

CONSTRUCTION PLANS
for
CENTURY THEATRES

ALBUQUERQUE 24
PUBLIC INFRASTRUCTURE
INDEX

SHEET DESCRIPTION
1 TITLE SHEET
2 SANITARY SEWER EXTENSION
3 PAN AMERICAN FRWY. PLAN & PROFILE STA. 10+00 TO 20+00
4 PAN AMERICAN FRWY. PLAN & PROFILE STA. 20+00 TO 26+08.64
5 WATER LINE EXTENSION, MISC. PAVING AND STORM SEWER
6 OFFICE BOULEVARD PLAN & PROFILE STA. 1+56 TO 11+00
7 OFFICE BOULEVARD PLAN & PROFILE STA. 11+00 TO 14+57.41
8 TRAFFIC CONTROL PLAN
9 DETAILS

CONSTRUCTION NOTES:

GENERAL NOTES:

- 1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE BUILT ACCORDING TO THE LATEST EDITION OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ALL WORK WITHIN THE NMSHTD RIGHT-OF-WAY (EXCEPT SAS INSTALLATION) SHALL BE BUILT ACCORDING TO THE STANDARD SPECIFICATION FOR HIGHWAY & BRIDGE CONSTRUCTION, 1994 EDITION.
- 2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT THE LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- 5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY COMPANY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES TO REMAIN WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

- 7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
- 8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- 9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION, NMSHTD PERMITS, ETC.)
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- 11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- 12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- 13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- 14. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY CONTRACTOR WITH PLASTIC STRIPING AND IN KIND WITH REGARD TO LOCATION.

- 15. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.
- 16. CONTRACTOR SHALL NOTIFY THE NMSHTD DISTRICT 3 ENGINEER NOT LESS THAN TWO (2) WORKING DAYS PRIOR TO STARTING WORK WITHIN THE NMSHTD RIGHT-OF-WAY AND SUBMIT A DETAILED CONSTRUCTION SCHEDULE.

PAVING NOTES:

- 1. ALL PAVEMENT TO BE REMOVED SHALL BE SAW CUT, HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.
- 2. WHEN ABUTTING NEW CURB & GUTTER TO EXISTING PAVEMENT, A 1' WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE NEATLY SAW CUT, REMOVED, AND REPLACED.
- 3. CONTRACTOR SHALL BUILD ALL CURB AND GUTTER PER COA STD DWG. 2415, STANDARD CURB AND GUTTER, UNLESS OTHERWISE NOTED.
- 4. CONTRACTOR SHALL BUILD ALL SIDEWALK PER COA STD DWG. 2430, UNLESS OTHERWISE NOTED.
- 5. PAVING AND ROADWAY GRADES SHALL BE ±0.05' FROM ELEVATIONS SHOWN ON PLAN.

GRADING NOTES:

- 1. THE CONTRACTOR MUST CONFORM TO ALL COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS, PERMITS AND APPROVALS. THE COST FOR REQUIRED MEASURES SHALL BE INCIDENTAL TO THE PROJECT COSTS.
- 2. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE PROPERTY LINES PER DETAIL 4 ON SHEET 7 AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.
- 3. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

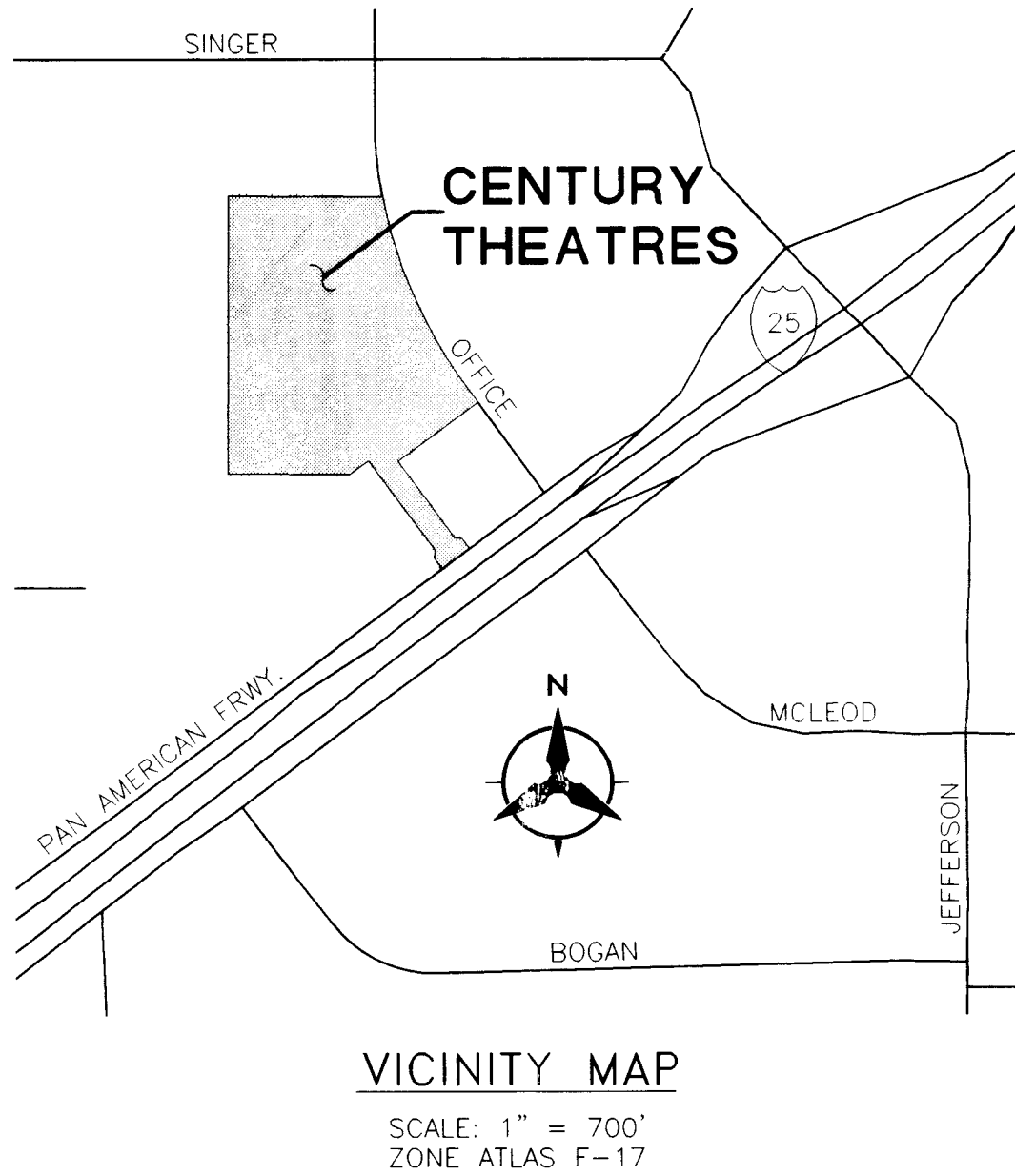
TRAFFIC CONTROL NOTES:

- 1. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION SEE SECTION 19 OF THE STANDARD SPECIFICATIONS.

AS-BUILT CERTIFICATION

I, Thomas G. Klingenhagen, New Mexico Professional Land Surveyor No. 5978, do hereby certify that the as-built information (hand-lettered) shown hereon is the result of a field survey performed by me, or under my direct supervision, and that the same is true and correct.

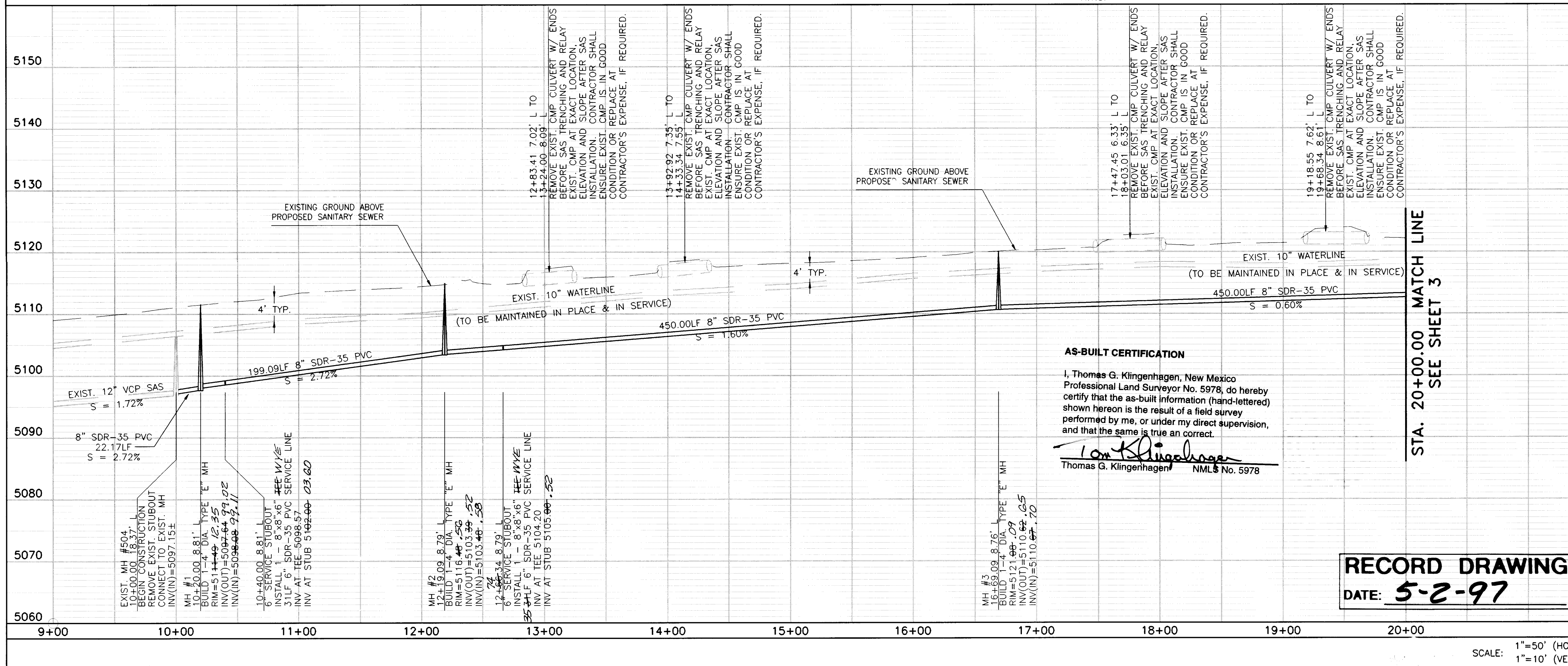
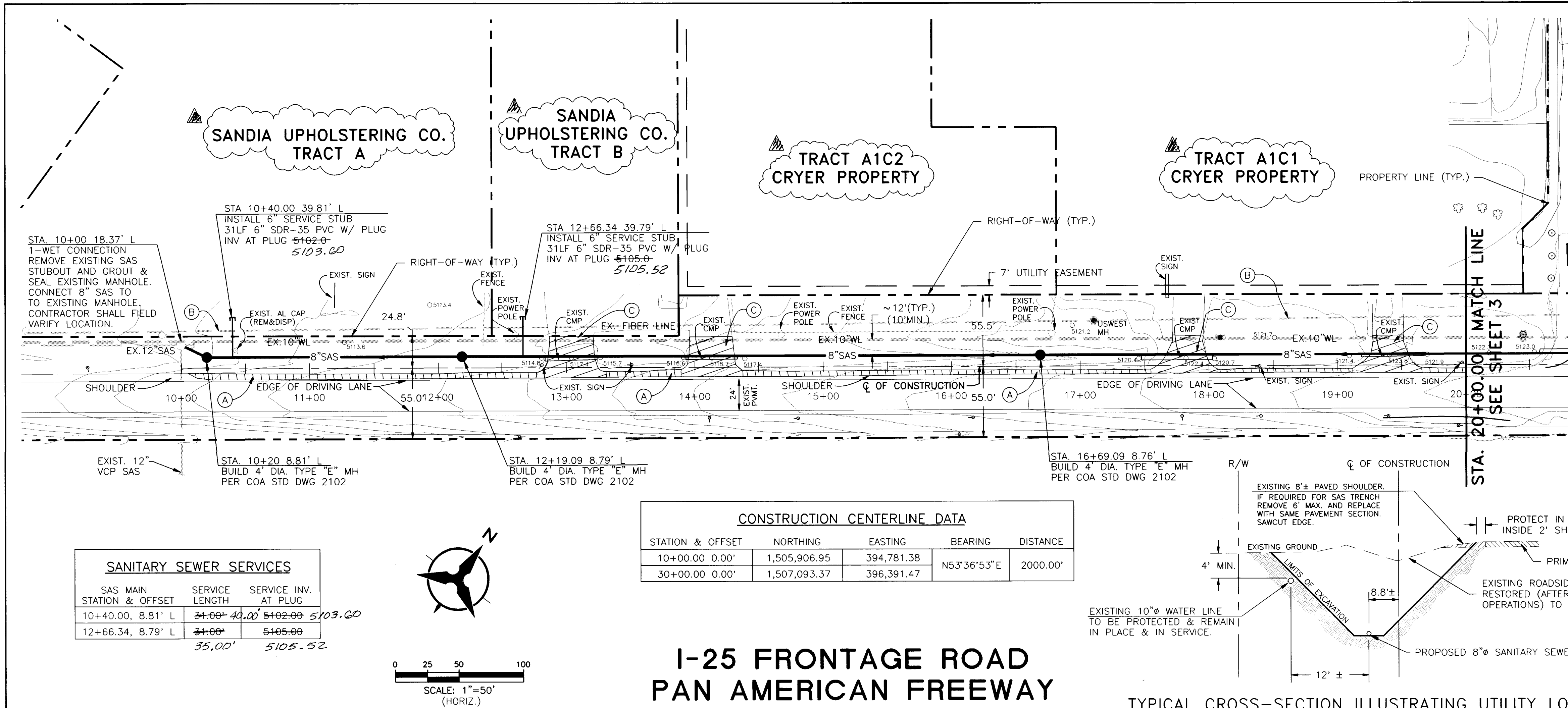
Thomas G. Klingenhagen NMLS No. 5978

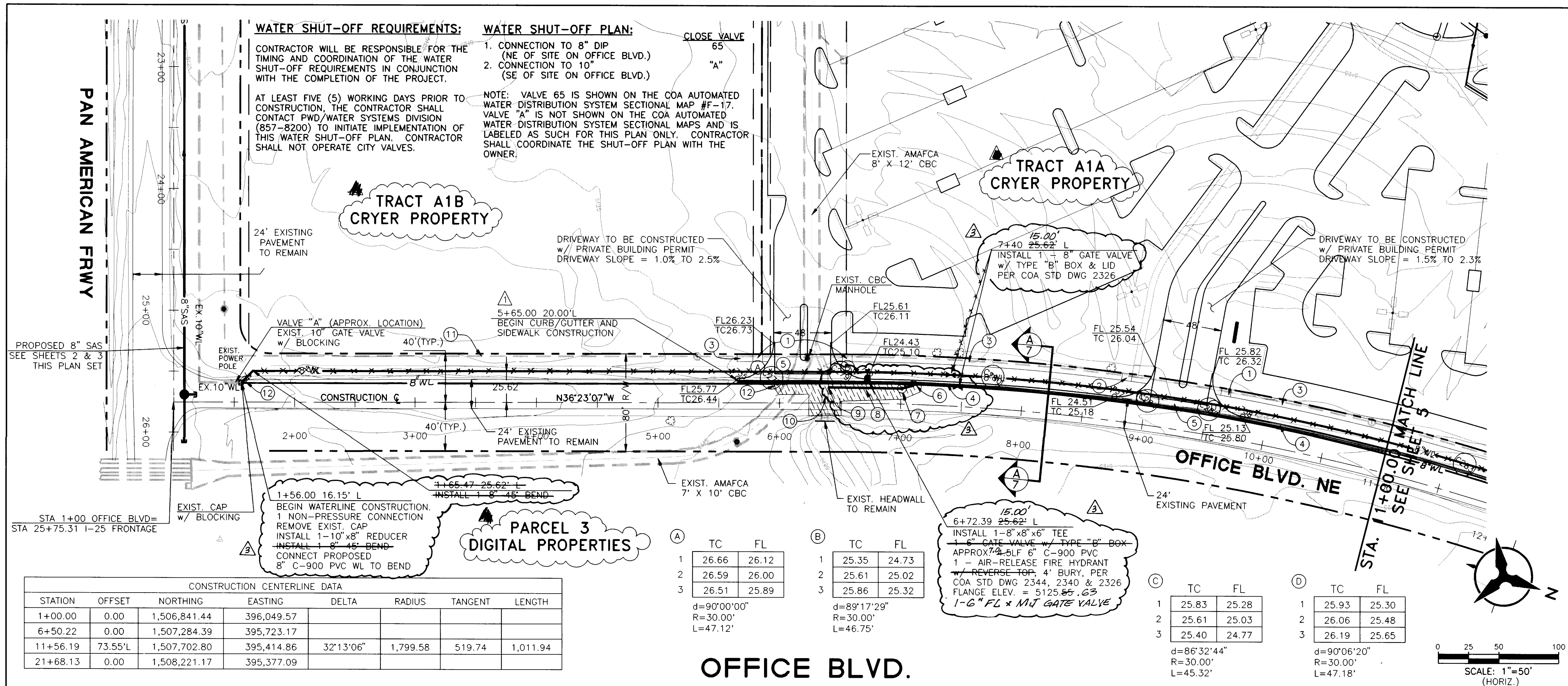


- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 - ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
 - ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
 - ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
 - ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
 - ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
 - ☐ THE REQUESTER OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

RECORD DRAWING
DATE: 5-2-97

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****	APPROVED FOR CONSTRUCTION		
	DRC Chairman	Bill... 3/11/97	1-11-97				
	Transportation	John... 1-11-97	1-11-97				
	Water/Wastewater	John... 1-11-97	1-11-97				
	Hydrology	John... 1-11-97	1-11-97				
	Parks	John... 1-11-97	1-11-97				
Const. Mngmt.							
NMUI							
CITY PROJECT NO.	DRB CASE NO.	SHEET	OF				
5347.90	95-535	1	7				





CONSTRUCTION NOTES

- CONTRACTOR SHALL USE MINIMUM TRENCH SIZE REQUIRED BY OSHA AND OTHER APPLICABLE AGENCIES. ONLY OBSTRUCTIONS WITHIN TRENCH PRISM MAY BE REMOVED. APPROVAL FROM ENGINEER AND OWNER OF OBSTRUCTION IS REQUIRED PRIOR TO THE REMOVAL OF OBSTRUCTION.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. COST OF USING TRENCH BOXES OR OTHER APPROVED METHODS OF INSTALLATION AS WELL AS PROTECTION OR RELOCATION OF ANY EXISTING UTILITY SHALL BE INCIDENTAL TO COST OF UTILITY INSTALLATION.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH LAND OWNERS ADJACENT TO CONSTRUCTION AREA FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION. AT LEAST ONE ACCESS TO BUSINESSES MUST BE MAINTAINED AT ALL TIMES.
- CONTRACTOR SHALL COMPLY WITH TRAFFIC CONTROL PLAN ON SHEET 6.

KEYED NOTES

- BUILD WHEELCHAIR RAMP PER DETAIL 7 SHEET 7.
- BUILD WHEELCHAIR RAMP PER DETAIL 6 SHEET 7.
- BUILD 6" WIDE 4" PCC SIDEWALK PER COA DWG 2430.
- SAWCUT & REMOVE EXIST. PAVEMENT 1' WIDE ADJACENT TO NEW LIP OF GUTTER. BUILD STANDARD CURB & GUTTER PER COA STD DWG 2415. REPLACE PAVEMENT PER COA STD DWG 2465, ARTERIAL/ COLLECTOR STREET WITH 4" ASPHALT-TREATED BASE COURSE (ADDITIONAL 2" REQUIRED).
- BUILD CURB RETURNS AND CONCRETE VALLEY GUTTER WITH PRIVATE ENTRANCE PER COA STD DWG 2426, WITHOUT FILLET. TRANSITION FROM STANDARD TO MEDIAN TYPE CURB AND GUTTER THROUGH RETURNS.
- STA. 7+10.00 19' L: BUILD 1-SGL TYPE "A" INLET PER COA STD DWG 2201 AND 2202, MODIFIED FOR WINGS ON BOTH SIDES. USE 10L 18" RCP CONN. PIPE. GRATE=5123.83. INVERT=5118.80. INV(OUT)=5118.33.
- STA. 7+00.63 45' L: BUILD 1-4" DIA. TYPE "E" MANHOLE PER COA STD DWG 2102. RIM=5124.33. INV(IN)=5118.80. INV(OUT)=5118.33.
- INSTALL 6" 18" RCP STORM PIPE.
- STA. 6+57.60 12' L: INSTALL 1-60"x60"x18" RCP TEE. INV(60")=5115.03. INV(18")=5116.21.
- REMOVE EXISTING 60" CMP AND REPLACE WITH 60" RCP AT EXACT LOCATION. INVERTS AND SLOPE. 60" LIP OF CMP REPLACED WITH RCP.
- EXISTING USWEST FIBER LINE IN CONDUIT TO REMAIN IN PLACE AND IN SERVICE. CONTRACTOR SHALL USE EXTREME CAUTION NEAR LINE.
- CONTRACTOR SHALL REPLACE PAVEMENT CUTS WITHIN WATERLINE AND STORM SEWER TRENCHES PER COA STD DWG 2465, ARTERIAL/COLLECTOR STREET, WITH 4" ASPHALT-TREATED BASE COURSE.

RESTRAINED JOINT TABLE

FITTING TYPE	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED			
	1"	4"	6"	8"
10"x8" REDUCER				
45" HORIZ. BEND				
45" VERT. BEND				
8"x8"x1.5" TEE	1'	1'	1'	33'
8"x8"x4" TEE				27', 2'
8"x8"x6" TEE				
8"x8"x8" TEE				
GATE VALVE			49'	65'

RESTRANT TABLE NOTES

- REDUCER REQUIRES RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH EXTENDING FROM FITTING ON SMALLER SIDE.
- HORIZONTAL BENDS REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ON BOTH SIDES OF FITTING.
- VERTICAL OFFSETS REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ON BOTH SIDES OF FITTING.
- VERTICAL OFFSETS REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ON BOTH SIDES OF FITTING.
- TEE FITTINGS REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ALONG BRANCH PIPE. CONTRACTOR SHALL ENSURE THAT 20' ALONG EACH RUN TO BE FREE OF JOINTS.
- IN-LINE VALVES REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ON BOTH SIDES OF FITTING.
- FIRE HYDRANTS REQUIRE RESTRAINT OF ALL JOINTS FROM MAIN TO MECHANICAL JOINT SHOE AT THE HYDRANT.
- ALL FITTINGS SHALL BE RESTRAINED AT EACH FLANGE.
- CONTRACTOR SHALL PROVIDE MINIMUM PIPE LENGTHS OF 20' WITHIN RESTRAINED LENGTH OF FITTINGS. ALL PIPE JOINTS WITHIN 20' OF A FITTING SHALL BE RESTRAINED AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL RESTRAIN ALL CAPS WITH PCC BLOCKING.

RESTRANT TABLE ASSUMPTIONS

ASTM SOIL CLASSIFICATION: SM (SAND SILT MIXTURE)
AWWA TRENCH TYPE: 5 TEST PRESSURE: 150 PSI
FACTOR OF SAFETY: 1.5 TO 1
DEPTH OF BURY: 4' TO TOP OF PIPE
LOW SIDE DEPTH (VERT. OFFSETS): 16' TO TOP OF PIPE

AS-BUILT CERTIFICATION

I, Thomas G. Klingenhagen, New Mexico Professional Land Surveyor No. 5978, do hereby certify that the as-built information (hand-lettered) shown hereon is the result of a field survey performed by me, or under my direct supervision, and that the same is true and correct.

Thomas G. Klingenhagen NMES No. 5978

RECORD DRAWING

DATE: 5-2-97

BOHANNAN-HUSTON INC.

ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WATERLINE EXTENSION & PAVEMENT IMPROVEMENT
OFFICE BOULEVARD

NO.	DATE	REVISIONS
1	5/18/97	RELOCATED WATERLINE TO THE EAST
2	5/27/97	ADDED TRACT/PARCEL NAMES.
3	12/12/98	REVISED OFFSETS OF FLOWLINE.

DESIGNED BY	DRAWN BY	CHECKED BY	DATE
KAREN BANKS	KAREN BANKS	JAMES TOPMILLER	10/96

CITY ENGINEER APPROVAL	MO./DAY/YR.

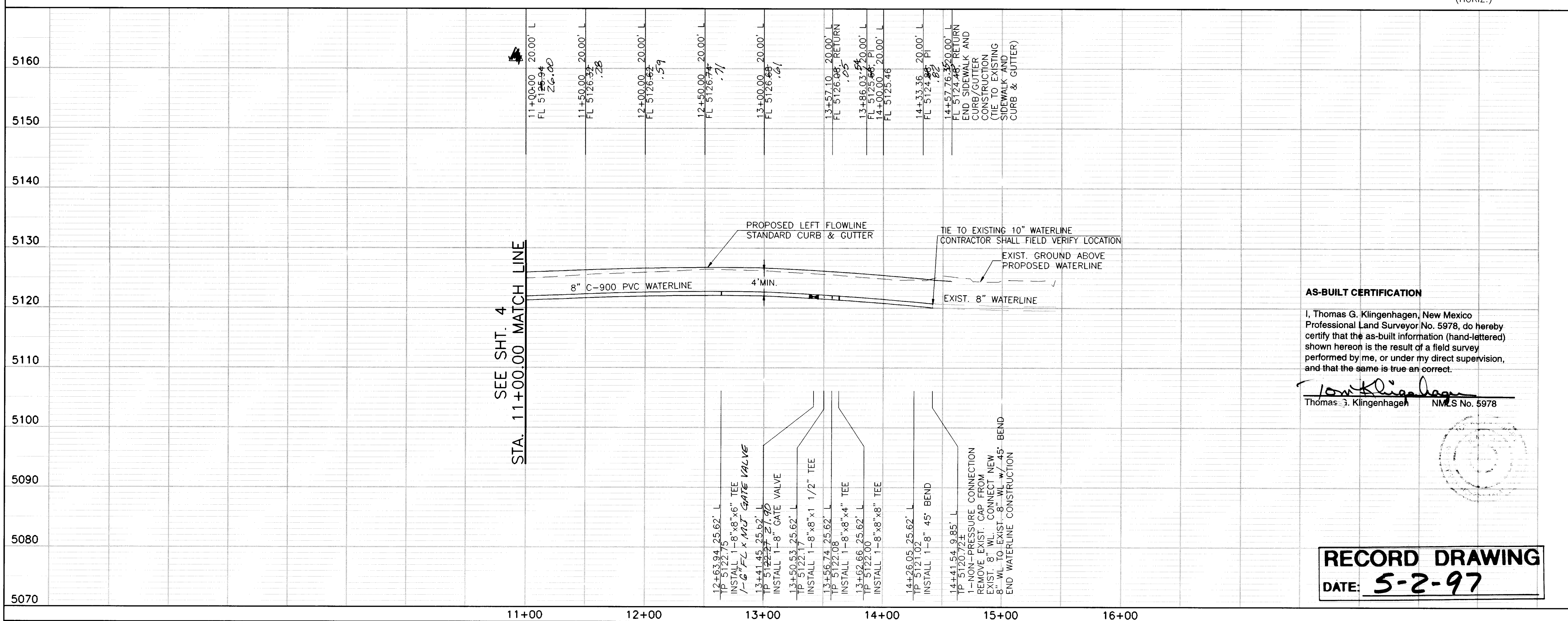
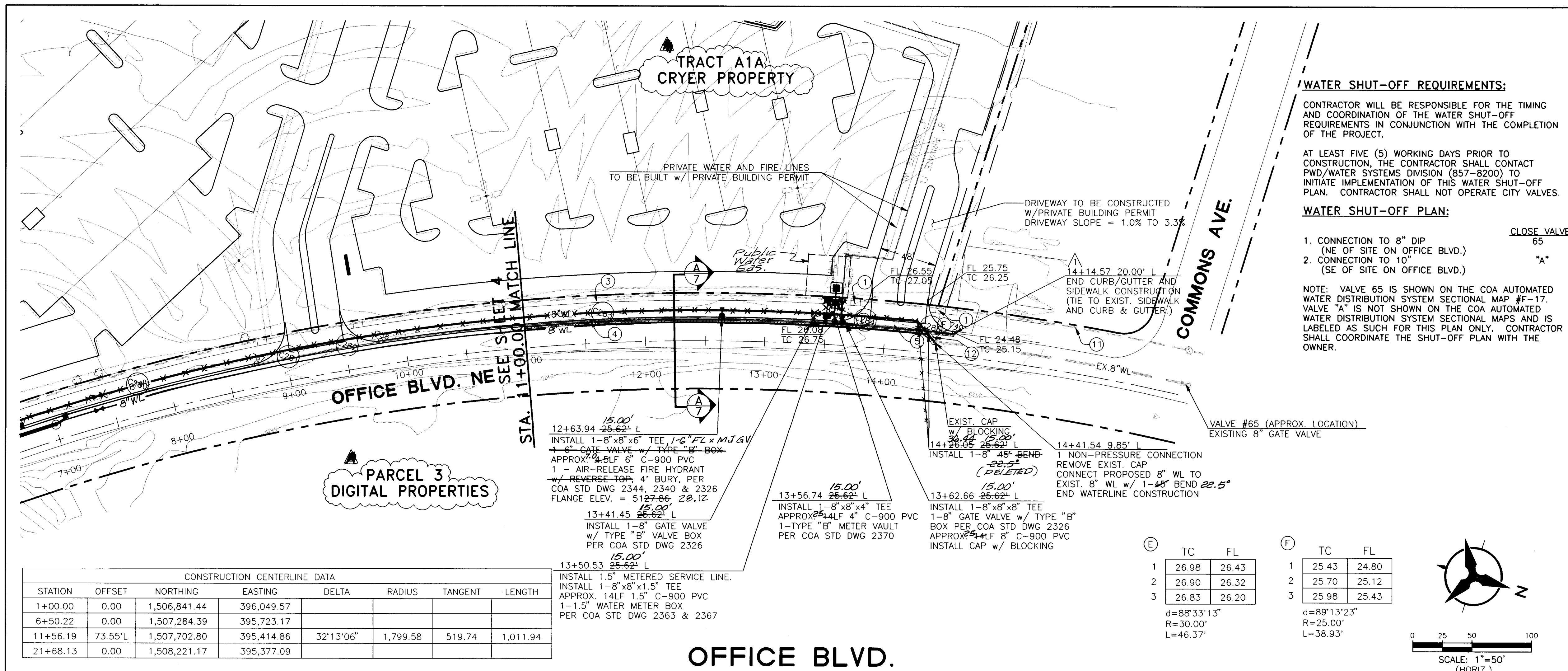
LAST DESIGN UPDATE	MO./DAY/YR.

CITY PROJECT NO.	DRB NO.	ZONE MAP NO.	SHEET	OF
5347.90	95-535	F-17	4	7

SCANNED BY LASON

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 5347.90 26 6497

COPYRIGHT BOHANNAN-HUSTON, INC. 2/27/97



SCANNED BY: LASON SCALE: 1"=50' (HORIZ.) 1"=10' (VERT.)

CONSTRUCTION NOTES

1. CONTRACTOR SHALL USE MINIMUM TRENCH SIZE REQUIRED BY OSHA AND OTHER APPLICABLE AGENCIES. EXISTING OBSTRUCTIONS WITHIN TRENCH PRISM MAY BE REMOVED. APPROVAL FROM ENGINEER AND OWNER OF OBSTRUCTION IS REQUIRED PRIOR TO THE REMOVAL OF OBSTRUCTION.

2. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. COST OF USING TRENCH BOXES OR OTHER APPROVED METHODS OF INSTALLATION AS WELL AS PROTECTION OR RELOCATION OF ANY EXISTING UTILITY SHALL BE INCIDENTAL TO COST OF UTILITY INSTALLATION.

3. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH LAND OWNERS ADJACENT TO CONSTRUCTION AREA FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION. AT LEAST ONE ACCESS TO BUSINESSES MUST BE MAINTAINED AT ALL TIMES.

4. CONTRACTOR SHALL COMPLY WITH TRAFFIC CONTROL PLAN ON SHEET 6.

KEYED NOTES

1 BUILD WHEELCHAIR RAMP PER DETAIL 7 SHEET 7.

2 BUILD WHEELCHAIR RAMP PER DETAIL 6 SHEET 7.

3 BUILD 6' WIDE 4" PCC SIDEWALK PER COA DWG 2430.

4 SAWCUT & REMOVE EXIST. PAVEMENT 1' WIDE ADJACENT TO NEW LIP OF GUTTER. BUILD STANDARD CURB & GUTTER PER COA STD DWG 2415. REPLACE PAVEMENT PER COA STD DWG 2465. ARTERIAL/ COLLECTOR STREET, WITH 4" ASPHALT-TREATED BASE COURSE (ADDITIONAL 2" REQUIRED).

5 BUILD CURB RETURNS AND CONCRETE VALLEY GUTTER WITHIN PRIVATE ENTRANCE PER COA STD DWG 2426, WITHOUT FILLET. TRANSITION FROM STANDARD TO MEDIAN TYPE CURB AND GUTTER THROUGH RETURNS.

6 STA. 7+10.00 19' L: BUILD 1-SGL TYPE "A" INLET PER COA STD DWG 2201 AND 2202, MODIFIED FOR WINGS ON BOTH SIDES. USE 10LF 18" RCP CONN. PIPE. GRATE=5123.83 INVERT=5120.30.

7 STA. 7+00.63 12.82' L: BUILD 1-4" DIA. TYPE "E" MANHOLE PER COA STD DWG 2102. RIM=5124.33 INV(IN)=5118.80 INV(OUT)=5118.33.

8 INSTALL 61LF 18" RCP STORM PIPE.

9 STA. 6+37.60 12.82' L: INSTALL 1-60"x60"x18" RCP TEE. INV(60")=5115.03 INV(18")=5116.21.

10 REMOVE EXISTING 60" CMP AND REPLACE WITH 60" RCP AT EXACT LOCATION, INVERTS AND SLOPE.

11 EXISTING USWEST FIBER LINE IN CONDUIT TO REMAIN IN PLACE AND IN SERVICE. CONTRACTOR SHALL USE EXTREME CAUTION NEAR LINE.

12 CONTRACTOR SHALL REPAIR PAVEMENT CUTS WITHIN WATERLINE AND STORM SEWER TRENCHES PER COA STD DWG 2465, ARTERIAL/COLLECTOR STREET, WITH 4" ASPHALT-TREATED BASE COURSE.

RESTRAINED JOINT TABLE

FITTING TYPE	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED			
	1.5"	4"	6"	8"
10"x8" REDUCER				
45" HORIZ. BEND				
45" VERT. BEND				
8"x8"x1.5" TEE				
8"x8"x4" TEE				
8"x8"x6" TEE				
8"x8"x8" TEE				
GATE VALVE				

RESTRAINT TABLE NOTES

1. REDUCER REQUIRES RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH EXTENDING FROM FITTING ON SMALLER SIDE.

2. HORIZONTAL BENDS REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ON BOTH SIDES OF FITTING.

3. VERTICAL OFFSETS REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ON BOTH SIDES OF UPPER AND LOWER FITTINGS. LARGER LENGTH REPRESENTS UPPER BEND RESTRAINED LENGTH AND SMALLER LENGTH REPRESENTS LOWER BEND RESTRAINED LENGTH.

4. TEE FITTINGS REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ALONG BRANCH PIPE. CONTRACTOR SHALL ENSURE THAT 20' ALONG EACH RUN TO BE FREE OF JOINTS.

5. IN-LINE VALVES REQUIRE RESTRAINT OF ALL JOINTS WITHIN GIVEN LENGTH ON BOTH SIDES OF FITTING.

6. FIRE HYDRANTS REQUIRE RESTRAINT OF ALL JOINTS FROM MAIN TO MECHANICAL JOINT SHOE AT THE HYDRANT.

7. ALL FITTINGS SHALL BE RESTRAINED AT EACH FLANGE.

8. CONTRACTOR SHALL PROVIDE MINIMUM PIPE LENGTHS OF 20' WITHIN RESTRAINED LENGTH OF FITTINGS. ALL PIPE JOINTS WITHIN 20' OF A FITTING SHALL BE RESTRAINED AT CONTRACTOR'S EXPENSE.

9. CONTRACTOR SHALL RESTRAIN ALL CAPS WITH PCC BLOCKING.

RESTRAINT TABLE ASSUMPTIONS

ASTM SOIL CLASSIFICATION: SM (SAND SILT MIXTURE)

AWWA TRENCH TYPE: 5 TEST PRESSURE: 150 PSI

FACTOR OF SAFETY: 1.5 TO 1

DEPTH OF BURY: 4' TO TOP OF PIPE

LOW SIDE DEPTH (VERT. OFFSETS): 16' TO TOP OF PIPE

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: WATERLINE EXTENSION & PAVEMENT IMPROVEMENT
OFFICE BOULEVARD

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

LAST DESIGN UPDATE

CITY PROJECT NO. 5347.90 DRB NO. 95-535 ZONE MAP NO. F-17 SHEET 5 OF 7

DATE: 5-2-97

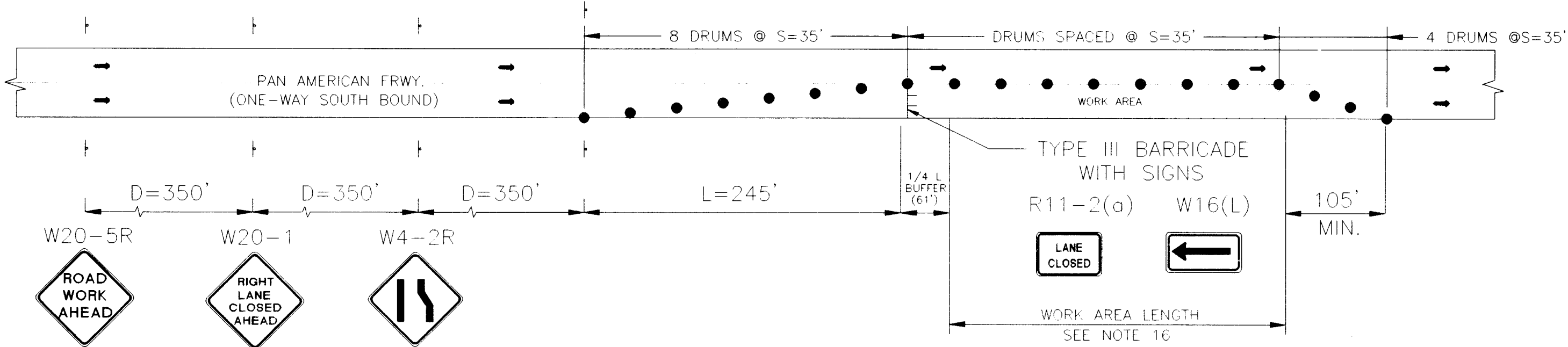
SCANNED BY: LASON SCALE: 1"=50' (HORIZ.) 1"=10' (VERT.)

BOHANNAN-HUSTON, INC.
2/20/97

TRAFFIC CONTROL GENERAL NOTES

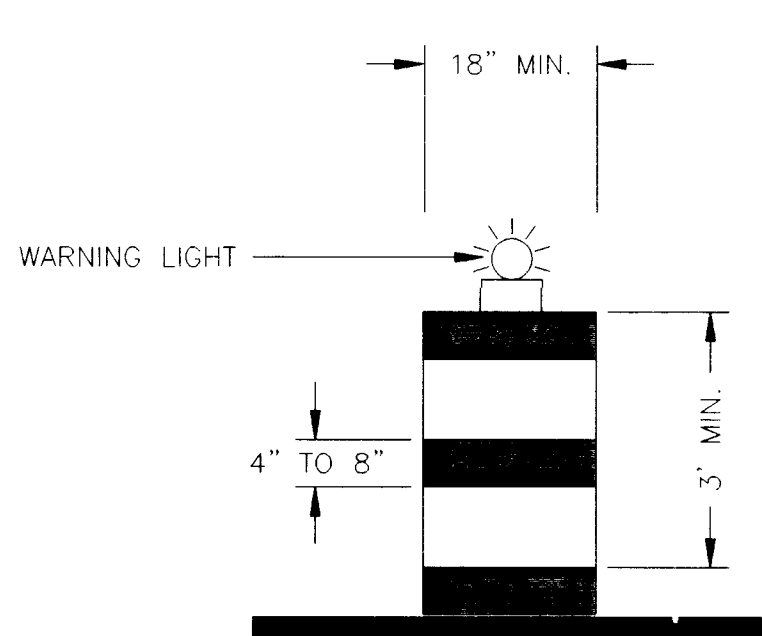
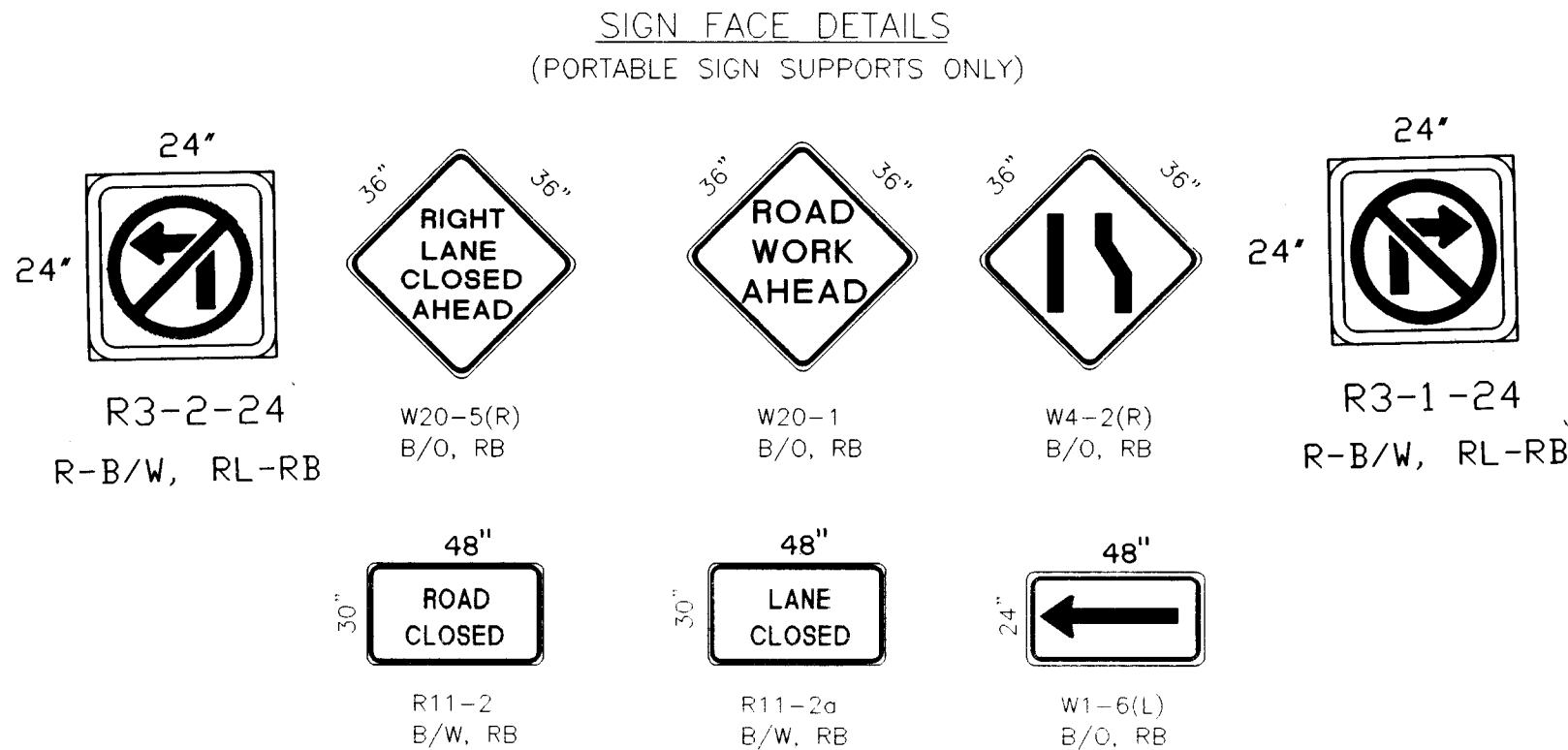
1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE RIGHT-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS. NMSHTD UTILITY PERMIT IS REQUIRED TO INSTALL SANITARY SEWER WITHIN NMSHTD RIGHT-OF-WAY.
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 SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL 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 CITY OF ALBUQUERQUE CONSTRUCTION COORDINATION AND ALSO NMSHTD DISTRICT 3 TRAFFIC ENGINEER.
5. CITY OF ALBUQUERQUE CONSTRUCTION COORDINATION AND NMSHTD DISTRICT 3 TRAFFIC ENGINEER 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 CITY OF ALBUQUERQUE CONSTRUCTION COORDINATION AND NMSHTD DISTRICT 3 TRAFFIC ENGINEER, 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 WORK SITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORK SITE TRAFFIC SUPERVISOR OR EQUIVALENT.
8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH 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. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
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 CITY OF ALBUQUERQUE CONSTRUCTION COORDINATION AND NMSHTD DISTRICT 3 TRAFFIC ENGINEER.
14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPPING.
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 AN ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. 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. 24 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 CITY OF ALBUQUERQUE CONSTRUCTION COORDINATION AND NMSHTD DISTRICT 3 TRAFFIC ENGINEER.

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:
a) STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
b) THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
c) SECTION 19 OF THE CITY OF ALBUQUERQUE 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 CITY OF ALBUQUERQUE CONSTRUCTION COORDINATION AND NMSHTD DISTRICT 3 TRAFFIC ENGINEER.
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO PLACEMENT AND MAINTENANCE.
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

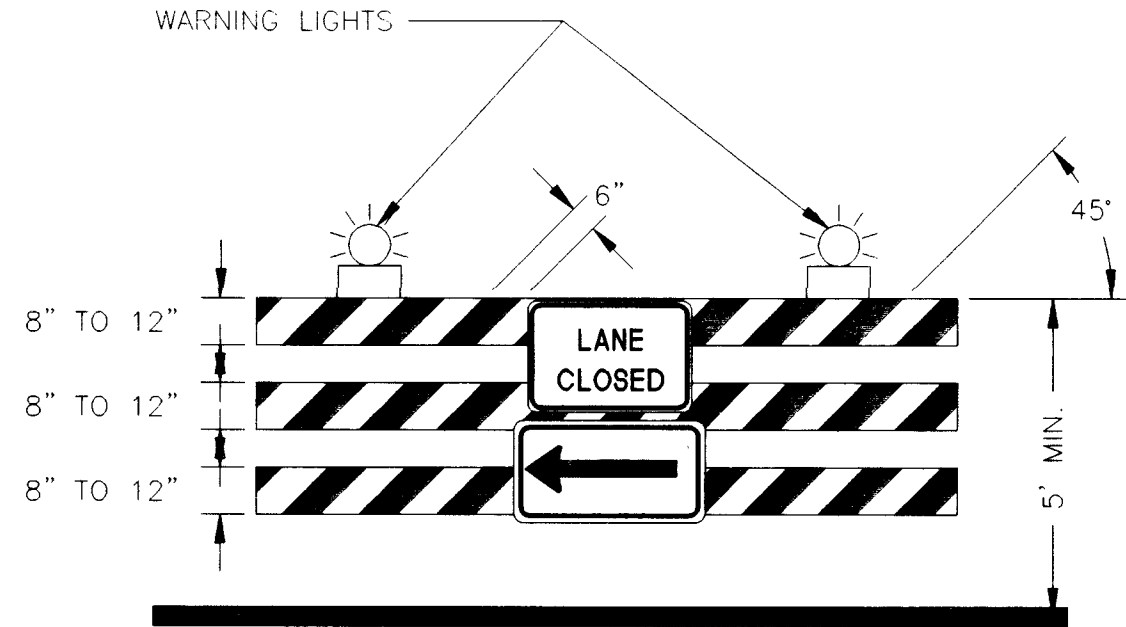


PAN AMERICAN FRWY. TRAFFIC CONTROL PLAN

NTS



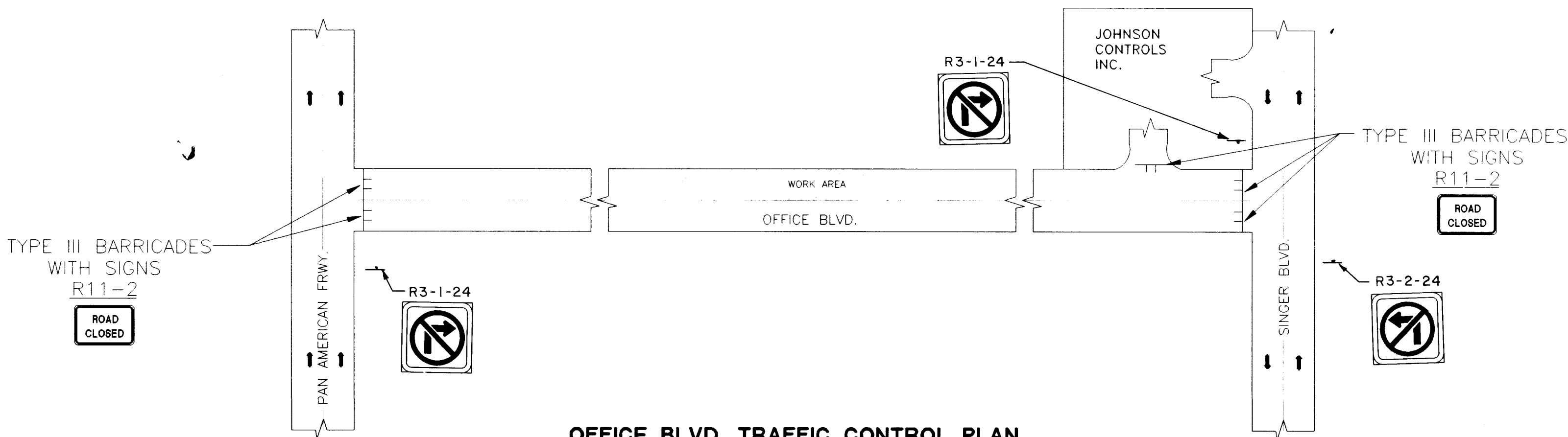
TYPE "H" DRUMS SHALL BE BALLESTED WITH SAND BAGS. A MAXIMUM OF 100 LBS OF BALLAST SHALL BE USED. REFLECTIVITY III SHEETING SHALL BE USED ON TYPE "H" DRUMS. WARNING LIGHTS WILL BE REQUIRED ONLY ON CHANNELING TAPERS.



TYPE III BARRICADE WITH SIGNS R-11(g) AND W16(L)

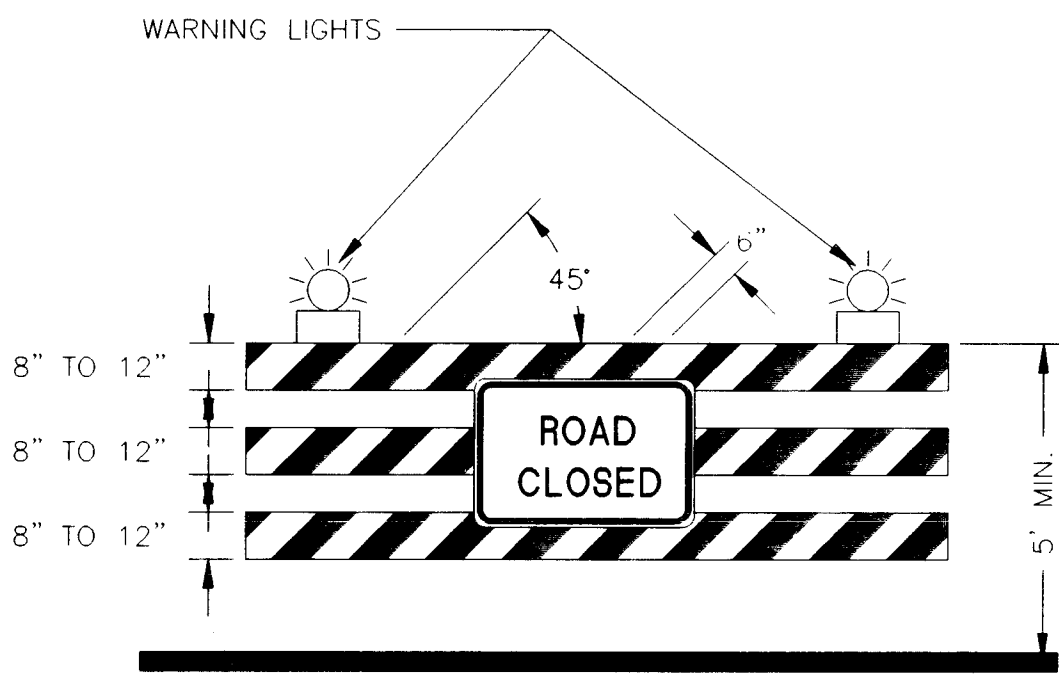
LEGEND

- WORK AREA
 - BARRICADE - TYPE I, TYPE II, OR DRUM
 - BARRICADE - TYPE III
 - WARNING SIGN
 - D DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
 - S SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
 - L TAPER LENGTH-EQUAL TO SPEED TIMES OFFSET
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



OFFICE BLVD. TRAFFIC CONTROL PLAN

NTS



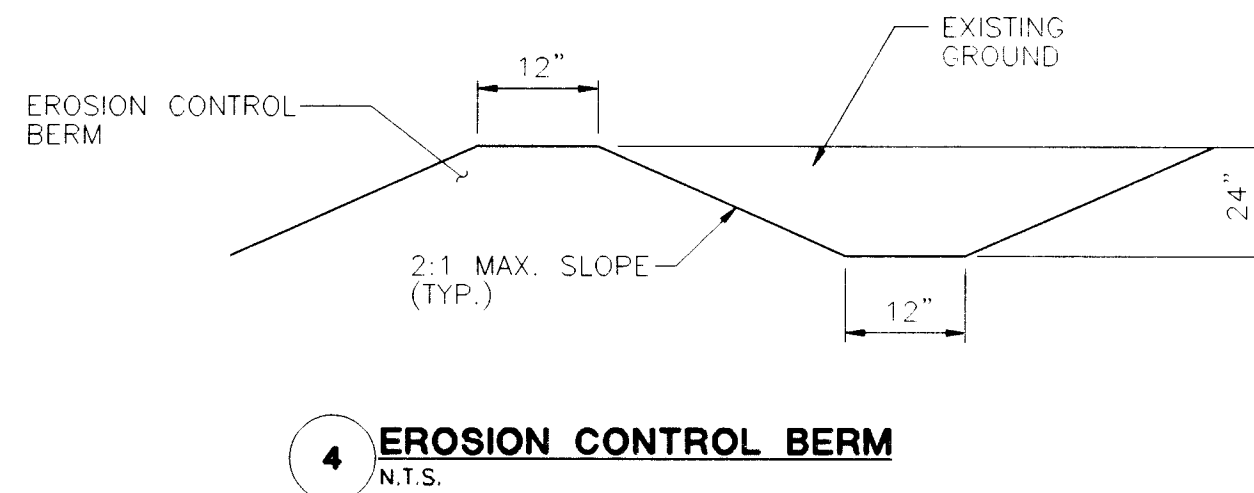
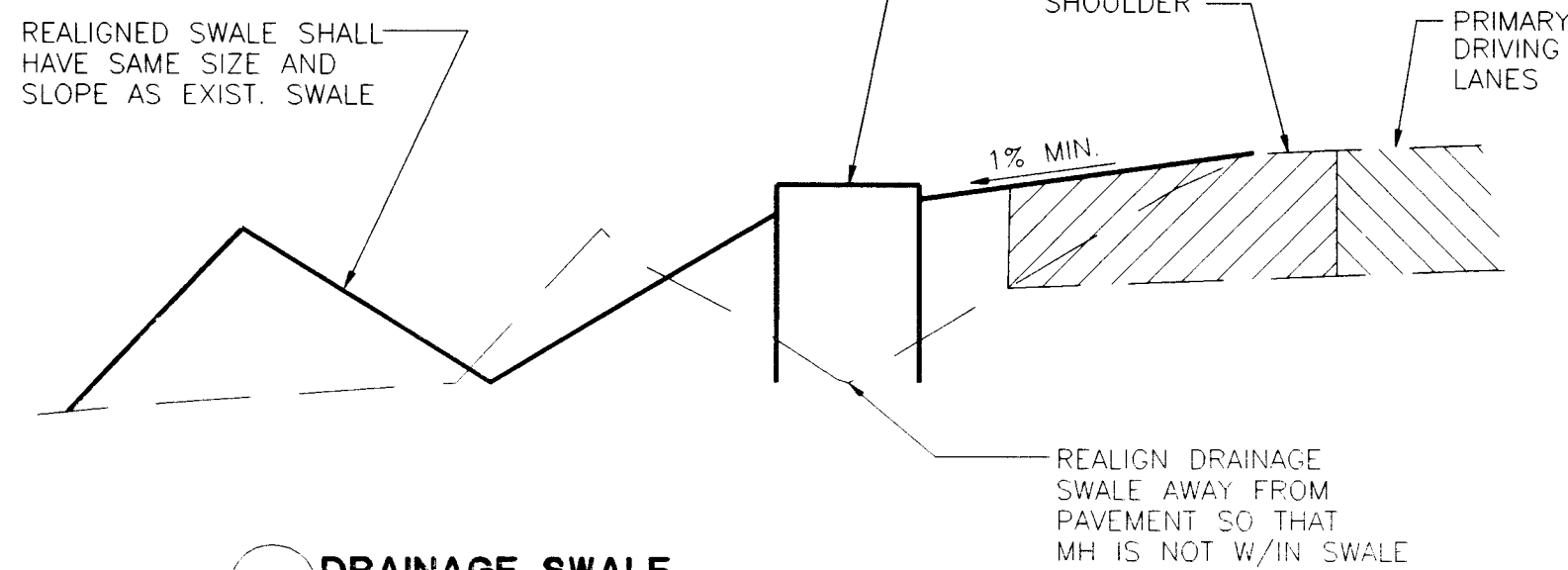
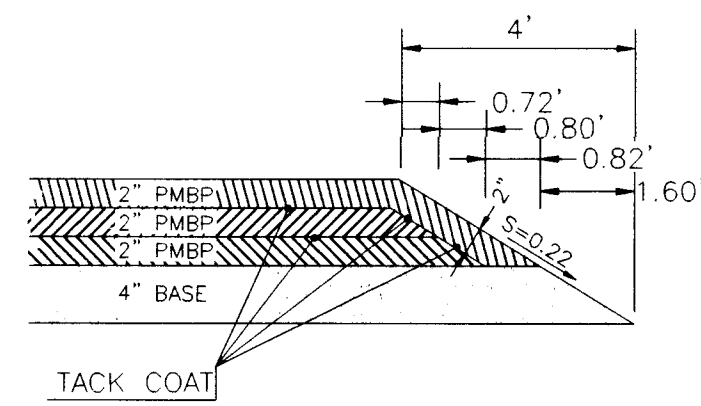
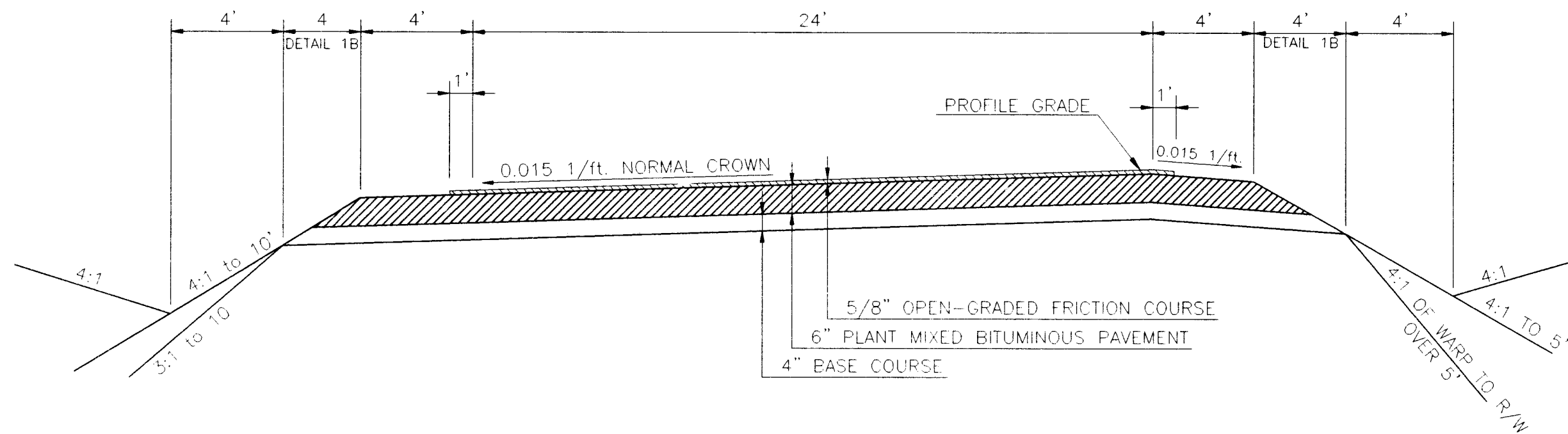
TYPE III BARRICADE WITH SIGN R11-2

SCANNED BY
BY LASON

RECORD DRAWING
DATE: 5-2-97

AS-BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	TLC	DATE	4/97	NO.	BY	DATE		NO.	BY	DATE					
WORK	DATE	4/97		REVISIONS	DATE			REVISIONS	DATE						
DESIGNED BY	BH	DATE	4/97	DESIGNED BY	KAREN BANKS	DATE	10/96	DESIGNED BY	KAREN BANKS	DATE	10/96				
CHECKED BY	BH	DATE	4/97	CHECKED BY	PAUL FAIRBANKS	DATE	10/96	CHECKED BY	PAUL FAIRBANKS	DATE	10/96				
DRAWING	DATE	4/97		DRAWING	DATE	4/97		DRAWING	DATE	4/97					
CORRECTED BY	BH	DATE	4/97	CORRECTED BY		DATE		CORRECTED BY		DATE					
RECORDED BY		DATE		RECORDED BY		DATE		RECORDED BY		DATE					
NO		DATE		NO		DATE		NO		DATE					

BOHANNAN-HUSTON INC. ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS ALBUQUERQUE LAS CRUCES SANTA FE			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: TRAFFIC CONTROL PLAN PAN AMERICAN FRWY. & OFFICE BLVD.			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO.	DRB NO.	ZONE MAP NO.	SHEET OF
5347.90	95-535	F-17	6 7



EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT EXCAVATED MATERIALS ARE NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
2. DURING THE MONTHS OF JULY, AUGUST OR SEPTEMBER, ANY GRADING WITHIN OR ADJACENT TO A WATERCOURSE DEFINED AS A MAJOR FACILITY SHALL PROVIDE FOR EROSION CONTROL AND SAFE PASSAGE OF THE 10-YEAR DESIGN STORM RUNOFF DURING THE CONSTRUCTION PHASE.
3. CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL REQUIREMENTS, AND IS RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. ALL GRADED AREAS WHICH DO NOT RECEIVE A FINAL SURFACE TREATMENT WILL BE REVEGETATED IN ACCORDANCE WITH THE LANDSCAPE SPECIFICATIONS AND WITH THE RECLAMATION SEEDING SPECIFICATIONS.

REVEGETATION PLAN I-25 FRONTAGE ROAD ALBUQUERQUE

ALL DISTURBED SOIL AREAS CAUSED BY PROJECT CONSTRUCTION SHALL BE TREATED WITH CLASS "C" MULCH. THE MULCH SHALL BE BARLEY STRAW APPLIED AT THE RATE OF 1.5 TONS PER ACRE AND SHALL BE ANCHORED BY CRIMPING AND APPLYING AN APPROVED TACKIFIER OVER MULCHED AREA.

THE MULCHED AREAS SHALL BE OVER SEEDDED WITH CLASS "A" SEEDING BETWEEN JUNE 1 AND AUGUST 31. PRIOR TO PERFORMING SEEDING OPERATIONS ALL WEED SPECIES WHICH MAY HAVE GROWN IN AREAS TO BE SEEDDED AND WILL INTERFERE WITH THE SEED AND MULCH MAKING CONTACT WITH THE SOIL SHALL BE REMOVED. ALL AREAS IN WHICH MULCH IS NOT PRESENT SHALL BE REMULCHED WITH BARLEY STRAW AND TACKED.

SEED MIX**

(CERTIFIED SEED OF NAMED VARIETIES ARE REQUIRED IF AVAILABLE)

SPECIES	ORIGIN	LBS. PURE LIVE SEED PER ACRE
Bouteloua gracilis (BLUE GRAMA)	HACHITA OR LOVINGTON	2.0
Bouteloua curtipendula (SIDEOTS GRAMA)	VAUGHN OR NINER	4.0
Agropyron smithii (WESTERN WHEATGRASS)	BARTON OR ARRIBA	4.0
Hilaria jamesii (GALLETA)	VIVA	4.0
Andropogon scoparium (LITTLE BLUESTEM)	PASTURA	1.0
Chlorops linearis (DESERT WILLOW)	"	0.5
Eschscholzia californica (CALIFORNIA POPPY)	"	0.5
Linum Lewisii (BLUE FLAX)	ANY	0.5
Gaillardia aristata (FIREWHEEL)	ANY	0.5
TOTAL		17.0

**THE PROJECT MANAGER SHALL CONTACT THE NEW MEXICO DEPARTMENT OF AGRICULTURE SEED TESTING LABORATORY AT 646-2886 TWO WEEKS PRIOR TO SEEDING SO THAT AN OFFICIAL SEED SAMPLE CAN BE TAKEN DURING THE SEEDING OPERATION.

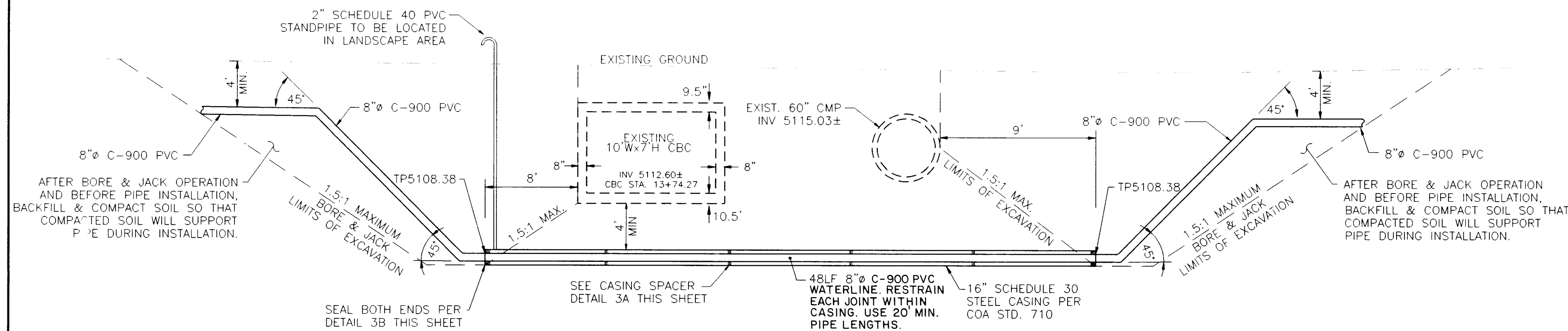
FERTILIZER REQUIREMENTS

CHEMICAL	ACTUAL MIN. POUNDS/ACRE
SLOW RELEASE NITROGEN (I.E., UREA FORMALDEHYDE)	50
PHOSPHORUS, AS P2 O5	46
SULPHUR (IN A WATER SOLUBLE FORM)	48

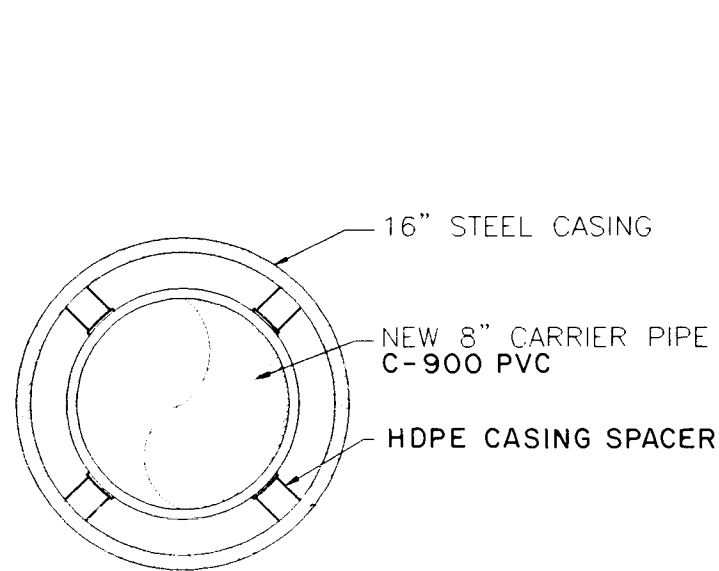
SEEDING DATES

JUNE 1 THROUGH AUGUST 31

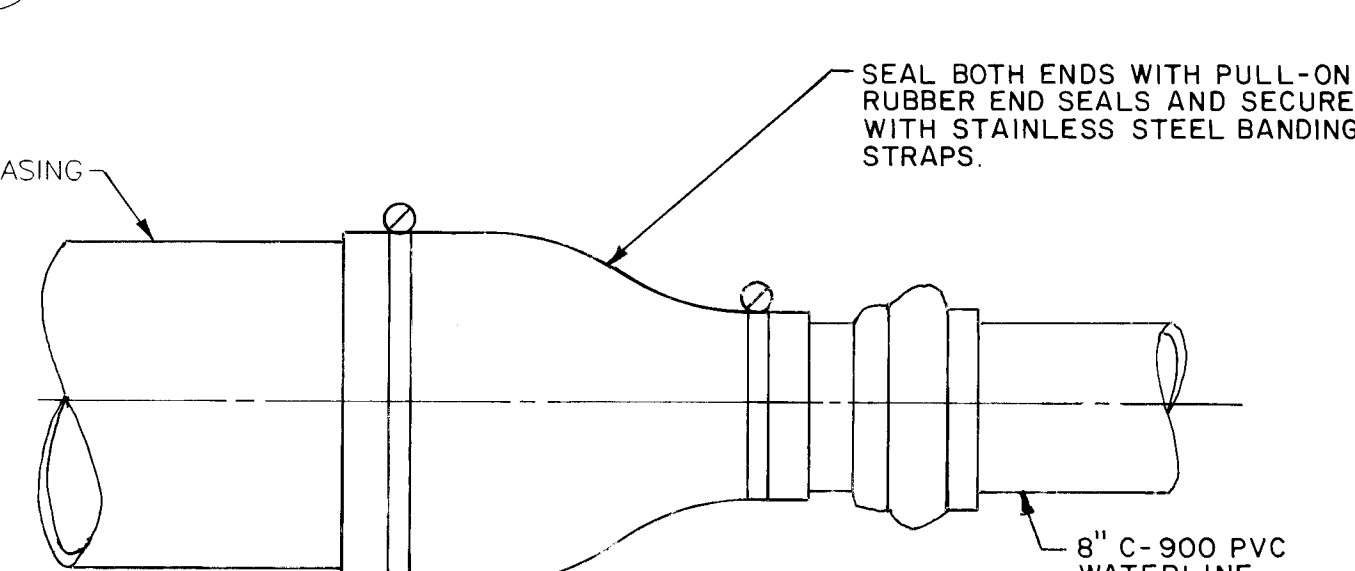
ANY PROPOSED CHANGES OR MODIFICATIONS TO THIS PLAN SHALL BE DISCUSSED WITH THE NMSHTD LANDSCAPE ARCHITECT, GRADY STEM, PRIOR TO MAKING SUCH CHANGES OR MODIFICATIONS.



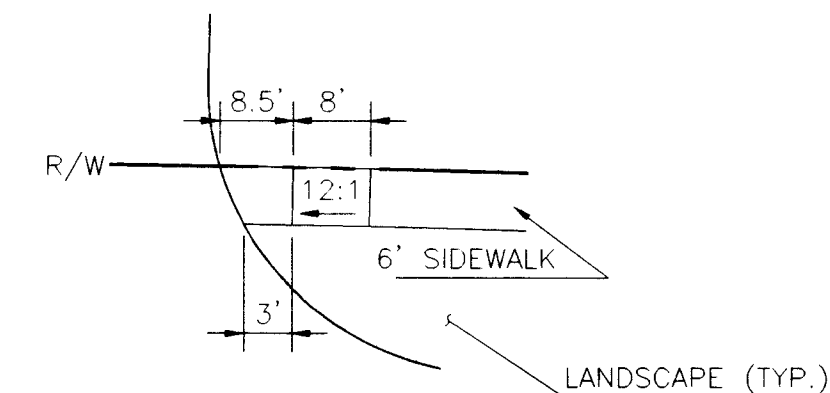
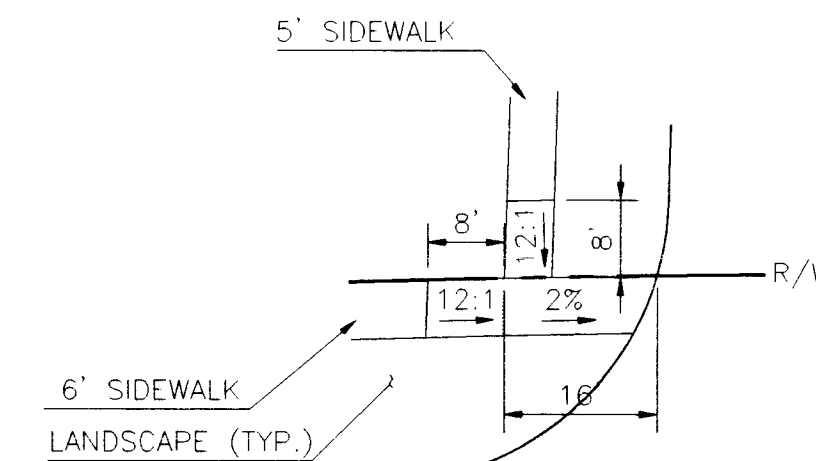
3A CASING SPACER DETAIL SECTION THRU SPACER



3B CASING PIPE SEAL DETAIL

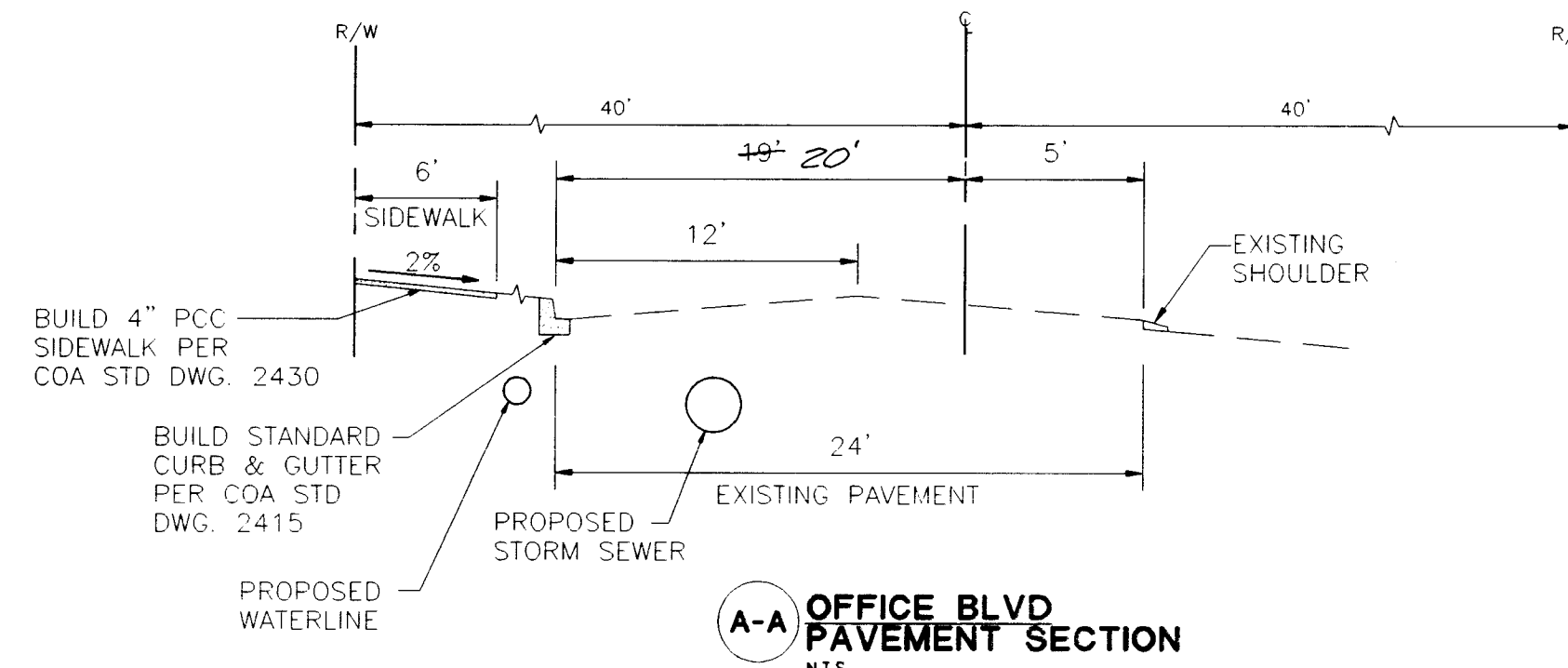


- *NOTES: 1. SPACE CASING SPACERS 10' O.C. ALONG THE LENGTH OF CASING. 2. CONTRACTOR SHALL SUBMIT MATERIAL LISTING AND SPECIFICATIONS TO ENGINEER PRIOR TO ORDERING AND INSTALLING MATERIALS FOR BORE AND JACK OPERATION.



6 WHEELCHAIR RAMP

7 WHEELCHAIR RAMP



SCANNED BY
BY LASON

RECORD DRAWING
DATE: 5-2-97

BOHANNAN-HUSTON INC. ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS ALBUQUERQUE LAS CRUCES SANTA FE	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: PAN AMERICAN FRWY & OFFICE BLVD	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
MO./DAY/YR.	MO./DAY/YR.
LAST DESIGN UPDATE	
CITY PROJECT NO. 5347.90	DRB NO. 95-535
ZONE MAP NO. F-17	SHEET 7 OF 7