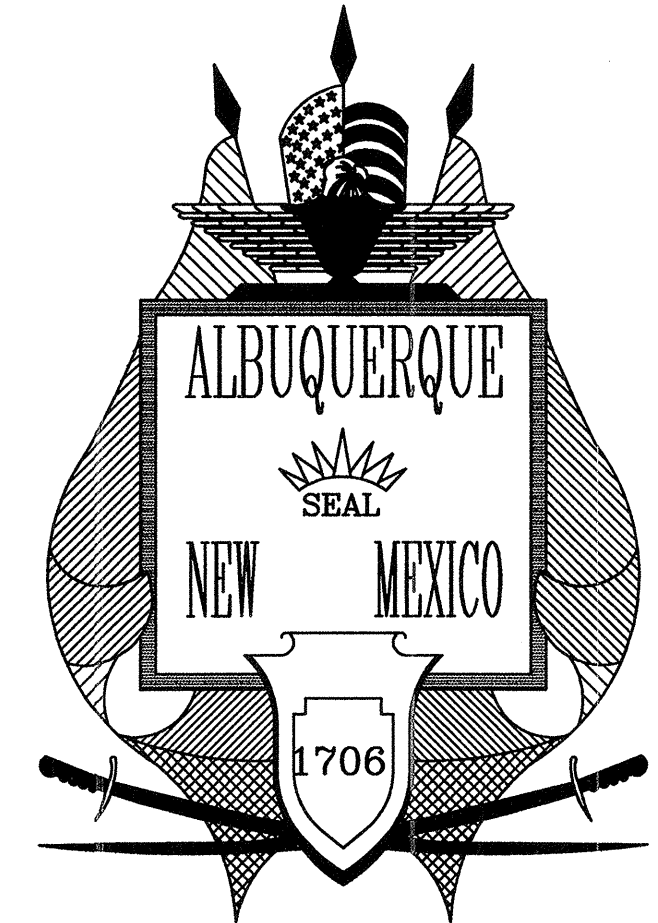


ETHLYN AVENUE

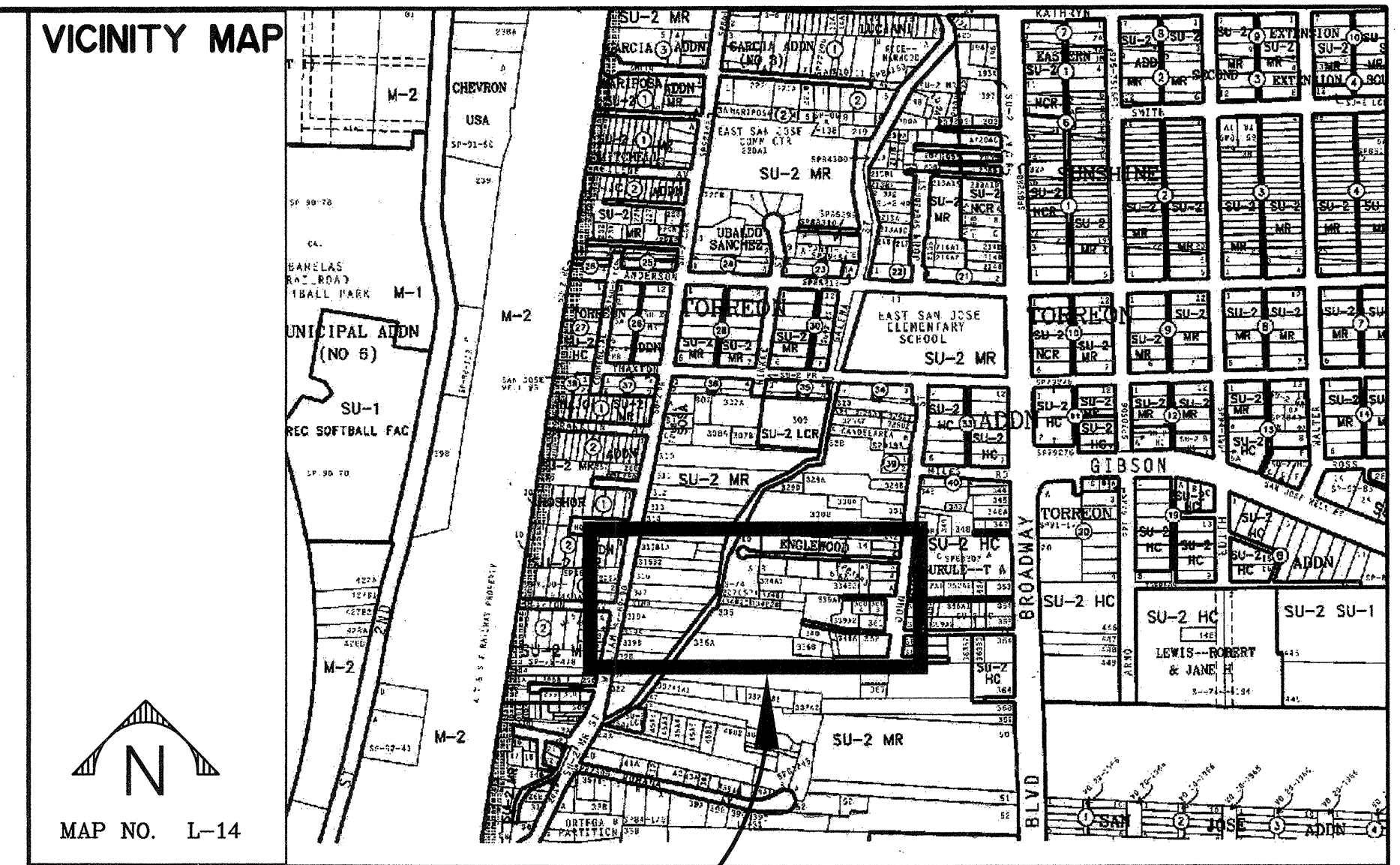


# CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT PLANS FOR CONSTRUCTION

## ETHLYN AVENUE IMPROVEMENTS

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#### UTILITY COMPANY CONTACTS

**PNM**  
JIM VANN  
4201 Edith Blvd., NE  
Albuquerque, New Mexico 87107  
(505) 848-3426

**AT&T**  
DAVID CROWEL  
111 Third ST., NW  
Albuquerque, New Mexico 87103  
(505) 842-2890

**US WEST COMMUNICATIONS**  
CATHY SCHNEIDER  
(505) 245-6846 OR  
DAVID MUELLER  
(505) 245-8706  
201 Third Street NW  
Suite 700  
Albuquerque, New Mexico 87102

**E-SPIRE (ACSI)**  
STEVE BENJAMIN  
505 Marquette NE  
Suite 1605  
Albuquerque, New Mexico 87102  
(505) 842-2806

**BROOKS/WORLD-COM/MCI**  
MCIWorldCom  
CALVIN VANWAGNER  
2250 Lakeside Blvd.  
Richardson, TX 75082  
Attn: Investigations  
Dept. 2855 / 642  
(972) 656-4574

**GAS CO.**  
KELLY BOUSKA  
4625 Edith Blvd., NE  
Albuquerque, New Mexico 87107  
(505) 241-7752

**JONES INTERCABLE**  
KAREN SHORE  
4611 Montbel Pl., NE  
P.O. Box 27138  
Albuquerque, New Mexico 87125-7138  
(505) 761-6220

**CITY OF ALBUQUERQUE  
(WATER & SEWER)**  
GREG OLSEN  
PWD/Utility Development  
P.O. Box 1293  
Albuquerque, New Mexico 87103  
(505) 768-2719

**GST NEW MEXICO  
LIGHTWAVE INC.**  
ROYAL HARRISON  
3830 Singer Blvd. NE  
Suite 1000  
Albuquerque, New Mexico 87109  
(505) 938-7339

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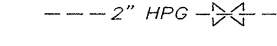
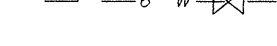
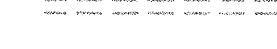
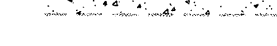
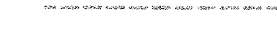
|                             |        |                  |          |                 |      |                           |      |
|-----------------------------|--------|------------------|----------|-----------------|------|---------------------------|------|
| REV.                        | SHEETS | CITY ENGINEER    | DATE     | USER DEPARTMENT | DATE | USER DEPARTMENT           | DATE |
| ENGINEERS STAMP & SIGNATURE |        | APPROVED         | ENGINEER |                 | DATE | APPROVED FOR CONSTRUCTION |      |
|                             |        | DRC Chairman     |          |                 |      |                           |      |
|                             |        | Transportation   |          |                 |      |                           |      |
|                             |        | Water/Wastewater |          |                 |      |                           |      |
|                             |        | Hydrology        |          |                 |      |                           |      |
|                             |        | C I P            |          |                 |      |                           |      |
|                             |        | Constr. Mngmt.   |          |                 |      | CITY ENGINEER             |      |
|                             |        |                  |          |                 |      | DATE                      |      |
| PROJECT NUMBER              |        |                  |          |                 |      | SHEET 1 OF 10             |      |
| 5744.90                     |        |                  |          |                 |      |                           |      |

- 1
- THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS.
- 2
- THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE FIELD ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY BY THE FIELD ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS.
- 3
- THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1994 EDITION, UPDATE NO.6.
- 4
- ALL NEW MANHOLES SHALL BE TYPE "C" (COA DWG. 2107) UNLESS OTHERWISE NOTED ON THE PLANS.
- 5
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- 6
- ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- 7
- SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.
- 8
- THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF THE CITY OF ALBUQUERQUE OF SPECIFICATIONS.
- 9
- ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 10
- ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- 11
- THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 18 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.
- 12
- WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.
- 13
- ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH CITY UTILITY COORDINATOR.
- 14
- WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE CITY FIELD ENGINEER.
- 15
- THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.
- 16
- CONTRACTOR WILL MAKE ALL WATER VALVES AND MANHOLES ACCESSIBLE TO THE CITY AT ALL TIMES.
- 17
- CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 8 FEET IN WIDTH OR WIDER.
- 18
- ALL SUBGRADE AND SUBBASE MATERIAL ENCOUNTERED IN PAVEMENT REMOVAL AND REPLACEMENT THAT IS DETERMINED BY THE FIELD ENGINEER TO MEET THE SPECIFICATIONS, CAN BE REUSED. HOWEVER, THE MATERIAL WILL BE PROCESSED AND COMPACTED TO MEET MOISTURE CONTENT AND PERCENT COMPACTING REQUIRED BY THE SPECIFICATIONS.
- 19
- CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC. WITHOUT PRIOR APPROVAL FROM THE CITY FIELD ENGINEER.
- 20
- CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.

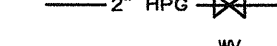
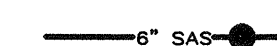
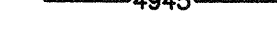
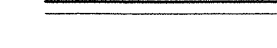
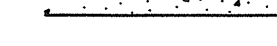
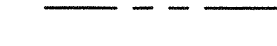
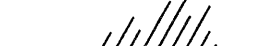
- 21
- ALL WATER VALVES AND FIRE HYDRANTS REMOVED TO BE SALVAGED AND RETURNED TO THE CITY OF ALBUQUERQUE.
- 22
- MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 16 INCHES. BEDDING MATERIAL SHALL BE CLASS II, III, OR IV UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.
- 23
- MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 12 INCHES. BEDDING MATERIAL SHALL BE CLASS I, II, OR III.
- 24
- THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.
- 25
- ALL STRUCTURAL CONCRETE TO BE 4000 PSI UNLESS OTHERWISE NOTED ON PLANS.
- 26
- ALL REINFORCING STEEL TO BE GRADE 60.
- 27
- ALL EXPOSED EDGES ON CAST-IN-PLACE CONCRETE STRUCTURES WILL HAVE A 1" CHAMFER UNLESS OTHERWISE NOTED.
- 28
- ALL SPLICES IN REINFORCING STEEL TO BE 2-FOOT 6-INCH MINIMUM UNLESS OTHERWISE NOTED.
- 29
- PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE CITY FIELD ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- 30
- THE REPLACEMENT OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE FINAL PAVEMENT WORK STARTS IN EACH AREA. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MAINTENANCE OF THE TEMPORARY PAVING AND STRIPING WILL BE AT THE CONTRACTOR'S EXPENSE.
- 31
- TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE CITY FIELD ENGINEER.
- 32
- THE CONTRACTOR WILL CONTACT THE CITY OF ALBUQUERQUE TRAFFIC DIVISION (764-1599), ONE (1) WEEK IN ADVANCE OF ANY CHANGES REQUIRED IN THE TRAFFIC SIGNALIZATION OF THIS PROJECT. ALL WORK ASSOCIATED WITH NEW TRAFFIC SIGNALIZATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 33
- ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
- 34
- PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 35
- ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CITY FIELD ENGINEER.
- 36
- THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- 37
- ALL CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 38
- EXISTING MEDIAN CURB AND GUTTER AND STANDARD CURB AND GUTTER, NOT DISTURBED BY CONTRACTOR, BUT OUT OF ALIGNMENT, DISPLACED VERTICALLY, BADLY BROKEN AND/OR DETERIORATED, WILL BE REPLACED AS DIRECTED BY THE CITY FIELD ENGINEER AND PAID FOR AT CONTRACT UNIT PRICES.
- 39
- ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR MUST MAKE PROVISIONS TO PROVIDE ACCESS TO PROPERTIES. REFER TO SECTION 19 OF THE CITY OF ALBUQUERQUE SPECIFICATIONS.

- 40
- ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.
- 41
- THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING COA INFRASTRUCTURE (C & G, PAVING, ETC.) DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.
- 42
- ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 43
- STATIONS OF STORM DRAIN INLETS ARE TO THE CENTER OF GRATE UNLESS OTHERWISE NOTED ON THE PLANS.
- 44
- SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.
- 45
- THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.
- 46
- ALL STORM DRAIN AND CONNECTOR PIPE WILL BE EITHER DUCTILE IRON, CLASS 250 OR HIGH DENSITY POLYETHYLENE PLASTIC PIPE. CONTRACTOR SHALL CONFORM TO ALL SPECIFICATIONS OF THE MANUFACTURER FOR THE INSTALLATION OF THE DUCTILE IRON OR PLASTIC STORM DRAIN PIPE. REFER TO SECTION 121 OF THE CITY OF ALBUQUERQUE STANDARDS FOR PLASTIC PIPE ANS SECTION 129 FOR THE DUCTILE IRON PIPE.
- 47
- THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.
- 48
- CONTRACTOR WILL SURVEY AND LOG EXISTING ELEVATIONS OF CURB-AND-GUTTER, SIDEWALK, AND PAVEMENT TO ELEVATIONS PRIOR TO REMOVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
- 49
- CONTRACTOR WILL CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS DIRECTED BY THE COA ENGINEER TO PROVIDE ACCESS TO LOCAL BUSINESS, ETC. TEMPORARY PAVEMENT SHALL BE REMOVED AND DISPOSED OF PRIOR TO PLACEMENT OF FULL WIDTH PAVEMENT SECTION. TEMPORARY PAVING SHALL BE PER COA STD. DWG. 2415 AND PAID FOR PER COA STD. SPECIFICATIONS.
- 50
- ALL CLASSES OF SEEDING SHALL BE DRY LAND MIX PLACED AT 1.5 LBS/1000 S.F. WITH FERTILIZER 21-12-12 PLACED AT 5 LBS/1000 S.F.
- 51
- PRE-WETTING OF THE EMBANKMENT FOUNDATION AND KEY TRENCH SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE EMBANKMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
- 52
- ALL ASPHALTIC CONCRETE SHALL BE MINIMUM 1800 LB. STABILITY AND COMPACTED TO 95% MODIFIED MARSHALL DENSITY UNLESS OTHERWISE NOTED ON THE PLANS.
- 53
- ALL RIP-RAP MATERIAL USED ON THIS PROJECT SHALL BE A NATURAL ROCK MATERIAL CONFORMING TO THE SIZE AND MATERIAL PROPERTY REQUIREMENTS SET FORTH IN THE COA STANDARD SPECIFICATIONS. NO BROKEN CONCRETE OR RUBBLE WILL BE ACCEPTED.
- 54
- HIGH DENSITY POLYETHLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321 WITH THE EXCEPTION THAT THE MINIMUM COVER IN AREAS WITH VEHICULAR TRAFFIC SHALL BE ONE FOOT.

EXISTING FEATURES LEGEND:

- 
- EXISTING CHAIN-LINK FENCE
- 
- EXISTING GAS LINE W/ VALVE
- 
- EXISTING WATERLINE W/ VALVE
- 
- EXISTING WATERLINE METER
- 
- EXISTING FIRE HYDRANT
- 
- EXISTING SANITARY SEWER LINE W/ MANHOLE
- 
- EXISTING STROM DRAIN
- 
- EXISTING UTILITY POLE
- 
- EXISTING 1' CONTOUR
- 
- EXISTING 5' CONTOUR
- 
- EXISTING CURB & GUTTER
- 
- EXISTING CONCRETE
- 
- EXISTING BUILDING LINE
- 
- EXISTING EASEMENT LINE

NEW FEATURES LEGEND:

- 
- CONSTRUCTION CENTERLINE
- 
- NEW CHAIN-LINK FENCE
- 
- NEW GAS LINE W/ VALVE
- 
- NEW WATERLINE W/ VALVE
- 
- NEW WATERLINE METER
- 
- NEW FIRE HYDRANT
- 
- NEW SANITARY SEWER LINE W/ MANHOLE
- 
- NEW STROM DRAIN
- 
- NEW UTILITY POLE
- 
- NEW 1' CONTOUR
- 
- NEW 5' CONTOUR
- 
- NEW CURB & GUTTER
- 
- NEW CONCRETE
- 
- NEW EASEMENT LINE
- 
- POT HOLE LOCATION W/ NO.
- 
- NEW EDGE OF PAVEMENT

POTHOLING INFORMATION

| NO. | BURY TO TOP OF PIPE | DESCRIPTION |          |          |
|-----|---------------------|-------------|----------|----------|
|     |                     | UTILITY     | MATERIAL | DIAMETER |
| 1   | 1'-10"              | GAS         | METALLIC | 2"       |
| 2   | 1'-10"              | GAS         | METALLIC | 2"       |
| 3   | 2'-5"               | WATER       | METAL    | 1 1/4"   |
| 4   | 11"                 | WATER       | METAL    | 1"       |
| 5   | 4'-8"               | SAS         | CONCRETE | 12"      |
| 6   | 3'-2"               | WATER       | PVC      | 6"       |
| 7   | 1'-10"              | WATER       | PVC      | 2"       |
| 8   | 2'-0"               | WATER       | PVC      | 2"       |
| 9   | 3'-0"               | WATER       | PVC      | 6"       |
| 10  | 11"                 | GAS         | METAL    | 2"       |
| 10A | 9"                  | GAS         | METAL    | 1"       |
| 11  | 3'-8"               | WATER       | METAL    | 4"       |
| 11A | 3'-4"               | WATER       | COPPER   | 1"       |
| 12  | 2'-5"               | GAS         | METAL    | 2"       |
| 12A | 2'-3"               | GAS         | METAL    | 1"       |
| 13  | 3'-11"              | WATER       | COPPER   | 1/2"     |

SYSTEM 'A' CONSTRUCTION CENTERLINE SURVEY CONTROL INFORMATION

| STATION  | NORTHING     | EASTING    |
|----------|--------------|------------|
| 10+00.00 | 1,477,637.04 | 380,835.14 |
| 13+06.40 | 1,477,609.32 | 381,140.29 |
| 15+24.66 | 1,477,534.28 | 381,345.25 |
| 17+14.64 | 1,477,522.80 | 381,534.88 |

SYSTEM 'B' CONSTRUCTION CENTERLINE SURVEY CONTROL INFORMATION

| STATION  | NORTHING     | EASTING    |
|----------|--------------|------------|
| 10+00.00 | 1,477,538.02 | 380,511.37 |
| 12+31.17 | 1,477,519.08 | 380,741.76 |
| 13+81.61 | 1,477,637.04 | 380,835.14 |
| 14+18.93 | 1,477,666.30 | 380,858.30 |
| 15+96.27 | 1,477,839.82 | 380,894.87 |

LOCAL SURVEY CONTROL INFORMATION

| POINT NUMBER | NORTHING     | EASTING    | ELEVATION | DESCRIPTION                   |
|--------------|--------------|------------|-----------|-------------------------------|
| CP-1         | 1,477,481.07 | 381,524.76 | 4958.02   | MASONRY NAIL IN SIDEWALK JNT. |
| CP-2         | 1,477,589.63 | 381,218.12 | 4950.03   | REBAR W/ CAP "NM 11599"       |
| CP-3         | 1,477,839.49 | 380,892.98 | 4947.73   | REBAR W/ CAP "NM 11599"       |
| CP-4         | 1,477,636.12 | 380,844.18 | 4945.91   | REBAR W/ CAP "NM 11599"       |
| CP-5         | 1,477,526.86 | 380,749.72 | 4945.31   | REBAR W/ CAP "NM 11599"       |
| CP-6         | 1,477,530.65 | 380,509.97 | 4944.02   | PK NAIL IN ASPHALT            |

198683  
Smith Engineering Company  
A Full Service Engineering Company  
6000 Optima Boulevard, N.E. Suite 6000 Albuquerque, New Mexico 87120

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: ETHLYN AVENUE IMPROVEMENTS  
GENERAL NOTES, LEGEND, & SURVEY CONTROL

Design Review Committee

City Engineer Approval

Last Design Update

No. / Day / Yr.

No. / Day / Yr.

DESIGNED BY

DRAWN BY

CHECKED BY

MUR

MUR

CTB

DATE

DATE

DATE

1/00

1/00

1/00

City Project No.

5744.90

Zone Map No.

L-14

Sheet

2

Of

10

AS-BUILT INFORMATION

BENCH MARKS

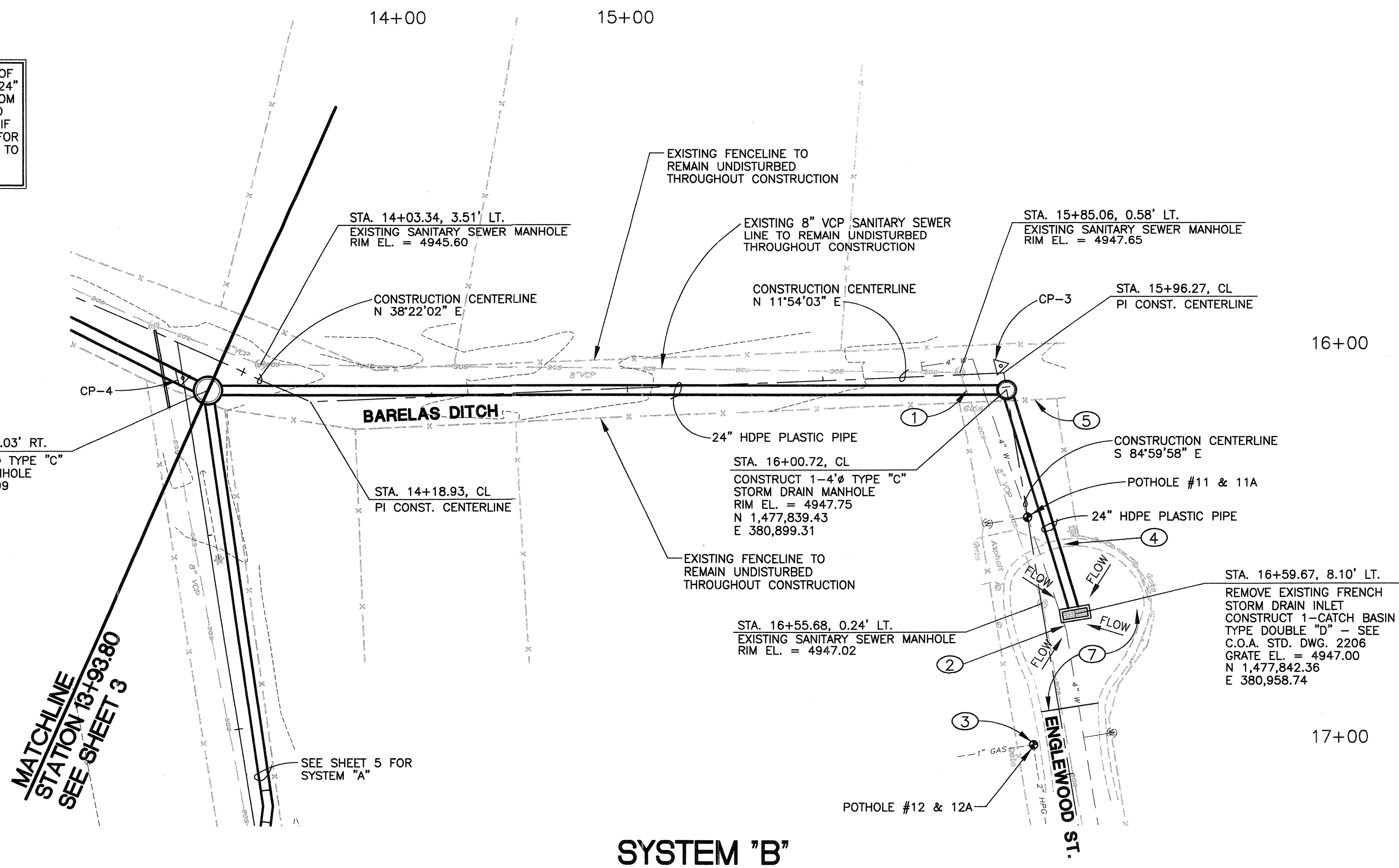
SURVEY INFORMATION

ENGINEERS SEAL

|                        |      |     |             |           |             |      |
|------------------------|------|-----|-------------|-----------|-------------|------|
| CONTRACTOR             | DATE | NO. | BY          | REMARKS   | DESIGNED BY | DATE |
| WEEK                   | DATE | 1   | STEVE TOLER | REVISIONS | MUR         | 1/00 |
| INSPECTOR'S            | DATE |     |             | DESIGN    |             |      |
| FIELD ENGINEER         | DATE |     |             |           |             |      |
| VERIFICATION BY        | DATE |     |             |           |             |      |
| CORRECTED BY           | DATE |     |             |           |             |      |
| MICRO-FILM INFORMATION |      |     |             |           |             |      |
| RECORDED BY            | DATE |     |             |           |             |      |
| NO.                    |      |     |             |           |             |      |



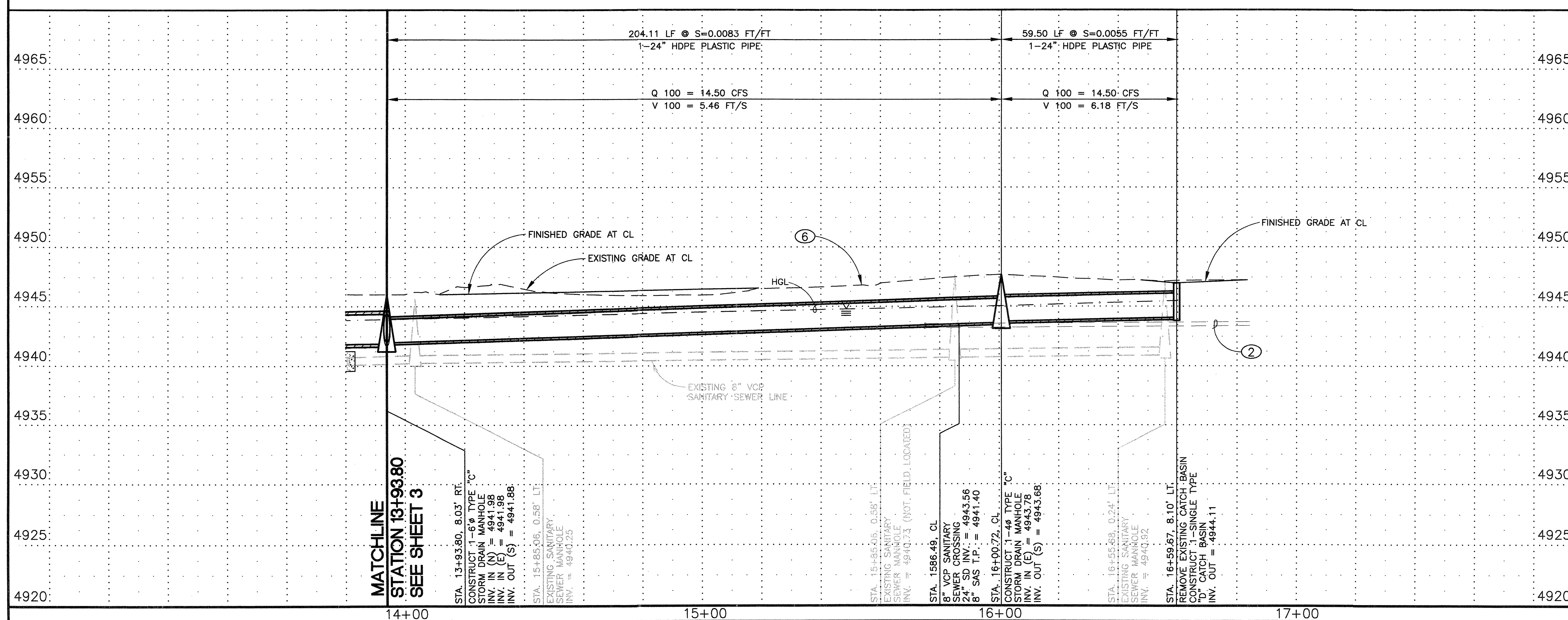
NOTE: THE MINIMUM AMOUNT OF COVER IS AVAILABLE FOR THE 24" PLASTIC STORM DRAIN PIPE FROM MANHOLE AT STA. 16+00.72 TO MANHOLE AT STA. 12+32.21. IF FUTURE TRAFFIC IS DESIGNED FOR THIS AREA, GRADES WILL NEED TO BE ADJUSTED TO PROTECT THE STORM DRAIN SYSTEM.



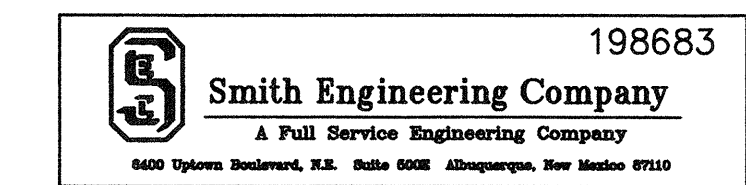
### KEYED NOTES:

- NO ENCASEMENT REQUIRED AT THIS LOCATION. VERTICAL SEPERATION OF 24" IS ACCEPTABLE.
- RELOCATE EXISTING 4" WATERLINE (IF REQUIRED) TO THE MAXIMUM LIMIT AVAILABLE WITHIN THE TRENCH FOR THE STORM DRAIN INSTALLATION.
- APPROXIMATE LOCATION OF GASLINE STUB. CONTRACTOR SHALL VERIFY BEFORE CONSTRUCTION.
- REMOVE AND REPLACE A MAXIMUM OF 10 LF OF CURB & GUTTER EXISTING DRIVEPAD SHALL REMAIN UNDISTURBED.
- REMOVE AND RESTORE 25 LF OF EXISTING CHAIN-LINK FENCE AND GATE.
- FILL TRENCH AND REGRADE TO A MINIMUM OF 1' OF COVER OVER NEW STORM DRAIN PIPE.
- CONTRACTOR SHALL REMOVE ALL RESIDENTIAL PAVEMENT FROM THE PC OF THE CUL-DE-SAC AND REPLACE WITH THE SAME. REGRADE ENTIRE AREA TO SLOPE INTO THE NEW INLET. EXISTING CURB AND GUTTER SHALL REMAIN UNDISTURBED. CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENTS THROUGHOUT CONSTRUCTION.

NOTE: LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN SET ARE APPROXIMATE AND WERE OBTAINED FROM DESIGN SURVEY INFORMATION, AS-BUILTS AND POT HOLLING. OTHER EXISTING UTILITIES MAY EXIST IN THE WORK AREAS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD LOCATE ALL EXISTING UTILITIES SHOWN ON PLANS PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHOWN ON THE PLANS DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES LISTED ON SHEET 1 OF THIS PLAN SET PRIOR TO CONSTRUCTION FOR AID IN LOCATING ANY EXISTING UTILITIES.



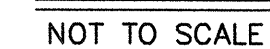
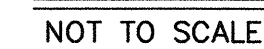
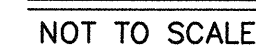
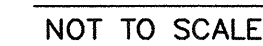
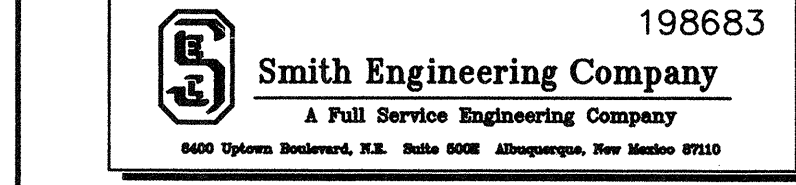
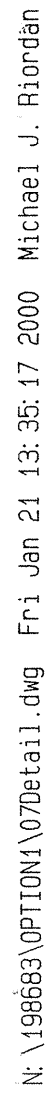
| AS-BUILT INFORMATION |                 |      |      | BENCH MARKS                             |                       |      |      | SURVEY INFORMATION |                   |      |      | ENGINEER'S SEAL |  |  |  |
|----------------------|-----------------|------|------|-----------------------------------------|-----------------------|------|------|--------------------|-------------------|------|------|-----------------|--|--|--|
| CONTRACTOR           | WORK STARTED BY | DATE | DATE | ACS CONTROL STA. "13-14"                | 3-1/4" AL CAP IN CURB | DATE | DATE | NO.                | BY                | DATE | DATE |                 |  |  |  |
|                      | ASSISTED BY     | DATE | DATE | NEW MEXICO STATE PLANE COORDINATES      |                       | 5/99 |      | 1                  | STEVE TOLER       | 5/99 |      |                 |  |  |  |
|                      | FIELD ENGINEER  | DATE | DATE | N=1,477,623.21                          |                       |      |      |                    | SURVEYING CONTROL |      |      |                 |  |  |  |
|                      | REVISION BY     | DATE | DATE | E=381,928.31                            |                       |      |      |                    | INC.              |      |      |                 |  |  |  |
|                      | CORRECTED BY    | DATE | DATE | DELTA ALPHA = -0013'36"                 |                       |      |      |                    |                   |      |      |                 |  |  |  |
|                      |                 | DATE | DATE | GROUND TO GRID FACTOR = 0.998679428     |                       |      |      |                    |                   |      |      |                 |  |  |  |
|                      |                 | NO.  |      | NMSP COORDINATES - CENTRAL ZONE, NAD 27 |                       |      |      |                    |                   |      |      |                 |  |  |  |



|                                                                                                    |                             |
|----------------------------------------------------------------------------------------------------|-----------------------------|
| CITY OF ALBUQUERQUE<br>PUBLIC WORKS DEPARTMENT<br>ENGINEERING DEVELOPMENT GROUP                    |                             |
| TITLE: <b>ETHLYN AVENUE IMPROVEMENTS<br/>PLAN &amp; PROFILE: SYSTEM "B" STA. 13+93.80 TO 17+00</b> |                             |
| Design Review Committee                                                                            | City Engineer Approval      |
| Last Design Update                                                                                 |                             |
| City Project No. <b>5744.90</b>                                                                    |                             |
| Zone Map No. <b>L-14</b>                                                                           | Sheet <b>4</b> Of <b>10</b> |





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|                                                                                                                                |                                      |                                  |                               |                     |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------|-------------------------------|---------------------|
| <p align="center"><b>CITY OF ALBUQUERQUE</b><br/> <b>PUBLIC WORKS DEPARTMENT</b><br/> <b>ENGINEERING DEVELOPMENT GROUP</b></p> |                                      |                                  |                               |                     |
| <p><b>TITLE: ETHLYN AVENUE IMPROVEMENTS</b></p> <p align="center"><b>DETAIL SHEET</b></p>                                      |                                      |                                  |                               |                     |
| <p><b>Design Review Committee</b></p>                                                                                          | <p><b>City Engineer Approval</b></p> | <p><b>Last Design Update</b></p> | <p><b>No. / Day / Yr.</b></p> |                     |
|                                                                                                                                |                                      |                                  |                               |                     |
|                                                                                                                                |                                      |                                  |                               |                     |
|                                                                                                                                |                                      |                                  |                               |                     |
|                                                                                                                                |                                      |                                  |                               |                     |
| <p><b>City Project No. 5744.90</b></p>                                                                                         |                                      | <p><b>Zone Map No. L-14</b></p>  | <p><b>Sheet 7</b></p>         | <p><b>Of 10</b></p> |

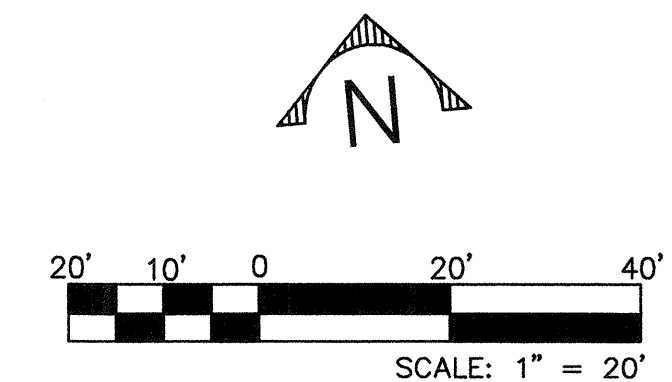
17+00

1. HIGH POINT RIDGE
2. SEE SHEET 2 FOR CONTROL POINT INFORMATION.



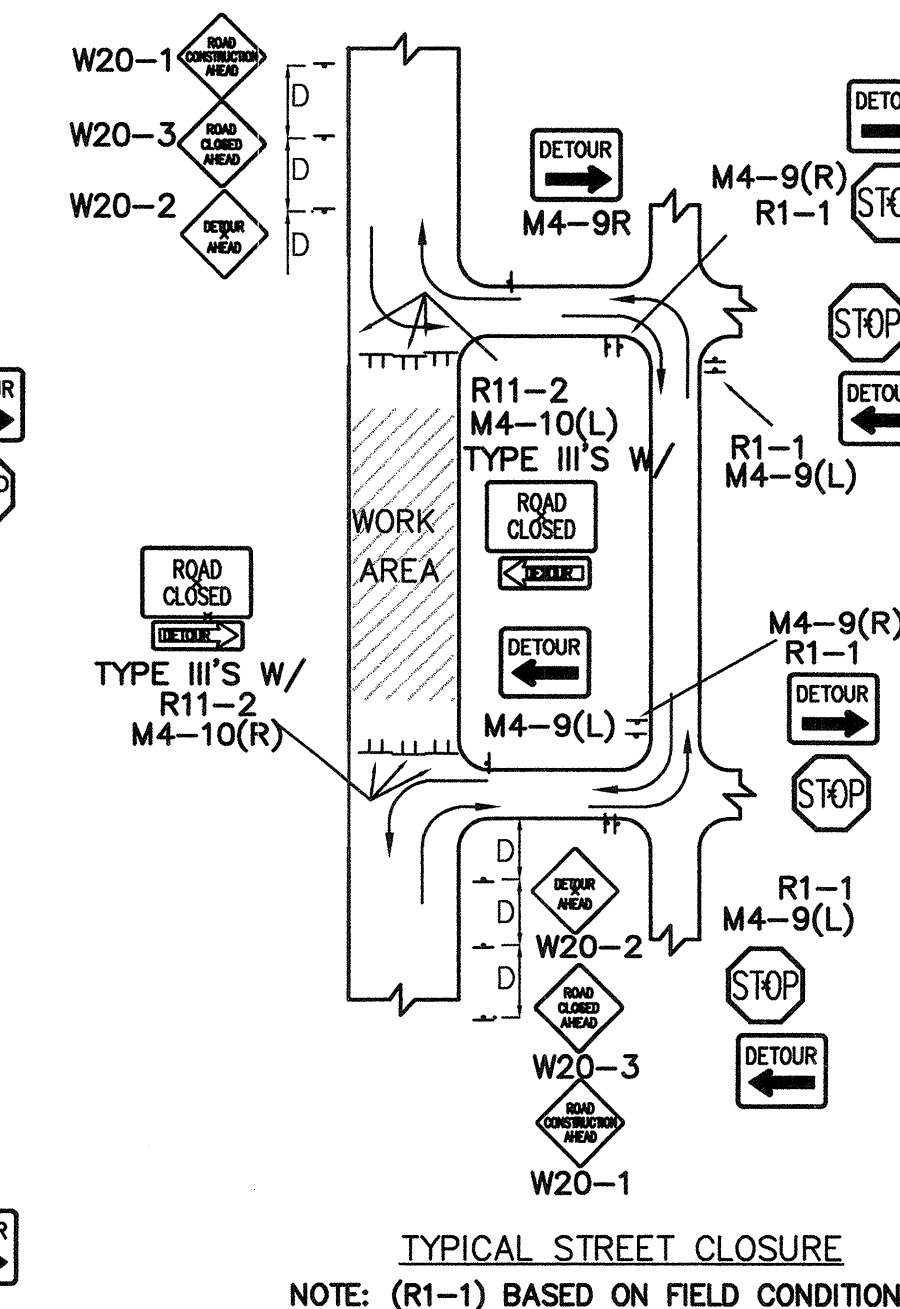
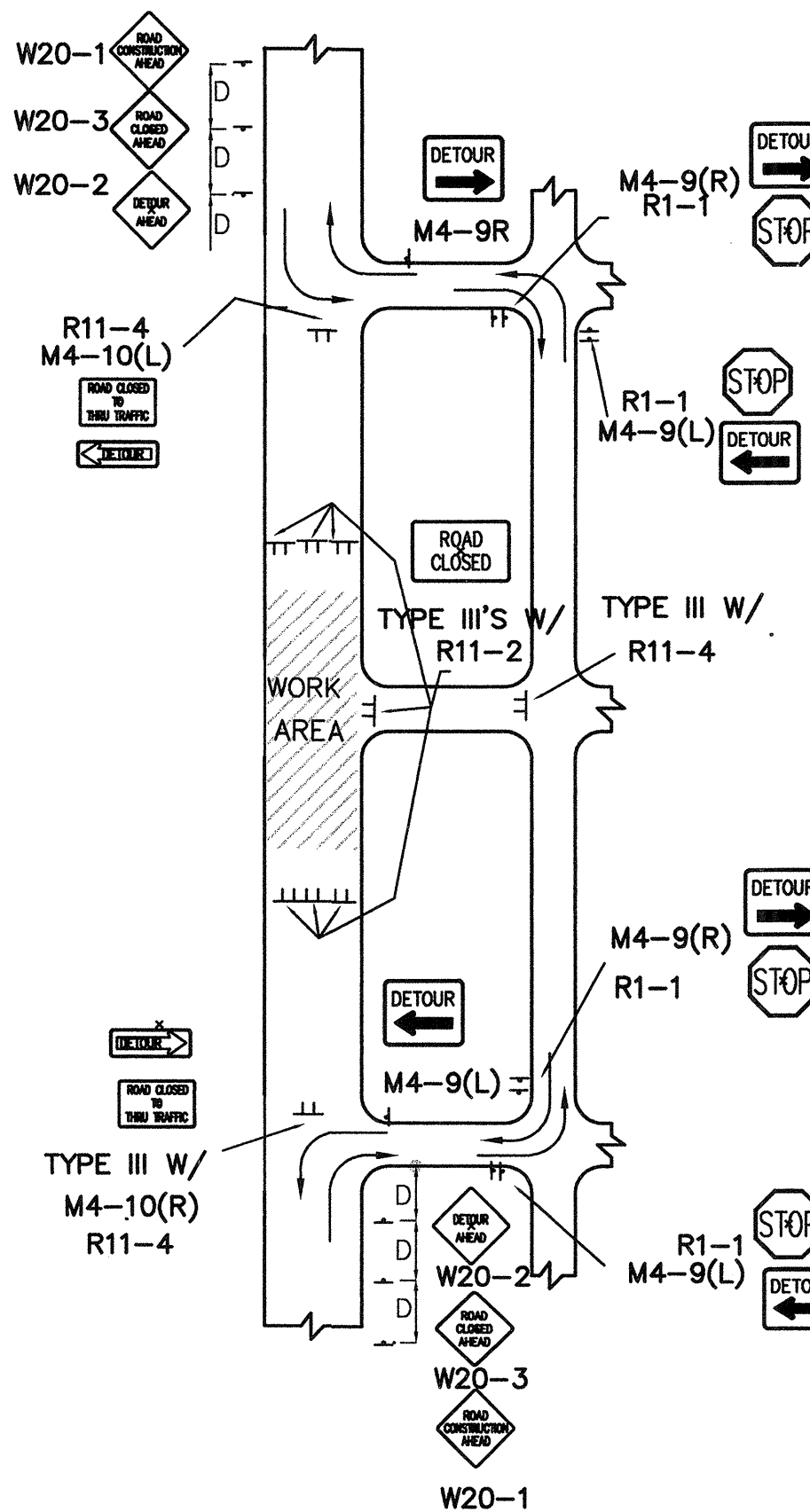
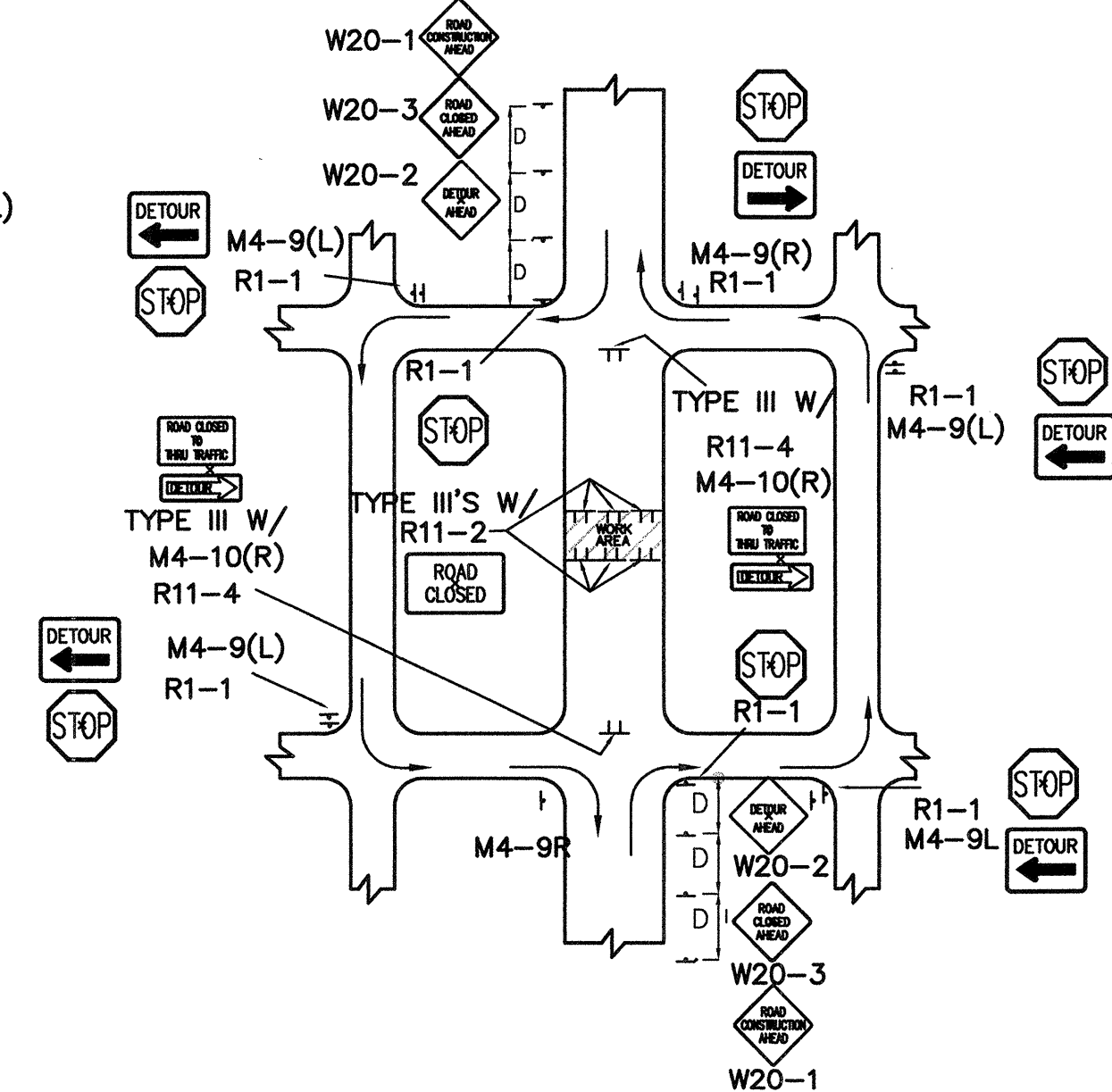
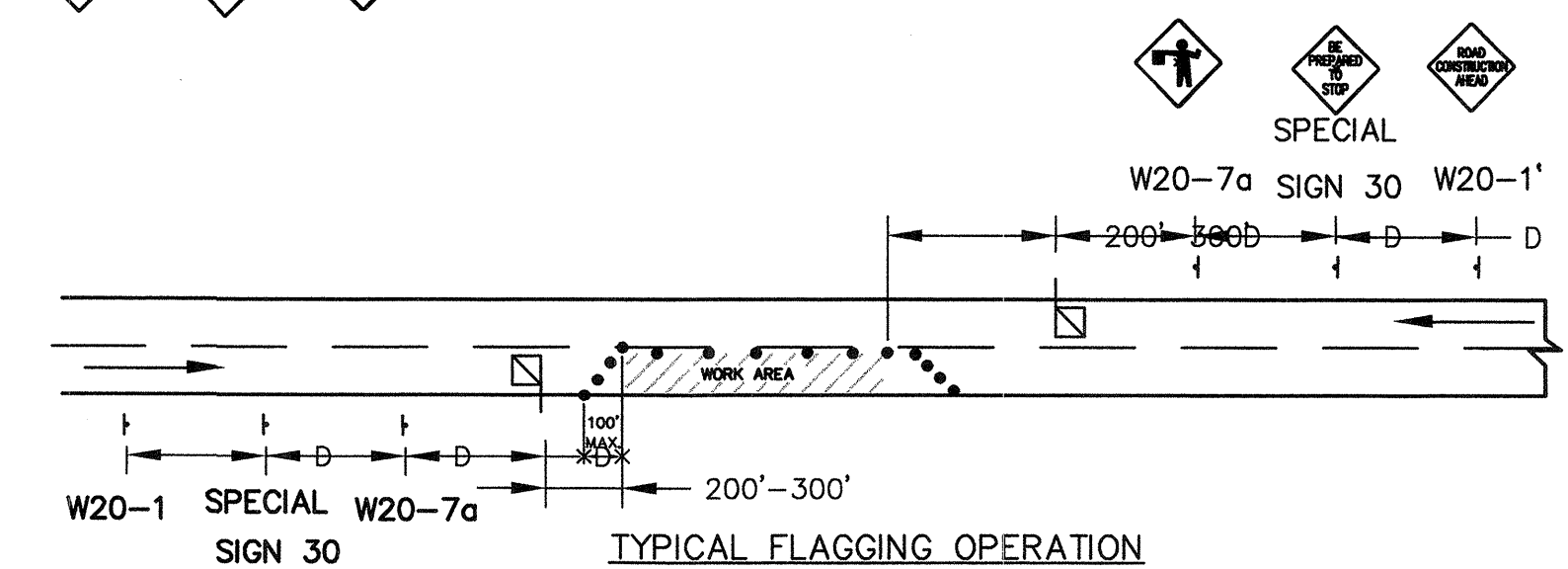
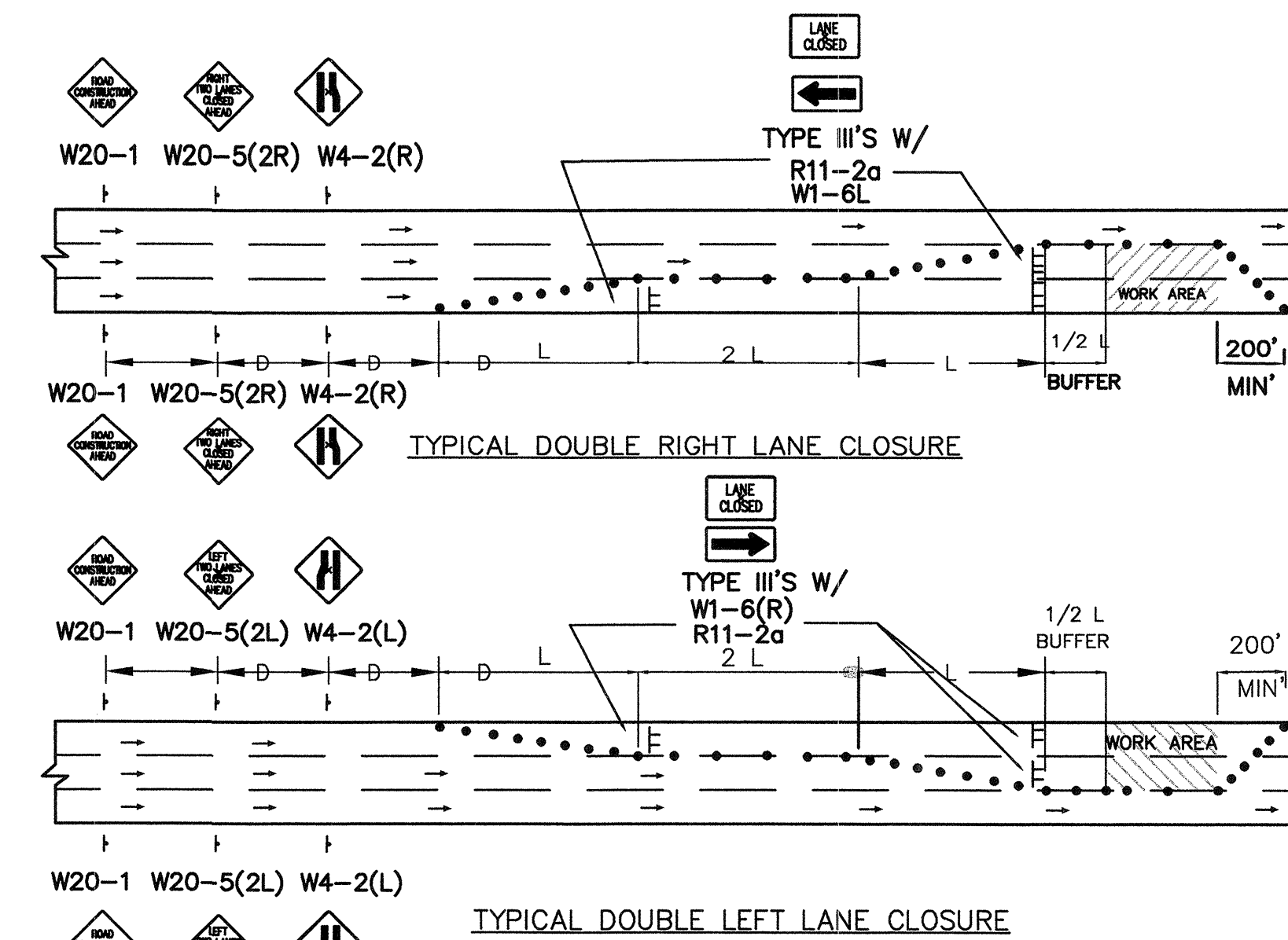
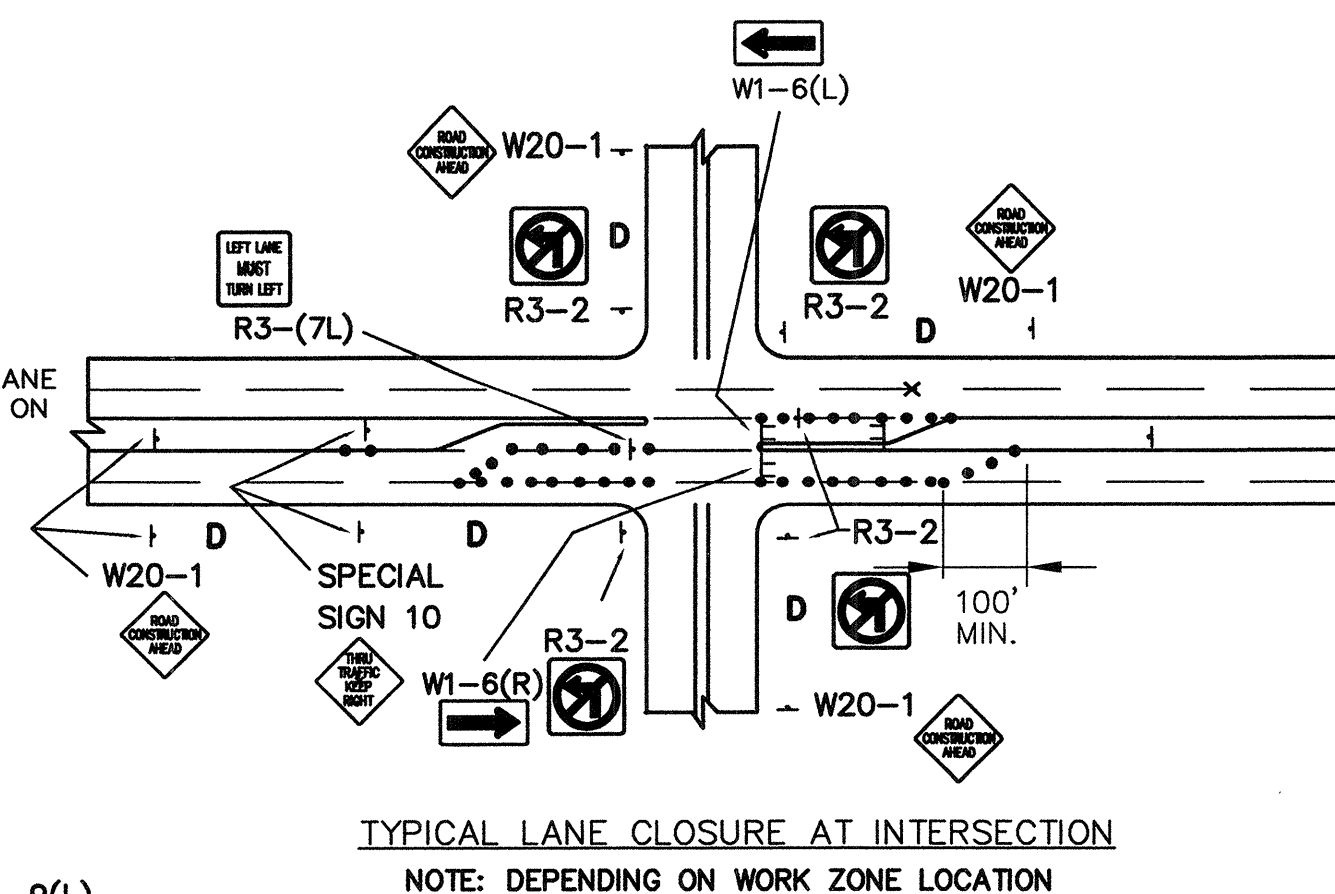
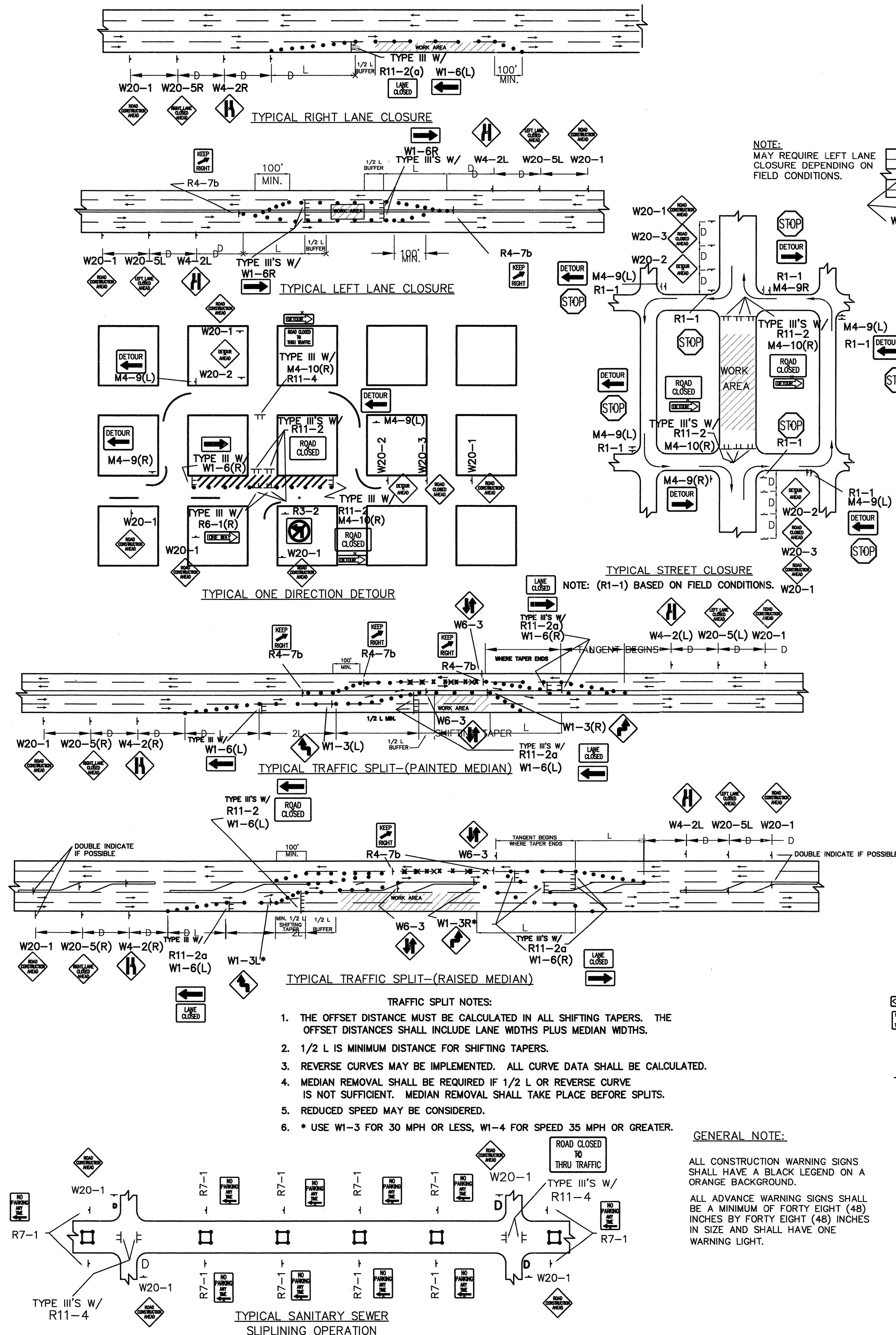
\* NOTE: THESE ELEVATIONS WILL BE DETERMINED BY USING THE EXISTING JOHN ST. ELEVATIONS PLUS A 2.0% SLOPE FOR FOUR (4) FEET PER ADA STANDARDS.

| NO. | DELTA ANGLE | RADIUS | LEN.  | TAN.  | CHORD BEARING | L.C.  |
|-----|-------------|--------|-------|-------|---------------|-------|
| 1   | 15°09'43"   | 159.13 | 42.11 | 21.18 | S 78°23'17" E | 41.95 |
| 2   | 16°05'09"   | 151.00 | 42.39 | 21.34 | S 77°55'34" E | 42.28 |
| 3   | 16°05'09"   | 149.00 | 41.83 | 21.05 | S 77°55'34" E | 41.61 |
| 4   | 16°05'09"   | 140.88 | 39.55 | 19.91 | S 77°55'34" E | 39.48 |
| 5   | 11°05'02"   | 108.38 | 20.97 | 10.52 | S 76°20'57" E | 20.95 |
| 6   | 12°00'28"   | 119.00 | 24.94 | 12.52 | S 75°53'14" E | 24.88 |
| 7   | 12°00'28"   | 121.00 | 25.36 | 12.73 | S 75°53'14" E | 25.37 |
| 8   | 12°00'28"   | 132.62 | 27.79 | 13.95 | S 75°53'14" E | 27.78 |
| 9   | 04°38'39"   | 107.37 | 8.70  | 4.35  | S 84°12'47" E | 8.70  |
| 10  | 04°38'39"   | 119.00 | 9.65  | 4.83  | S 84°12'47" E | 9.64  |
| 11  | 04°38'39"   | 121.00 | 9.81  | 4.91  | S 84°12'47" E | 9.81  |
| 12  | 04°38'39"   | 132.63 | 10.75 | 5.38  | S 84°12'47" E | 10.75 |
| 13  | 89°04'34"   | 24.38  | 37.90 | 23.99 | N 64°39'17" E | 34.18 |
| 14  | 90°55'26"   | 24.38  | 38.68 | 24.77 | S 25°20'43" E | 34.18 |



|                                                                                                                                                                                                                                                                   |  |                        |  |                    |                 |      |                 |          |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|--------------------|-----------------|------|-----------------|----------|------------|
|  <div> 198683<br/> <b>Smith Engineering Company</b><br/> A Full Service Engineering Company<br/> 8400 Uptown Boulevard, N.E. Suite 5008 Albuquerque, New Mexico 87110 </div> |  |                        |  |                    | NO.             | DATE | DESIGNED BY     | DRAWN BY | CHECKED BY |
|                                                                                                                                                                                                                                                                   |  |                        |  |                    |                 |      |                 |          |            |
| <p align="center"> <b>CITY OF ALBUQUERQUE</b><br/> <b>PUBLIC WORKS DEPARTMENT</b><br/> <b>ENGINEERING DEVELOPMENT GROUP</b> </p>                                                                                                                                  |  |                        |  |                    |                 |      |                 |          |            |
| <p> <b>TITLE:</b>                      <b>ETHLYN AVENUE IMPROVEMENTS</b><br/> <b>HORIZONTAL &amp; VERTICAL GEOMETRY PLAN</b> </p>                                                                                                                                 |  |                        |  |                    |                 |      |                 |          |            |
| Design Review Committee                                                                                                                                                                                                                                           |  | City Engineer Approval |  | Last Design Update | No. / Day / Yr. |      | No. / Day / Yr. |          |            |
|                                                                                                                                                                                                                                                                   |  |                        |  |                    |                 |      |                 |          |            |
|                                                                                                                                                                                                                                                                   |  |                        |  |                    |                 |      |                 |          |            |
|                                                                                                                                                                                                                                                                   |  |                        |  |                    |                 |      |                 |          |            |
|                                                                                                                                                                                                                                                                   |  |                        |  |                    |                 |      |                 |          |            |
| City Project No.                                                                                                                                                                                                                                                  |  | Zone Map No.           |  | Sheet              | Of              |      |                 |          |            |
| 5744.90                                                                                                                                                                                                                                                           |  | L-14                   |  | 8                  | 10              |      |                 |          |            |

[illegible]

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N: \\198683\OPTION1\10Traf2.dwg Thu Jan 13 15:06:06 2000 Michael J. Riordan