



CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
PARK DESIGN AND CONSTRUCTION DIVISION
CONSTRUCTION PLANS FOR
NORTH DOMINGO BACA PARK
PHASE 4 CONSTRUCTION - BOX CULVERT
WYOMING BOULEVARD TO KINNEY DAM

JULY 2005

INDEX OF DRAWINGS

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DISCLOSURE STATEMENT:

THE SUBJECT PROPERTY IS LOCATED ON/NEAR A FORMER LANDFILL. DUE TO SUBJECT PROPERTY BEING ON/NEAR A FORMER LANDFILL, CERTAIN PRECAUTIONARY MEASURES MAY NEED TO BE TAKEN TO ENSURE THE HEALTH AND SAFETY OF THE PUBLIC. RECOMMENDATIONS MADE BY A PROFESSIONAL ENGINEER WITH EXPERTISE IN LANDFILLS AND LANDFILL GAS ISSUES (AS REQUIRED BY THE MOST CURRENT VERSION OF THE "INTERIM GUIDELINES FOR DEVELOPMENT WITHIN 1000 FEET OF LANDFILLS") SHALL BE CONSULTED PRIOR TO DEVELOPMENT OF THE SITE.

APPROVED FOR CONSTRUCTION

[Signature]
MARCIA PINCUS, P.E.
ENVIRONMENTAL HEALTH DEPARTMENT
CITY OF ALBUQUERQUE

August 3, 2005
DATE

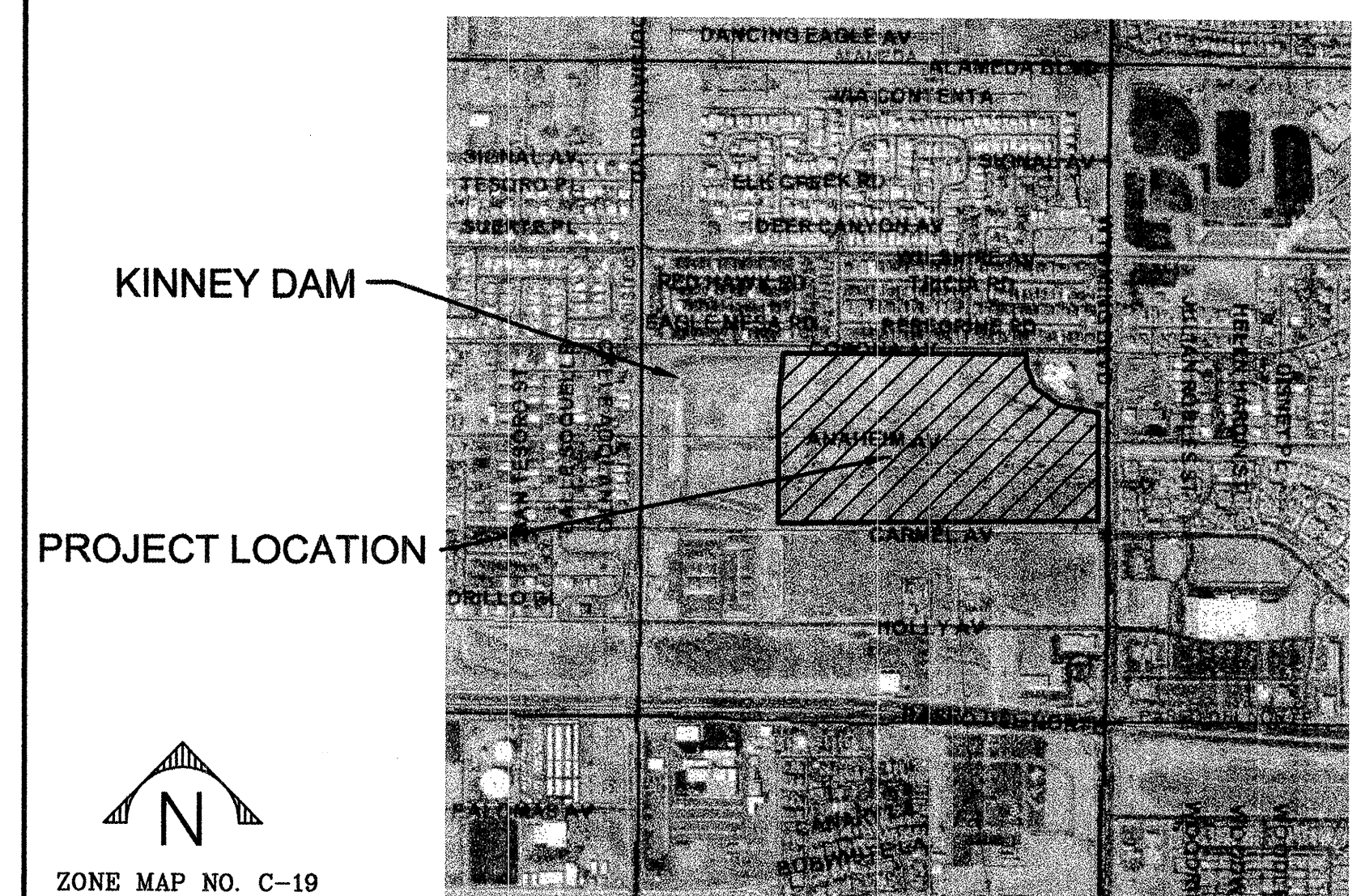
APPROVED FOR CONSTRUCTION - CITY OF ALBUQUERQUE

[Signature]
DEPARTMENT OF MUNICIPAL DEVELOPMENT, STORM DRAINAGE DESIGN

APPROVED FOR CONSTRUCTION WITHIN AMAFCA R.O.W.

[Signature]
JOHN KELLY, P.E.
EXECUTIVE ENGINEER
ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY

7-19-05
DATE



VICINITY MAP

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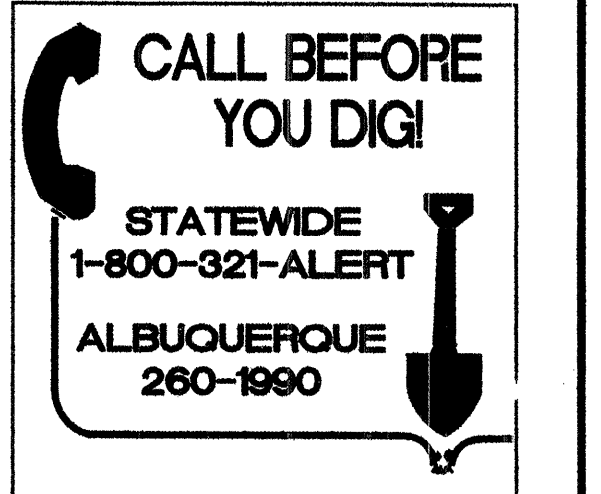
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OSO GRANDE TECHNOLOGIES

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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	14	7138.92	8-4-05	7138.92	8-4-05	7138.92	8-4-05
2	14	7138.92	8-4-05	7138.92	8-4-05	7138.92	8-4-05
3	14	7138.92	8-4-05	7138.92	8-4-05	7138.92	8-4-05
4	14	7138.92	8-4-05	7138.92	8-4-05	7138.92	8-4-05
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12	14	7138.92	8-4-05	7138.92	8-4-05	7138.92	8-4-05
13	14	7138.92	8-4-05	7138.92	8-4-05	7138.92	8-4-05
14	14	7138.92	8-4-05	7138.92	8-4-05	7138.92	8-4-05

- 1 THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, THROUGH UPDATE NO.7.
- 2 FIVE (5) 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 (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS.
- 3 THE CONTRACTOR WILL NOTIFY THE FIELD 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 CITY AND AMAFCA SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL BE DONE ONLY BY THE CITY SURVEY SECTION. 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 STANDARD SPECIFICATIONS FOR PUBLIC WORKS.
- 4 ALL NEW MANHOLES SHALL BE TYPE "E" (COA DWG. 2102) 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 SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.
- 9 ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH. ALL EXCAVATING, TRENCHING & SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 1926.650 SUBPART P.
- 10 ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL OF 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 IS THE CONTRACTOR'S 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 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 COMPACTION 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 OR HER 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 WILL BE SALVAGED AND RETURNED TO THE C.O.A.
- 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 WILL 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 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 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. THE CONTRACTOR MAY BE ALLOWED AN EXTENSION OF THE CONTRACT TIME, DUE TO DELAYS, AS DELINEATED IN THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, SECTION 12.
- 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 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 AND WILL BE PAID AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND BID PROPOSAL. 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 STANDARD 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 OR HER OWN EXPENSE. HE/SHE 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. ALL STORM DRAIN INLETS WILL BE TYPE "A" 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 CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.
- 47 THE TERM "REMOVE" USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, LATEST EDITION.
- 48 CONTRACTOR WILL SURVEY AND LOG EXISTING ELEVATIONS OF CURB-AND-GUTTER, SIDEWALK, AND PAVEMENT WHICH WILL BE REMOVED FOR CONSTRUCTION OF IMPROVEMENTS. CONTRACTOR WILL REPLACE REMOVED CURB-AND-GUTTER, SIDEWALK, DRIVE PADS, 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 EXPOSED CONCRETE SURFACES INCLUDING BUT NOT LIMITED TO RETAINING WALLS, SLOPE PAVING, STRUCTURES, AND CHANNEL LINING SHALL BE TINTED CONCRETE. TINTING SHALL BE SAN DIEGO BUFF AT ONE POUND OF COLOR PER SACK OF CEMENT.
- 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 CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 55 ALL STRIPING ON C.O.A STREETS REMOVED OR DAMAGED MUST BE REPLACED WITH PLASTIC. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MAXIMUM DEPTH OF 0.25 INCHES (MAXIMUM) AND FOR A WIDTH EQUAL TO TWO TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.
- 56 FOR STORM DRAIN CONSTRUCTION, RCP JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL. FINAL INSPECTION WILL DETERMINED JOINTS TO BE GROUTED FOR FULL INSPECTION ACCEPTANCE OF THE CONSTRUCTION.
- 57 THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION, INCLUDING WORKER HEALTH AND SAFETY ASPECTS, OF THESE IMPROVEMENTS.
- 58 DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS. ALL COSTS INCURRED IN OBTAINING A FULLY REGULATED DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OF PAYMENT SHALL BE CONSIDERED.
- 59 ALL DISTURBED GROUND AREAS RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REVEGETATED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 1012, NATIVE GRASS SEEDING, AS CURRENTLY UPDATED.

EXISTING FEATURES LEGEND:

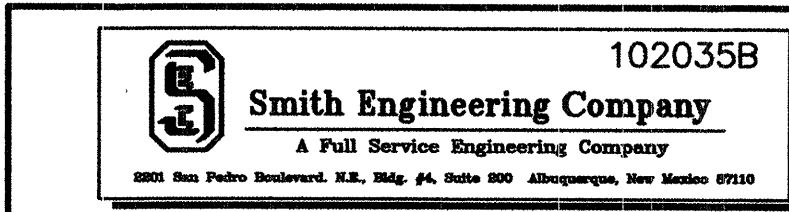
	EXISTING CHAIN-LINK FENCE
	EXISTING GAS LINE W/ VALVE
	EXISTING WATERLINE W/ VALVE
	EXISTING SANITARY SEWER LINE W/ MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING STORM DRAIN
	EXISTING UTILITY POLE
	EXISTING 1' CONTOUR
	EXISTING 5' CONTOUR
	EXISTING CURB & GUTTER
	EXISTING CONCRETE
	EXISTING BUILDING LINE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

NEW FEATURES LEGEND:

	CONSTRUCTION CENTERLINE
	NEW CBC BOX CULVERT
	NEW RCP STORM DRAIN
	NEW 1' CONTOUR
	NEW 5' CONTOUR
	NEW CONCRETE
	POT HOLE LOCATION W/ NO.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL		REVISIONS		DESIGN	
CONTRACTOR	Scale	DATE	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
WORKED BY	C.S.	DATE	BY								
STATION NAME	1-B20	STATE	NM	COUNTY	BERNALILLO	ESTABLISHING AGENCY	ACS STANDARD BRASS CAP	IN CONCRETE LOCATED IN THE NORTHEAST QUADRANT	OF THE INTERSECTION OF BARSTOW ST. AND MODESTO AVE.	SPIRIT LEVEL ELEVATION	N = 1524092.46, E = 410237.56
FIELD ACCEPTANCE BY	COA	DATE	3/6/7								
FIELD ACCEPTANCE BY	C.S.	DATE	3/6/7								
DRAWN BY	51C	DATE	3/6/7								
CHECKED BY	51C	DATE	3/6/7								
RECORDED BY		DATE									
NO.											

DESIGNED BY	GN	DATE	JULY 2005
DRAWN BY	KSH	DATE	JULY 2005
CHECKED BY	GN	DATE	JULY 2005

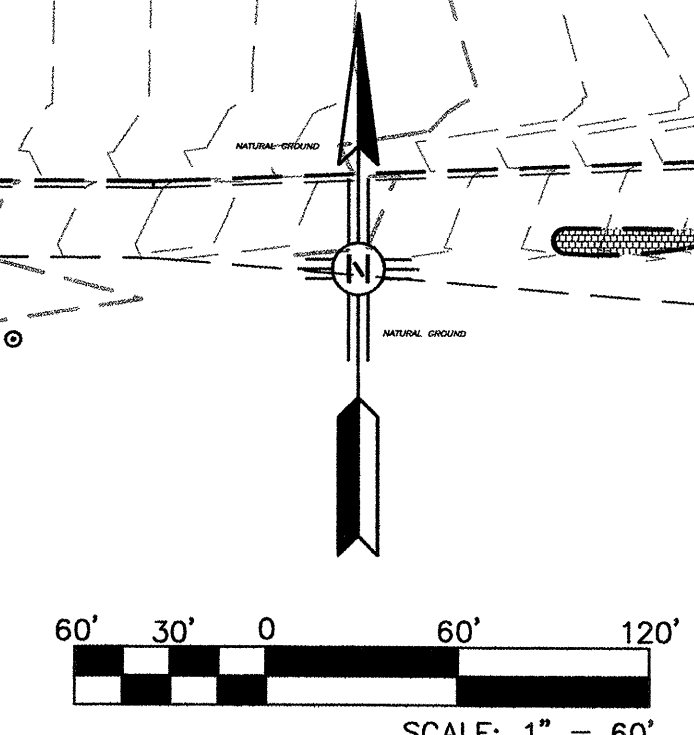
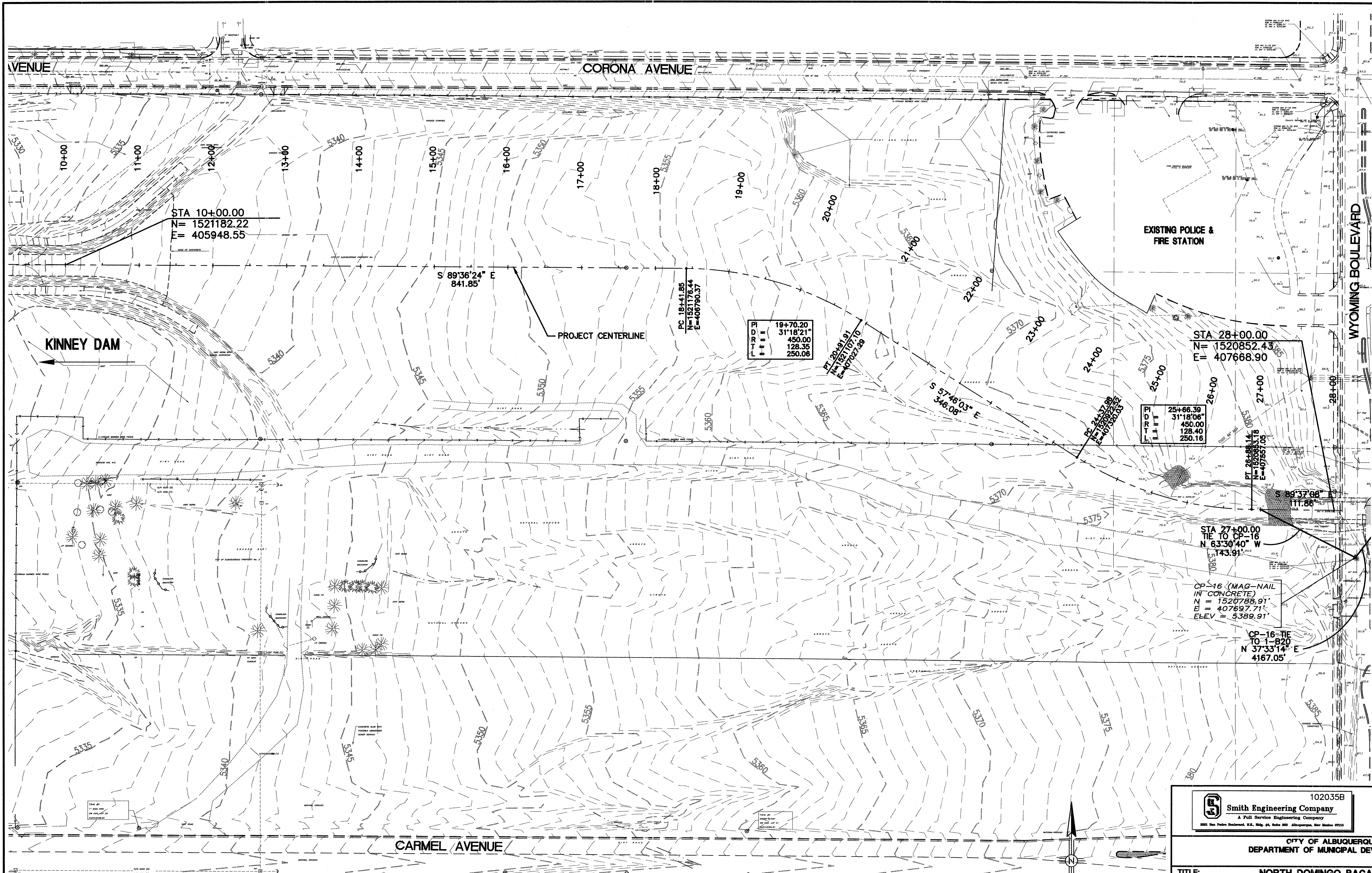


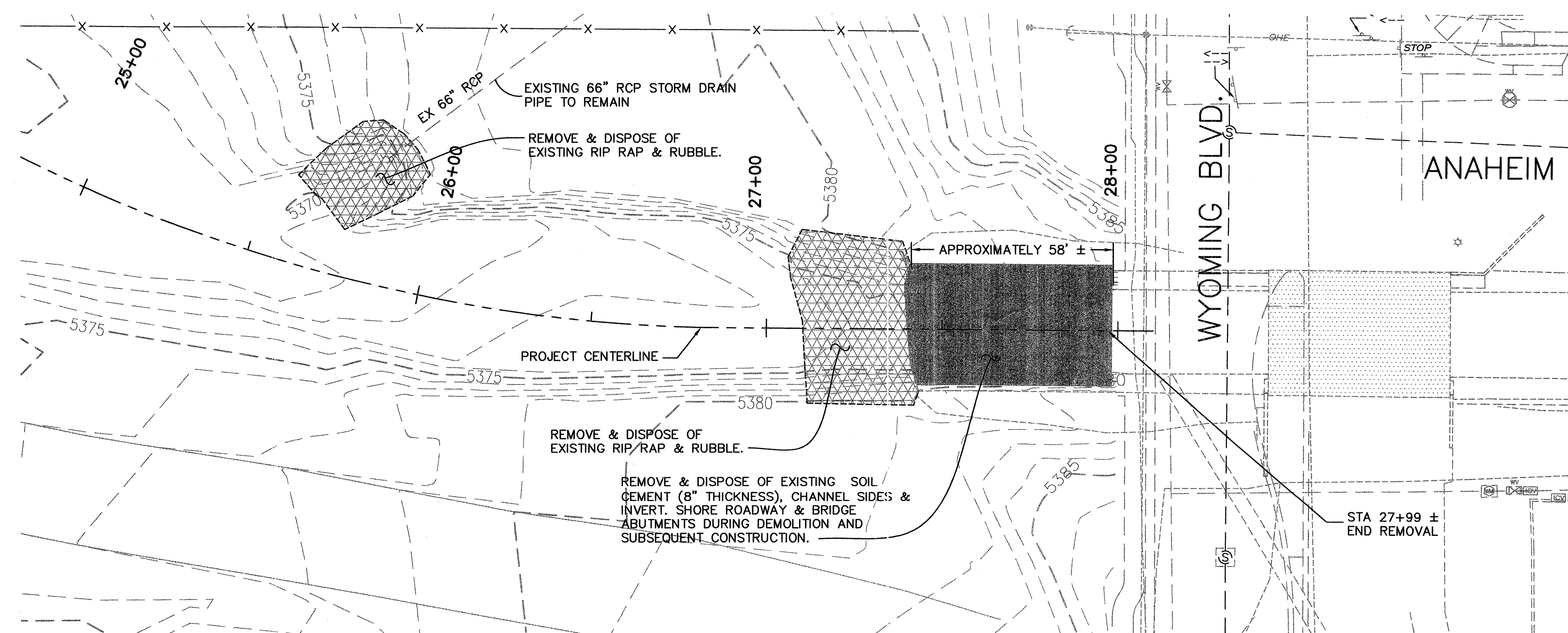
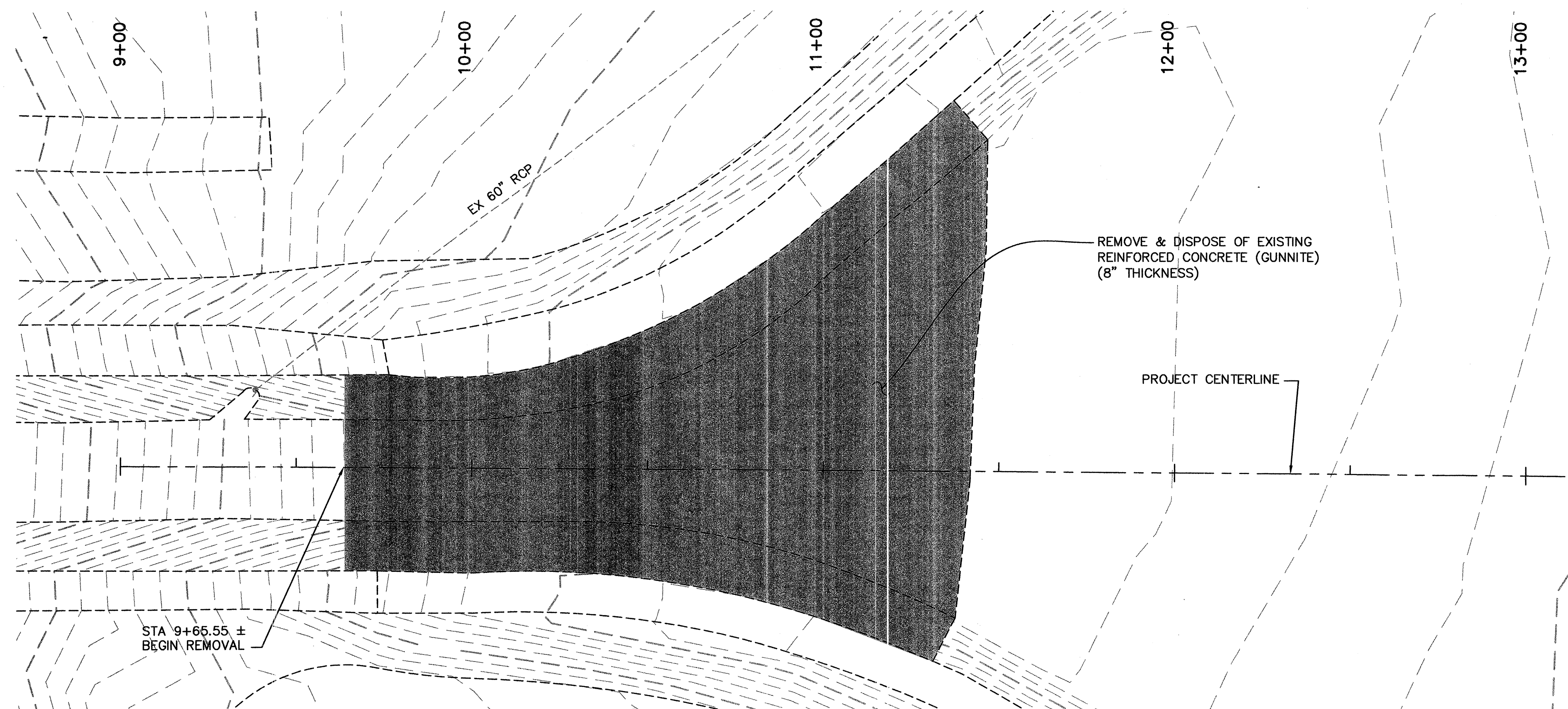
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TITLE: NORTH DOMINGO BACA PARK
PHASE 4 CONSTRUCTION - BOX CULVERT
GENERAL NOTES & LEGEND

Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.

City Project No. 7138.92 Zone Map No. C-19 Sheet 2 of 14

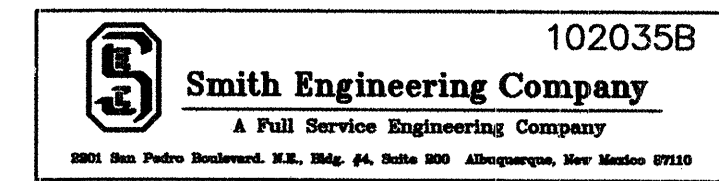
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GENERAL NOTES:



1. PROVIDE FULL DEPTH SAW CUT ALONG LINE OF REMOVAL OF REINFORCED CONCRETE (GUNNITE).

SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES		STATION NAME: 1-B20; STATE: NM; COUNTY: BERNALILLO	ESTABLISHING AGENCY: ACS STANDARD BRASS CAP	CONTRACTOR Sells Rco. 3/07	DATE 3/07
	BY	DATE				
			IN CONCRETE LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF BARSTOW ST. AND MODESTO AVE.	INSPECTOR'S ACCEPTANCE BY: CCA DATE 3/07		DATE 3/07
				VERIFICATION BY: C.S. DATE 3/07		DATE 3/07
				DRAWINGS PREPARED BY: SEC. DATE 3/07		DATE 3/07
			SPIRIT LEVEL ELEVATION = 5474.533 FT. (NGVD 29)	MICRO-FILM INFORMATION		
			PLANE COORDINATES: N = 1524092.46; E = 410237.56	RECORDED BY	DATE	
				NO.		

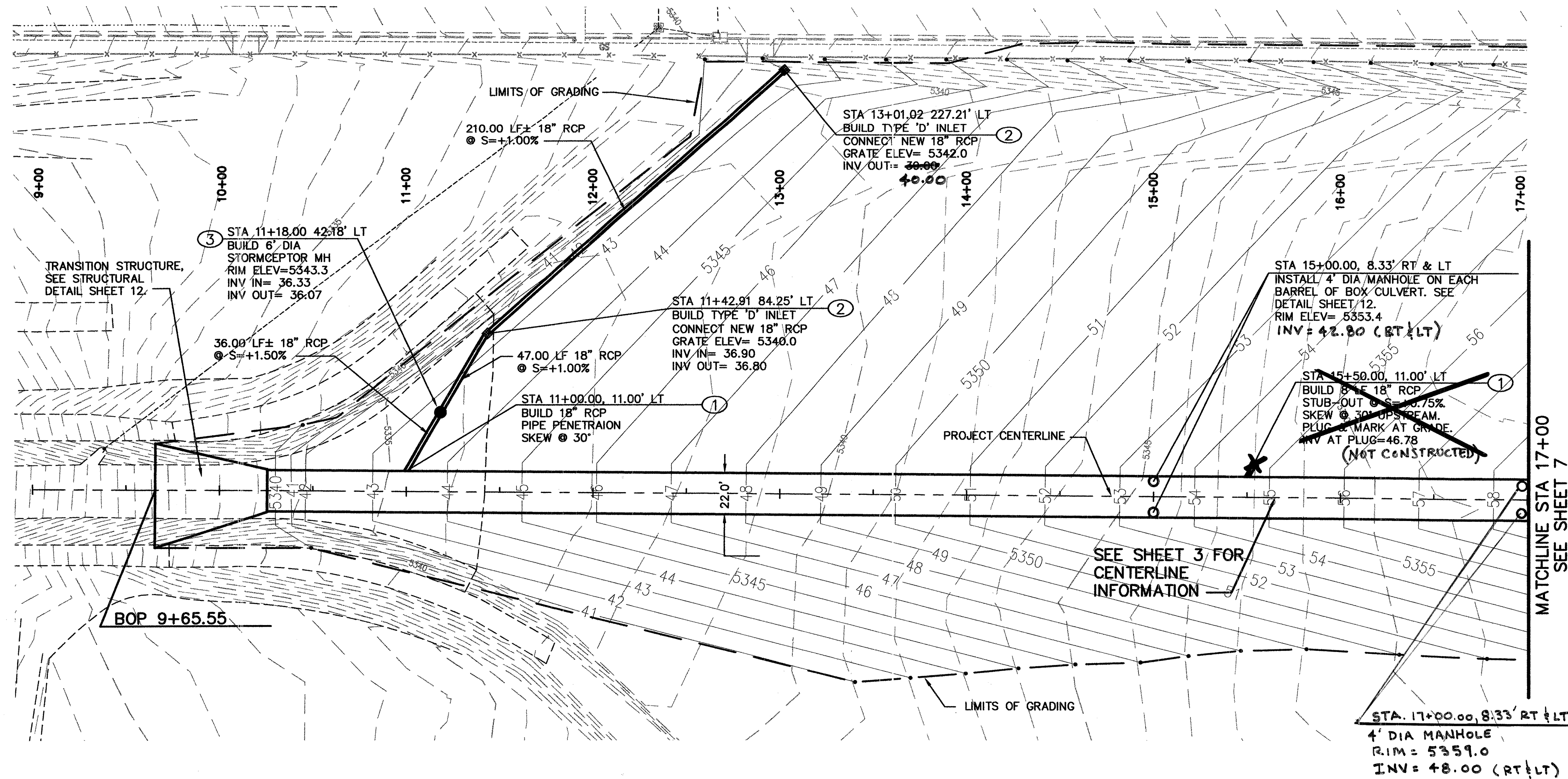
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CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

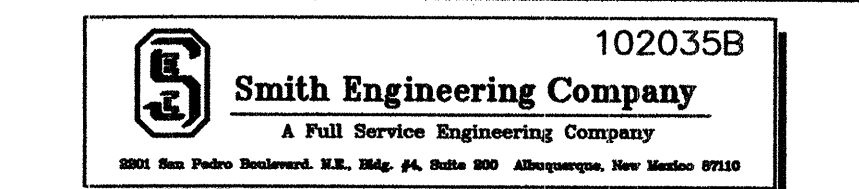
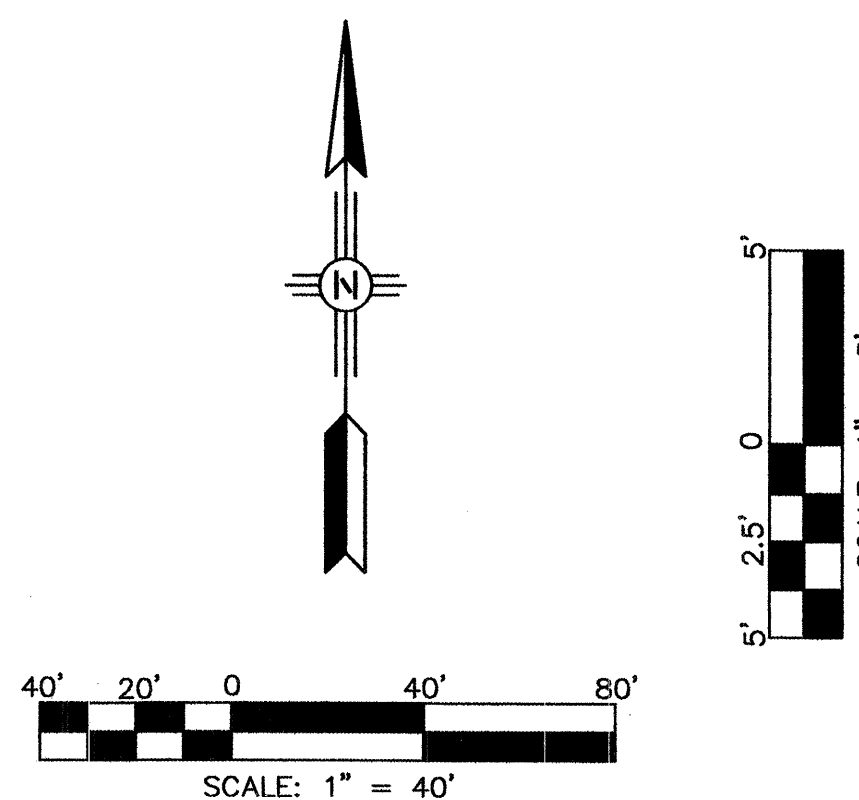
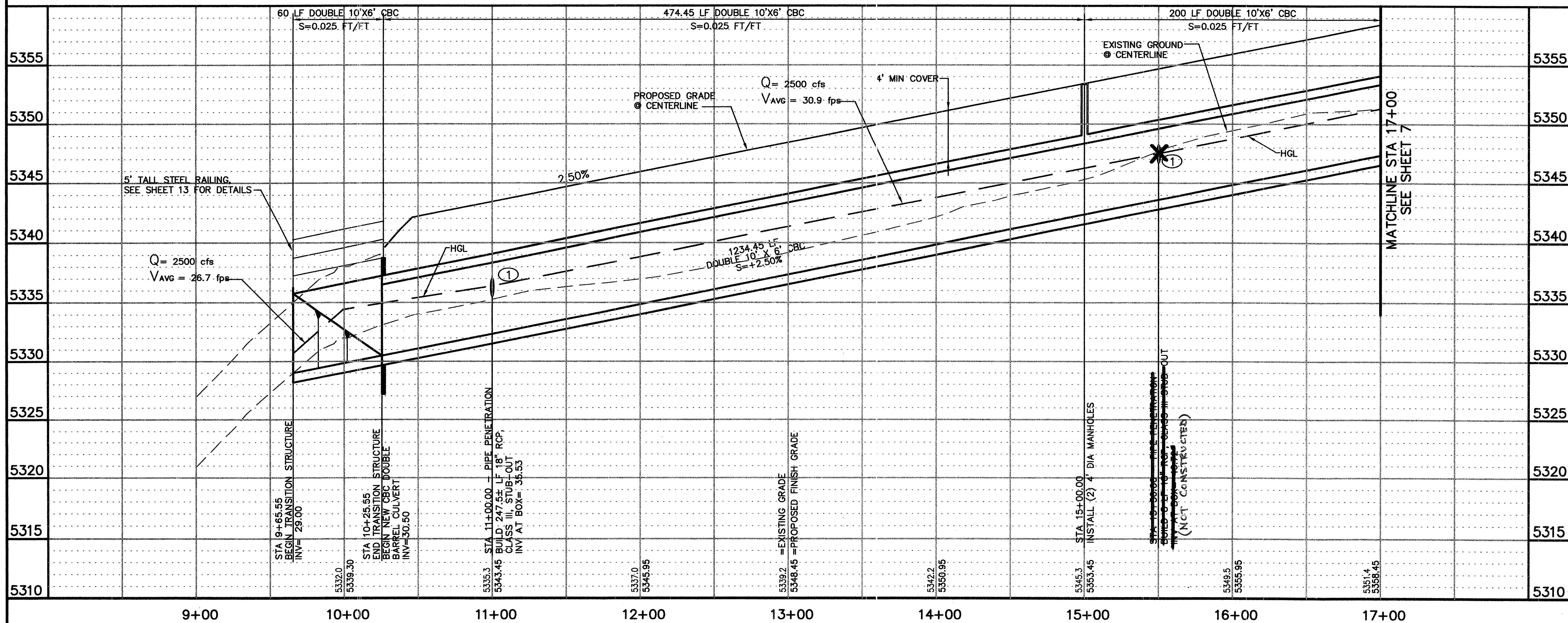
**TITLE: NORTH DOMINGO BACA PARK
PHASE 4 CONSTRUCTION - BOX CULVERT
REMOVAL PLAN**

Design Review Committee 	City Engineer Approval 	Last Design Update	No. / Day / Yr.	No. / Day / Yr.
City Project No. 7138.92		Zone Map No. C-19	Sheet 4	Of 14

City Project No.	7138.92	Zone Map No.	C-19	Sheet	4	Of	14
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- GENERAL NOTES:**
- ALL CONCRETE PIPES LARGER THAN 24" SHALL BE CLASS IV.
- KEYED NOTES:** ○
- 18" PIPE PENETRATION. SEE PIPE PENETRATION DETAIL SHEET 12.
 - BUILD TYPE 'D' INLET PER COA STD DWG #2206.
 - BUILD 6" DIA STORMCEPTOR MANHOLE. CSR HYDRO CONDUIT, STC 900 PRECAST CONCRETE STORMCEPTOR, (900 GAL. CAPACITY) OR ACCEPTED EQUAL.



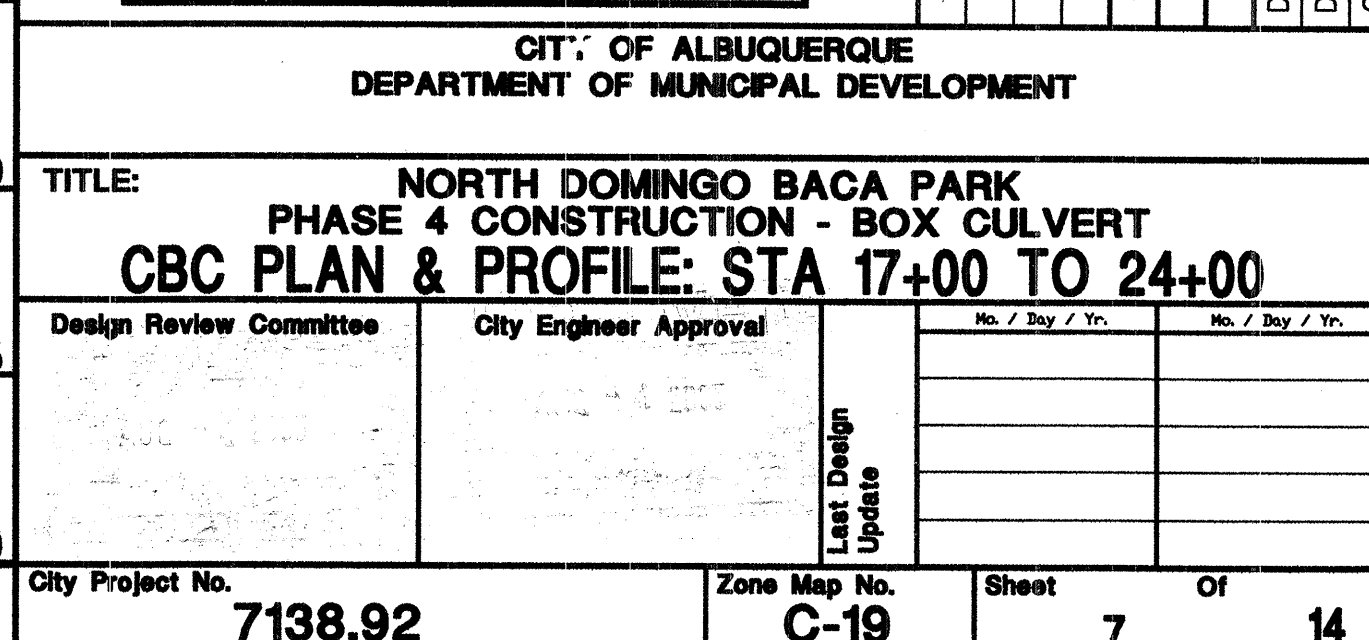
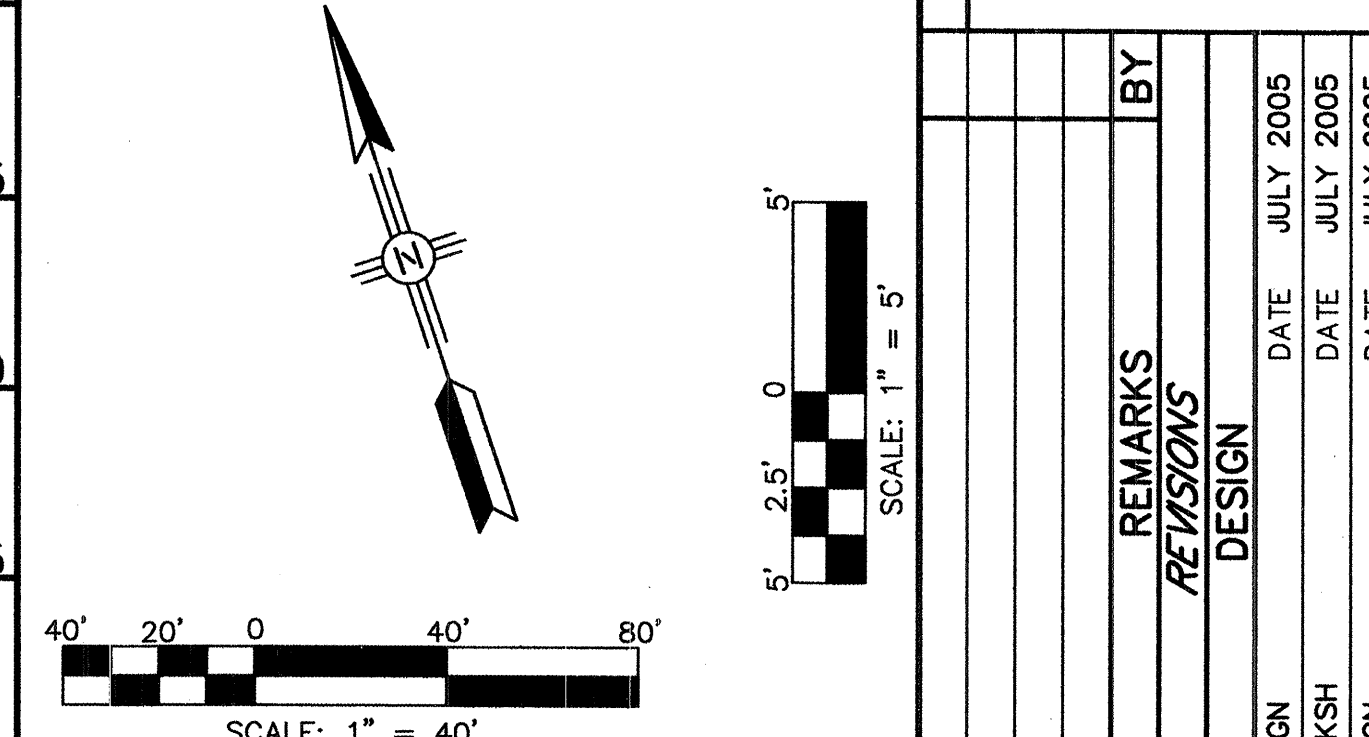
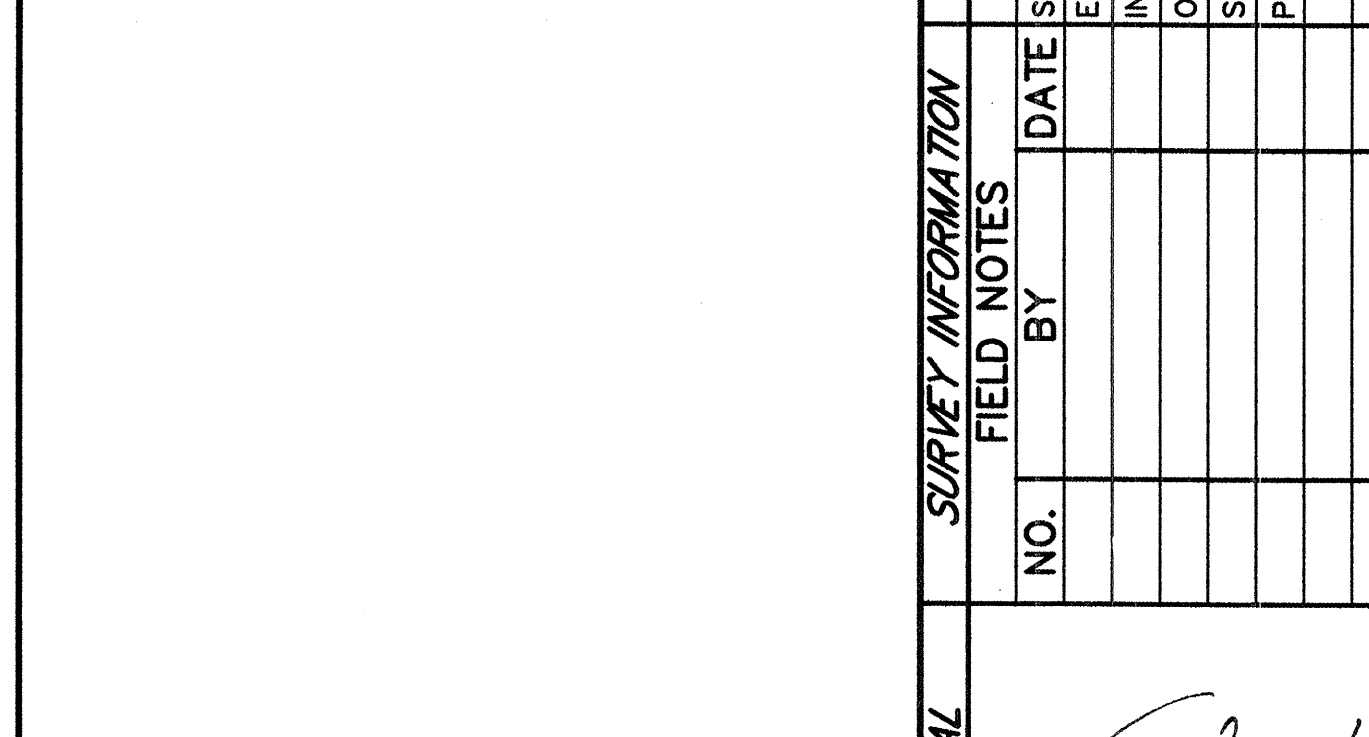
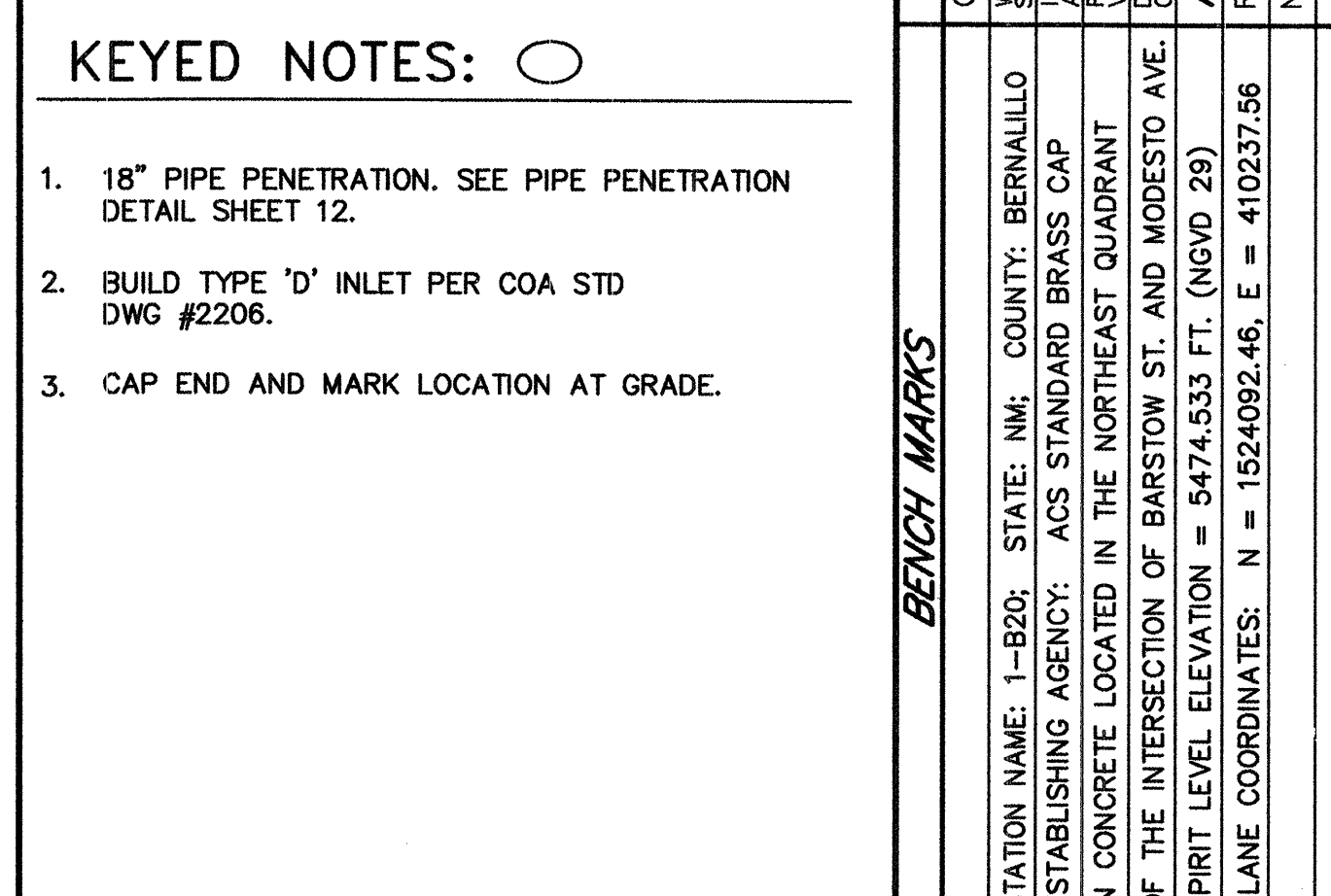
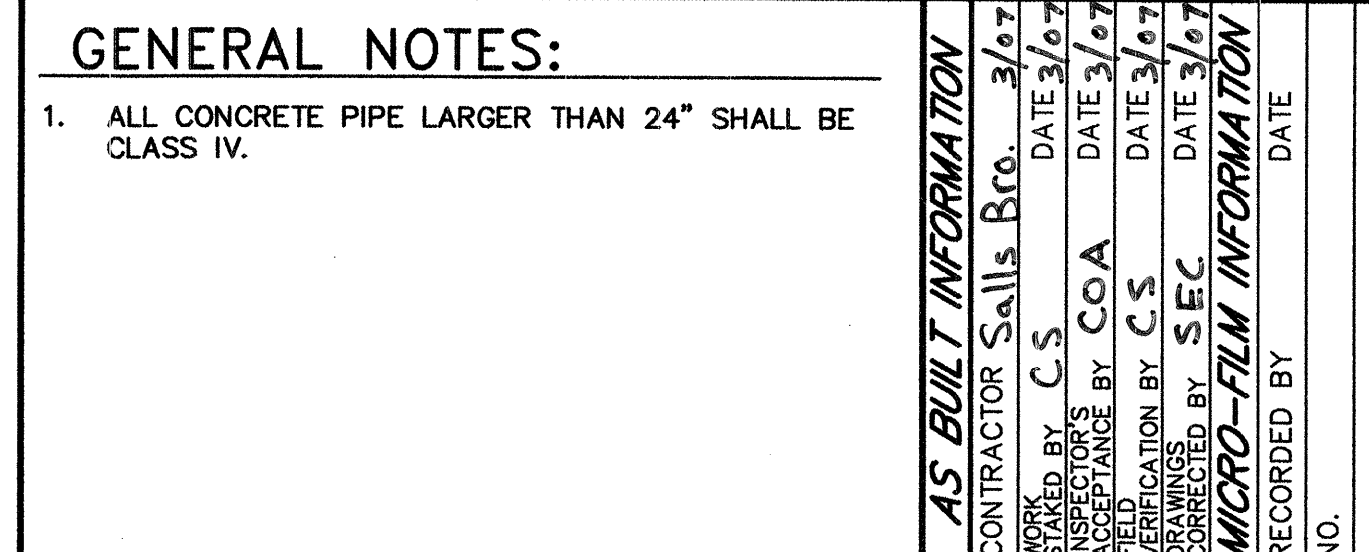
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

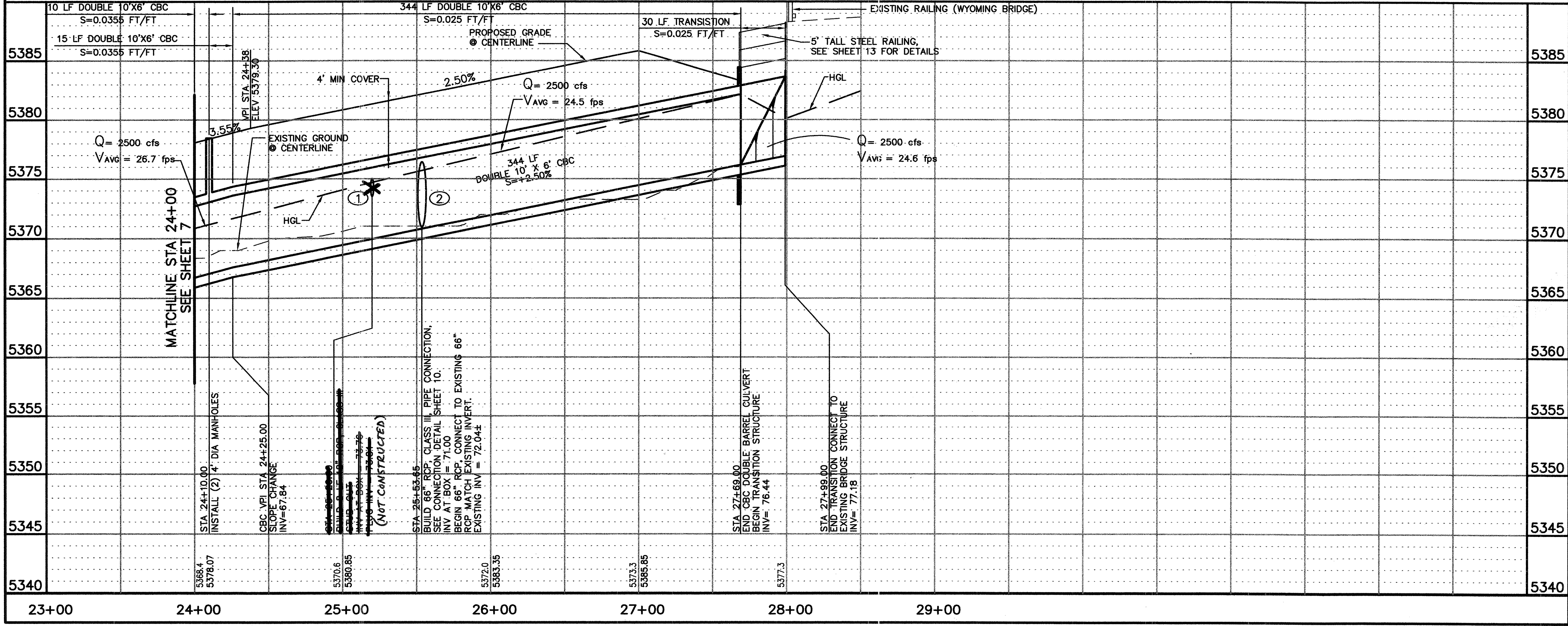
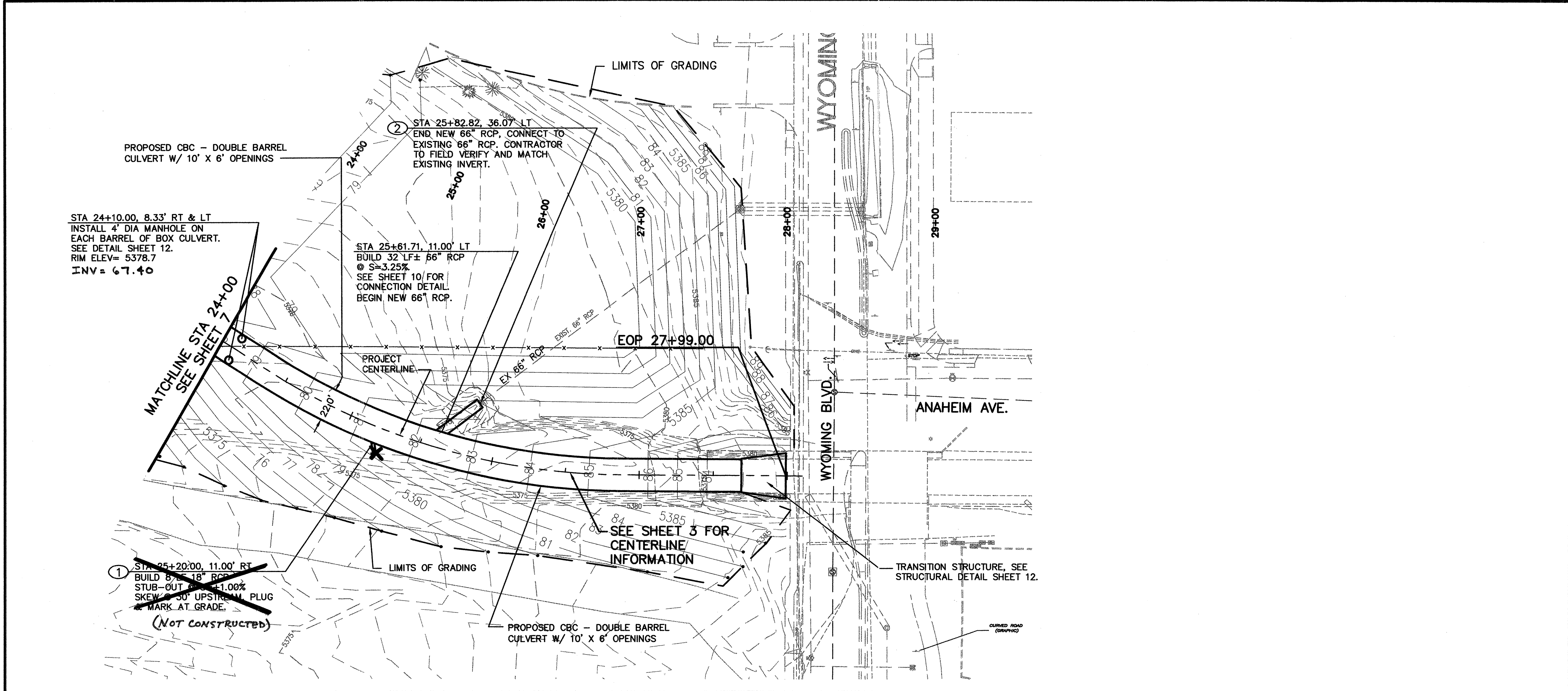
TITLE: NORTH DOMINGO BACA PARK
PHASE 4 CONSTRUCTION - BOX CULVERT
CBC PLAN & PROFILE: STA 9+65.55 TO 17+00

Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.

City Project No. 7138.92 Zone Map No. C-19 Sheet 6 of 14

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	SALL & BROS.	STATION NAME	1-B20	DATE	NO.		REMARKS REVISIONS DESIGN
WORK STARTED BY	C.S.	ESTABLISHING AGENCY	ACS STANDARD BRASS CAP	DATE	BY		
FIELD ACCEPTANCE BY	C.S.	IN CONCRETE LOCATED IN THE NORTHEAST QUADRANT		DATE	BY		
DRAWINGS CORRECTED BY	S.E.C.	OF THE INTERSECTION OF BARSTOW ST. AND MODESTO AVE.		DATE	BY		
MICRO-FILM INFORMATION		PLANE COORDINATES: N = 1524092.46, E = 410237.56		DESIGNED BY		DATE	
				DRAWN BY		DATE	
				CHECKED BY		DATE	





GENERAL NOTES:

- ALL CONCRETE PIPE LARGER THAN 24" SHALL BE CLASS IV.

KEYED NOTES: ○

- 18" PIPE PENETRATION. SEE 18" PIPE PENETRATION DETAIL SHEET 12.
- 66" PIPE CONNECTION. SEE 66" PIPE CONNECTION DETAIL SHEET 12.

AS BUILT INFORMATION

CONTRACTOR	DATE	BY
CS	3/07	CS
INSPECTED	DATE	BY
COA	3/07	CS
VERIFICATION	DATE	BY
SEC	3/07	CS
RECORD	DATE	BY
NO.		

ENGINEERS SEAL

REVISIONS

NO.	DATE	REMARKS
1	JULY 2005	DESIGN
2	JULY 2005	
3	JULY 2005	

DESIGNED BY: GN
DRAWN BY: KSH
CHECKED BY: GN

SMITH ENGINEERING COMPANY
1020358
A Full Service Engineering Company
2000 San Pedro Boulevard, N.E., Suite 100, Albuquerque, New Mexico 87109

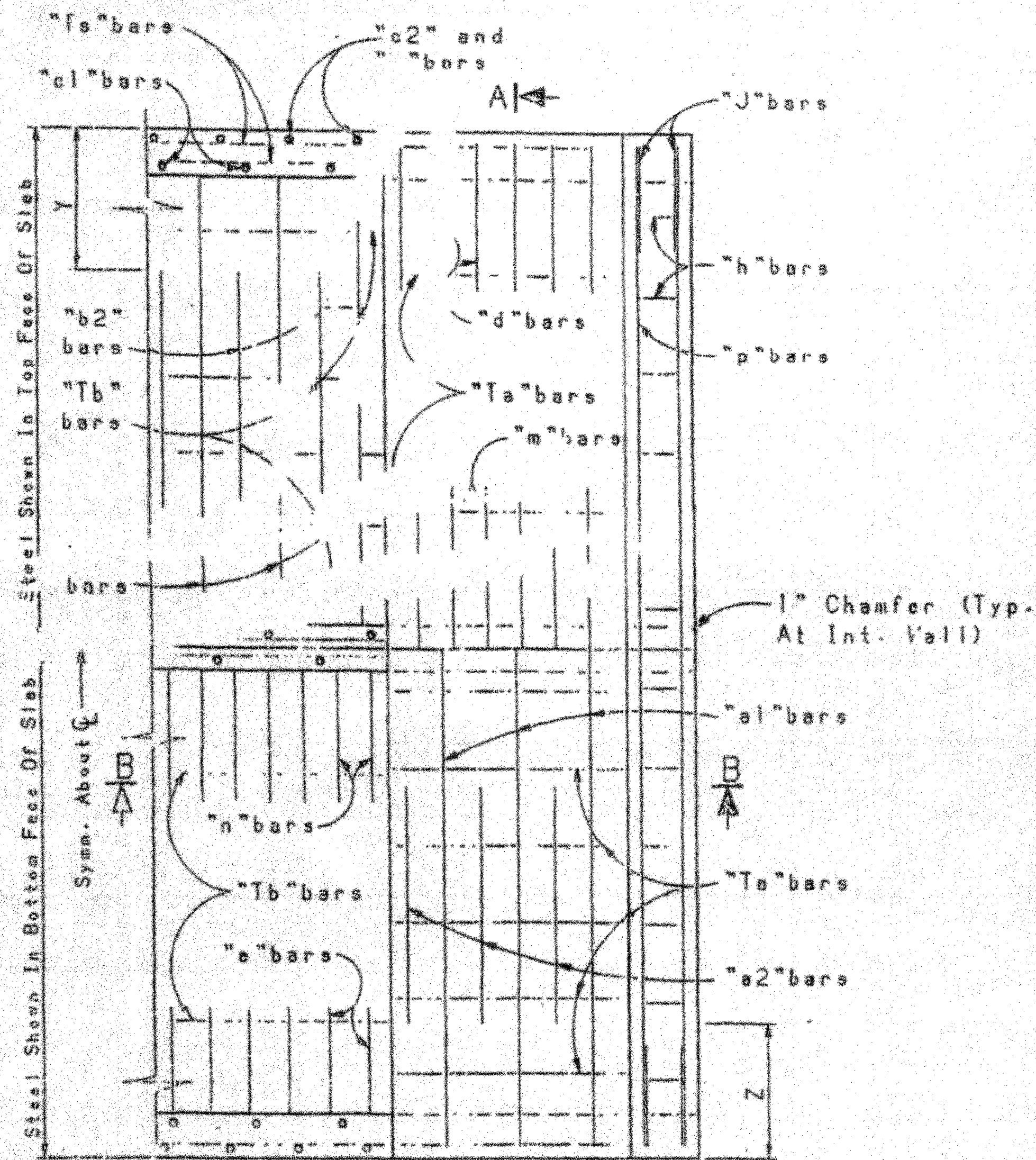
CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TITLE: NORTH DOMINGO BACA PARK
PHASE 4 CONSTRUCTION - BOX CULVERT
CBC PLAN & PROFILE: STA 24+00 TO 27+99

Design Review Committee: [Signature]
City Engineer Approval: [Signature]

City Project No. **7138.92**
Zone Map No. **C-19**
Sheet **8** of **14**

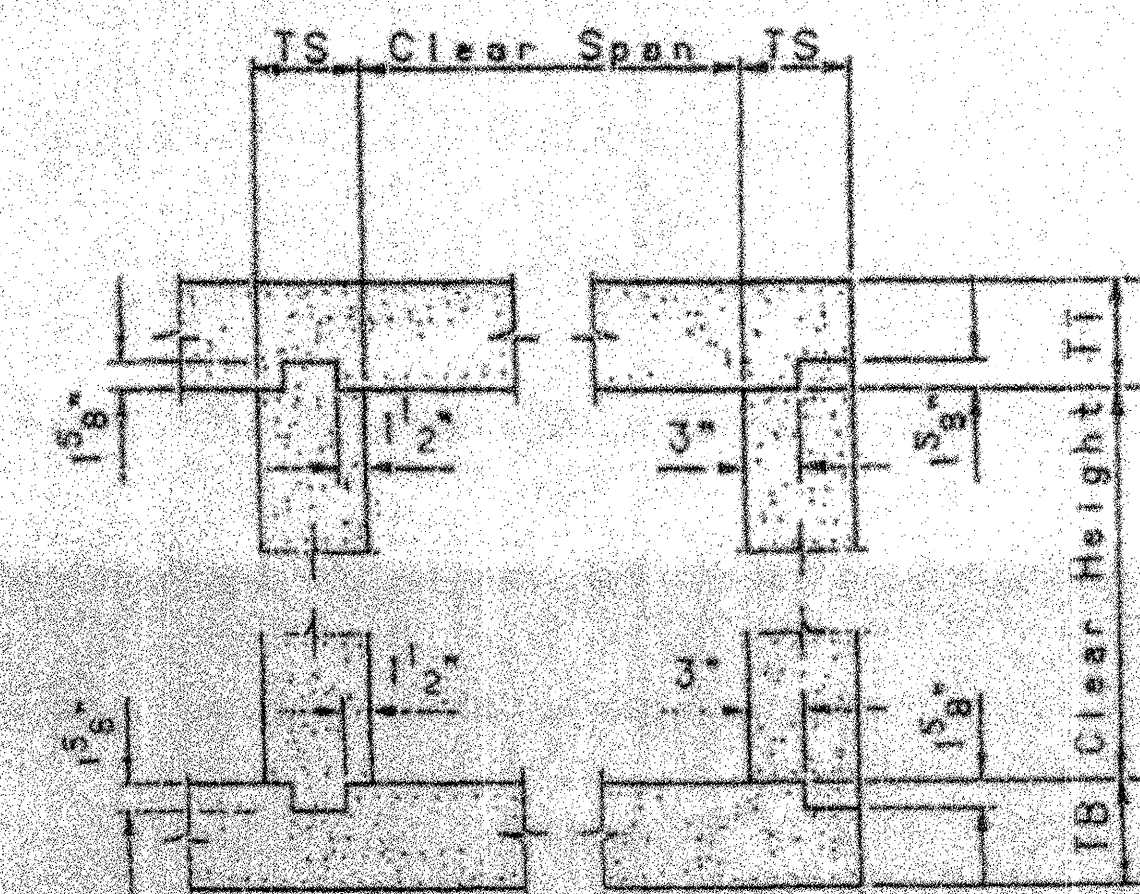
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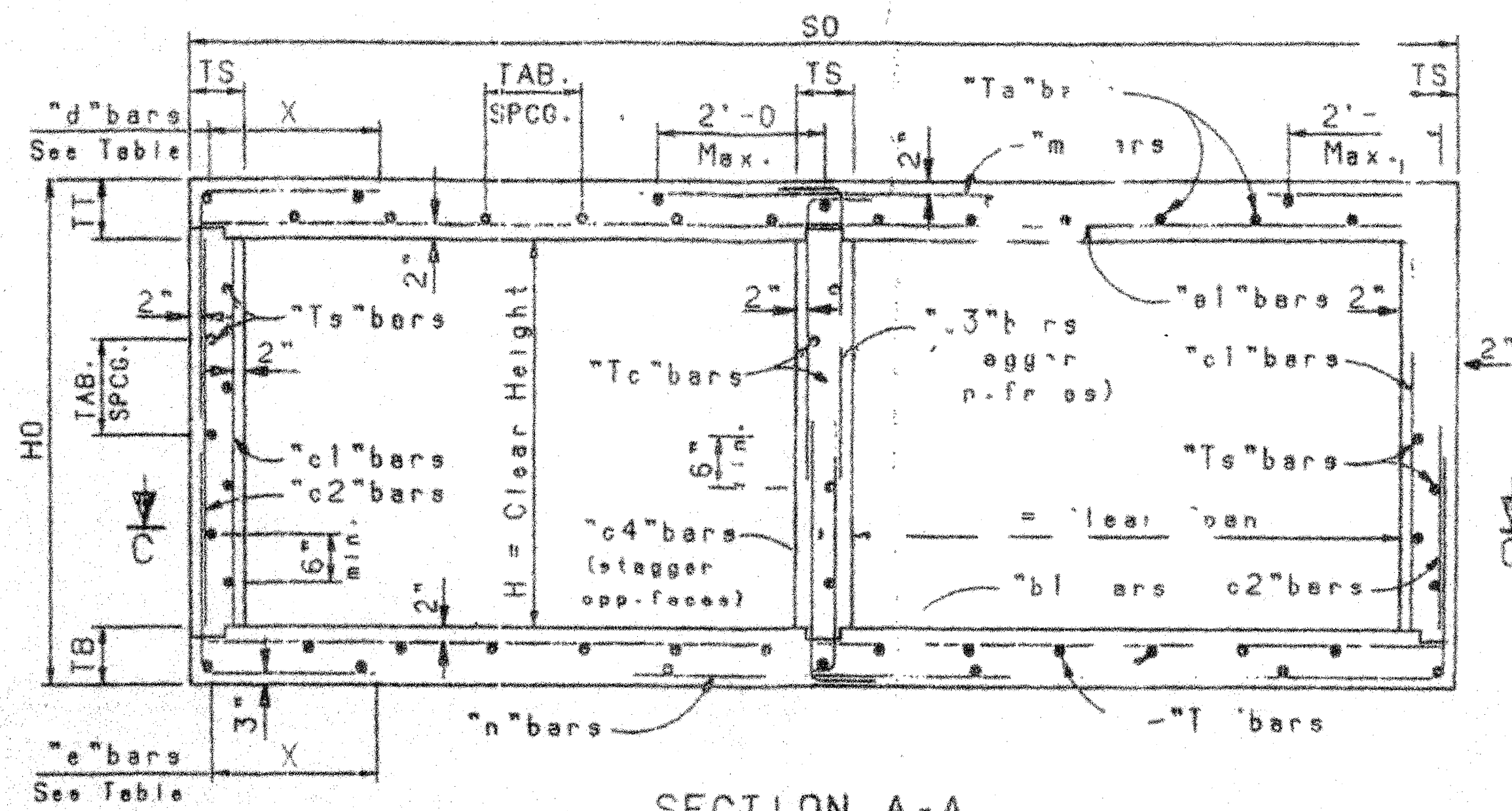
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PART SECTION C-C

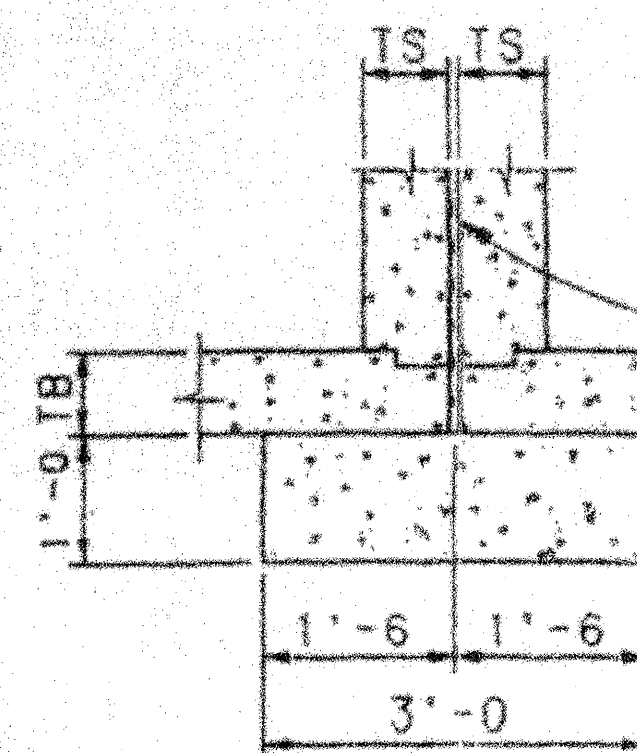
PART PLAN TOP SLAB



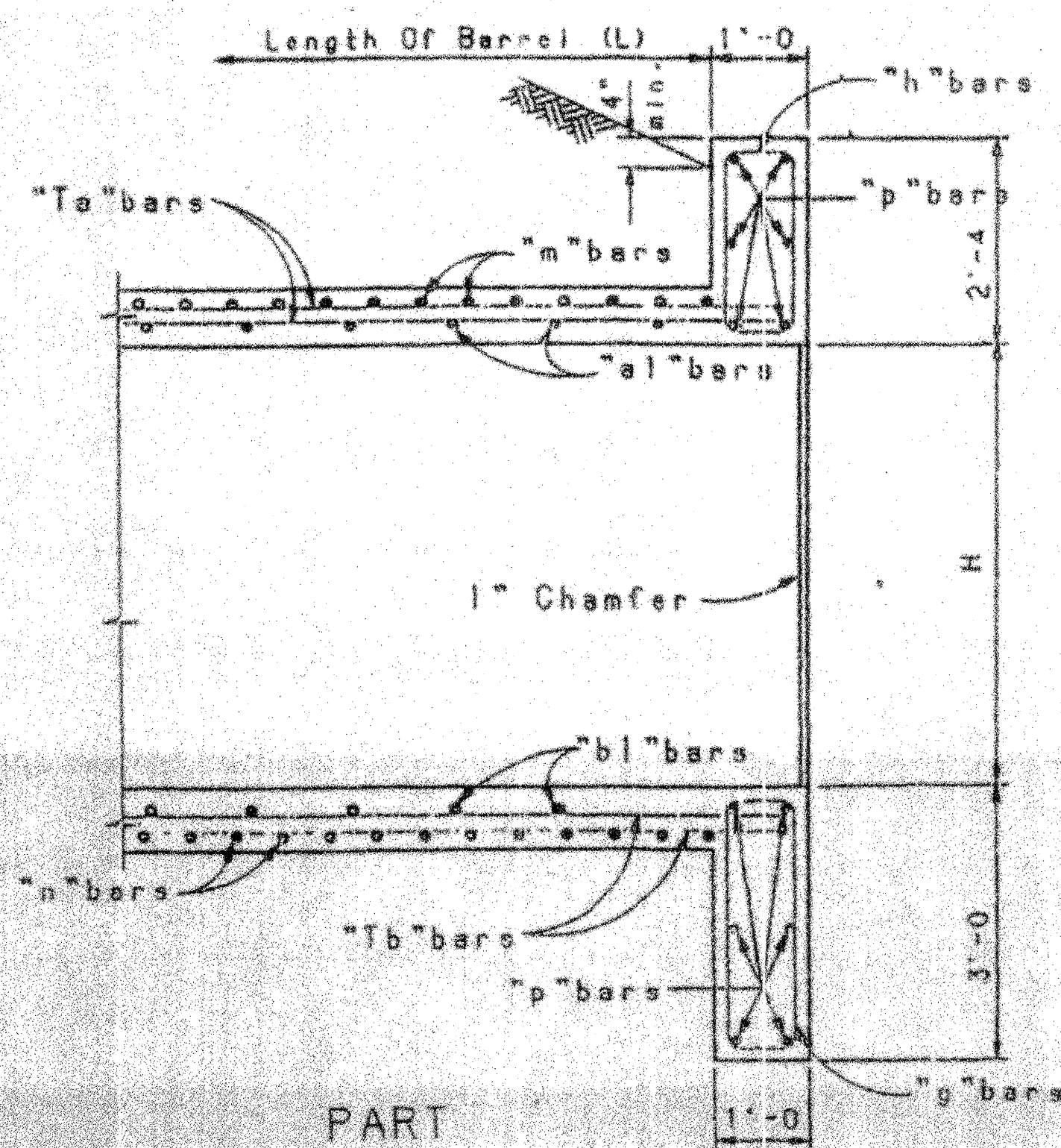
CONSTRUCTION JOINT DETAIL



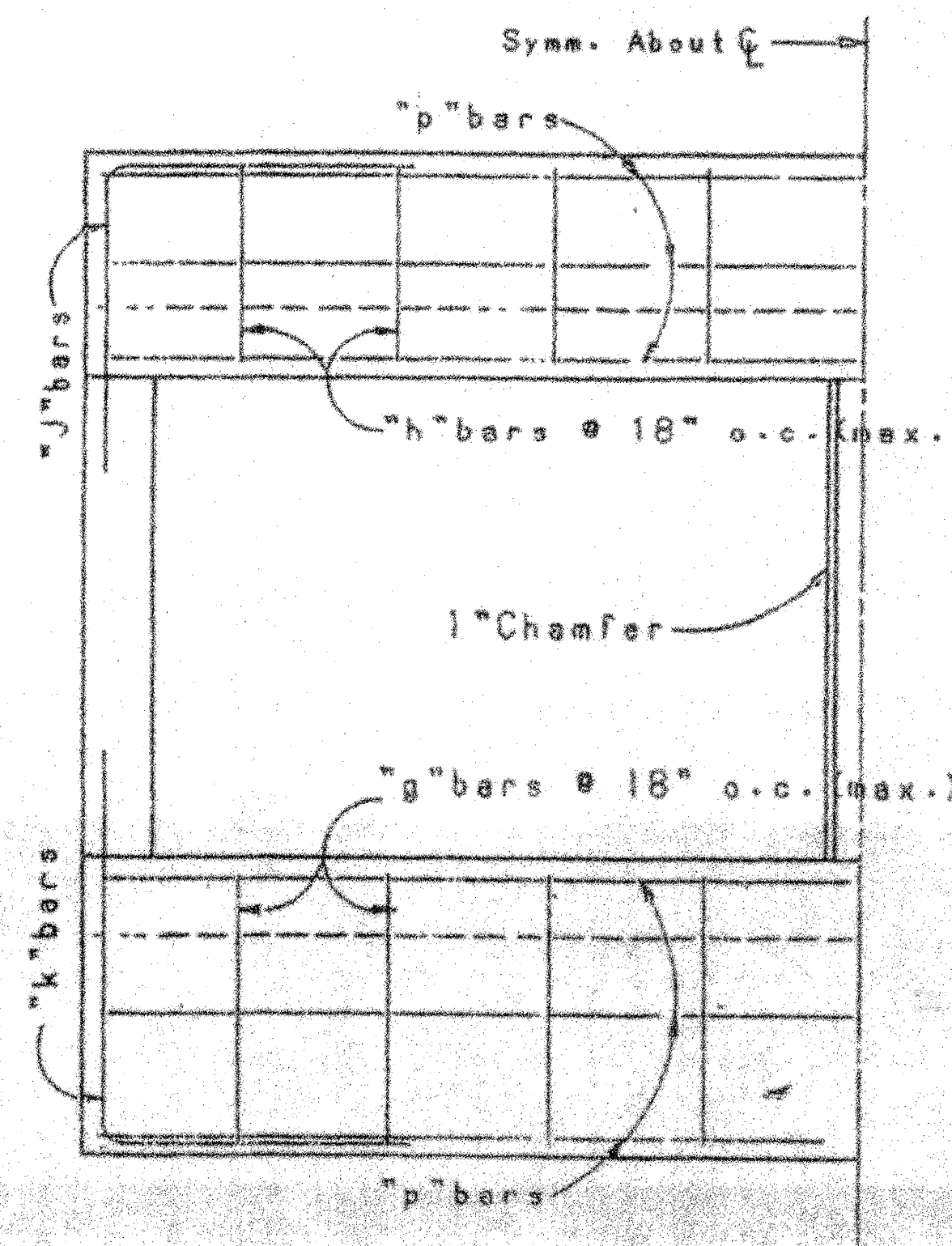
SECTION A-A



JOINT DETAIL FOR MULTIPLE UNIT BOXES



PART SECTION B-B



PART END ELEVATION

GENERAL NOTES

- ALL CONCRETE SHALL BE CLASS "A". CHAMFER ALL EXPOSED EDGES 3/4".
- ALL REINFORCING STEEL TO BE DEFORMED BARS, CONFORMING TO AASHTO M-31, GRADE 60. ALL DIMENSIONS REFER TO THE CENTERLINE OF BAR.
- "T" BARS MAY BE SPLICED WHEN NECESSARY BY LAPPING AT LEAST 20 BAR DIAMETERS. PAY WEIGHT FOR REINFORCING STEEL DOES NOT INCLUDE SPLICES. COST OF THE SPLICE MATERIAL TO BE INCLUDED IN UNIT PRICE BID FOR REINFORCING STEEL.
- VOLUME OF CONCRETE = (L) x (CONCRETE QUANTITY/LIN. FT.) PLUS CONCRETE AT ENDS.
- WEIGHT OF REINFORCING STEEL = (L) x (WEIGHT OF REINF./LIN.FT.) PLUS WEIGHT AT ENDS.
- PLACE "Ta" BARS ON "a" BARS AND "Tb" BARS UNDER "b" BARS, SPACED AS SHOWN IN THE TABLE. THE REMAINING "Tb" BARS, AND "Tc" BARS ARE TO BE PLACED ADJACENT TO THE "d", "e", "m", AND "n" BARS AS INDICATED IN "SECTION A-A".
- PLACE "Tc" BARS NEXT TO "c1" BARS, SPACED AS SHOWN IN THE TABLE. THE REMAINING "Tc" BARS TO BE PLACED IN SIDEWALL NEXT TO "c2", "d", AND "e" BARS. WHEN "c1" BARS ARE NOT REQUIRED PLACE ALL "Tc" BARS NEXT TO "c2", "d", AND "e" BARS.
- "COVER" IS HEIGHT OF FILL FROM TOP OF BOX TO FINISHED GRADE.

DESIGN DATA

DESIGN ACCORDING TO A.A.S.H.O. SPECIFICATIONS, 1957.
 LIVE LOAD: H20-S16-44 & INTERSTATE ALTERNATE LOADING
 WEIGHT OF FILL ON TOP OF BOX: 84#/CU.FT.
 HORIZONTAL EARTH PRESSURE: 30#/CU.FT., 2' SURCHARGE
 DESIGN STRESSES: $f'_c = 3000$ psi, $f_s = 1200$ psi,
 $f_s = 20,000$ psi, $n = 10$.

6			
5			
4			
3			
2			
1	REVISED NOTE #2	6-7-94	PH
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
CONCRETE BOX CULVERT BARRELS DOUBLE OPENING - NORMAL ALL DESIGNS			
GENERAL DATA			
LAYOUT BY	APPROVAL	RECORDED	DATE
DRAWN BY	APPROVED	APPROVED	DATE
CHECKED BY	APPROVED	APPROVED	DATE
SERIAL CB-32			
SHEET 1 OF 5			

DESIGNED BY: H.T. 10/60
 CHECKED BY: L.A.K. 2/93

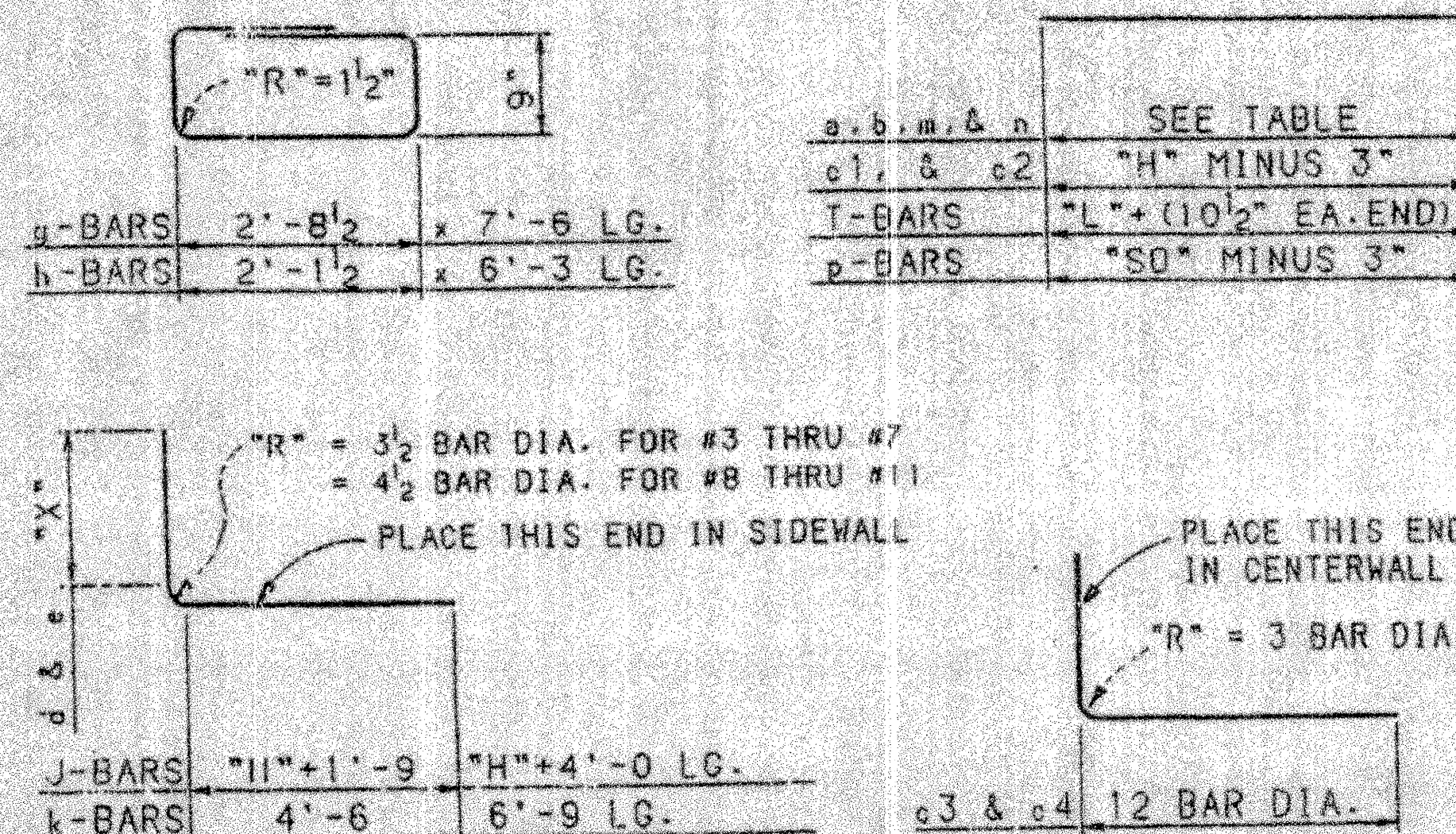
CHECKED BY: _____
CHECKED BY: _____

DESIGNED BY: H.T. 10/60
 CHECKED BY: L.A.K. 2/93

CLEAR SPAN	CLEAR HEIGHT	DIMENSIONS							QUANTITIES				REINFORCING BARS																																																
		TT	TS	TB	SO	HO	Y	Z	PER L.F. OF BARREL		AT ONE END %		"a1"			"a2"			"b1"			"b2"			"c1"			"c2"			"c3"			"c4"			"m"			"n"			"d"			"e"			"T _a "			"T _b "			"T _c "			"T _s "			g.h.
									REIN. STEEL POUNDS PER L.F.	CONCRETE CU. YDS. PER L.F.	REIN. STEEL POUNDS PER L.F.	CONCRETE CU. YDS. PER L.F.	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	NO.	SIZE	SPACING	NO.	SIZE	SPACING	NO.	SIZE	SPACING	NO.	SIZE	SPACING				
4	2	6 1/2	6"	7"	9'-6"	3'-1 1/2	----	----	77.2	0.507	239	1.99	#6	9'-3"	9"	--	NONE	--	#4	9'-3"	12"	--	NONE	--	NONE	NONE	#4	2'-3"	12"	#4	2'-3"	12"	#5	4'-6"	9"	#5	4'-6"	12"	#5	3'-9"	1'-7"	12"	#4	4'-3"	1'-6"	12"	13	#4	18"	13	#4	18"	3	#4	18"	4	#4	18"	6		
	3	7"	6"	7"	9'-6"	4'-2	----	----	80.9	0.577	245	2.05	#6	9'-3"	9"	--	NONE	--	#4	9'-3"	12"	--	NONE	--	NONE	NONE	#4	2'-9"	12"	#4	2'-9"	12"	#5	4'-6"	9"	#5	4'-6"	12"	#5	4'-3"	1'-7"	12"	#4	4'-9"	1'-6"	12"	13	#4	18"	13	#4	18"	4	#4	22"	4	#4	22"	6		
	4	7"	6"	7"	9'-6"	5'-2	----	----	86.4	0.633	241	2.10	#6	9'-3"	9"	--	NONE	--	#4	9'-3"	12"	--	NONE	--	NONE	NONE	#4	3'-3"	12"	#4	3'-3"	12"	#5	4'-6"	9"	#5	4'-6"	12"	#4	4'-6"	1'-7"	9"	#4	5'-3"	1'-6"	9"	13	#4	18"	13	#4	18"	5	#4	18"	6	#4	18"	6		
6	2	7 1/2	6"	7 1/2	13'-6"	3'-3	1'-4	----	116.2	0.736	316	2.78	#6	13'-3"	7 1/2	--	NONE	--	#4	13'-3"	13"	#4	4'-3"	13"	NONE	NONE	#5	2'-6"	14"	#5	2'-6"	14"	#5	4'-3"	6 1/2	#5	5'-3"	6 1/2	#5	3'-9"	1'-10	8 1/2	#4	3'-6"	1'-8	8 1/2	16	#4	18"	16	#4	18"	3	#4	18"	4	#4	18"	8		
	3	7 1/2	6"	7 1/2	13'-6"	4'-3	1'-4	----	120.3	0.792	322	2.84	#6	13'-3"	7 1/2	--	NONE	--	#4	13'-3"	13"	#4	4'-3"	13"	NONE	NONE	#5	3'-3"	14"	#5	2'-9"	14"	#6	4'-3"	9 1/2	#5	5'-6"	8 1/2	#5	4'-3"	1'-9	9"	#4	4'-0"	1'-8	9"	16	#4	18"	16	#4	18"	4	#4	18"	4	#4	22"	8		
	4	7 1/2	6"	7 1/2	13'-6"	5'-3	1'-4	----	123.4	0.847	331	2.89	#6	13'-3"	7 1/2	--	NONE	--	#4	13'-3"	13"	#4	4'-3"	13"	NONE	NONE	#5	4'-3"	15"	#5	3'-0"	15"	#6	4'-3"	10"	#5	5'-6"	8 1/2	#5	4'-9"	1'-9	10"	#4	4'-6"	1'-8	10"	16	#4	18"	16	#4	18"	5	#4	18"	5	#4	18"	8		
8	2	8"	6"	8"	17'-6"	6'-3	1'-4	----	132.5	0.903	340	2.95	#6	13'-3"	7"	--	NONE	--	#4	13'-3"	13"	#4	4'-3"	13"	NONE	NONE	#5	5'-3"	15"	#5	3'-0"	15"	#6	4'-3"	10"	#5	5'-6"	8 1/2	#5	5'-3"	1'-9	10"	#4	5'-3"	1'-9	10"	16	#4	18"	16	#4	18"	7	#4	18"	8	#4	18"	8		
	3	8"	6"	8"	17'-6"	7'-3	1'-4	----	138.4	0.958	374	3.01	#6	13'-3"	7"	--	NONE	--	#4	13'-3"	13"	#4	4'-3"	13"	NONE	NONE	#5	6'-3"	15"	#5	3'-0"	15"	#6	4'-3"	10"	#5	5'-6"	8 1/2	#6	6'-0"	1'-9	14"	#5	5'-9"	1'-9	14"	16	#4	18"	16	#4	18"	7	#4	18"	8	#4	18"	8		
	4	8"	6"	8"	17'-6"	8'-4 1/2	1'-6	1'-3	176.5	1.113	553	3.68	#6	17'-3"	18"	#8	6'-8	18"	#4	17'-3"	11"	#4	6'-0"	11"	NONE	NONE	#6	3'-9"	16"	#6	3'-9"	16"	#6	5'-6"	7"	#6	6'-9"	7"	#6	5'-6"	1'-11	11"	#5	4'-6"	1'-10	11"	24	#4	15"	22	#4	15"	5	#4	18"	6	#4	18"	12		
10	4	9"	6 1/2	10"	21'-7 1/2	5'-7	1'-8	1'-6	240.9	1.509	796	4.51	#5	21'-3"	8 1/2	#5	8'-0	8 1/2	#4	21'-3"	12"	#5	7'-9	12"	NONE	NONE	#6	4'-9	16"	#6	3'-0"	16"	#8	9'-0	10"	#8	8'-6	10"	#6	5'-3"	2'-0	10"	#5	5'-3"	2'-0	10"	32	#4	12"	32	#4	12"	5	#4	18"	6	#4	18"	14		
	5	9"	6"	10"	21'-6	6'-7	1'-6	1'-6	252.9	1.539	828	4.53	#6	21'-3"	12"	#6	8'-0	12"	#4	21'-3"	12"	#5	8'-0	12"	NONE	NONE	#5	5'-6	11 1/2	#5	3'-0"	11 1/2	#7	8'-3	7 1/2	#7	8'-3	8"	#7	6'-0	2'-3	12"	#6	6'-0	2'-3	12"	32	#4	12"	32	#4	12"	7	#4	18"	8	#4	18"	14		
	6	9"	6"	10"	21'-6	7'-7	1'-6	1'-6	251.9	1.594	827	4.59	#5	21'-3"	10 1/2	#6	8'-0	10 1/2	#4	21'-3"	12"	#5	8'-0	12"	NONE	NONE	#4	6'-0	7 1/2	#4	3'-0"	7 1/2	#7	8'-3	7 1/2	#7	8'-3	7 1/2	#7	5'-3	2'-5	12"	#6	8'-3	2'-6	12"	28	#4	14"	25	#4	18"	9	#4	18"	10	#4	18"	14		
12	7	9"	7"	10"	21'-9	8'-7	1'-6	1'-0	285.4	1.729	855	4.76	#6	21'-6	14"	#7	8'-9	14"	#5	21'-6	14"	#5	8'-0	14"	NONE	NONE	#4	12"	#5	7'-3	9 1/2	#5	3'-0"	8 1/2	#7	8'-9	7 1/2	#7	7'-9	7 1/2	#7	7'-0	3'-0	12"	#6	6'-0	2'-9	12"	24	#5	18"	24	#4	18"	9	#4	18"	10	#4	18"	14
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	9	9"	8"	10"	22'-0	10'-7	1'-6	----	312.2	1.957	919	5.04	#7	21'-9	9"	--	NONE	--	#5	21'-9	15"	#5	8'-3	15"	#4	17"	#4	13"	#5	9'-3	12"	#5	3'-0"	12"	#7	9'-3	8"	#7	7'-9	7 1/2	#7	7'-6	3'-6	11 1/2	#7	6'-6	3'-0	13"	25	#5	18"	24	#4	18"	12	#4	18"	24	#4	18"	14
14	10	9"	9"	10"	22'-3	11'-7	1'-6	----	325.9	2.138	884	5.23	#7	22'-0	9"	--	NONE	--	#5	22'-0	18"	#6	8'-6	18"	#4	13"	#4	10"	#4	10'-0	9"	#4	3'-0"	9"	#8	9'-6	10 1/2	#8	8'-6	9 1/2	#6	8'-0	3'-9	9"	#6	7'-0	3'-3	10"	25	#5	18"	24	#4	18"	13	#4	18"	28	#4	18"	14
	11	9"	9"	10"	22'-3	12'-7	1'-6	1'-0	332.7	2.221	953	5.39	#5	22'-0	11"	#6	8'-9	11"	#5	22'-0	14"	#5	8'-3	14"	#4	12"	#4	12"	#5	11'-3	15"	#5	3'-0"	15"	#7	10'-0	7 1/2	#7	8'-3	7"	#7	7'-6	3'-6	12"	#7	6'-9	3'-3	12"	25	#5	18"	24	#4	18"	15	#4	18"	30	#4	18"	14
	12	9 1/2	9"	10"	22'-3	13'-7 1/2	1'-6	1'-0	373.2	2.339	954	5.54	#5	22'-0	14"	#7	8'-0	14"	#4	22'-0	15"	#6	8'-3	15"	#5	14"	#4	8"	#7	13'-9	14"	#7	3'-3	14"	#7	10'-3	8"	#7	8'-3	7"	#6	7'-3	3'-4	8"	#6	7'-3	3'-4	8"	30	#4	14"	25	#4	18"	15	#4	18"	30	#4	18"	14
16	6	10 1/2	6 1/2	11 1/2	25'-7 1/2	7'-10	2'-2	1'-9	304.7	2.101	1127	5.43	#4	25'-3	9"	#6	9'-6	9"	#5	25'-3	12"	#5	8'-9	12"	NONE	NONE	#6	6'-9	16"	#6	3'-3	16"	#8	9'-6	8"	#8	9'-6	8 1/2	#6	6'-3	2'-1	8"	#5	6'-6	2'-0	8"	36	#4	12"	32	#4	14"	7	#4	18"	8	#4	18"	16		
	8	10 1/2	8"	11 1/2	26'-0	9'-10	2'-2	1'-11	342.6	2.359	1203	5.74	#5	25'-9	13"	#7	9'-6	13"	#5	25'-9	12"	#5	9'-0	12"	#4	18"	NONE	#5	8'-6	10"	#5	3'-3	10"	#7	9'-3	6 1/2	#7	9'-3	6 1/2	#7	7'-9	2'-8	11"	#6	9'-0	3'-5	11"	36	#4	12"	32	#4	14"	11	#4	18"	20	#4	18"	16	
	10	10 1/2	9"	11 1/2	26'-3	11'-10	2'-0	2'-0	372.5	2.616	1254	6.05	#5	26'-0	13"	#7	9'-6	13"	#5	26'-0	12"	#5	9'-3	12"	#4	12"	#5	12"	#5	10'-6	13"	#5	3'-3	13"	#7	9'-3	6 1/2	#7	9'-3	6 1/2	#7	7'-6	3'-3	11"	#7	7'-6	3'-6	12"	36	#4	12"	30	#4	18"	15	#4	18"	30	#4	18"	16
18	8	12 1/2	8"	13"	30'-0	10'-15	3'-1	2'-2	423.9	2.954	1686	6.53	#6	29'-9	12"	#7	11'-3	12"	#5	29'-9	13"	#6	9'-3	13"	#4	18"	NONE	#5	8'-9	14"	#5	3'-3	14"	#8	12'-0	7"	#8	12'-0	7 1/2	#8	10'-3	4'-0	13"	#7	8'-9	3'-9	13"	32	#5	17"	38	#4	14"	11	#4	18"	20	#4	18"	20	
	10	12"	9"	13"	30'-3	12'-1	3'-1	2'-2	456.1	3.167	1729	6.84	#5	30'-0	12"	#7	11'-3	12"	#5	30'-0	12"	#6	9'-3	12"	#4	18"	#6	11 1/2	#5	10'-9	14"	#5	3'-3	14"	#8	11'-0	7"	#8	10'-6	7"	#8	8'-3	4'-3	13"	#7	7'-3	4'-0	11 1/2	32	#5	17"	39	#4	13"	13	#4	18"	26	#4	18"	20
	12	12"	9"	13"	30'-3	14'-1	3'-1	2'-2	499.9	3.334	1777	7.12	#5	30'-0	12"	#7	11'-3	12"	#5	30'-0	10 1/2	#5	9'-3	10 1/2	#4	1"	#6	10"	#5	12'-9	14"	#5	3'-3	14"	#8	11'-0	7"	#8	10'-6	7"	#8	8'-6	4'-6	12"	#8	8'-3	4'-3	12"	32	#5	17"	38	#4	14"	15	#4	18"	30	#4	18"	20
20	14	12"	10"	13"	30'-6	16'-1	3'-1	2'-2	553.1	3.650	1833	7.59	#4	30'-3	10 1/2	#7	11'-3	10 1/2	#5	30'-3	10 1/2	#5	9'-3	10 1/2	#5	12"	#6	10 1/2	#5	14'-9	10 1/2	#5	3'-3	10 1/2	#8	11'-0	7"	#8	10'-6	7"	#8	8'-9	4'-9	10 1/2	#8	8'-6	4'-6	10 1/2	32	#5	17"	30	#4	14"	19	#4	18"	38	#4	18"	20

* NOTE: "QUANTITIES AT ONE END" INCLUDE PARAPET, CUT-OFF WALL, AND BARREL BEYOND LENGTH "L". WINGWALL QUANTITIES ARE NOT INCLUDED.

p-BARS						
CLEAR SPAN	4'	6'	8'	10'	12'	14'
SIZE	#5	#5	#6	#7	#8	#9



NOTE: J-BARS SAME SIZE AS "d-BARS".
k-BARS SAME SIZE AS "e-BARS".

REINFORCING STEEL DIAGRAM

NUMBER OF BARS REQUIRED

a1, b1, m, & n-BARS: 12L ÷ SPACING
s2, b2, c2, d, & e-BARS: 24L ÷ SPACING
p-BARS: 12 FOR CUT-OFF & PARAPET EACH END
c1, c3, & c4-BARS: (24L ÷ SPACING) PLUS
2 AT EACH END
J-BARS, & k-BARS: 4 OF EACH AT EACH END
OTHER BARS: SEE TABLE
"L" = LENGTH OF BARREL IN FEET
"E" = 10" FOR EACH END

NOTE: REFER TO SERIAL CB-32 SHEET 1 OF 5
FOR CONCRETE BOX CULVERT DETAILS,
DESIGN DATA, AND GENERAL NOTES.


6			
5			
4			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
REVISIONS (OR CHANGE NOTICES)			
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT			
CONCRETE BOX CULVERT BARRELS DOUBLE OPENING - NORMAL DESIGN No. 1			
DRAWN BY CHECKED BY	APPROVED RECHECKED APPROVED DIRECTOR OF HIGHWAY	DATE DATE DATE	11-1-53 11-1-53 11-1-53
SERIAL CB-32		SHEET 2 OF 3	

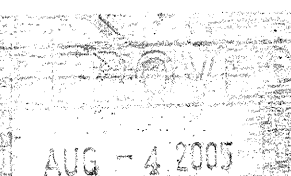
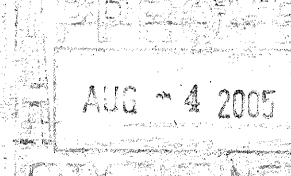
1. REFER TO NMDOT SERIAL CB-32, CONCRETE BOX CULVERT BARRELS DOUBLE OPENING FOR BASIC CONSTRUCTION. CONSTRUCT PER MODIFICATIONS SHOWN SHEETS 9 AND 10.

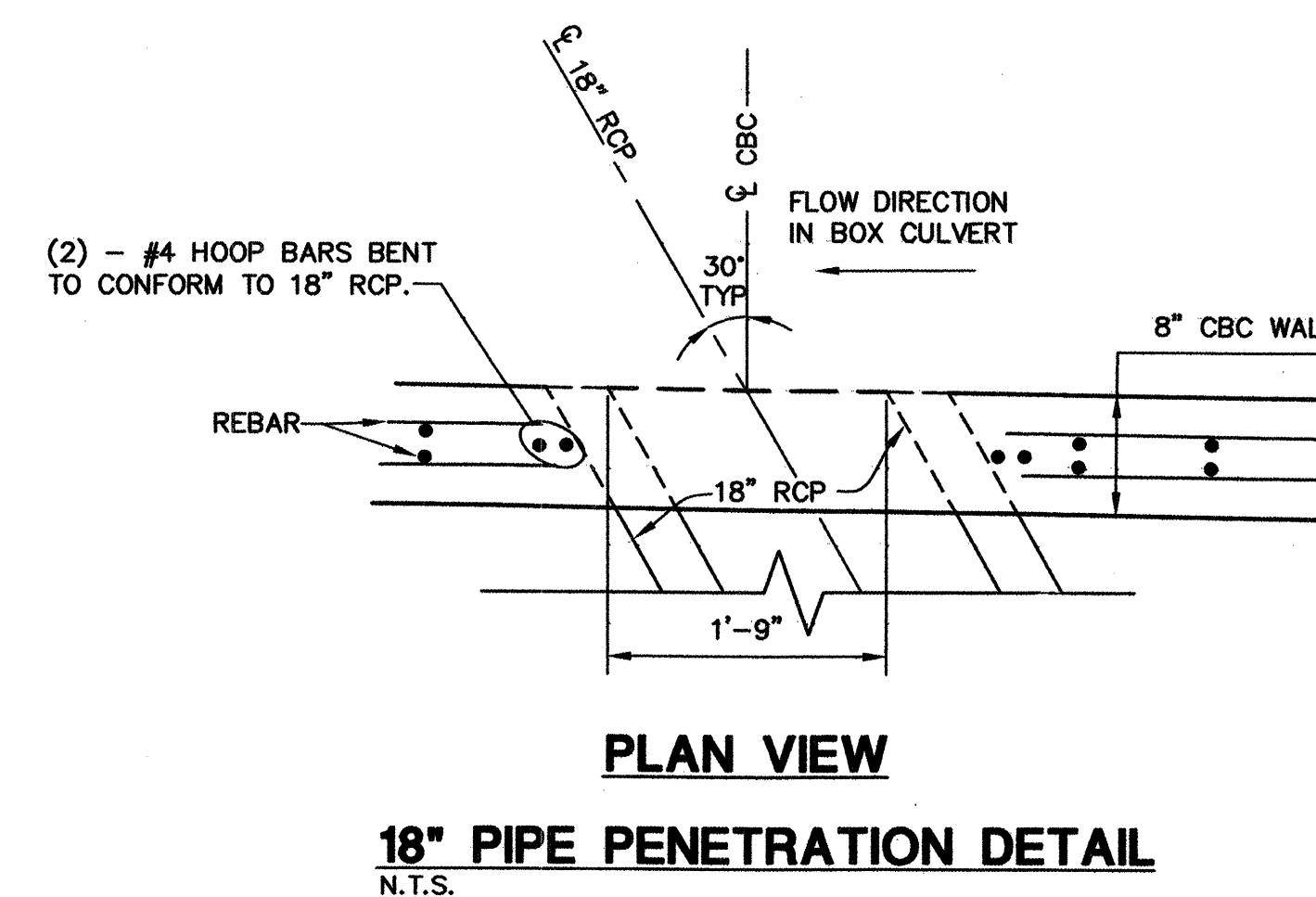
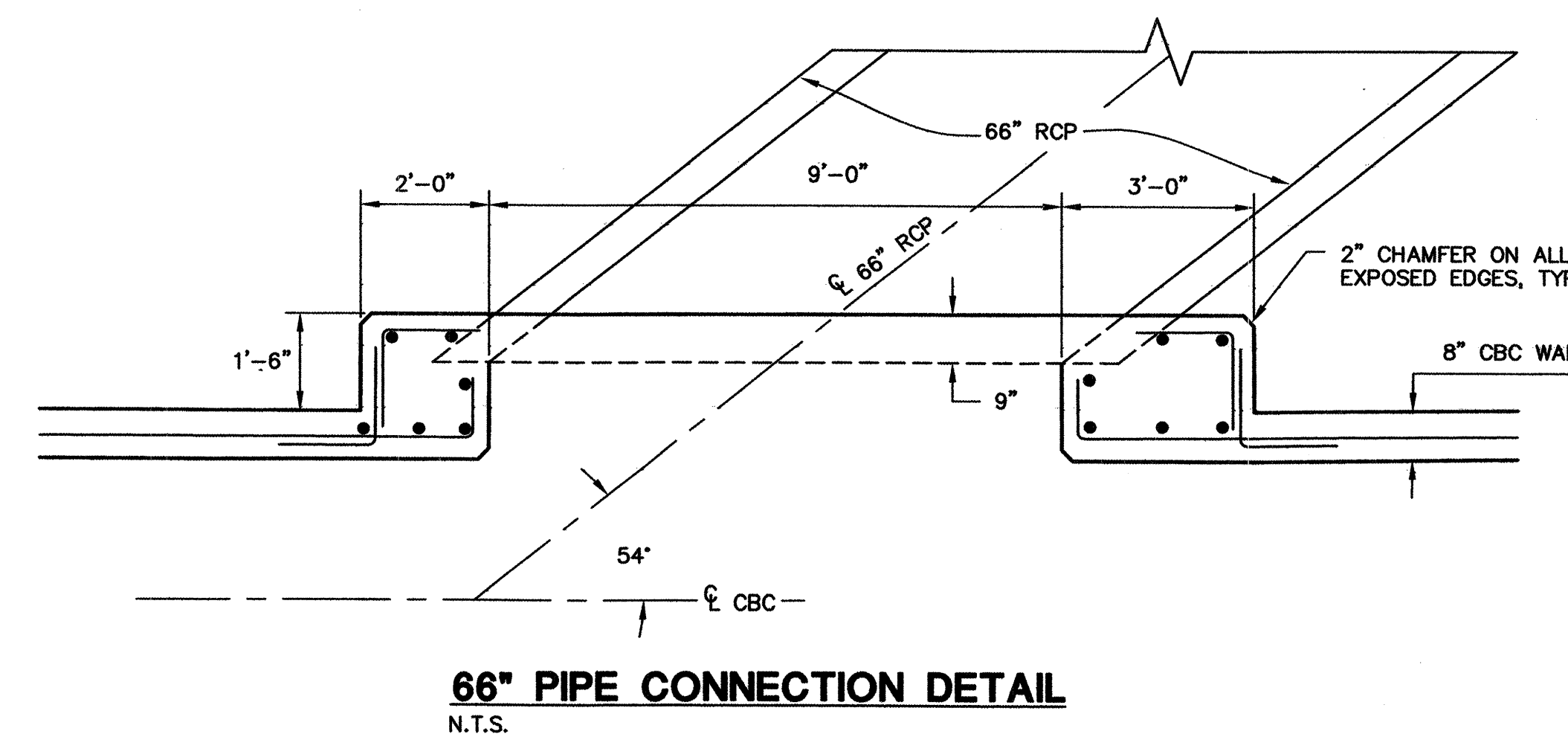
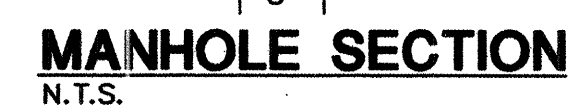
1. NMDOT REFERENCE "TS" (WALL THICKNESS) SHALL BE REVISED TO BE 8" WALL THICKNESS. AS PER SECTION DETAIL, THIS SHEET.
2. NMDOT REFERENCE "Ts & Tc BARS" (REBAR) SHALL BE REVISED TO USE TWO (2) - #4 BARS @ 9" O.C. EACH FACE AS PER SECTION THIS SHEET.
3. EXTEND BARS INTO SPLITTER WALLS AT ENDS OF BOX CULVERT.




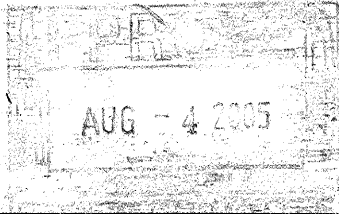
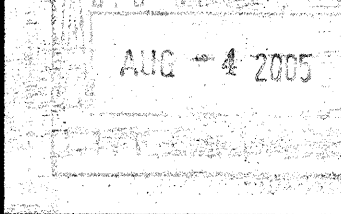
RECORD DRAWING

 Smith Engineering Company A Full Service Engineering Company 2225 San Pedro Boulevard, N.E., Bldg. 24, Suite 200 Albuquerque, New Mexico 87110		1020358							
								NO. DATE	DESIGNED BY
									DRAWN BY
									CHECKED BY

<p align="center">CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT</p>									
<p>TITLE:</p> <p align="center">NORTH DOMINGO BACA PARK PHASE 4 CONSTRUCTION - BOX CULVERT CONCRETE BOX CULVERT DETAILS</p>									
Design Review Committee 		City Engineer Approval 		Last Design Update	Mo. / Day / Yr.		Mo. / Day / Yr.		
City Project No. 7138.92		Zone Map No. C-19			Sheet		Of		
							11		14

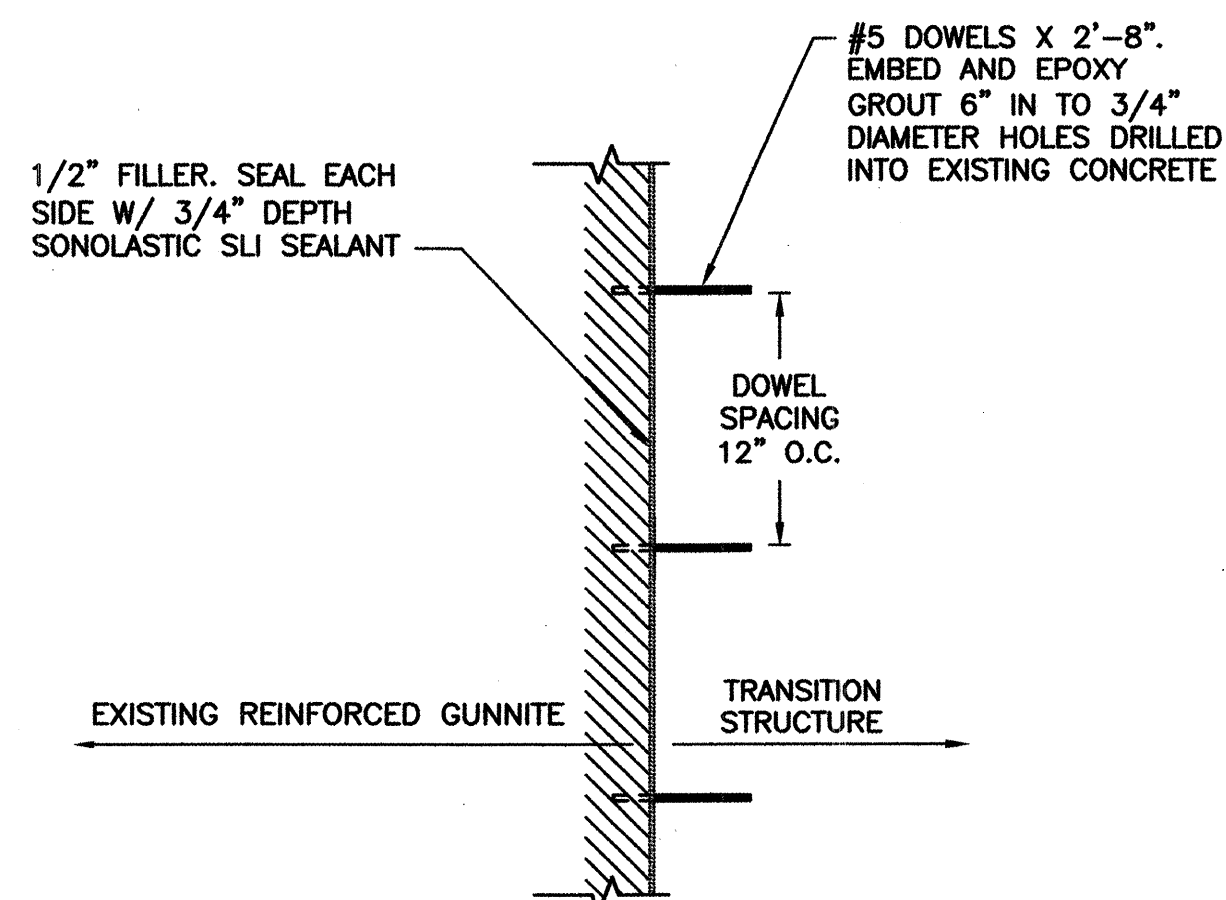
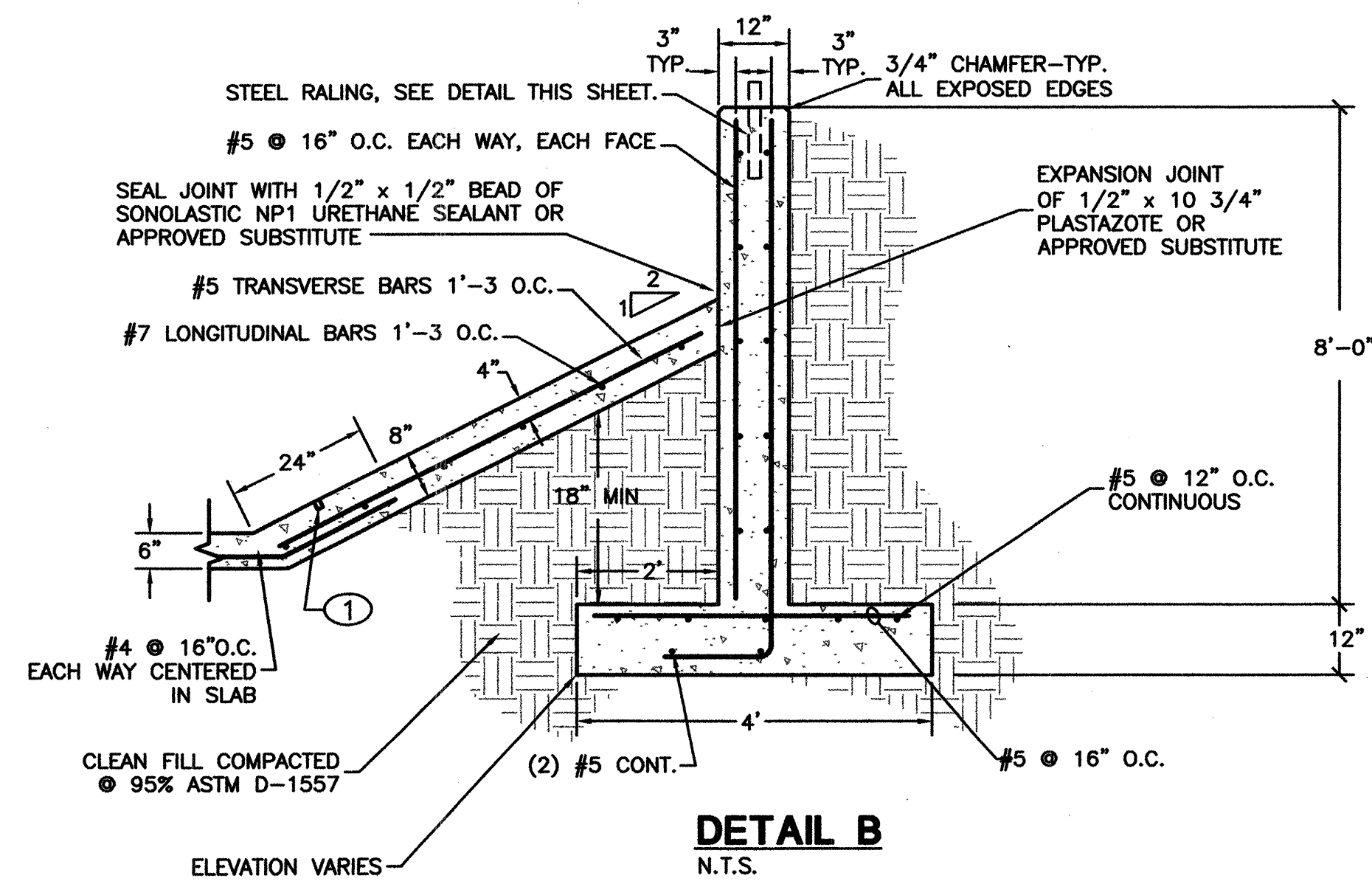
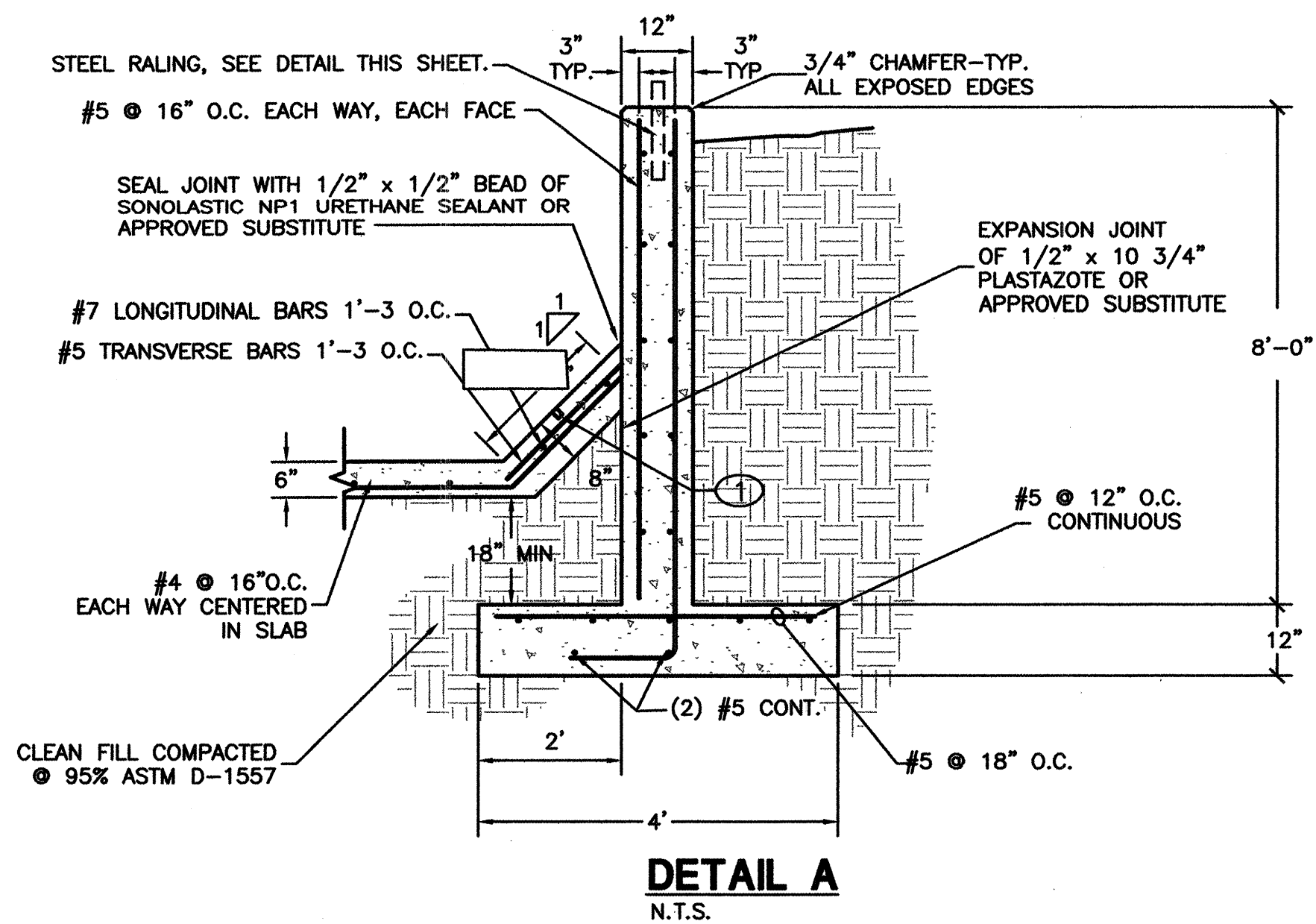


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									NO.	DATE									DESIGNED BY	DRAWN BY	CHECKED BY
CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT																					
TITLE: <div style="float: right; text-align: center;"> <p>NORTH DOMINGO BACA PARK PHASE 4 CONSTRUCTION - BOX CULVERT SECTIONS & DETAILS</p> </div>																					
Design Review Committee						City Engineer Approval						Last Design Update		No. / Day / Yr.				No. / Day / Yr.			
																					
City Project No.						Zone Map No.						Sheet		Of							
7138.92						C-19								12 14							

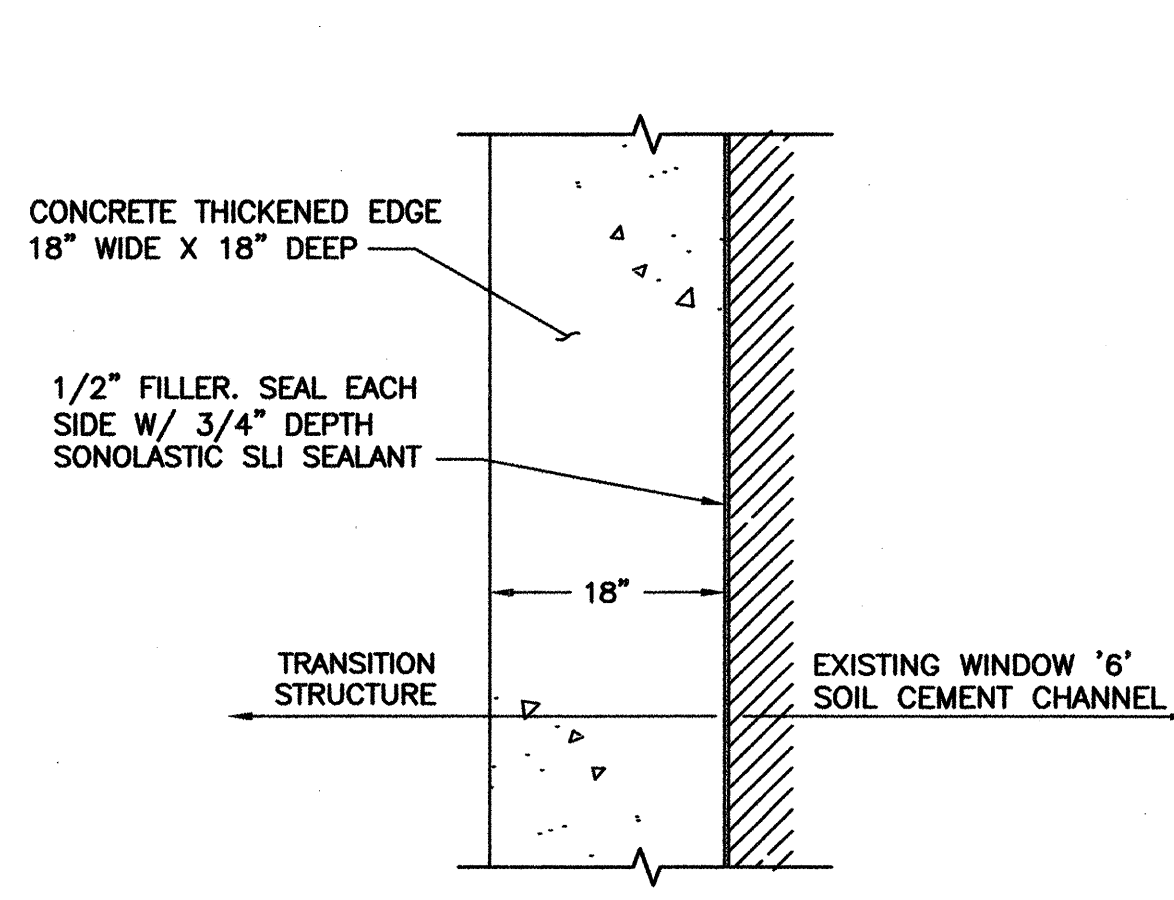
KEYED NOTES: ○

1. PROVIDE A CONTRACTION JOINT ONE (1) FOOT ABOVE THE CHANNEL BOTTOM BEGINNING WHERE SLOPE LENGTH EXCEEDS TWO (2) FEET.



DOWNSTREAM CONNECTION TO EXISTING CHANNEL
N.T.S.

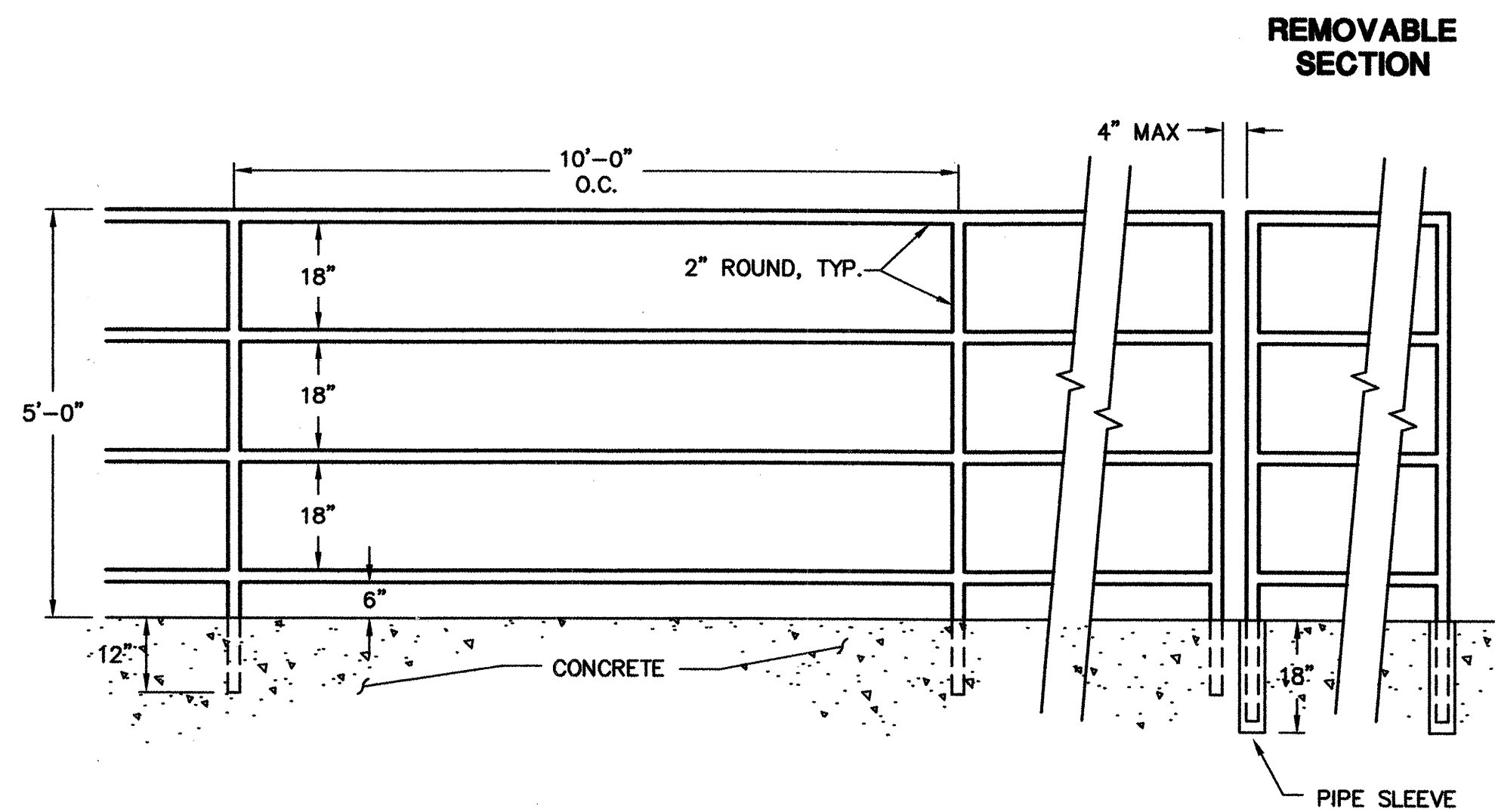
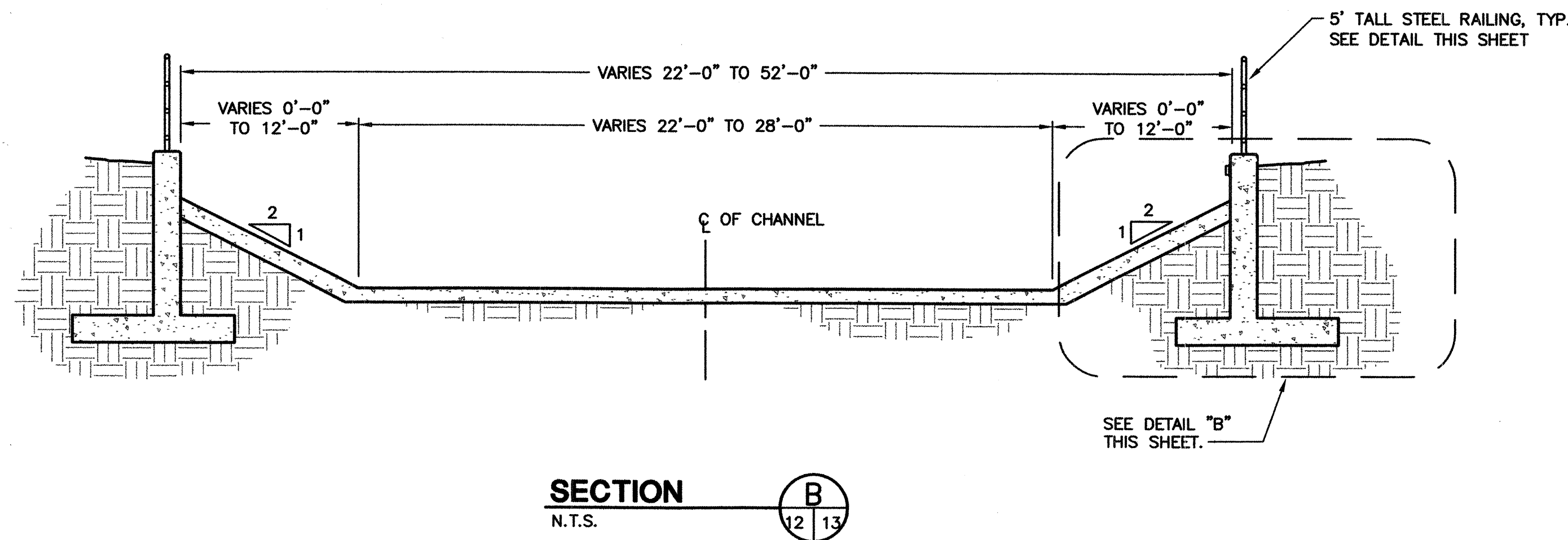
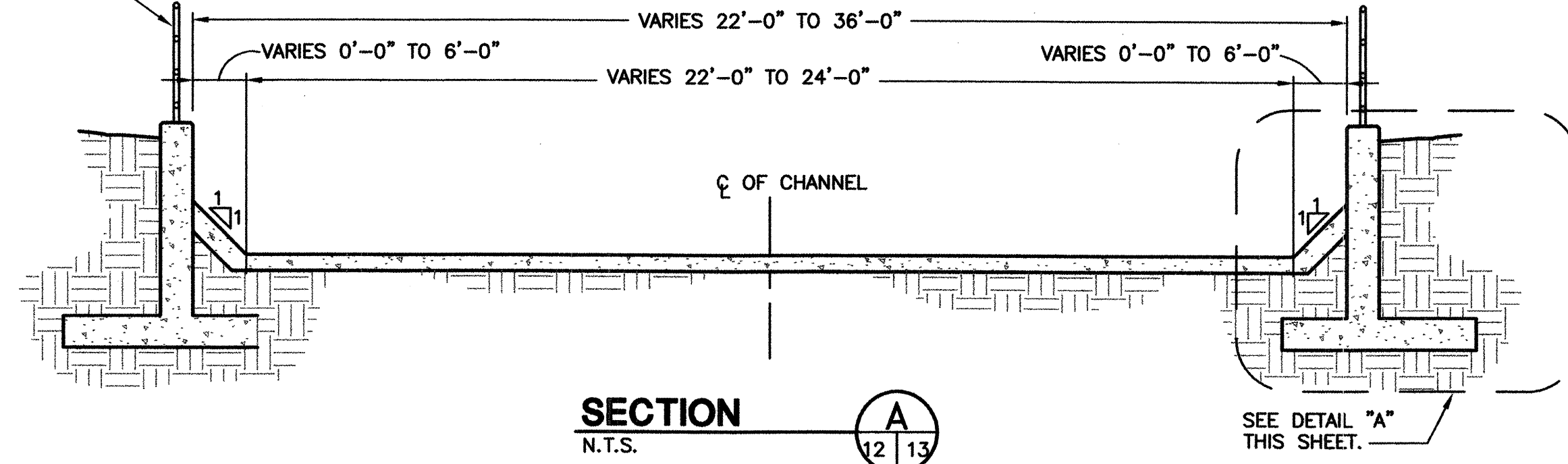
12 13



UPSTREAM CONNECTION TO EXISTING CHANNEL
N.T.S.

12 13

5' TALL STEEL RAILING, TYP.
SEE DETAIL THIS SHEET



NOTES:

1. ALL STEEL FOR RAILING IS 2" ROUND TUBE.
2. SUBMIT FABRICATION DRAWING OR MANUFACTURER'S CUT SHEET FOR ACCEPTANCE BY COA.
3. PROVIDE PAINT CHIP COLOR CARD FOR COLOR SELECTION BY COA.

STEEL RAILING DETAIL
N.T.S.

RECORD DRAWING

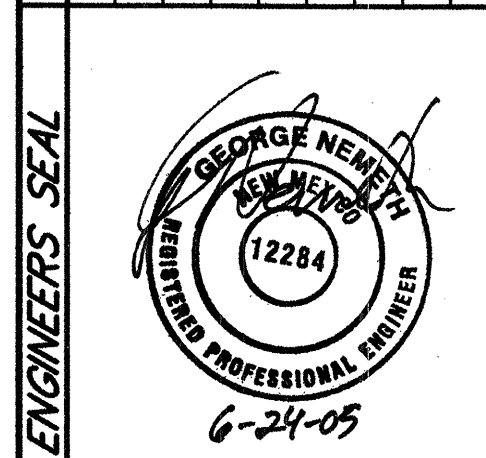
102035B
Smith Engineering Company
A Full Service Engineering Company
8001 San Pedro Boulevard, S.E., Map 34, Suite 300 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

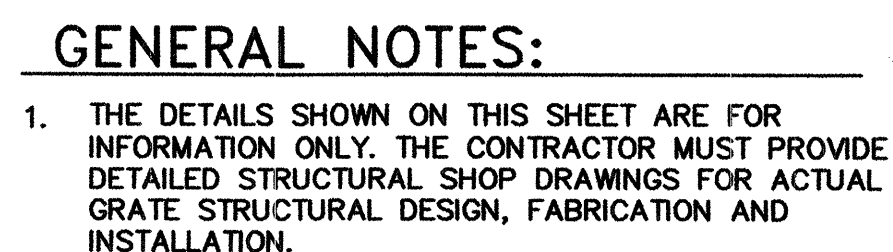
TITLE: NORTH DOMINGO BACA PARK
PHASE 4 CONSTRUCTION - BOX CULVERT
TRANSITION STRUCTURE SECTIONS & DETAILS



Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
AUG - 4 2005	AUG - 4 2005		
City Project No. 7138.92	Zone Map No. C-19	Sheet 13	Of 14

AS BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	FIELD NOTES
CONTRACTOR: Salls Bco. 3/07	STATION NAME: 1-B20; STATE: NM; COUNTY: BERNALLO	DATE: 3/07	BY: [Signature]
WORK: [Blank]	ESTABLISHING AGENCY: ACS STANDARD BRASS CAP	DATE: 3/07	BY: [Signature]
REVISION: [Blank]	IN CONCRETE LOCATED IN THE NORTHEAST QUADRANT	DATE: 3/07	BY: [Signature]
REVISION: [Blank]	OF THE INTERSECTION OF BARSTOW ST. AND MODESTO AVE.	DATE: 3/07	BY: [Signature]
REVISION: [Blank]	SPIRIT LEVEL ELEVATION = 5474.533 FT. (NGVD 29)	DATE: 3/07	BY: [Signature]
REVISION: [Blank]	PLANE COORDINATES: N = 1524092.46; E = 410237.56	DATE: 3/07	BY: [Signature]



REMARKS	DATE	BY
DESIGN	JULY 2005	GN
REVISIONS	JULY 2005	KSH
REVISIONS	JULY 2005	GN



Design Review Committee 		City Engineer Approval 		Least Design Update	No. / Day / Yr.		No. / Day / Yr.	
City Project No. 7138.92				Zone Map No. C-19	Sheet 14	Of 14		