# HIGHLAND DETENTION BASIN SYSTEM-PHASE III B

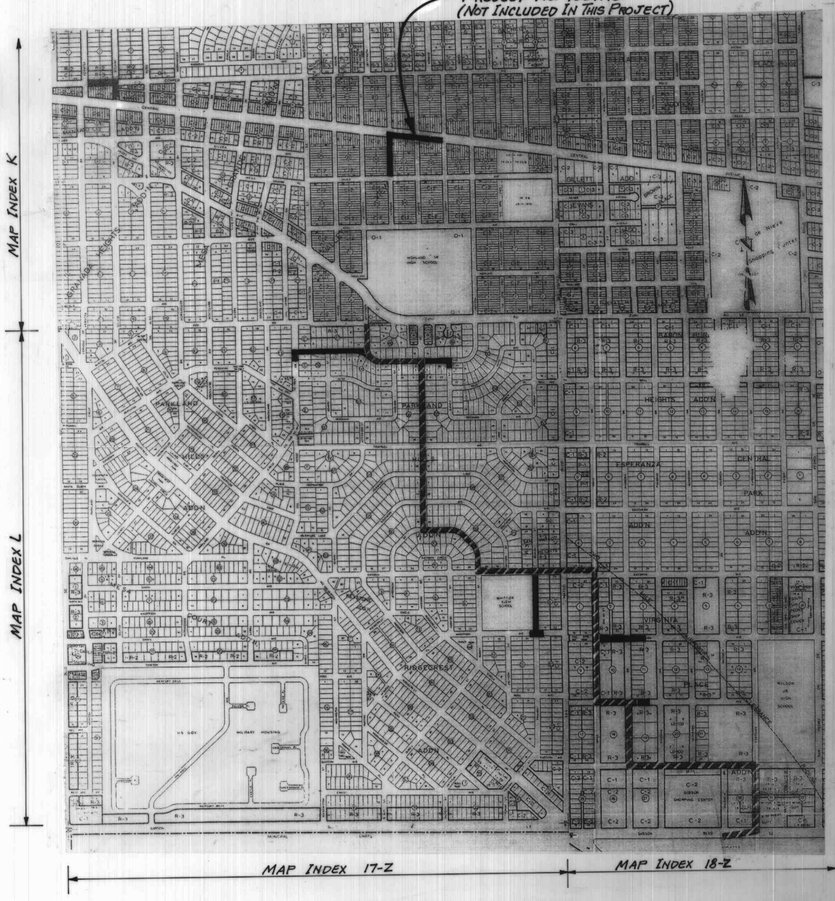
NOVEMBER 2003

## INDEX OF DRAWINGS



NOT INCLUDED IN THIS PROJECT

COMPLETED - SEE COA PROJECT NO. 4324.90 (NOT INCLUDED IN THIS PROJECT)




VICINITY MAP
SCALE: 1" = 800'±

INDICATES PHASE III B
INDICATES PHASE II

## UTILITY COMPANY CONTACTS

DATE LAST EDITED: 7-28-2003

| | | |
|---|---|---|
| CROWEL, DAVID | OFFICE PHONE: (505) 842-2911<br>OFFICE FAX: 842-2890<br>dcrowel@att.com | AT&T<br>RESOURCE SUPERVISOR<br>111 3rd STREET NW<br>ALBUQUERQUE, NM 87103 |
| DARNELL, ANDY | OFFICE PHONE: (505) 346-4470<br>OFFICE FAX: 346-4481<br>andy.darnell@wcom.com | MCI WORLDCOM<br>OPERATIONS MANAGER<br>6001 MIDWAY PARK NE<br>ALBUQUERQUE, NM 87109 |
| ERICKSON, RITA | OFFICE PHONE: (505) 761-6235<br>OFFICE FAX: 761-0599<br>rita_erickson@cable.comcast.com | COMCAST<br>PLANNING AND DESIGN SUPERVISOR<br>4611 MONTBEL PLACE NE<br>ALBUQUERQUE, NM 87107 |
| ROMANOWSKI, JEFF | OFFICE PHONE: (505) 241-7703<br>OFFICE FAX: (505) 241-7753<br>jromano@pnm.com | PNM - GAS CO. OF NM<br>PROJECT ENGINEER<br>4625 EDITH BLVD. NE<br>ALBUQUERQUE, NM 87107 |
| BOUCHARD, MARK | OFFICE PHONE: (505) 241-3402<br>OFFICE FAX: (505) 241-0559<br>mbouchd@pnm.com | PNM - ELECTRIC<br>ENGINEERING REPRESENTATIVE<br>4201 EDITH BLVD. NE/ MS-ES61<br>ALBUQUERQUE, NM 87107 |
| BENJAMIN, STEVE | OFFICE PHONE: (505) 998-2220<br>OFFICE FAX: (505) 988-2200<br>Steve.Benjamin@espire.net | XSPEDIUS MANAGEMENT CO.<br>OPERATIONS SUPPORT MANAGER<br>505 MARQUETTE NW SUITE 1605<br>ALBUQUERQUE, NM 87102 |
| GAY, BOB | OFFICE PHONE: (505) 898-2661<br>OFFICE FAX: (505) 898-6379<br>bobgaynmui@yahoo.com | NEW MEXICO UTILITIES<br>OPERATIONS SUPERINTENDENT<br>4700 IRVING BLVD. NW, SUITE 201<br>ALBUQUERQUE, NM 87114 |
| MUELLER, RICK | OFFICE PHONE: (505) 244-3161<br>OFFICE FAX: 244-0094<br>MOBILE: 228-3329<br>rdmueller@mcleodusa.com | MCLEOD USA<br>SUPERVISOR OF OUTSIDE TECHS.<br>505 MARQUETTE NW (COMPASS BANK)<br>SUITE 1600<br>ALBUQUERQUE, NM 87102 |
| MULLER, DAVID | OFFICE PHONE: (505) 245-8706<br>OFFICE FAX: 245-6831<br>dmuller@uswest.com | QWEST/US WEST<br>CAPACITY PROVISIONING SPECIALIST<br>201 3rd STREET NW (BANK OF ALBUQUERQUE) SUITE 700<br>ALBUQUERQUE, NM 87102 |
| OLSON, GREG | OFFICE PHONE: (505) 768-2719<br>OFFICE FAX: (505) 768-3629<br>goison@cabq.gov | CITY OF ALBUQUERQUE<br>PRINCIPAL ENGINEER, UTILITY DEVELOPMENT P.O. BOX 1293<br>ALBUQUERQUE, NM 87103 |
| HARRISON, ROYAL | OFFICE PHONE: (505) 938-7339<br>OFFICE FAX: (505) 938-7380<br>Royal.Harrison@twtelecom.com | TIME WARNER TELECOM<br>PLANT MANAGER<br>3830 SINGER BLVD. NE SUITE 1000<br>ALBUQUERQUE, NM 87109 |
| KETTERER, JEFF | OFFICE PHONE: (317) 633-5562<br>OFFICE FAX: (317) 633-4824<br>Jeffery.ketterer@genuity.com | GENUITY<br>SUPERVISOR-OSP MAINTENANCE<br>175 NORTH COLLEGE AVE.<br>INDIANAPOLIS, IN 46202 |
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APPROVAL OF RECORD DRAWINGS
~~CHIEF CONSTRUCTION ENGINEER~~ Project Manager
E. Garcia
DATE 4/11/05

**ASCG INCORPORATED**
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RECORD DRAWING
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

| APPROVALS | ENGINEER | DATE |
|---|---|---|
| DRC Chairman | | 11-25-03 |
| Transportation | | 11/17/03 |
| Water/Wastewater | William J. Baloch | 11/18/03 |
| Hydrology | E. Garcia | 11/13/03 |
| Parks & Recreation | | |

ASCG PROJECT NO. 215815
LH PROJECT NO. 1871.41

| REV | SHEETS | CITY ENGINEER | DATE | USER DEPT. | DATE | USER DEPT. | DATE |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

APPROVAL OF REVISIONS

CLINTON DODGE NEW MEXICO 11/18/03

LH
TITLE SHEET, INDEX OF DRAWINGS AND VICINITY MAP
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P.O. Box 1217
Albuquerque, New Mexico 87103
(505) 247-0294

APPROVED FOR CONSTRUCTION
11/25/03
C.E.

PROJECT NO. MDD PROJECT 720391

SHEET 1 OF 21

# (SEE PLANS FOR ITEMS WITHIN THIS PROJECT)

## LEGEND

| PROPOSED | EXISTING | DESCRIPTION |
|---|---|---|
| | | SANITARY SEWER MANHOLE |
| | | STORM DRAIN MANHOLE |
| W | W | WATER MANHOLE |
| TELE MH | TELE MH | TELEPHONE MANHOLE |
| SAS 8"CP | SAS 8"CP | SANITARY SEWER LINE WITH SIZE AND TYPE |
| SD 48"RCP | SD 48"RCP | STORM DRAIN LINE WITH SIZE AND TYPE |
| W 6"CI | W 6"CI | WATER LINE WITH SIZE AND TYPE |
| E | E | OVERHEAD ELECTRICAL LINE |
| UE | UE | UNDERGROUND ELECTRICAL/TRAFFIC CONTROL |
| UT | UT | UNDERGROUND TELEPHONE |
| G 2"HP | G 2"HP | GAS LINE WITH SIZE AND TYPE |
| CT | CT | CABLE TELEVISION LINE |
| | | ENCASEMENT |
| | | CATCH BASIN |
| | | GATE VALVE |
| | | BUTTERFLY VALVE |
| | | FIRE HYDRANT |
| | | REDUCER |
| | | SANITARY SEWER SERVICE CONNECTION |
| | | WATER SERVICE CONNECTION |
| | | TEE |
| | | CROSS |
| | | BEND |
| | | CAP AND PLUG |
| WM | WM | WATER METER |
| WM | WM | DOUBLE WATER METER |
| | VB | VALVE BOX |
| PP | PP | POWER POLE |
| LP | LP | LIGHT POLE |
| | TL | TRAFFIC LIGHT |
| | TC | TRAFFIC CONTROL BOX |
| | PB | PULL BOX |
| TB | TB | TELEPHONE BOOTH |

| PROPOSED | EXISTING | DESCRIPTION |
|---|---|---|
| | | PCC CURB AND GUTTER |
| | | AC CURB |
| 4'SW | 4'SW | SIDEWALK |
| | A | BLOCK WALL |
| | | CHAIN LINK FENCE |
| | | FIELD FENCE |
| 0.83 | 0.83 | SPOT ELEVATION |
| EP | EP | EDGE OF AC PAVEMENT |
| | | RIGHT OF WAY LINES/ PROPERTY LINE |
| | | PUBLIC EASEMENT LINE |
| | | LIGHT POLE BASE |
| | | WHEELCHAIR RAMP |
| | | SWALE |
| 1000 | 1000 | CONTOURS |
| | | SIDE SLOPES |
| | NA | SURVEY POINT |
| | NA | ABANDON IN PLACE |
| | NA | DEMOLISH AND REMOVE |
| | | EARTH (UNDISTURBED) |
| | | COMPACTED BACKFILL |
| | | CONCRETE |
| | N/A | ANTICIPATED LIMITS OF TRENCH PRISM |
| | EXISTING | CONCRETE DRIVEPAD |
| | | TEMPORARY PAVING |
| | N/A | TRANSITION CURB |

## ABBREVIATIONS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AB | ANCHOR BOLT | DWG | DRAWING | MH | MANHOLE | SD | STORM DRAIN |
| AC | ASPHALTIC CONCRETE | E | EAST | MIN | MINIMUM | SF | SQUARE FEET |
| AHD | AHEAD | EA | EACH | MISC | MISCELLANEOUS | SIM | SIMILAR |
| APPROX | APPROXIMATELY | EF | EACH FACE | MO | MASONRY OPENING | SM | SUCTION MANIFOLD |
| BK | BACK | EG | EXISTING GRADE | MOV | MOTOR OPERATED VALVE | SQ | SQUARE |
| BLDG | BUILDING | EJ | EXPANSION JOINT | N | NORTH | STA | STATION |
| BLK | BLOCK | EL | ELEVATION | NIC | NOT IN CONTRACT | STD DWG | STANDARD DRAWING |
| BM | BEAM/BENCH MARK | ELEC | ELECTRICAL | NO | NUMBER | SY | SQUARE YARDS |
| BOP | BOTTOM OF PIPE | EP | EDGE OF PAVEMENT | NTS | NOT TO SCALE | SYM | SYMMETRICAL |
| BOT | BOTTOM | EWC | ELECTRIC WATER COOLER | OD | OUTSIDE DIAMETER | TA | TOP OF ASPHALT |
| BRG | BEARING | EXIST | EXISTING | OPP | OPPOSITE | TAN | TANGENT |
| CATV | CABLE TELEVISION | FD | FLOOR DRAIN | PC | POINT OF CURVE | TC | TOP OF CONCRETE |
| CB | STORM CATCH BASIN/INLET | F-F | FACE-TO-FACE | PED | PEDESTAL | TG | TOP OF GRAVEL |
| CCY | CONCRETE CYLINDER PIPE | FF | FINISH FLOOR | PI | POINT OF INTERSECTION | THC | TOP OF HEADER CURB |
| CFM | CUBIC FEET PER MINUTE | FG | FINISH GRADE | PL/B | PLATE | THK | THICK/THICKNESS |
| CFS | CUBIC FEET PER SECOND | FL | FLOW LINE ELEVATION/FLANGE | POL | POINT ON LINE | TOC | TOP OF CURB |
| CI | CAST IRON | FOC | FACE OF CURB | ROW | RIGHT OF WAY | T.O.P. | TOP OF PIPE |
| CJ | CONSTRUCTION JOINT | FPS | FEET PER SECOND | PRC | POINT REVERSE CURVE | TOS | TOP OF STEEL |
| ℄ or CL | CENTERLINE | FT | FOOT/FEET | PRV | PRESSURE REDUCING VALVE | TOW | TOP OF WALL |
| ℄ CONST | CENTERLINE OF CONSTRUCTION | GA | GAGE | PSF | POUNDS PER SQUARE FOOT | TP | TOP OF PAVEMENT |
| CLG | CEILING | GPM | GALLONS PER MINUTE | PSI | POUNDS PER SQUARE INCH | TYP | TYPICAL |
| CLR | CLEAR | HB | HOSE BIB | PT | POINT OF TANGENT | T&B | TOP AND BOTTOM |
| CMU | CONCRETE MASONRY UNIT | HC | HOLLOW CORE | PVC | POLY VINYL CHLORIDE | TW | TOP OF WALL |
| CO | CLEANOUT | HGL | HYDRAULIC GRADE LINE | Q | FLOW RATE | UE | UNDERGROUND ELECTRICAL |
| COA | CITY OF ALBUQUERQUE | HORIZ | HORIZONTAL | QTY | QUANTITY | V | VELOCITY |
| COL | COLUMN | HP | HIGH PRESSURE | R | RADIUS | VERT | VERTICAL |
| CONC | CONCRETE | IN | INCH | RCP | REINFORCED CONCRETE PIPE | VRT | VENT THROUGH ROOF |
| CONST | CONSTRUCTION | INV | INVERT | ROD | RESERVOIR OVERFLOW DRAIN | W | WEST |
| CP | CONTROL POINT | LB | POUND | RD | ROOF DRAIN | WC | WELL COLLECTOR |
| CY | CUBIC YARDS | LLH | LONG LEG HORIZONTAL | RT | RIGHT | WL | WATER LINE |
| DET | DETAIL | LLV | LONG LEG VERTICAL | S | SOUTH | | |
| DI | DUCTILE IRON | LT | LIGHT/LEFT | SAS | SANITARY SEWER | | |
| DIA | DIAMETER | MAX | MAXIMUM | | | | |
| DM | DISCHARGE MANIFOLD | MFR | MANUFACTURER | | | | |
| DN | DOWN | | | | | | |

## GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION – 1986 EDITION (REFERRED TO HEREAFTER AS THE STANDARD SPECIFICATIONS AS UPDATED THROUGH UPDATE NO. 7) AND THE PROJECT SPECIFICATIONS TITLED "HIGHLAND DETENTION BASIN SYSTEM – PHASE III B".
2. SEVEN (7) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTACT NEW MEXICO ONE-CALL SYSTEM, PH. 260-1990, FOR LOCATION OF EXISTING UTILITIES.
3. PRIOR TO CONSTRUCTION, EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. COORDINATE CONSTRUCTION ACTIVITIES WITH OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA.
5. ALL PERMANENT R.O.W. AND CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE CITY OF ALBUQUERQUE PRIOR TO THE BEGINNING OF CONSTRUCTION. AS APPLICABLE.
6. WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT EXISTING PAVEMENT TO A STRAIGHT LINE, AS REQUIRED, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING.
7. EXERCISE DUE CARE TO AVOID DISTURBING EXISTING UNDERGROUND UTILITIES. COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.
8. SEVEN (7) WORKING DAYS PRIOR TO CONSTRUCTION IN PAVED AREAS, OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING STREET.
9. REPLACE ALL STREET STRIPING ALTERED OR DESTROYED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS TO EXISTING LOCATION OR AS INDICATED BY THIS PLAN SET.
10. NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) CALENDAR DAYS PRIOR TO STARTING WORK SO THAT THE ENGINEER MAY TAKE NECESSARY MEASUREMENTS TO INSURE PRESERVATION OF SURVEY MONUMENTS. DO NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER. NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY SURVEY MONUMENTS THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT WILL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, ADJUST, AT THE CONTRACTOR'S EXPENSE, THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
11. PLACE EXCAVATED MATERIALS AS APPROVED BY THE ENGINEER OR PROJECT ADMINISTRATOR.
12. THE REMOVAL AND REPLACEMENT OF PRIVATE SIGNS AND OBSTRUCTIONS SHALL BE PERFORMED BY THE RESPECTIVE PROPERTY OWNERS UNLESS OTHERWISE NOTED. COORDINATION SHALL BE THE RESPONSIBILITY OF THE ENGINEER.
13. WHERE TRENCHING EXPOSES EXISTING UTILITY LINES, THE CONTRACTOR IS RESPONSIBLE FOR SUPPORTING THE LINE DURING CONSTRUCTION AND ASSURE THAT IT IS BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
14. BACKFILL AND COMPACT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SUPPLEMENTAL TECHNICAL SPECIFICATIONS.
15. ANY AREA NOT PAVED OR LANDSCAPED WHICH IS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED WITH NATIVE GRASS PER CITY OF ABQ "SANDY SOILS" SPECIFICATION. THE COST OF SEEDING SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
16. ALL EXISTING REGULATORY SIGNS THAT NEED TO BE REMOVED, RELOCATED OR REINSTALLED WILL BE PERFORMED BY THE CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT CONSTRUCTION COORDINATOR. NOTIFY THE CITY CONSTRUCTION COORDINATOR THREE (3) WORKING DAYS IN ADVANCE OF ANY REQUIRED WORK.
17. REPLACE ALL TRAFFIC SIGNS REMOVED IN KIND TO ORIGINAL LOCATIONS OR AS INDICATED BY THIS PLAN SET. THE CONTRACTOR SHALL NOTIFY THE CITY CONSTRUCTION COORDINATOR THREE (3) WORKING DAYS IN ADVANCE OF ANY REQUIRED WORK.
18. COORDINATE WITH CITY OF ALBUQUERQUE SEVEN (7) WORKING DAYS PRIOR TO ANY WORK NEEDING THE EXECUTION OF THE WATER VALVE SHUT-OFF AND TO OBTAIN A WATER SHUT-OFF PERMIT.
19. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES, PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, WHEELCHAIR RAMPS, SIDEWALK, GATES FENCING, ANY OTHER IMPROVEMENTS DURING CONSTRUCTION EXCEPT FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS. REPAIR OR REPLACE DAMAGED IMPROVEMENTS PER COA STANDARDS AT CONTRACTOR'S EXPENSE.
20. MAINTAIN A GRAFFITI-FREE WORK SITE. PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
21. PERFORM ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES IN ACCORDANCE WITH OSHA 29CFR1926.650 SUBPART P, OR CURRENT OSHA STANDARD.
22. PRIOR TO THE REMOVAL OF ANY PAVEMENT, CURB AND GUTTER, AND OTHER IMPROVEMENTS, SURVEY TO ENSURE RESTORATION OF PROPER GRADES, CROWN AND ELEVATIONS. REMOVE AND REPLACE SHORT (LESS THAN 6') EXISTING SECTIONS OF PAVEMENT AND CURB AND GUTTER REMAINING AFTER PRIMARY REMOVALS ARE COMPLETED.
23. MINOR ADJUSTMENTS TO HORIZONTAL AND VERTICAL LOCATIONS OF IMPROVEMENTS AND RELATED COMPONENTS IS CONSIDERED INCIDENTAL TO THE WORK.
24. ALL REFERENCE TO CITY STANDARD DRAWINGS WILL BE PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 AS REVISED THROUGH UPDATE NO. 7.
25. PRESSURE MANHOLE COVERS AS SHOWN ON THE PLANS SHALL BE NEENAH R-1916-K OR APPROVED EQUAL (30" CLEAR OPENING) AND ARE CONSIDERED INCIDENTAL TO THE WORK.
26. ALL MANHOLE COVERS, WATER VALVES, OR OTHER SERVICE ACCESS SHALL MATCH EXISTING GRADE OF PAVEMENT. ON UNPAVED SURFACES, THESE SHALL MATCH EXISTING GROUND SURFACES OR FINAL GRADES, WHICHEVER APPLIES.
27. REFERENCES USED IN PREPARATION OF THESE PLANS INCLUDE THE ALBUQUERQUE MASTER DRAINAGE STUDY, BOHANNAN-HUSTON, INC., JANUARY 1981; HIGHLAND DETENTION BASIN STUDY – PRELIMINARY DESIGN ANALYSIS, INCLUDING CALCULATION APPENDIX, LEEDSHILL-HERKENHOFF, INC., MARCH 1984. THESE ARE ON FILE WITH THE CITY OF ALBUQUERQUE.
28. THE HYDRAULIC GRADE LINE SHOWN ON THE PLANS DEPICTS THAT OF THE ULTIMATE SYSTEM.
29. THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS IS AN APPROXIMATION TO SHOW AREAS OF ANTICIPATED PAVEMENT, CURB AND GUTTER AND/OR OTHER SURFACE REMOVAL. THE CONTRACTOR SHALL ENDEAVOR TO MINIMIZE THE ACTUAL CONSTRUCTION LIMITS BUT IN NO CASE SHALL SUCH LIMITS OF WORK RESTRICT THE CONTRACTORS WORK WHERE SAFETY WOULD BE IMPAIRED.
30. ALL REFERENCE TO CURB AND GUTTER IS TO STANDARD CURB AND GUTTER UNLESS OTHERWISE NOTED.
31. DRIVEPADS THAT ARE IN AN AREA OF RECONSTRUCTION THAT ARE BLOCKED OR NOT BEING USED SHALL BE RECONSTRUCTED AS STANDARD CURB AND GUTTER.
32. REPLACE ALL REMOVED PAVING, CURB & GUTTER, DRIVEPADS, SIDEWALK, WATER METERS, WATER SERVICES, SEWER SERVICES AND OTHER CITY OWNED INFRASTRUCTURE IN KIND IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS INCLUDING:
    - SIDEWALK WORK – COA STD. DWG. 2430, 2431, 2432
    - CURB & GUTTER WORK – COA STD. DWG. 2415A, 2415B
    - CURB ACCESS RAMPS (WHEELCHAIR) – COA STD. DWG. 2440 & 2441
    - DRIVEPADS & ALLEY INTERSECTIONS – COA STD. DWG. 2425, 2426, 2428
    - CATCH BASINS & STORM INLETS – COA STD. DWG. 2201, 2202, 2205, 2207, 2215, 2216, 2220, 2221
    - WATERLINES & APPURTENANCES – COA STD. DWG. 2460, 2301, 2315, 2320, 2326, 2328, 2333
    - WATER SERVICE & METER – COA STD. DWG. 2361, 2362, 2363, 2366, 2367, 2368, 2369
    - FIRE HYDRANT – COA STD. DWG. 2340, 2344, 2347
    - VALLEY GUTTERS – COA STD. DWG. 2420, 2421, 2422
    - MANHOLES – COA STD. DWG. 2101, 2102, 2107, 2110, 2111, 2116, 2460
    - SEWER SERVICE LINES – COA STD. DWG. 2118, 2125, 2134, 2135, 2136
    - PAVING – SEE GENERAL NOTES 33 AND 34.
33. MAJOR LOCAL STREET (RESIDENTIAL) PAVEMENT REPLACEMENT: ALL PAVEMENT REPLACEMENT IS DESIGNATED MAJOR LOCAL STREET (RESIDENTIAL) PAVING EXCEPT CENTRAL AVENUE. ALL PAVEMENT CUTS SHALL BE EITHER PERPENDICULAR TO OR PARALLEL TO TRAFFIC FLOW (NO DIAGONAL CUTS). SUBGRADE MATERIAL SHALL HAVE AN R-VALUE OF 50 OR GREATER. IN THE EVENT SUBGRADE MATERIAL WITH R-VALUE LESS THAN 50 IS ENCOUNTERED, REMOVE AND REPLACE AS DIRECTED BY THE CITY PROJECT MANAGER. RESIDENTIAL PAVEMENT SECTION SHALL CONSIST OF 12" SUBGRADE PREP, 2" AC BASE COURSE, 2" AC SURFACE COURSE. REPLACE ALL REMOVED PAVEMENT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND AS FOLLOWS:
    - PAVEMENT CUT WIDER THAN 8': MACHINE LAYDOWN REQUIRED – PAVEMENT SECTION SHALL CONSIST OF 12" SUBGRADE PREP, 2" AC BASE COURSE, 2" AC SURFACE COURSE – COA STD. DWG. 2400, 2405B, 2465.
    - PAVEMENT CUT LESS THAN 8' WIDE: PAVEMENT SECTION SHALL CONSIST OF 12" SUBGRADE PREP, 4" AC BASE COURSE, 2" AC SURFACE COURSE–COA STD. DWG. 2400, 2405B, 2465.
34. ARTERIAL PAVEMENT REPLACEMENT IN CENTRAL AVENUE: ALL PAVEMENT CUTS SHALL BE EITHER PERPENDICULAR TO OR PARALLEL TO TRAFFIC FLOW (NO DIAGONAL CUTS). THE UPPER 24" OF SUBGRADE MATERIAL SHALL HAVE AN R-VALUE OF 50 OR GREATER. IN THE EVENT SUBGRADE MATERIAL WITH R-VALUE LESS THAN 50 IS ENCOUNTERED, REMOVE AND REPLACE AS DIRECTED BY THE CITY PROJECT MANAGER. REPLACE ALL REMOVED ARTERIAL PAVEMENT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND AS FOLLOWS:
    - PAVEMENT CUT WIDER THAN 8': MACHINE LAYDOWN REQUIRED – MATCH EXISTING PAVEMENT SECTION PLUS 2" ADDITIONAL BASE COURSE AND 2" ADDITIONAL SURFACE COURSE – COA STD. DWG. 2400, 2465.
    - PAVEMENT CUT LESS THAN 8' WIDE: MATCH EXISTING PAVEMENT SECTION PLUS 2" ADDITIONAL SURFACE COURSE–COA STD. DWG. 2400, 2465.
35. THE CONTRACTOR WILL ESTABLISH, MAINTAIN AND REMOVE AN AREA FOR CONTRACTOR'S YARD FOR STORAGE OF EQUIPMENT AND MATERIALS, FOR EQUIPMENT FUELING AND FOR CLEAN-OUT OF CONCRETE TRUCKS, ASPHALT TRUCKS ETC. PROVIDE A TEMPORARY CONTAINMENT BERM AROUND THE SITE. DO NOT ALLOW DISCHARGE OF STORM WATER RUNOFF FROM THE CONTRACTOR'S YARD. REMOVE AND PROPERLY DISPOSE OF ALL CONTRUCTION DEBRIS FROM CONTRACTOR'S YARD PRIOR TO THE END OF THE PROJECT. THE COST OF THE CONTRACTOR'S YARD SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
36. CENTRAL AVENUE NOTES:
    THE STORM DRAIN LINE IN CENTRAL AVENUE SHALL BE DONE IN FOUR PHASES (SEE SHEET 21 FOR DEFINITION OF THE PHASES). TWO WEEKS PRIOR TO THE START OF PHASE ONE, THE CONTRACTOR SHALL ORGANIZE AND HOLD A MEETING WITH ALL BUSINESSES IN THE AREA. AT THIS TIME, THE CONTRACTOR SHALL OUTLINE HOW ACCESS IS TO BE MAINTAINED TO THERI BUSINESS DURING CONSTRUCTION. THIS MEETING SHALL BE COORDINATED THROUGH THE PROJECT ENGINEER AND TRAFFIC ENGINEERING.
37. CONSTRUCTION SECTOR PLAN:
    CONSTRUCTION ACTIVITIES ARE LIMITED TO RESTRICTED AREAS DESCRIBED AS THE CONSTRUCTION SECTOR PLAN IN THE SPECIAL PROVISIONS OF THE CONTRACT DOCUMENTS.
38. UTILITY PLAN:
    A UTILITY PLAN SHALL BE PREPARED AND IMPLEMENTED BY THE CONTRACTOR FOR THE CENTRAL AVENUE BYPASS CONSTRUCTION AND FOR VALVERDE DIVERSION CONSTRUCTION.
39. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
40. WATER AND SEWER SERVICE REPLACEMENTS SHALL CONFORM TO UPDATE NO. 7 OF THE STANDARD SPECIFICATIONS. UTILIZE ONLY BALL VALVES AND COPPER TUBING FOR WATER SERVICE REPLACEMENTS.

**RECORD DRAWING**
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.


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AS BUILT INFORMATION
CONTRACTOR J.R. Hale 12/03
WORK STAKED BY J.R. Hale 12/03
INSPECTOR'S ACCEPTANCE BY ASCG, C. Cook 2/05
FIELD VERIFICATION BY ASCG, C. Cook 2/05
DRAWINGS CORRECTED BY ASCG 2/05
MICRO-FILM INFORMATION
RECORDED BY DATE
M(CAD) C. Caruso

BENCH MARKS
ACS BM 9-L17
A SQUARE CHISELED IN TOP OF CONCRETE CURB AT THE ESE RETURN OF THE INTERSECTION OF BURTON AVE. SE AND ADAMS ST. SE – ELEV=5248.17

SURVEY INFORMATION
FIELD NOTES
NO. DATE

ENGINEER'S SEAL
NEW MEXICO 6410 REGISTERED PROFESSIONAL ENGINEER

| NO. | DATE | REMARKS |
|---|---|---|
| | | REVISIONS |
| | | DESIGN |

DESIGNED BY CD DATE 08/03
DRAWN BY CAB DATE 09/03
CHECKED BY CD DATE 09/03

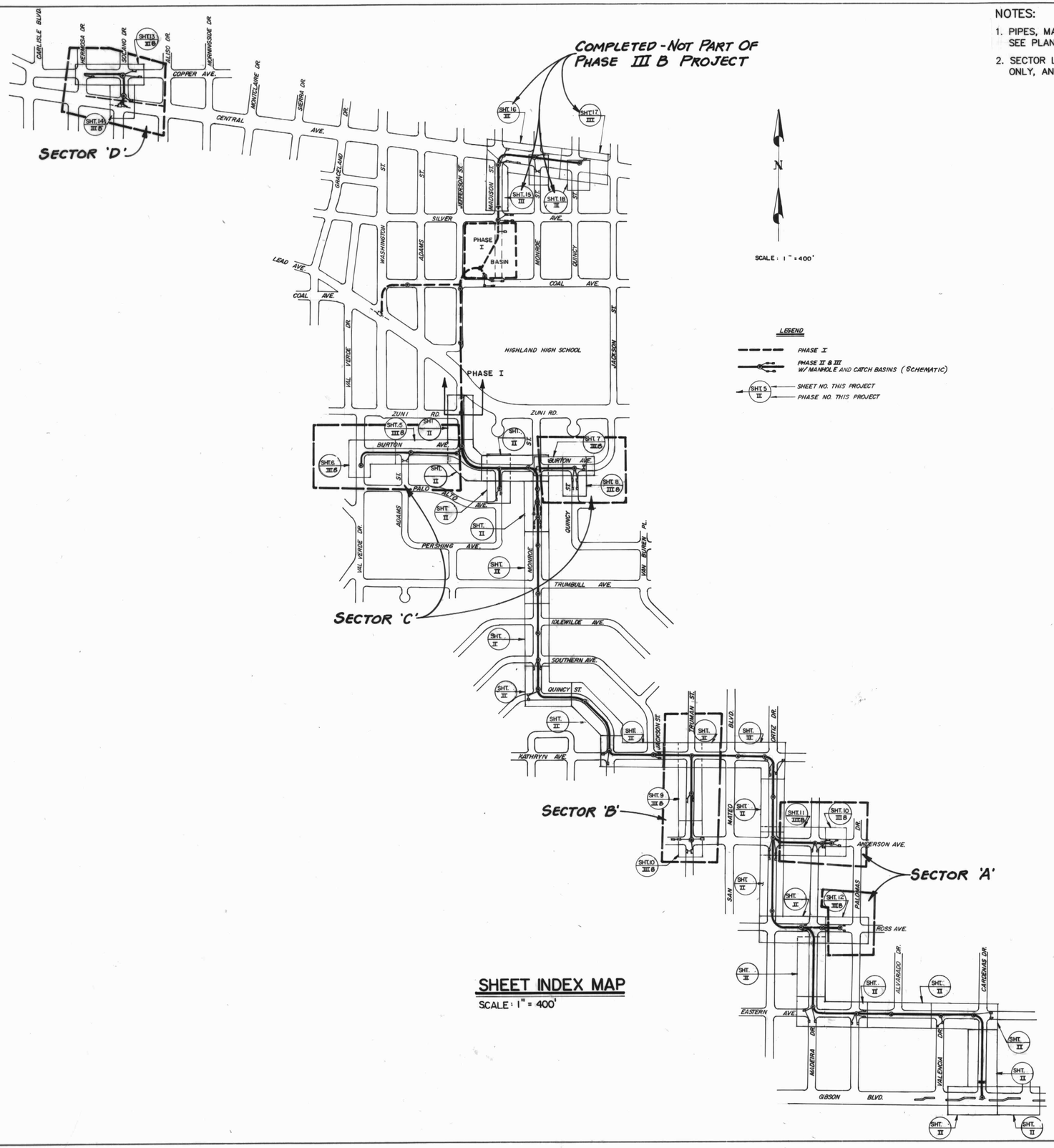
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
HYDROLOGY DIVISION

TITLE: **HIGHLAND DETENTION BASIN SYSTEM PHASE IIIB GENERAL NOTES, ABBREVIATIONS AND LEGEND**

Design Review Committee: APPROVED NOV 25 2003 DESIGN REVIEW COMMITTEE
City Engineer Approval: APPROVED NOV 25 2003 CITY ENGINEER
Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 720391 | Zone Map No. I-17 | Sheet 2 Of 21

AF 22440A




## SHEET INDEX MAP

SCALE: 1" = 400'

NOTES:

1. PIPES, MANHOLES AND CATCH BASINS SHOWN ARE SCHEMATIC. SEE PLANS FOR EXACT LOCATIONS.
2. SECTOR LOCATIONS ARE FOR GENERAL IDENTIFICATION PURPOSES ONLY, AND DO NOT DELINEATE LIMITS OF CONSTRUCTION.

RECORD DRAWING

Date FEB. 10, 2005

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

AS BUILT INFORMATION

CONTRACTOR J.R. Hale

WORK STAKED BY J.R. Hale DATE 12/03

INSPECTOR'S ACCEPTANCE BY ASCG - Cordova 2/05

FIELD VERIFICATION BY ASCG - Cordova 2/05

DRAWINGS CORRECTED BY ASCG DATE 2/05

MICRO-FILM INFORMATION

RECORDED BY DATE

(CA) C. Carrus

BENCH MARKS

See Sheet 2 for Bench Mark Datum

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

STATE OF NEW MEXICO PROFESSIONAL ENGINEER

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

DESIGN

DESIGNED BY JAE, CD, SUB DATE Dec. 1984

DRAWN BY KCW DATE Dec. 1984

CHECKED BY CD DATE Dec. 1984

ASCG INCORPORATED

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

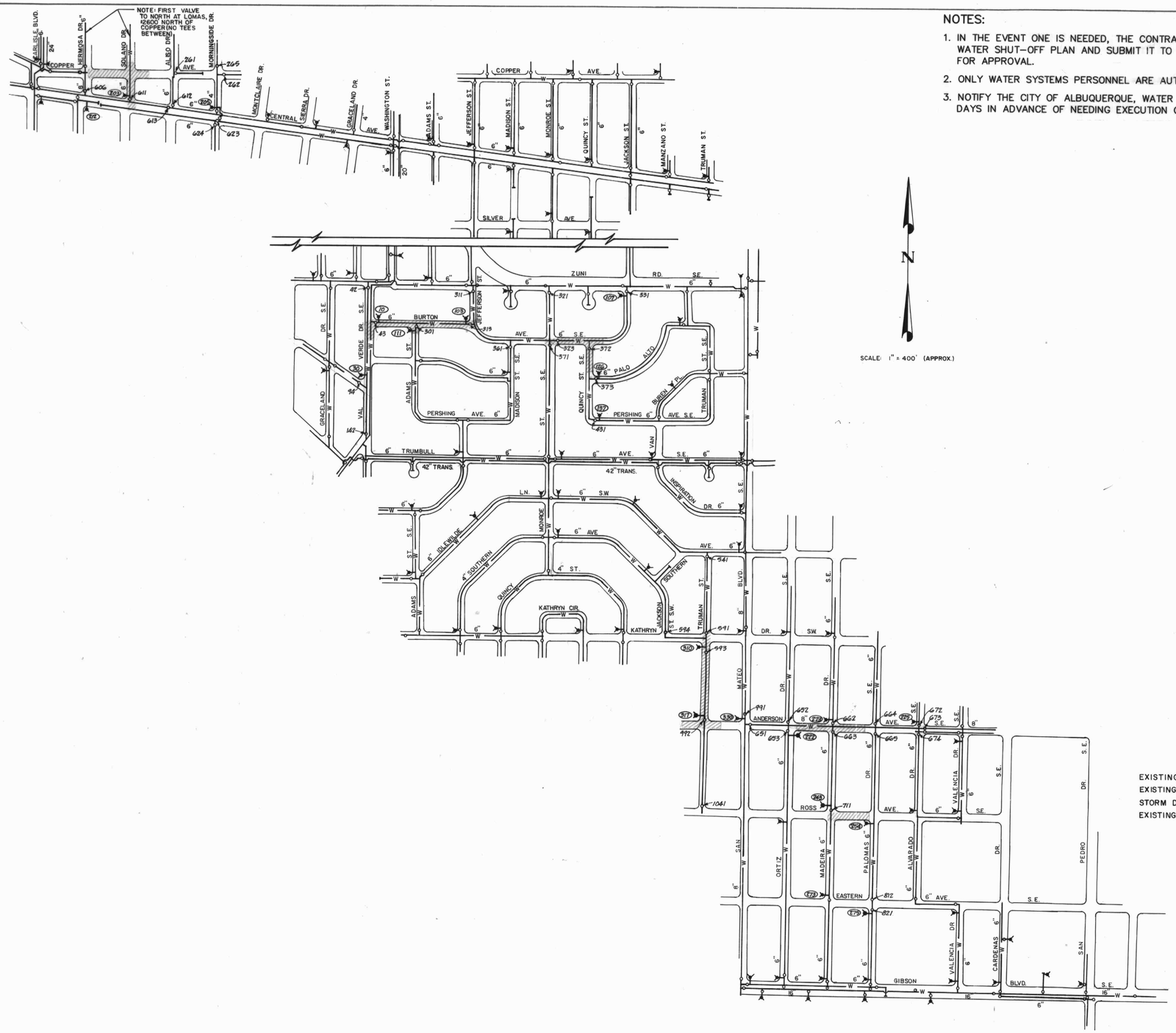
TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE III B

SHEET INDEX MAP

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | | | Liquid Waste | | |
| A.C.E.- Design | | NOV 25 2003 | Traffic | | NOV 25 2003 |
| A.C.E.-Hydrology | | | Water | | |
| | DESIGN REVIEW COMMITTEE | | | CITY ENGINEER | |

| DRAWING NO. | MAP NO. | SHEET | OF |
|---|---|---|---|
| 720391 | L-17 | 3 | 21 |

AF 22440A




SCALE: 1" = 400' (APPROX.)

## NOTES:

1. IN THE EVENT ONE IS NEEDED, THE CONTRACTOR SHALL DEVELOP A WATER SHUT-OFF PLAN AND SUBMIT IT TO THE CITY OF ALBUQUERQUE FOR APPROVAL.
2. ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
3. NOTIFY THE CITY OF ALBUQUERQUE, WATER SYSTEMS SEVEN (7) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF THE WATER SHUT-OFF PLAN.

## LEGEND

| | |
|---|---|
| EXISTING WATER LINES. | —W— |
| EXISTING WATER VALVES. | —o— |
| STORM DRAIN THIS PROJECT | ▨ |
| EXISTING FIRE HYDRANTS | Y |

**RECORD DRAWING**

Date FEB. 10, 2005

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

SURVEY INFORMATION

| NO. | BY | DATE |
|---|---|---|
| | FIELD NOTES | |

BENCH MARKS

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. | | |

ENGINEER'S SEAL

CLIFTON JUDGE — PROFESSIONAL ENGINEER

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

DESIGNED BY — DATE 7-85
DRAWN BY — DATE 7-85
CHECKED BY — DATE 7-85

ASCG INCORPORATED

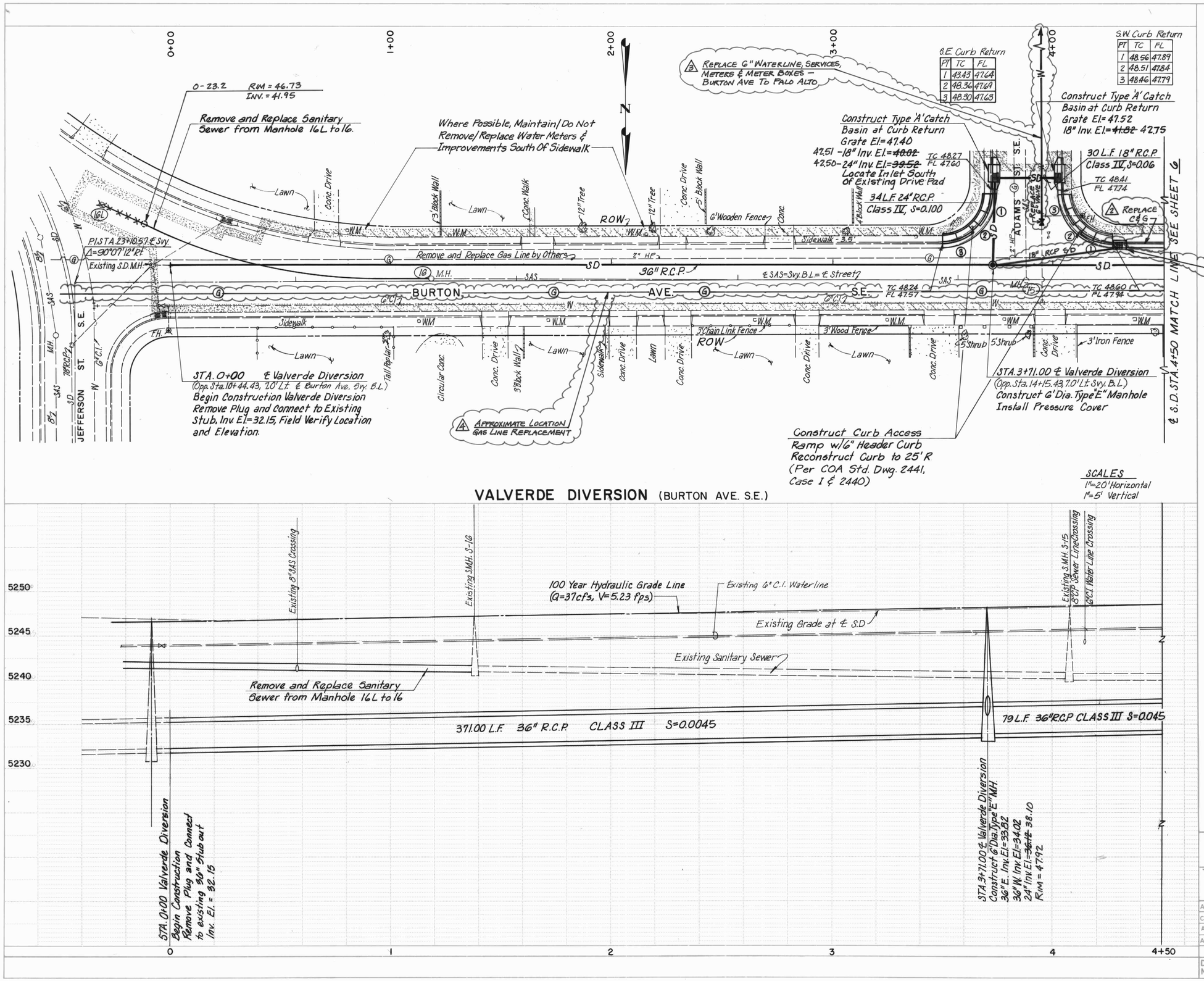
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE IIB
WATER VALVE LOCATION PLAN

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | | | Liquid Waste | | |
| A.C.E.-Design | | NOV 25 2003 | Traffic | | NOV 25 2003 |
| A.C.E.-Hydrology | | | Water | | |

DESIGN REVIEW COMMITTEE — CITY ENGINEER

| DRAWING NO. | MAP NO. | SHEET | OF |
|---|---|---|---|
| 720391 | K-17 | 4 | 21 |




## VALVERDE DIVERSION (BURTON AVE. S.E.)




### EXISTING MANHOLE DATA

Existing Sanitary Sewer Manhole

L-17N-16
Sta. 11+61.℄ Svy.
Rim El=47.30
E. Inv. El=41.60
W. Inv. El=41.04

L-17N-15
Sta. 14+30.80 ℄ Svy.
Rim El=47.94
S. Inv. El=40.51
W. Inv. El=40.31
E. Inv. El=40.36

L-17-16L
Existing Lamp pole Not Found in Field.

**NOTE:**

1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTED BY
ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
RECORDED BY
NO.
DATE

BENCH MARKS
See Sheet 2 for Bench Mark Datum

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

RECORD DRAWING
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| 4 | 2/10/05 | Replace Gas Line | |
| 3 | 2/10/05 | Replace Waterline | |
| 2 | 2/10/05 | Replace Curb & Gutter | |
| 1 | 2/10/05 | Add Type "A" Inlet & 18" RCP SD | |

REVISIONS

DESIGN
DESIGNED BY SUB, JAE DATE Nov. 1985
DRAWN BY JLB DATE Nov. 1985
CHECKED BY OD DATE Nov. 1985

ASCG INCORPORATED

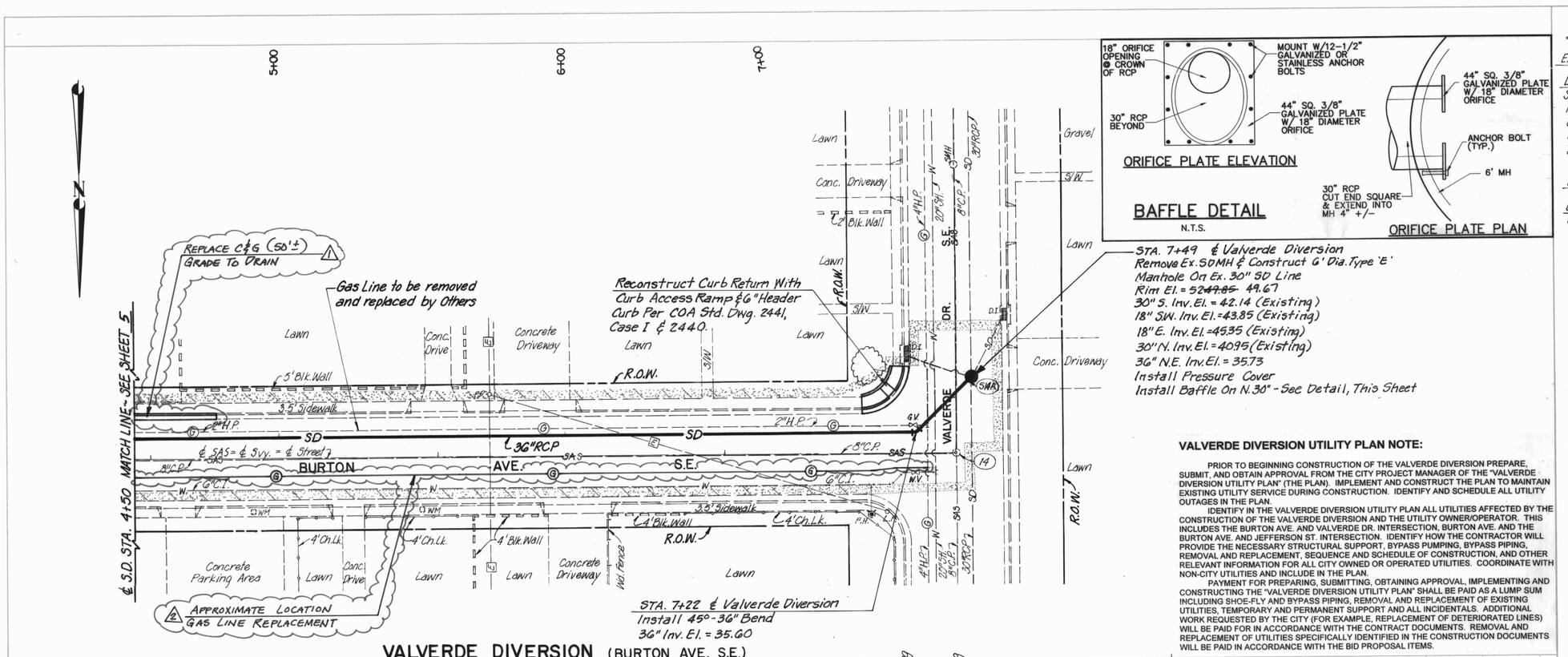
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM PHASE III B
STORM DRAIN PLAN AND PROFILE
VALVERDE DIVERSION
(STA. 0+00 to STA. 4+50)

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | | | Liquid Waste | | |
| A.C.E.-Design | | | Traffic | | |
| A.C.E.-Hydrology | | | Water | | |

DESIGN REVIEW COMMITTEE — NOV 25 2003 — CITY ENGINEER

DRAWING NO. 720391 MAP NO. L-17N SHEET 5 OF 21




## VALVERDE DIVERSION (BURTON AVE. S.E.)




### EXISTING MANHOLE DATA

**Existing Sanitary Sewer Manhole**

L-17N-14
Sta. 17+80.8 ℄ Svy.
N. Rim El. = 5249.30
8" N. Inv. El. = 39.19
8" S. Inv. El. = 39.22
8" E. Inv. El. = 39.06

**Existing Storm Drain Manhole**

L-17N-S14A
Sta. 18+07, 5.4' Rt. ℄ Svy.
N. Rim El. = 5249.85
30" N. Inv. El. = 40.95
30" S. Inv. El. = 41.40
18" S.W. Inv. El. = 43.85
18" E. Inv. El. = 45.35

### NOTE:

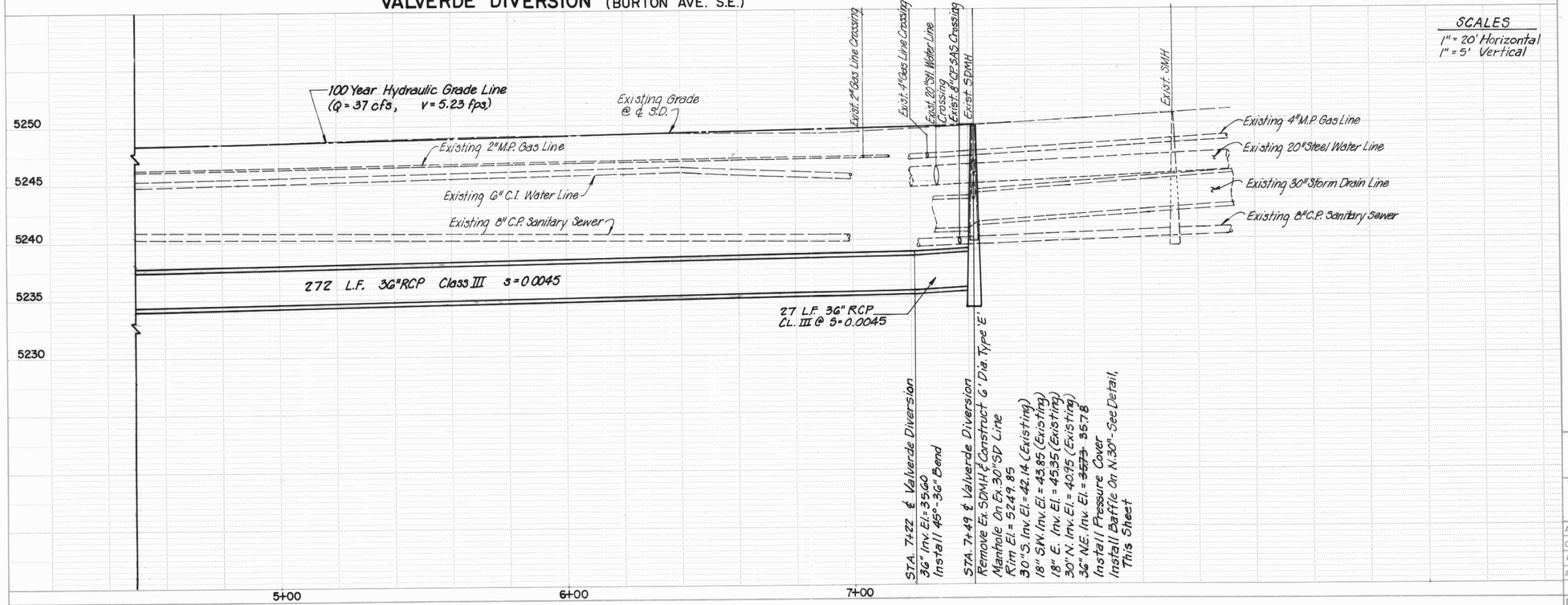
1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

### VALVERDE DIVERSION UTILITY PLAN NOTE:

PRIOR TO BEGINNING CONSTRUCTION OF THE VALVERDE DIVERSION PREPARE, SUBMIT, AND OBTAIN APPROVAL FROM THE CITY PROJECT MANAGER OF THE "VALVERDE DIVERSION UTILITY PLAN" (THE PLAN). IMPLEMENT AND CONSTRUCT THE PLAN TO MAINTAIN EXISTING UTILITY SERVICE DURING CONSTRUCTION. IDENTIFY AND SCHEDULE ALL UTILITY OUTAGES IN THE PLAN.

IDENTIFY IN THE VALVERDE DIVERSION UTILITY PLAN ALL UTILITIES AFFECTED BY THE CONSTRUCTION OF THE VALVERDE DIVERSION AND THE UTILITY OWNER/OPERATOR. THIS INCLUDES THE BURTON AVE. AND VALVERDE DR. INTERSECTION, BURTON AVE. AND THE BURTON AVE. AND JEFFERSON ST. INTERSECTION. IDENTIFY HOW THE CONTRACTOR WILL PROVIDE THE NECESSARY STRUCTURAL SUPPORT, BYPASS PUMPING, BYPASS PIPING, REMOVAL AND REPLACEMENT, SEQUENCE AND SCHEDULE OF CONSTRUCTION, AND OTHER RELEVANT INFORMATION FOR ALL CITY OWNED OR OPERATED UTILITIES. COORDINATE WITH NON-CITY UTILITIES AND INCLUDE IN THE PLAN.

PAYMENT FOR PREPARING, SUBMITTING, OBTAINING APPROVAL, IMPLEMENTING AND CONSTRUCTING THE "VALVERDE DIVERSION UTILITY PLAN" SHALL BE PAID AS A LUMP SUM INCLUDING SHOE-FLY AND BYPASS PIPING, REMOVAL AND REPLACEMENT OF EXISTING UTILITIES, TEMPORARY AND PERMANENT SUPPORT AND ALL INCIDENTALS. ADDITIONAL WORK REQUESTED BY THE CITY (FOR EXAMPLE, REPLACEMENT OF DETERIORATED LINES) WILL BE PAID FOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REMOVAL AND REPLACEMENT OF UTILITIES SPECIFICALLY IDENTIFIED IN THE CONSTRUCTION DOCUMENTS WILL BE PAID IN ACCORDANCE WITH THE BID PROPOSAL ITEMS.




**RECORD DRAWING**
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

ASCG INCORPORATED

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| 2 | 2/10/05 | REPLACE GAS LINE | |
| 1 | 2/10/05 | REPLACE CURB & GUTTER | |

REVISIONS

| DESIGN | DATE |
|---|---|
| DESIGNED BY SUB JAE | Sept. 1985 |
| DRAWN BY PAP | Sept. 1985 |
| CHECKED BY CD | Nov. 1985 |

AS BUILT INFORMATION: CONTRACTOR; WORK STAKED BY; INSPECTORS; ACCEPTANCE BY; FIELD BOOK; FIELD LOCATION BY; DRAWINGS CORRECTED BY — DATE; MICRO-FILM INFORMATION: RECORDED BY; NO. — DATE

BENCH MARKS: See Sheet 2 for Bench Mark Datum.

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

ENGINEER'S SEAL

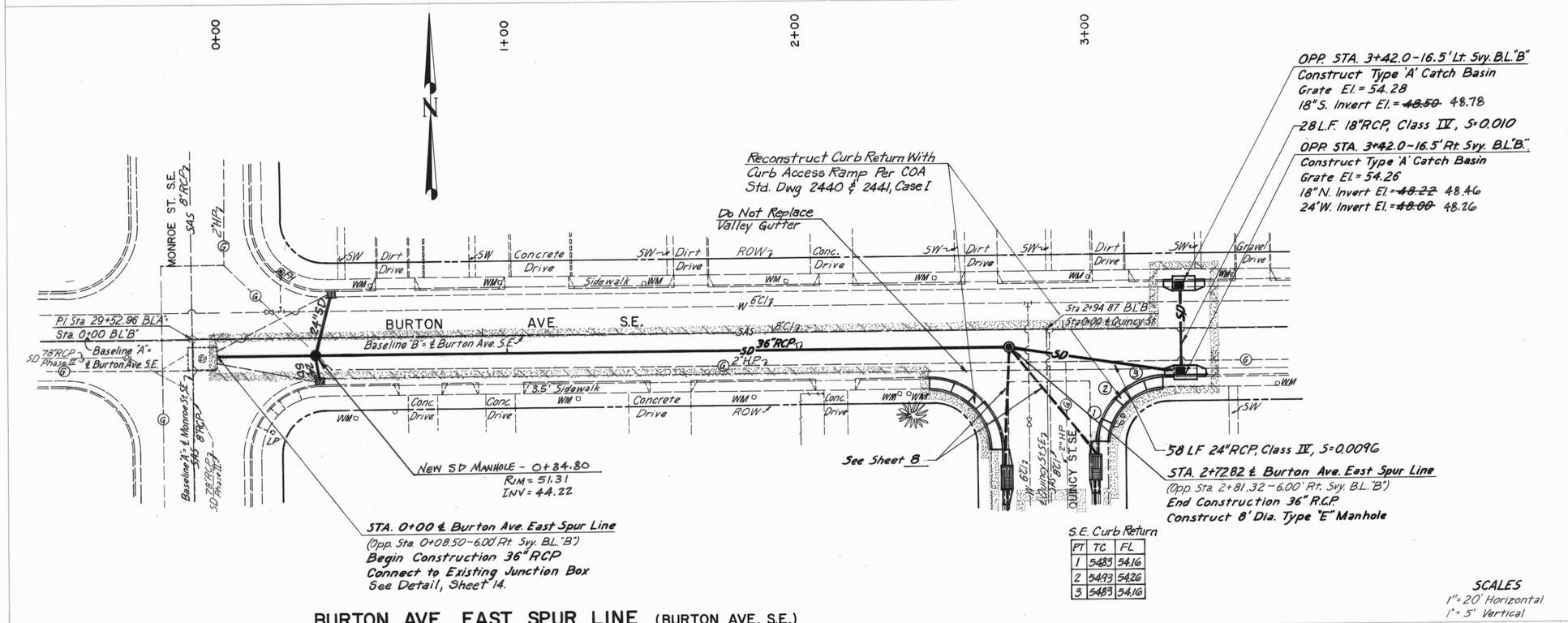
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE III B
STORM DRAIN PLAN AND PROFILE
VALVERDE DIVERSION
(STA. 4+50 to STA. 7+72.60)

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | | | Liquid Waste | | |
| A.C.E.- Design | | | Traffic | | |
| A.C.E.-Hydrology | | | Water | | |

NOV 25 2003 — DESIGN REVIEW COMMITTEE; NOV 25 2003 — CITY ENGINEER

| DRAWING NO. | MAP NO. | SHEET | OF |
|---|---|---|---|
| 720391 | L-17N | 6 | 21 |

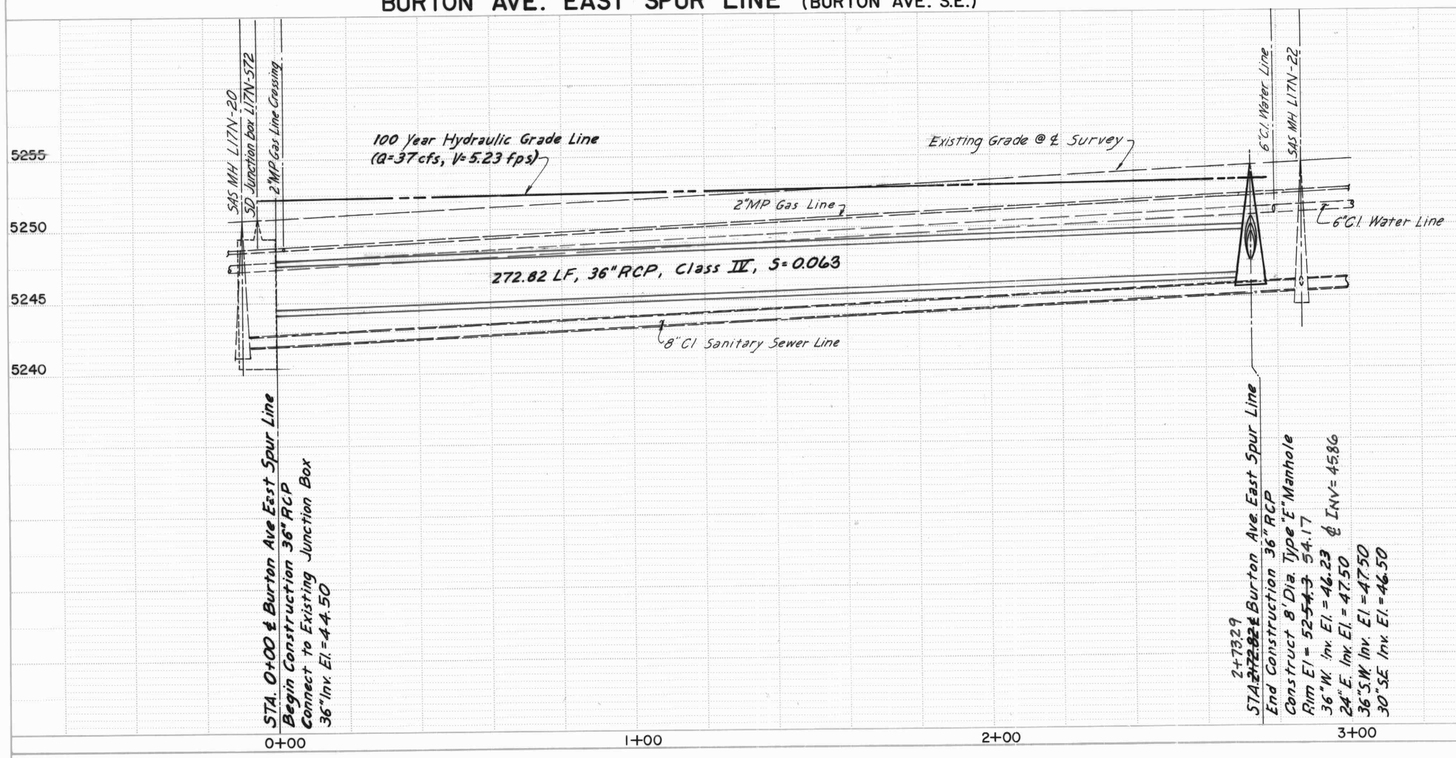



S.E. Curb Return

| PT | TC | FL |
|---|---|---|
| 1 | 54.83 | 54.16 |
| 2 | 54.93 | 54.26 |
| 3 | 54.83 | 54.16 |

SCALES
1" = 20' Horizontal
1" = 5' Vertical

## BURTON AVE. EAST SPUR LINE (BURTON AVE. S.E.)




## EXISTING MANHOLE DATA

### Existing Sanitary Sewer Manholes

L-17N-20 - 4' Dia.
Sta. 29+52.96 BL"A"
N. Rim El. = 51.03
8" E. Inv. El. = 41.95
8" S. Inv. El. = 41.93
8" N. Inv. El. = 41.85
8" W Inv. El. = 42.00

L-17N-22 - 4' Dia.
Sta. 2+95.80, 0.2' Rt ℄ Svy. BL"B"
N. Rim El. = 54.45
8" E. Inv. El. = 45.50
8" W Inv. El. = 45.45
8" S. Inv. El. = 45.63

### Existing Storm Drain Junction Box

L-17N-572 - 8'x10' Box
Sta. 29+59.30, 35' Lt ℄ Svy BL"A"
N. Rim El. = 51.10
℄ Inv. El. = 40.68 (54" S & 60" W)
15" N.W. Inv. El. = 44.43
15" N.E. Inv. El. = 44.52
15" S.E. Inv. El. = 44.52
18" S.W. Inv. El. = 44.10
36" E Inv. El. = 44.50 (New)

**NOTE:**

1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTORS ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE

MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS
See Sheet 2 for Bench Mark Datum.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

DESIGN
DESIGNED BY SUB, JAE DATE Sept. 1985
DRAWN BY KHK DATE Sept. 1985
CHECKED BY CD DATE Nov. 1985

RECORD DRAWING
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

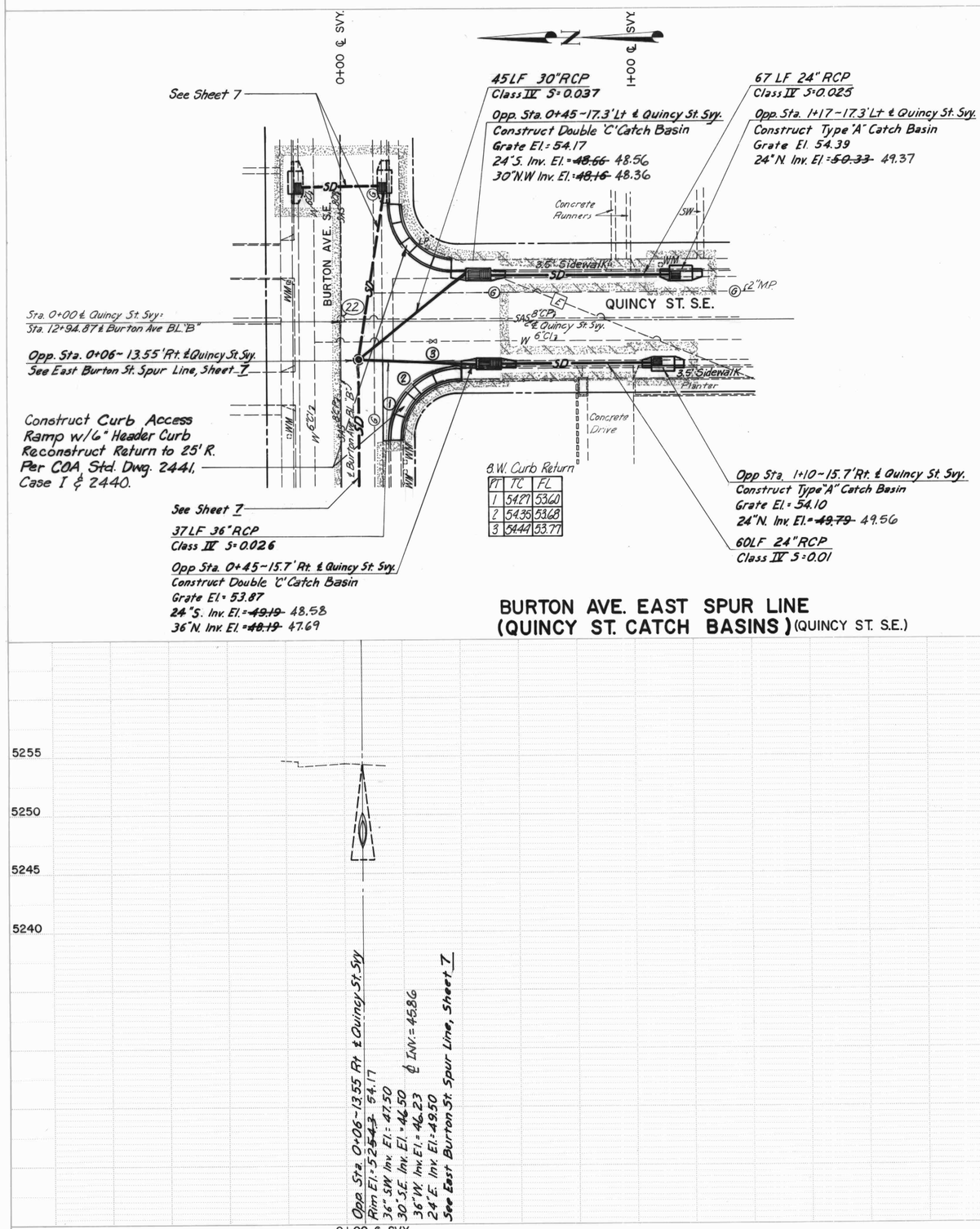
ASCG INCORPORATED

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM PHASE IIB
STORM DRAIN PLAN AND PROFILE
BURTON AVE. EAST SPUR LINE
(STA. 0+00 to STA. 2+72.82)

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | | | Liquid Waste | | |
| A.C.E.-Design | | NOV 25 2003 | Traffic | | NOV 25 2003 |
| A.C.E.-Hydrology | | | Water | | |
| | DESIGN REVIEW COMMITTEE | | | CITY ENGINEER | |

| DRAWING NO. | MAP NO. | SHEET | OF |
|---|---|---|---|
| 720391 | L-17N | 7 | 21 |




| PT | TC | FL |
|---|---|---|
| 1 | 54.27 | 53.60 |
| 2 | 54.35 | 53.68 |
| 3 | 54.44 | 53.77 |

## BURTON AVE. EAST SPUR LINE (QUINCY ST. CATCH BASINS) (QUINCY ST. S.E.)

**SCALES**
1"=20' Horizontal
1"=5' Vertical




### EXISTING MANHOLE DATA

Existing Sanitary Sewer Manhole
L-17N-22-4' Dia
Sta. 2+95.80, 0.2' Rt. ℄ Svy BL"B"
N. Rim El.= 54.45
8" E. Inv. El.= 45.50
8" W. Inv. El.= 45.45
8" S. Inv. El.= 45.63

**NOTE:**

1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
See Sheet 2 for Bench Mark Data

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

DESIGN
DESIGNED BY JAE, SUB — DATE Sept. 1985
DRAWN BY RHK — DATE Sept. 1985
CHECKED BY CD — DATE Nov. 1985

**RECORD DRAWING**
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

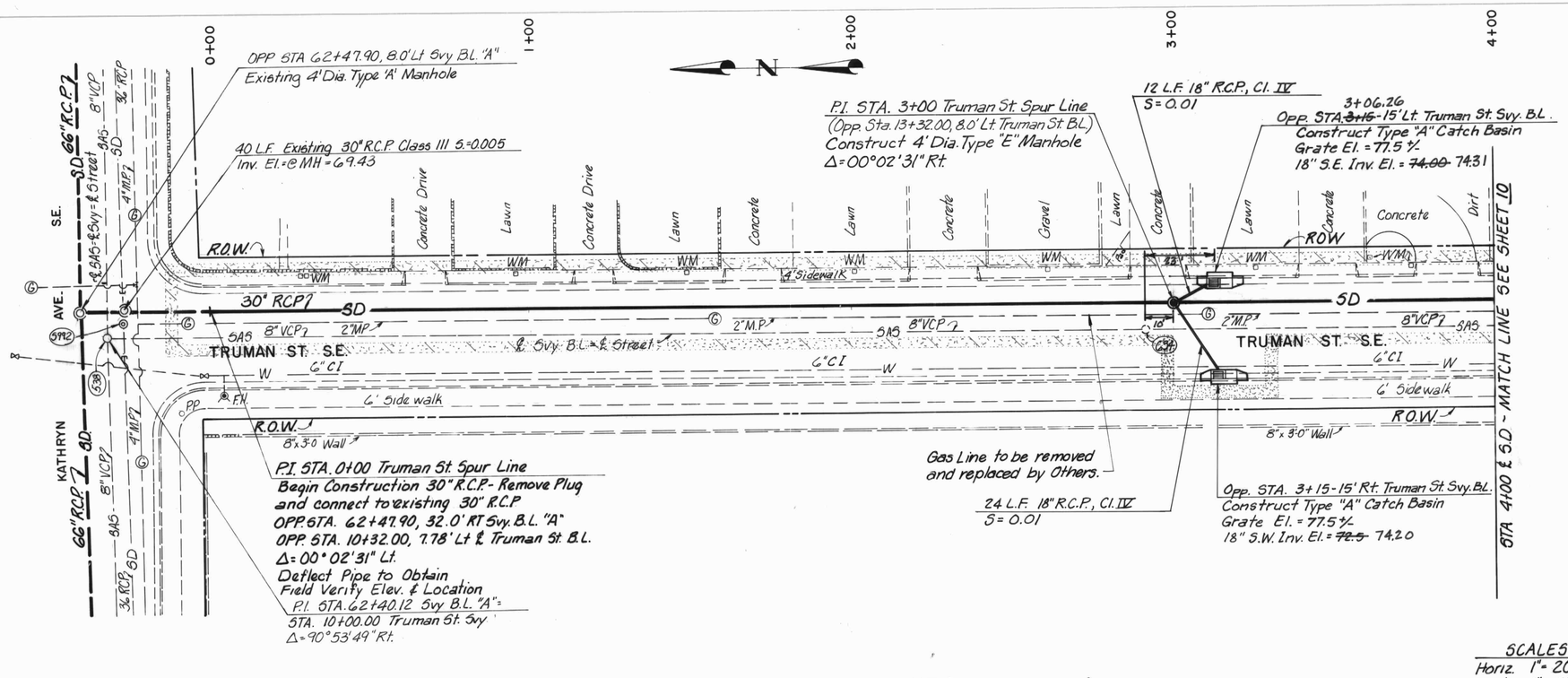
ASCG INCORPORATED

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM PHASE III B
STORM DRAIN PLAN AND PROFILE
BURTON AVE. EAST SPUR LINE (QUINCY ST. CATCH BASINS)
(STA. 0+06 to STA. 1+17)

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | | | Liquid Waste | | |
| A.C.E.-Design | NOV 25 2003 | | Traffic | NOV 25 2003 | |
| A.C.E.-Hydrology | | | Water | | |
| | DESIGN REVIEW COMMITTEE | | | CITY ENGINEER | |

| DRAWING NO. | MAP NO. | SHEET | OF |
|---|---|---|---|
| 720391 | L-17N | 8 | 21 |



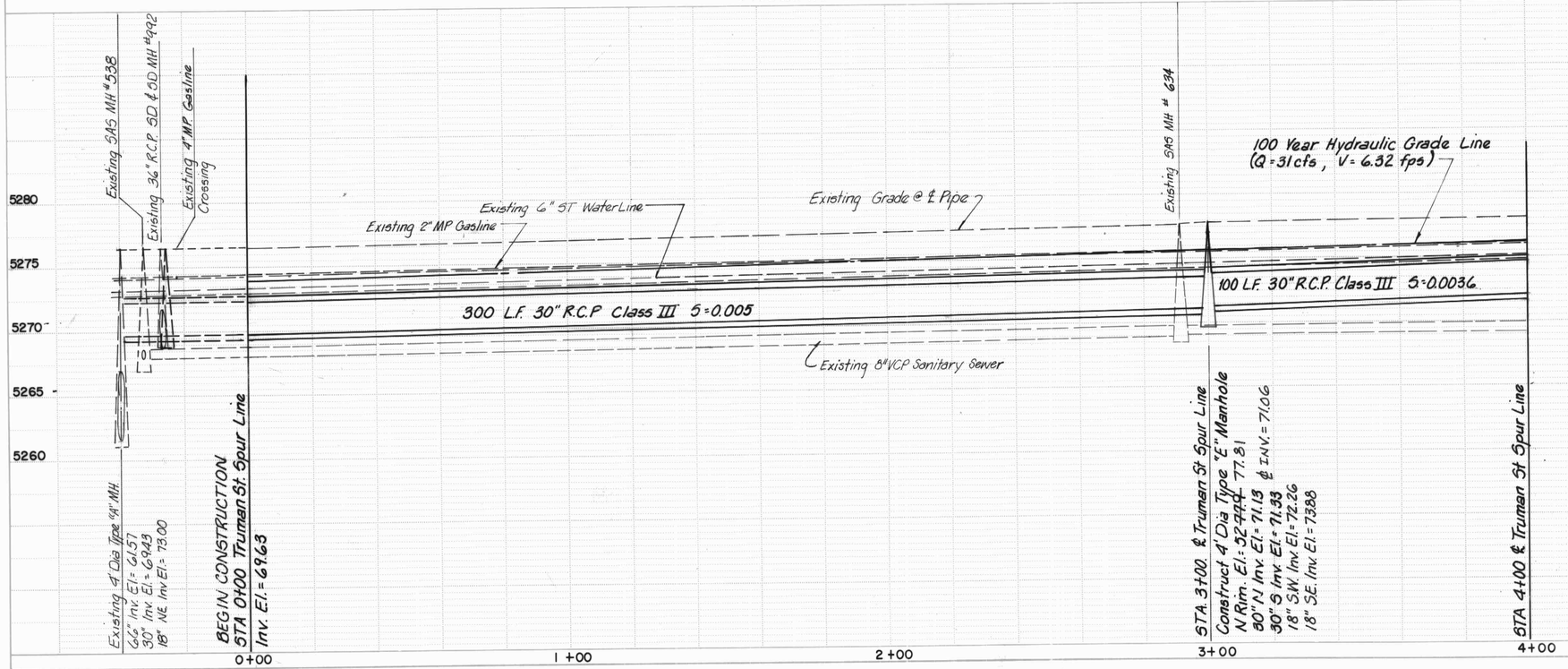

Existing Manhole Data
Existing Sanitary Sewer Manhole
L-17S-634
Sta. 13+23.7 0.2' Rt ℄ Svy
N. Rim El. = 77.85
8" N. Inv. El. = 69.12.
8" S. Inv. El. = 69.06.

NOTE:

1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

SCALES:
Horiz. 1" = 20'
Vert. 1" = 5'

## TRUMAN ST. S.E. SPUR LINE (TRUMAN ST. S.E.)




RECORD DRAWING
Date Feb. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

ASCG INCORPORATED

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM PHASE IIIB
STORM DRAIN PLAN AND PROFILE
TRUMAN ST. S.E. SPUR LINE
(STA 0+00 to STA. 4+00)

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | APPROVED NOV 25 2003 | | Liquid Waste | APPROVED NOV 25 2003 | |
| A.C.E.-Design | | | Traffic | | |
| A.C.E.-Hydrology | Design REVIEW COMMITTEE | | Water | CITY ENGINEER | |

DRAWING NO. 720391 | MAP NO. L-17-S | SHEET 9 OF 21

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

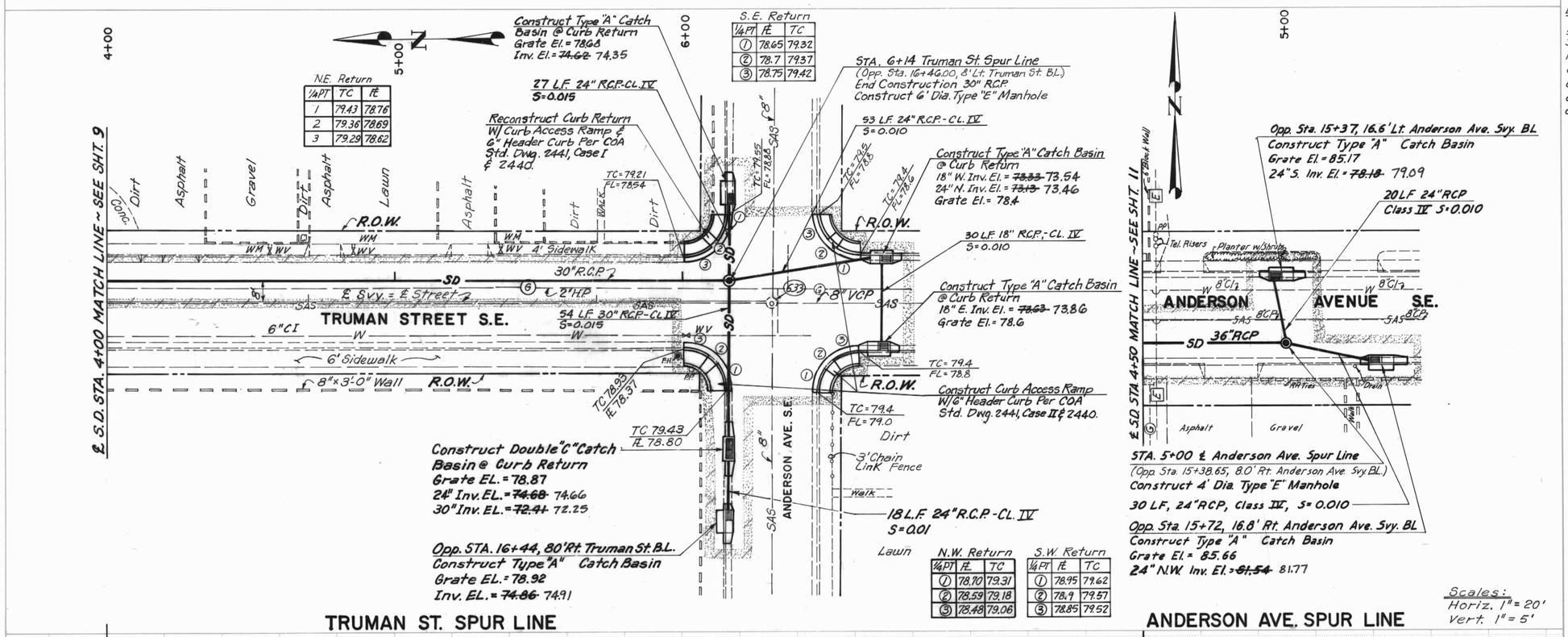
BENCH MARK'S
See Sheet 2 for Bench Mark Data.

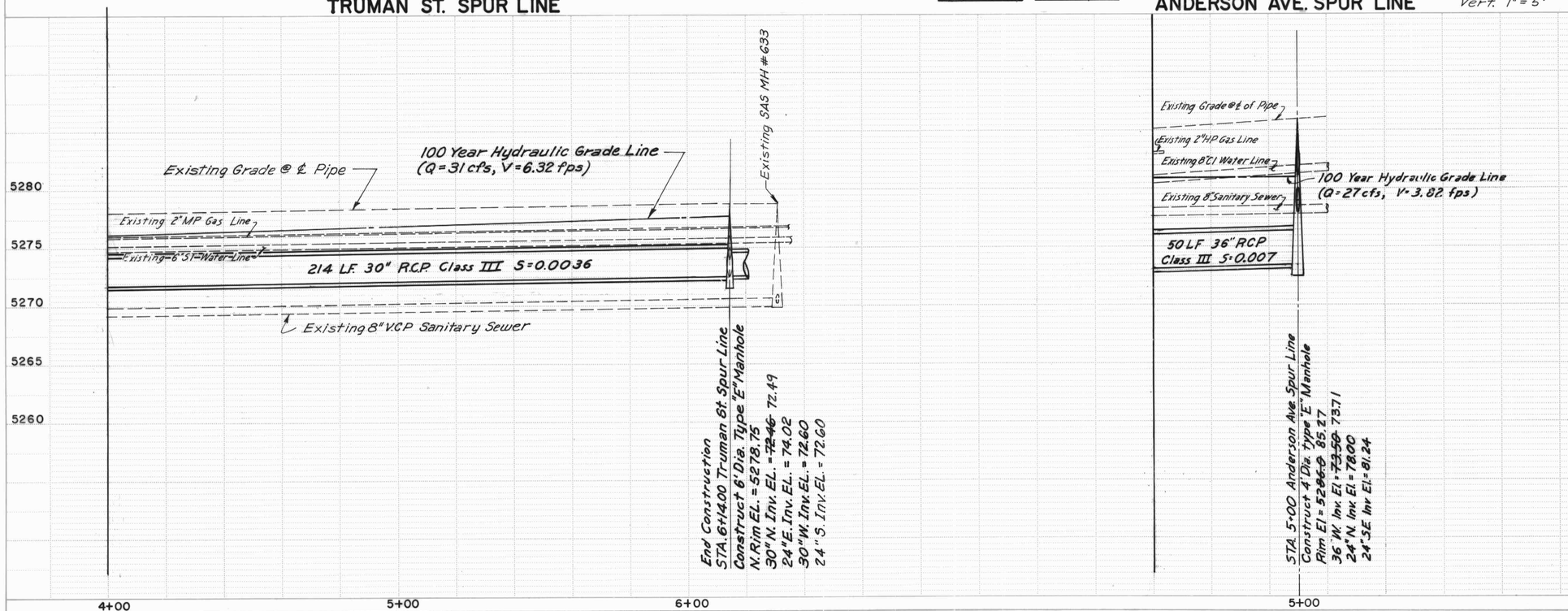
SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
11/6/03
REGISTERED PROFESSIONAL ENGINEER

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|
| | | | |

REMARKS
DESIGN
DESIGNED BY JAE, SUB — DATE Sept 1985
DRAWN BY JLB — DATE Sept 1985
CHECKED BY CD — DATE Sept 1985




## EXISTING MANHOLE DATA

Existing Sanitary Sewer Manhole

L-17 N - 633
Sta. 16+60.7 @ ℄ Svy.
N. Rim El. = 78.74
8" N. Inv. El. = 70.37
8" S. Inv. El. = 70.39
8" E. Inv. El. = 70.67
8" W. Inv. El. = 70.64

**NOTE:**

1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

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

BENCH MARKS
See Sheet 2 for Bench Mark Data

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
11/6/03

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | |

DESIGNED BY JAE, SJB DATE Sept 1985
DRAWN BY VRV, KHH DATE Oct 1985
CHECKED BY CD DATE 1985

**RECORD DRAWING**
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

ASCG INCORPORATED

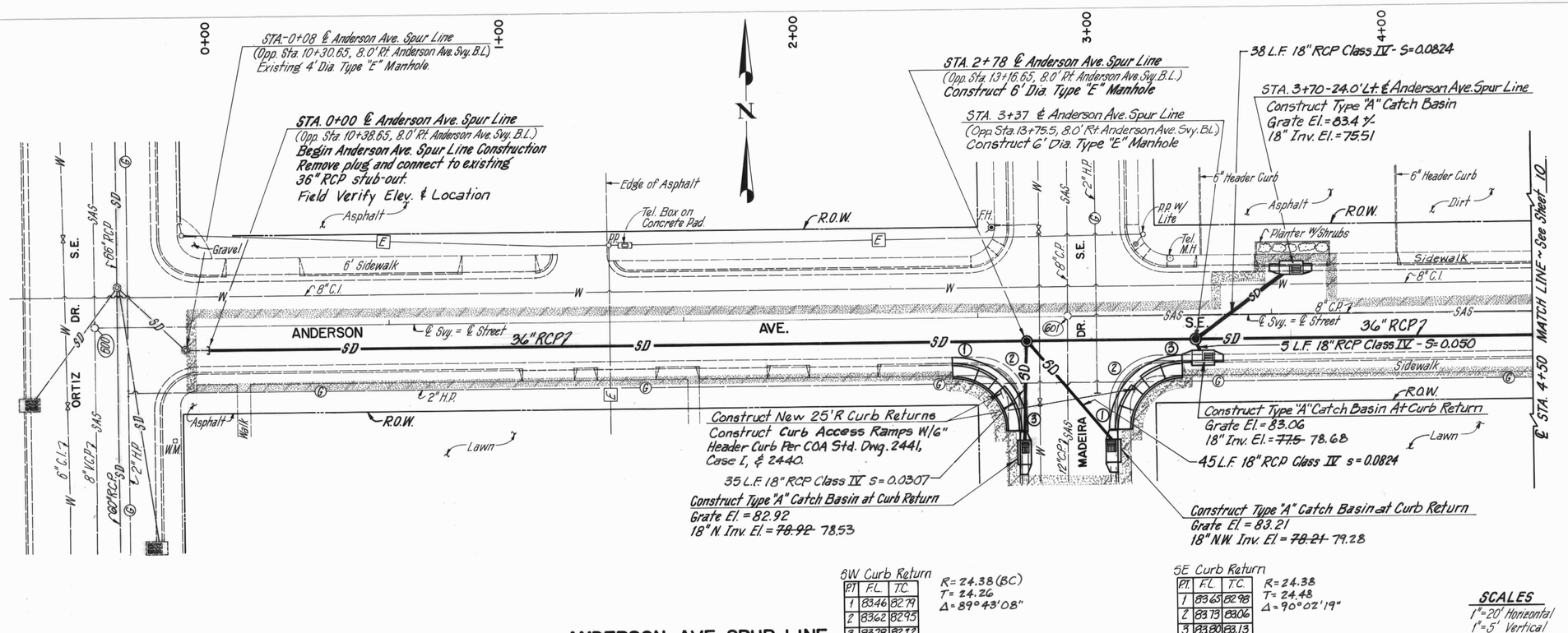
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE IIIB
STORM DRAIN PLAN AND PROFILE
TRUMAN ST. SPUR LINE (STA. 4+00 to STA. 6+14)
ANDERSON AVE. SPUR LINE (STA. 4+50 to STA. 5+00)

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | | | Liquid Waste | | |
| A.C.E.-Design | | | Traffic | | |
| A.C.E.-Hydrology | | | Water | | |

APPROVED NOV 25 2003 — DESIGN REVIEW COMMITTEE
APPROVED NOV 25 2003 — CITY ENGINEER

DRAWING NO. 720391 | MAP NO. L-17-S | SHEET 10 OF 21




**SW Curb Return**

| PT | F.L. | T.C. |
|---|---|---|
| 1 | 83.46 | 82.79 |
| 2 | 83.62 | 82.95 |
| 3 | 83.78 | 82.72 |

R = 24.38 (BC)
T = 24.26
Δ = 89°43'08"

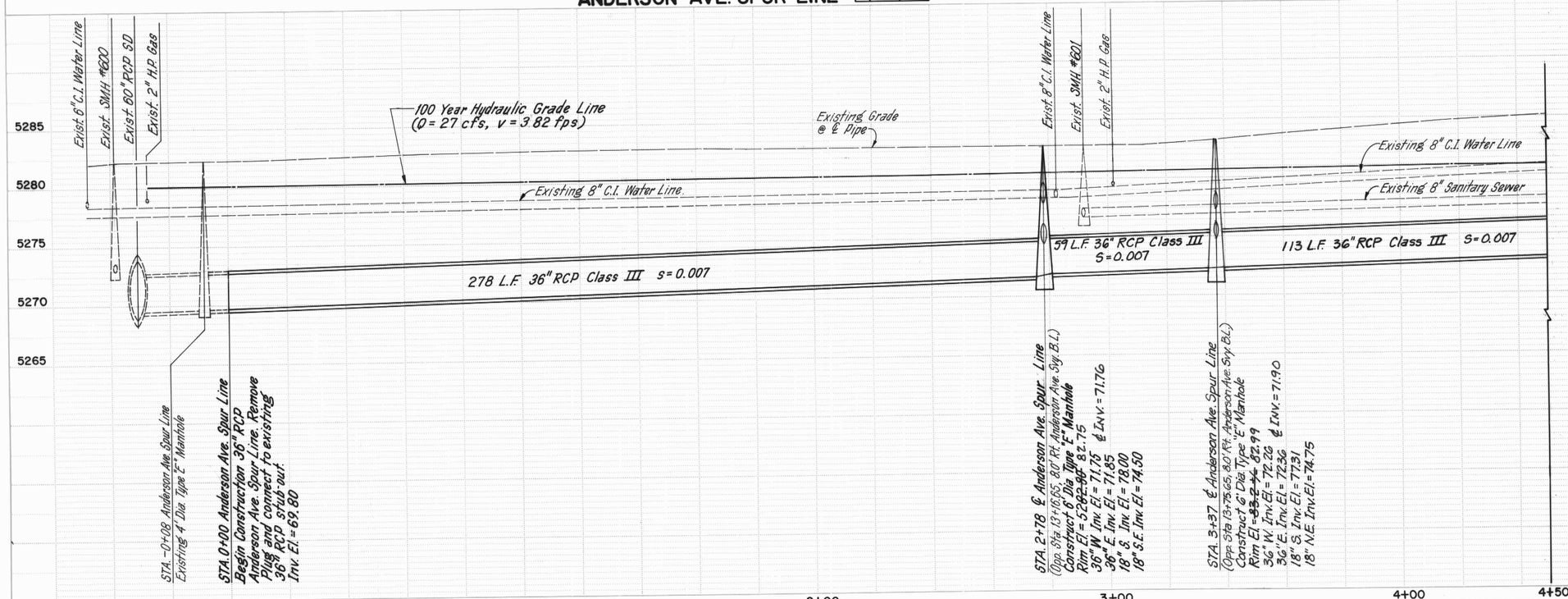
**SE Curb Return**

| PT | F.L. | T.C. |
|---|---|---|
| 1 | 83.65 | 82.98 |
| 2 | 83.73 | 83.06 |
| 3 | 83.80 | 83.13 |

R = 24.38
T = 24.48
Δ = 90°02'19"

**SCALES**
1" = 20' Horizontal
1" = 5' Vertical

## ANDERSON AVE. SPUR LINE




## EXISTING MANHOLE DATA

Existing Sanitary Sewer Manhole

L-18-S 601
Sta. 13+30.4, 0.4' Lt. ℄ Svy. B.L. (Anderson)
N. Rim El. = 82.60
8" N. Inv. El. = 76.68
12" S. Inv. El. = 76.67
8" E. Inv. El. = 76.87

**NOTE:**

1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

AS BUILT INFORMATION
CONTRACTOR / WORK STAKED BY / INSPECTOR'S AUTHORIZED CHANGE BY / FIELD VERIFICATION BY / DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE — NO.

BENCH MARKS
See Sheet 2 for Bench Mark Data.

SURVEY INFORMATION
FIELD NOTES
NO. — BY — DATE

ENGINEER'S SEAL
DAVID R. ROMERO
NEW MEXICO PROFESSIONAL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
11/6/03

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

DESIGN
DESIGNED BY JAE, SUB — DATE Sept. 1985
DRAWN BY VRV — DATE Sept. 1985
CHECKED BY CD — DATE Nov. 1985

**RECORD DRAWING**
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

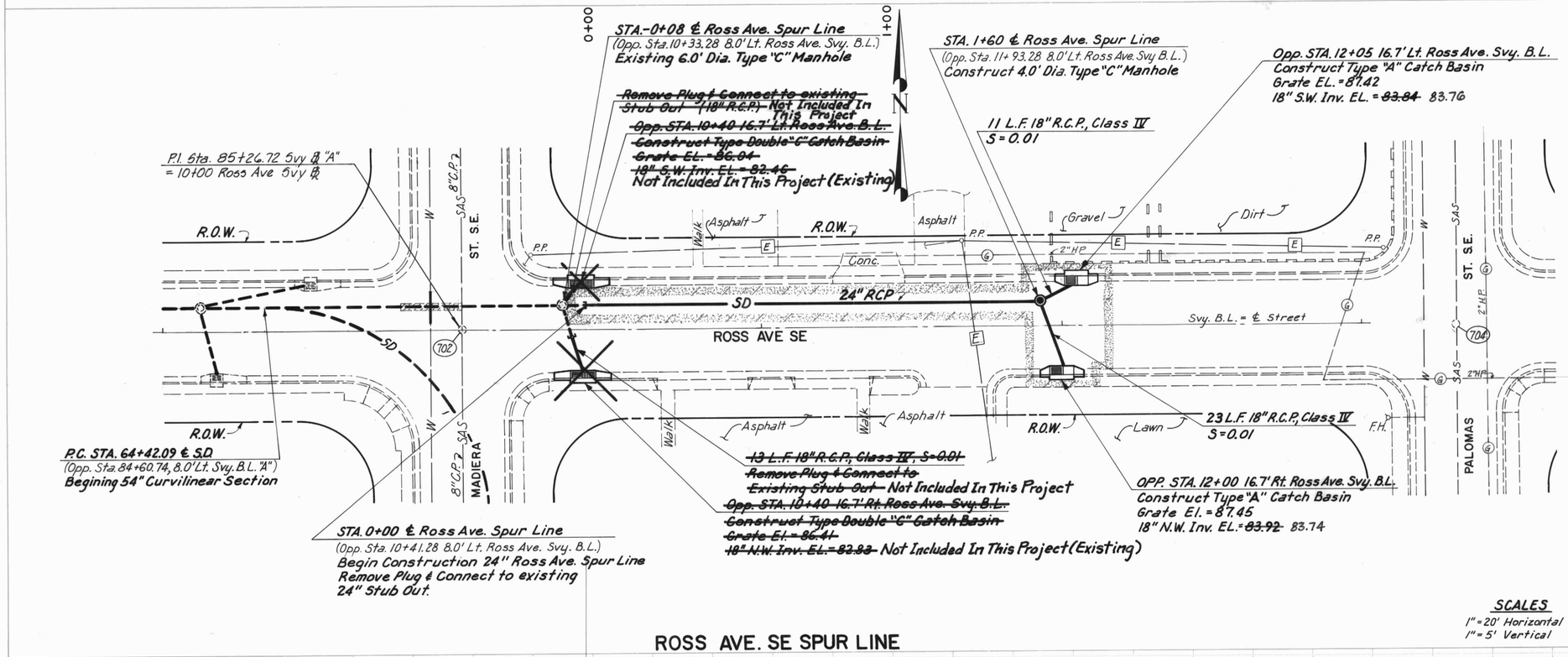
ASCG INCORPORATED

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM - PHASE IIB
STORM DRAIN PLAN AND PROFILE
ANDERSON AVE. SPUR LINE
(STA. 0+00 to STA. 4+50)

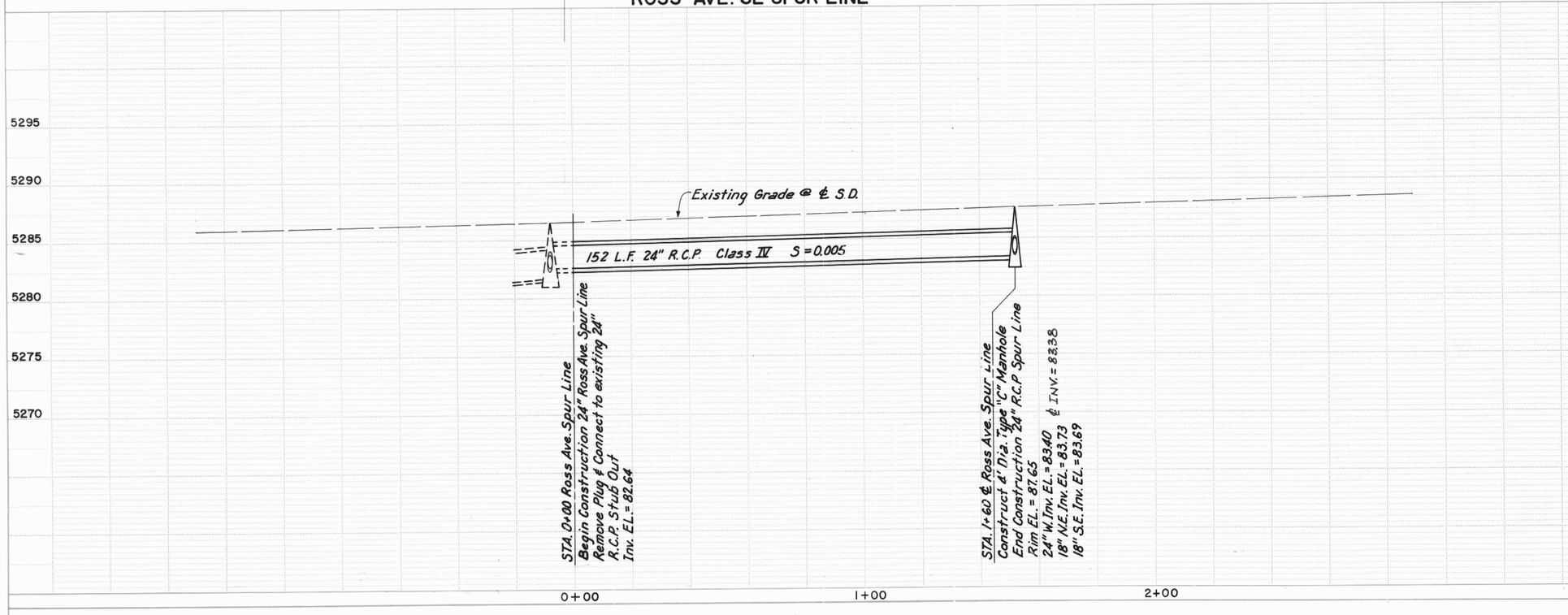
| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | APPROVED NOV 25 2003 | | Liquid Waste | APPROVED NOV 25 2003 | |
| A.C.E.- Design | | | Traffic | | |
| A.C.E.- Hydrology | DESIGN REVIEW COMMITTEE | | Water | CITY ENGINEER | |

DRAWING NO. 720391 — MAP NO. L-18S — SHEET 11 OF 21




## ROSS AVE. SE SPUR LINE

**SCALES**
1" = 20' Horizontal
1" = 5' Vertical




**EXISTING MANHOLE DATA**

Existing Sanitary Sewer Manhole

L-18.S - 702 - 4' Diameter
Sta. 10+00, 0.4' Lt. ℄ Svy.
N. Rim EL. = 86.32
8" N. Inv. EL. = 79.33
8" S. Inv. EL. = 79.42

**NOTE:**

1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

**RECORD DRAWING**
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

ASCG INCORPORATED

AS BUILT INFORMATION: CONTRACTOR, WORK STAKED BY, INSPECTORS ACCEPTANCE BY, FIELD CHECK BY, VERIFICATION BY, CORRECTED BY — DATE; MICRO-FILM INFORMATION: RECORDED BY, DATE, NO.

BENCH MARKS: See Sheet 2 for Bench Mark Datum

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

ENGINEER'S SEAL: 11/4/03 — CLIFFORD W. WELCH, NEW MEXICO, REGISTERED PROFESSIONAL ENGINEER

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |

DESIGN: DESIGNED BY S.L.B., J.A.E. — DATE Sept. 1985; DRAWN BY R.R.M. — DATE Sept. 1985; CHECKED BY C.D. — DATE Nov. 1985

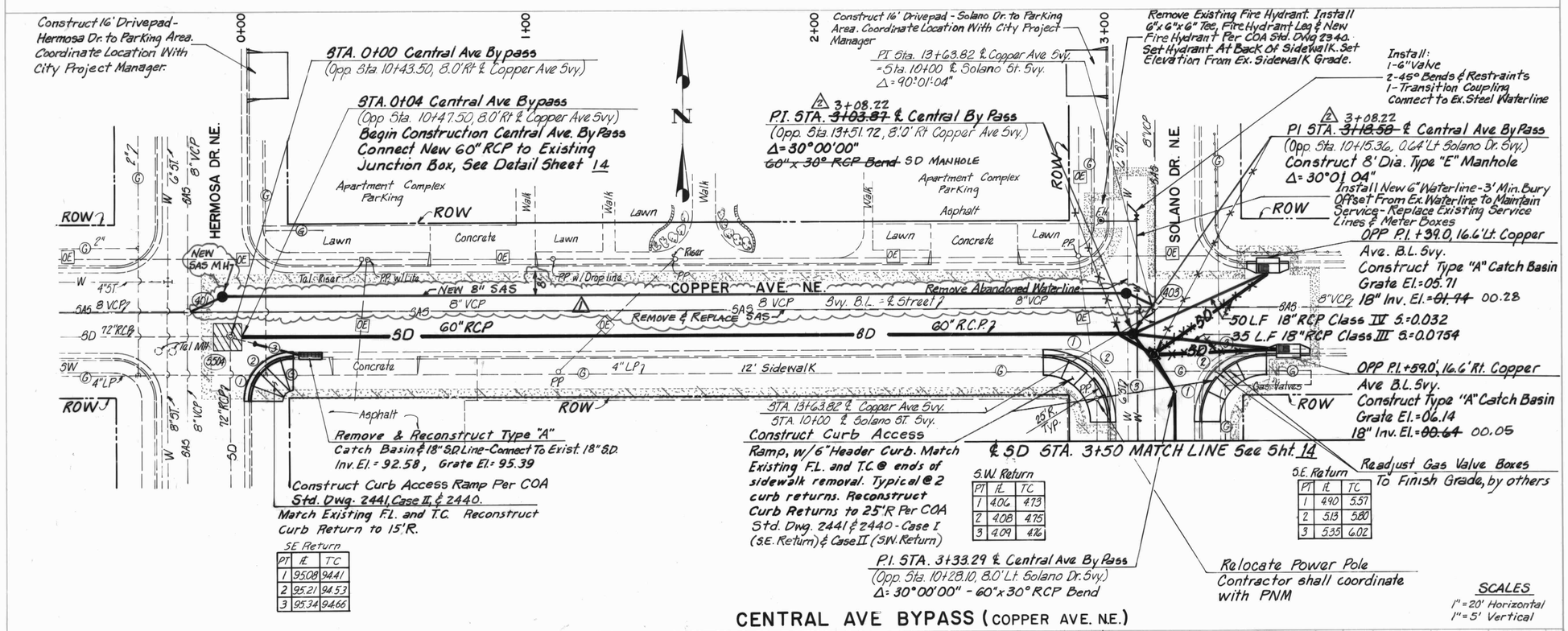
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM PHASE III B
STORM DRAIN PLAN AND PROFILE
ROSS AVE. S.E. SPUR LINE
(STA. 0+00 to STA. 1+60)

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | | | Liquid Waste | | |
| A.C.E.-Design | | | Traffic | | |
| A.C.E.-Hydrology | | | Water | | |

APPROVED NOV 25 2003 DESIGN REVIEW COMMITTEE
APPROVED NOV 25 2003 CITY ENGINEER

DRAWING NO. 720391 | MAP NO. L-18-S | SHEET 12 OF 21

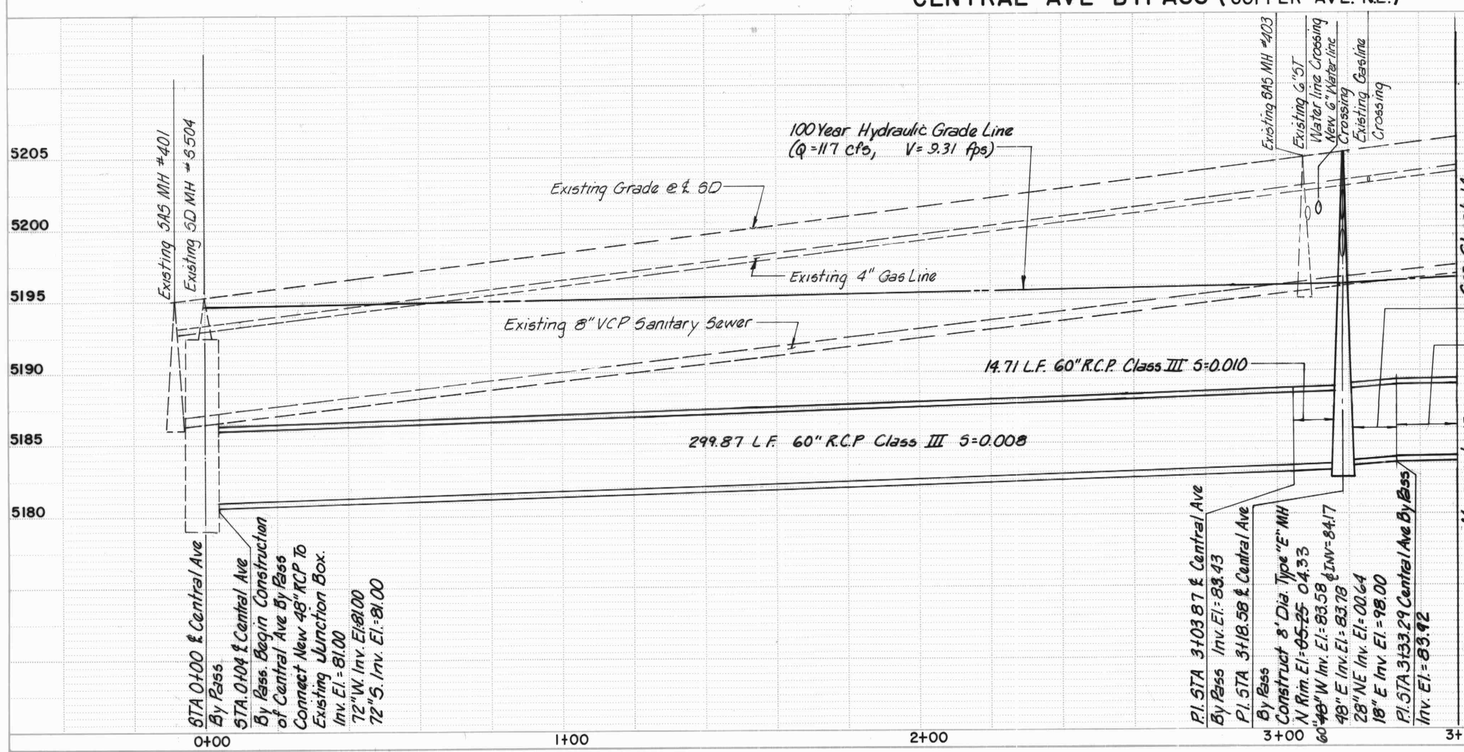



| SE Return | | |
|---|---|---|
| PT | IE | TC |
| 1 | 95.08 | 94.41 |
| 2 | 95.21 | 94.53 |
| 3 | 95.34 | 94.66 |

| S.W. Return | | |
|---|---|---|
| PT | IE | TC |
| 1 | 4.06 | 4.73 |
| 2 | 4.08 | 4.75 |
| 3 | 4.09 | 4.76 |

| S.E. Return | | |
|---|---|---|
| PT | IE | TC |
| 1 | 4.90 | 5.57 |
| 2 | 5.13 | 5.80 |
| 3 | 5.35 | 6.02 |

## CENTRAL AVE BYPASS (COPPER AVE. N.E.)




**CENTRAL AVENUE UTILITY PLAN NOTE:**

PRIOR TO BEGINNING CONSTRUCTION OF THE CENTRAL AVE. BYPASS PREPARE, SUBMIT, AND OBTAIN APPROVAL FROM THE CITY PROJECT MANAGER OF THE "CENTRAL AVE UTILITY PLAN" (THE PLAN). IMPLEMENT AND CONSTRUCT THE PLAN TO MAINTAIN EXISTING UTILITY SERVICE DURING CONSTRUCTION. IDENTIFY AND SCHEDULE ALL UTILITY OUTAGES IN THE PLAN.

IDENTIFY IN THE CENTRAL AVE. UTILITY PLAN ALL UTILITIES AFFECTED BY THE CONSTRUCTION OF THE CENTRAL AVE. BYPASS AND THE UTILITY OWNER/OPERATOR. THIS INCLUDES THE CENTRAL AVE. AND SOLANO DR. INTERSECTION, THE COPPER AVE. AND HERMOSA DR. AND SOLANO DR. INTERSECTIONS AND THE REACHES BETWEEN THE INTERSECTIONS. IDENTIFY HOW THE CONTRACTOR WILL PROVIDE THE NECESSARY STRUCTURAL SUPPORT, BYPASS PUMPING, BYPASS PIPING, REMOVAL AND REPLACEMENT, SEQUENCE AND SCHEDULE OF CONSTRUCTION, AND OTHER RELEVANT INFORMATION FOR ALL CITY OWNED OR OPERATED UTILITIES. COORDINATE WITH NON-CITY UTILITIES AND INCLUDE IN THE PLAN.

PAYMENT FOR PREPARING, SUBMITTING, OBTAINING APPROVAL, IMPLEMENTING AND CONSTRUCTING THE "CENTRAL AVE. UTILITY PLAN" SHALL BE PAID AS A LUMP SUM INCLUDING SHOE-FLY AND BYPASS PIPING, REMOVAL AND REPLACEMENT OF EXISTING UTILITIES, TEMPORARY AND PERMANENT SUPPORT AND ALL INCIDENTALS. ADDITIONAL WORK REQUESTED BY THE CITY (FOR EXAMPLE, REPLACEMENT OF DETERIORATED LINES) WILL BE PAID FOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REMOVAL AND REPLACEMENT OF UTILITIES SPECIFICALLY IDENTIFIED IN THE CONSTRUCTION DOCUMENTS WILL BE PAID IN ACCORDANCE WITH THE BID PROPOSAL ITEMS.

Existing Manhole Date

Existing Sanitary Sewer Manhole

K-17S 401
Sta. 10+34.5, 03' Rt & Svy
N. Rim. El. = 95.06
8" W. Inv. El. = 86.21
8" E. Inv. El. 86.27
8" N. Inv. El. 86.29, 91.06
8" S. Inv. El. 86.32

K-17S 403
Sta. 13+64.3, 0.7' Lt & Svy
N. Rim El. = 04.78
8" E. Inv. El. = 96.29
8" W. Inv. El. 96.03
8" N. Inv. El. = 96.16

Existing Storm Sewer Manhole

K-17S 8.504
Sta. 10+43.5, 8.1' Rt & Svy
N. Rim El. = 95.02
72" W. Inv. El. = 81.00
72" S. Inv. El. = 81.00
8E. Inv El. =

**NOTE:**

1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTORS ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS
See Sheet 2 for Bench Mark Datum.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
1/16/05
STATE OF NEW MEXICO
ALVIN DUGE WEBB
NEW MEXICO LICENSED PROFESSIONAL ENGINEER
REGISTERED

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| 2 | 2/10/05 | RELOCATE SD MANHOLE | |
| 1 | 2/10/05 | REMOVE/REPLACE SAS IN COPPER. | |

REVISIONS

| | | DATE |
|---|---|---|
| DESIGN | | |
| DESIGNED BY | JUB, JAE | DATE Sept. 1985 |
| DRAWN BY | JB | DATE Sept. 1985 |
| CHECKED BY | CD | DATE Nov. 1985 |

**RECORD DRAWING**
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

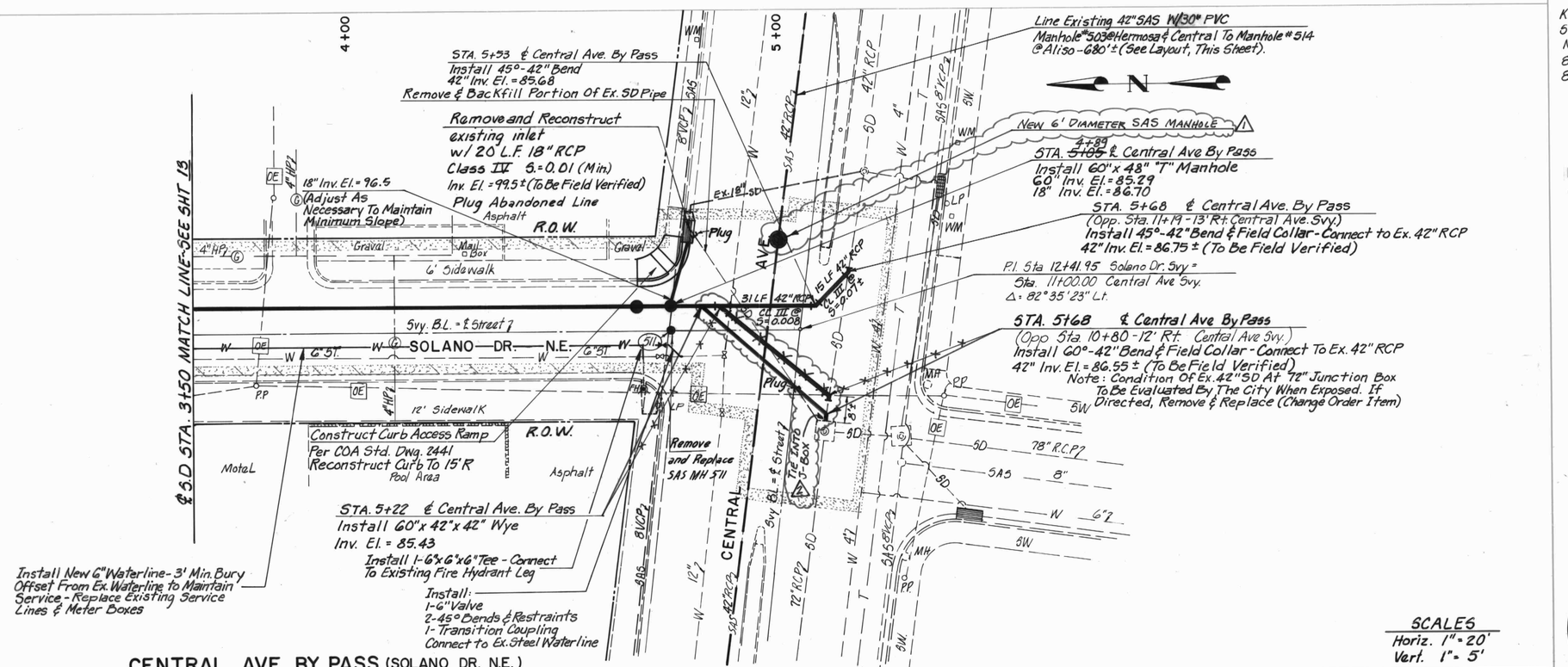
ASCG INCORPORATED

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

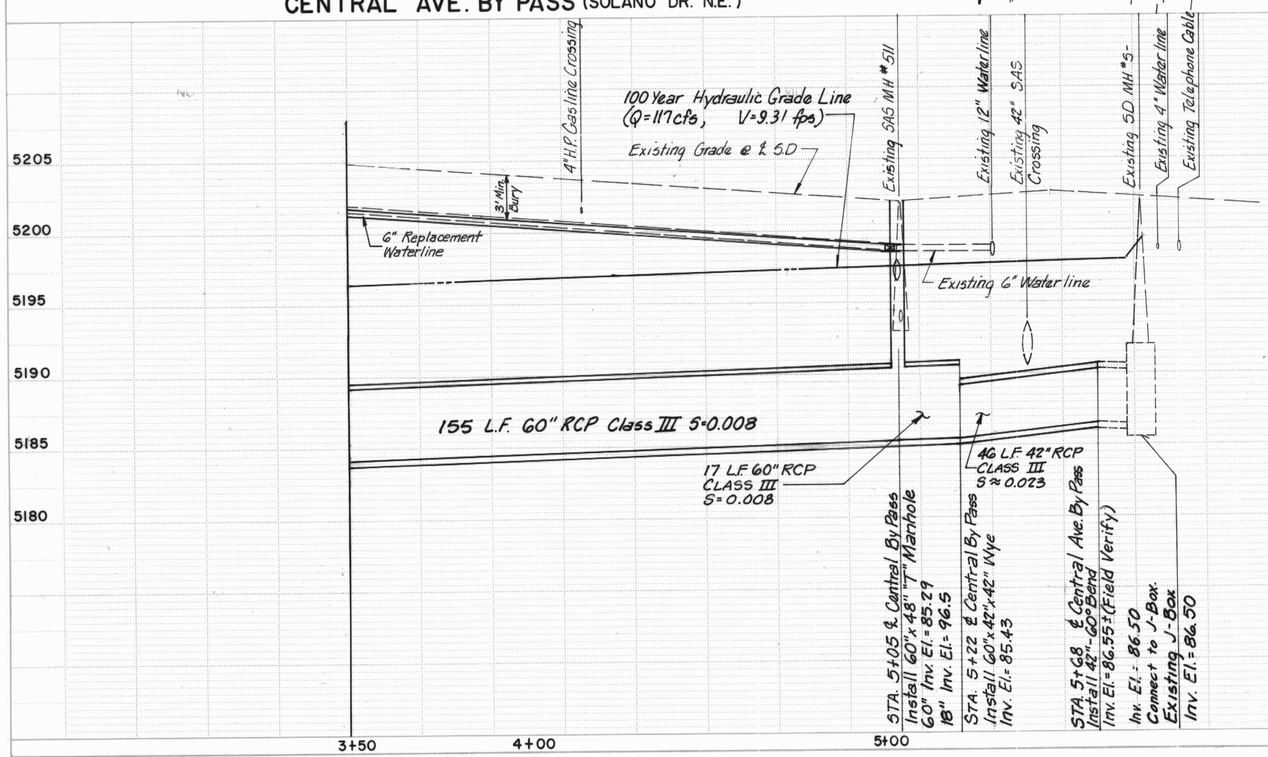
TITLE: HIGHLAND DETENTION BASIN SYSTEM PHASE IIIB
STORM DRAIN PLAN AND PROFILE
CENTRAL AVE. BYPASS
(STA. 00+00 to STA. 3+50)

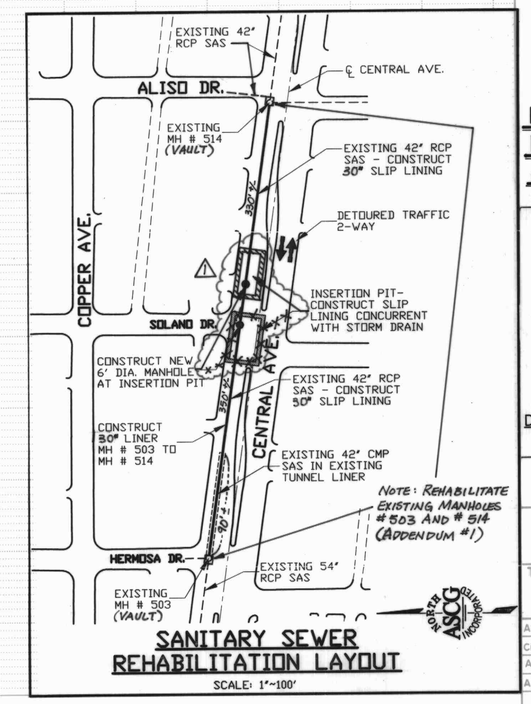
| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | APPROVED | | Liquid Waste | APPROVED | |
| A.C.E.-Design | | | Traffic | | |
| A.C.E.-Hydrology | | | Water | | |
| | DESIGN REVIEW COMMITTEE | | | CITY ENGINEER | |

| DRAWING NO. | MAP NO. | SHEET | OF |
|---|---|---|---|
| 720391 | K-17-S | 13 | 21 |




## CENTRAL AVE. BY PASS (SOLANO DR. N.E.)




## SANITARY SEWER REHABILITATION LAYOUT

SCALE: 1"~100'

Existing Manhole Data.
Existing Sanitary Sewer Manhole
K-17-5-511
Sta. 11+99.6, 1.6' Rt. ℄ Svy
N. Rim El. = 01.75
8" E. Inv. El. = 93.69
8" W Inv. El. = 93.66

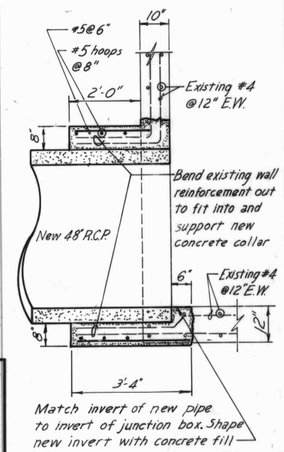
**NOTE:**

1. SEE GENERAL NOTES, SHEET 2, FOR DEFINITIONS OF CONSTRUCTION CONTROLS.

**RECORD DRAWING**

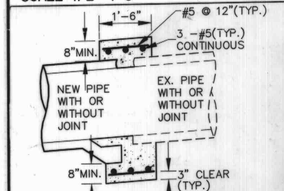
Date FEB. 10, 2005

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.




## DETAIL - CONNECTION OF NEW PIPE TO EXISTING JUNCTION BOX

SCALE: 1/2" = 1'-0"




## DETAIL - FIELD COLLAR CONNECTION NEW PIPE TO EXISTING PIPE

N.T.S.

ASCG INCORPORATED

AS BUILT INFORMATION

| CONTRACTOR | | |
|---|---|---|
| WORK STAKED BY | | DATE |
| INSPECTORS ACCEPTANCE BY | | DATE |
| FIELD VERIFICATION BY | | DATE |
| DRAWINGS CORRECTED BY | | DATE |

MICRO-FILM INFORMATION

| RECORDED BY | | DATE |
|---|---|---|
| NO. | | |

BENCH MARKS

See Sheet 2 for Bench Mark Data.

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| 1 | 2/10/05 | Tie SD Into J-Box | |
| 2 | 2/10/05 | Rev. Location MH & Insertion Pit | |

REVISIONS

| | | DATE |
|---|---|---|
| DESIGNED BY | JAE & GUB | Dec. 1984 |
| DRAWN BY | JLB | Sept 1985 |
| CHECKED BY | CD | Sept 1985 |

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: HIGHLAND DETENTION BASIN SYSTEM PHASE III B
STORM DRAIN PLAN AND PROFILE
CENTRAL AVE BY PASS
(STA. 3+50 to STA. 5+68.76)

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| City Engineer | | | Liquid Waste | | |
| A.C.E.-Design | NOV 25 2003 | | Traffic | NOV 25 2003 | |
| A.C.E.-Hydrology | | | Water | | |
| | DESIGN REVIEW COMMITTEE | | | CITY ENGINEER | |

| DRAWING NO. | MAP NO. | SHEET | OF |
|---|---|---|---|
| 720391 | K-17-S | 14 | 21 |

## CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPERATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

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

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

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

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

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

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

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF 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.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

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

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

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

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

33. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

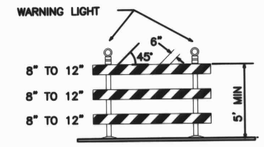
### TAPER CRITERIA

| TYPE OF TAPER | TAPER LENGTH |
|---|---|
| UPSTREAM TAPER: | |
| MERGING TAPER | L MINIMUM |
| SHIFTING TAPER | 1/2 L MINIMUM |
| SHOULDER TAPER | 1/2 L MINIMUM |
| TWO-WAY TRAFFIC TAPER | 100 FEET MAXIMUM |
| DOWNSTREAM TAPERS | 100 FEET PER LANE |

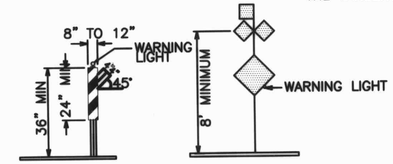
### TAPER LENGTH COMPUTATION

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

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

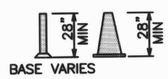


TYPE III BARRICADE



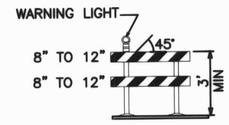
VERTICAL PANEL

HIGH LEVEL WARNING DEVICE

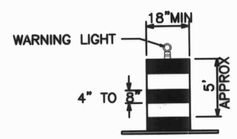


BASE VARIES

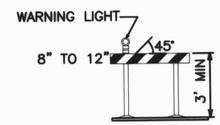
CONES



TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE

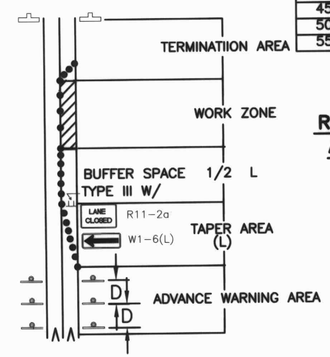
### LEGEND

- WORK AREA
- BARRICADE – TYPE I, TYPE II, 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.

### TAPER REQUIREMENT

| SPEED LIMIT (MPH) | TAPER LENGTH(L) (FEET) 10' LANE | 11' LANE | 12' LANE | MINIMUM NUMBER OF DEVICES FOR TAPER | MAXIMUM DEVICE SPACING IN FEET ALONG TAPER | AFTER TAPER |
|---|---|---|---|---|---|---|
| 20 | 70 | 75 | 80 | 5 | 20 | 20 |
| 25 | 105 | 115 | 125 | 6 | 25 | 25 |
| 30 | 150 | 165 | 180 | 7 | 30 | 30 |
| 35 | 205 | 225 | 245 | 8 | 35 | 35 |
| 40 | 270 | 295 | 320 | 9 | 40 | 40 |
| 45 | 450 | 495 | 540 | 13 | 45 | 45 |
| 50 | 500 | 550 | 600 | 13 | 50 | 50 |
| 55 | 550 | 605 | 660 | 13 | 55 | 55 |

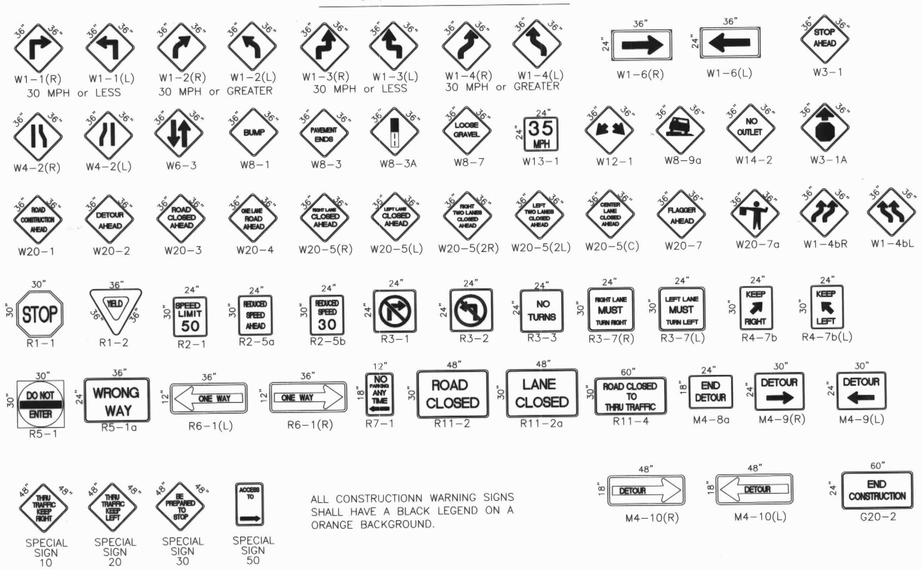


TRAFFIC CONTROL ELEMENTS

### RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

| SPEED MILES PER HOUR | MINIMUM DISTANCE IN FEET BETWEEN SIGNS | FROM LAST SIGN TO TAPER |
|---|---|---|
| 0–20 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 25–30 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 30–35 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 40–45 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 50–60 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |

### SIGN FACE DETAILS




ALL CONSTRUCTIONN WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

### SPECIAL PROJECT TRAFFIC CONTROL NOTES:

RECORD DRAWING
Date FEB. 10, 2005
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

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

BENCH MARKS
SEE SHEET 2 FOR BENCH MARK DATUM.

SURVEY INFORMATION
FIELD NOTES
NO. DATE

ENGINEERS SEAL

COA STANDARD DRAWING

| NO. | REMARKS | |
|---|---|---|
| | | DESIGNED BY CABQ DATE - - |
| | | DRAWN BY CABQ DATE - - |
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: HIGHLAND DETENTION BASIN PHASE III B
TRAFFIC CONTROL SIGNING AND
CONSTRUCTION TRAFFIC CONTROL STANDARDS

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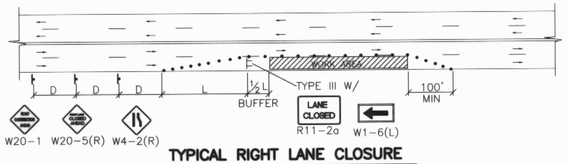
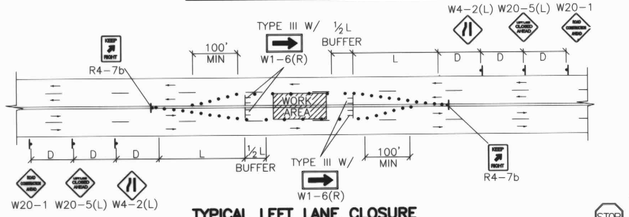
| COA | STD | | |

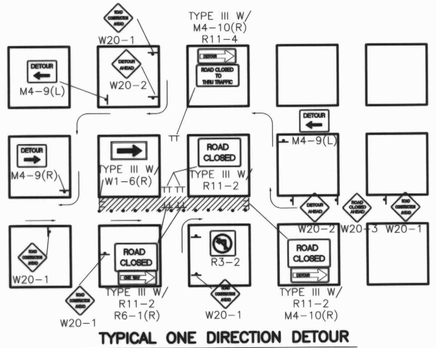
| City Project No. | Zone Map No. | Sheet | Of |
|---|---|---|---|
| 720391 | | 19 | 21 |



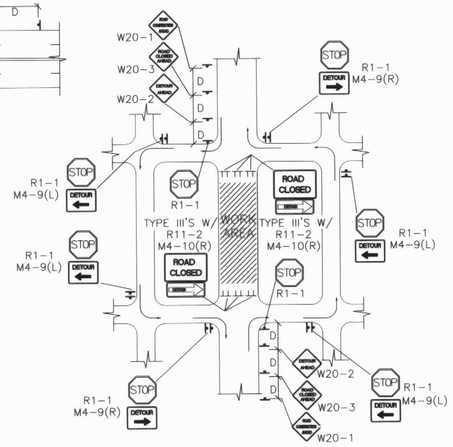

## TYPICAL RIGHT LANE CLOSURE




## TYPICAL LEFT LANE CLOSURE



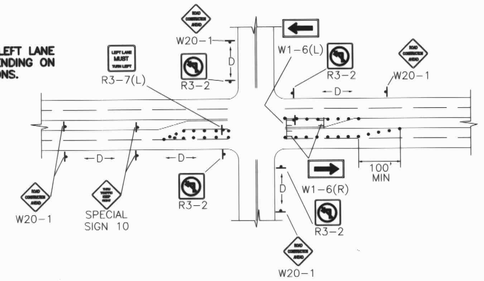

## TYPICAL ONE DIRECTION DETOUR




## TYPICAL STREET CLOSURE

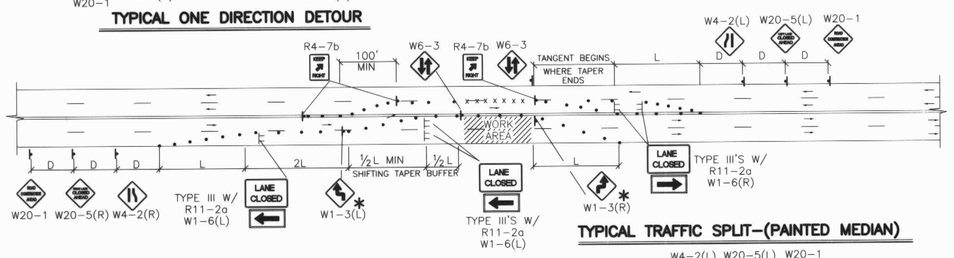
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

**NOTE:**
**MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.**

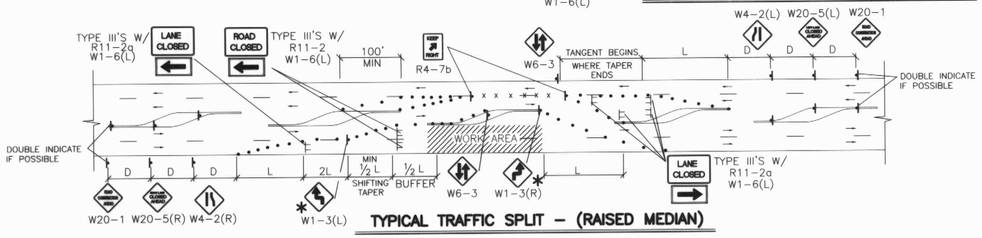



## TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.



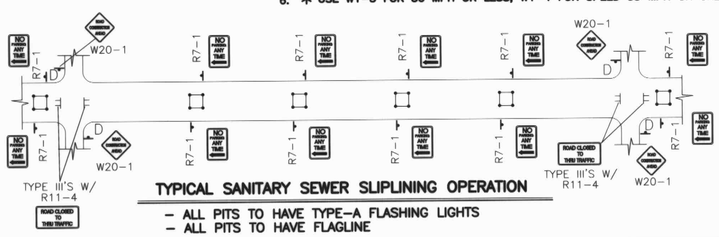

## TYPICAL TRAFFIC SPLIT–(PAINTED MEDIAN)




## TYPICAL TRAFFIC SPLIT – (RAISED MEDIAN)

**TRAFFIC SPLIT NOTES:**

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



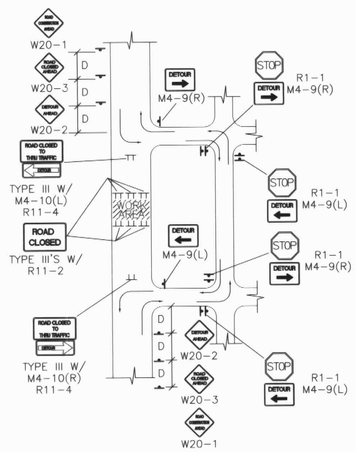

## TYPICAL SANITARY SEWER SLIPLINING OPERATION

- ALL PITS TO HAVE TYPE–A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

## GENERAL NOTE:

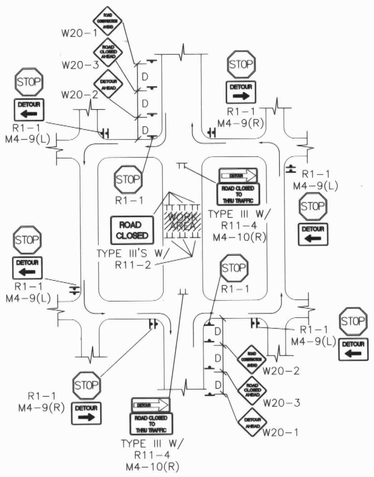
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE BACKGROUND.

⚠ ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



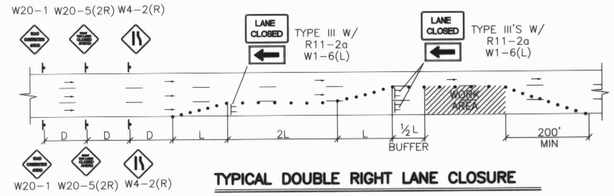

## TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

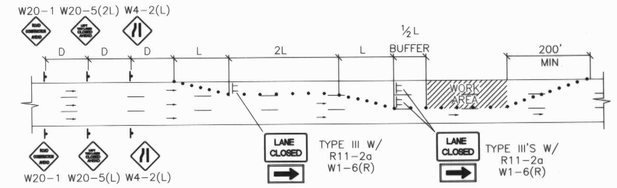



## TYPICAL MID–BLOCK CLOSURE

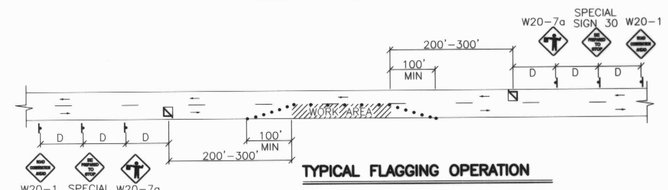
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



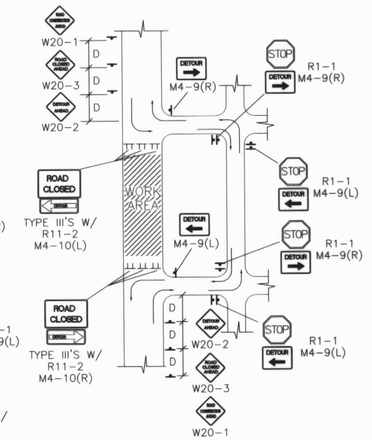

## TYPICAL DOUBLE RIGHT LANE CLOSURE




## TYPICAL DOUBLE LEFT LANE CLOSURE

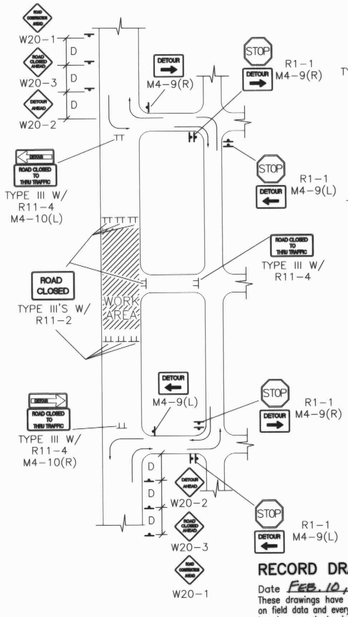



## TYPICAL FLAGGING OPERATION




## TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.




## TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

**RECORD DRAWING**

Date FEB. 10, 2005

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**ASCG INCORPORATED**

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AS BUILT INFORMATION

| CONTRACTOR STAKED BY | |
|---|---|
| INSPECTOR'S ACCEPTANCE BY | |
| FIELD VERIFICATION BY | |
| DRAWINGS CORRECTED BY | |

MICRO-FILM INFORMATION

| RECORDED BY | DATE |
|---|---|
| NO. | |

BENCH MARKS

SEE SHEET 2 FOR BENCH MARK DATUM.

SURVEY INFORMATION

FIELD NOTES

| NO. | DATE |
|---|---|
| | |

ENGINEERS SEAL

**COA STANDARD DRAWING**

| NO. | REMARKS | |
|---|---|---|
| | | |

| | | DATE |
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| DESIGNED BY | CABQ | – – |
| DRAWN BY | CABQ | – – |
| CHECKED BY | CABQ | – – |

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: HIGHLAND DETENTION BASIN PHASE III B
TRAFFIC CONTROL SIGNING AND
CONSTRUCTION TRAFFIC CONTROL STANDARDS

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

| City Project No. | Zone Map No. | Sheet | Of |
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| 720391 | | 20 | 21 |

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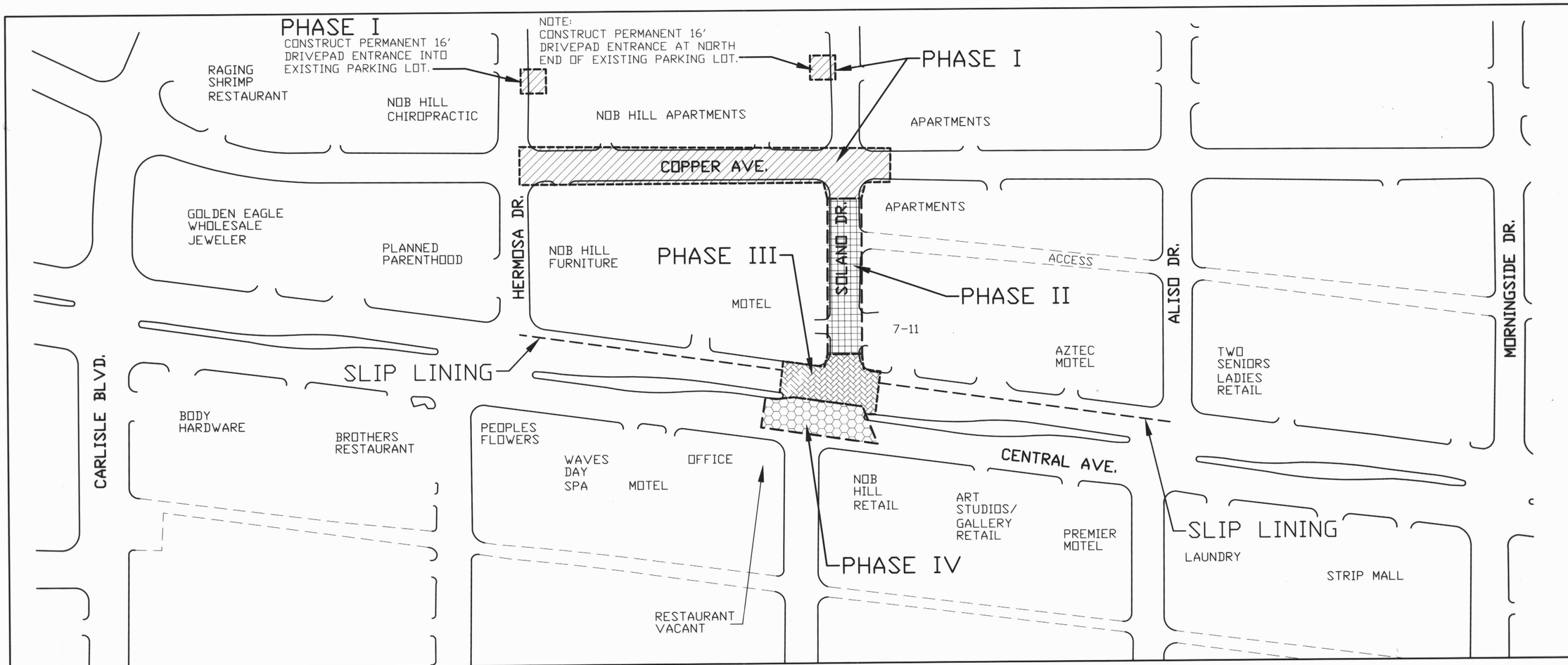


## CENTRAL BYPASS TRAFFIC PHASING

NOTE: CONTRACTOR MAY SUBMIT AN ALTERNATE PHASING AND TRAFFIC CONTROL PLAN FOR REVIEW.

### PHASE I

COPPER AVE. CONSTRUCTION:
CLOSE COPPER AVE. AND SOLANO DRIVE AT INTERSECTION. CONSTRUCT PERMANENT DRIVEPAD ENTRANCES TO NOB HILL APARTMENTS ON SOLANO DRIVE AND HERMOSA DRIVE. COORDINATE WITH PROJECT MANAGER. SEE TYPICAL STREET CLOSURE DETAILS, SHEET 20. PROVIDE ACCESS SIGNS FOR NOB HILL APARTMENTS, NOB HILL FURNITURE, AND APARTMENTS EAST OF SOLANO ON COPPER AVENUE.

### PHASE II

SOLANO DRIVE CONSTRUCTION:
CLOSE SOLANO DRIVE BETWEEN COPPER AVE. AND CENTRAL AVE. SEE TYPICAL STREET CLOSURE DETAILS, SHEET 20. PROVIDE ACCESS SIGNS FOR MOTEL AND 7-11.

### PHASE III

CENTRAL AVE. NORTH CONSTRUCTION:
CLOSE WESTBOUND LANES OF CENTRAL AVE. BETWEEN HERMOSA DRIVE AND ALISO DRIVE WITH LOCAL ACCESS. OPEN SOLANO NORTH OF DRIVE ENTRANCES. MAINTAIN TWO-WAY TRAFFIC ON SOUTH SIDE OF CENTRAL AVE. SEE TYPICAL TRAFFIC SPLIT (RAISED MEDIAN), SHEET 20. PROVIDE ACCESS SIGNS FOR FOR MOTEL, 7-11, AZTEC MOTEL, AND NOB HILL FURNITURE.

### PHASE IV

CENTRAL AVE. SOUTH CONSTRUCTION:
MAINTAIN ONE LANE OF EAST BOUND TRAFFIC ON SOUTH SIDE OF CENTRAL AND ONE LANE OF WEST BOUND TRAFFIC ON NORTH SIDE OF CENTRAL. SEE TYPICAL LEFT LANE CLOSURE, SHEET 20. PROVIDE TEMPORARY TRAFFIC IMPACT BARRIERS BETWEEN EASTBOUND LAND AND CONSTRUCTION ZONE.

## PHASE III & IV CONSTRUCTION NOTES

1. PROVIDE TWO VARIABLE MESSAGE BOARDS 5 DAYS PRIOR TO, AND DURING ALL CONSTRUCTION.
2. PROVIDE ARROW BOARDS FOR LANE CLOSURES.
3. NARROW TRAFFIC LANES TO 10' FROM FACE OF CURB ON SOUTH SIDE OF CENTRAL AVE. DURING PHASE III CONSTRUCTION AND PROVIDE "RESTRICTED LANE WIDTH" SIGNAGE. POSTED MAXIMUM SPEED TO BE 20 MPH.

## LEGEND

- PHASE I WORK ZONE
- PHASE II WORK ZONE
- PHASE III WORK ZONE
- PHASE IV WORK ZONE

NORTH ASCG INCORPORATED

0 25' 50' 100' 200'
1" = 50'

**RECORD DRAWING**
Date FEB. 10, 2005
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BENCH MARKS
SEE SHEET 2 FOR BENCH MARK DATUM.

SURVEY INFORMATION
FIELD NOTES
NO. DATE

ENGINEERS SEAL

| NO. | REMARKS | DATE |
|---|---|---|
| | | |

DESIGNED BY CAB DATE
DRAWN BY CAB DATE
CHECKED BY CD DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: HIGHLAND DETENTION BASIN PHASE III B
CENTRAL BYPASS
TRAFFIC CONTROL PLAN

| Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr. |
|---|---|---|---|---|
| APPROVED NOV 25 2003 | APPROVED NOV 25 2003 CITY | | | |

| City Project No. | Zone Map No. | Sheet | Of |
|---|---|---|---|
| 720391 | K-17 | 21 | 21 |

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