◦ LEGEND ◦

MATERIALS

- CONCRETE
- RIP-RAP

LINES

- SUBDIVISION BOUNDARY
- PROPERTY LINE (PLAN)
- PROPERTY LINE (SECTION)
- CENTERLINE
- EASEMENT LINE
- MATCH LINE
- SECTION CUT LINE

EARTHWORK

	EXISTING	NEW
CONTOUR LINE	--25---	25
SPOT ELEVATION	⊕	⊕
PROJECT / PHASE BOUNDARY		
FLOWLINE		
DIRECTION OF FLOW		

MISCELLANEOUS UTILITIES

- GAS LINE
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRICAL
- STORM DRAIN
- STORM DRAIN MANHOLE
- STORM DRAIN INLET

SANITARY SEWER

- SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- SAS SERVICE CONNECTIONS
- SAS CAP OR PLUG
- ENCASEMENT

WATER

- WATER LINE
- WATER SERVICE CONNECTIONS
- GATE VALVE
- FIRE HYDRANT
- BUTTERFLY VALVE
- REDUCER
- WATER PRESSURE ZONE BOUNDARY

WATER FITTINGS

- CAPS AND PLUGS
- ELBOW
- CROSS
- TEE

MISCELLANEOUS

- CHAINLINK FENCE
- FIELD FENCE
- COMMON YARD WALL
- RETAINING WALL
- POWER OR TELEPHONE POLE

File Path: [redacted] | Plot Date: 01-19-2009
File Name: 5180AP1.DWG | Plot Time: 09:46 am

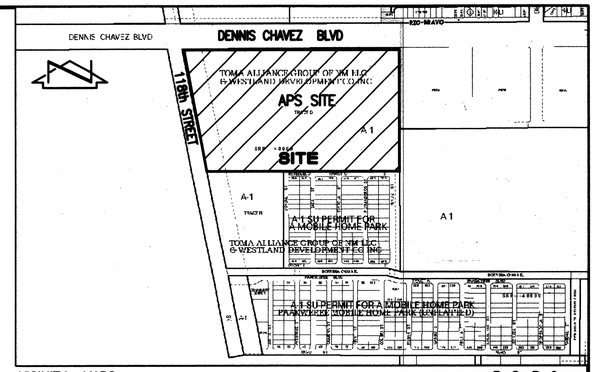
1 3 4 5 6 7 8 9 10 11 12 13 14 15
216-7159A 118-2010

SCANNED BY PLANNING

CONSTRUCTION PLANS for

APS ATRISCO HERITAGE ACADEMY HIGH SCHOOL DENNIS CHAVEZ BLVD. S.W./ 118TH STREET S.W. PHASE 1 SIGNALIZATION

ALBUQUERQUE, NEW MEXICO
JANUARY, 2009



VICINITY MAPS P-8, P-9
SCALE: 1" = 750'±

INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2	BASELINE AND HORIZONTAL CONTROL PLAN
3	TRAFFIC NOTES, LEGEND, EQUIPMENT REQUIREMENTS AND INCIDENTAL ITEMS
4	TRAFFIC SIGNAL ESTIMATED QUANTITIES, INCIDENTAL ITEMS
5	TRAFFIC SIGNAL PLAN
6	TRAFFIC SIGNAL CABLES AND CONDUITS
7	FUNCTIONS AND DETECTORS
8	STRIPING AND SIGNAGE PLAN

⚠

RECORD DRAWING

CERTIFICATE OF SUBSTANTIAL COMPLIANCE

I, J. GRAEME MEANS, NMPE 13676, OF THE FIRM HIGH MESA CONSULTING GROUP, HEREBY CERTIFY THAT THE PUBLIC INFRASTRUCTURE CONSTRUCTED AS PART OF THIS PROJECT HAS BEEN INSPECTED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE AND BELIEF, HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE ORIGINAL DESIGN INTENT OF THE CITY ENGINEER APPROVED PLANS.

THE RECORD SURVEY INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT WAS OBTAINED UNDER THE DIRECT SUPERVISION OF CHARLES G. CALA, JR., NMPS 11184, ALSO OF HIGH MESA CONSULTING GROUP.

I CERTIFY THAT THIS INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THESE RECORD DRAWINGS ARE NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE DESIGN INTENT OF THE PROJECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER.

J. GRAEME MEANS, NMPE 13676 — DATE 10/08/10

J. GRAEME MEANS STATE OF NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 10-25-2010

PWCO 80032

N/A

BERNALILLO COUNTY PUBLIC WORKS DIVISION DATE

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS–PUBLIC WORKS CONSTRUCTION–1986 – UPDATE NO. 7, INCLUDING AMENDMENT #1.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260–1990, (ALBUQUERQUE AREA) 1–800–321–ALERT (2537) (STATEWIDE) FOR LOCATION OF EXISTING UTILITIES.
3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
4. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
8. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
9. TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE ENGINEER.
10. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
11. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
12. ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
13. CONTRACTOR SHALL COORDINATE WITH THE ABCWUA WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY ABCWUA WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATIONS. THE ABCWUA WATER SYSTEM DIVISION PHONE NUMBER IS 857–8200.
14. CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR 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. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION 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 SECTION 4.4 OF THE SPECIFICATIONS.
15. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO–ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO–ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924–3400) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
16. PRIVATE STREETS REQUIRE STREET NAME SIGNS, STOP SIGNS, AND ANY NECESSARY STRIPING (DEVELOPER'S RESPONSIBILITY).
17. PERMANENT PAVEMENT STRIPING WILL BE PLACED BY THE CONTRACTOR. THE ROAD SHALL NOT BE OPENED TO THE TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
18. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED–OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P–EXCAVATIONS.
19. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY–FOUR HOUR CONSTRUCTION.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE CITY.
21. CONTRACTOR SHALL MAINTAIN A GRAFFITI–FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
22. WHEN APPLICABLE, CONTRACTOR SHALL SECURE, ON BEHALF OF THE OWNER AND OPERATORS, "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
23. THIS SET OF PLANS SHOWS PRIVATE RETAINING WALLS THAT ARE NOT PART OF THIS WORK ORDER. THOSE WALLS MUST BE REVIEWED, APPROVED AND PERMITTED BY SEPARATE PROCESS. CONTACT 924–3956 (ONLY USE WHEN APPLICABLE)

2008.186.6
~~2005.180.4~~

HIGH MESA Consulting Group
6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

⚠	1-8		1.2010				
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

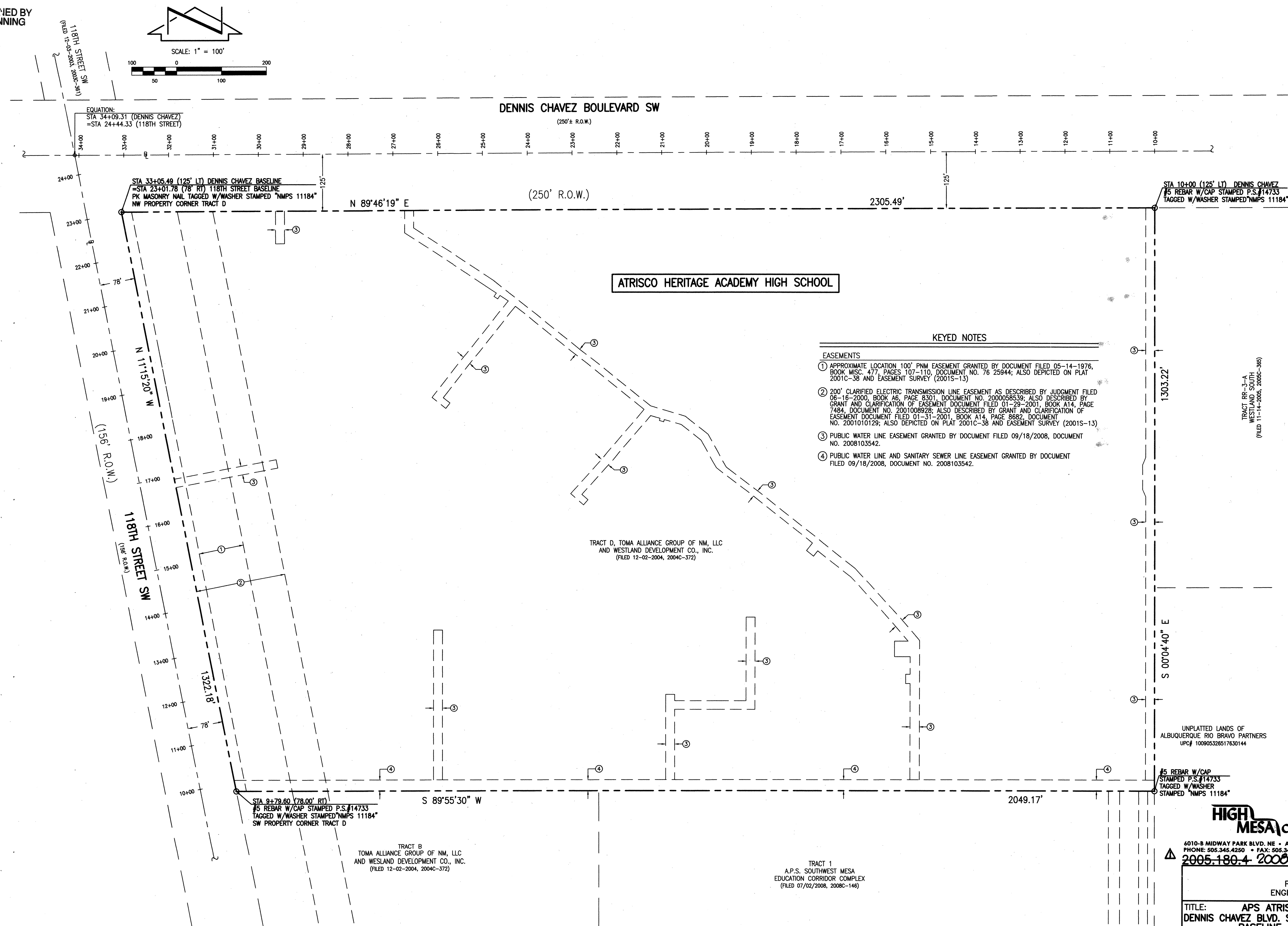
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE
J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER 01/19/2009 02/01/2009	DRC Chairman		3-6-09
	Transportation		02-05-09
	Water/Wastewater		1-26-09
	Hydrology		1-26-09
	C.I.P.		
	Const. Mngmt.		
	Const. Coord.		

★★★★★★★★★★★★★★
APPROVED FOR CONSTRUCTION
5-12-09
City Engineer Date

City Project No. 753978

SHEET 1 OF 8

SCANNED BY PLANNING



KEYED NOTES

EASEMENTS

1. APPROXIMATE LOCATION 100' PNM EASEMENT GRANTED BY DOCUMENT FILED 05-14-1976, BOOK MISC. 477, PAGES 107-110, DOCUMENT NO. 76 25944; ALSO DEPICTED ON PLAT 2001C-38 AND EASEMENT SURVEY (2001S-13)
2. 200' CLARIFIED ELECTRIC TRANSMISSION LINE EASEMENT AS DESCRIBED BY JUDGMENT FILED 06-16-2000, BOOK A6, PAGE 8301, DOCUMENT NO. 2000058539; ALSO DESCRIBED BY GRANT AND CLARIFICATION OF EASEMENT DOCUMENT FILED 01-29-2001, BOOK A14, PAGE 7484, DOCUMENT NO. 2001008928; ALSO DESCRIBED BY GRANT AND CLARIFICATION OF EASEMENT DOCUMENT FILED 01-31-2001, BOOK A14, PAGE 8682, DOCUMENT NO. 2001010129; ALSO DEPICTED ON PLAT 2001C-38 AND EASEMENT SURVEY (2001S-13)
3. PUBLIC WATER LINE EASEMENT GRANTED BY DOCUMENT FILED 09/18/2008, DOCUMENT NO. 2008103542.
4. PUBLIC WATER LINE AND SANITARY SEWER LINE EASEMENT GRANTED BY DOCUMENT FILED 09/18/2008, DOCUMENT NO. 2008103542.

NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON BOUNDARY AND TOPOGRAPHIC SURVEY – TRACT D, PAAKWEREE BULK LAND PLAT – SOUTHWEST MESA HIGH SCHOOL SITE BY HIGH MESA CONSULTING GROUP, DATED 3/14/2006, NMPS 11184, PUBLIC WATER AND SANITARY SEWER EASEMENT ON TRACT D IS BASED ON EASEMENT SURVEY DATED 09/08/2008, ALSO PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184.

RECORD DRAWING

AS BUILT INFORMATION

CONTRACTOR	Simard Electrical Services		
WORK STAKED BY	HMCG	DATE	6-2009
INSPECTOR'S ACCEPTANCE BY	HMCG	DATE	[illegible]
FIELD VERIFICATION BY	HMCG	DATE	11-2009
DRAWINGS CORRECTED BY	HMCG	DATE	01-2010

MICRO-FILM INFORMATION

RECORDED BY | DATE
NO.

BENCH MARKS

A 60 PENNY NAIL IN THE EAST SIDE OF THE EAST POLE OF PYLON #69/3
CITY OF ALBUQUERQUE BENCH MARK 1-P9(R)
ELEVATION = 5197.181 FEET (NGVD1929)

SURVEY INFORMATION

FIELD NOTES NO.	BY	DATE
2005.180.2	JMA	3/14/06

ENGINEER'S SEAL

J. GRAEME MEANS, NEW MEXICO 13676, REGISTERED PROFESSIONAL ENGINEER
01/19/2009

NO.	DATE	REMARKS	BY
1	1/2010	RECORD DRAWING	G.M.

Revisions		
DESIGN		
Designed By	G.M.	Date 10-2008
Drawn By	JLP/JMH	Date 10-2008
Checked By	G.M.	Date 01-2009

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~~2005.180.4~~ 2008.180.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: APS ATRISCO HERITAGE ACADEMY HIGH SCHOOL
DENNIS CHAVEZ BLVD. S.W./118TH STREET S.W. PHASE 1 SIGNALIZATION
BASELINE AND HORIZONTAL CONTROL PLAN

Design Review Committee: APPROVED MAR 06 2009 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 12 2009 CITY ENGINEER
Last Design Update

City Project No. 753978 | Zone Map No. P-8 | Sheet 2 of 8

File Path:	[redacted]
File Name:	51804P2.DWG
Plot Date:	01-19-2009
Plot Time:	09:48 am

SCANNED BY PLANNING

SIGNAL NOTES

1. ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, THE CITY'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994), AND THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST UPDATE.
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 MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
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. THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.
5. SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SPLICE BARS. SPLICING OF TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES.
6. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, STEEL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.
7. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS(857-8000) THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS, LIGHTING, AND POWER SERVICES. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT-OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED.
8. THE CONTRACTOR SHALL NOTIFY PUBLIC SERVICE COMPANY 30 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC SERVICE COMPANY TO ESTABLISH ELECTRICAL SERVICE IN THE CITY'S NAME. THE CONTRACTOR SHALL PAY THE LOCAL POWER COMPANY ALL COSTS TO PROVIDE ELECTRICAL SERVICE. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
9. LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE.
10. IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.
11. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES, THE REQUIREMENTS FOR A SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRIC CODE.
12. THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.
13. THE CONTRACTOR SHALL PROVIDE OFF-DUTY POLICE OFFICERS TO DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
14. ALL DATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING. IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES, COST OF LOCATING UTILITY LINES INCLUDING EXPLORATORY TRENCHING WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
15. IN THE EVENT THAT LANDFILL DEBRIS IS ENCOUNTERED IN EXCAVATIONS WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL REMOVE THE DEBRIS WITHIN THE LIMITS OF THE WORK AND DISPOSE IN ACCORDANCE WITH ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT REQUIREMENTS. THIS WORK WILL BE CONSIDERED INCIDENTAL.
16. THE FOLLOWING CITY OF ALBUQUERQUE STANDARD DRAWINGS SHALL BE USED FOR THIS PROJECT:

2415B	CURB AND GUTTER AND TEMPORARY PAVING SECTION
2550	TRAFFIC SIGNAL PULL BOX DETAIL
2551	TRAFFIC SIGNAL MANHOLE DETAIL
2552	TRAFFIC SIGNAL LOOP DETECTOR DETAILS
2555	TRAFFIC SIGNAL CONTROLLER CABINET & PEDESTAL FOUNDATION DETAIL
2557	TRAFFIC SIGNAL SPLICE CABINET GROUND MOUNT (LARGE)
2558	TRAFFIC SIGNAL FOUNDATION DETAILS TYPE II AND TYPE III STANDARDS
2560	TRAFFIC SIGNAL MISCELLANEOUS DETAILS
2562A	TRAFFIC SIGNAL MASTARM DETAILS, TYPE II STANDARD
2562B	TRAFFIC SIGNAL MASTARM DETAILS, TYPE II STANDARD
2562C	TRAFFIC SIGNAL MASTARM DETAILS, TYPE III STANDARD
2562D	TRAFFIC SIGNAL TYPE III STANDARD MISC. DETAILS
2570	TRAFFIC SIGNAL ELECTRICAL SERVICE DETAILS
2572	TRAFFIC SIGNAL METER PEDESTAL DETAILS COMBINATION SIGNAL & LIGHTING
2580	STREET LIGHTING FOUNDATION & MISCELLANEOUS DETAILS
2581	STREET LIGHTING INSTALLATION & POLE DETAILS
2801	GENERAL NOTES
2802	TRAFFIC CONTROL SIGNING
2803	CONSTRUCTION TRAFFIC CONTROL
2804-2808	SIGNING EXAMPLES (MUTCD)

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

1. CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
   A. THE TRAFFIC SIGNAL CONTROLLER SUPPLIED FOR THIS PROJECT SHALL BE AS DIRECTED BY COA TRAFFIC ENGINEERING DEPARTMENT (ANDREW GALLEGOS, 857-8004).
   B. THE TRAFFIC SIGNAL CONTROLLER CABINET SUPPLIED FOR THIS PROJECT SHALL BE AS DIRECTED BY COA.
2. SPLICE CABINETS SHALL BE AS DETAILED ON THE PLANS. LOW VOLTAGE SPLICE BLOCKS SHALL BE 50 UNITS TO THE FOOT, WITH EACH SPLICE BLOCK CAPABLE OF HANDLING 25 PAIR CABLE (NUMBER OF SPLICE BLOCKS IN EACH CABINET CAPABLE OF HANDLING NUMBER OF CONDUCTORS AS SHOWN ON PLANS). SPLICE BLOCKS SHALL BE BELL SYSTEMS PART #6683-50 OR APPROVED EQUAL. ALL COMMUNICATION CABLE PAIRS SHALL BE TERMINATED AT THE SPLICE BLOCK INCLUDING INACTIVE PAIRS.
3. INTERCONNECT CABLES SHALL COMPLY WITH REA SPECIFICATION PE-22. INTERCONNECT CABLE SHALL CONTAIN THE NUMBER OF WIRE PAIRS SHOWN ON THE PLANS AND THE INDIVIDUAL CONDUCTORS SHALL BE 19 AWG SOLID.
4. ALL SIGNAL INDICATORS AND PEDESTRIAN SIGNALS SHALL BE LED, AS APPROVED BY THE CITY. PEDESTRIAN SIGNAL SHALL BE COUNTDOWN MODEL AS APPROVED BY THE CITY.

LIGHTING NOTES

1. ALL SINGLE CONDUCTOR #10 COPPER WIRES CONNECTING THE MAIN CIRCUIT WIRING TO CORRESPONDING LUMINARIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE MASTARM.
2. THE SIGNAL & LIGHTING SYSTEM INSTALLED AS PART OF THIS PROJECT SHALL BE ACCEPTED AND MAINTAINED BY THE CITY OF ALBUQUERQUE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND COST OF ENERGIZING THE SYSTEM UNTIL SUCH TIME THAT THE CITY ACCEPTS THE RESPONSIBILITY.
4. THE CONTRACTOR SHALL INSTALL TYPE III, 400 WATT, HIGH PRESSURE SODIUM, FLAT GLASS LUMINARIES WITHOUT INDIVIDUAL PHOTO CELLS AS INDICATED ON THE PLANS.
5. THE LIGHTING IS TO SERVED BY METER PEDESTAL IN COMBINATION WITH TRAFFIC SIGNALS (SEE SIGNAL PLAN).

CONSTRUCTION TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN AN EXCAVATION/BARRICADING PERMIT IN ACCORDANCE WITH SECTION 2800 OF THE STANDARD SPECIFICATIONS.
2. THE CONTRACTOR SHALL NOT CLOSE MORE THAN ONE TRAFFIC LANE IN ANY ONE DIRECTION AT A TIME.
3. IN THE EVENT THAT THE CONTRACTOR IS REQUIRED BY THE CITY OR OTHER AUTHORITY TO PERFORM WORK DURING OFF-PEAK OR OVERNIGHT HOURS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, ADDED COSTS ASSOCIATED WITH SUCH WORK HOURS WILL BE CONSIDERED INCIDENTAL.
4. CONTRACTOR TO COORDINATE TRAFFIC CONTROL WITH CITY OF ALBUQUERQUE AND APS CONSTRUCTION MANAGER. ACCESS TO BE MAINTAINED THROUGHOUT THE PROJECT.

GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID, AND DISCREPANCIES IN THE PROJECT DOCUMENTS ARE TO BE ALERTED TO THE PROJECT MANAGER.
2. THE CONTRACTOR SHALL ROUTE ALL PROJECT SCHEDULES, RFI's, CONTRACT INFORMATION, SHOP DRAWINGS, SUBMITTAL SHEETS, WARRANT INFORMATION, AND PAYMENT REQUESTS TO THE PROJECT MANAGER.

TRAFFIC SIGNAL LEGEND

NEW	EXISTING	ITEM
■	□	PULL BOX
●	○	SERVICE POLE
M	M	METER PEDESTAL
C	C	CONTROLLER CABINET
----------	----------	CONDUIT RUN (SIGNALS)
—— · · · ——	—— · · · ——	CONDUIT RUN (INTERCONNECT)
		LOOP DETECTOR (SINGLE)
		LOOP DETECTOR (QUAD)
●←	○←	TRAFFIC SIGNAL PEDESTAL POLE
1	1	CONDUIT RUN NUMBER
		TYPE II STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACK PLATE, AND OPTICAL DETECTOR
		TYPE III STANDARD WITH MASTARM, TRAFFIC SIGNAL, BACK PLATE, 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

DEFINITIONS

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

AS BUILT INFORMATION
CONTRACTOR: Simard Electrical Services DATE 6-2009
WORKED BY: HMCG INSPECTOR'S ACCEPTANCE BY: HMCG DATE 11-2009
SURVEY VERIFICATION BY: HMCG DATE 1-2010
CORRECTED BY: HMCG DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE:
NO.:

BENCH MARKS
A 60 PENNY NAIL IN THE EAST SIDE OF THE EAST POLE OF PYLON #69/3.
CITY OF ALBUQUERQUE BENCH MARK 1-PM(R)
ELEVATION = 5197.181 FEET (NGVD1929)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
2005.180.2	JMA	3/14/06

ENGINEER'S SEAL
JAMES GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER
01/19/2009

NO.	DATE	REMARKS	BY
1	12-2010	RECORD DRAWING.	GM
		Revisions	
		DESIGN	
		Designed By: G.M.	Date 10-2008
		Drawn By: J.L.P.	Date 10-2008
		Checked By: G.M.	Date 01-2009

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2005.180.4 2008.186.G

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: APS ATRISCO HERITAGE ACADEMY HIGH SCHOOL
DENNIS CHAVEZ BLVD. S.W./118TH STREET S.W. PHASE 1 SIGNALIZATION
TRAFFIC NOTES, LEGEND, EQUIPMENT REQUIREMENTS AND INCIDENTAL ITEMS

Design Review Committee: APPROVED MAR 06 2009 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 12 2009 CITY ENGINEER
Last Design Update: mo./day/yr. mo./day/yr.

City Project No. 753978 | Zone Map No. P-8 | Sheet 3 Of 8

⚠ RECORD DRAWING

File Path: [redacted] | Plot Date: 01-19-2009
File Name: 51804P3.DWG | Plot Time: 09:50 am

TRAFFIC SIGNAL ESTIMATED QUANTITIES

		UNIT	TRAFFIC SIGNAL	LIGHTING	TOTAL
0421.01X	METER PEDESTAL (SIGNAL & LIGHTING)	EACH	1		1
0422.016	TRAFFIC SIGNAL MASTARM, 30 FOOT ARM, TYPE II, TROMBONE	EACH	2		2
0422.021	TRAFFIC SIGNAL MASTARM, 40 FOOT ARM, TYPE III, TROMBONE	EACH	2		2
0423.002	TRAFFIC SIGNAL MASTARM FOUNDATION (TYPE B)	EACH	4		4
0423.003	TRAFFIC CONTROLLER FOUNDATION (TYPE M & P CABINETS)	EACH	1		1
0424.006	RIGID ELECTRICAL CONDUIT, 2" INCLUDING TRENCH, BACKFILL PATCHING, PUSHING, BORING & JACKING	LIN FT	65	382	447
0424.011	RIGID ELECTRICAL CONDUIT, 3" INCLUDING TRENCH, BACKFILL PATCHING, PUSHING, BORING & JACKING	LIN FT	932		932
0425.003	ELECTRICAL PULL BOX, (LARGE)	EACH	4	5	9
0426.001	SINGLE CONDUCTOR, 2	LIN FT	243	662	905
0426.004	SINGLE CONDUCTOR, 8	LIN FT		310	310
0426.005	SINGLE CONDUCTOR, 10	LIN FT		872	872
0426.010	MULTI-CONDUCTOR CABLE 5	LIN FT	1069		1069
0426.011	MULTI-CONDUCTOR CABLE 7	LIN FT	190		190
0426.014	MULTI-CONDUCTOR CABLE 20	LIN FT	1060		1060
0427.002	3 SECTION TRAFFIC SIGNAL ASSEMBLY (LED)	EACH	9		9
0427.004	5 SECTION TRAFFIC SIGNAL ASSEMBLY (LED)	EACH	5		5
0427.02X	PEDESTRIAN SIGNAL (COUNTDOWN)	EACH	8		8
0427.031	3 SECTION BACKPLATE	EACH	4		4
0427.033	5 SECTION BACKPLATE	EACH	2		2
0428.001	LOOP VEHICLE DETECTOR	EACH	6		6
0428.010	PEDESTRIAN PUSH BUTTON STATION	EACH	8		8
0428.021	LOOP DETECTOR WIRE	EACH	2218		2218
0428.050	LOOP LEAD-IN CABLE	EACH	675		675
0428.060	DETECTOR SAWCUT	EACH	830		830
0429.001	TRAFFIC ACTUATED CONTROLLER	EACH	1		1
0429.021	EIGHT PHASE DUAL RING CONTROLLER CABINET	EACH	1		1
0432.002	ROADWAY LUMINAIRE, TYPE 400S	EACH		2	2
0441.001	4" REF PLASTIC MARK	LF	110		110
0441.005	24" REF PLASTIC MARK	LF	692		692
0443.101	REMOVE PAVEMENT STRIPE ANY WIDTH	LF	240		240
0450.XXX	ILLUMINATED STREET SIGN	EACH	4		4
0450.XXX	COUNTY TRAFFIC SIGN AND POST	EACH	1		1

INCIDENTAL ITEMS *

1. ANCHOR BOLTS FOR FOUNDATION.
2. GROUND RODS FOR FOUNDATION.
3. UNIVERSAL SUPPORT BRACKETS FOR SERVICE RISERS.
4. CABLE TESTING AND DIAGRAMS.
5. 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.
6. LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING AND EXPOSING OF GAS LINES WHEN BORING.
7. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL.
8. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA.
9. HAULING OF MATERIAL TO BE DISPOSED TO CITY LANDFILL.
10. LEAN FILL FOR CONDUIT TRENCHES.
11. PULL BOX ADJUSTMENT TO GRADE.
12. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL.

* ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
2005.180.2	JMA	3/14/06

BENCH MARKS

A 60 PENNY NAIL IN THE EAST SIDE OF THE EAST POLE OF PYLON #69/3

CITY OF ALBUQUERQUE BENCH MARK 1-P9(R)

ELEVATION = 5197.181 FEET (NGVD1929)

AS BUILT INFORMATION

CONTRACTOR: Simard Electrical Services DATE 6-2009

REVIEWED BY: HMCG DATE

INSPECTOR'S FIELD COMPLIANCE BY: HMCG DATE 11-2009

VERIFICATION BY: HMCG DATE 1-2010

CORRECTED BY: HMCG DATE 1-2010

MICRO-FILM INFORMATION

RECORDED BY

DATE

NO.

ENGINEER'S SEAL

LORAINE MEANS NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14729

01/14/2009

01/02/2009

NO.	DATE	Revisions	BY
1	1-2010	RECORD DRAWING.	G.M.

DESIGN	Date
Designed By G.M.	10-2008
Drawn By JLP/DMH/BLE	10-2008
Checked By G.M.	01-2009

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~~2005.180.4~~ 2008.1826

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: APS ATRISCO HERITAGE ACADEMY HIGH SCHOOL
DENNIS CHAVEZ BLVD. S.W./118TH STREET S.W. PHASE 1 SIGNALIZATION
TRAFFIC SIGNAL ESTIMATED QUANTITIES, INCIDENTAL ITEMS

Design Review Committee: APPROVED MAR 06 2009 DESIGN REVIEW COMMITTEE

City Engineer Approval: APPROVED MAY 12 2009 CITY ENGINEER

Last Design Update: No./Date/Yr. | No./Date/Yr.

City Project No. 753978 | Zone Map No. P-8 | Sheet 4 Of 8

⚠ RECORD DRAWING

File Path: [redacted] | Plot Date: 01-27-2009
File Name: 51804P4.DWG | Plot Time: 1:18 pm

SCANNED BY PLANNING

*** ALL STATIONING BASED ON DENNIS CHAVEZ BASELINE ***

SIGNAL POLES AND MASTARMS

ID#	TYPE	STA	OFFSET		
MA1	MASTARM -40' TYPE III W/LUMINAIRE	~~33+52.19~~	~~36.31' LT~~	33+52.13	36.54 LT.
MA2	MASTARM -30' TYPE II	~~34+43.37~~	~~42.21' LT~~	34+43.92	42.19 LT.
MA3	MASTARM -40' TYPE III W/LUMINAIRE	~~34+52.56~~	~~63.16' RT~~	34+52.53	63.11 RT.
MA4	MASTARM -30' TYPE II	~~33+70.84~~	~~74.72' RT~~	33+70.74	74.86 RT.

DETECTOR LOOP LEAD-IN CABLE

FROM	TO	CONDUIT TRACE	# PAIR x LENGTH	TOTAL LENGTH
PB4	CONTROLLER	8 - 3	3 @ 121	363
PB3	CONTROLLER	3	1 @ 30	30
PB2	CONTROLLER	5 - 3	2 @ 141	282
			TOTAL	675

PULL BOX & CONTROLLER LOCATION DATA

ID#	STA	OFFSET		
PB1	~~33+51.38~~	~~57.44' RT~~	33+57.15	60.41 RT.
PB2	~~33+58.41~~	~~40.73' LT~~	33+43.91	34.06 LT.
PB3	~~33+61.12~~	~~63.13' RT~~	33+66.13	70.84 RT.
PB4	~~34+44.35~~	~~65.99' LT~~	33+40.80	69.09 RT.
PB5	~~34+43.24~~	~~80.67' RT~~	34+43.74	69.12 RT.
PB6	~~34+59.52~~	~~56.30' RT~~	34+62.03	57.99 RT.
PB7	~~34+48.99~~	~~36.25' LT~~	34+47.35	35.51 LT.
PB8	~~33+48.57~~	~~32.25' LT~~	34+44.22	30.58 LT.
PB9	~~34+50.86~~	~~24.82' LT~~	34+61.31	26.06 LT.
C	~~33+76.78~~	~~81.51' RT~~	33+72.53	82.96 RT.
M	~~33+73.41~~	~~86.72' RT~~	33+74.05	91.61 RT

ABBREVIATIONS

MAI	MASTARM NUMBER
PP1	PEDESTAL POLE NUMBER
PPB1	PEDESTRIAN PUSH BUTTON NUMBER
CC1	CONTROL CABINET NUMBER
SC1	SPLICE CABINET NUMBER
PB1	PULL BOX NUMBER (SIGNALS)
PBS1	PULL BOX NUMBER (POWER)
PBC1	PULL BOX NUMBER (INTERCONNECT)
DL1(1)	DETECTOR LOOP PHASE # (LOOP #)
3A	SIGNAL HEAD NUMBER
P1	PEDESTRIAN SIGNAL NUMBER
BP	BACK PLATE
EC	EXTENDED CALL LOOP DETECTOR
SD	SYSTEM LOOP DETECTOR
MH1	TRAFFIC MANHOLE NUMBER

SYMBOL KEY

MA1	SIGNAL & CABINET ID
99	CONDUIT RUN ID
S1	CONDUIT RUN ID (POWER/LIGHTING)

FLASH CONDITION

RED HEADS	4A, 4B, 4M1, 8A, 8B, 8M1
RED HEADS	2M1, 2M2, 2A, 2B, 6M1, 6M2, 6A, 6B

INITIALIZATION

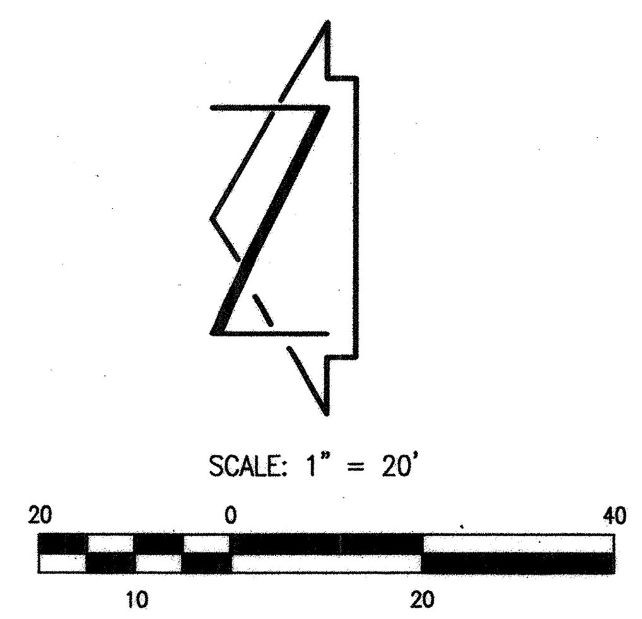
ALL RED, THEN PHASES 2&6 GREEN

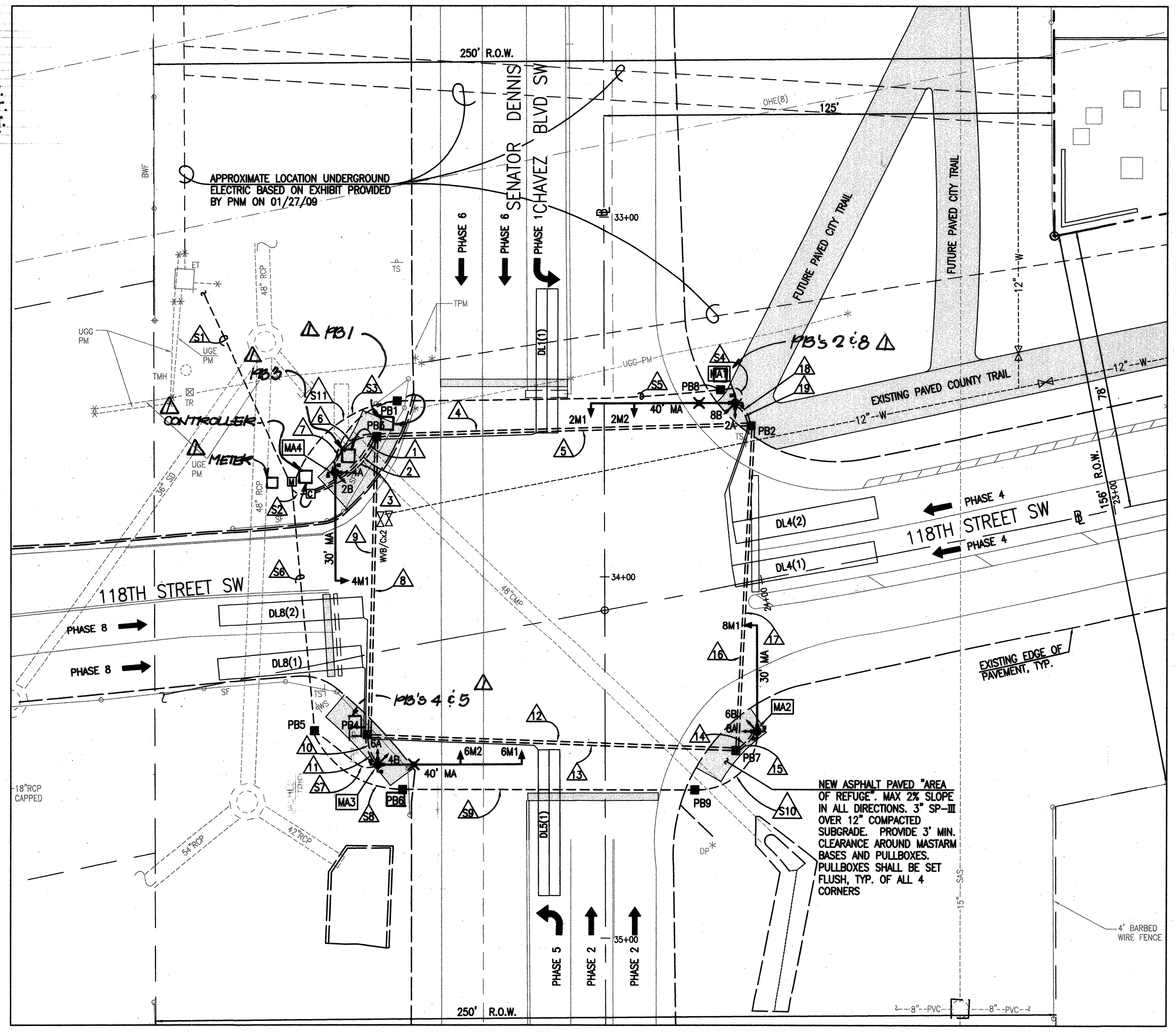
NOTES

1. ALL PULL BOXES SHALL BE LARGE SIZE

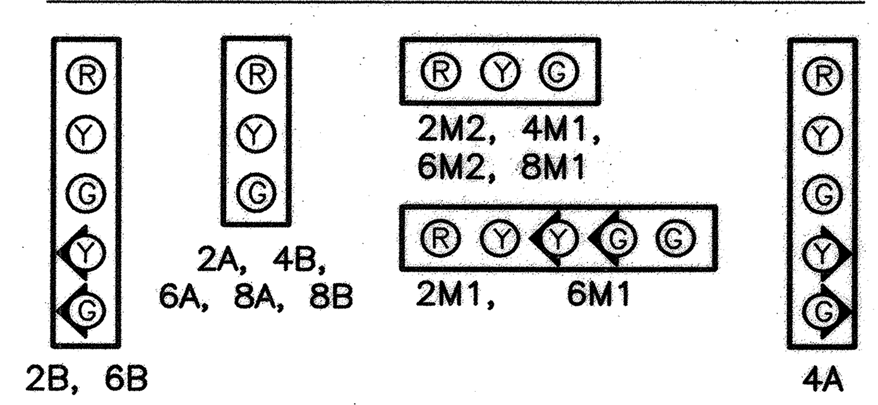
STREET NAME SIGNS

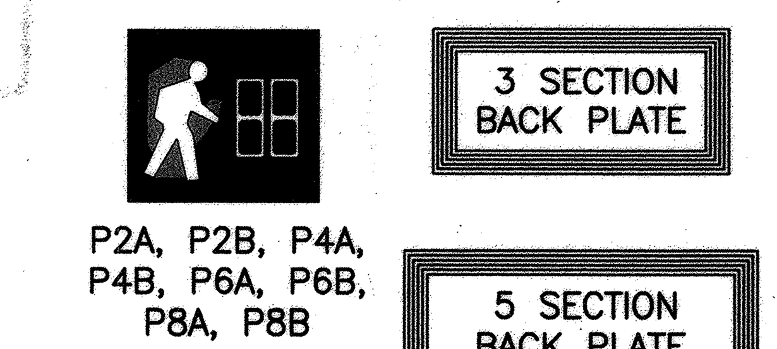
1. SHALL BE PROVIDED ON EACH MASTARM
2. SHALL BE INTERNALLY ILLUMINATED LED SIGNS BY CARMANAH TECHNOLOGIES CORPORATION OR AS APPROVED BY THE CITY ALBUQUERQUE TRAFFIC OPERATIONS ENGINEERING.



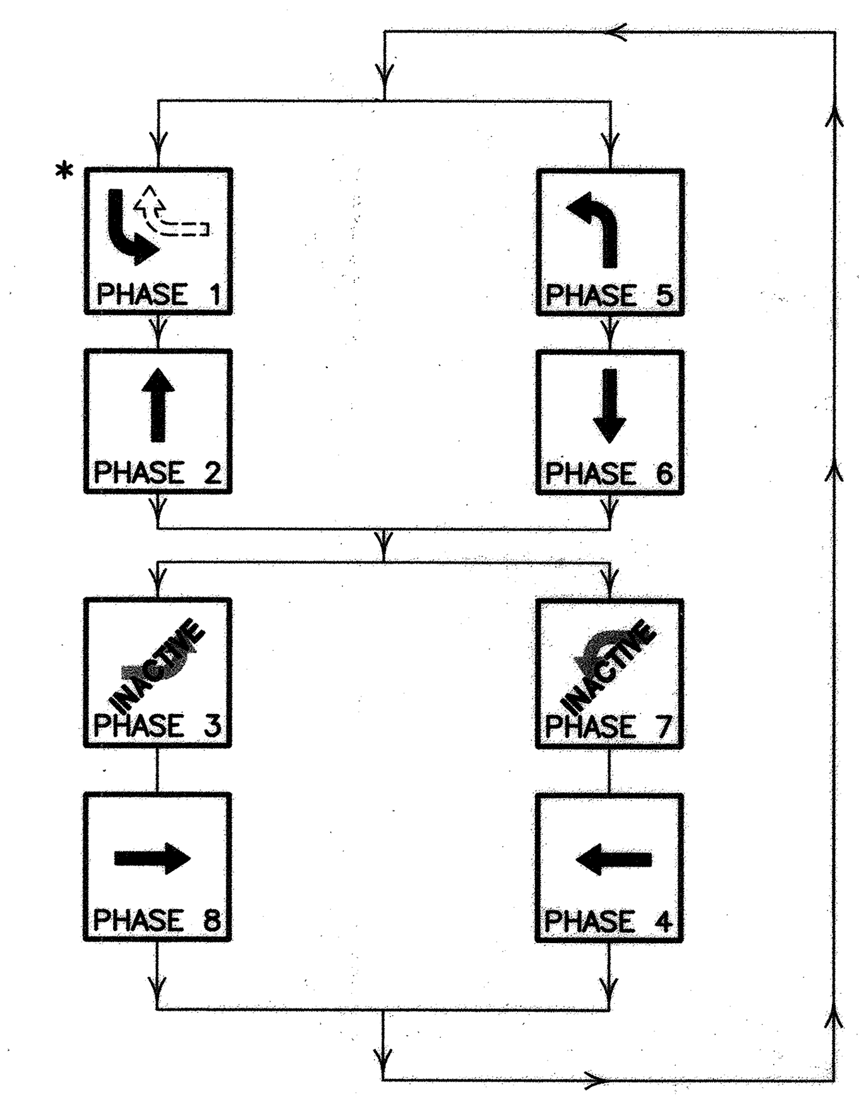


TYPICAL SIGNAL FACE LENS ARRANGEMENTS





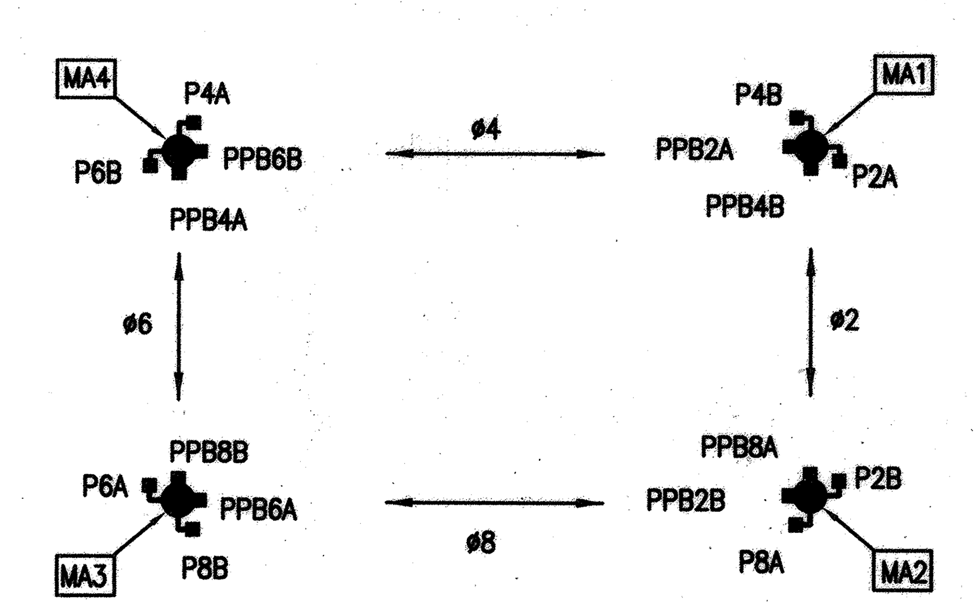
SIGNAL PHASING



* ø1 - ø4 OVERLAP

PEDESTRIAN SIGNAL & PUSHBUTTON ID DETAIL

(NTS)



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~~2005.180.4~~ 2008.186.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: APS ATRISCO HERITAGE ACADEMY HIGH SCHOOL
DENNIS CHAVEZ BLVD. S.W./118TH STREET S.W. PHASE 1 SIGNALIZATION
TRAFFIC SIGNAL PLAN

Design Review Committee	City Engineer Approval	Last Design Update
APPROVED MAR 06 2009 DESIGN REVIEW COMMITTEE	APPROVED MAY 12 2009 CITY ENGINEER	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
753978	P-8	5	8

NO.	DATE	REMARKS	BY
1	1-2010	RECORD DRAWING & CERT.	G.M.

Revisions

DESIGN

Designed By	G.M.	Date	10-2008
Drawn By	JLP/CFA/BLE	Date	10-2008
Checked By	G.M.	Date	01-2009

ENGINEER'S SEAL

J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER 01/19/2009 02/02/09

SURVEY INFORMATION

FIELD NOTES NO.	BY	DATE
2005.180.2	JMA	3/14/06

BENCH MARKS

A 60 PENNY NAIL IN THE EAST SIDE OF THE EAST POLE OF PYLON #69/3
CITY OF ALBUQUERQUE BENCH MARK 1-P9(R)
ELEVATION = 5197.181 FEET (NGVD1929)

AS BUILT INFORMATION

CONTRACTOR	Simard Electrical Services		
WORK STAKED BY	HMCG	DATE	6-2009
INSPECTOR'S ACCEPTANCE BY	HMCG	DATE	
FIELD VERIFICATION BY	HMCG	DATE	11-2009
DRAWINGS CORRECTED BY	HMCG	DATE	01-2010

MICRO-FILM INFORMATION

RECORDED BY		DATE	
NO.			

RECORD DRAWING

FOR CERTIFICATION, SEE SHEET 1

File Path:	[redacted]	Plot Date:	01-27-2009
File Name:	51804P5.DWG	Plot Time:	1:49 pm

CONDUIT AND CONDUCTOR REQUIREMENTS

RUN ID	CONDUIT LENGTH, SIZE, AND TYPE: SIZE/LENGTH 25 1"	2"	3"	TYPE	REMARKS	CONDUIT FILL BY CONTRACTOR LENGTH AND TYPE: MCC 5 (# @ FT)	MCC 7 (# @ FT)	MCC 20 (# @ FT)	SCC #2 (# @ FT)	SCC #8 (# @ FT)	SCC #10 (# @ FT)	DLLIC (# @ FT)	CC #6 (# @ FT)	CC #12 (# @ FT)	OPTICOM (# @ FT)
S1		60		REC	POWER TO METER				3 @ 70						
S2		5		REC	METER TO CC1				3 @ 11						
S3		35		REC	METER TO PB1				2 @ 41		2 @ 41				
S4		5		REC	PB8 TO MA1					2 @ 11	2 @ 11				
S5		90		REC	PB1 TO PB8				2 @ 96		2 @ 96				
S6		66		REC	METER TO PB5				2 @ 72		2 @ 72				
S7		20		REC	PB5 TO MA3					2 @ 26	2 @ 26				
S8		30		REC	PB5 TO PB6				2 @ 36		2 @ 36				
S9		80		REC	PB6 TO PB9				2 @ 86		2 @ 86				
S10		30		REC	PB9 TO MA2					2 @ 36	2 @ 36				
S11		26		REC	PB1 TO MA4					2 @ 32	2 @ 32				
1			24	REC	CC1 TO PB3			2 @ 26							
2			24	REC	CC1 TO PB3			2 @ 26							
3			24	REC	CC1 TO PB3	1 @ 26						6 @ 30			
4			105	REC	PB2 TO PB3			2 @ 111							
5			105	REC	PB2 TO PB3	1 @ 111						2 @ 111			
6			15	REC	PB3 TO MA4			2 @ 21							
7			15	REC	PB3 TO MA4	1 @ 21									
8			85	REC	PB3 TO PB4	1 @ 91						3 @ 91			
9			85	REC	PB3 TO PB4			2 @ 91							
10			10	REC	PB4 TO MA3			2 @ 16							
11			10	REC	PB4 TO MA3	1 @ 16									
12			105	REC	PB4 TO PB7	1 @ 111									
13			105	REC	PB4 TO PB7			2 @ 111							
14			10	REC	PB7 TO MA2	1 @ 16									
15			10	REC	PB7 TO MA2			2 @ 16							
16			90	REC	PB7 TO PB2	1 @ 96									
17			90	REC	PB7 TO PB2			2 @ 96							
18			10	REC	PB2 TO MA1			2 @ 16							
19			10	REC	PB2 TO MA1	1 @ 16									
MA1					BASE TO 2A	1 @ 20									
MA1					BASE TO 8B	1 @ 20									
MA1					BASE TO 2M2	1 @ 65									
MA1					BASE TO 2M1		1 @ 65								
MA1															
MA1					BASE TO P2A	1 @ 20									
MA1					BASE TO P4B	1 @ 20									
MA1					BASE TO PPB2A	1 @ 10									
MA1					BASE TO PPB4B	1 @ 10									
MA4					BASE TO 2B		1 @ 20								
MA4					BASE TO 4A		1 @ 20								
MA4					BASE TO 4M1	1 @ 55									
MA4					BASE TO P4A	1 @ 20									
MA4					BASE TO P6B	1 @ 20									
MA4					BASE TO PPB6B	1 @ 10									
MA4					BASE TO PPB4A	1 @ 10									
MA3					BASE TO 6A	1 @ 20									
MA3					BASE TO 4B	1 @ 20									
MA3					BASE TO 6M2	1 @ 50									
MA3					BASE TO 6M1		1 @ 65								
MA3															
MA3					BASE TO P8B	1 @ 20									
MA3					BASE TO P6A	1 @ 20									
MA3					BASE TO PPB8B	1 @ 10									
MA3					BASE TO PPB6A	1 @ 10									
MA2					BASE TO 8A	1 @ 20									
MA2					BASE TO 6B		1 @ 20								
MA2					BASE TO 8M1	1 @ 55									
MA2					BASE TO P2B	1 @ 20									
MA2					BASE TO P8A	1 @ 20									
MA2					BASE TO PPB8B	1 @ 10									
TOTAL		447	932			1069	190	1060	905	310	872	675			

ABBREVIATIONS

CC 6	COMMUNICATION CABLE-6 PAIR
CC 12	COMMUNICATION CABLE-12 PAIR
DLLIC	DETECTOR LOOP LEAD IN CABLE
MA	MASTARM
MCC	MULTI CONDUCTOR CABLE
PB	PULL BOX
PP	PEDESTAL POLE
PPB	PEDESTRIAN PUSH BUTTON
REC	RIGID ELECTRIC CONDUIT
SCC	SINGLE CONDUCTOR CABLE

RECORD DRAWING

AS BUILT INFORMATION
CONTRACTOR: Sinard Electrical Services DATE 01-2009
WORK STAKED BY: HMCG DATE
INSPECTOR'S ACCEPTANCE BY: HMCG DATE 1-2009
FIELD VERIFICATION BY: HMCG DATE 1-2010
DRAWINGS CORRECTED BY: HMCG DATE 1-2010
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS
A 60 PENNY NAIL IN THE EAST SIDE OF THE EAST POLE OF PYLON #9/3
CITY OF ALBUQUERQUE BENCH MARK 1-P8(R)
ELEVATION = 5197.181 FEET (NGVD1929)

SURVEY INFORMATION
FIELD NOTES
NO.	BY	DATE
2005.180.2	JMA	3/14/06

ENGINEER'S SEAL
J. GRAEME MEANS, NEW MEXICO, 13676, REGISTERED PROFESSIONAL ENGINEER
01/19/2009 02/02/09

NO.	DATE	REMARKS	BY
1	1-2010	RECORD DRAWING	G.M.

Revisions
DESIGN
Designed By G.M. Date 10-2008
Drawn By JLP/DMH/BLE Date 10-2008
Checked By G.M. Date 01-2009

HIGH MESA Consulting Group
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PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com
~~2005.180.4~~ 2005.180.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: APS ATRISCO HERITAGE ACADEMY HIGH SCHOOL
DENNIS CHAVEZ BLVD. S.W./118TH STREET S.W. PHASE 1 SIGNALIZATION
TRAFFIC SIGNAL CABLES AND CONDUITS

Design Review Committee: APPROVED MAR 06 2009 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 12 2009 CITY ENGINEER
Last Design Update

City Project No. 753978 | Zone Map No. P-8 | Sheet 6 of 8

DETECTOR LOOPS

LOOP ID	VEHICLE DETECTOR				LOOP TYPE	LOOP DIMENSIONS				LOOP WIRE	PAVEMENT SAW CUT
	MODE	CALL	UNIT #	CHANNEL		L	W	S	T		
DL1 (1)	PRESENCE				QP	40	6	38	N/A	425	170
DL4 (1)	PRESENCE				LR	40	6	40	N/A	361	132
DL4 (2)	PRESENCE				LR	40	6	20	N/A	321	112
DL5 (1)	PRESENCE				QP	40	6	50	N/A	449	182
DL8 (1)	PRESENCE				LR	40	6	20	N/A	321	112
DL8 (2)	PRESENCE				LR	40	6	30	N/A	341	122
TOTALS										2218 LF	830 LF

DETECTOR RACK ASSIGNMENTS*

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

* INCIDENTAL TO CONSTRUCTION

FUNCTION CHART – 115 VOLT CIRCUIT 1/

CONDUCTOR			RING 1 – MULTI CONDUCTOR CABLE 20		RING 2 – MULTI CONDUCTOR CABLE 20 2/	
CONDUCTOR NUMBER	BASE COLOR	TRACER	FUNCTION	FIELD CONNECTION	FUNCTION	FIELD CONNECTION
1	BLACK	–	SPARE	SPARE	SPARE	SPARE
2	WHITE	–	SPARE	SPARE	SPARE	SPARE
3	RED	–	SPARE	SPARE	SPARE	SPARE
4	GREEN	–	PHASE 1 GREEN	GREEN ARROW 6B, 6M1, 4A	PHASE 5 GREEN	GREEN ARROW 2M1, 2B
5	ORANGE	–	PHASE 1 YELLOW	YELLOW ARROW 6B, 6M1, 4A	PHASE 5 YELLOW	YELLOW ARROW 2M1, 2B
6	BLUE	–	SPARE	SPARE	SPARE	SPARE
7	WHITE	BLACK	SPARE	SPARE	SPARE	SPARE
8	RED	BLACK	PHASE 2 RED	RED BALL 2A, 2B, 2M1, 2M2	PHASE 6 RED	RED BALL 6A, 6B, 6M1, 6M2
9	GREEN	BLACK	PHASE 2 GREEN	GREEN BALL 2A, 2B, 2M1, 2M2	PHASE 6 GREEN	GREEN BALL 6A, 6B, 6M1, 6M2
10	ORANGE	BLACK	PHASE 2 YELLOW	YELLOW BALL 2A, 2B, 2M1, 2M2	PHASE 6 YELLOW	YELLOW BALL 6A, 6B, 6M1, 6M2
11	BLUE	BLACK	PHASE 2 WALK	PEDESTRAIN WALK P2A, P2B	PHASE 6 WALK	PEDESTRIAN WALK P6A, P6B
12	BLACK	WHITE	PHASE 2 DON'T WALK	PEDESTRAIN DON'T WALK P2A, P2B	PHASE 6 DON'T WALK	PEDESTRIAN DON'T WALK P6A, P6B
13	RED	WHITE	PHASE 3 RED	SPARE	SPARE	SPARE
14	GREEN	WHITE	PHASE 3 GREEN	SPARE	SPARE	SPARE
15	BLUE	WHITE	PHASE 3 YELLOW	SPARE	SPARE	SPARE
16	BLACK	RED	PHASE 4 RED	RED BALL 4A, 4B, 4M1	PHASE 8 RED	RED BALL 8A, 8B, 8M1
17	WHITE	RED	PHASE 4 GREEN	GREEN BALL 4A, 4B, 4M1	PHASE 8 GREEN	GREEN BALL 8A, 8B, 8M1
18	ORANGE	RED	PHASE 4 YELLOW	YELLOW BALL 4A, 4B, 4M1	PHASE 8 YELLOW	YELLOW BALL 8A, 8B, 8M1
19	BLUE	RED	PHASE 4 WALK	PEDESTRAIN WALK P4A, P4B	PHASE 8 WALK	PEDESTRIAN WALK P8A, P8B
20	RED	GREEN	PHASE 4 DON'T WALK	PEDESTRAIN DON'T WALK P4A, P4B	PHASE 8 DON'T WALK	PEDESTRIAN DON'T WALK P8A, P8B

ABBREVIATIONS

DL	DETECTOR LOOP
EC	EXTENDED CALL LOOP
L	DETECTOR LOOP LENGTH
LR	LARGE RECTANGULAR LOOP
W	DETECTOR LOOP WIDTH
S	SAW CUT LOOP TO CURB
T	TERMINAL LOOP
QP	QUADRAPOLE LOOP

QUANTITY ESTIMATING ASSUMPTIONS:

LOOP WIRE

6' X 40' REC LOOP = (6*L) + (6*W) + (2*S) + (2*T) + 5 = 281 + 2(S+T)
6' X 40' QP LOOP = (8*L) + (4*W) + (2*S) + (2*T) + 5 = 349 + 2(S+T)

PAVEMENT SAW CUT

6' X 40' REC LOOP = (2*L) + (2*W) + S = 92 + S
6' X 40' QP LOOP = (3*L) + (2*W) + S = 132 + S

WHERE:

L = DETECTOR LOOP LENGTH (FROM PLAN)
W = DETECTOR LOOP WIDTH (FROM PLAN)
S = SAWCUT LENGTH FROM DETECTOR LOOP TO FACE OF CURB (FROM PLAN)
T = LOOP WIRE TERMINAL LENGTH FROM FACE OF CURB TO PULL BOX (FROM PLAN)

FUNCTION CHART – 24 VOLT CIRCUIT 3/

MULTI CONDUCTOR CABLE 5

CONDUCTOR NUMBER	BASE COLOR	FUNCTION	FIELD CONNECTION
1	BLACK	PHASE 2 PPB	PPB2A & PPB2B
2	WHITE	COMMON	PPB2* THRU PPB8*
3	RED	PHASE 4 PPB	PPB4A & PPB4B
4	GREEN	PHASE 6 PPB	PPB6A, PPB6B
5	ORANGE	PHASE 8 PPB	PPB8A, PPB8B

NOTES:

1/ IDENTIFY CONDUCTORS LISTED AS "115 VOLTS"

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

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

AS BUILT INFORMATION
CONTRACTOR Simard Electrical Services DATE 6-2009
STAKED BY HMCG DATE
INSPECTOR'S ACCEPTANCE BY HMCG DATE 11-2009
FIELD VERIFICATION BY HMCG DATE 11-2010
CORRECTED BY HMCG DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
2005.180.2	JMA	3/14/06

BENCH MARKS
A 60 PENNY NAIL IN THE EAST SIDE OF THE EAST POLE OF PYLON #69/3
CITY OF ALBUQUERQUE BENCH MARK 1-P9(R)
ELEVATION = 5197.181 FEET (NGVD1929)

ENGINEER'S SEAL
JOSEPH GRAEME MEANS NEW MEXICO 13678 REGISTERED PROFESSIONAL ENGINEER
01/14/2009

RECORD DRAWING

NO.	DATE	REMARKS	BY
1	1-2010	Revisions	GM

DESIGN
Designed By G.M. Date 10-2008
Drawn By JLP/BLE Date 10-2008
Checked By G.M. Date 01-2009

HIGH MESA Consulting Group
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2005.180.4 2008.186.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: APS ATRISCO HERITAGE ACADEMY HIGH SCHOOL
DENNIS CHAVEZ BLVD. S.W./118TH STREET S.W. PHASE 1 SIGNALIZATION
FUNCTIONS AND DETECTORS

Design Review Committee: APPROVED MAR 06 2009 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED MAY 12 2009 CITY ENGINEER
Last Design Update: Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 753978 | Zone Map No. P-8 | Sheet 7 Of 8

RECORD DRAWING

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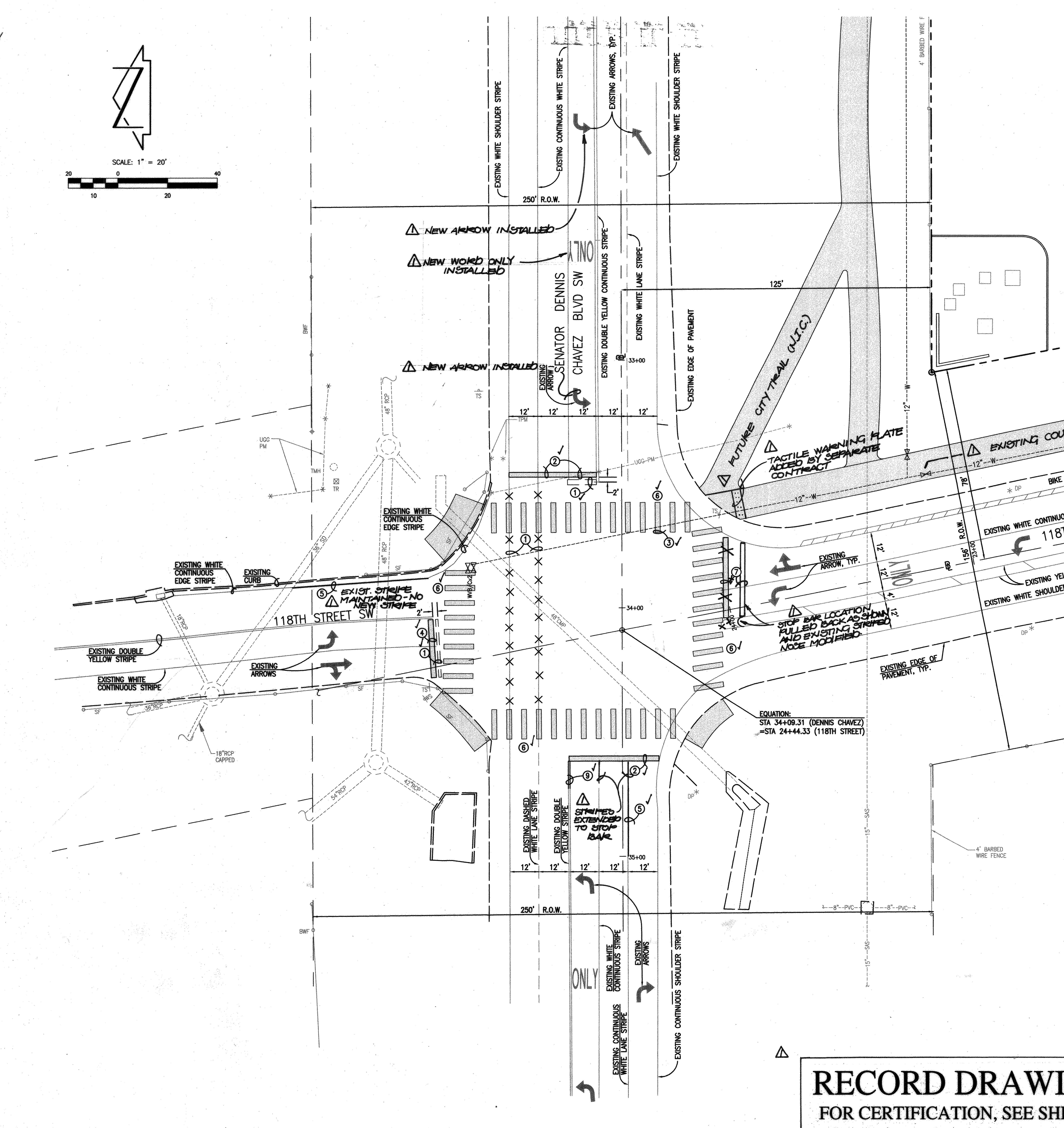
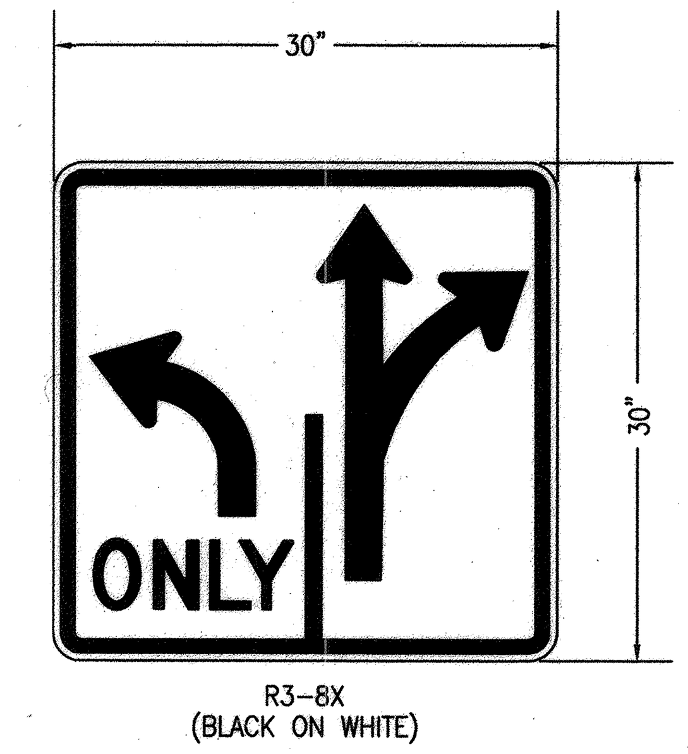
File Name: 51804P7.DWG Plot Time: 09:52 am



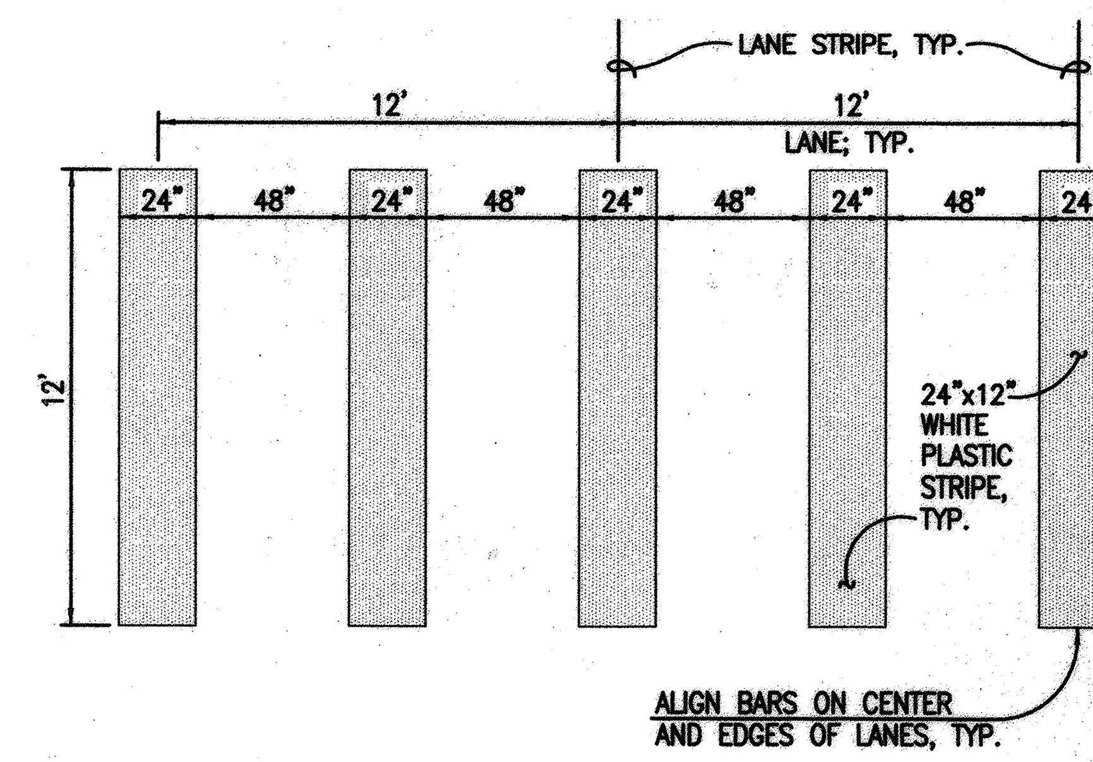


STRIPING AND SIGNAGE NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE REFLECTIVE PLASTIC AND COMPLY WITH CITY SPECIFICATIONS
2. ALL TRAFFIC SIGNS SHALL COMPLY WITH THE M.U.T.C.D. (LATEST EDITION).
3. CONTRACTOR SHALL OBLITERATE ALL EXISTING PAVEMENT MARKINGS WITHIN PROJECT LIMITS PER CITY SPECIFICATIONS AND CONTRACT ITEM PRIOR TO INSTALLATION OF NEW MARKINGS.
4. BROKEN LANE STRIPES SHALL BE TEN FEET IN LENGTH WITH 30 FOOT GAPS.
5. DOTTED LINES SHALL BE THREE FEET IN LENGTH WITH SEVEN FOOT GAPS.
6. CONTRACTOR SHALL APPLY REFLECTORIZED YELLOW PAINT TO ALL MEDIAN NOSES PRIOR TO FINAL ACCEPTANCE OF PROJECT.
7. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL BE INSTALLED PRIOR TO FINAL ACCEPTANCE OF PROJECT.
8. STATIONING SHOWN HEREON IS BASED UPON CONSTRUCTION BASELINE.
9. CONTRACTOR SHALL INVENTORY ALL TRAFFIC CONTROL SIGNS TO BE REMOVED UNDER THIS CONTRACT WITH TRAFFIC OPERATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.
10. CONTRACTOR MUST REVIEW STRIPING AND SIGNAGE LAYOUT WITH CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION.

KEYED NOTES

1. ERADICATE EXISTING STRIPING BY WATER BLASTING OR SURFACE PLANING IN ACCORDANCE WITH SECTION 443 OF THIS SPECIFICATIONS
2. OBLITERATE EXISTING 24" STOP BAR AND INSTALL NEW 24" PLASTIC STOP BAR 2' BEHIND EXISTING LOCATION
3. ~~INSTALL~~ NEW 24"x12' PLASTIC CROSSWALK STRIPES W/4' CLEAR SPACING BETWEEN BARS ALIGNED ON LANES PER DETAIL BELOW
4. OBLITERATE EXISTING 12" PLASTIC STOP BAR AND INSTALL NEW 24" PLASTIC STOP BAR 2' BEHIND EXISTING LOCATION
5. ~~INSTALL~~/EXTEND NEW 4" WHITE PLASTIC CONTINUOUS STRIPE
6. ~~INSTALL~~ ILLUMINATED STREET NAME SIGN ON MASTARM (MASTARMS NOT SHOWN)
7. ~~INSTALL~~ NEW 24" PLASTIC STOP BAR OVER EXISTING 12" STOP BAR (HOT THERMO PLASTIC)
8. STA 21+00 – ~~INSTALL~~ R3–8X SIGN AND POST PER BERNALILLO COUNTY STANDARDS (1 3/4" SQUARE TUBE POST) AND IMAGE HEREON
9. EXTEND EXISTING DOUBLE YELLOW PLASTIC STRIPE



CROSSWALK ALIGNMENT/SPACING DETAIL

SCALE: 1"=5'

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~~2005.180.4~~ 2008.186.6

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: APS ATRISCO HERITAGE ACADEMY HIGH SCHOOL
DENNIS CHAVEZ BLVD. S.W./118TH STREET S.W. PHASE 1 SIGNALIZATION
STRIPING AND SIGNAGE PLAN

Design Review Committee — APPROVED MAR 06 2009 DESIGN REVIEW COMMITTEE
City Engineer Approval — APPROVED MAY 12 2009 CITY ENGINEER

Last Design Update

City Project No.	Zone Map No.	Sheet	Of
753978	P-8	8	8

RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1

AS BUILT INFORMATION	
CONTRACTOR	Simard Electrical Services
WORK STAKED BY	HMCG — DATE 6/2008
INSPECTOR'S ACCEPTANCE BY	HMCG — DATE 1/2009
FIELD VERIFICATION BY	HMCG — DATE 1/2009
DRAWINGS CORRECTED BY	HMCG — DATE 1/2010
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

CONTROL POLE #69/3
A 60 PENNY NAIL IN THE EAST SIDE OF THE EAST POLE OF PYLON
CITY OF ALBUQUERQUE BENCH MARK 1-P9(R)
ELEVATION = 5197.181 FEET (NGVD1929)

SURVEY INFORMATION	FIELD NOTES		
NO.	BY	DATE	
2005.180.2	JMA	3/14/06	

ENGINEER'S SEAL
J. GRAEME MEANS — NEW MEXICO — 13676 — REGISTERED PROFESSIONAL ENGINEER
01/11/2009 02/02/09

NO.	DATE	REMARKS	BY
1	1/2010	RECORD DRAWING & CERT.	G.M.

Revisions

DESIGN		
Designed By	G.M.	Date 10-2008
Drawn By	JLP/BLE	Date 10-2008
Checked By	G.M.	Date 01-2009

Plot Date: 01-27-2009
Plot Time: 1:27 pm
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