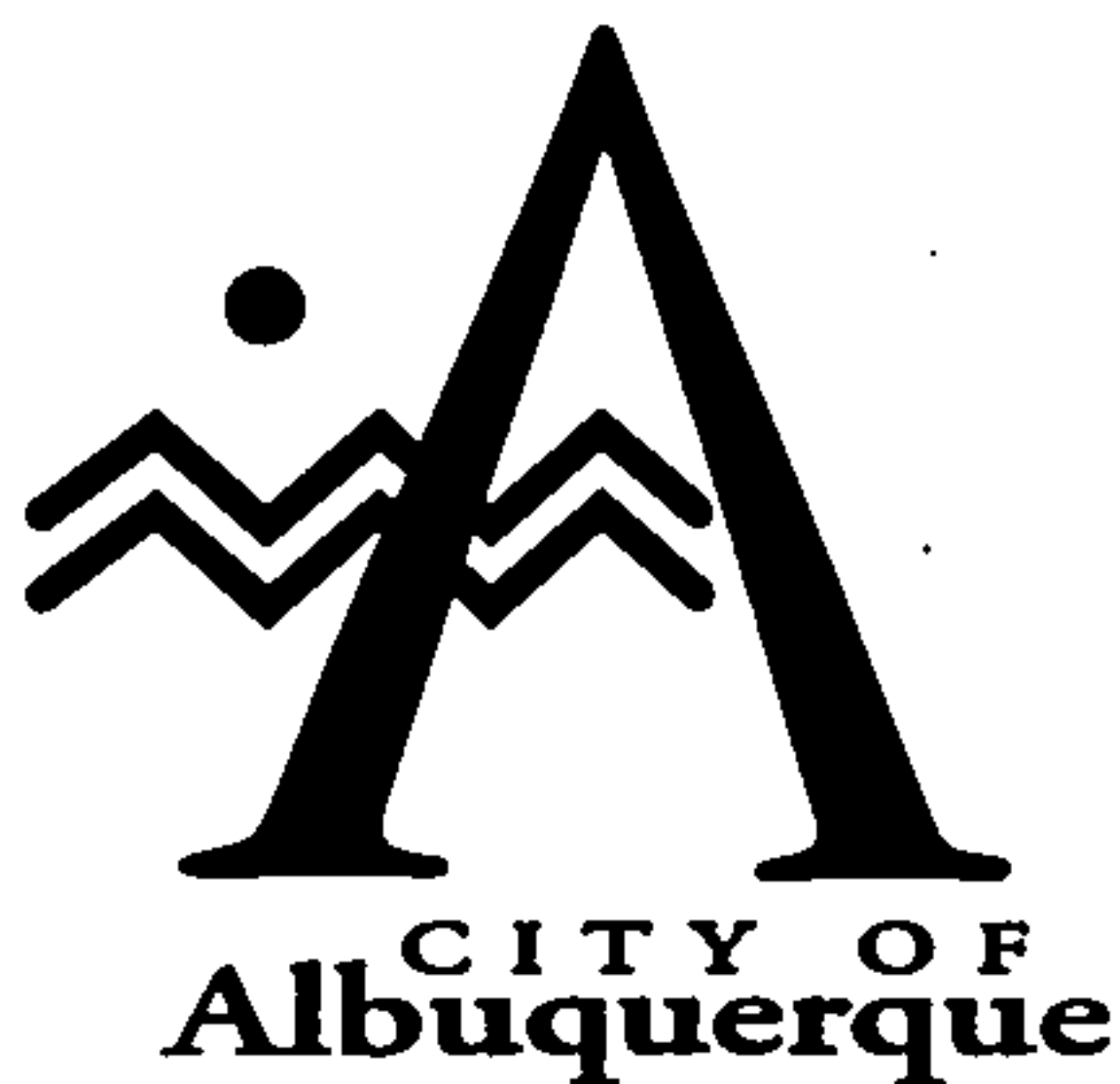




October 23, 1996

Martin J. Chávez, Mayor

John Dipollino
Crawford Development Services
3634 Highway 47
Peralta, NM 87042

**RE: MOSHER ADDITION (C17-D1E). GRADING AND DRAINAGE PLAN SUBMITTAL
FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED OCTOBER
14, 1996.**

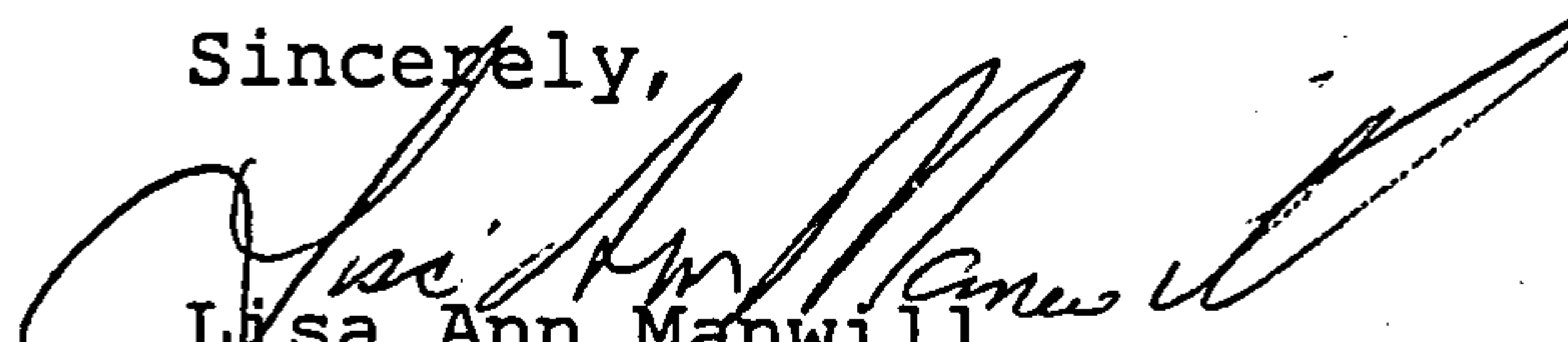
Dear Mr. Dipollino:

Based on the information provided on your October 16, 1996
submittal, the above referenced plan is approved for Building
Permit.

Prior to Certificate of Occupancy release, an Engineer's
Certification will be required.

If I can be of further assistance, please feel free to contact me at
768-3622.

Sincerely,



Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File



October 23, 1996

Via Facsimile

TO: Lisa Manwill
City of Albuquerque Hydrology
PO Box 1293
Albuquerque, NM 87103

RE: MOSHER ADDITION

Dear Ms. Manwill;

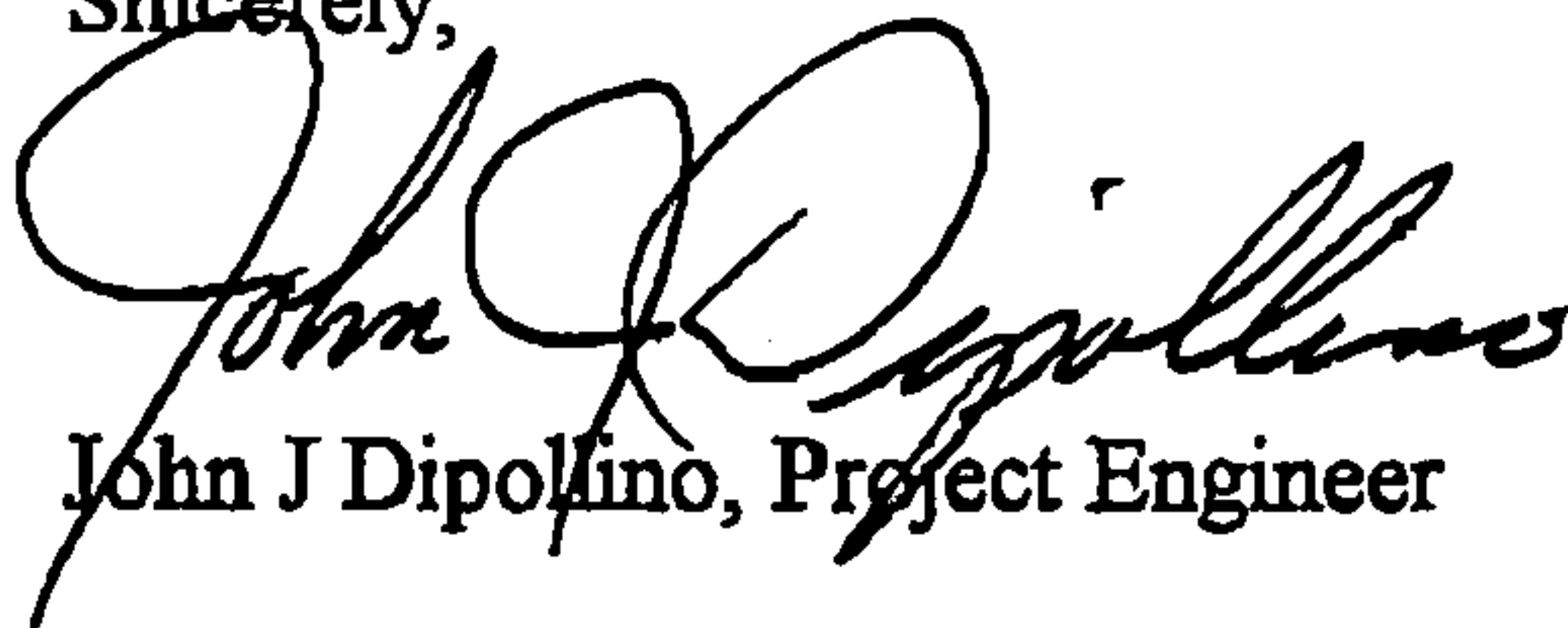
Per our telephone conversation of October 22, 1996, I visited the Mosher Enterprises site and observed the following:

The drainage pattern appears to follow Anaheim St to the intersection of Washington St; it then proceeds across Washington St into a concrete lined channel which extends to, what appears to be, a drainage easement that runs adjacent to the old Balloon Fiesta Park in both the North and Westerly directions; from there, it proceeds in a westerly direction to the North Diversion Channel.

A sketch of the pattern is included on a separate sheet.

Please call me if there are any questions concerning this project.

Sincerely,



John J Dipollino, Project Engineer

96020101.doc

Enclosures: Sketch of drainage area.
Item

CONSTRUCTION PLANS FOR CLIFFORD CHANNEL REALIGNMENT AT FORMER LOS ANGELES LANDFILL ALBUQUERQUE, NEW MEXICO

INDEX

SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	SITE PLAN
3	CHANNEL PLAN AND PROFILE STA. 0+00.00 TO STA. 12+00.00
4	CHANNEL PLAN AND PROFILE STA. 12+00.00 TO STA. 24+00.00
5	DETAILED SITE PLAN
6	ASPHALT AND STORM DRAIN REMOVAL AND OUTLET PLAN
7	CLIFFORD CHANNEL GRADING PLAN AND PROFILE STA. 1+00.00 TO STA. 13+00.00
8	MISCELLANEOUS DETAILS
9	DEBRIS REMOVAL STRUCTURE PLAN
10	DEBRIS REMOVAL STRUCTURE DETAILS
11	CHANNEL AND MISCELLANEOUS WALL DETAILS
12	RETAINING WALL DETAILS AND SCHEDULES
13	CHANNEL AND MISCELLANEOUS WALL DETAILS

REFERENCES:

HOLMES AND HARVEY, INC. "DRAINAGE & REMEDIATION REPORT FOR FORMER LOS ANGELES LANDFILL, PROJECT NO. 6166.91," MARCH 2001.

BOHANNAN HUSTON, INC. "CLIFFORD CHANNEL REALIGNMENT DESIGN ANALYSIS REPORT," JUNE 5, 2001.

HEALTH AND SAFETY NOTE

THIS PROJECT IS BEING PERFORMED ON AND/OR NEAR THE FORMER CITY OF ALBUQUERQUE OWNED AND/OR OPERATED LOS ANGELES LANDFILL. THIS FORMER LANDFILL CONTAINS LANDFILL GAS WHICH CONSISTS OF VOLATILE ORGANIC COMPOUNDS, SOME OF WHICH CAN BE HARMFUL TO HUMANS, AND METHANE WHICH CAN EXPLODE UNDER THE CORRECT CONDITIONS. THE LANDFILL CURRENTLY HAS A LANDFILL GAS EXTRACTION SYSTEM, WHICH IS DESIGNED TO REMOVE THE LANDFILL GASES AND BURN THEM AT A GROUND FLARE. THE LANDFILL GAS EXTRACTION SYSTEM WILL CONTINUE TO OPERATE DURING CONSTRUCTION OF THIS PROJECT; HOWEVER, THE OWNER CANNOT GUARANTEE THAT THE LANDFILL GAS EXTRACTION SYSTEM WILL OPERATE CONTINUOUSLY DURING THE DURATION OF THIS PROJECT AND/OR EVEN WHEN OPERATING ALL THE LANDFILL GAS AT THE LANDFILL IS BEING COLLECTED BY THE EXTRACTION SYSTEM. THE LANDFILL GAS EXTRACTION SYSTEM MAY SHUT DOWN DUE TO NO FAULT BY THE OWNER. THE OWNER WILL MAKE EVERY ATTEMPT TO GET THE EXTRACTION SYSTEM OPERATING AS SOON AS POSSIBLE IF SHUT DOWN OCCURS. THE CONTRACTOR IS RESPONSIBLE FOR THE HEALTH AND SAFETY OF HIS/HER WORKERS. THE WORK DETAILED IN THIS PROJECT MAY REQUIRE THAT A HEALTH AND SAFETY PLAN BE PREPARED ACCORDING TO OSHA 1910.1201.

CONSTRUCTION NOTES:

1. 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.

2. 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. 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.

3. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL AND UNSATURABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE ENVIRONMENTAL HEALTH DEPARTMENT (768-2618). ALL COSTS INCURRED IN OBTAINING A FULLY REGULATED DISPOSAL SITE AND HAIL THEREOF SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT, AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE ENVIRONMENTAL HEALTH DEPARTMENT (768-2618).

5. 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.

6. OVERSIGHT 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. THE CONTRACTOR SHALL COORDINATE WITH ENVIRONMENTAL HEALTH DEPARTMENT (768-2618) THE LOCATION OF ALL CONSTRUCTION EQUIPMENT PARKING.

7. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADEING, SURFACE DISTURBANCE).

8. 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.

9. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE PER CDA STANDARDS, AT HIS OWN EXPENSE.

10. LOCATIONS OF UTILITIES ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL PERTINENT UTILITIES IN THE FIELD.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPORT ALL UTILITIES EXPOSED DURING CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES, INCLUDING SERVICE LINES, EXTRACTION PIPING, MONITORING AND EXTRACTION WELL HEADS, WELL VAULTS, CONDENSATION Sumps, AND ISOLATION VALVE VAULTS.

12. MILLINGS GREATER THAN SIX INCHES IN THICKNESS, IMPACTED DURING GRADING, SHALL BE STOCKPILED IN AN AREA DESIGNATED BY THE ENVIRONMENTAL HEALTH DEPARTMENT (768-2618). AT THE END OF THE PROJECT ALL STOCKPILED MILLINGS WILL BE PROCESSED WITH HFE-150 OR HFE-300 DIALYSIS AS REQUIRED BY THE MANUFACTURER'S INSTRUCTIONS AND WILL BE PLACED BACK IN THEIR ORIGINAL LOCATION. MILLINGS LESS THAN SIX INCHES IN THICKNESS, IMPACTED DURING GRADING, SHALL BE LEFT IN PLACE, BUT SHALL BE SCARIFIED TO A MINIMUM OF 6" BEFORE PLACEMENT OF FILL.

13. IF LANDFILL MATERIAL IS ENCOUNTERED DURING THE GRADING AND/OR CONSTRUCTION OF THIS PROJECT, IMMEDIATELY NOTIFY THE ENVIRONMENTAL HEALTH DEPARTMENT (768-2618).

14. LIMIT HEAVY TRUCK OR SCRAPER TRAFFIC TO EXISTING ROADS, WORK AREAS AND DESIGNATED HOLDING AREAS LOCATED ON THE LANDFILL.

15. SEEDING WILL BE PERFORMED BY THE CITY PARKS AND RECREATION DEPARTMENT.

16. FOR STORM DRAIN CONSTRUCTION, ROP PIPE JOINTS SHALL NOT BE GROUDED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUDED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

17. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

18. WHERE GRADING OCCURS WITHIN 15 FEET OF THE GAS EXTRACTION PIPING, COMPACTION IS TO BE ACHIEVED THROUGH NON-VIBRATORY MEANS ONLY.

DISCLOSURE STATEMENT:

THE SUBJECT PROPERTY IS LOCATED ON/NEAR A FORMER LANDFILL. DUE TO THE 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

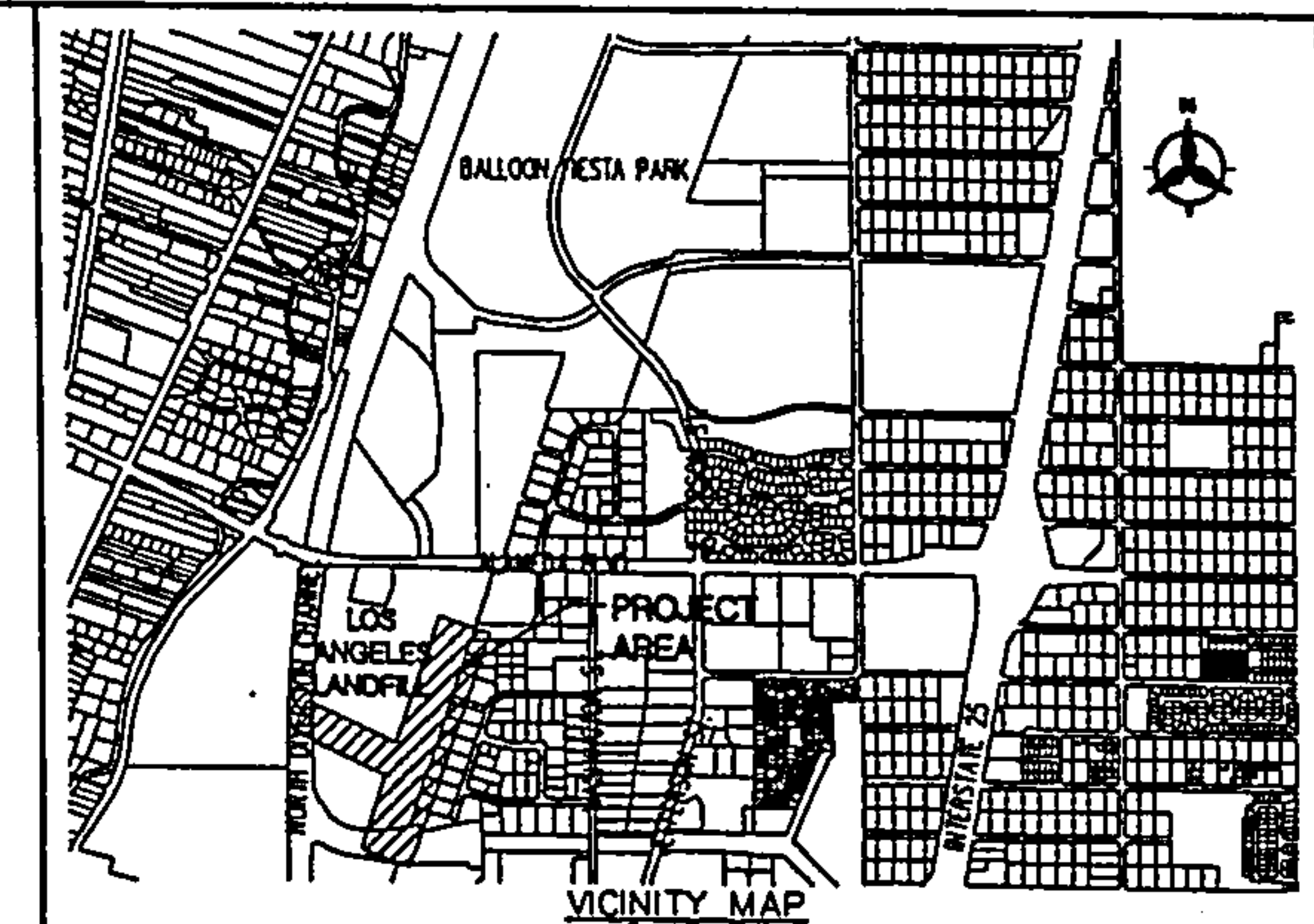
MARCIA PINCUS, P.E.
ENVIRONMENTAL HEALTH DEPARTMENT
CITY OF ALBUQUERQUE

APPROVED FOR CONSTRUCTION WITHIN AMAFCA R.O.W.

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

Bohannon & Huston

Courtyard 1 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING & SPATIAL DATA & ADVANCED TECHNOLOGIES



NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #1.
 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 4. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION AND THE ENVIRONMENTAL HEALTH DEPARTMENT (768-2618) A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADEING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 15 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 5. ALL WORK EFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
 6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
 7. ALL PERMANENT SURVEY MONUMENTS WILL BE SHOWN ON THE CONSTRUCTION PLANS. THESE SURVEY MONUMENTS INCLUDE, BUT NOT LIMITED TO: PROPERTY OWNERS, AMAFCA, BOUNDARY CORNERS, PUBLIC LAND SURVEY MONUMENTS, AND GEODETIC SURVEY CONTROL.

A. GEODETIC SURVEY MONUMENTS: THE CITY OF ALBUQUERQUE, GEODETIC SURVEY, SHALL BE MAINTAINED NOT LESS THAN THREE (3) WORKING DAYS PRIOR TO STARTING WORK THAT WILL IMPACT ANY EXISTING ACS GEODETIC SURVEY MONUMENTS. ALL REFERRING AND REPLACEMENT OF ACS MONUMENTS SHALL BE DONE BY THE CITY OF ALBUQUERQUE GEODETIC SURVEY. ANY ACS MONUMENTS DAMAGED OR DESTROYED DUE TO THE FAILURE OF THE CONTRACTOR TO NOTIFY AS STATED ABOVE SHALL BE REPAIRED OR REPLACED BY THE CITY OF ALBUQUERQUE, GEODETIC SURVEY, AT THE CONTRACTOR'S EXPENSE.

B. ALL OTHER PERMANENT SURVEY MONUMENTS: CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) WORKING DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE 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 SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT CORNER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.41 OF THE GENERAL CONDITIONS OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986.
 8. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
 9. CONTRACTOR SHALL MAINTAIN A GRAFTED-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFTED FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
 10. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
 11. ALL WORK IN AMAFCA RIGHT-OF-WAY MUST BE COMPLETED BETWEEN OCTOBER 15 AND MAY 15. AT ALL OTHER TIMES THE LEVEE AND EMBANKMENT ARMORING MUST BE INTACT.
- 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.
 - ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHENEVER A NEW CURB RETURN IS CONSTRUCTED.
 - ☐ IF CURB IS DEEPER 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 REQUESTOR 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.

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRG Chairman				*****	
		Transportation				APPROVED FOR CONSTRUCTION	
		Water/Wastewater					
		Hydrology					
		Parks					
Const. Coord.						City Engineer	
City Project No.		6833.01		Sheet		Of	
				1		13	

BHI JOB NO. 030085.005.CWH

DATE: 06.17.03

AMAFCA F.O.W. (BRASS CAPS) POINTS TABLE

POINT	MONUMENT	NORTH	EAST
1	N4-15-1	152255.4470	384375.0496
2	N4-15-2	152255.4787	384311.8420
3	N4-15-3	152186.1897	384220.6804
4	N4-15-4	152120.6759	384158.4353
5	N4-15-5	152102.1854	384178.4400
6	N4-14-1	152050.5767	384164.8527
7	N4-14-2	152030.7635	384164.7994
8	N4-14-3	152017.1291	384235.9294
9	N4-14-4	152012.6774	384236.1305
10	N4-14-5	152017.7155	384262.4307
11	N4-14-6	151991.8194	384599.5470
12	N4-18-6	151992.4044	384709.2061
13	N4-18-5	151989.5289	384818.5343
14	N4-18-6	151992.2218	385057.8323
15	N4-18-7	151996.3349	385263.1639

COORDINATES SHOWN ARE GRID COORDINATES BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (NAD 1983).

AMAFCA CAP
"STA. NDC 7-182"
N=1,520,664.05
E=393,931.76
TRIG. ELEV. = 5064.40
GROUND TO GRID
FACTOR = 0.99987071

AMAFCA CAP
"STA. NDC 7"
N=1,522,635.84
E=394,094.80
TRIG. ELEV. = 5082.60
GROUND TO GRID
FACTOR = 0.99987075

LEGEND **

- EXISTING
NEW
INDEX CONTOUR
CONTOUR
MANHOLE
STORM DRAIN
SANITARY SEWER
LOS ANGELES LANDFILL
PROPERTY BOUNDARY
RV HOOKUPS
METHANE WELL*
GAS EXTRACTION PIPE
EXISTING WATER LINE
UNDERGROUND ELECTRIC
CABLE
GAS LINE
TELEPHONE LINE
TELEPHONE BOX
ACCESS ROUTE

* SYMBOLS REPRESENT APPROXIMATE LOCATION METHANE WELLS
** INCLUDES SURVEYED LOCATIONS OF EXISTING FEATURES

NOTES
THE RV PARKING PLAN SHOWN HEREON IS CONCEPTUAL AND MAY BE SUBJECT TO CHANGE. THE PARKING PLAN IS SHOWN FOR REFERENCE PURPOSES ONLY AND IS NOT FOR CONSTRUCTION.

NOTE: THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA AND KEEPING EXISTING UTILITIES IN SERVICE UNLESS OTHERWISE NOTED.

UTILITY COMPANY CONTACTS

BUSINESS	NAME	PHONE
PHM - ELECTRIC	ROBERT GARCIA	505-214-3490
PHM - GAS	KELLY BOUSKA	505-241-7752
AT&T	DAVID CROWL	505-842-2911
WORLDWIDE	ANDY DARNELL	505-346-4476
COMCAST	RITA ERICKSON	505-761-6235
TIME WARNER TELECOM	ROYAL HARRISON	505-938-7339
E. SPRE	JOHN MARES	505-998-2274
MCLEOD USA	RICK MUELLER	505-244-3161
CITYNET TELECOMMUNICATIONS	JOSHUA NELSON	505-217-0070
CITY OF ALBUQUERQUE	GREG OLSON	505-768-3629
QUEST/US WEST	DAVID MULLER	505-245-8706
GENUITY	TOM TURLEY	636-561-0339
AMAFCA	JERRY LOVATO	505-884-2215

Bohannon & Huston

Courtyard I 7500 Jefferson St NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

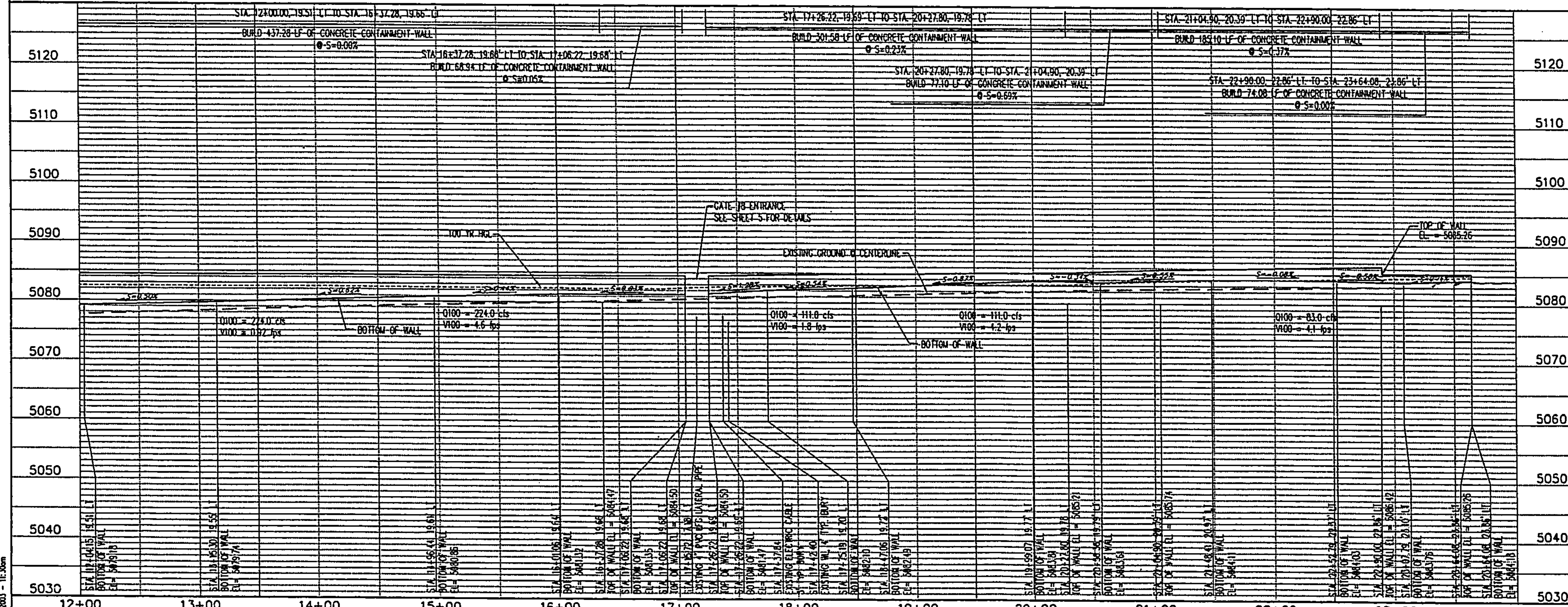
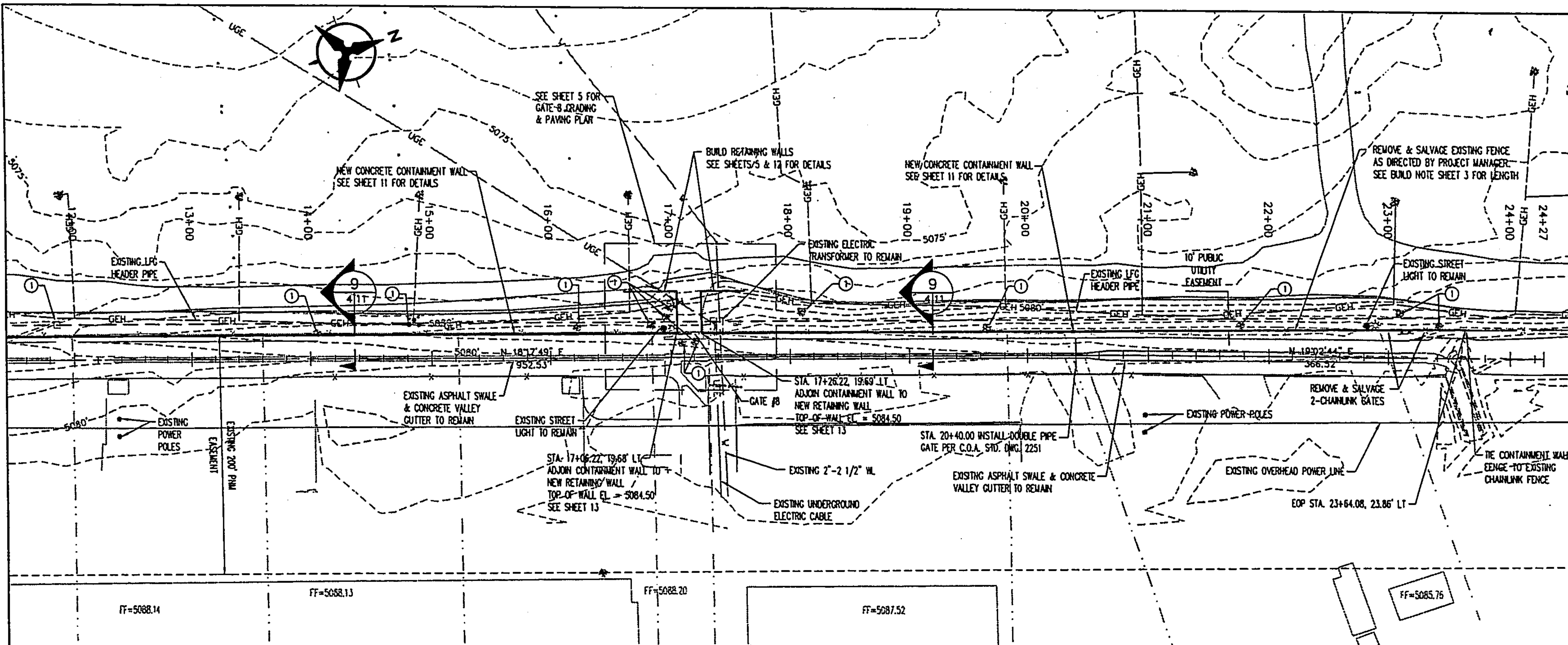


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

CLIFFORD CHANNEL REALIGNMENT
SITE PLAN

Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.
City Project No.	6833.01	Zone Map No.	C-17-Z
		Sheet	2 of 13

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JUL 17, 2001 11:35 am



NOTES:

- STATIONING IS ALONG CENTERLINE OF STORM DRAIN, CHANNEL, AND EXISTING ASPHALT SWALE.
- ALL EXISTING WELLS, VALVES, SUMPS, ARE SURROUNDED BY BOLLARDS AND OR "TEE POSTS" WITH FLAGGING.
- CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO WELLS, SUMPS, EXTRACTION PIPING AND/OR VALVES DUE TO HIS/HER NEGLIGENCE. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING THE INTEGRITY OF WELL VENTS AT ALL TIMES.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA.
- ALL MANHOLE FRAMES AND COVERS SHALL BE PER CITY STANDARDS DRAWINGS 2110.

KEYED NOTES:

① THERE IS A 15-FOOT EXCLUSION ZONE AROUND THE FOLLOWING STRUCTURES:

- + ALL GAS EXTRACTION WELLS
- + ALL ISOLATION VALVES
- + ALL CONDENSATE SUMPS
- + ALL EXISTING MONITORING WELLS

GRADING WITHIN THE 15-FOOT EXCLUSION ZONE MUST BE PERFORMED BY HAND, OR BY MEANS THAT SHALL NOT DAMAGE/DESTROY THESE STRUCTURES.

② IF EXISTING RV HOOKUPS ARE ENCOUNTERED DURING GRADING AND REQUIRE REMOVAL, THE CONTRACTOR SHALL REMOVE THE HOOKUP AND RECORD IT ON THE RECORD DRAWINGS. THE CONTRACTOR SHALL REMOVE HOOKUP IN SUCH A MANNER THAT THE REMAINING HOOKUPS CAN STILL BE ENERGIZED.

LEGEND **

EXISTING	NEW	INDEX CONTOUR
---	---	5075
---	---	5076
●		MANHOLE
---	---	STORM DRAIN
---	---	SANITARY SEWER
---	---	LOS ANGELES LANDFILL PROPERTY BOUNDARY
+		RV HOOKUPS
+		METHANE WELL*
---	---	GAS EXTRACTION PIPE
---	---	EXISTING WATER LINE
---	---	UNDERGROUND ELECTRIC CABLE
---	---	GAS LINE
---	---	TELEPHONE LINE
□		TELEPHONE BOX

* SYMBOLS REPRESENT APPROXIMATE LOCATION METHANE WELLS
** INCLUDES SURVEYED LOCATION OF EXISTING FEATURES

Bohannon & Huston

Courtyard 1 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

CLIFFORD CHANNEL REALIGNMENT
CHANNEL PLAN AND PROFILE
STA. 12+00.00 TO STA. 24+00.00

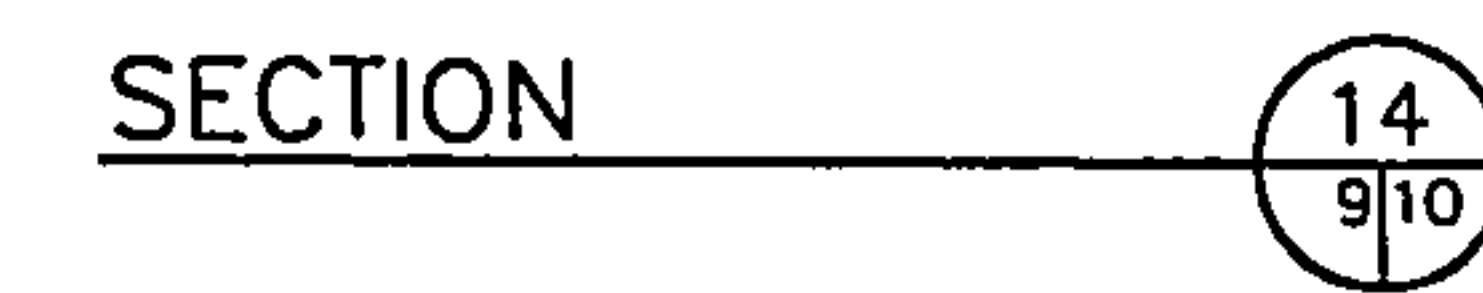
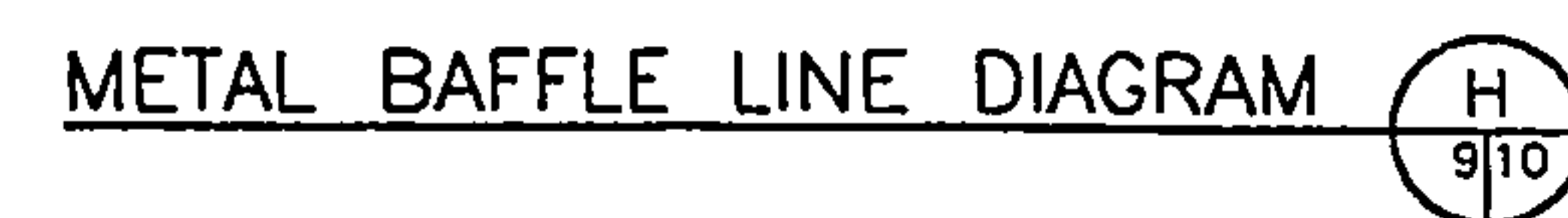
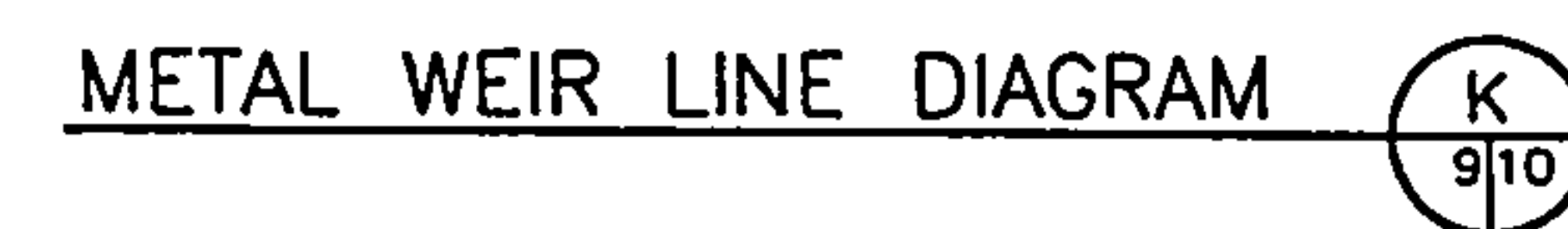
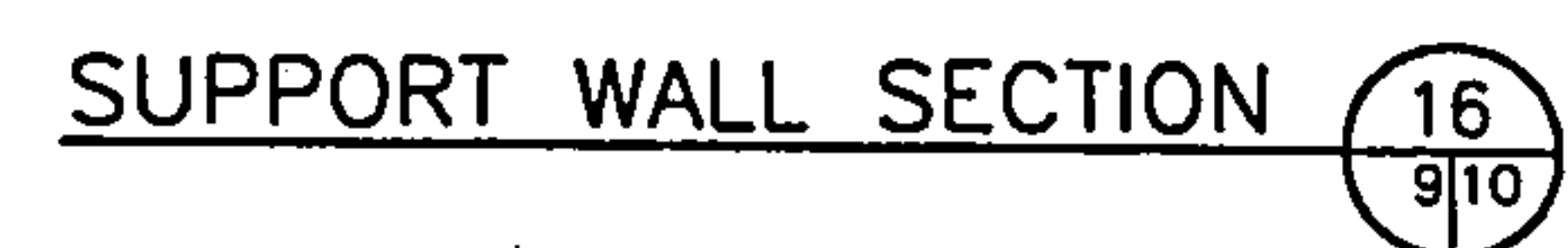
Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.

City Project No. **6833.01** Zone Map No. **C-17-Z** Sheet **4** of **13**

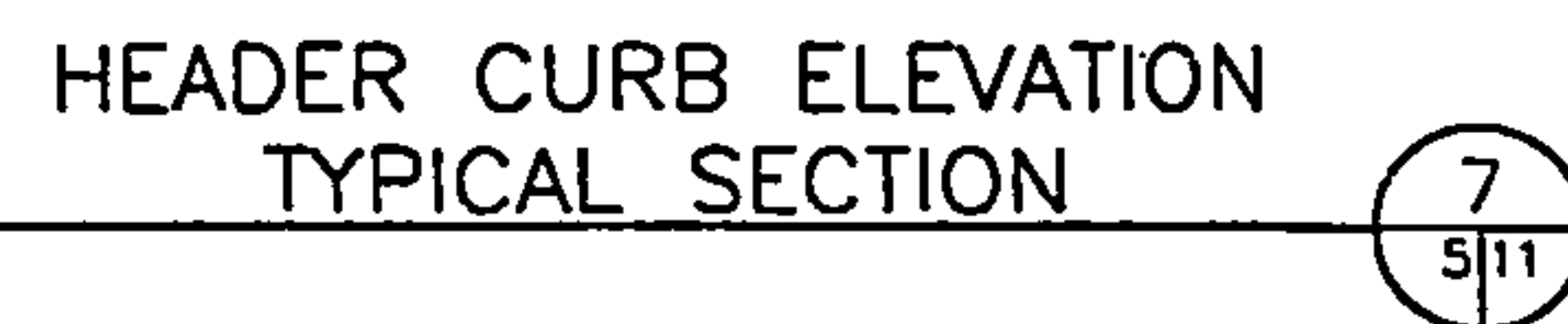
Designed By: J.M.G. DATE: 06/17/03
Drawn By: S.F.G. DATE: 06/17/03
Checked By: J.M.G./B.T.O. DATE: 06/17/03



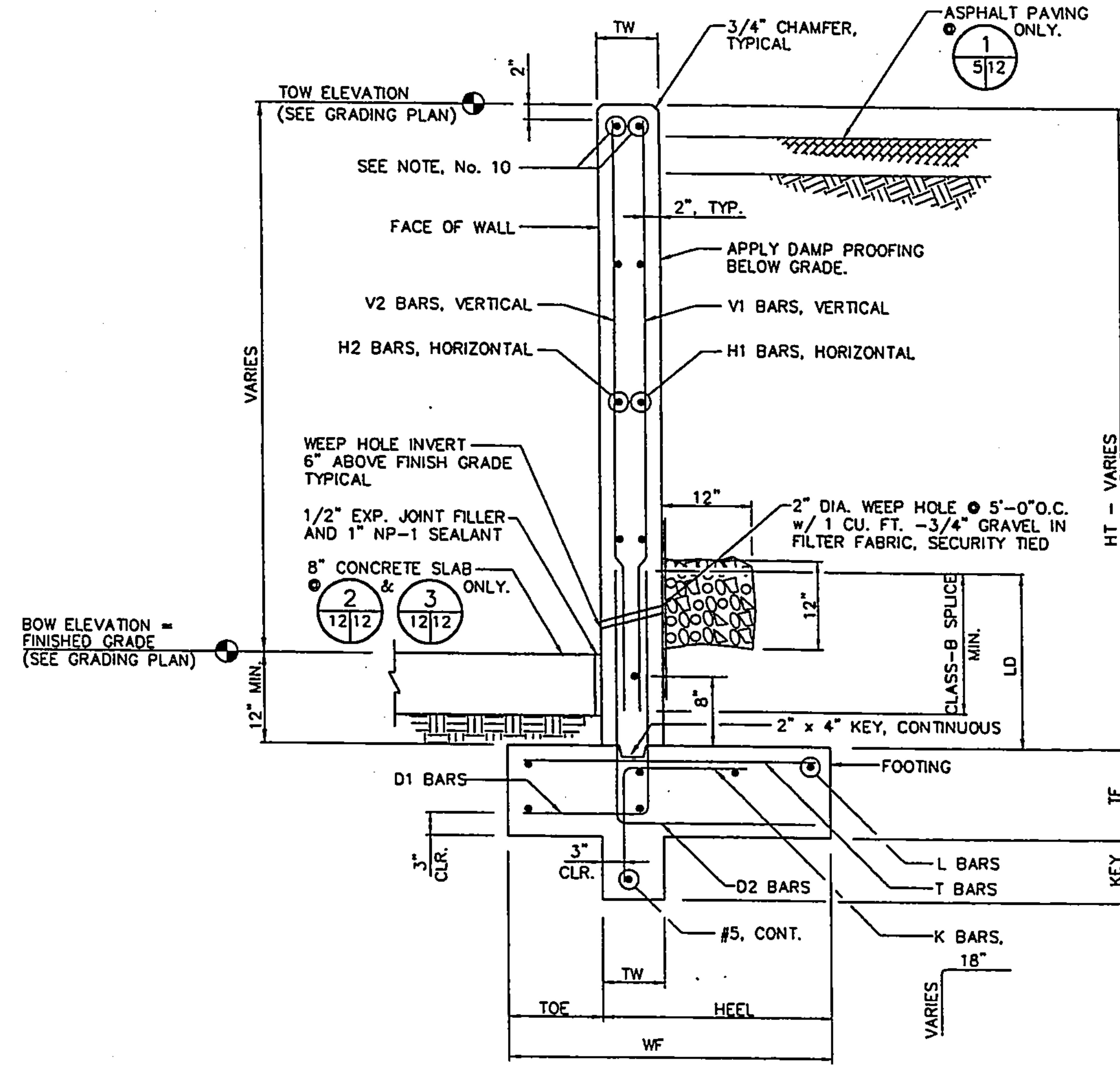
BHI JOB NO. 030085.005.CWH Date: 06.17.03



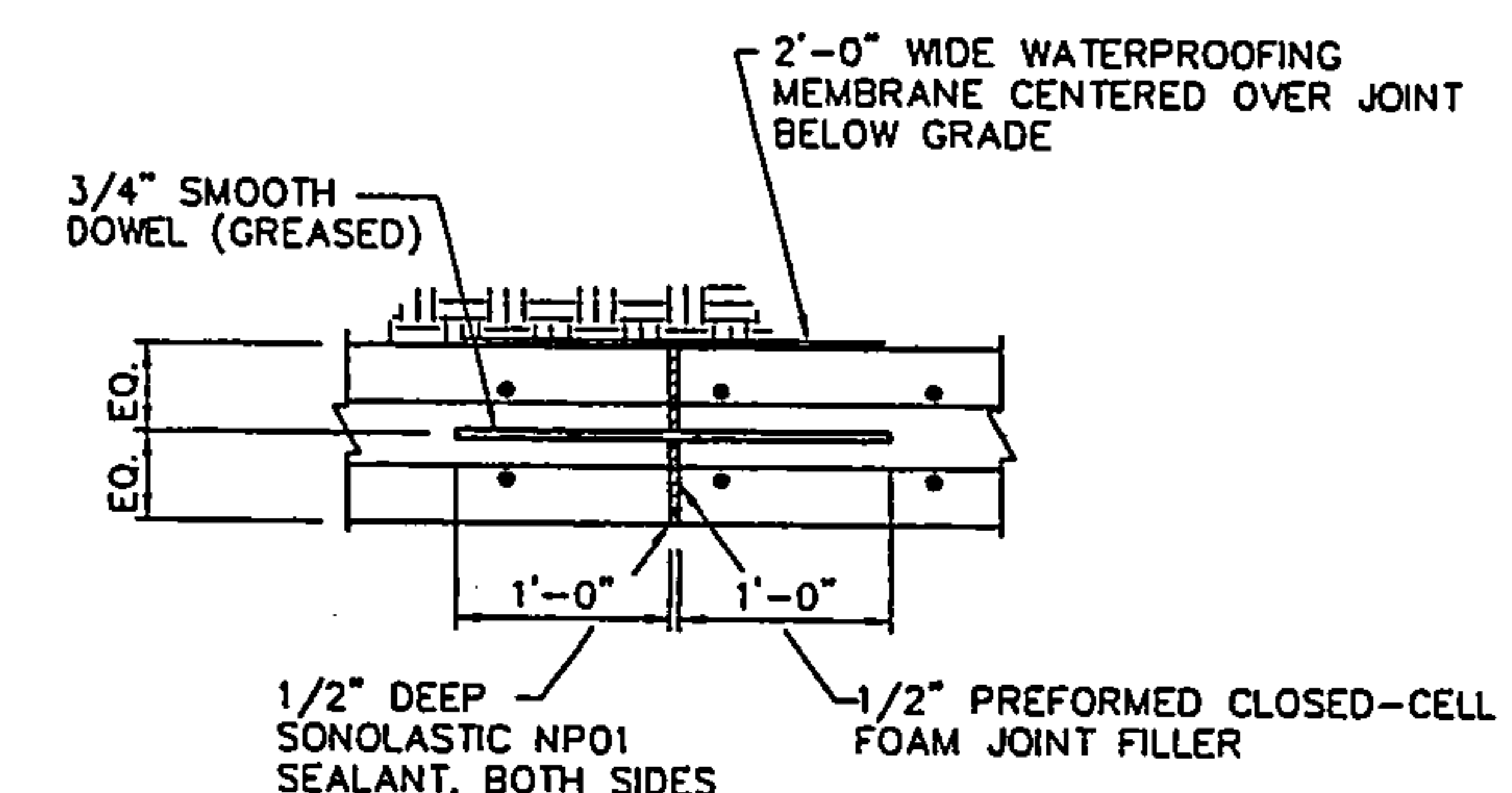
BH# JOB NO. 030085.005.CWH Date: 06.17.03



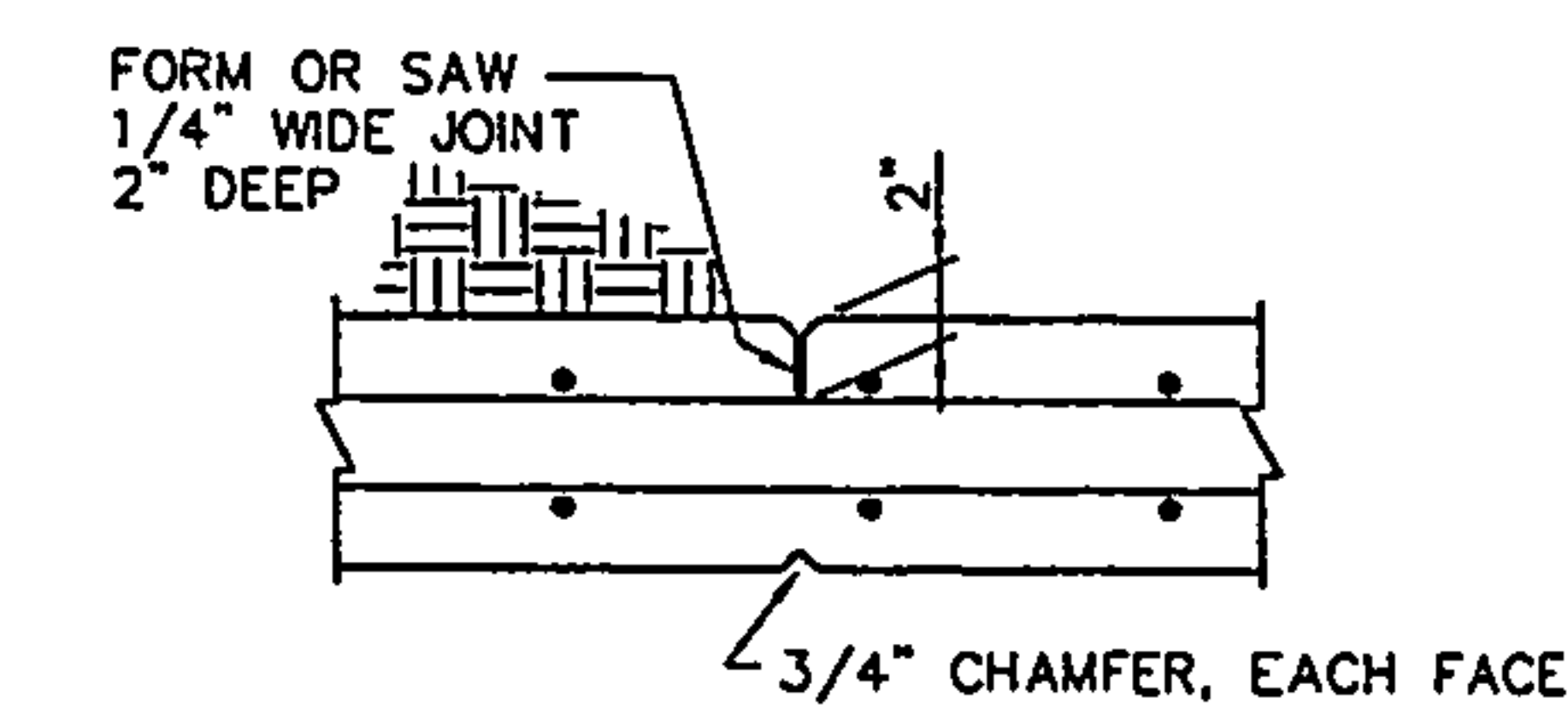
Date: 06.17.03



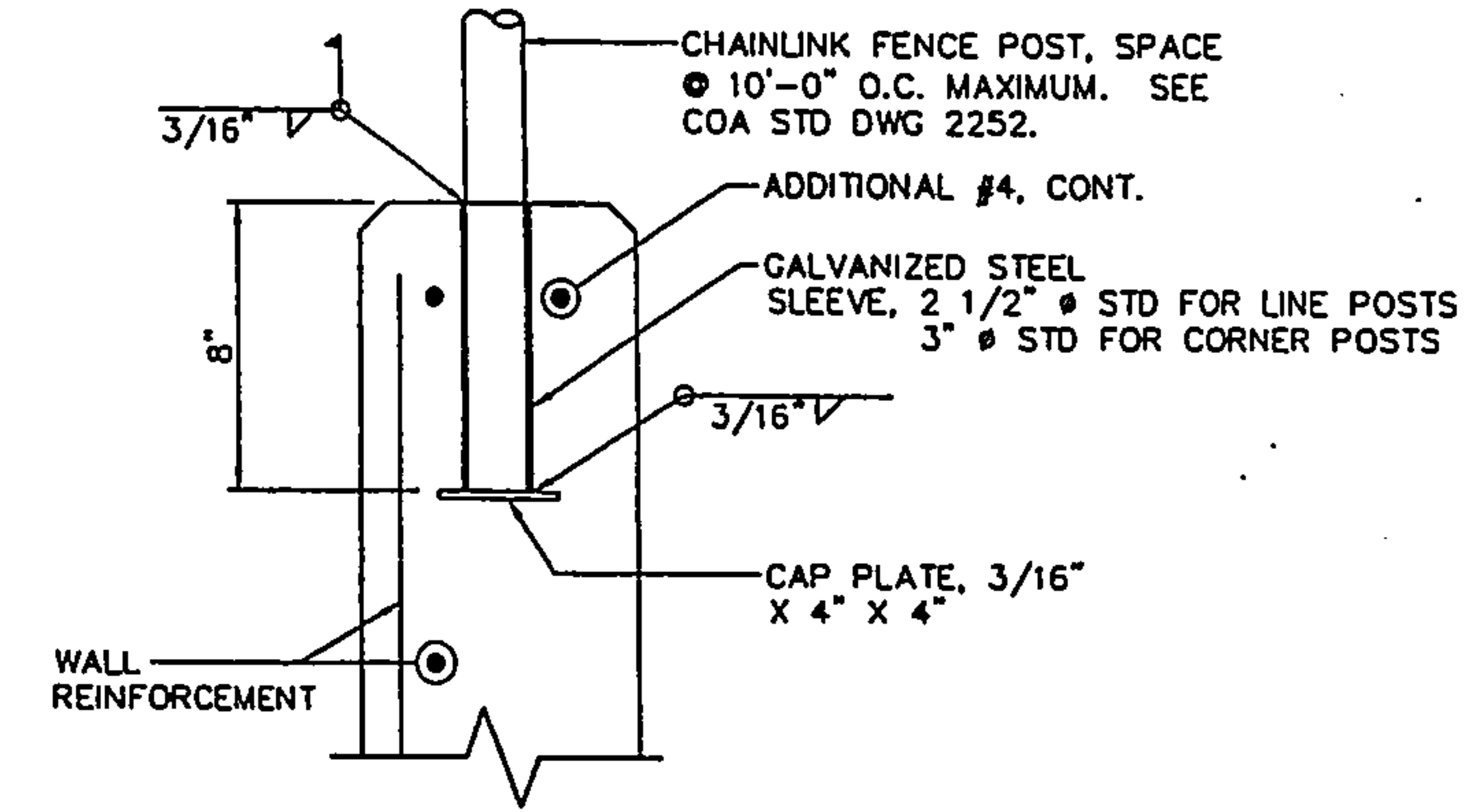
RETAINING WALL SECTIONS 1 2 3
NO SCALE



VERTICAL EXPANSION JOINT
PLAN DETAIL (SEE NOTE 7)
NO SCALE

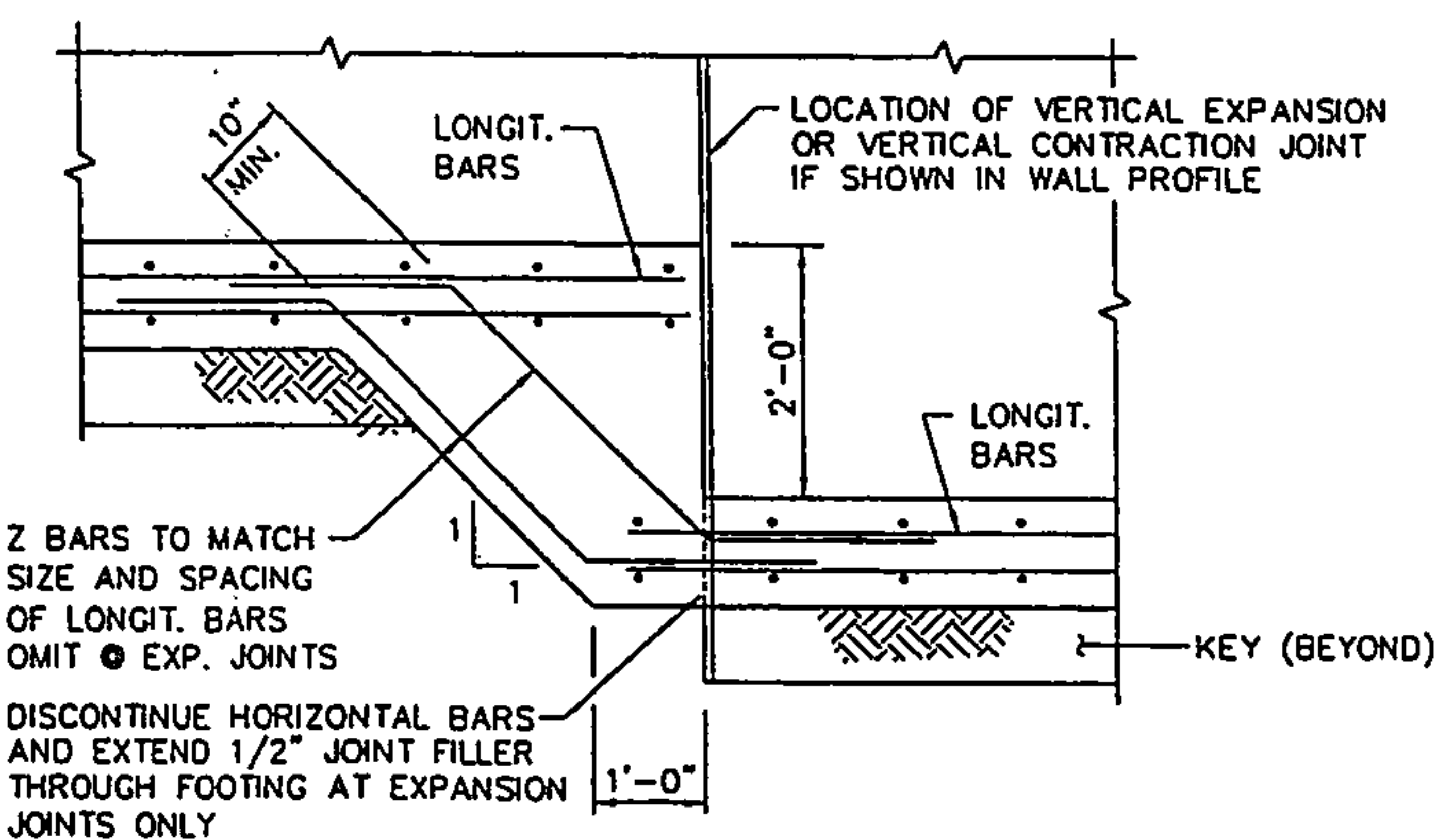


VERTICAL CONTRACTION JOINT
PLAN DETAIL (SEE NOTE 7)
NO SCALE



CHAINLINK FENCE
POST SLEEVE DETAIL D
12/12

CONTAINMENT WALL FENCE SCHEDULE					
FROM		TO			
STATION	OFFSET	STATION	OFFSET	HEIGHT	
10+74.86	19.96' LT.	17+05.88	20.01' LT.	3.0'	
17+05.88	19.63' LT.	17+05.88	55.48' LT.	4.0'	
17+26.55	19.68' LT.	17+26.55	55.49' LT.	4.0'	
17+26.55	20.02' LT.	18+00.69	20.04' LT.	3.5'	
18+00.69	20.04' LT.	19+01.72	20.08' LT.	4.0'	
19+01.72	20.08' LT.	21+95.88	21.94' LT.	4.5'	
21+95.88	21.94' LT.	22+90.00	23.20' LT.	4.0'	
22+90.00	23.20' LT.	23+64.03	24.19' LT.	5'	



STEP FOOTING DETAIL C
12/12

NOTES FOR CAST IN PLACE RETAINING WALLS, RECTANGULAR CHANNEL, & CONTAINMENT WALLS

- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- STRUCTURAL CAST-IN-PLACE CONCRETE: 4000 PSI FOR HYDRAULIC STRUCTURES PER SECTION 510 (REF. TABLE 101) OF THE REFERENCED SPECIFICATIONS. INCORPORATE TYPE F FLY ASH AT 1 TO 4 RATIO.
- REINFORCING STEEL: STEEL REINFORCEMENT AND PLACEMENT SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATIONS. AND SHALL CONFORM TO ASTM A615, GRADE 60. ALL LAP SPLICES SHALL BE AS SHOWN ON THE PLANS.
- OVER EXCAVATE A MINIMUM OF 2 FEET BELOW BOTTOM OF FOOTING ELEVATIONS AND A MINIMUM OF 2 FEET HORIZONTALLY BEYOND THE EDGES OF FOOTINGS, EXCEPT WHERE PROHIBITED BY SITE BOUNDARY. CAST FOOTINGS ON COMPACTED STRUCTURAL FILL CONSISTING OF SOIL APPROVED BY THE GEOTECHNICAL ENGINEER, PLACED IN CONTROLLED COMPACTED LAYERS AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557 TEST METHOD. CONTRACTOR SHALL REFERENCE REPORT NO. 1-21109 PREPARED BY GEO-TEST, INC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE WALL AND ANY ADJACENT STRUCTURES DURING CONSTRUCTION, AS WELL AS WORKER SAFETY AND COMPLIANCE WITH OSHA OR OTHER AGENCY SAFETY GUIDELINES.
- HORIZONTAL REBAR SHALL BE LAPPED AND CONTINUOUS EXCEPT WHERE NOTED.
- VERTICAL EXPANSION JOINTS SHALL BE PLACED AT 60'-0" O.C. VERTICAL CONTRACTION JOINTS SHALL BE PLACED AT 15'-0" O.C. AND AT STEPS IN THE TOP OF THE WALL.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO THE CONCRETE FOOTING PLACEMENT, FOR THE INSPECTION OF COMPACTION UNDER THE FOOTING, FOOTING DEPTH AND WIDTH, THE WALL STEEL SPACING. FINAL INSPECTION OF THE FOOTING AND WALL WILL BE REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CODE ADMINISTRATION APPROVAL AND FEES ASSOCIATED WITH IT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT ALL REBAR IS PROPERLY ALIGNED AND TIED IN PLACE BEFORE PLACING CONCRETE. ALL STEEL SHALL BE ACCURATELY LOCATED AND SECURED IN PLACE SO THAT IT REMAINS IN POSITION DURING THE PLACEMENT OF THE CONCRETE. ANY REBAR IMPROPERLY INSTALLED SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL CLEAN ALL CONSTRUCTION DEBRIS FROM THE AREA.
- NOT USED.
- NOT USED.
- DAMP PROOFING SHALL CONSIST OF ONE APPLICATION OF AN EMULSIFIED ASPHALT COMPOUND, HYDROCID 7008 OR APPROVED EQUAL.
- TOP BARS, H1 & H2, SHALL RUN PARALLEL TO THE TOP OF THE WALL. SPACING BETWEEN TOP BARS AND ADJACENT HORIZONTAL BARS BELOW SHALL VARY.

DESIGN LOADS

EFP (ACTIVE)	=	35 PCF
EFP (PASSIVE)	=	325 PCF
TWO FOOT SURCHARGE	=	220 PSF
SOIL UNIT WEIGHT	=	110 PCF
ALLOWABLE BEARING PRESSURE	=	2000 PSF
COEFFICIENT OF FRICTION FOR SLIDING	=	0.40

BAR	LENGTH (IN)
4	25
5	31
6	37
7	54
8	62

DIMENSIONS								
WALL SECTION	HT MAX.	TF (IN)	TW (IN)	TOE (IN)	HEEL (IN)	WF (IN)	KEY (IN)	LD (IN)
1	7'-6"	12	8	24	32	56	8	31
2	4'-0"	10	8	14	22	36	-	25
3	9'-0"	12	10	38	48	86	-	31

REINFORCING																		
WALL SECTION	D1		D2		V1		V2		H1		H2		L		T		K	
	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	NO. REQ'D	SIZE	SPACE	SIZE	SPACE
1	5	12	—	—	5	12	—	—	4	12	—	—	4	6	5	18	—	—
2	4	12	—	—	4	12	—	—	4	10	—	—	4	4	4	18	—	—
3	5	18	5	9	5	18	5	18	4	12	4	12	5	6	5	18	—	—

WALL SCHEDULE

Bohannon & Huston
 Courtyard 1 7500 Jefferson St. NE Albuquerque, NM 87109-4335
 ENGINEERING & SPATIAL DATA & ADVANCED TECHNOLOGIES

**CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT**
**CLIFFORD CHANNEL REALIGNMENT
 RETAINING WALL DETAILS AND SCHEDULES**

Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.

City Project No. **6833.01** Zone Map No. **C-17-Z** Sheet **12** of **13**

BHI JOB NO. 030085.005.CWH Date: 06.17.03

Date: 06.17.03

KRISTAL METRO

C17 D1 E2

C-17/D1E2

MACIA PMAOS

768 2618