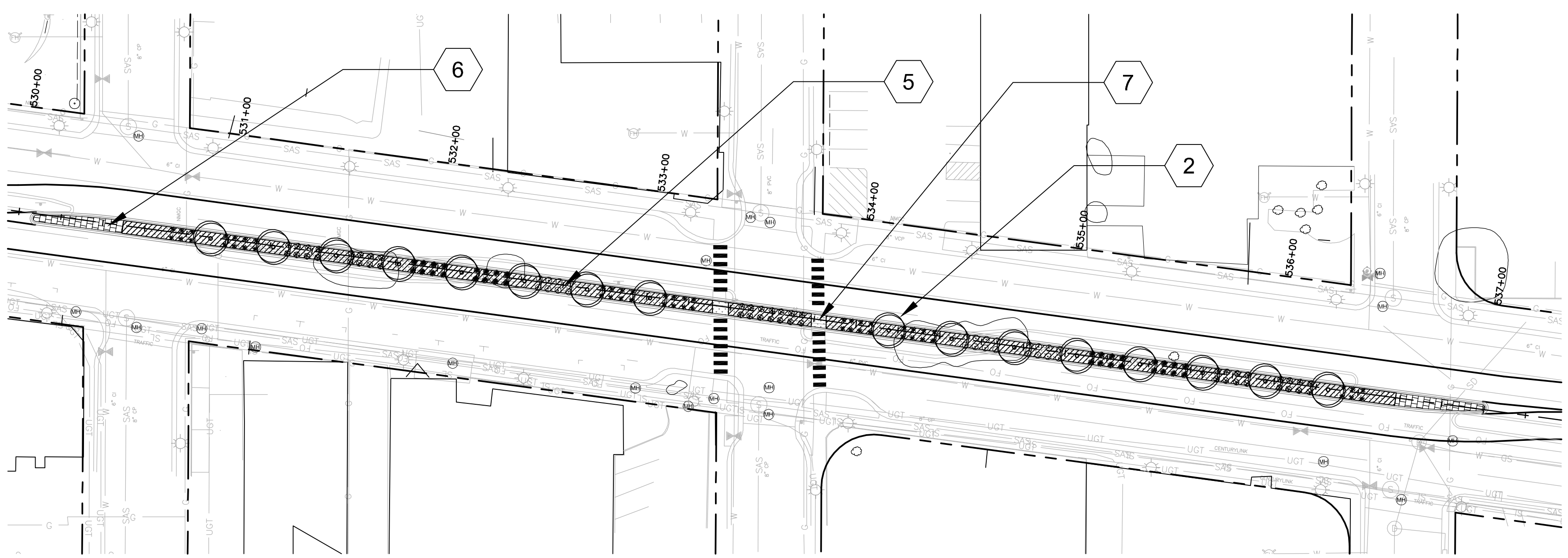
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	37	62

Date: 19 Feb 2015 - 3:22pm User: greggw
Drawing Name: DPS_SHEET TEMPLATE.dwg





SIDEWALK IMPROVEMENTS
NTS



MEDIAN IMPROVEMENTS
NTS

KEYED NOTES

1. EXISTING STREET TREES TO REMAIN – IF IN GOOD CONDITION.
2. INSTALL LANDSCAPE AND IRRIGATION PER COA STANDARDS.
3. ALONG ON-STREET PARKING AREAS, INSTALL PERVIOUS PAVERS PER COA STANDARDS.
4. ALONG NO ON-STREET PARKING AREAS, INSTALL LANDSCAPE MULCH IN PLANTING AREAS PER COA STANDARDS.
5. INSTALL LANDSCAPE MULCH IN MEDIAN PLANTING AREAS PER COA STANDARDS.
6. MEDIAN PAVING.
7. PEDESTRIAN REFUGE.

GENERAL NOTES

LEGEND

- RIGHT OF WAY
- PERVIOUS PAVING
- LANDSCAPE MULCH
- EXISTING TREE
- PROPOSED TREE
- PROP. SHRUBS
- EXISTING STREETLIGHTS

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE:
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BENCHMARKS

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FIELD NOTES

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10/2014

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: — DATE: 3/2015
DRAWN BY: — DATE: 3/2015
CHECKED BY: — DATE: 3/2015

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ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT TYPICAL MEDIAN AND BACK OF CURB LANDSCAPE IMPROVEMENTS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	38	62

Date: 19 Feb 2015 – 3:52pm User: greggw
Drawing Name: 14-0056 LP.dwg

TEMPORARY TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN CONSTRUCTION COORDINATION AND EXCAVATION/BARRICADING PERMIT AT LEAST TWO (2) WORKING DAYS BEFORE ENGAGING IN ANY CONSTRUCTION. MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHT-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. CONSTRUCTION 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 ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF CONSTRUCTION SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

4. 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 THESE CHANGES.

5. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AND SECTION 1200 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT THE LENGTH AND LIFE OF PROJECT. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

6. 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.

7. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE IS MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

8. 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.

9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION COORDINATION A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

10. CONSTRUCTION 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.

11. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN AND BICYCLE TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

12. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND IS RESPONSIBLE FOR ALL TEMPORARY STRIPING.

13. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENCES AT ALL TIMES.

14. 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.

15. 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.

16. FORTY EIGHT HOURS PRIOR TO OCCUPYING OR CLOSING A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

17. ANY FIELD ADJUSTMENTS OF TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

18. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

19. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:

    1) STANDARDS AND REQUIREMENTS SET FORTH IN THE MUTCD, 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 WORKS CONSTRUCTION, AS WELL AS OTHER SECTIONS.

    FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED ITEMS WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON THE CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

20. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE TEMPORARY TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

21. ADVANCE WARNING SIGNS SHALL BE 36"X36" MINIMUM. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE MUTCD.

22. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

PROPOSED SEQUENCE OF CONSTRUCTION

GENERAL INFORMATION/SET-UP:

WORK MAY BE DONE CONCURRENTLY IN THREE ZONES WITHIN THE CORRIDOR. THE ACTIVE WORK ZONES (TRANSITION, ACTIVITY AND TERMINATION AREAS) SHALL BE SPACED APART TO PROVIDE RELIEF TO TRAFFIC CONGESTION. CONSTRUCTION IN THE VICINITY OF THE UNM, NOB HILL, EXPO NEW MEXICO AND BIO PARK SHOULD BE PHASED TO MINIMIZE DISRUPTION TO TRAFFIC AND ACCESS TO THESE AREAS. COORDINATION BETWEEN ADJACENT OR OVERLAPPING CONSTRUCTION PROJECTS SHOULD BE CONSIDERED TO ENSURE COMPATIBILITY OF THE TEMPORARY TRAFFIC CONTROL (TTC) AND ELIMINATION OF DUPLICATE SIGNING. EMERGENCY VEHICLE ROUTES AND ACCESS NEEDS TO BE CONSIDERED AND COORDINATED THROUGHOUT THE DURATION OF THE PROJECTS CONSTRUCTION.

THE FOLLOWING SUGGESTED PHASES ARE COMMON TO EACH ZONE.

PHASE I: BUILD CENTER LANES AND CENTER ART STATIONS.

PHASE I INVOLVES THE CONSTRUCTION OF THE ART LANES AND STATIONS LOCATED IN THE CENTER OF THE ROADWAY. UNDERGROUND UTILITY AND DRAINAGE RELOCATION AND IMPROVEMENTS IN THE ART LANES ARE TO BE DONE CONCURRENTLY WITH THE ROADWAY/STATION CONSTRUCTION. OVERHEAD UTILITY RELOCATION CAN BE DONE DURING ANY PHASE OR PRIOR TO START OF CONSTRUCTION. IF OVERHEAD UTILITY RELOCATIONS IS DONE DURING CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO PHASE THE RELOCATIONS TO PREVENT CONFLICTS WITH THE EXISTING OR NEW TRAFFIC SIGNALS AND LIGHTING. THE PORTLAND CEMENT CONCRETE PAVEMENT FOR THE EASTBOUND AND WESTBOUND CENTER RUNNING ART LANES CAN BE CONSTRUCTED SIMULTANEOUSLY PROVIDING ONE LANE OF TRAFFIC IN BOTH DIRECTIONS. THE EASTBOUND TRAFFIC IS SHIFTED TO THE SOUTH SIDE OUTSIDE LANE AND THE WESTBOUND TRAFFIC IS SHIFTED TO THE NORTH SIDE OUTSIDE LANE. VALVE BOX AND MANHOLE RESETTING REQUIRED IN THE ART SHOULD BE DONE IN THIS PHASE. CONFLICTING PAVEMENT MARKING SHALL BE REMOVED AND TEMPORARY PAVEMENT MARKING SHALL BE INSTALLED. STREET SIDE PARKING WILL BE REMOVED DURING PHASE I.

PHASE II: BUILD OUTSIDE CURB AND GUTTER, LIGHTING

PHASE II INVOLVES CONSTRUCTION OF OUTSIDE CURB AND GUTTER, SIDEWALKS, DRIVE PADS, DRAINAGE, UTILITY RELOCATION, PERMANENT SIGNING, INTERCONNECTS (TRAFFIC AND ITS) AND LIGHTING. TRAFFIC WILL BE SHIFTED TO THE CENTER PROVIDING ONE LANE OF TRAFFIC IN BOTH DIRECTIONS. UNDERGROUND UTILITY AND DRAINAGE RELOCATION/IMPROVEMENTS SHALL BE DONE CONCURRENTLY WITHIN THE CURB AND GUTTER/SIDEWALK AREA UNDER CONSTRUCTION. STREET LIGHT RELOCATION AND CONSTRUCTIONS SHOULD BE PERFORMED DURING THIS PHASE. CONFLICTING PAVEMENT MARKING SHALL BE REMOVED AND TEMPORARY PAVEMENT MARKING SHALL BE INSTALLED. STREET SIDE PARKING WILL NOT BE PROVIDED IN THIS PHASE. DRIVEWAY ACCESS SHALL BE MAINTAINED AND NOT BE RESTRICTED TO LESS THAN ONE LANE AT ALL TIMES UNLESS OTHER ACCESS POINTS ARE PROVIDED.

PHASE III: BUILD TRAFFIC SIGNALS, INTERSECTION IMPROVEMENTS

PHASE III INVOLVES CONSTRUCTION OF THE PERMANENT TRAFFIC SIGNALS, DRAINAGE AND INTERSECTION PAVEMENT IMPROVEMENTS. INTERSECTION CONSTRUCTION SHOULD BE DONE CLOSING ONLY HALF OF THE INTERSECTIONS AT ONE TIME. TEMPORARY TRAFFIC SIGNALS WILL BE ERECTED AND REMAIN IN PLACE UNTIL THE PERMANENT TRAFFIC SIGNAL ARE IN OPERATION. ONE TRAFFIC LANE IN EACH DIRECTION SHALL BE PROVIDED IN THE CENTER WHILE WORKING TO THE OUTSIDE AND THEN SHIFTED TO THE OUTSIDE ONE LANE EACH DIRECTION WHILE WORKING IN THE MIDDLE. TRAFFIC SIGNAL DETECTION IN-PAVEMENT LOOPS CAN BE CONSTRUCTED IN THE ART LANES. AT LOWER VOLUME INTERSECTION CROSS STREET TRAFFIC SHALL BE DETOURED TO NEARBY CROSS STREETS. HIGH TRAFFIC VOLUME INTERSECTIONS SHOULD PROVIDE ACCESS TO THE INTERSECTION THROUGHOUT THIS PHASE. LOCATIONS WHERE THE CROSS STREET TRAFFIC IS DETOURED TEMPORARY TRAFFIC SIGNALS ARE NOT REQUIRED. CONFLICTING PAVEMENT MARKING SHALL BE REMOVED AND TEMPORARY PAVEMENT MARKING SHALL BE INSTALLED. STREET SIDE PARKING SHALL BE PROVIDED IN THIS PHASE.

PHASE IV: PAVEMENT REHABILITATION

PHASE IV INVOLVES REHABILITATION OF THE EXISTING OUTSIDE LANES ASPHALT PAVEMENT BY MILLING AND INLAY USING ASPHALT PAVEMENT. TRAFFIC WILL BE SHIFTED TO THE CENTER PROVIDING ONE LANE OF TRAFFIC IN EACH DIRECTIONS. VALVE BOX AND MANHOLE RESETTING IN THE OUTSIDE LANES SHALL BE DONE IN THIS PHASE. TRAFFIC SIGNAL DETECTION IN-PAVEMENT LOOPS CAN BE CONSTRUCTED IN THE OUTSIDE LANES AFTER PAVEMENT REHABILITATION. WHEN PAVEMENT REHABILITATION IS COMPLETED TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND PERMANENT PAVEMENT MARKING INSTALLED. STREET SIDE PARKING WILL NOT BE PROVIDED IN THIS PHASE.

PHASE V: TRAFFIC SIGNAL TIMING ADJUSTMENTS AND FINE TUNING OF ART OPERATION

THIS PHASE WILL PROVIDE ADJUSTMENTS TO TRAFFIC SIGNAL TIMING/COORDINATING AND ART OPERATION. ADJUSTMENTS WILL BE DONE AFTER SUBSTANTIAL COMPLETION OF CONSTRUCTION IN ALL ZONES HAS BEEN ACHIEVED.

AS BUILT INFORMATION — CONTRACTOR; WORK STAKED BY DATE:; INSPECTOR'S ACCEPTANCE BY DATE:; FIELD VERIFICATION BY DATE:; DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION — RECORDED BY DATE:; NO.

BENCHMARKS — PROJECT PRIMARY BENCHMARK: 5_K16A A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE. NM SPC CENTRAL ZONE GRID: N: 1485016.971 USFT E: 1530495.993 USFT ELEV: 5174.054

SURVEY INFORMATION — FIELD NOTES: NO. | BY | DATE

30% REVIEW
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NOT FOR CONSTRUCTION
02/2015

REVISIONS — NO. | DATE | REMARKS | BY

DESIGN — DESIGNED BY: XX DATE: 2/19/2015; DRAWN BY: XX DATE: 2/19/2015; CHECKED BY: XX DATE: 2/19/2015

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ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
CONSTRUCTION SIGNING GENERAL NOTES
& CONSTRUCTION SEQUENCE

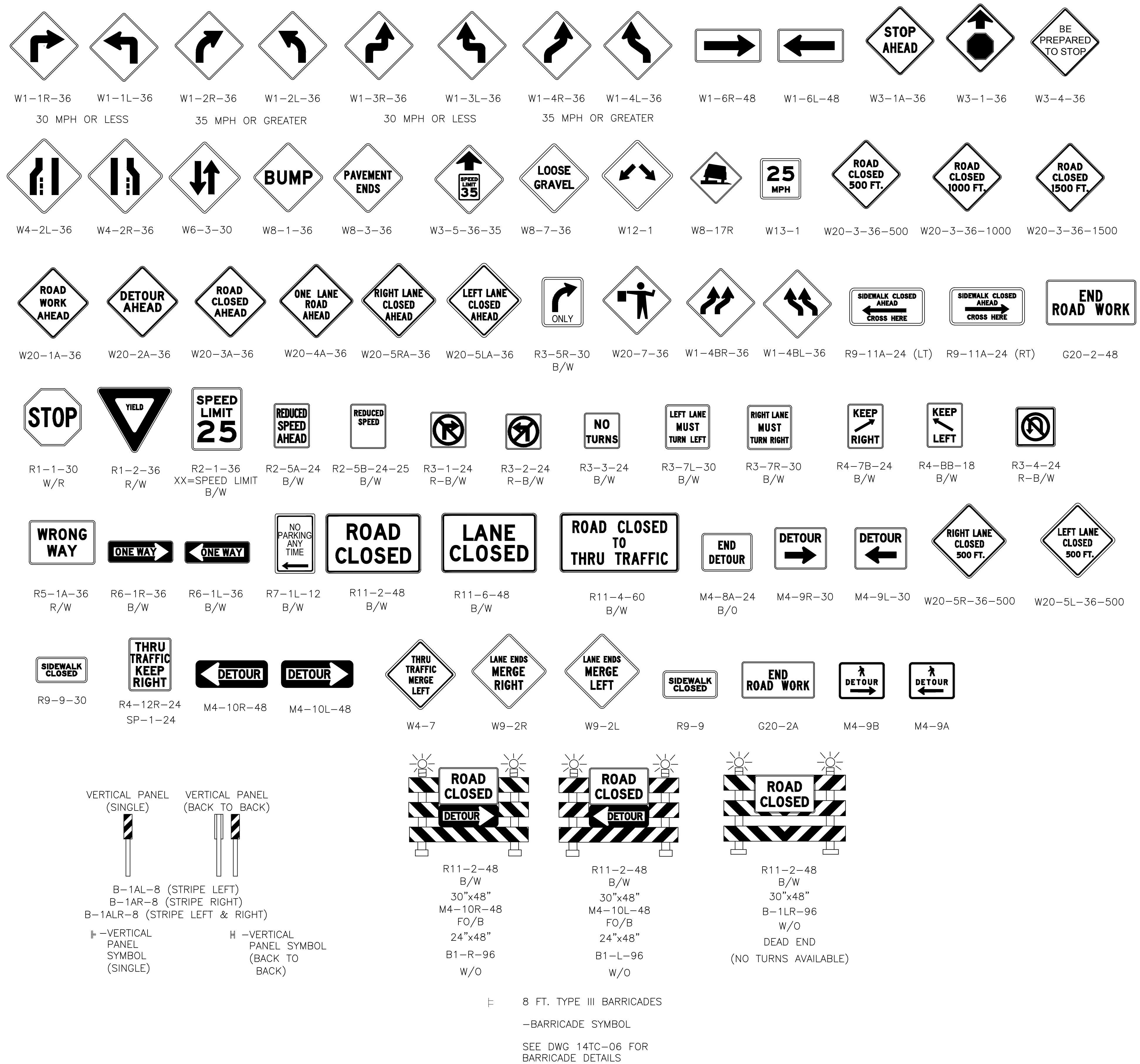
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	39	62

Date: 19 Feb 2015 - 3:05pm User: amguller
Drawing Name: CS01.dwg

SIGN FACE DETAILS

FOR CONSTRUCTION / MAINTENANCE – ALL SIGNS ARE BLACK ON FLUORESCENT ORANGE UNLESS OTHERWISE SPECIFIED EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE MOST CURRENT FOR PROPER ARRANGEMENT AND SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON THE PLANS.



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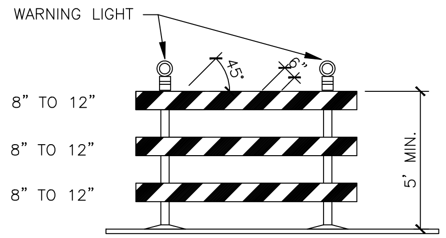
ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

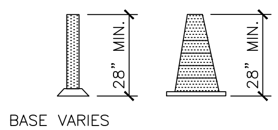
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
CONSTRUCTION SIGNING
SIGN FACE DETAILS

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

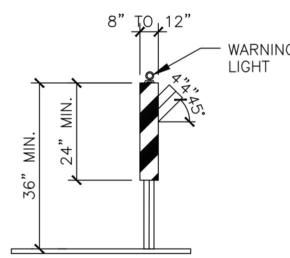
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	40	62



TYPE III BARRICADE

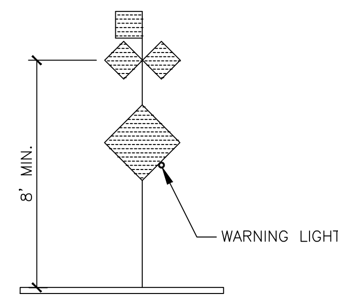


CONES



VERTICAL PANEL

NOTE: STRIPES SHALL SLOPE DOWNWARD TOWARD DIRECTION OF TRAVEL

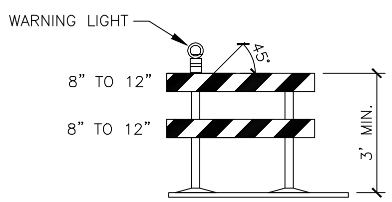


HIGH LEVEL WARNING DEVICE

LEGEND:

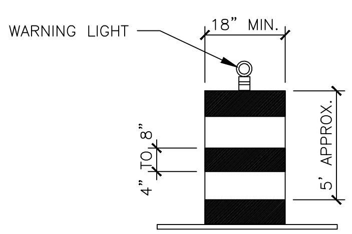
▨	WORK AREA
•	BARRICADE – TYPE I, TYPE II, VERTICAL PANEL, OR BARREL
⊣	BARRICADE – TYPE III
×	VERTICAL PANEL
⊣	WARNING SIGN
D	DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
⊠	FLAGMAN POSITION
S	SPACING BETWEEN BARRICADES – A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET
L	TAPER LENGTH – SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

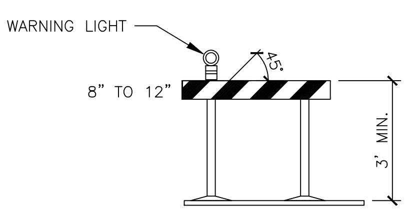


TYPE II BARRICADE COLLAPSIBLE

NOTE: STRIPES SHALL SLOPE DOWNWARD TOWARD DIRECTION OF TRAVEL

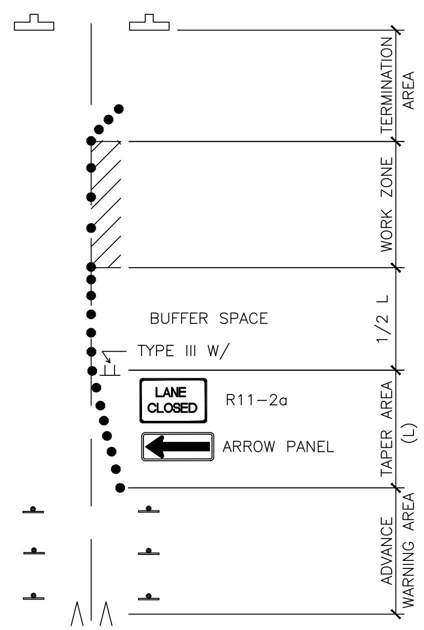


BARREL



TYPE I BARRICADE COLLAPSIBLE

NOTE: STRIPES SHALL SLOPE DOWNWARD TOWARD DIRECTION OF TRAVEL



TRAFFIC CONTROL ELEMENTS

TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L
SHIFTING TAPER	1/2 L
SHOULDER TAPER	1/3 L
ONE-LANE TWO-WAY TRAFFIC TAPER	50 TO 100 FEET
DOWNSTREAM TAPERS	50 TO 100 FEET

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

RECOMMENDED SIGN SPACING (D) F FOR ADVANCE WARNING SIGN SERIES:

100 FEET

SPACING OF CHANNELIZING DEVICES:

ON TAPER: 1.0 X SPEED LIMIT
ON TANGENT: 2.0 X SPEED LIMIT

AS BUILT INFORMATION
CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS
NO. DATE REMARKS BY

DESIGN
DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

HDR
2155 LOUISIANA BLVD NE, SUITE 9500
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ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT CONSTRUCTION SIGNING STANDARDS

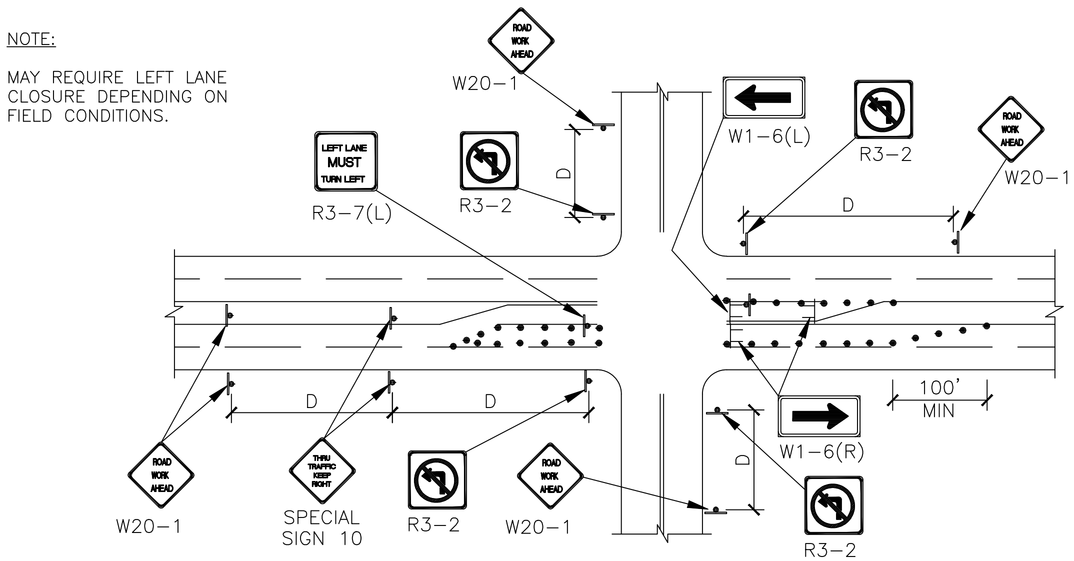
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	41	62

Date: 19 Feb 2015 – 3:05pm User: amguller
Drawing Name: CS03.dwg

NOTE:

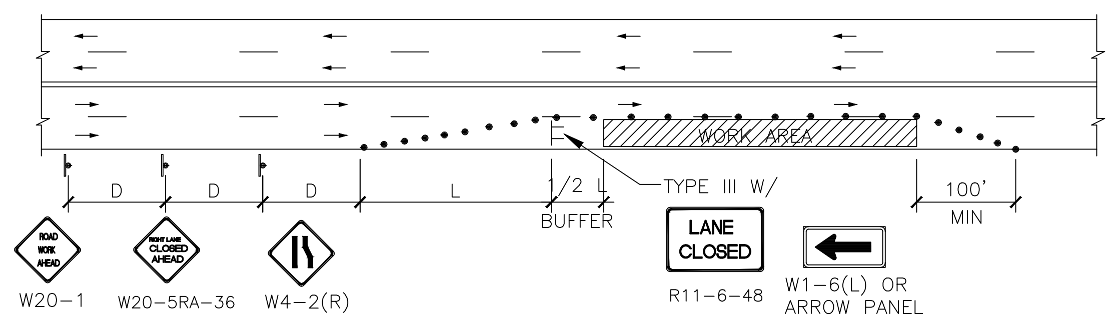
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



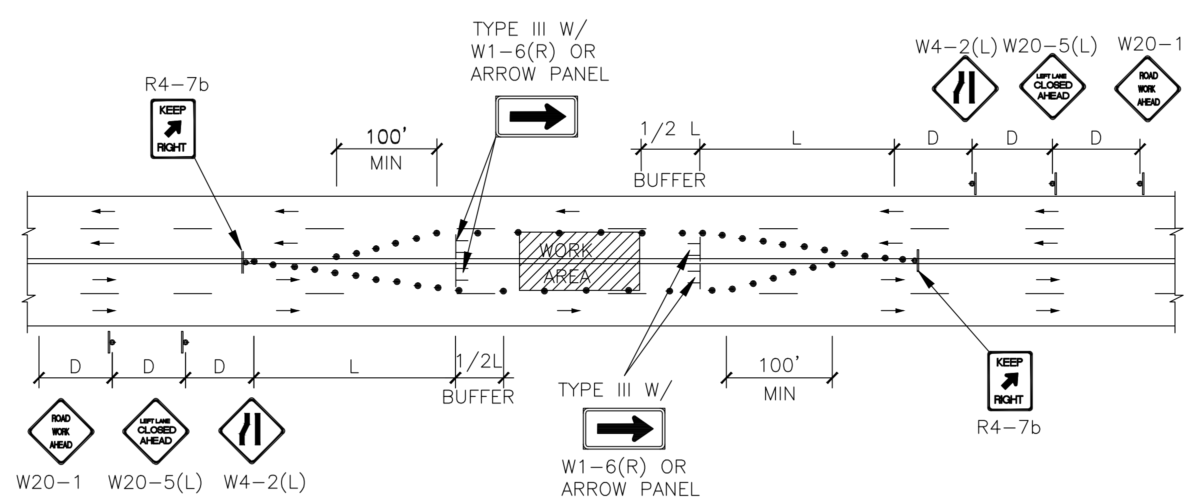
TYPICAL LANE CLOSURE AT INTERSECTION

NOTES:

1. DEPENDING ON WORK ZONE LOCATION.
2. MAY REQUIRE CLOSURE OF EITHER ONE OF TWO LEFT TURN LANES (WHERE APPLICABLE).



TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE

GENERAL NOTES:

1. ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A FLOURECENT ORANGE BACKGROUND.
2. ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" BY 36" IN SIZE AND SHALL HAVE ONE WARNING LIGHT.
3. SEE CITY OF ALBUQUERQUE STANDARD DRAWINGS 2803 FOR DEFINITION OF "D" AND "L".
4. ARROW PANEL REQUIRED FOR EACH LANE CLOSURE WITH MULTIPLE LANE CLOSURES ON ARTERIAL AND COLLECTOR STREETS.

AS BUILT INFORMATION

CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
NO.

BENCHMARKS

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SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

30% REVIEW

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02/2015

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

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ABQ RIDE

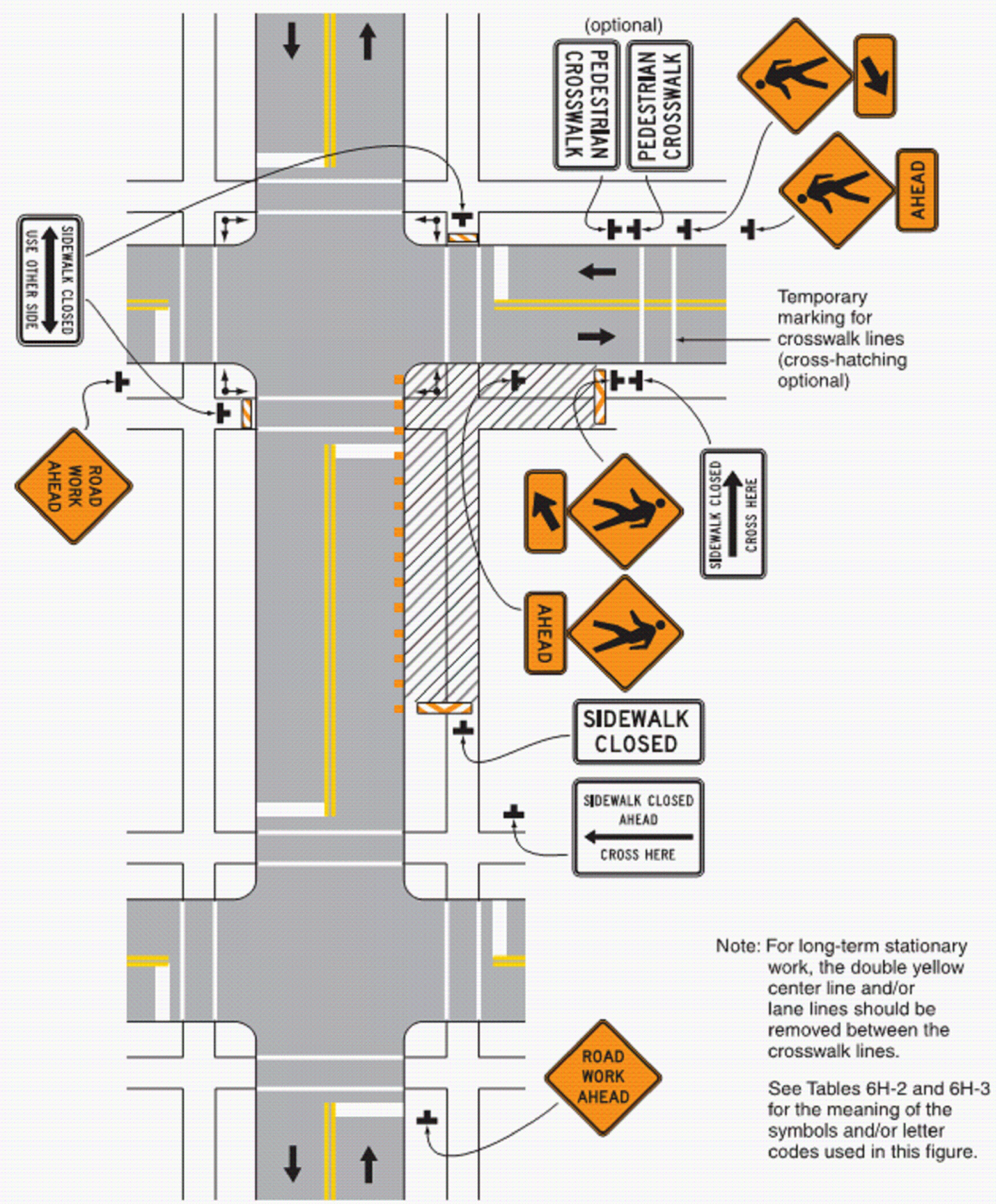
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT CONSTRUCTION SIGNING STANDARDS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	42	62

Figure 6H-29. Crosswalk Closures and Pedestrian Detours (TA-29)



Typical Application 29

MUTCD 2009

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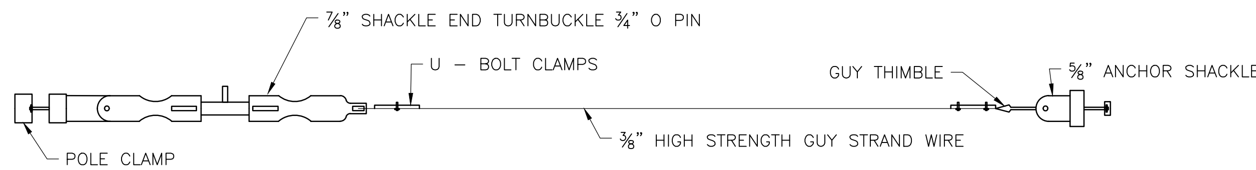
ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

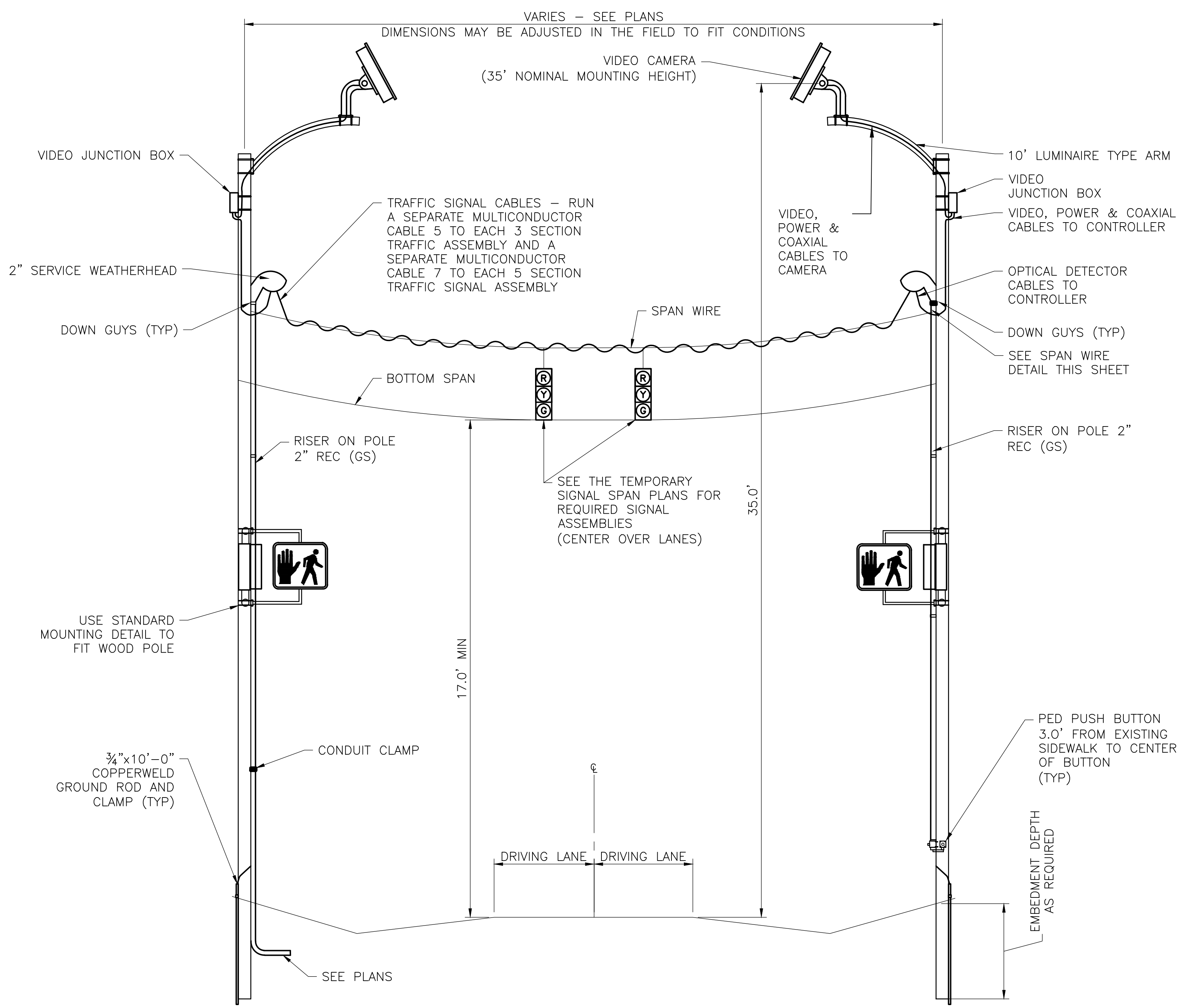
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
CONSTRUCTION SIGNING
TYPICAL PEDESTRIAN DETOUR

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	43	62



SPAN WIRE DETAIL
NOT TO SCALE



TYPICAL TEMPORARY SIGNAL SPAN DETAIL
NOT TO SCALE

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE:
INSPECTOR'S ACCEPTANCE BY	DATE:
FIELD VERIFICATION BY	DATE:
DRAWINGS CORRECTED BY	DATE:

MICRO–FILM INFORMATION

RECORDED BY	DATE:
NO.	

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ABQRIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
TEMPORARY TRAFFIC
SIGNAL DETAILS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	44	62

GENERAL NOTES FOR PAVEMENT MARKINGS

1. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARDS AND SPECIFICATIONS, CURRENT UPDATE OR THE NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2014 EDITION AND THE CURRENT MUTCD.
2. ALL REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 721 OF THE NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, CURRENT EDITION. PAINTING OVER EXISTING STRIPING DOES NOT CONSTITUTE APPROVED STRIPING REMOVAL OR OBLITERATION.
3. THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE PROJECT MANAGER.
4. THE CONTRACTOR MAY BE REQUIRED BY THE PROJECT MANAGER TO PREPARE AS-BUILT DRAWINGS OF THE EXISTING STRIPING AND PAVEMENT MARKINGS PRIOR TO CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL PAYMENT SHALL BE MADE THEREFORE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS ON FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED. THE LAYOUT OF ALL PAVEMENT MARKINGS SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO THE APPLICATION OF MATERIALS.
6. ALL LANE DIMENSIONS ARE FROM CENTER OF LANE STRIPE, CENTER OF DOUBLE LANE STRIPE, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. THE FINAL LONGITUDINAL STRIPING SHALL BE 60 MIL (0.060") THICK HOT THERMOPLASTIC STRIPING PLACED OVER THE TEMPORARY STRIPING WITHIN 14 TO 30 CALENDAR DAYS AFTER COMPLETION OF THE FINAL PAVEMENT SURFACE, OR AS DIRECTED BY THE PROJECT MANAGER. ALL OTHER MARKINGS SHALL BE APPLIED AT THE SAME TIME. TEMPORARY STRIPING SHALL BE PAINT UNLESS NOTED OTHERWISE.
8. ALL FINAL TRANSVERSE MARKINGS SHALL BE 90 MIL (0.090") HOT THERMOPLASTIC STRIPING. ALL PAVEMENT ARROWS AND LEGENDS SHALL BE HOT THERMOPLASTIC PAVEMENT MARKING.
9. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE PROJECT MANAGER BY SWEEPING AND AIR-JET BLOWING IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE TEMPERATURE SHALL NOT BE LESS THAN 50°F FOR THE PLACEMENT OF PLASTIC STRIPING.
10. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS AND STANDARDS WHEN INSTALLING PAVEMENT, STRIPING, MARKINGS AND MARKERS.
11. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25 INCHES AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.

INCIDENTAL ITEMS

1. SIGN MOUNTING HARDWARE AND BRACKETS PER GENERAL NOTES.
2. AS-BUILT RECORDS PER PAVEMENT MARKINGS GENERAL NOTE 4.
3. CLEANING AND REMOVAL OF DEBRIS FOR EXISTING SIGNS TO REMAIN PER PERMANENT SIGNS GENERAL NOTE 4.
4. REMOVAL OF SIGNS NOT DESIGNATED BUT REQUIRED PER PERMANENT SIGNS GENERAL NOTE 4.

GENERAL NOTES FOR PERMANENT SIGNS

1. ALL NEW SIGNS SHALL MEET THE MINIMUM REQUIREMENTS SPECIFIED IN THE MUTCD CURRENT EDITION.
2. ALL EXISTING SIGNS TO BE REPLACED, UNLESS DIRECTED OTHERWISE BY THE PROJECT MANAGER.
3. ANY SIGNS REQUIRED TO BE REMOVED AND RELOCATED SHALL BE PAID FOR UNDER ITEM XXXX REMOVE & RESET.
4. ALL EXISTING SIGNS THAT ARE INDICATED AS TO BE REMOVED AND SALVAGED SHALL BE SALVAGED TO THE CITY.
5. UNLESS SPECIFIED OTHERWISE, ALL NEW SIGNS SHALL BE MOUNTED ON A SINGLE 12 GAUGE POST, AS MANUFACTURED BY TELESPAR OR APPROVED EQUAL. POSTS SHALL BE SQUARE WITH DIMENSIONS AS FOLLOWS:
   1/2" x 1 1/2" NO PARKING SIGNS, BIKE LANE SIGNS
   1/4" x 2 1/4" ALL OTHER SIGNS
6. CONTRACTOR SHALL INSTALL A CORRESPONDINGLY SIZED 30 INCH LONG BASE POST WITH AN 18 INCH LONG BASE POST SLEEVE. SIGN POSTS SHOULD BE INSERTED 6 INCHES INTO THE BASE POST OR PER MANUFACTURER'S RECOMMENDATIONS.
7. ALL NEW SIGNS SHALL MEET THE REQUIREMENT AS SPECIFIED IN THE SIGN SHEETING REQUIREMENTS TABLE AS FOLLOWS:

SIGN SHEETING REQUIREMENTS:

SIGN	SIGN CODE	COLOR	LETTER SHEETING	BACKGROUND SHEETING
STOP	R1-1	(W/RED)	TYPE VIII OR IX	TYPE IX OR XI
YIELD	R1-2	(W/RED)	TYPE VIII OR IX	TYPE IX OR XI
DO NOT ENTER	R5-1	(W/RED)	TYPE VIII OR IX	TYPE IX OR XI
WRONG WAY	R5-1a	(W/RED)	TYPE VIII OR IX	TYPE IX OR XI
SCHOOL BUS SIGN	S3-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VIII OR IX	TYPE IX OR XI
SCHOOL BUS XING	S1-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VIII OR IX	TYPE IX OR XI
PEDESTRIAN XING	W11-2	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VIII OR IX	TYPE IX OR XI
BIKE XING	W11-1	(BLK/FLOURESCENT YELLOW GREEN)	TYPE VIII OR IX	TYPE IX OR XI
ALL SCHOOL/PED/BIKE SUPPLEMENTAL PLAQUES		(BLK/FLOURESCENT YELLOW GREEN) WHEREVER BLK/YELLOW IS SPECIFIED AS COLOR IN MUTCD	TYPE VIII OR IX	TYPE IX OR XI
ALL OTHER WARNING SIGNS & SUPPLEMENTAL PLAQUES		(BLK/FLOURESCENT YELLOW) WHEREVER BLK/YELLOW IS SPECIFIED AS COLOR IN MUTCD	TYPE VIII OR IX	TYPE IX OR XI
GUIDE & DESTINATION SIGNSINCLUDE EXTRUDED (OVERHEAD & GROUND MOUNTED)	ALL	(W/GREEN) EXCEPT WHERE SPECIFIED IN THE MUTCD	TYPE VIII OR IX	TYPE XI
GUIDE & DESTINATION SIGNSINCLUDE EXTRUDED (GROUND MOUNTED)	ALL	(W/GREEN) EXCEPT WHERE SPECIFIED IN THE MUTCD	TYPE VIII OR IX	TYPE IX OR XI
E-CODE SIGNS	E11-1, 1a, 1b, 1c	(BLK/FLOURESCENT YELLOW)	TYPE VIII OR IX	TYPE XI
RECREATIONAL & CULTURAL INTERESTS		(W/BROWN)	TYPE VIII OR IX	TYPE IV
GENERAL SERVICE	ALL	(W/BLUE)	TYPE VIII OR IX	TYPE IV
SPECIFIC SERVICE	ALL	(W/BLUE)	TYPE VIII OR IX	TYPE IV
ALL OTHER PERMANENT SIGNS	ALL	(BLK/WHITE) EXCEPT WHERE SPECIFIED OTHERWISE IN THE MUTCD	TYPE IV	TYPE IV

AS BUILT INFORMATION
CONTRACTOR | DATE:
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BENCHMARKS
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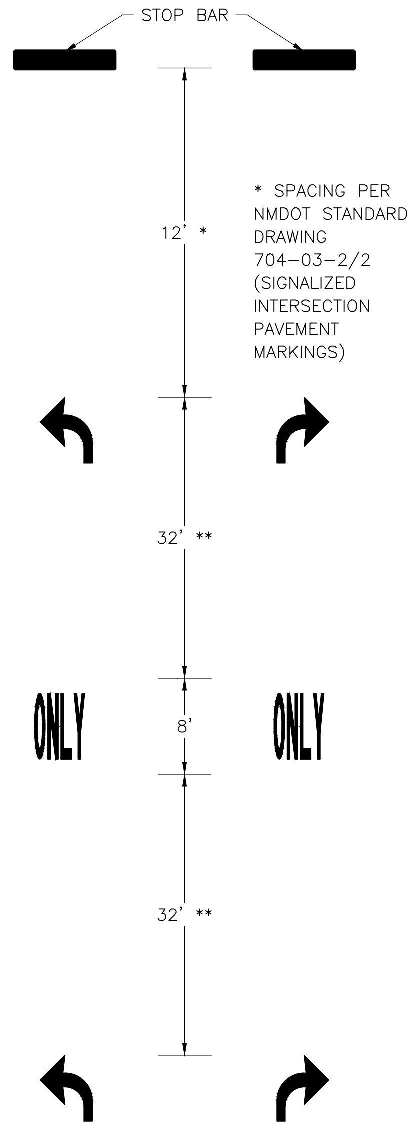
ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
PERMANENT SIGNING AND STRIPING
GENERAL NOTES

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

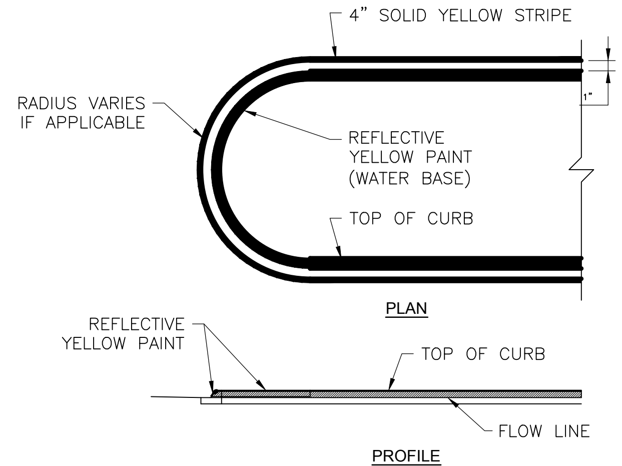
CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	45	62



TURN LANE TYPICAL
NOT TO SCALE

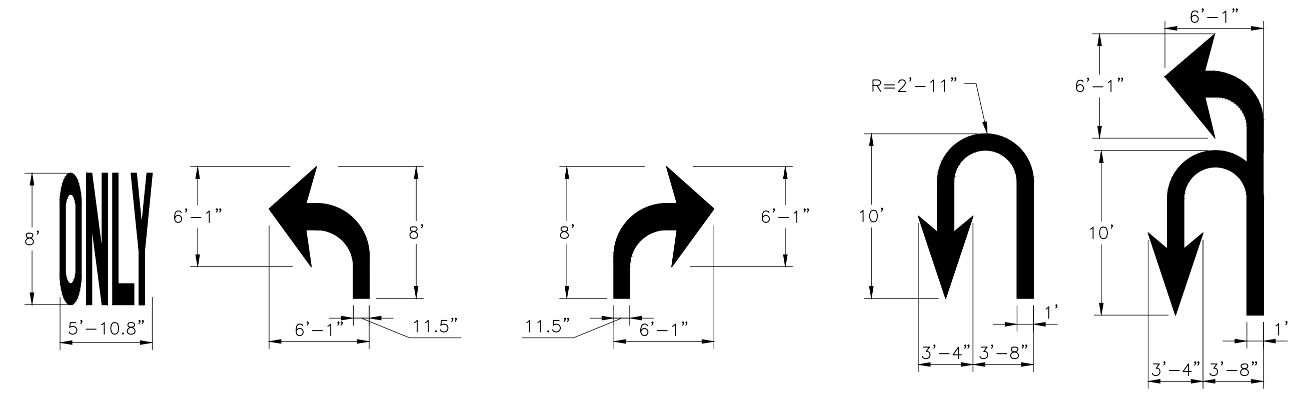
** SPACING PER NMDOT STANDARD DRAWING 704-03-1/2 PAVEMENT MESSAGE NOTE 2 OF 4

- THE LONGITUDINAL SPACE BETWEEN WORD OR SYMBOL MESSAGE MARKINGS, INCLUDING ARROW MARKINGS SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS, BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS UNDER ANY CONDITIONS. THE SPACE BETWEEN THE LINES MAY BE REDUCED APPROPRIATELY WHERE THERE IS LIMITED SPACE BECAUSE OF LOCAL CONDITIONS.

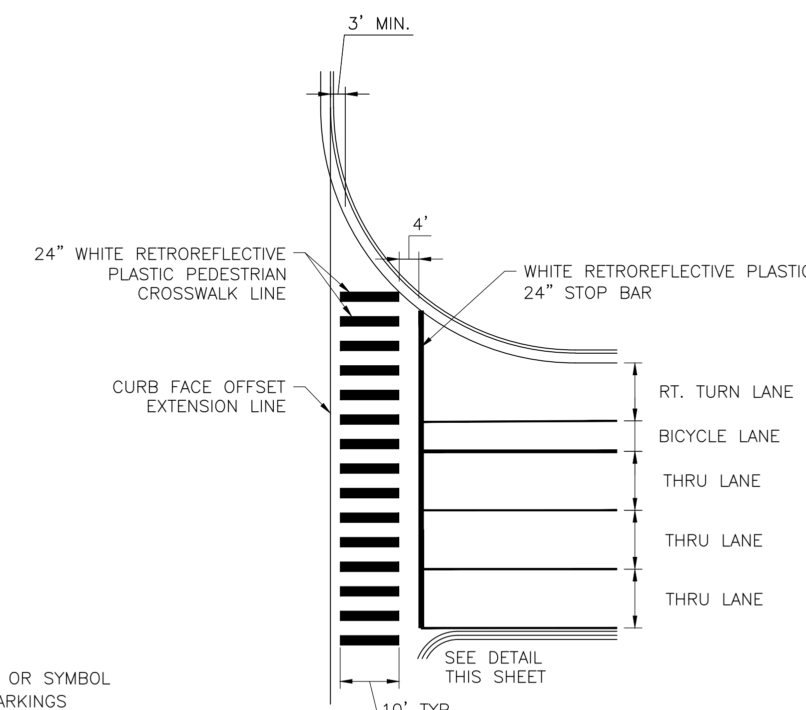


MEDIAN NOSE MARKING TYPICAL DETAIL
NOT TO SCALE

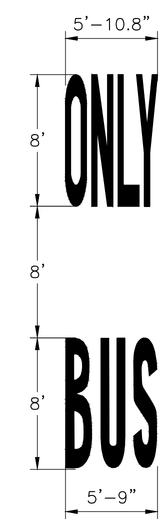
NOTE:
MEDIAN CURB SHALL BE PAINTED WITH REFLECTIVE YELLOW PAINT FROM NOSE TO NOSE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO SIGNING AND STRIPING AND NO ADDITIONAL PAYMENT SHALL BE MADE THEREFORE.



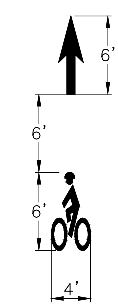
TYPICAL ROADWAY MESSAGE AND ARROW LAYOUT
NOT TO SCALE



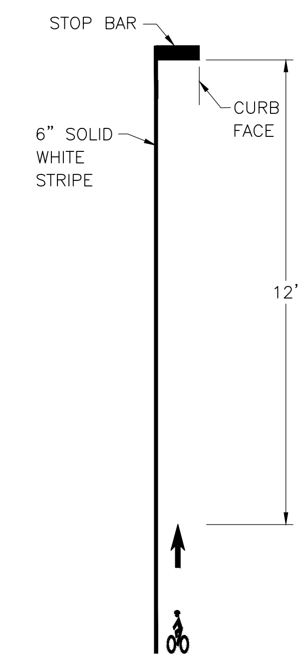
CROSSWALK & STOP BAR TYPICAL



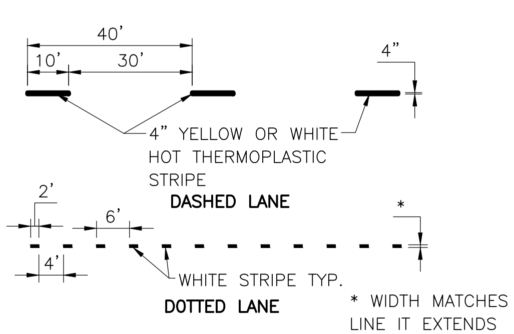
BUS ONLY DETAIL
NOT TO SCALE



BICYCLE SYMBOL & ARROW DETAIL
NOT TO SCALE

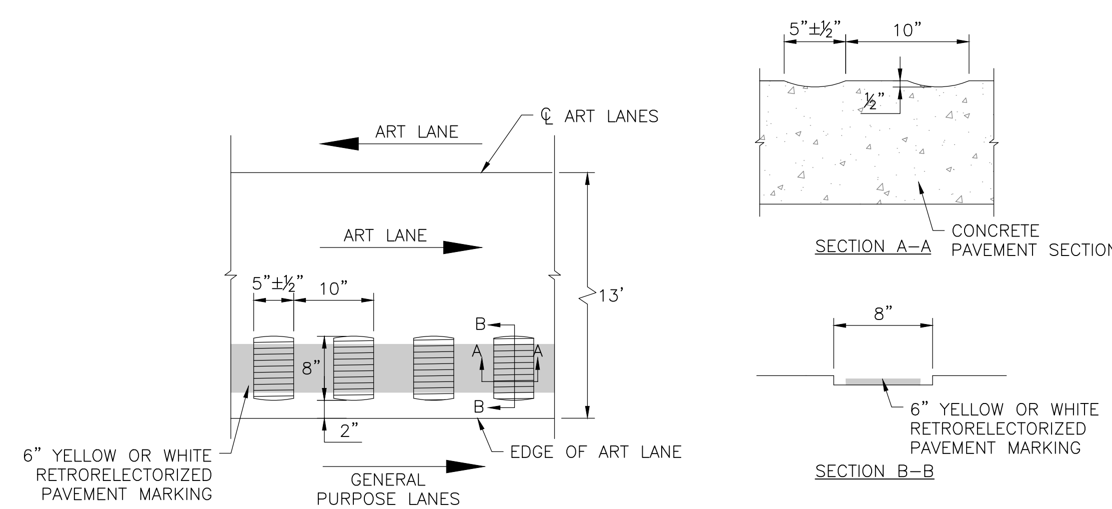


BICYCLE LANE TYPICAL
NOT TO SCALE



LANE STRIPE SPACING TYPICAL
NOT TO SCALE

CROSSWALK BAR SPACING DETAIL
NOT TO SCALE



RUMBLE STRIPE FOR ART LANES
NOT TO SCALE

AS BUILT INFORMATION

CONTRACTOR	DATE:
WORK STAKED BY	DATE:
INSPECTOR'S ACCEPTANCE BY	DATE:
FIELD VERIFICATION BY	DATE:
DRAWINGS CORRECTED BY	DATE:

MICRO-FILM INFORMATION

RECORDED BY	DATE:
NO.	

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: XX	DATE: 2/19/2015
DRAWN BY: XX	DATE: 2/19/2015
CHECKED BY: XX	DATE: 2/19/2015

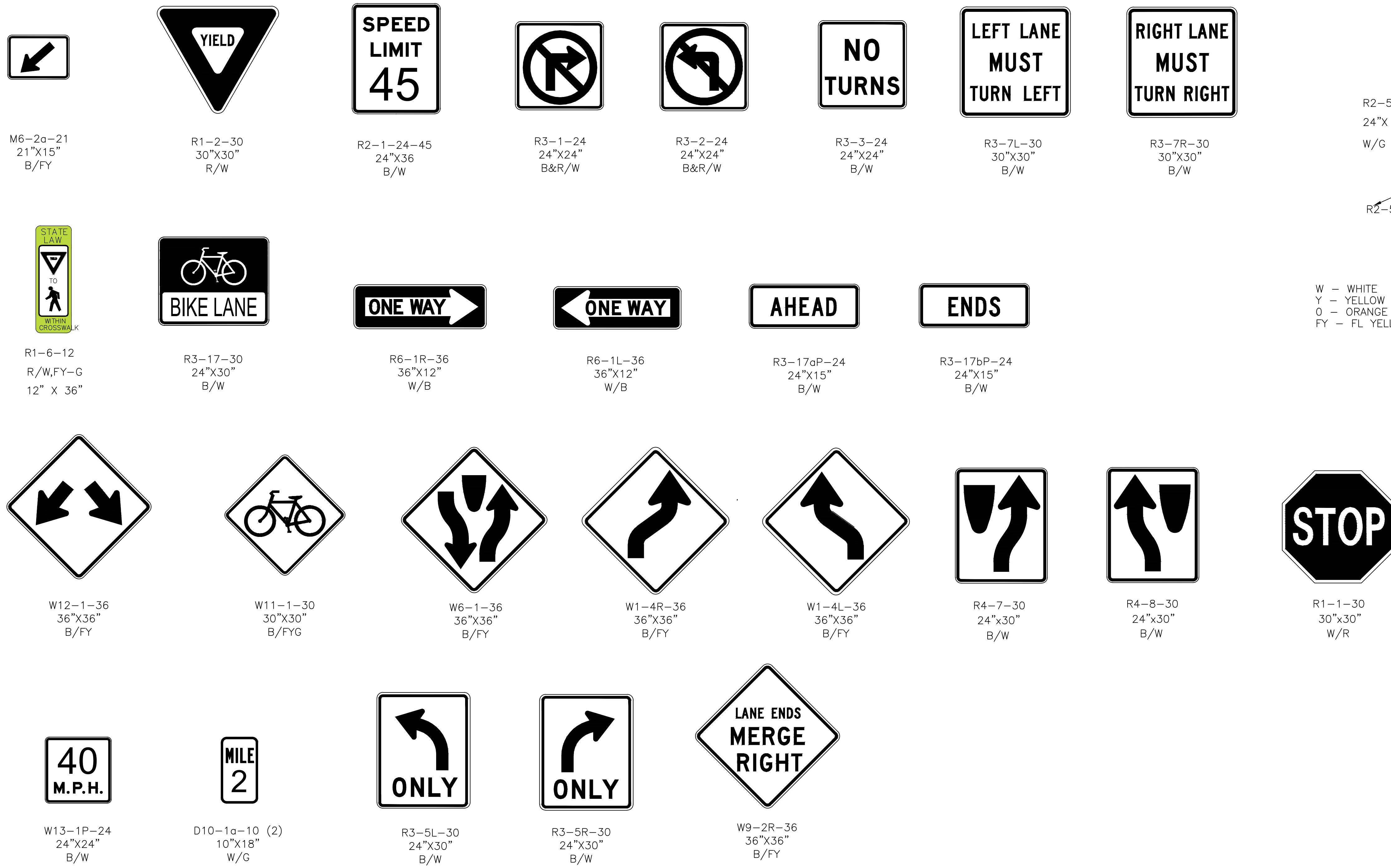
HDR
2155 LOUISIANA BLVD NE, SUITE 9500
ALBUQUERQUE, NM 87110
MAIN: (505) 830-5400
FAX: (505) 830-5454

ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT PERMANENT SIGNING AND STRIPING MARKING DETAILS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	46	62



SIGN LEGEND

R2-5a-24 — SIGN CODE
24"X 30" — SIGN DIMENSION
W/G — SIGN COLOR

R2-5a-24 — MUTCD SIGN CODE / MESSAGE VARIATION / HORIZONTAL DIMENSION

SIGN LEGEND

(LEGEND/BACKGROUND)

W - WHITE
Y - YELLOW
O - ORANGE
FY - FL YELLOW
B - BLACK
BL - BLUE
BR - BROWN
FYG- FL YELLOW GREEN
R - RED
G - GREEN
S - SILVER

AS BUILT INFORMATION
CONTRACTOR
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SURVEY INFORMATION
FIELD NOTES
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DESIGN
DESIGNED BY: RC DATE: 2/19/2015
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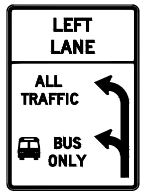
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
PERMANENT SIGNING AND STRIPING
SIGN FACE DETAILS

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

CITY PROJECT NO. 631991 | ZONE MAP NO. J12-13, K10-19 | SEGMENT NO. CS | SHEET 47 OF 62

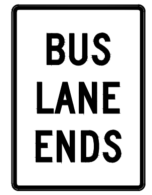
Date: 19 Feb 2015 - 3:06pm User: amguiler
Drawing Name: PS03.dwg

R3–11B–S2
30"X36"



R3–11B–S1
30"X42"

R3–12F–30
30"X42"



R3–12G–30
30"X42"

R3–12G–S1
30"X42"

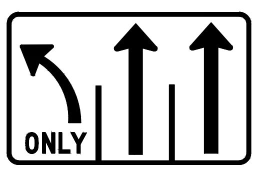
SP–1
24"X30"

W16–24–SP1
24"X12"
R3–4–24
24"X24"
B&R/W

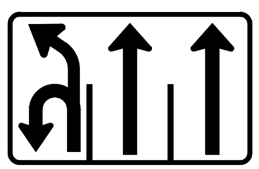
R3–8–30–SP1
30"X30"

R3–8–30–SP2
30"X30"

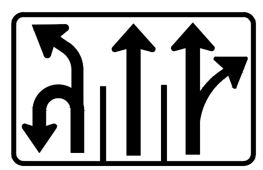
R10–5–24
24"X30"



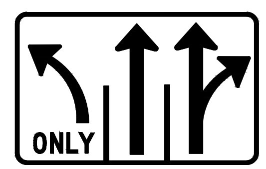
R3–8–48–SP1
48"X30"



R3–8–48–SP2
48"X30"

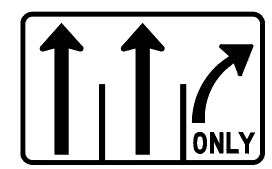


R3–8–48–SP3
48"X30"



R3–8–48–SP4
48"X30"

R3–8–48–SP5
48"X30"



R3–8–48–SP6
48"X30"

SIGN LEGEND

R2–5a–24 → SIGN CODE
W/G → SIGN COLOR
24"X 30" → SIGN DIMENSION
R2–5a–24 → MUTCD SIGN CODE, MESSAGE VARIATION, HORIZONTAL DIMENSION

SIGN LEGEND

(LEGEND/BACKGROUND)

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AS BUILT INFORMATION

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BENCHMARKS

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SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

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02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: XX — DATE: 2/19/2015
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ABQ RIDE

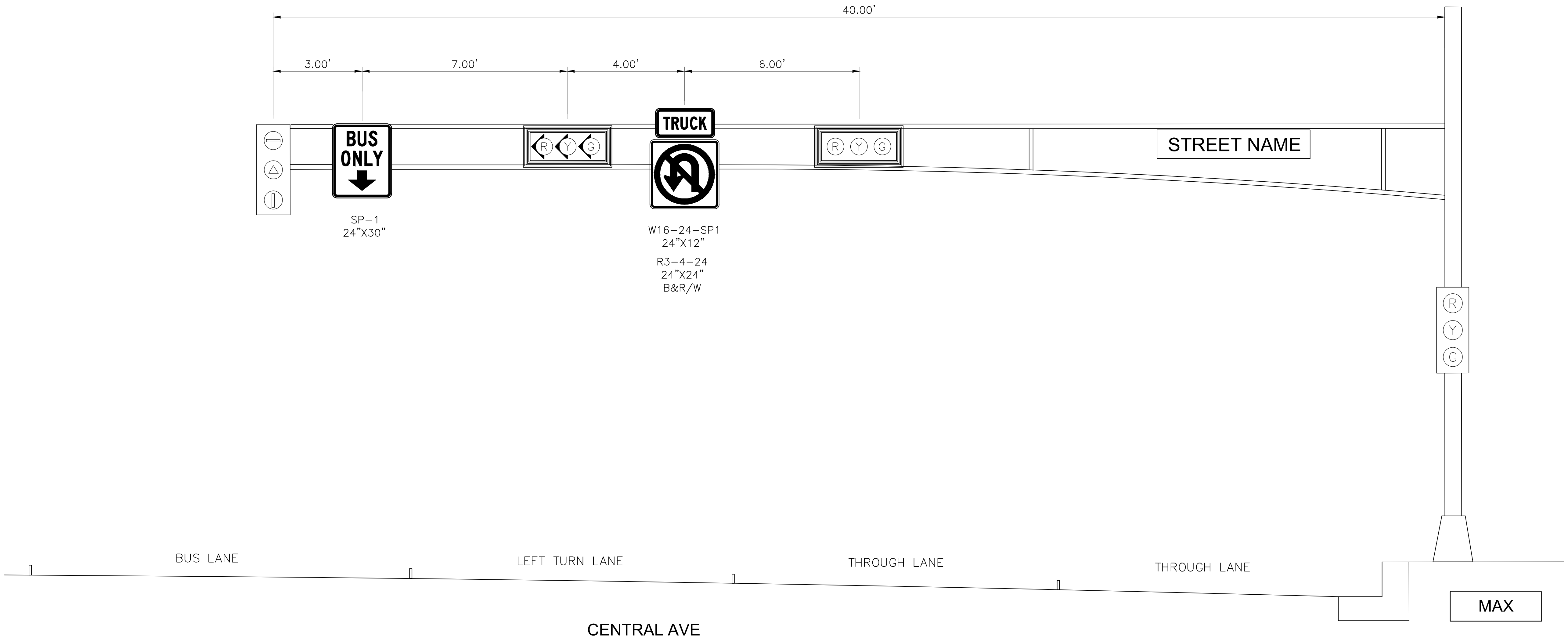
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
PERMANENT SIGNING AND STRIPING
SIGN FACE DETAILS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	48	62

Date: 19 Feb 2015 – 3:06pm User: amguller
Drawing Name: PS04.dwg



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ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
TYPICAL MASTARM SIGNING DETAIL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	49	62

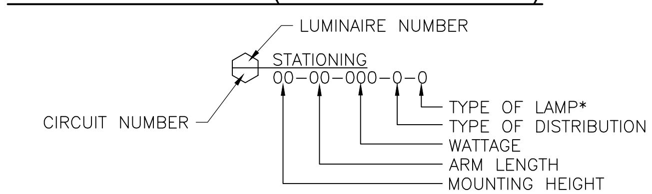
LIGHTING NOTES

1. LOCATIONS OF CONDUITS, FOUNDATIONS, PULL BOXES AND CONTROL 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 PROJECT MANAGER IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
2. ALL CONDUCTORS ON THIS PROJECT TO BE COPPER.
3. LIGHT STANDARDS SHALL HAVE BREAKAWAY COUPLINGS.
4. ALL LIGHTING CIRCUITS ON THIS PROJECT SHALL BE 240 VOLTS.
5. EACH TIME A ROADWAY LUMINAIRE, PEDESTRIANS LUMINAIRE IS TURNED ON OR OFF THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING REPRESENTATIVES:
   PNM | PUBLIC SERVICE COMPANY OF NEW MEXICO
   CITY OF ALBUQUERQUE
6. POWER SHALL NEITHER BE TURNED ON OR OFF UNTIL RESPONSIBLE PARTIES FOR EACH LIGHTING SYSTEM HAVE BEEN NOTIFIED.
7. RESPONSIBILITY AND MAINTENANCE OF LIGHTING SYSTEMS INSTALLED AS PART OF THIS PROJECT SHALL BE AS FOLLOWS:
   A. ROADWAY LIGHTING SYSTEM SHALL BE ACCEPTED, INSPECTED AND MAINTAINED BY CITY OF ALBUQUERQUE AND PNM, THE CONTRACTOR SHALL PROVIDE THE CITY OF ALBUQUERQUE AND PNM FIVE (5) WORKING DAYS NOTICE IN ADVANCE OF TURNING ON THE SYSTEM SO AS TO ALLOW THE CITY OF ALBUQUERQUE AND PNM TO INSPECT AND APPROVE THE SYSTEM BEFORE IT IS TURNED ON.
   B. PEDESTRIAN LIGHTING SHALL BE ACCEPTED, INSPECTED AND MAINTAINED BY THE CITY OF ALBUQUERQUE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND COST OF ENERGIZING ALL LIGHTING SYSTEM UNTIL SUCH TIME THAT THE APPROPRIATE OWNER AND MAINTAINING AGENCY ACCEPT THE RESPONSIBILITY FOR THEIR RESPECTIVE SYSTEMS - THIS IS INCIDENTAL AND NO ADDITIONAL PAYMENT SHALL BE MADE.
9. CONTRACTOR SHALL PAY FOR COSTS FOR PNM TO PROVIDE POWER SERVICE THESE COSTS WILL BE MEASURED AND PAID UNDER CONTRACT ITEM 421.016-POWER SERVICE INSTALLATION SEE SPECIAL PROVISIONS.
10. CONTRACTOR SHALL COORDINATE WITH THE POLE MANUFACTURER TO MATCH BOLT PATTERNS OF THE NEW DECORATIVE STANDARD. ALL EXISTING FOUNDATIONS TO BE REMOVED SHALL BE DISPOSED OF AND CONSIDERED INCIDENTAL TO REMOVAL OF STRUCTURES & OBSTRUCTIONS.
11. ALL LIGHTING CONTROL CABINETS SHALL INCLUDE PHOTO ELECTRIC CELLS.
12. THE DESIGN IS BASED UPON TYPE I, 250 WATT, HIGH PRESSURE SODIUM, FULL CUT OFF, FLAT GLASS LUMINAIRES, AND TYPE II, 150 WATT, HIGH PRESSURE SODIUM, FULL CUT OFF LUMINAIRES. THE CONTRACTOR SHALL FURNISH AND INSTALL THIS TYPE FIXTURE.
13. LIGHTING CONTROL CABINET TYPES AND LOCATIONS SHALL BE SHOWN IN THE CONSTRUCTION PLANS.
14. ANY LUMINAIRES DAMAGED DURING SETTING, OR REMOVING OF LIGHT STANDARDS SHALL BE REPLACED IN KIND AT CONTRACTORS EXPENSE.
15. ALL LIGHTING CONTROL CABINETS SHALL BE TESCO (OR APPROVED EQUAL). THE CONTRACTOR SHALL SUBMIT A COPY OF THE LIGHTING PLANS TO THE MANUFACTURER. THE MANUFACTURER SHALL REVIEW THE PLANS AND MODIFY THE EQUIPMENT IN EACH CABINET AS NECESSARY TO ACCOMMODATE LIGHTING REQUIREMENTS AS SHOWN IN PLANS. THE MANUFACTURER SHALL SUBMIT SHOP DRAWINGS OF EACH CABINET TO THE PROJECT MANAGER AND PNM FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURING OF CABINETS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CABINET AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
16. PNM WILL IDENTIFY EXISTING CIRCUITS. PNM WILL TIE THE NEW CIRCUITS INTO EXISTING CIRCUITS AS DIRECTED BY PROJECT MANAGER. THE CONTRACTOR SHALL USE APPROPRIATE CAUTION WHEN INTERCEPTING EXISTING CIRCUITS.
17. LIGHTS NEAR EXISTING OVERHEAD TRANSMISSION LINES MUST MAINTAIN VERTICAL CLEARANCE AND HORIZONTAL CLEARANCE FROM THE PHASE CONDUCTOR AS DIRECTED BY PNM. PNM WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
18. CONTRACTOR CANNOT REMOVE PNM POLES, AND SHALL COORDINATE REMOVAL OF COA POLES WITH COA PROJECT MANAGER.
19. PICK UP FROM STORAGE FACILITY, DELIVERY TO PROJECT SITE AND ASSEMBLY OF THE CITY FURNISHED LIGHT POLES AND LUMINAIRES WILL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 423.0X0, ORNAMENTAL POLE & LUMINAIRE (PED) INSTALLATION ONLY AND NO FURTHER PAYMENT WILL BE MADE THEREFOR. LIGHT POLES AND LUMINAIRES ARE STORED AT 4200 BOGAN AVENUE NE IN ALBUQUERQUE.
20. ALL LIGHTS WILL BE ORIENTED PERPENDICULAR TO THE ROADWAY CENTERLINE. THE ROADWAY LIGHT SHALL BE ORIENTED TOWARDS THE ROADWAY AND THE PEDESTRIAN LIGHT SHALL BE ORIENTED OVER THE SIDEWALK. THE LUMINAIRE SUPPORT ARM SHALL BE PERPENDICULAR TO THE LIGHT STANDARD. VISUAL EVALUATION AND APPROVAL BY THE PROJECT MANAGER WILL BE ACCEPTABLE.

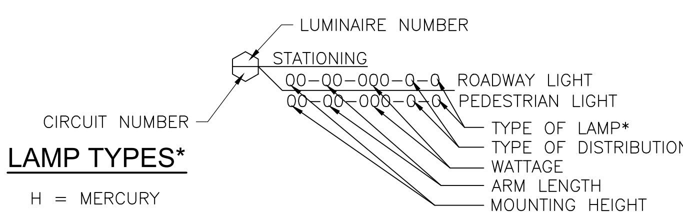
LIGHTING INCIDENTAL ITEMS

1. ANCHOR BOLTS FOR FOUNDATION.
2. GROUND RODS FOR FOUNDATION.
3. UNIVERSAL SUPPORT BRACKETS FOR SERVICE RISERS.
4. CONCRETE FOUNDATIONS FOR LIGHTING CONTROL CABINETS INCLUDING ELEVATION, BACKFILL, CONCRETE, GROUND RODS, AND ANCHOR BOLTS.
5. REWIRING OF EXISTING LUMINAIRES TO REMAIN, TO BE REMOVED, AND RESET, AND CONNECTIONS TO NEW CIRCUITS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
6. ALL SINGLE CONDUCTOR #10 COPPER WIRES CONNECTING THE MAIN CIRCUIT WIRING TO CORRESPONDING LUMINAIRES SHALL BE CONSIDERED INCIDENTAL TO COST OF POLES.
7. CONTRACTOR SHALL COORDINATE WITH THE CITY AND PNM ON THE REMOVAL OF THE EXISTING LIGHTING. A JOINT INVENTORY WILL BE CONDUCTED TO DETERMINE OWNERSHIP OF THE EXISTING LIGHTS. PNM WILL REMOVE (AT COST) EXISTING LIGHTS THAT ARE OWNED BY THEM. THE CONTRACTOR SHALL REMOVE CITY OWNED LIGHTS AND DELIVER ALL SALVAGED ITEMS TO COA TRAFFIC ENGINEERING PINO YARD. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFORE.
8. SINGLE CONDUCTOR #10 AWG COPPER WIRE CONNECTIONS FROM MAIN CIRCUIT TO LUMINAIRES.
9. REMOVAL OF EXISTING STANDARDS AND LUMINAIRES AND DELIVERED TO THE CITY OF ALBUQUERQUE.
10. SHOP DRAWING PREPARATION AND COORDINATION FOR LIGHTING CONTROL CABINETS.
11. ENERGY COST OF THE LIGHTING SYSTEM UNTIL ACCEPTANCE BY THE MAINTAINING AGENCY.
12. #6 AWG COPPER WIRE FOR GROUNDING.
13. (1) SHORTING CAP PER LUMINAIRE.
14. PICK UP FROM STORAGE, DELIVERY TO PROJECT SIDE AND ASSEMBLE OF CITY FURNISHED LIGHT POLES AND LUMINAIRES.

PEDESTRIAN LIGHT (SINGLE LUMINAIRE)



PEDESTRIAN & ROADWAY LIGHT (COMBINATION)



LAMP TYPES*

H = MERCURY
M = METAL HALIDE
S = SODIUM

LIGHTING LEGEND

NEW	EXISTING	ITEM
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		LIGHTING STANDARD WITH LUMINAIRE AS INDICATED
		CONDUIT RUN
		DUCT BANK
		PULLBOX
		SERVICE POLE WITH RISER
LC-X	LC-X	LIGHTING CABINET
		MANHOLE
X-XX (RUN ID, CIRCUIT ID)		CONDUIT RUN NUMBER
DBX		DUCT BANK
SX		SERVICE RISER RUN NUMBER

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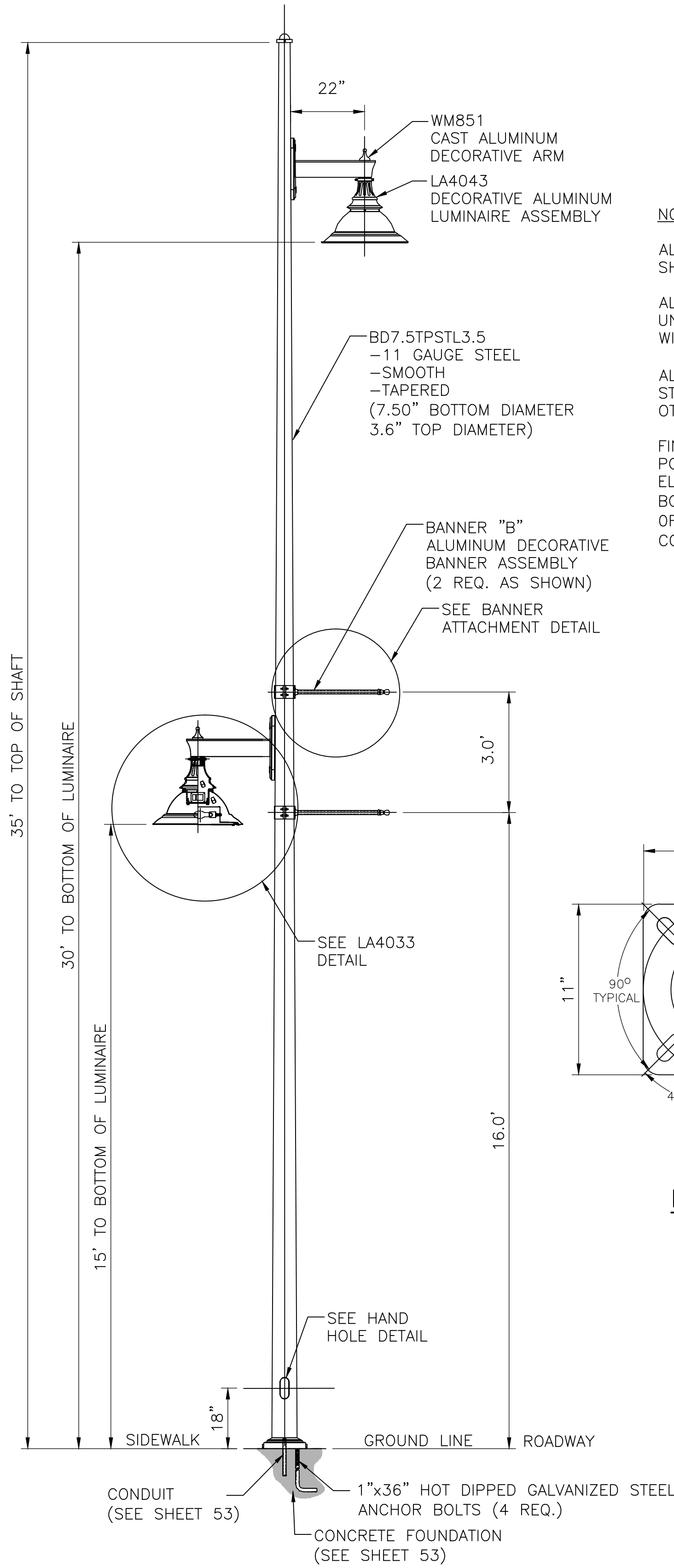
ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
PROPOSED LIGHTING GENERAL NOTES

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	50	62

DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015



COMBINATION: PEDESTRIAN / ROADWAY LIGHT

HAPCO PART NO. 16645P544

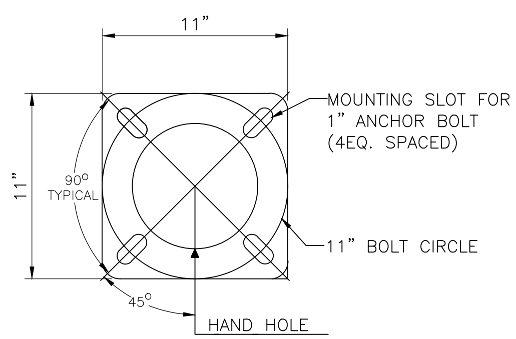
NOTES:

ALL ELECTRICAL COMPONENTS AND MATERIALS SHALL BE U-L RECOGNIZED.

ALL CAST ALUMINUM TO BE A-356 ALLOY. UNLESS OTHERWISE SPECIFIED, WITH UNIFORM THICKNESS.

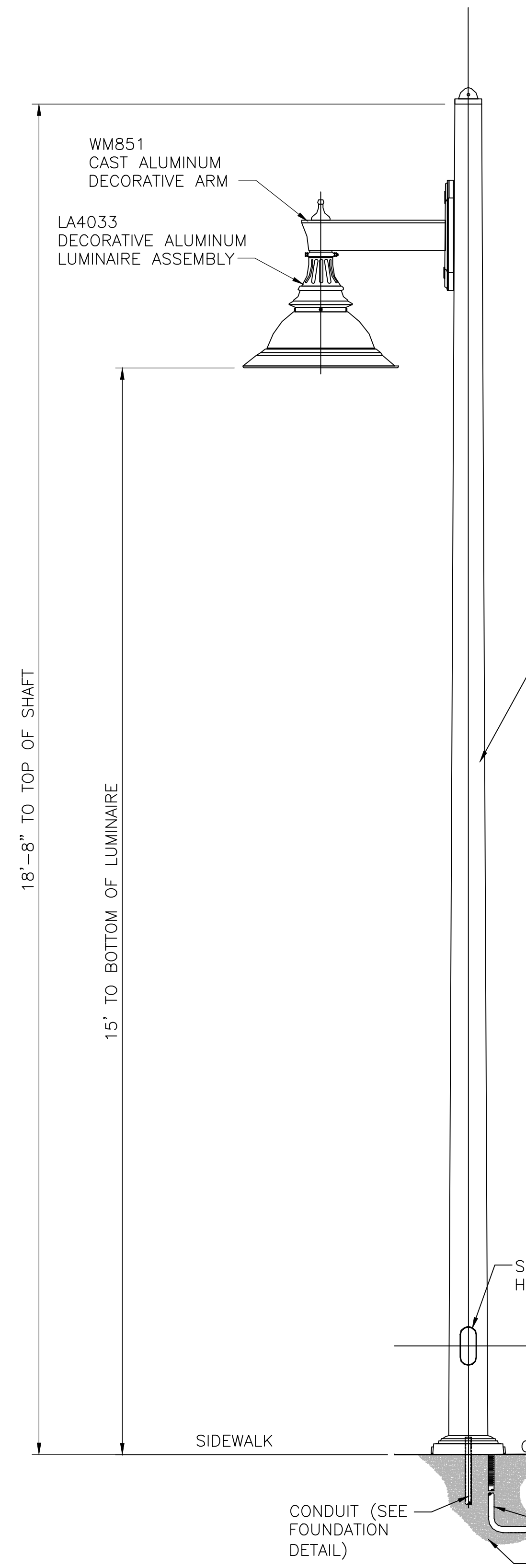
ALL FASTENERS .50" DIAMETER AND LESS TO BE STAINLESS STEEL, UNLESS OTHERWISE SPECIFIED.

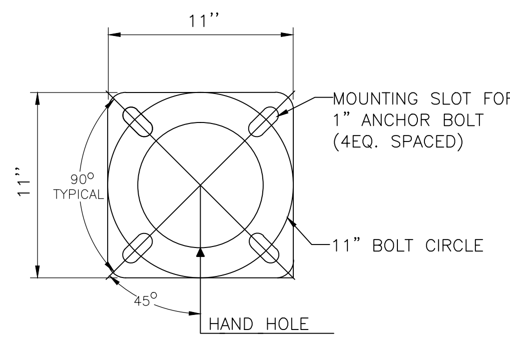
FINISH TO BE THERMOSET TGICSUPER POLYESTER POWDER COAT. FINISH ELECTROSTATICALLY APPLIED, OVEN CURED AND BONDED W/FILM THICKNESS OF 1.6 MILS. AND SHALL BE WHITE (EXACT COLOR FROM MFG.) RAL9016WHITE



MOUNTING DETAIL

NOTICE TO CONTRACTOR:
THESE DETAILS ARE ONLY TO BE USED FOR THIS SPECIFIC PROJECT. THESE DRAWINGS SHALL NOT BE USED ON OTHER CITY OF ALBUQUERQUE PROJECTS WITHOUT WRITTEN APPROVAL FROM THE CITY OF ALBUQUERQUE.





MOUNTING DETAIL

PEDESTRIAN SCALED LIGHT

HAPCO PART NO. 16646P544

HISTORICAL VINTAGE DETAIL

AS BUILT INFORMATION

CONTRACTOR | DATE:
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BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
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ABQ RIDE

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TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
PROPOSED LIGHTING DETAILS

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

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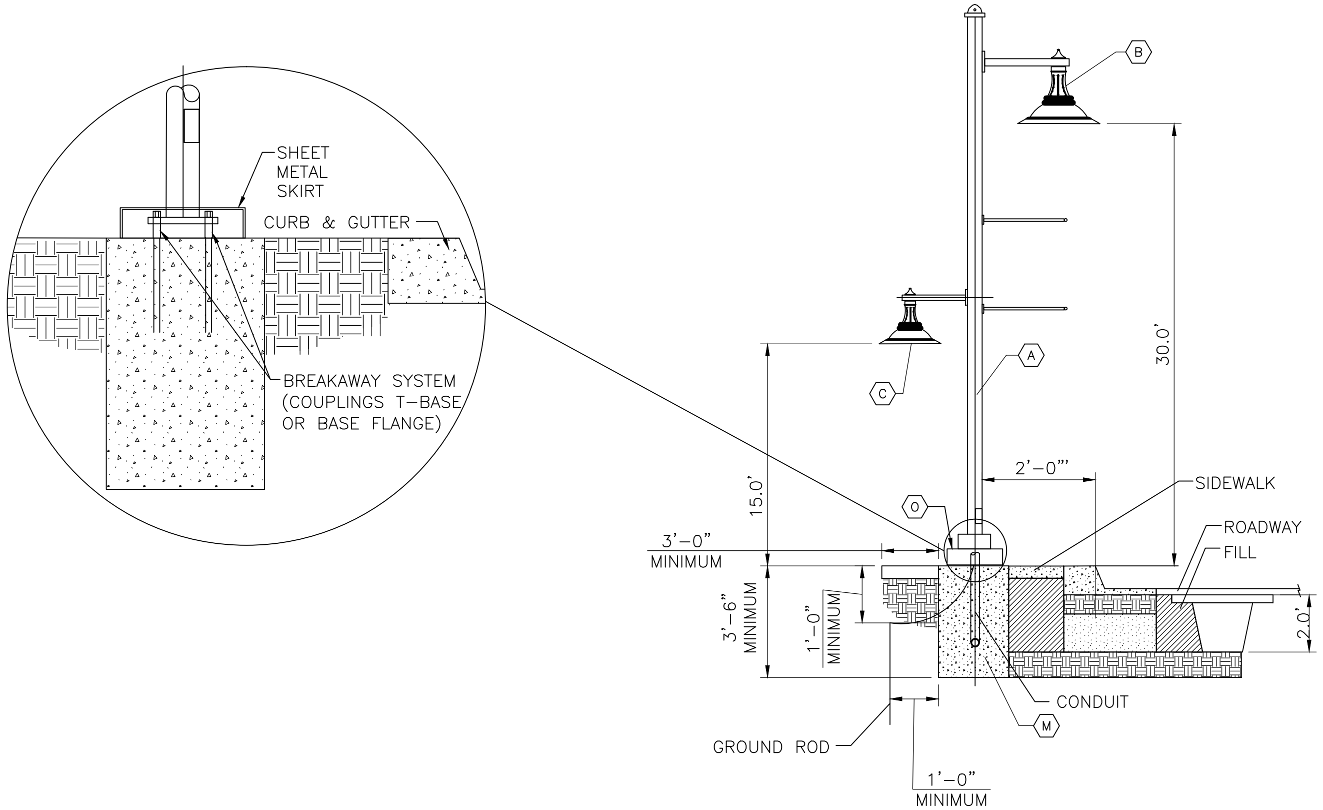
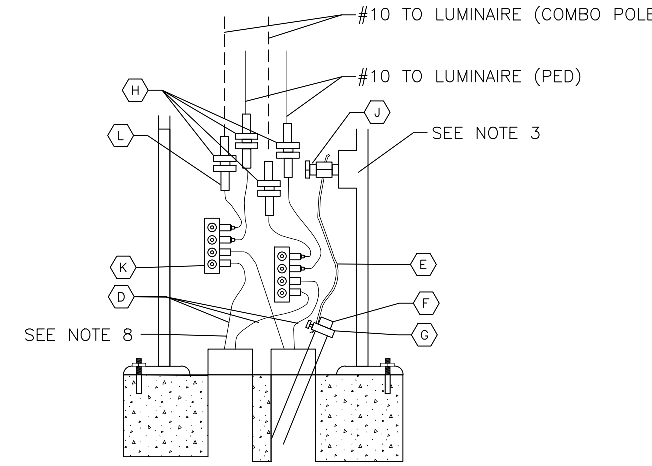
631991	J12-13, K10-19	CS	51	62



DETAIL A (N.T.S.)



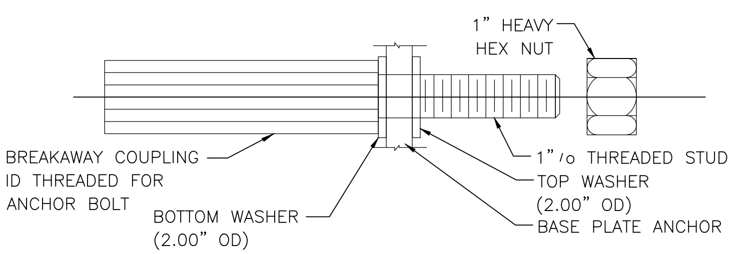
GROUNDING DETAIL

MATERIALS LIST		
ITEM	QUANT.	DESCRIPTION
A	1	30' ALUMINUM POLE
B	1	250W HPS 240V LUMINAIRE*
C	1	150W HPS 240V LUMINAIRE**
D	1	600V 2/C #2 UF CU CABLE
E	1	#6 CU WIRE
F	1	5/8" X 8' GROUND ROD
G	1	5/8" GROUND ROD CLAMP
H	1	FUSE HOLDER
J	1	STREETLIGHT POLE GROUNDING LUG
K	2	FOUR-WAY STREETLIGHT CONNECTORS
L	2	5A LIMITRON FUSE
M	1	POUR IN PLACE FOUNDATION
N	1	#2 CU TRIPLEX
O	1	9" BREAKAWAY BASE FOR 30' POLE

* FOR COMBINATION POLE ASSEMBLY
** FOR PEDESTRIAN SCALED LUMINAIRE

NOTES:

1. FOR CUSTOMER OWNED AND DESIGNED SYSTEMS ONLY
2. LEVEL LUMINAIRE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
3. WHEN SYSTEM NEUTRAL IS AVAILABLE, GROUND TO POLE
4. POLE MUST BE AT LEAST 4' FROM A FIRE HYDRANT
5. POUR IN PLACE FOUNDATIONS – MUST CURE FOR 14 DAYS BEFORE ERECTING POLE



DIMENSION TABLE							
D	THREAD	MINIMUM TENSILE STRENGTH	RESTRAINED SHEAR MIN	RESTRAINED SHEAR MAX	NUT TORQUE +25 FT LBS	L	E
1"	8 UNC	25 KIPS	30 KIPS	7.5 KIPS	175	4-3/4"	3-5/16"

BREAKAWAY SUPPORT COUPLING SHALL CONFORM TO THE REQUIREMENTS OF AASHTO STANDARDS FOR BREAKAWAY SUPPORTS.

COUPLINGS SHALL BE FABRICATED FROM EITHER DIE CAST ALUMINUM ALLOY 380 ACCORDING TO ASTM B-85, OR EXTRUDED FORM ALLOY 2024-T8511 ACCORDING TO ASTM A-153.

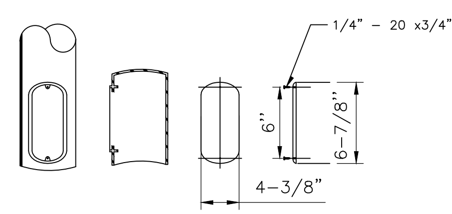
WASHERS SHALL BE FABRICATED FROM ASTM A-36 STEEL PLATE AND SHALL BE GALVANIZED ACCORDING TO ASTM-153.

HEX NUTS SHALL MEET THE REQUIREMENTS AO ASTM A-563 GRADE A, AND ANSI 18.2.2 HEX TYPE AND SHALL BE GALVANIZED ACCORDING TO ASTM A-153.

THREADED STUD SHALL MEET THE REQUIREMENTS OF ASTM 675 GRADE 90 AND IS GALVANIZED WITH ASTM A-153, OR IS FABRICATED FROM AISI STAINLESS STEEL.

WHEN COUPLINGS ARE FURNISHED, EACH LIGHT POLE SHALL BE FURNISHED WITH FOUR(4) COUPLINGS AND THREADED STUDS, EIGHT (8) FLAT WASHERS, AND FOUR (4) HEX NUTS.

BREAKAWAY BOLT DETAIL



HANDHOLE REINFORCEMENT SHALL BE EITHER FORGED STEEL CONFORMING TO ASTM A-576. GRADE 1021, OR FABRICATED FROM 3/16" WALL TUBING CONFORMING ASTM A-39;OR CAST FROM STEEL CONFORMING TO ASTM A-27. GRADE 65-35, OR FABRICATED WITH 6" STANDARD BLACK PIPE (0-0.280" WALL) ASTM A-53 GRADE B.

REINFORCEMENT SHALL BE WELDED TO THE POLE SHAFT IN THE 90 DEGREE LOCATION, PRIOR TO GALVANIZING/POWDER-COATING POLE SHAFT. COVER SHALL BE FABRICATED FROM 3/16" SHEET STEEL OR ALUMINUM. STEEL COVER IS GALVANIZED/POWDERCOATED ACCORDING TO ASTM A-153. COVER SHALL BE EQUIPPED WITH TWO(2) AISA 304 STAINLESS STEEL 1/4"-20 x 3/4" HEX CAP SCREW AND TWO(2) CAPTIVE WASHERS.

PROVISIONS FOR INTERNAL GROUNDING SHALL BE PROVIDED BY A TAPERED HOLE.

HANDHOLE REINFORCEMENT SHALL STRENGTHEN POLE SHAFT SECTION TO THAT OF A SHAFT FABRICATED WITHOUT A HANDHOLE.

HANDHOLE DETAILS

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BENCHMARKS
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ABQ RIDE

CITY OF ALBUQUERQUE
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TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
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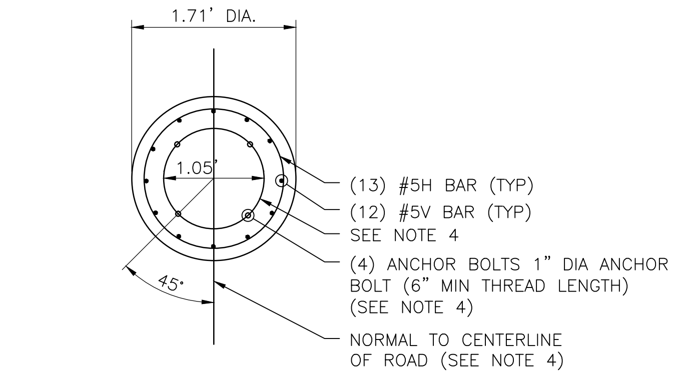
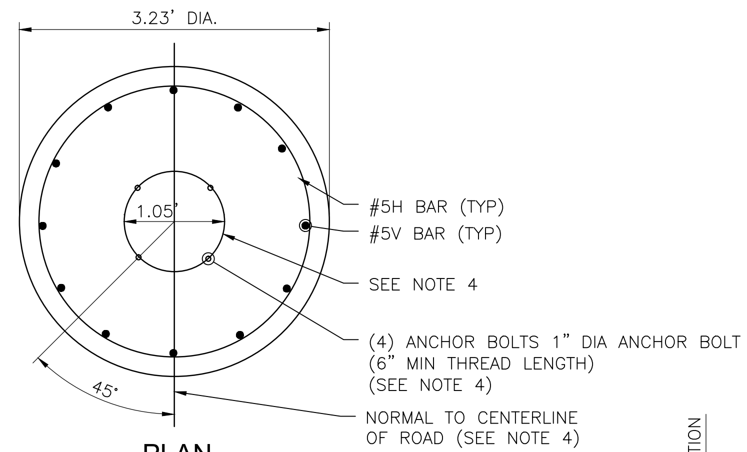


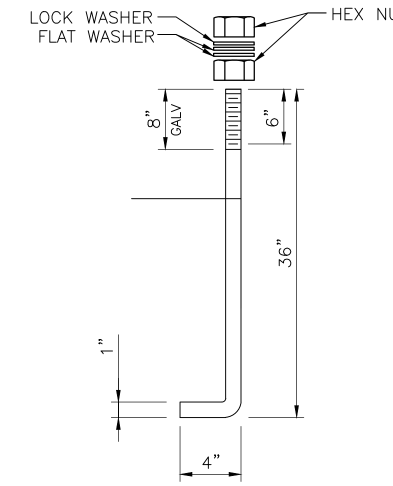
REDUCED DIAMETER PLAN

GENERAL NOTES

1. ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION. NO PRICE OR PAYMENT SHALL BE MADE THEREFORE.
2. WELDING SHALL BE IN ACCORDANCE WITH SECTION 1.4.2 OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
3. ALUMINUM STANDARDS SHALL UTILIZE AN APPROVED BREAKAWAY COUPLINGS WHICH SHALL BE CONSIDERED INCIDENTAL TO THE LIGHTING STANDARD.
4. VERIFY ANCHOR SIZE, MATERIAL REQUIREMENTS, AND PLACEMENT WITH LIGHT POLE MANUFACTURER.



PLAN



ANCHOR BOLTS SHALL BE HOT BENT AND SHALL MEET THE REQUIREMENTS OF ASTM A-675 GRADE 90, NUTS MEET THE REQUIREMENT OF ASTM A-563 GRADE A, AND ANSI B18.2

FLAT WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B27.2 HEAVY WASHERS.

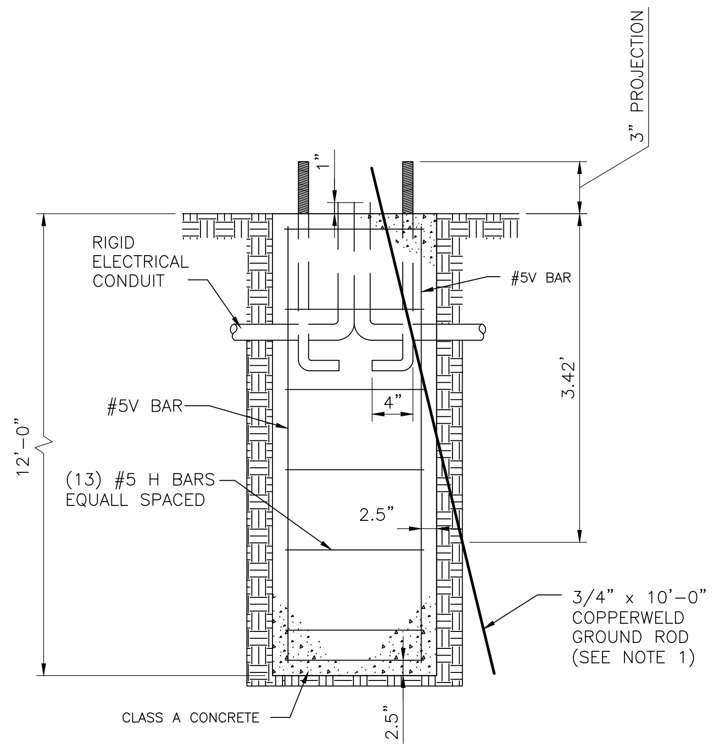
LOCK WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B18.21.1 HEAVY WASHERS.

BOLTS, NUTS, AND LOCKWASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153.

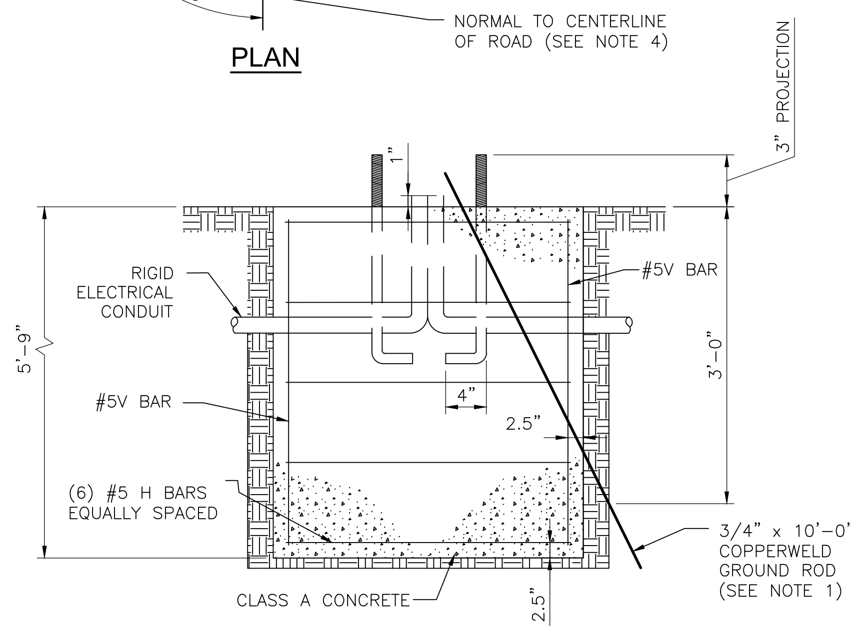
FOUR (4) ANCHOR BOLTS. EIGHT (8) HEX NUTS, EIGHT (8) FLAT WASHERS, AND FOUR (4) LOCK WASHERS SHALL BE FURNISHED WITH EACH POLE.

NUTS, FLAT WASHERS AND LOCK WASHERS FOR BREAKAWAY SUPPORTS SHALL BE SPECIFIED ON DETAILS.

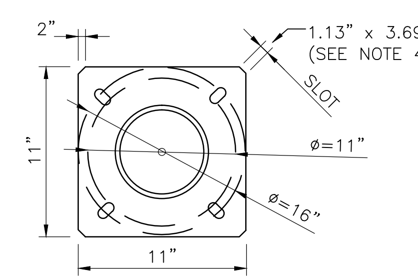
ANCHOR BOLT DETAIL



REDUCED DIAMETER ELEVATION



ELEVATION

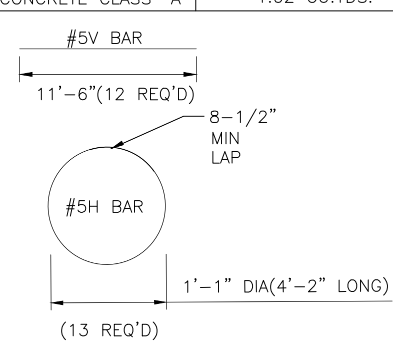


ESTIMATED FOUNDATION QUANTITIES	
ITEM	30' MOUNTING HEIGHT
REINFORCING BARS, GRADE 60	200 POUNDS
PORTLAND CEMENT CONCRETE CLASS "A"	1.02 CU.YDS.

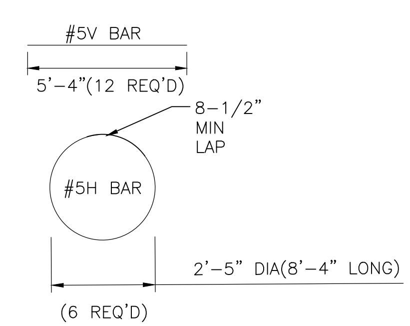
ESTIMATED FOUNDATION QUANTITIES	
ITEM	30' MOUNTING HEIGHT
REINFORCING BARS, GRADE 60	120 POUNDS
PORTLAND CEMENT CONCRETE CLASS "A"	1.75 CU.YDS.

ANCHOR BASE SHALL BE FABRICATED FROM PLATE STEEL CONFORMING TO ASTM A-36 AND SHALL BE WELDED TO POLE SHAFT PRIOR TO GALVANIZING/POWDER COAT

ANCHOR BOLT DETAIL



REINFORCING BARS FOR REDUCED DIAMETER SHAFT



REINFORCING BARS

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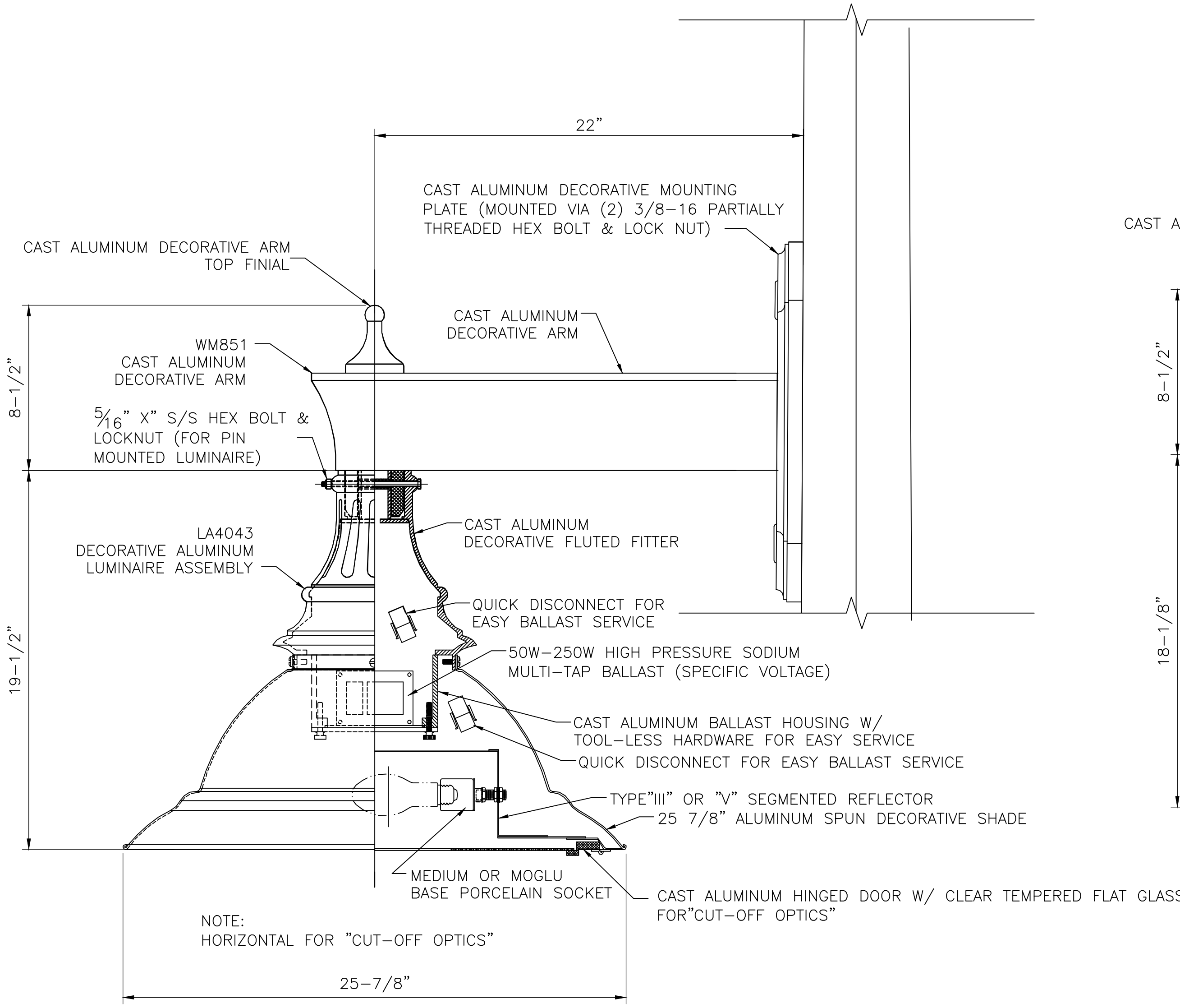
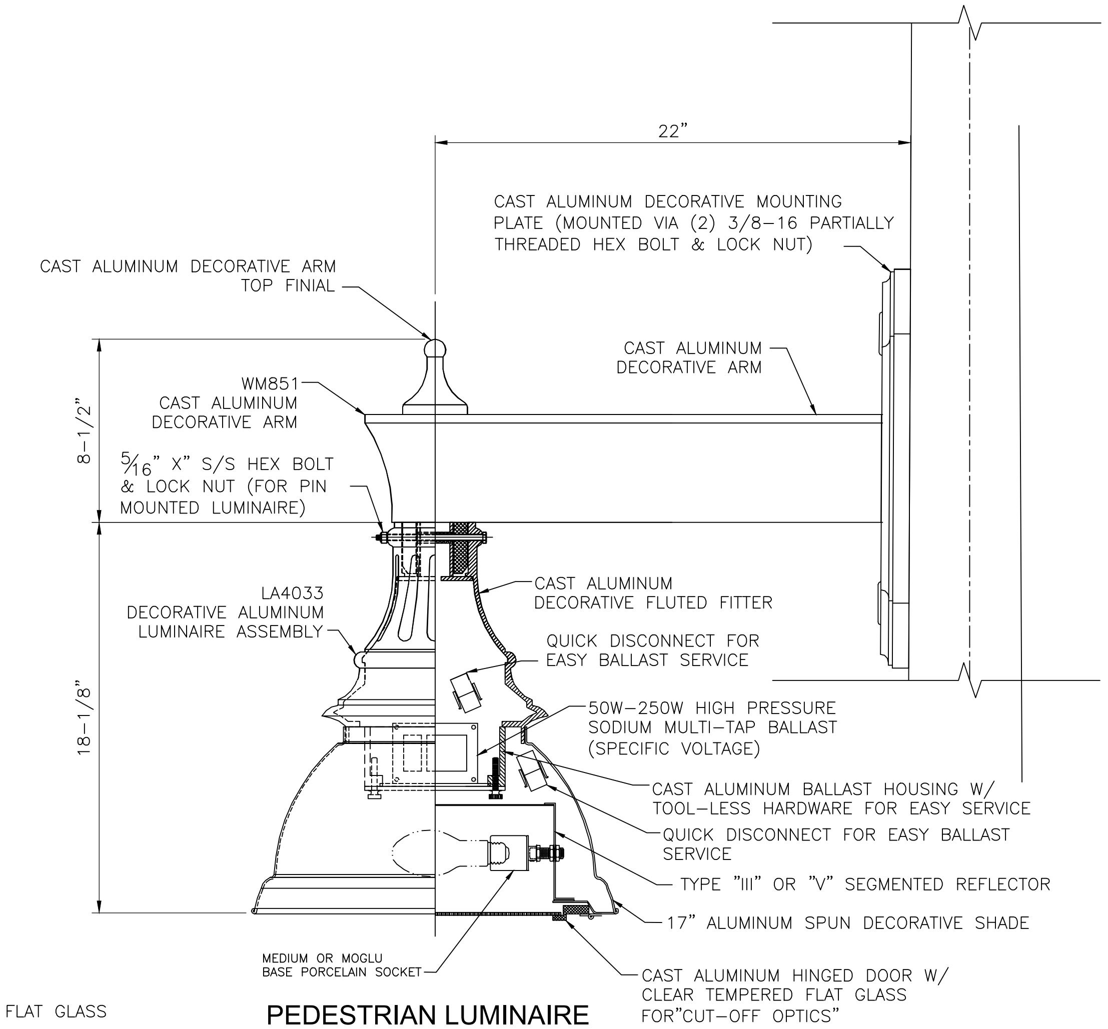
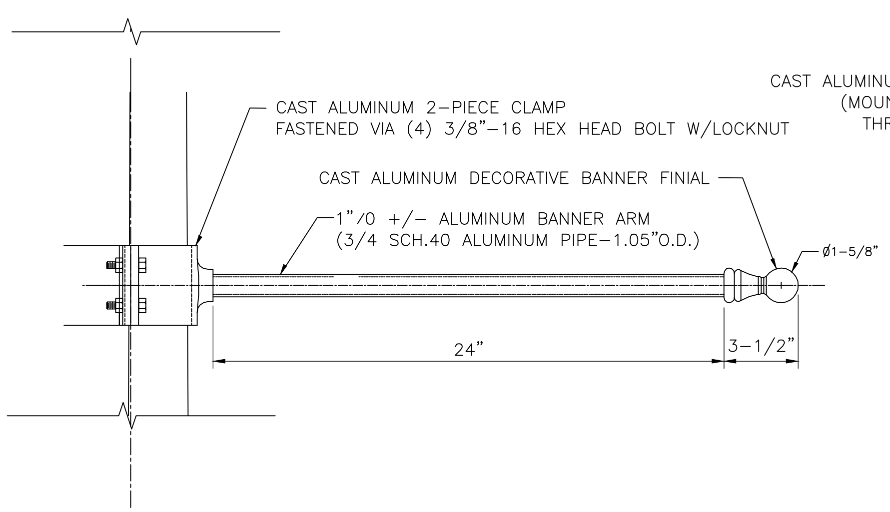


ROADWAY LUMINAIRE

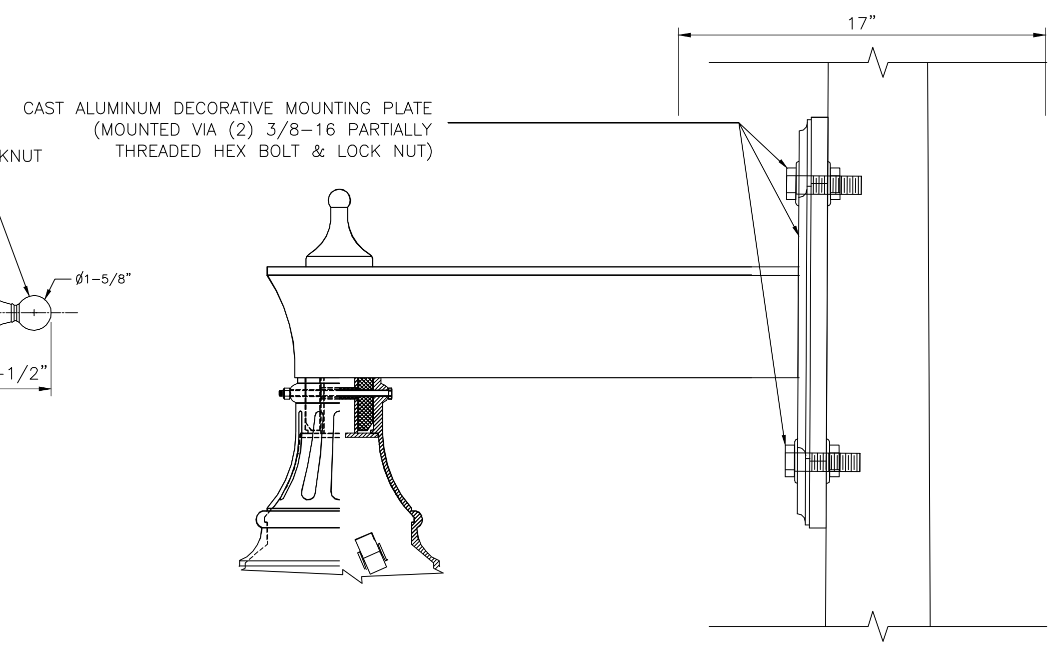


PEDESTRIAN LUMINAIRE

NOTES:
1. HORIZONTAL FOR "CUT-OFF OPTICS"
2. LUMINAIRES LA 4043 SHALL BE 150W, HPS ELA PART NO. CBH/PD/H3/150HPS/MT/CGL/COST/FIM-BR43 COLOR WHITE RAL 9016, THIS IS TO INCLUDE CROSS ARM BR43 CROSS ARM ASSEMBLY.
3. LUMAINARE LA 4033 SHALL BE 250W, HPS ELA PART NO. CBH/26/PD/H3/250HPS/MT/CGL/COST/FIM-BR43 COLOR WHITE RAL 9016, THIS IS TO INCLUDE CROSS ARM BR43 CROSS ARM ASSEMBLY.



BANNER MOUNTING DETAIL



LUMINAIRE ARM MOUNTING DETAIL

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TRAFFIC SIGNAL NOTES

1. CONTRACTOR SHALL CONTACT THE CITY OF ALBUQUERQUE FOR APPROVED PRODUCTS LISTING FOR TRAFFIC SIGNAL COMPONENTS.
2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES AND TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE PROJECT MANAGER IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT–OF–WAY.
3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
4. MASTARMS SHALL BE PLACED 90° TO THE CENTERLINE UNLESS OTHERWISE NOTED.
5. SPLICING OF VIDEO DETECTION COAXIAL CABLE WILL NOT BE PERMITTED BETWEEN THE MASTARM BASE AND THE CONTROLLER CABINET. SPLICING OF OPTICAL DETECTOR CABLE WILL NOT BE PERMITTED FROM THE OPTICAL DETECTOR TO THE CONTROLLER CABINET.
6. ALL VIDEO DETECTION COAXIAL AND POWER CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY CAMERA NUMBER AND LOCATION. ALL OPTICAL DETECTOR CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH BY DIRECTION AND LOCATION.
7. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE SIGNAL LAB THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING PERSONNEL MUST BE PRESENT WHEN SIGNALS ARE SHUT OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED. CONTRACTOR SHALL NOTIFY THE COA SIGNAL LAB TWO WEEKS PRIOR TO TURNING ON NEW SIGNALS.
8. THE CONTRACTOR SHALL NOTIFY PNM ELECTRIC THIRTY (30) DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PNM ELECTRICAL TO ESTABLISH ELECTRICAL SERVICE IN THE CITY OF ALBUQUERQUE'S NAME. THE CONTRACTOR SHALL PAY PNM ELECTRIC ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK SHALL BE PAID FOR UNDER ITEM 421.015 SERVICE CONNECTION (SIGNAL).
9. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO CITY OF ALBUQUERQUE PINO YARD WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.
10. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATION CABLES THE REQUIREMENTS FOR SINGLE CONDUCTOR BARE COPPER #6 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRICAL CODE.
11. EXISTING CONDUITS TO BE REMOVED OR ABANDONED SHALL HAVE ALL WIRING REMOVED.
12. EXISTING CONDUITS SHALL BE REPAIRED, ADJUSTED, OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHERE ELECTRICAL PULL BOXES OR TRAFFIC MANHOLES ARE INSTALLED OR REPLACED.
13. THE CONTRACTOR SHALL ARRANGE TO HAVE OFF–DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN NEW SIGNALS ARE PLACED INTO OPERATION OR WHEN EXISTING SIGNALS ARE TEMPORARILY SHUT OFF. THIS IS INCIDENTAL TO TRAFFIC SIGNAL INSTALLATION AND NO ADDITIONAL PAYMENT SHALL BE MADE.
14. THE REMOVED TRAFFIC SIGNAL EQUIPMENT INCLUDING POLES, CONTROLLER, CABINETS, SIGNAL HEADS, PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, FITTINGS, BACK PLATES, LOAD SWITCHES, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE PINO YARD.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

1. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
   A. ALL TRAFFIC ACTUATED CONTROLLERS SUPPLIED FOR THIS PROJECT SHALL BE AS DIRECTED BY THE CITY OF ALBUQERQUE TRAFFIC SERVICES ENGINEER.
   B. ALL TRAFFIC SIGNAL CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE P44 SIZE NEMA TYPE 1, DOUBLE DOOR, WIRED FOR FULL 8 PHASE SYSTEM OPERATION WITH TELEMETRY BOARDS, "IT" TRANSIENT VOLTAGE SURGE SUPPRESSER AND ALL CONNECTING HARNESSES AS APPROVED BY THE CITY TRAFFIC ENGINEER.
   C. THE SYSTEM MASTER SHALL BE XXX AND IS TO BE INSTALLED AT TBD. THE SYSTEM MASTER SHALL INCLUDE A FIELD PROGRAMMING UNIT FOR UPLOADING AND DOWNLOADING FIELD TRAFFIC DATA AND SHALL INCLUDE ALL HARNESSES AND INTERNAL MODEM REQUIRED TO COMMUNICATE WITH THE SYSTEM MASTER AND SLAVE CONTROLLERS. EQUIPMENT MANUFACTURER SHALL CONTACT THE CITY TRAFFIC SECTION FOR PRE–APPROVAL PRIOR TO BIDDING.
2. EMERGENCY VEHICLE DETECTION EQUIPMENT SHALL BE 3M. A MANUFACTURERS REPRESENTATIVE SHALL ASSIST IN SETTING UP, TURNING ON, PROGRAMMING AND FIELD TESTING PRE–EMPTION EQUIPMENT INCLUDING EMITTERS TO INSURE THAT EQUIPMENT IS OPERATIONAL.
3. ALL SIGNAL ASSEMBLIES, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, CABINETS, AND FITTINGS SHALL COMPLY WITH THE CITY OF ALBUQUERQUE TYPE AND COLOR REQUIREMENTS.
4. LOAD SWITCHES AND SIGNAL FLASHER SHALL BE DISCRETE TYPE.
5. "ALL OR NONE" BIDS BY SIGNAL EQUIPMENT MANUFACTURERS WILL NOT BE ALLOWED. MANUFACTURERS (AS A MINIMUM) SHALL PREPARE SEPARATE BIDS FOR TWO GROUPS OF EQUIPMENT AS FOLLOWS:
   A. TRAFFIC SIGNAL CONTROL EQUIPMENT SUCH AS CONTROLLERS, CONTROL CABINETS, MONITORS, TELEMETRY, MODEMS, SYSTEM MASTER, HARNESSES, AND FIELD ASSISTANCE DURING INSTALLATION.
   B. SIGNAL HARDWARE EQUIPMENT SUCH AS SIGNAL HEADS, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, BACK PLATES AND ASSOCIATED FITTINGS.
6. METER PEDESTAL SIGNAL SHALL BE DIAGRAM "B" AND SHALL BE INSTALLED AT LOCATIONS SHOWN ON PLANS.
7. THE EXISTING FIBER OPTIC COMMUNICATION SYSTEM SHALL BE PROTECTED AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY, WITH THE CITY THE NECESSARY EQUIPMENT TO BE INSTALLED IN THE NEW CONTROLLER CABINETS TO COMPLETE CONNECTIVITY TO THE TRAFFIC NETWORK & TRANSIT TRANSPORTATION SYSTEM.
8. ALL SIGNAL POLES AND MASTARMS SHALL BE STEEL TYPE STRUCTURES FOR ALL SIGNALIZED LOCATIONS.

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
		PULL BOX
		SERVICE POLE & SERVICE RISER
M	M	METER PEDESTAL
C	C	CONTROLLER CABINET
		CONDUIT RUN (SIGNALS)
		CONDUIT RUN (LIGHTING)
		CONDUIT RUN (INTERCONNECT)
		LOOP DETECTOR
		TRAFFIC SIGNAL PEDESTAL POLE
X	X	CONDUIT RUN NUMBER (SIGNAL)
SX	SX	CONDUIT RUN NUMBER (POWER SERVICE)
CX	CX	CONDUIT RUN NUMBER (INTERCONNECT)
FX	FX	CONDUIT RUN NUMBER (WARNING BEACON)
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, AND OPTICAL DETECTOR
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACKPLATE, OPTICAL DETECTOR, LUMINAIRE, AND VIDEO CAMERA
		PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
		PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
SC	SC	SPLICE CABINET
		TRAFFIC MANHOLE
		VIDEO CAMERA

* INCIDENTAL ITEMS

1. REMOVAL OF EXISTING PULL BOXES, CONDUIT, POLES AND OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENT.
2. CABLE TESTING AND DIAGRAM.
3. 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.
4. LOCATIONS OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
5. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
6. INFORMING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
7. PULL BOX ADJUSTMENT TO GRADE.
8. OFF–DUTY POLICE OFFICER FOR TRAFFIC CONTROL.
9. REMOVAL AND REPLACEMENT IN KIND OR BETTER LANDSCAPING INCLUDING SPRINKLERS, FOR INSTALLATION OF PULL BOXES, CONDUITS AND SIGNAL FOUNDATIONS.
10. ANCHOR BOLTS FOR FOUNDATIONS.
11. GROUND RODS FOR FOUNDATIONS.
12. CITY OF ALBUQUERQUE STANDARD SERIAL DRAWINGS.
13. ESTABLISH POWER SERVICE IN THE CITY OF ALBUQUERQUES NAME THIRTY (30) DAYS PRIOR TO ANTICIPATED POWER SERVICE CONNECTIONS.

ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY OR 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.

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DESIGN
DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

HDR
2155 LOUISIANA BLVD NE, SUITE 9500
ALBUQUERQUE, NM 87110
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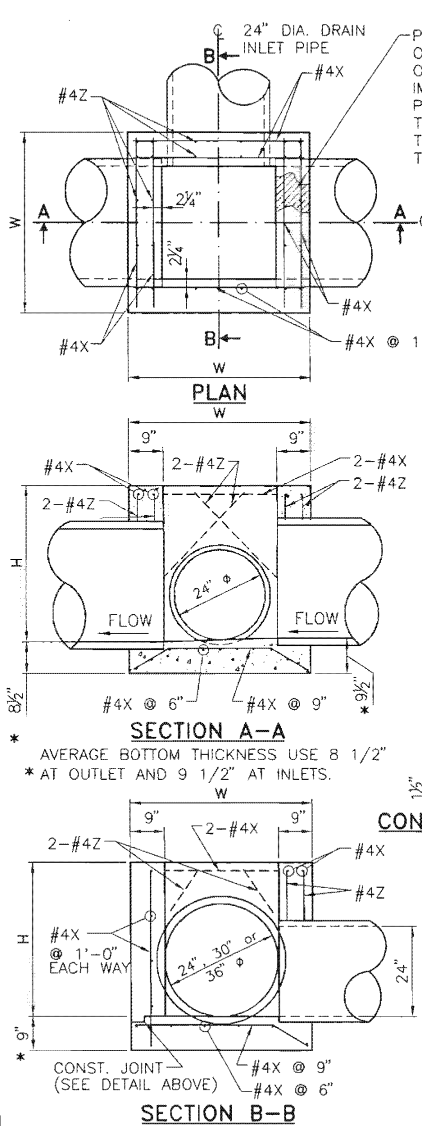
ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

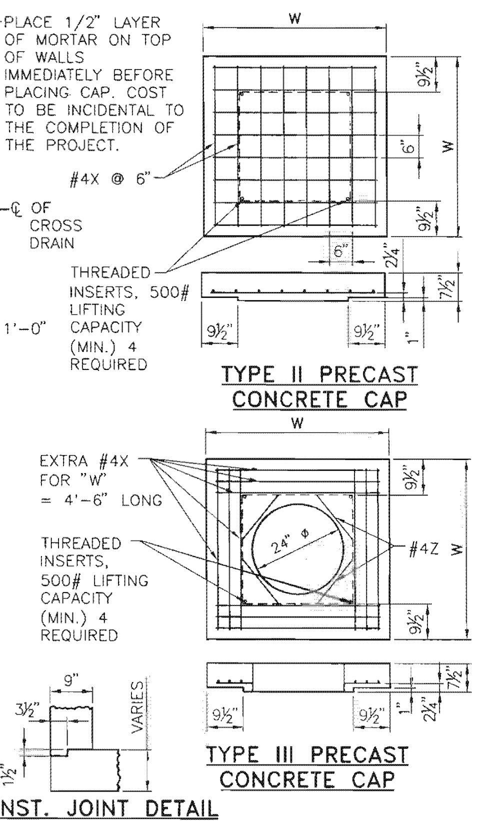
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
PROPOSED SIGNAL GENERAL NOTES

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12–13, K10–19	CS	55	62

Date: 19 Feb 2015 – 3:07pm User: cmgulier
Drawing Name: SG01.dwg





STRUCTURAL STEEL FOR URBAN USE (GRATE AND SEAT ANGLES W/ BOLTS)	STRUCTURAL STEEL FOR RURAL USE (GRATE AND SEAT ANGLES W/ BOLTS)
384 LBS.	359 LBS.

FOR CONTRACTOR'S INFORMATION ONLY.

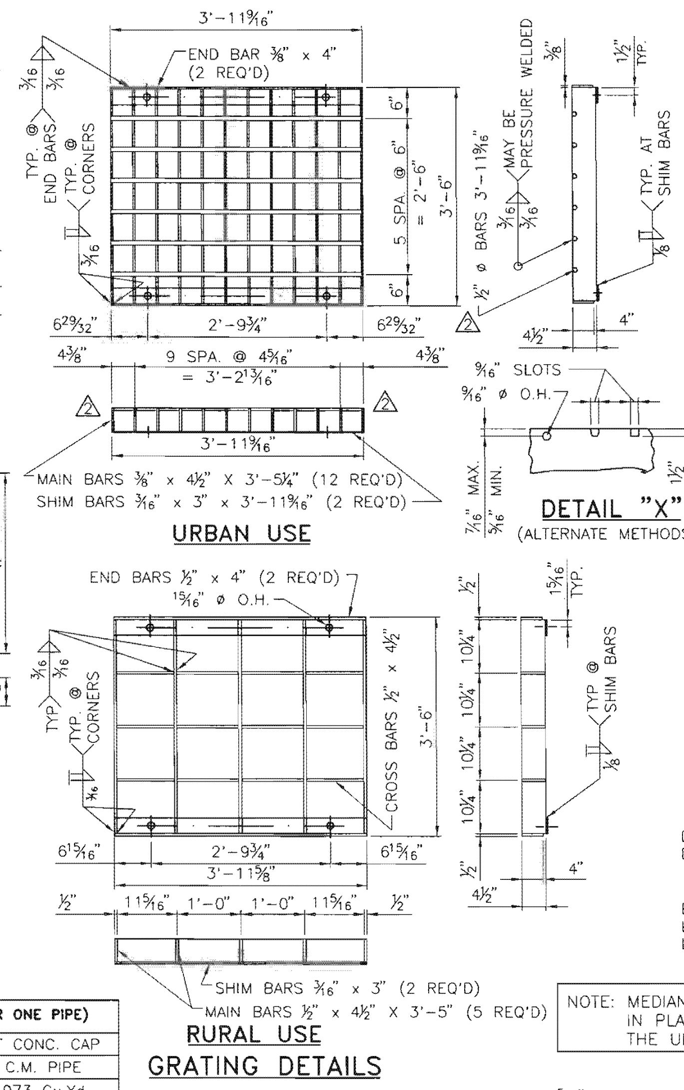
CLASS "A" CONCRETE DEDUCTIONS (FOR ONE PIPE)				
PIPE DIAMETER	9" WALL		7 1/2" PRECAST CONC. CAP	
	R.C. PIPE	C.M. PIPE	R.C. PIPE	C.M. PIPE
24"	.136 Cu.Yd.	.087 Cu.Yd.	.113 Cu.Yd.	.073 Cu.Yd.
30"	.207 Cu.Yd.	.136 Cu.Yd.	--------	----------
36"	.293 Cu.Yd.	.196 Cu.Yd.	--------	----------

FOR PIPES SKEWED INTO WALL, MULTIPLY DEDUCTION BY THE SECANT OF THE SKEW ANGLE.

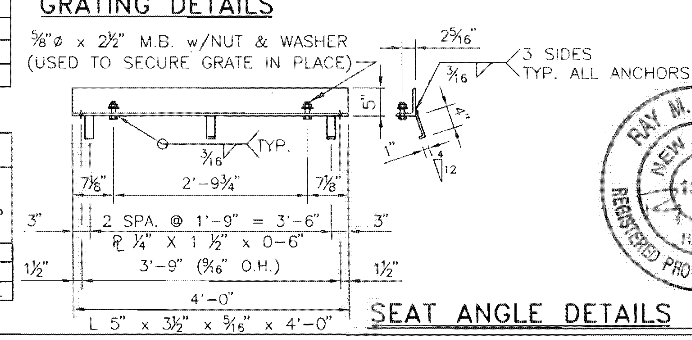
DATA FOR JUNCTION BOX (FOR CONTRACTOR'S INFORMATION ONLY, NOT A BID ITEM)

REINFORCING STEEL QUANTITY AND LENGTH							ESTIMATED QUANTITIES			TYPE II PRECAST CONC.CAP EST.WT.	TYPE III PRECAST CONC.CAP EST.WT.
CROSS DRAIN PIPE DIAMETER	W	H	#4X NO.	#4X LENGTH	#4Z NO.	#4Z LENGTH	CLASS "A" CONCRETE R.C. PIPE	CLASS "A" CONCRETE C.M. PIPE	REINF. STEEL		
24"	4'-0"	2'-11"	43	3'-9"	12	2'-3"	1.43 Cu.Yd.	1.58 Cu.Yd.	126 LBS.	1373 LBS.	914 LBS.
30"	4'-0"	3'-5"	43	3'-9"	12	2'-3"	1.47 Cu.Yd.	1.65 Cu.Yd.	126 LBS.	1373 LBS.	914 LBS.
36"	4'-6"	3'-11"	46	4'-3"	12	2'-6"	1.90 Cu.Yd.	2.15 Cu.Yd.	151 LBS.	1752 LBS.	1294 LBS.

NOTE: CONCRETE AND REINFORCING STEEL QUANTITIES INCLUDE TYPE II CAP AND DEDUCTIONS FOR CONCRETE INLET PIPE AND CROSSDRAIN PIPE.



NOTE: MEDIAN DROP INLETS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE UNIT PRICE BID PER EACH.



RAY M. TRUJILLO NEW MEXICO 13514 REGISTERED PROFESSIONAL ENGINEER 11/10/09

GENERAL NOTES

1. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. ALL CONCRETE SHALL BE CLASS "A". CHAMFER EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED ON THE DETAILS.
3. REINFORCING BARS SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M 31, GRADE 60. DIMENSIONS REFER TO THE CENTERLINE OF BAR UNLESS OTHERWISE NOTED ON THE DETAILS.
4. STRUCTURAL STEEL SHALL CONFORM TO A.A.S.H.T.O. SPECIFICATION M 183 AND SHALL BE GIVEN A PROTECTIVE COATING IN CONFORMANCE WITH THE SPECIFICATIONS.
5. DROP INLETS MAY BE USED WITH EITHER R.C.P. OR C.M.P. R.C.P. IS SHOWN IN THE DETAILS..
6. QUANTITIES SHOWN ARE FOR INFORMATION ONLY.
7. INSTALLATIONS SHOWN ARE FOR DROP INLETS LOCATED WHERE THE MEDIAN DITCH LINE IS ON A CONTINUOUS SLOPE. IF THE DROP INLET IS LOCATED AT A LOW POINT IN THE MEDIAN DITCH LINE, NO DIKE WILL BE REQUIRED AND DETAILS FOR SLOPES SHOULD BE SHOWN ON THE UPGRADE SIDE. THE TOP OF THE INLET GRATE FOR ALL MEDIAN DROP INLETS SHALL BE SET AT AN ELEVATION THAT WILL PERMIT THE USE OF 6:1 OR FLATTER ROADWAY SLOPES OUTSIDE THE INLET GRATE. THE MEDIAN DITCH SHALL BE GRADED TO DRAIN TO THE DROP INLET.
8. THE URBAN GRATING DETAIL SHALL BE USED IN ALL CASES UNLESS NOTED ON THE PLANS AS ALTERNATE.

DRAWINGS REQUIRED

1. SERIAL 623-01-1/1: JUNCTION BOX, GRATES, NOTES, AND QUANTITIES.
2. SERIAL 623-02-1/1: DROP INLETS TYPE I AND II.
3. SERIAL 623-03-1/1: DROP INLET TYPE III.
4. ROADWAY DESIGN DRAWINGS: FOR TYPE, LOCATION, HEIGHT, AND NUMBER REQUIRED.

DESIGN DATA

DESIGN ACCORDING TO AASHTO SPECIFICATIONS CURRENT EDITION.
DESIGN STRESSES:
REINFORCED CONCRETE; f'c= 3,000 psi, fy= 60,000 psi, n= 10
STRUCTURAL STEEL; fs= 20,000 psi, fy= 36,000 psi
EARTH PRESSURE: 36 lb./cu.ft. EQUIV. FLUID PRESSURE, 2'-0" SURCHARGE.
LIVE LOAD ON URBAN GRATING: ONE 16,000 lbs. WHEEL PLUS 30% IMPACT.
LIVE LOAD ON RURAL GRATING: ONE 16,000 lbs. WHEEL PLUS 30% IMPACT, 35% OVERSTRESS.

NO.	DATE	REV.BY	DESCRIPTION
2	2/10/09	YML	MADE 1/2" DIA. BAR FROM 3'-11 3/16" TO 3'-11 9/16" & REMOVED 3/16" DIM.
1	2/11/09	YML	MADE GENERAL REVISIONS

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO
DEPARTMENT OF TRANSPORTATION
STANDARD DRAWING

MEDIAN DROP INLET
JUNCTION BOX, GRATES,
NOTES, AND QUANTITIES

DESIGNED BY ____ DRAWN BY SKL CHECKED BY YML/TM

623-01-1/1 1 of 1

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
E: 1530495.993 USFT
ELEV: 5174.054

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

NO.	DATE	REMARKS	BY

REVISIONS
DESIGN
DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

HDR
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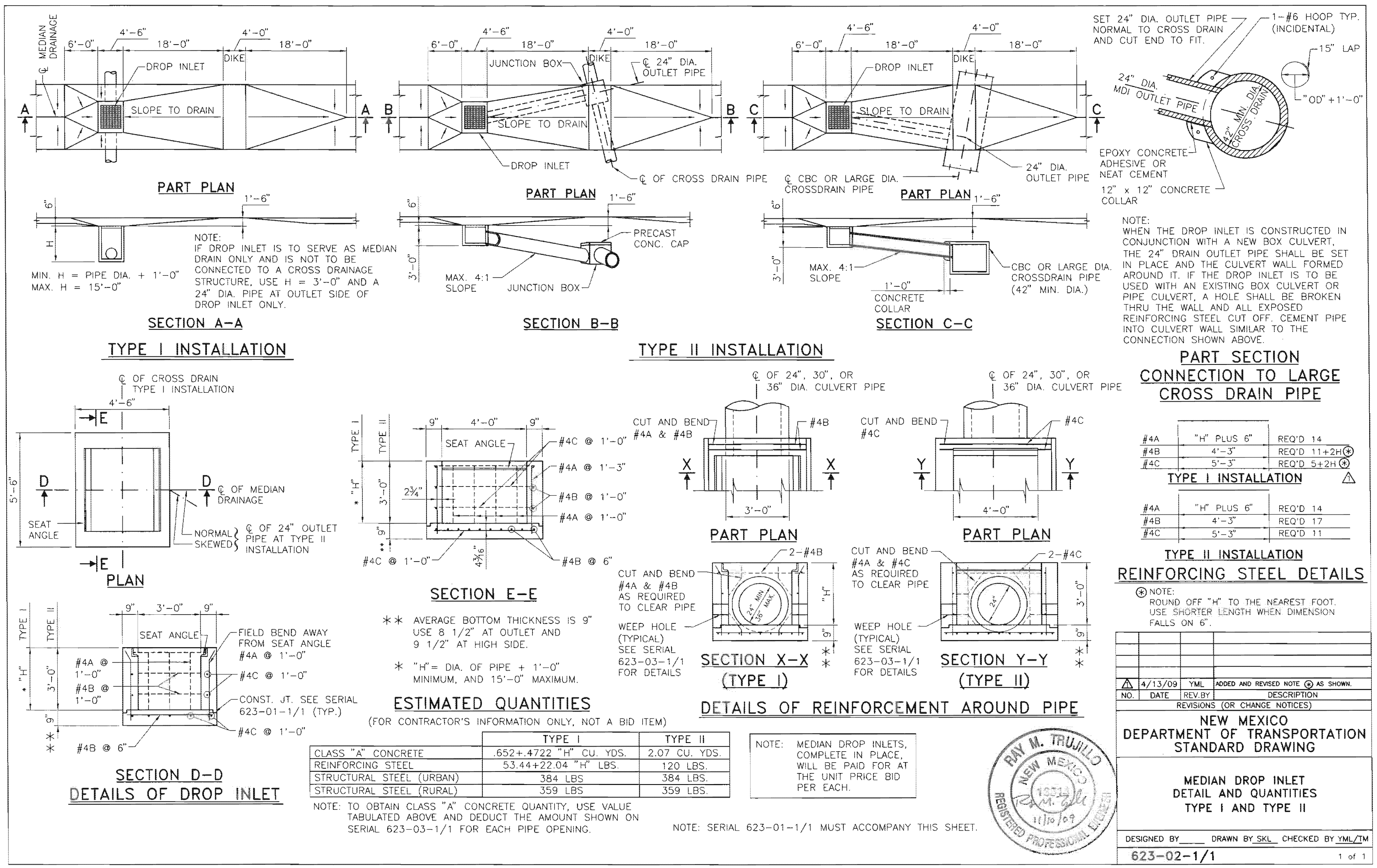
ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
MISCELLANEOUS DRAINAGE DETAILS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	56	62



REINFORCING STEEL DETAILS

TYPE I INSTALLATION

#4A	"H" PLUS 6"	REQ'D 14
#4B	4'-3"	REQ'D 11+2H ⊛
#4C	5'-3"	REQ'D 5+2H ⊛

TYPE II INSTALLATION

#4A	"H" PLUS 6"	REQ'D 14
#4B	4'-3"	REQ'D 17
#4C	5'-3"	REQ'D 11

⊛ NOTE:
ROUND OFF "H" TO THE NEAREST FOOT. USE SHORTER LENGTH WHEN DIMENSION FALLS ON 6".

ESTIMATED QUANTITIES

(FOR CONTRACTOR'S INFORMATION ONLY, NOT A BID ITEM)

	TYPE I	TYPE II
CLASS "A" CONCRETE	.652+.4722 "H" CU. YDS.	2.07 CU. YDS.
REINFORCING STEEL	53.44+22.04 "H" LBS.	120 LBS.
STRUCTURAL STEEL (URBAN)	384 LBS	384 LBS.
STRUCTURAL STEEL (RURAL)	359 LBS	359 LBS.

NOTE: TO OBTAIN CLASS "A" CONCRETE QUANTITY, USE VALUE TABULATED ABOVE AND DEDUCT THE QUANTITY SHOWN ON SERIAL 623-03-1/1 FOR EACH PIPE OPENING.

NOTE: MEDIAN DROP INLETS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE UNIT PRICE BID PER EACH.

NOTE: SERIAL 623-01-1/1 MUST ACCOMPANY THIS SHEET.

NO.	DATE	REV.BY	DESCRIPTION
△	4/13/09	YML	ADDED AND REVISED NOTE ⊛ AS SHOWN.

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

MEDIAN DROP INLET DETAIL AND QUANTITIES TYPE I AND TYPE II

DESIGNED BY____ DRAWN BY SKL CHECKED BY YML/TM

623-02-1/1 1 of 1

AS BUILT INFORMATION
CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:
MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
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SURVEY INFORMATION
FIELD NOTES
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REVISIONS
NO. | DATE | REMARKS | BY

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DESIGNED BY: XX DATE: 2/19/2015
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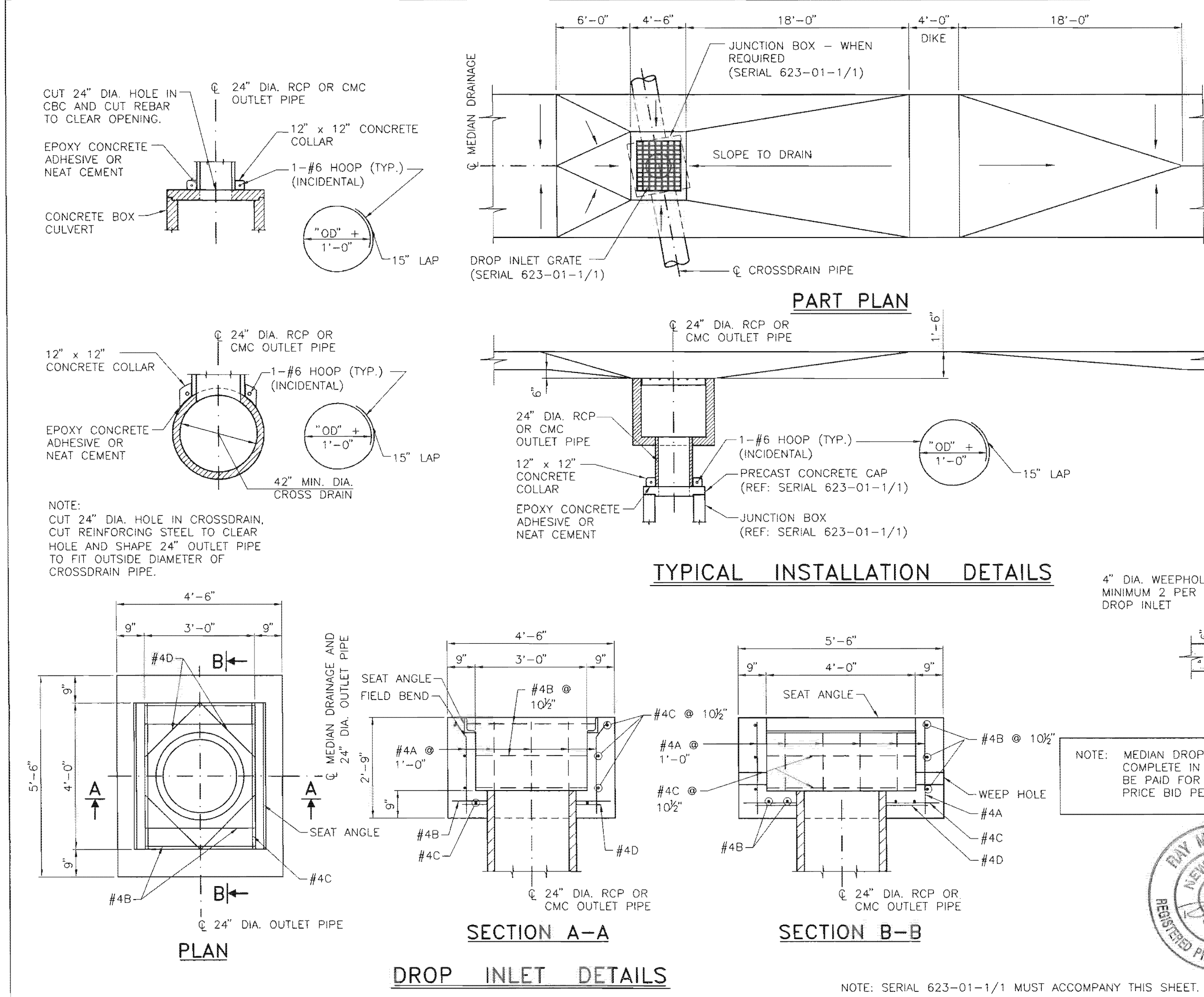
TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
MISCELLANEOUS DRAINAGE DETAILS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	57	62

Date: 19 Feb 2015 - 3:08pm User: dmguiler
Drawing Name: DR01.dwg



REINFORCING STEEL REQUIRED FOR DROP INLET

#4A	2'-6"	REQ'D. 14
#4B	4'-3"	REQ'D. 10
#4C	5'-3"	REQ'D. 8
#4D	3'-6"	REQ'D. 4

ESTIMATED QUANTITIES FOR DROP INLET

CLASS "A" CONCRETE:	
USING R.C. PIPE	1.46 CU.YDS.
USING C.M. PIPE	1.51 CU.YDS.
REINFORCING STEEL:	89 LBS.
STRUCTURAL STEEL (URBAN)	384 LBS.
STRUCTURAL STEEL (RURAL)	359 LBS.

(FOR CONTRACTOR'S INFORMATION ONLY, NOT A BID ITEM).

NOTE: MEDIAN DROP INLETS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE UNIT PRICE BID PER EACH.

NOTE: SERIAL 623-01-1/1 MUST ACCOMPANY THIS SHEET.

RAY M. TRUJILLO NEW MEXICO 13313 REGISTERED PROFESSIONAL ENGINEER 11/10/09

NO.	DATE	REV.BY	DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

MEDIAN DROP INLET DETAIL AND QUANTITIES TYPE III

DESIGNED BY____ DRAWN BY SKL CHECKED BY YML/TM

623-03-1/1 1 of 1

AS BUILT INFORMATION
CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
NM SPC CENTRAL ZONE GRID:
N: 1485016.971 USFT
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ELEV: 5174.054

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

30% REVIEW
PRELIMINARY
NOT FOR CONSTRUCTION
02/2015

REVISIONS
NO. DATE REMARKS BY

DESIGN
DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

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ABQ RIDE

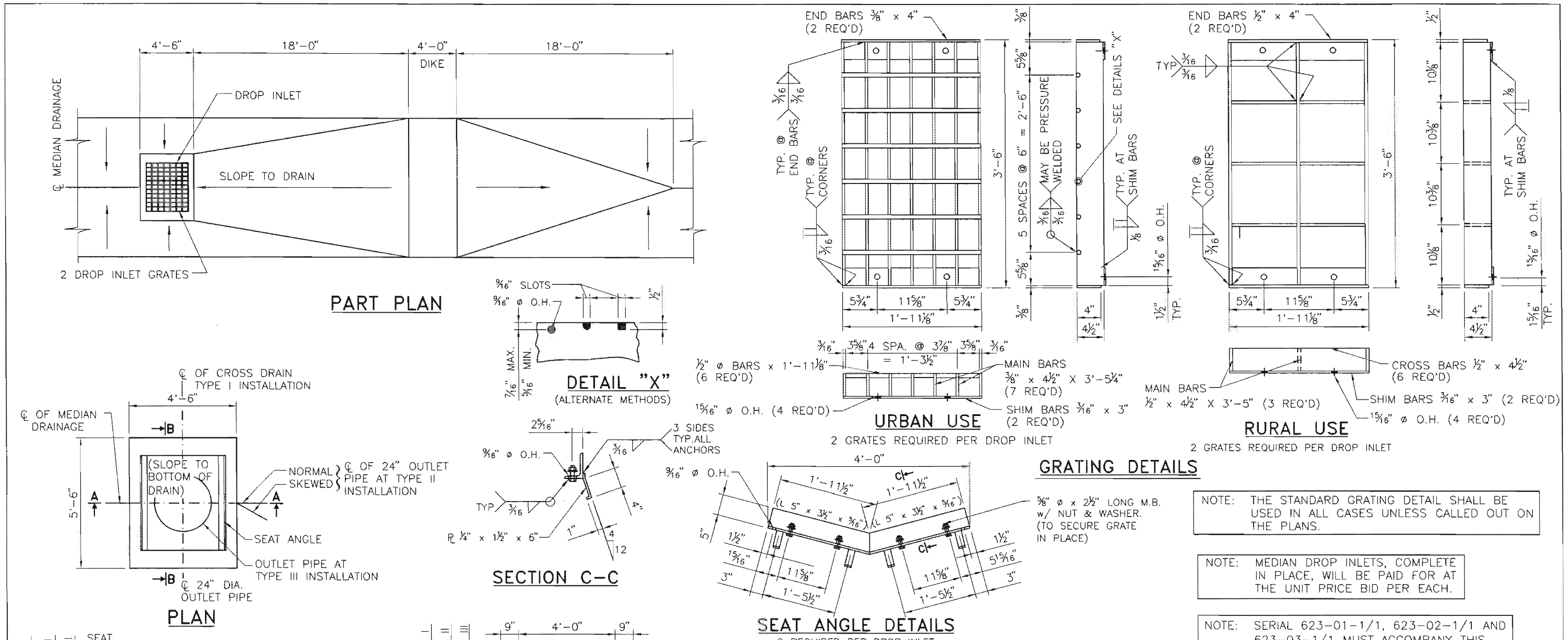
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
MISCELLANEOUS DRAINAGE DETAILS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	58	62

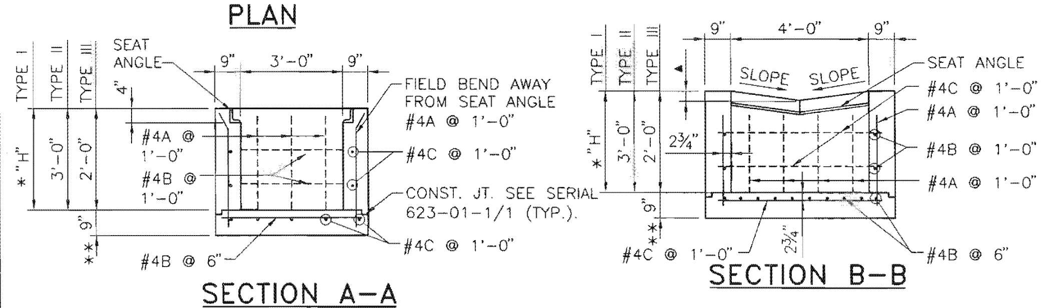
Date: 19 Feb 2015 - 3:08pm User: amguller
Drawing Name: DR01.dwg



NOTE: THE STANDARD GRATING DETAIL SHALL BE USED IN ALL CASES UNLESS CALLED OUT ON THE PLANS.

NOTE: MEDIAN DROP INLETS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE UNIT PRICE BID PER EACH.

NOTE: SERIAL 623-01-1/1, 623-02-1/1 AND 623-03-1/1 MUST ACCOMPANY THIS SHEET.



ESTIMATED QUANTITIES

(FOR CONTRACTOR'S INFORMATION ONLY, NOT A BID ITEM)

REQUIRED SLOPE	▲	ADD'L CONCRETE	ADD'L REBAR
3:1 SLOPE	11"	0.32 CU.YDS.	10 LBS.
4:1 SLOPE	8 1/2 "	0.24 CU.YDS.	10 LBS.
5:1 SLOPE	6 5/8 "	0.19 CU.YDS.	10 LBS.
6:1 SLOPE	5 1/2 "	0.16 CU.YDS.	10 LBS.
7:1 SLOPE	4 3/4 "	0.14 CU.YDS.	5 LBS.
8:1 SLOPE	4 1/8 "	0.12 CU.YDS.	5 LBS.
STRUCTURAL STEEL		380 LBS. (URBAN)	80 LBS. (RURAL)

** AVERAGE BOTTOM THICKNESS USE 8 1/2" AT OUTLET AND 9 1/2" AT HIGH SIDE.

* "H"= DIA. OF PIPE + 1'-0" MINIMUM, AND 15'-0" MAXIMUM.

▲ DIMENSIONS DEPEND ON SLOPE. SEE TABLE FOR DATA.

NOTE: SEE ROADWAY PLANS FOR SLOPE INFORMATION. WHEN SLOPES ARE NOT SYMMETRICAL, THE SLOPE OF THE DROP INLET AND THE SEAT ANGLES MAY BE CONSTRUCTED TO MATCH THE DIFFERENT SLOPE. ONE HALF OF THE CONCRETE QUANTITY SHOWN FOR EACH OF THE APPROPRIATE SLOPES SHALL BE USED TO ADJUST CONCRETE QUANTITIES.

NOTES:
1. LENGTH OF THE VERTICAL REINFORCING BARS SHALL BE INCREASED BY THE DIMENSION ▲ SHOWN AND FIELD CUT OR BENT AS REQUIRED TO FIT SLOPE.
2. PROVIDE 2 ADDITIONAL "C" BARS WHEN DIMENSION ▲ EXCEEDS 5 1/2".
3. STRUCTURAL STEEL QUANTITY SHOWN SHOULD BE USED IN LIEU OF THAT SHOWN ON SERIAL 623-01-1/1.

RAY M. TRUJILLO NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REV.BY	DESCRIPTION

REVISIONS (OR CHANGE NOTICES)

NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING

MEDIAN DROP INLET VALLEY TYPE MODIFICATION DETAILS TYPE I, TYPE II, TYPE III

DESIGNED BY_____ DRAWN BY SKL CHECKED BY YML/TM

623-04-1/1 1 of 1

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION
RECORDED BY DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.
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FIELD NOTES
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ABQRIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
MISCELLANEOUS DRAINAGE DETAILS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	59	62

Date: 19 Feb 2015 - 3:08pm User: amguiler
Drawing Name: DR01.dwg

UTILITY CONTACTS

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MOYER, MIKE	OFFICE PHONE: (505) 241-3697 OFFICE FAX: (505) 241-3415 CELL PHONE: (505) 249-5712 MIKE.MOYER@PNM.COM	PNM ELECTRIC 4625 EDITH BLVD. NE ALBUQUERQUE, NM 87107
COSTANZA, RYAN	OFFICE PHONE: (505) 798-3346 OFFICE FAX: (505) 344-4731 CELL PHONE: (505) 452-7828 RYAN.COSTANZA@NMGCO.COM	NEW MEXICO GAS COMPANY 4625 EDITH BLVD. NE ALBUQUERQUE, NM 87107
KELLY, SEAN	OFFICE PHONE: (505) 842-2838 OFFICE FAX: (505) 842-2890 CELL PHONE: (505) 200-1994 SK1561@ATT.COM	AT&T 111 3RD STREET NW ALBUQUERQUE, NM 87102
WAGENER, KURT	OFFICE PHONE: (505) 884-2215 OFFICE FAX: (505) 884-0214 CELL PHONE: (505) 362-1272 KWAGENER@AMAFCA.ORG	AMAFCA 2600 PROSPECT ALBUQUERQUE, NM 87107
GABALDON, HERMAN	OFFICE PHONE: (505) 884-2215 OFFICE FAX: (505) 884-0214 CELL PHONE: (505) 266-8209 HGABALDON@AMAFCA.ORG	AMAFCA 2600 PROSPECT ALBUQUERQUE, NM 87107
MORTUS, MIKE	OFFICE PHONE: (505) 761-6252 OFFICE FAX: (505) 761-0599 CELL: (505) 269-4006 MIKE_MORTUS@CABLE.COMCAST.COM	COMCAST 4611 MONTBEL PLACE NE ALBUQUERQUE, NM 87107
ADAMS, MARK	OFFICE PHONE: (505) 938-7326 CELL: (505) 238-0073 MARK.ADAMS@LEVEL3.COM	TW TELECOM OF NEW MEXICO LLC 3830 SINGER BLVD NE SUITE 2000 ALBUQUERQUE, NM 87109
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MELENDREZ, JOHN	OFFICE PHONE: (505) 245-6124 CELL PHONE: (575) 312-4353 JOHN.MELENDREZ@CENTURYLINK.COM	CENTURY LINK 400 TIJERAS AVE NW ALBUQUERQUE, NM 87102

EXCAVATION, BACKFILL AND EARTHWORK:

1. A GEOTECHNICAL REPORT WAS CONDUCTED FOR THIS PROJECT AND IS INCLUDED UNDER SEPARATE COVER NEITHER THE ENGINEER NOR THE OWNER ASSUMES RESPONSIBILITY FOR THE COMPLETENESS OR INTERPRETATION OF SUCH SUPPLEMENTARY INFORMATION. ALL EARTHWORK SHALL CONFORM WITH RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT. CONTRACTOR IS RESPONSIBLE FOR EXAMINATION OF THE SITE AND DETERMINATION OF THE CHARACTER OF MATERIALS TO BE ENCOUNTERED. NO ADDITIONAL ALLOWANCES WILL BE MADE FOR ROCK REMOVAL, SITE CLEARING AND GRADING, FILLING, COMPACTION, DISPOSAL, OR REMOVAL OF ANY UNCLASSIFIED MATERIALS.
2. ALL EXCAVATION STANDARD SPECIFICATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
3. FOR PIPELINE TRENCH EXCAVATION, CONTRACTOR SHALL COMPLY WITH THE OSHA REGULATIONS STANDARD NO. 1926. TRENCH SUPPORT AND TEMPORARY SHORING SHALL BE REQUIRED DURING CONSTRUCTION TO SATISFY CONSTRAINTS IDENTIFIED IN THE DRAWINGS FOR LIMITS OF DISTURBANCE, PROTECTION OF EXISTING UTILITIES, TRAFFIC CONTROL, ETC. AND SHALL BE DESIGNED BY CONTRACTOR IN ACCORDANCE WITH OSHA STANDARDS. DESIGN AND CONSTRUCTION OF ALL FORMS, SHORING, AND TEMPORARY BRACING SHALL COMPLY WITH 29 CFR 1926 AND THESE COSTS SHALL BE CONSIDERED INCIDENTAL TO THE TRENCHING AND BACKFILL COSTS.
4. ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED SHALL BE REMOVED FROM THE PROJECT AREA WITHIN FOUR (4) DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE ENGINEER.
5. MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID AND NON-RIGID PIPE SHALL BE AS SHOWN IN THE TRENCH DETAILS.
6. NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFIED BORROW OR SURFACING MATERIAL FROM ANY ACCEPTABLE SOURCE.
7. ALL TRENCH EXCAVATION BACKFILL WITHIN THE ROADWAY PRISM SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR PER ASTM D-698 OR D-1557 AS APPLICABLE.
8. ANY EARTHWORK HAUL ON THIS PROJECT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE FOR EXCAVATE AND DISPOSE OF UNCLASSIFIED MATERIAL AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
9. CONTRACTOR SHALL UTILIZE FLOWABLE FILL WHEREVER BACKFILL MATERIAL CANNOT BE PLACED AND COMPACTED BETWEEN THE NEW PIPE LINE AND EXISTING UTILITIES OR IF THE VERTICAL SEPARATION BETWEEN THE NEW PIPE LINE AND EXISTING UTILITY IS LESS THAN 12-INCHES. THIS COST IS INCIDENTAL TO BACKFILL COSTS.
10. CONTRACTOR SHALL USE CAUTION NEAR ALL EXISTING STRUCTURES INCLUDING MASONRY WALLS, BUILDINGS, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES CAUSED BY CONTRACTOR'S OPERATIONS.
11. FOR TRENCH DEPTHS EXCEEDING 20-FEET, CONTRACTOR SHALL SUBMIT VERIFICATION TO ENGINEER THAT TRENCH SUPPORT IS DESIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
12. CONTRACTOR SHALL RETURN ALL GRADES TO EXISTING ELEVATIONS AND CONDITIONS AFTER CONSTRUCTION OF THE WATERLINES, UNLESS OTHERWISE INDICATED.
13. EXCESS SOIL MATERIAL, INCLUDING UNSUITABLE MATERIAL, REMAINING AS A RESULT OF THE WATERLINE OR OTHER INFRASTRUCTURE INSTALLATION SHALL BE REMOVED AND DISPOSED BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE BID UNIT PRICES. THE OWNER WILL NOT BE RESPONSIBLE FOR ANY ADDITIONAL PAYMENT.
14. CONTRACTOR SHALL SUPPORT ALL POWERPOLES AND FENCES ALONG RIGHT-OF-WAY IF NECESSARY DURING CONSTRUCTION OF THE WATERLINE. THIS WORK IS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR.

GENERAL UTILITIES:

1. ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES SHOWN ON THE PLANS ARE SHOWN IN AN APPROXIMATE LOCATION ONLY BASED ON THE INFORMATION PROVIDED TO THE ENGINEER BY OTHERS THAT MAY BE INACCURATE OR INCOMPLETE. ADDITIONALLY, UNDERGROUND LINES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK. ANY DAMAGE TO ANY OTHER UTILITIES OR COLLATERAL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES, ABOVE OR BELOW GROUND. UTILITIES THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PREVENT DISRUPTION TO SERVICE.
3. ALL UTILITY LINES NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, SHALL 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 SHALL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES AS NECESSARY AT NO ADDITIONAL COST TO OWNER.
4. CONTRACTOR SHALL PROVIDE A UTILITY SUPPORT DESIGN FOR ALL LARGE AND/OR CRITICAL SERVICES (E.G. COMMUNICATIONS AND ELECTRIC DUCT BANKS, EXPOSED GRAVITY LINE JOINTS, PRESSURIZED WATER LINES, SEWER FORCE MAINS, ETC.). SUPPORT FOR THESE CRITICAL SERVICES SHALL BE DESIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO OWNER'S REPRESENTATIVE FOR APPROVAL. THE DESIGN AND INSTALLATION OF BOTH CRITICAL AND NONCRITICAL SUPPORTS SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE. ANY DAMAGE TO EXISTING UTILITIES SHALL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL 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.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES AT NO ADDITIONAL COST TO THE OWNER. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.
6. ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES THAT ARE EXPOSED AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT THEIR EXPENSE.
7. CONTRACTOR SHALL COORDINATE ANY REQUIRED UTILITY INTERRUPTIONS WITH THE AFFECTED UTILITY COMPANY A MINIMUM OF THREE (3) DAYS WORKING IN ADVANCE OF EXCAVATION, DISCONNECTION, CONNECTION, OR REMOVAL OF ANY PIPE, CONDUIT, OR POWER SUPPLY IN ORDER FOR THE AFFECTED UTILITY TO HAVE A REPRESENTATIVE AT THE PROJECT SITE.
8. CONTRACTOR SHALL COORDINATE WITH PERTINENT UTILITY COMPANIES OF ALL EXISTING UTILITY LINES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR SHALL RESCHEDULE HIS ACTIVITIES AS NECESSARY TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
9. ANY ADJUSTMENT OR RELOCATION OF EXISTING UTILITIES (UNDERGROUND, SURFACE, OR OVERHEAD) SHALL BE COORDINATED WITH THE OWNER OF THE AFFECTED UTILITY AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.
10. EXISTING VALVES SHALL ONLY BE OPERATED BY THE APPROPRIATE UTILITY COMPANY. CONTRACTOR SHALL NOTIFY THE UTILITY A MINIMUM OF SEVEN (7) WORKING DAYS BEFORE ANY VALVE, NEW OR EXISTING, NEEDS TO BE OPERATED.
11. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS' EXPENSE.
12. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AHEAD PRIOR TO CONSTRUCTION TO ALLOW FOR ANY NECESSARY ADJUSTMENTS OR REALIGNMENTS, AND TO VERIFY PIPE TYPES FOR ORDERING PROPER TRANSITION AND/OR TIE-IN FITTINGS WHICH MAY BE REQUIRED.
13. CONTRACTOR TO RELOCATE OR BYPASS EXISTING CONFLICTING LINES. ALL ABANDONED LINES SHALL BE PLUGGED WITH MASONRY PLUG WITH LENGTH = 4 X DIA. OF PIPE AT CUT ENDS.

SEWER

1. CONTRACTOR SHALL NOTIFY ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY AT LEAST SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC SEWER UTILITIES.
2. ALL DISTURBED SANITARY SEWER MANHOLES SHALL BE ADJUSTED TO GRADE.
3. ALL NEW FORCE MAIN PIPING SHALL BE MECHANICALLY RESTRAINED PER ABCWUA STANDARD SPECIFICATIONS.
4. CONTRACTOR SHALL FIELD VERIFY EXISTING PIPING CONFIGURATION AND REQUIRED COMPONENTS PRIOR TO CONSTRUCTION. VERIFICATION SHALL INCLUDE, BUT IS NOT LIMITED TO, HORIZONTAL AND VERTICAL LOCATION OF EXISTING SEWER LINE, SIZE, MATERIAL, AND TYPE OF CONNECTION. CONTRACTOR SHALL PROVIDE REQUIRED CONNECTION COMPONENTS AS PART OF THE CONNECTION. ALL COSTS ASSOCIATED WITH FIELD VERIFICATION OF REQUIRED FITTINGS SHALL BE CONSIDERED INCIDENTAL.

CONSTRUCTION LIMITS:

1. CONTRACTOR SHALL WORK WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. EQUIPMENT TRAFFIC OUTSIDE THESE LIMITS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION OF THE ENGINEER OR APPROPRIATE PROPERTY OWNER.
2. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WITHIN ADJACENT RIGHT-OF-WAY OR WITHIN PROPERTY NOT OWNED BY THE OWNER OF THE PROJECT SITE, THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND PERMISSIONS IN WRITING.
3. OVERNIGHT PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES SO AS NOT TO INTERFERE WITH NORMAL RESIDENTIAL AND COMMERCIAL ACTIVITIES.

WATER SYSTEM:

1. THE CONTRACTOR SHALL NOTIFY THE UTILITY DEPARTMENT AT LEAST SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. EXISTING VALVES TO BE OPERATED BY GLORIETA PERSONNEL ONLY. CONTRACTOR SHALL CONTACT ABCWUA SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES OPENED OR CLOSED. CONTRACTOR SHALL MAINTAIN WATER SERVICES TO ALL EXISTING USERS DURING CONSTRUCTION ACTIVITIES AND COORDINATE SEQUENCING OF ALL PLANNED VALVE CLOSURES. CONTRACTOR SHALL SUBMIT A WATER SHUT OFF PLAN FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES IN APPLICABLE AREAS.
2. CONTRACTOR SHALL ADJUST ALL WATER VALVE BOXES, VAULT LIDS AND OTHER APPURTENANCES TO FINISH GRADE. WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
3. IF A WATER SERVICE LINE IS DAMAGED, CONTRACTOR SHALL REPLACE FROM MAIN TO METER BOX WITHOUT SPLICING AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL INSTALL WATER MAINS CROSSING SEWER AND WATER LINES TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN. THIS SEPARATION SHALL BE MAINTAINED WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER LINES. THE CROSSING SHALL BE ARRANGED SO THAT THE WATER MAIN JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER LINES (~10 FEET).
5. ALL FITTINGS, BENDS, TEES, RESTRAINTS, ETC. TO COMPLETE THE INSTALLATION OF THE WATERLINE SHALL BE CONSIDERED INCIDENTAL TO THE WATERLINE UNIT PRICES. THE CONTRACTOR IS NOT ENTITLED TO ANY ADDITIONAL COMPENSATION.
6. ALL WATER MAIN PIPING SHALL BE MECHANICALLY RESTRAINED.
7. ALL DISTURBED SANITARY SEWER MANHOLES SHALL BE ADJUSTED TO GRADE.
8. CONTRACTOR SHALL FIELD VERIFY EXISTING PIPING CONFIGURATION AND REQUIRED CONNECTION COMPONENTS PRIOR TO CONSTRUCTION. VERIFICATION SHALL INCLUDE BUT IS NOT LIMITED TO THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING WATER LINE, SIZE, MATERIAL AND TYPE OF CONNECTION. CONTRACTOR SHALL PROVIDE REQUIRED CONNECTION COMPONENTS AS PART OF THE CONNECTION. ALL COSTS ASSOCIATED WITH FIELD VERIFICATION OF REQUIRED FITTINGS AND INSTALLATION SHALL BE CONSIDERED INCIDENTAL.
9. DEFLECT PIPE AS NECESSARY PER MANUFACTURER'S RECOMMENDATIONS.
10. 4' MIN. COVER TO TOP OF PIPE UNLESS OTHERWISE NOTED.

AS BUILT INFORMATION

CONTRACTOR

WORK STAKED BY | DATE:

INSPECTOR'S ACCEPTANCE BY | DATE:

FIELD VERIFICATION BY | DATE:

DRAWINGS CORRECTED BY | DATE:

MICRO-FILM INFORMATION

RECORDED BY | DATE:

NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A

A CITY OF ALBUQUERQUE 2 INCH BRASS DISC SET FLUSH IN THE SIDEWALK AND STAMPED "5-K16A". THE MONUMENT IS LOCATED ON THE NORTH SIDE OF CENTRAL AVE BETWEEN STANFORD DR AND COLUMBIA DR SE.

NM SPC CENTRAL ZONE GRID:

N: 1485016.971 USFT

E: 1530495.993 USFT

ELEV: 5174.054

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

30% REVIEW

PRELIMINARY

NOT FOR CONSTRUCTION

02/2015

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: XX | DATE: 2/19/2015

DRAWN BY: XX | DATE: 2/19/2015

CHECKED BY: XX | DATE: 2/19/2015

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ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
EXISTING UTILITIES GENERAL NOTES
AND UTILITY OWNERS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	60	62

Date: 19 Feb 2015 - 3:08pm User: amgullier
Drawing Name: XUTD1.dwg

CIVIL MAPPING SYMBOLOGY

Symbol	Description
	EMBANKMENT SLOPE (CUT)
	EMBANKMENT SLOPE (FILL)
H:V	EMBANKMENT SLOPE LEFT ARROW LEFT
H:V	EMBANKMENT SLOPE RIGHT ARROW RIGHT
123	SPOT ELEVATION/POINT #
X	IDENTIFICATION AND APPROXIMATE LOCATION OF SOIL TEST HOLE
X	TEST PIT
X	SOIL BORING
	FLOW ARROW
	EXISTING UTILITY POLE
	DOWNGUY
	CLEANOUT
	CULVERT END SYMBOL (WITH CULVERT SHOWN BETWEEN SYMBOLS)
	FIRE HYDRANT
GT	GREASE TRAP
GC	GRIT CHAMBER
	HEADWALL
I	INDUSTRIAL WASTE WATER METER
I	INDUSTRIAL WASTE WATER MANHOLE
G	NATURAL GAS METER
G	NATURAL GAS RECEIVER
G	NATURAL GAS TRAP
G	NATURAL GAS LINE VAULT
MW	MONITORING WELL
PS X	PUMP STATION
S	SANITARY MANHOLE
	SANITARY VALVE
CB	STORM CATCH BASIN
CB	STORM ROUND CATCH BASIN
D	STORM DRAINAGE MANHOLE
	WATER/AIR VENT
W	WATER BACKFLOW PREVENTER
	WATER BLOWOFF
	WATER METER
WSO	WATER SHUTOFF
W	WATER VALVE VAULT
WV	VALVE

UTILITY/CIVIL LINE SYMBOLOGY

Symbol	Description
	PIPELINE
	LARGE PIPELINE
	UTILITY BENEATH STRUCTURE
25	NEW CONTOUR (MAJOR)
	ROCK BERM
	SILT FENCE
	TOE OF SLOPE
	TOP OF SLOPE
FO	FIBER OPTIC
OIL	FUEL OIL
G	NATURAL GAS
	INDUSTRIAL WASTE WATER
SAS	SANITARY SEWER
SS	STORM SEWER
W	DOMESTIC WATER
OHE	OVERHEAD POWER

GENERAL NOTES

1. THIS IS A STANDARD CIVIL SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE:
INSPECTOR'S ACCEPTANCE BY — DATE:
FIELD VERIFICATION BY — DATE:
DRAWINGS CORRECTED BY — DATE:

MICRO-FILM INFORMATION
RECORDED BY — DATE:
NO.

BENCHMARKS
PROJECT PRIMARY BENCHMARK: 5_K16A
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FIELD NOTES
NO. | BY | DATE

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REVISIONS
NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY: XX DATE: 2/19/2015
DRAWN BY: XX DATE: 2/19/2015
CHECKED BY: XX DATE: 2/19/2015

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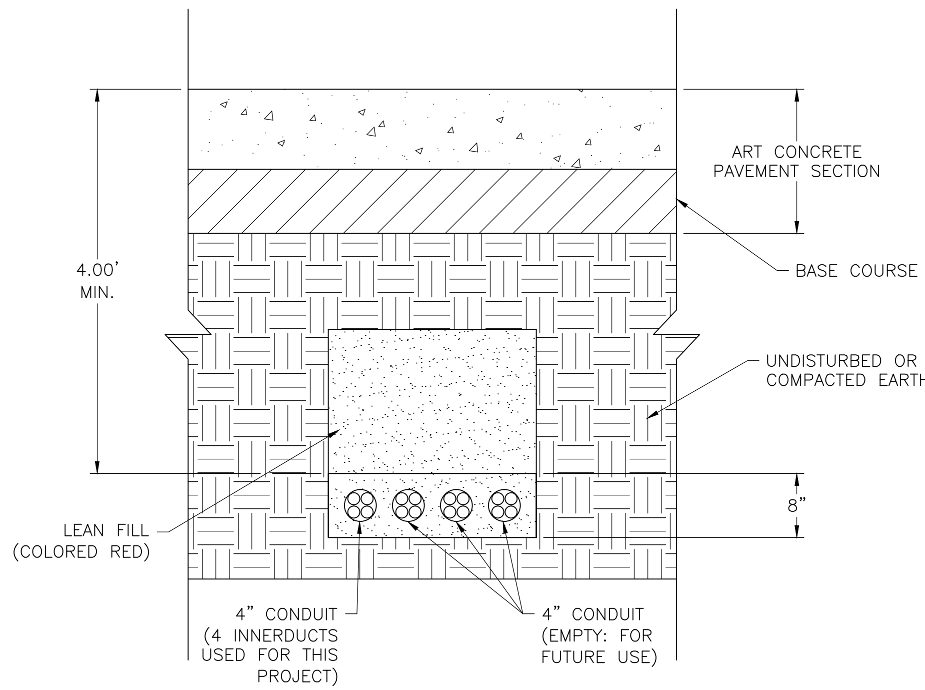
ABQ RIDE
CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
PROPOSED UTILITY LEGEND AND DETAILS

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	61	62



DUCT BANK TYPICAL DETAIL
NOT TO SCALE

AS BUILT INFORMATION

CONTRACTOR DATE:
WORK STAKED BY DATE:
INSPECTOR'S ACCEPTANCE BY DATE:
FIELD VERIFICATION BY DATE:
DRAWINGS CORRECTED BY DATE:

MICRO-FILM INFORMATION

RECORDED BY DATE:
NO.

BENCHMARKS

PROJECT PRIMARY BENCHMARK: 5_K16A
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ABQ RIDE

CITY OF ALBUQUERQUE
TRANSIT DEPARTMENT
ABQ RIDE

TITLE: CENTRAL AVENUE ALBUQUERQUE RAPID TRANSIT
UTILITY DUCT BANK DETAIL

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

CITY PROJECT NO.	ZONE MAP NO.	SEGMENT NO.	SHEET	OF
631991	J12-13, K10-19	CS	62	62