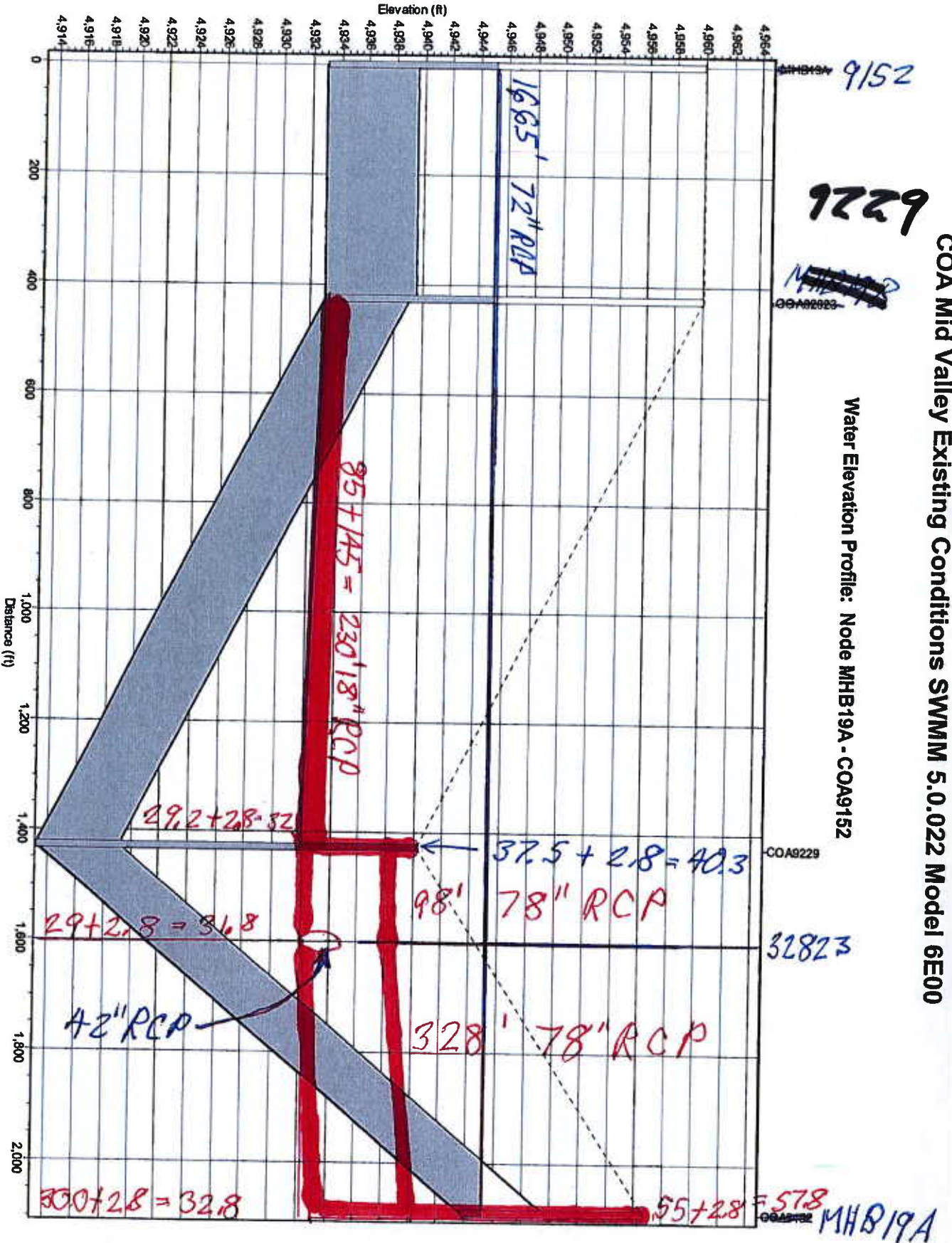
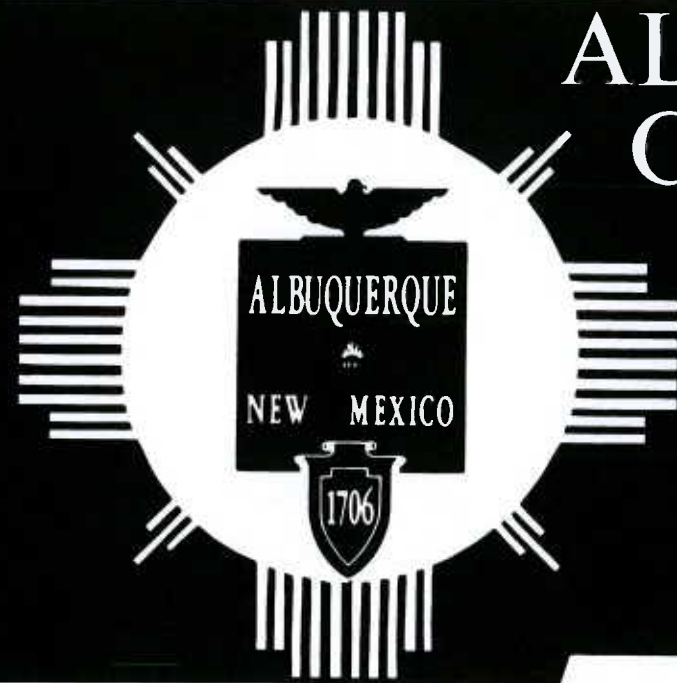


COA Mid Valley Existing Conditions SWMM 5.0.022 Model 6E00

Water Elevation Profile: Node MHB19A - COA9152



07/01/2011 02:05:30



ALBUQUERQUE CONVENTION CENTER

RENOVATION AND EXPANSION



HOLMES
SABATINI
EEDS

STEVENS, MALLORY, PEARL & CAMPBELL, ARCHITECTS
115 Amherst SE, Albuquerque, N.M. 87106 505-255-8668

PHASE 1 PARKING STRUCTURE & UTILITIES

CITY OF ALBUQUERQUE PROJECT #2736

URBAN PUMP STATION

DRAWING INDEX

CIVIL

- C1 GRADING PLAN PHASE 1 CONSTRUCTION
- C2 ENLARGED PARTIAL SITE PLAN AND RETAINING WALL SECTIONS
- C3 PROFILES, UNDERGROUND STORM WATER DETENTION FACILITY
- C4 DETAILS, UNDERGROUND STORM WATER DETENTION FACILITY
- C5 SITE DEMOLITION PLAN
- C6 WATERLINE PLAN AND PROFILE

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- A2 GROUND LEVEL AND LEVEL ONE PLAN
- A3 LEVEL TWO AND LEVEL THREE PLAN
- A4 LEVEL FOUR, UPPER RAMP PLAN AND ROOF PLAN
- A5 ENTRANCE BRIDGE AND HELIX PLAN AND ENLARGED TRAFFIC CONTROL PLANS
- A6 ENLARGED PLANS
- A7 STAIR AND ELEVATOR SECTIONS AND DETAILS
- A8 EXTERIOR ELEVATIONS
- A9 BUILDING SECTIONS AND ENLARGED ELEVATIONS
- A10 WALL SECTIONS
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- S3 LEVEL 2 AND LEVEL 3 FRAMING PLANS
- S4 LEVEL 4 AND UPPER RAMP FRAMING PLANS
- S5 FOUNDATION DETAILS AND RETAINING WALLS
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- S7 SLAB SCHEDULE
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- S10 BEAM ELEVATIONS
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- S12 BEAM ELEVATIONS
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- S16 SOUTH STAIR ENLARGED FRAMING PLANS
- S17 NORTH STAIR ENLARGED FRAMING PLANS AND DETAILS
- S18 STAIR DETAILS
- S19 GRAND AVE. ENTRANCE/EXIT PLANS AND SECTION
- S20 GRAND AVE. ENTRANCE/EXIT PROFILE AND DETAILS
- S21 GRAND AVE. ENTRANCE/EXIT PIER ELEVATION
- S22 GRAND AVE. ENTRANCE/EXIT PRESTRESSED CONCRETE BEAM AND DETAILS
- S23 EXIT RAMP FOUNDATION PLAN
- S24 EXIT RAMP FRAMING PLAN AND LONGITUDINAL PROFILE
- S25 EXIT RAMP PIER ELEVATIONS AND DETAILS
- S26 EXIT RAMP BEAM ELEVATIONS, SECTIONS AND DETAILS
- S27 EXIT RAMP PRESTRESSED CONCRETE BOX GIRDER DETAILS
- S28 MISCELLANEOUS SECTIONS AND DETAILS
- S29 BEAM ELEVATIONS MISCELLANEOUS

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- P2 GROUND AND LEVEL 1 PLUMBING PLAN
- P3 LEVEL 2 AND LEVEL 3 PLUMBING PLAN
- P4 LEVEL 4 AND UPPER LEVEL PLUMBING PLAN
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- E3 SITE PLAN, HELIX AND ENTRANCE BRIDGE
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- E7 1/4" SCALE FLOOR PLANS
- E8 POWER RISER DIAGRAM, PANEL SCHEDULES AND LOAD SUMMARY, GROUNDING DETAIL
- E9 SNOW MELTING PLANS AND DETAILS, ALTERNATE #1

VICINITY MAP



THE PROJECT SITE IS LOCATED IN THE DOWNTOWN URBAN CORE. MAJOR FREEWAY ACCESS TO THE CORE IS PROVIDED BY INTERSTATE 40, APPROXIMATELY 1 MILE NORTH OF THE SITE, AND INTERSTATE 25, APPROXIMATELY ONE-HALF MILE TO THE EAST OF THE SITE. A MAJOR RAILWAY CORRIDOR, OWNED BY ATCHISON, TOPEKA & SANTA FE RUNS THROUGH THIS CORE IN A NORTH-SOUTH DIRECTION, DIRECTLY ADJACENT TO THE PROJECT SITE. PRIMARY ACCESS TO THE SITE FROM INTERSTATE 40 IS VIA 3RD, 2ND, AND 4TH STREETS, WITH EGRESS FROM THE SITE TO 140 VIA 1ST, 2ND, AND 4TH STREETS. ACCESS TO, AS WELL AS EGRESS FROM, THE SITE FROM INTERSTATE 25 IS VIA LOWAS BOULEVARD, GRAND AND CENTRAL AVENUES.

DESIGN DATA (SEE SHEET S1 FOR DESIGN LOADS)

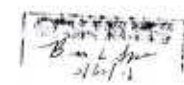
PROPERTY ZONE: SU-3
DESIGN ZONE: 2
OCCUPANCY GROUP: B-1 PARKING GARAGE
TYPE OF CONSTRUCTION: 1 F.R.
AREA COMPILE: 4 LEVELS EACH AT 53,726 S.F.
TOTAL AREA: 214,905 S.F.
EXIT WIDTH COMPILE: 53,726 * 268 = 14,398 FEET OF EXIT WIDTH REQUIRED
200
268 * 268 = 72,344 S.F.
9.67 FEET PROVIDED (2 STAIRS AT 4'-10" EACH)

FIRE RESISTIVE COMPONENTS

	REQUIRED	PROVIDED
EXTERIOR BEARING WALLS/ STRUCTURAL FRAME	4 HOUR	UBC - 45A, ITEM 54
INTERIOR BEARING WALLS	3 HOUR	NONE
EXTERIOR NON-BEARING WALLS	4 HOUR	NONE
STRUCTURAL FRAME	1 HOUR	STEEL PER U.B.C. 45-A CONCRETE PER U.B.C. 45-B ITEM 54
POWERTERS, PERMANENT	1 HOUR	STEEL PER U.B.C. 45-B ITEM 54 C.M.U. PER U.B.C. 45-B ITEM 54
SHAFT ENCLOSURES	2 HOUR	CONCRETE PER U.B.C. 45-B ITEM 54
FLOORS	2 HOUR	CONCRETE PER U.B.C. 45-C ITEM 1
ROOFS	2 HOUR	CONCRETE PER U.B.C. 45-C ITEM 1 AND STEEL PER U.B.C. 45-B ITEM 54
HORIZONTAL OCCUPANCY	3 HOUR	CONCRETE PER UBC 45A, ITEMS 52 & 34
VERTICAL OCCUPANCY	3 HOUR	R* C.M.U. PER U.B.C. 45-B

BUILDING IS EQUIPPED WITH FULLY AUTOMATIC SPRINKLER SYSTEM DESIGNED PER NFPA 13

LEGAL DESCRIPTION:



BOYLE ENGINEERING CORPORATION

CIVIL & STRUCTURAL

BRIDGERS & PAXTON CONSULTING ENGINEERS, INC.

MECHANICAL & PLUMBING

UHL & LOPEZ ELECTRICAL CONSULTING ENGINEERS

ELECTRICAL

216 27360191

AS-BUILT 7-4-90

GENERAL NOTES

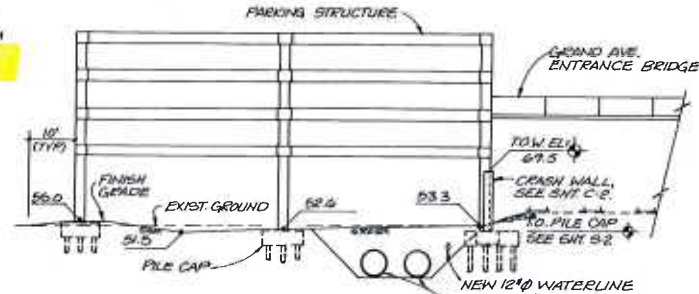
1. CITY OF ALBUQUERQUE PROJECT NO. 3244, THE URBAN ROADWAY PROJECT (MARTIN LUTHER KING BOULEVARD), WILL BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT. CONTRACTOR SHALL COORDINATE PARKING STRUCTURE CONSTRUCTION WITH PROJECT NO. 3244 CONSTRUCTION. SEE SPECIFICATIONS FOR REQUIRED CONSTRUCTION SEQUENCE AND ADDITIONAL COORDINATION REQUIREMENTS.
2. GRADING PLAN, SHEET C-1 SHOWS PROJECT NO. 3244 IMPROVEMENTS AS BEING IN PLACE. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. SEE SHEET C-3 FOR SITE CONDITIONS PRIOR TO PROJECT NO. 3244 AND FOR REMOVAL/DENOTIFICATION REQUIREMENTS. SEE SHEET C-3 FOR REMOVAL DETAILS ALONG TIJERAS AVENUE.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATION SERVICE 785-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. ALL WORK ASSOCIATED WITH THE UNDERGROUND STORM WATER DETENTION FACILITY AND WITH WATER AND SEWER UTILITY LINES, AS DETAILED ON THESE PLANS, SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS OF THE "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION-1986," USING PROCEDURES PRESCRIBED IN SECTION 18 OF THE GENERAL CONDITIONS AND CONFORMING TO THE INSPECTION, ACCEPTANCE, AND WARRANTY POLICIES OF SECTION 13 OF THE GENERAL CONDITIONS OF THE 1986 STANDARD SPECIFICATIONS.
6. CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER (785-2780) THREE (3) WORKING DAYS PRIOR TO THE OPENING OF ANY DETOUR.
7. ALL COORDINATES ARE IDENTIFIED AS GROUND COORDINATES USING A GROUND-TO-GRID FACTOR OF 0.998479. THE GRID IS FOR THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE. STATE PLANE GRID COORDINATES = GROUND COORDINATES X GROUND-TO-GRID FACTOR. ALL DIMENSIONS SHOWN ARE GROUND DISTANCES. GRID DISTANCE = GROUND DISTANCE X GROUND-TO-GRID FACTOR.
8. CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEMS DIVISION (823-4200) FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN THREE WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES.

COORDINATE CONTROL POINT SCHEDULE

POINT	NORTH	EAST	DESCRIPTION
1	1487597.67	381530.42	INTERSECTION GRID "35" AND GRID "1"
2	1486972.91	381482.08	CENTER OF HELIX DELTA = 315° 0' 0" L = 140.16'
3	148692477	381395.04	END EXIST RAMP HELIX CONSTRUCTION
4	1487163.08	381403.56	STA. 10+00 "W" - STA. 20+00 "W" CONCRETE JUNCTION BOX "A"
5	1487143.33	381525.98	PI STA. 11+24.00 "W" DELTA = 31° 30' 00"
6	1487187.81	381553.43	PI STA. 11+24.24 "W" DELTA = 31° 30' 00" CONCRETE JUNCTION BOX "B"
7	1487709.07	381437.53	STA. 17+04.25 "W" END CONSTRUCTION LINE "W"
8	1487163.88	381398.63	PI STA. 20+05.00 "W" DELTA = 31° 44' 36"
9	1487220.33	381304.49	PI STA. 21+14.50 "W" DELTA = 31° 15' 24"
10	1487409.03	381148.27	PI STA. 23+47.50 "W" DELTA = 45° 00' 00"
11	1487422.57	381084.36	STA. 24+22.50 "W" END CONSTRUCTION LINE "W"
12	1487315.25	381392.98	ASC BRASSCAP #936 ELEV. 4953.38
13	N.A.	N.A.	ASC BRASSCAP ON R.H. OVERPASS ELEV. 4959.478

TYPICAL SECTION - CONSTRUCTION LINE "W"

SCALE: 1"=20'



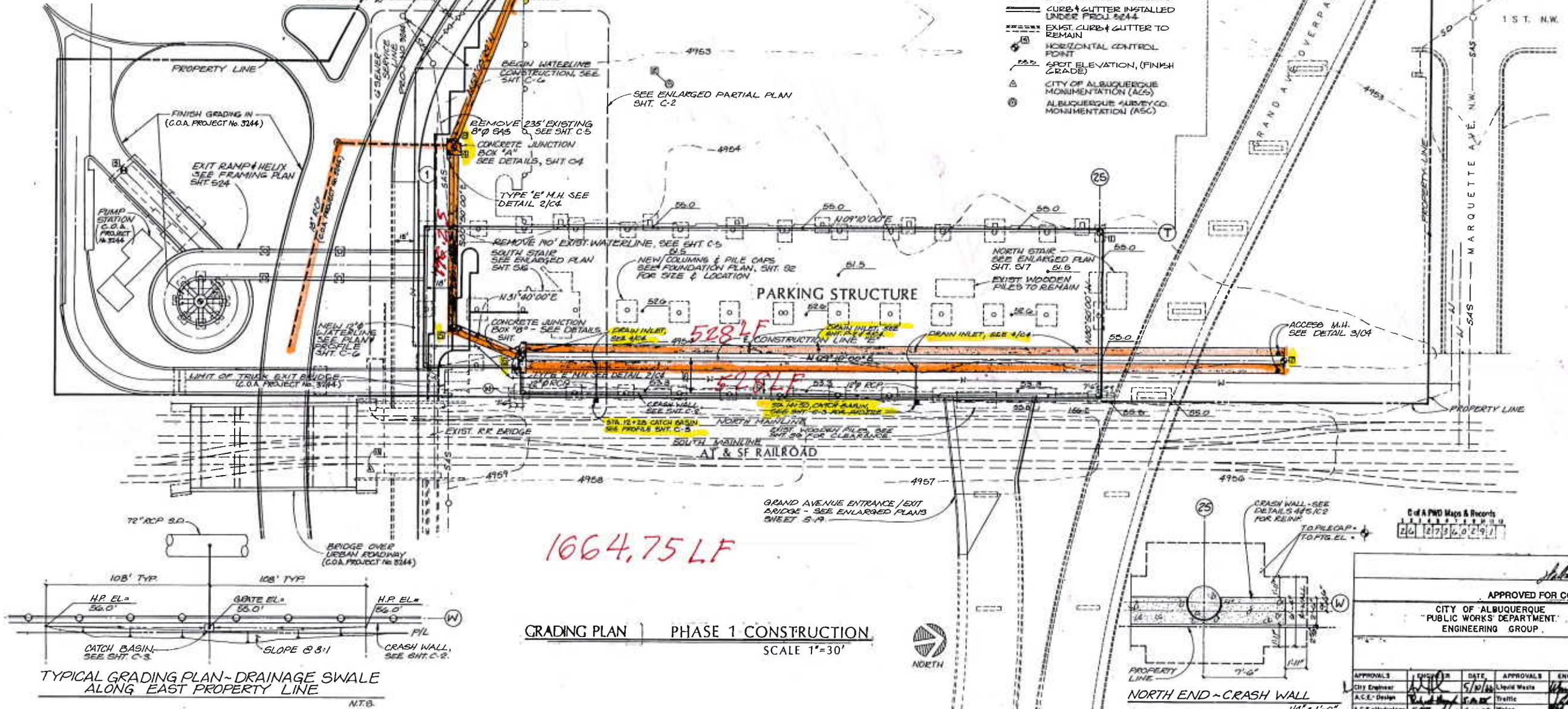
TYPICAL SECTION - GRID 3 TO GRID 25

SCALE: 1"=20'

CONVENTION CENTER EXPANSION (PHASE 2)

LEGEND

- UTILITIES INSTALLED UNDER PROJ. 3244
- W- NEW WATERLINE INSTALLED UNDER THIS CONTRACT
- EXIST UTILITIES TO REMAIN
- CURB & GUTTER INSTALLED UNDER PROJ. 3244
- EXIST CURB & GUTTER TO REMAIN
- HORIZONTAL CONTROL POINT
- SPOT ELEVATION (FINISH GRADE)
- CITY OF ALBUQUERQUE MONUMENTATION (ACS)
- ALBUQUERQUE SURVEY CO. MONUMENTATION (ASC)



TYPICAL GRADING PLAN - DRAINAGE SWALE ALONG EAST PROPERTY LINE

N.T.S.

GRADING PLAN | PHASE 1 CONSTRUCTION SCALE 1"=30'

APPROVED FOR CONSTRUCTION
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CITY Engineer	5/10/16		Liquid Waste		
A.C.E. Design	5/10/16		Traverse		
A.C.E. Hydrology	5/10/16		Water		

DRAWING NO. 2736
MAP NO. K-14

REVISED DATE
AS-BUILT 7-4-90

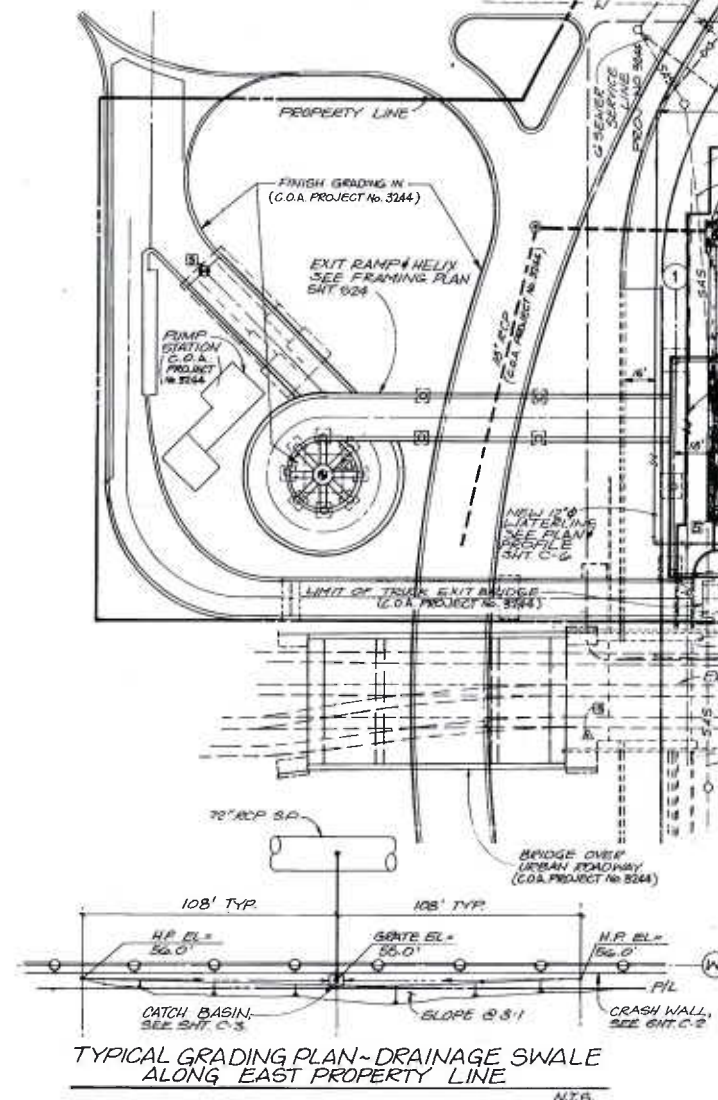
PARKING STRUCTURE
GRADING PLAN
PHASE 1 CONSTRUCTION

ALBUQUERQUE
CONVENTION CENTER
EXPANSION

SHEET
C-1
OF 67

GENERAL NOTES

1. CITY OF ALBUQUERQUE PROJECT NO. 3244, THE URBAN ROADWAY PROJECT (HARTER LUTHER KING BOULEVARD), WILL BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT. CONTRACTOR SHALL CLOSELY COORDINATE PARKING STRUCTURE CONSTRUCTION WITH PROJECT NO. 3244 CONSTRUCTION. SEE SPECIFICATIONS FOR REQUIRED CONSTRUCTION SEQUENCE AND ADDITIONAL COORDINATION REQUIREMENTS.
2. GRADING PLAN, SHEET C-1 SHOWS PROJECT NO. 3244 IMPROVEMENTS AS BEING IN PLACE. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. SEE SHEET C-5 FOR SITE CONDITIONS PRIOR TO PROJECT NO. 3244 AND FOR REMOVAL/DENUDATION REQUIREMENTS. SEE SHEET C-3 FOR REMOVAL DETAILS ALONG TIJERAS AVENUE.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATION SERVICE 760-1124, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. ALL WORK ASSOCIATED WITH THE UNDERGROUND STORM WATER DETENTION FACILITY AND WITH WATER AND SEWER UTILITY LINES, AS DETAILED ON THESE PLANS, SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS OF THE "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION-1981," BEING PROCEDURES PRESCRIBED BY SECTION 14 OF THE GENERAL CONDITIONS AND CONFORMING TO THE INSPECTION, ACCEPTANCE, AND WARRANTY POLICIES OF SECTION 13 OF THE GENERAL CONDITIONS OF THE 1981 STANDARD SPECIFICATIONS.
6. CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER (760-2780) THREE (3) WORKING DAY PRIOR TO THE OPENING OF ANY DETOUR.
7. ALL COORDINATES ARE IDENTIFIED AS GROUND COORDINATES USING A GROUND-TO-GRID FACTOR OF 0.999479. THE GRID IS FOR THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE. STATE PLANE GRID COORDINATES = GROUND COORDINATES X GROUND-TO-GRID FACTOR. ALL DIMENSIONS SHOWN ARE GROUND DISTANCES. GRID DISTANCE = GROUND DISTANCE X GROUND-TO-GRID FACTOR.
8. CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEMS DIVISION (813-4205) FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN THREE WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES.



GRADING PLAN PHASE 1 CONSTRUCTION

SCALE 1"=30'



COORDINATE CONTROL POINT SCHEDULE

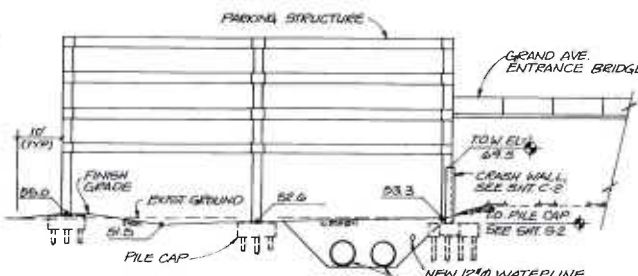
POINT	NORTH	EAST	DESCRIPTION
1	1487997.67	381970.42	INTERSECTION GRID "25" AND GRID "T"
2	1486972.81	381482.06	CENTER OF BELL DELTA = 33° 3' 0" L = 140.13'
3	148695471	381345.54	END EXIT RAMP HELIX CONSTRUCTION
4	1487143.08	381403.58	STA. 13+00 "E" = STA. 20+00 "M" CONCRETE JUNCTION BOX "A"
5	1487143.33	381525.98	PI STA. 13+24.08 "E" DELTA = 37° 38' 00"
6	1487187.81	381593.47	PI STA. 13+76.26 "E" DELTA = 22° 30' 00" CONCRETE JUNCTION BOX "B"
7	1487780.03	381637.53	STA. 17+04.26 "E" END CONSTRUCTION LINE "E"
8	1487163.88	381398.63	PI STA. 20+05.00 "M" DELTA = 31° 44' 36"
9	1487220.23	381364.68	PI STA. 21+14.58 "M" DELTA = 37° 18' 14"
10	1487409.03	381346.27	PI STA. 22+47.50 "M" DELTA = 48° 05' 05"
11	1487422.57	381004.36	STA. 24+32.50 "M" END CONSTRUCTION LINE "M"
12	1487315.45	381392.90	ASC BRASSCAP #936 ELEV. 4953.30
13	N.A.	N.A.	ASC BRASSCAP OR R.R. OVERPASS ELEV. 4950.478

LEGEND

- UTILITIES INSTALLED UNDER PROJ. 3244
- W- NEW WATERLINE INSTALLED UNDER THIS CONTRACT
- EXIST. UTILITIES TO REMAIN
- CURB & GUTTER INSTALLED UNDER PROJ. 3244
- EXIST. CURB & GUTTER TO REMAIN
- HORIZONTAL CONTROL POINT
- △ SPOT ELEVATION, (FINISH GRADE)
- △ CITY OF ALBUQUERQUE MONUMENTATION (ACS)
- △ ALBUQUERQUE SURVEY CO. MONUMENTATION (ASC)

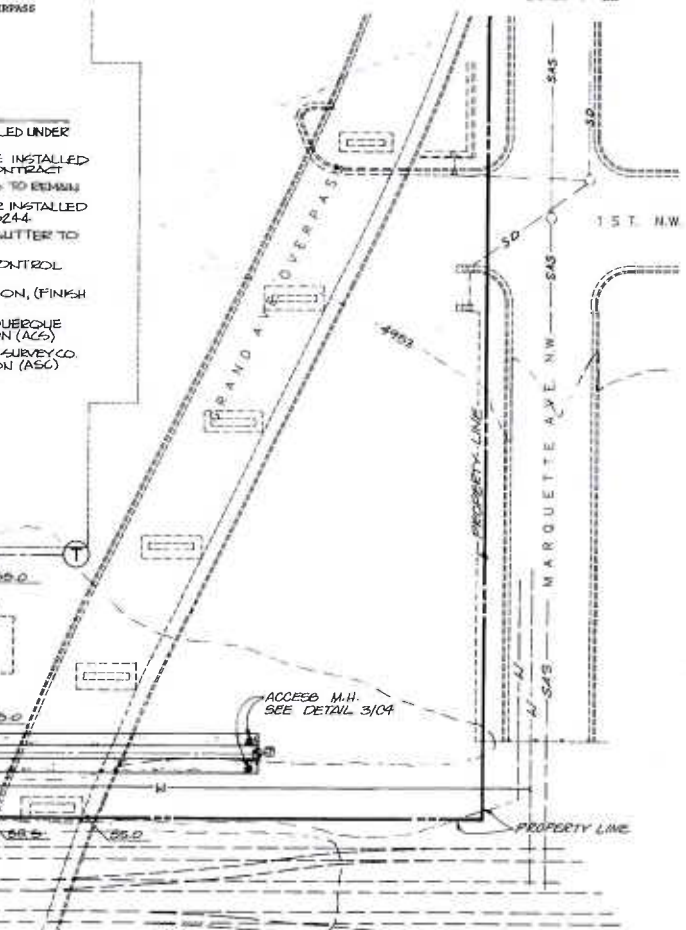
TYPICAL SECTION - CONSTRUCTION LINE "W"

SCALE 1"=20'



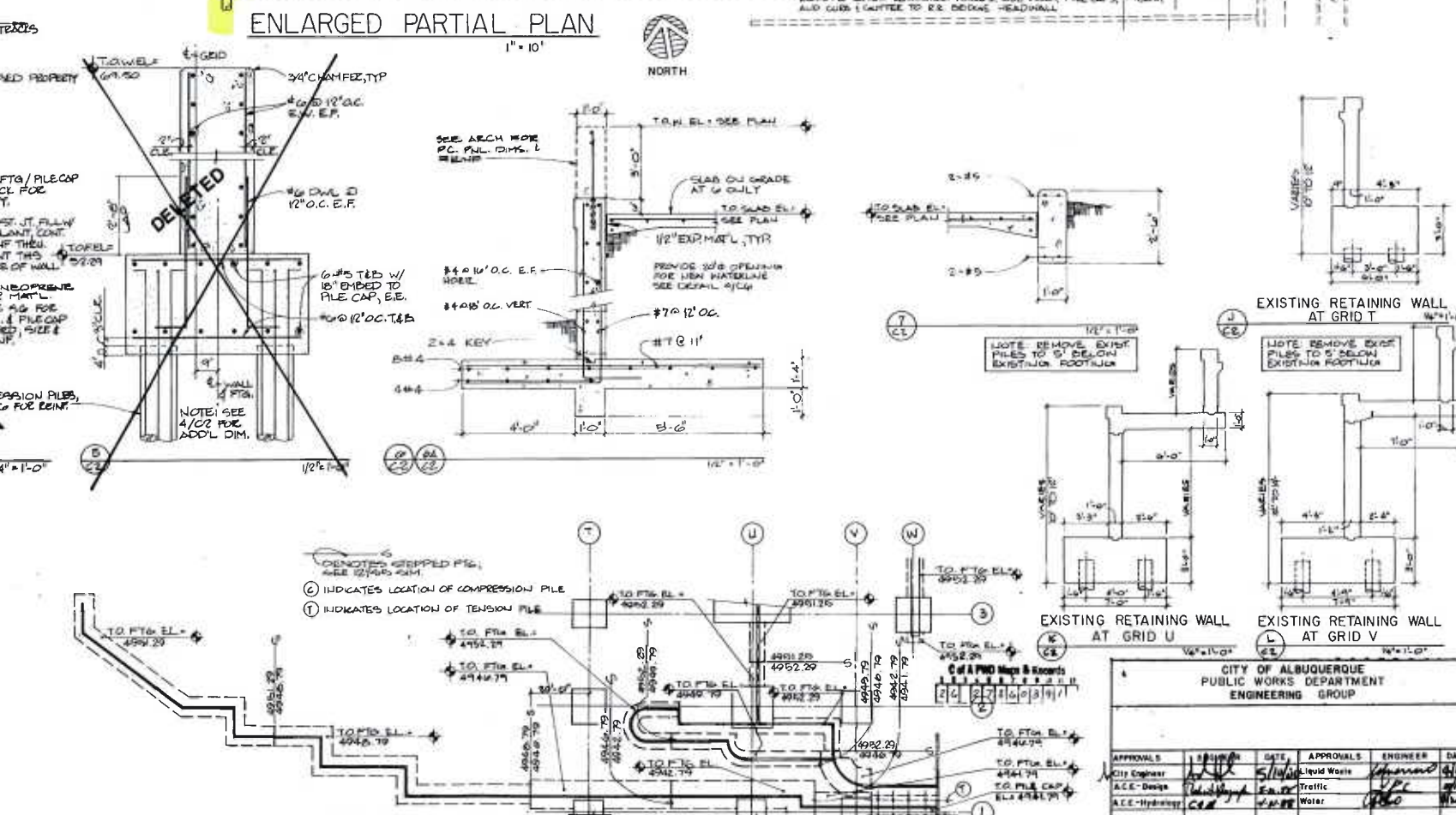
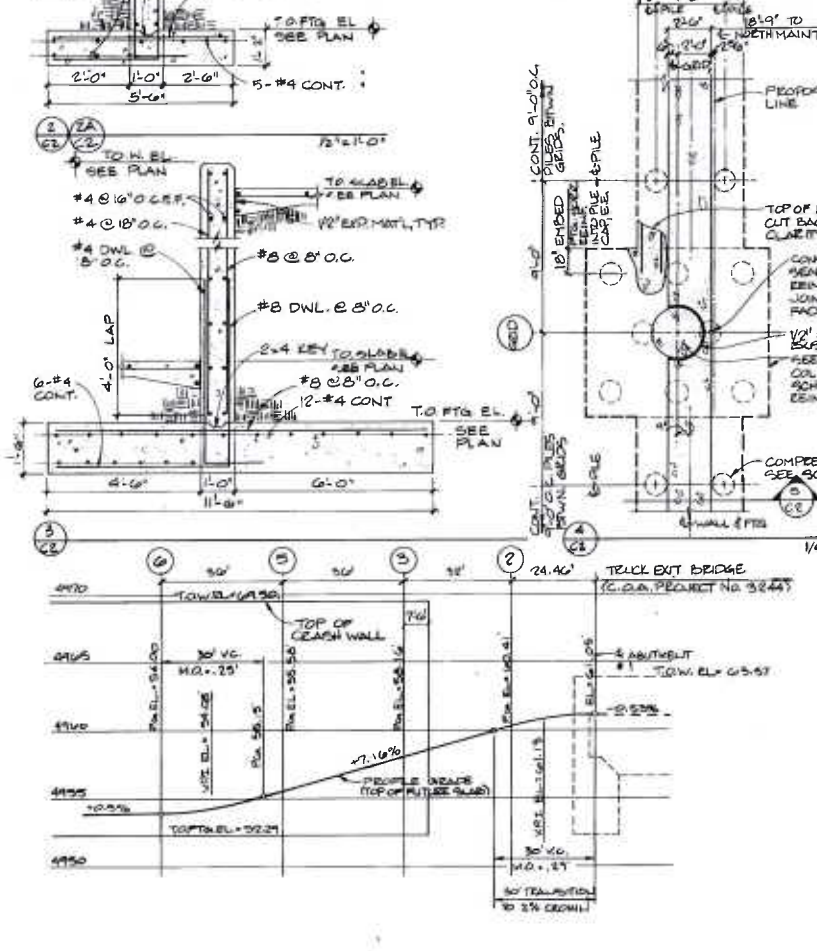
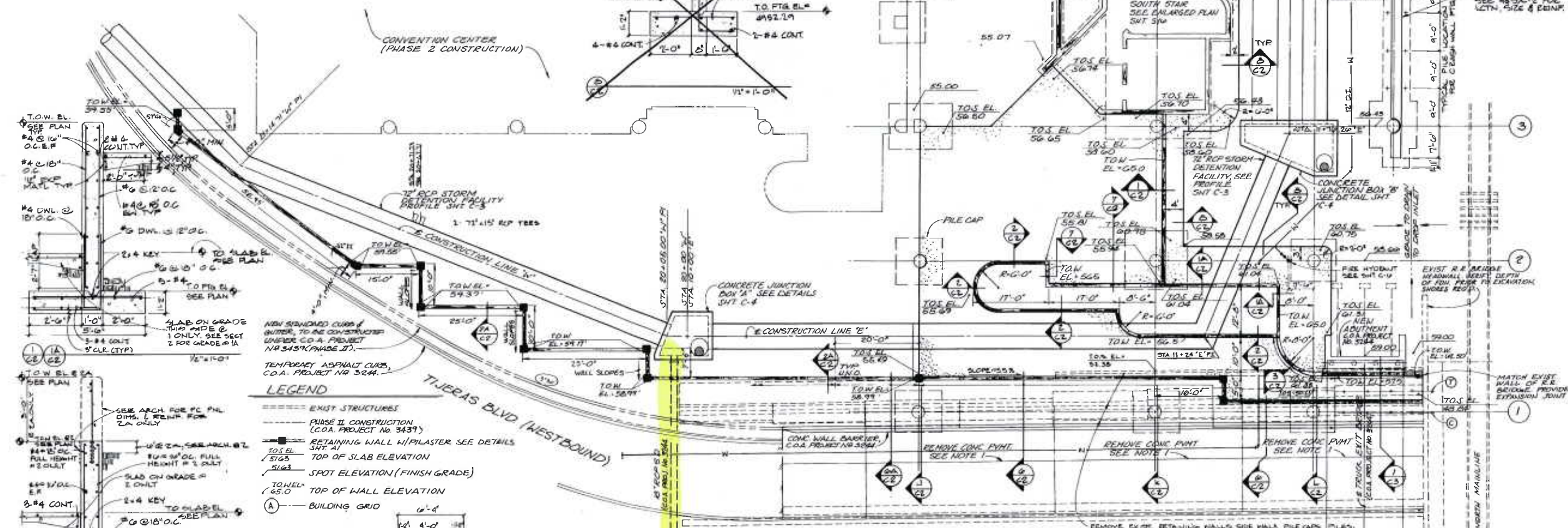
TYPICAL SECTION - GRID 3 TO GRID 25

SCALE 1"=20'



NOTES

1. REMOVE EXIST. CONC. PAVEMENT TO NEAREST JOINT, AND REPLACE WITH 6" TEMPORARY ASPHALT PAVEMENT.
2. EXIST. UTILITY LINES ARE NOT SHOWN ON THIS SHEET FOR CLARITY. SEE SHEET C-1 FOR LOCATION OF UTILITY LINES.

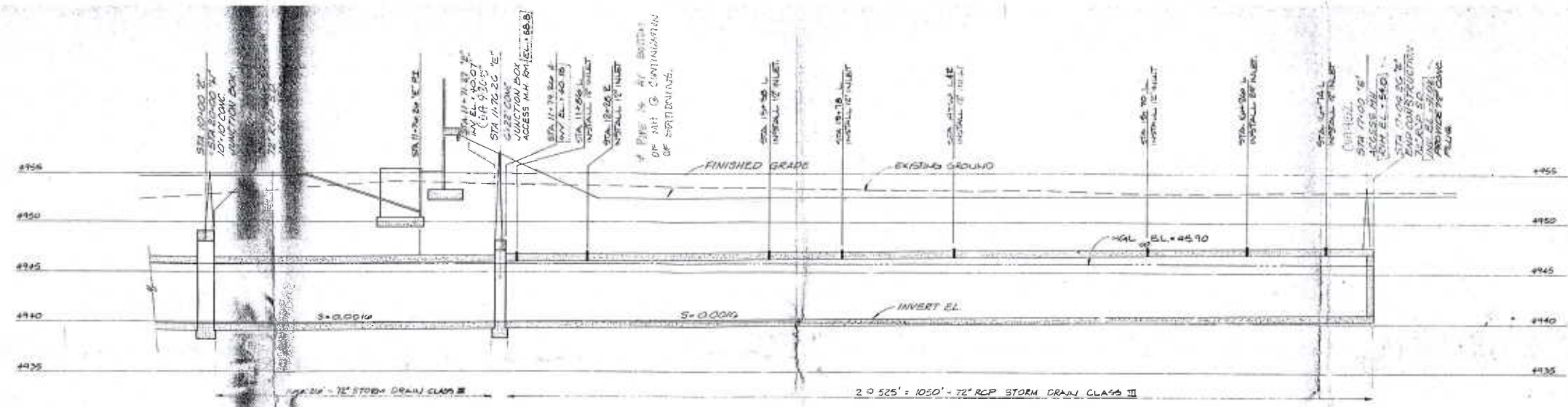


PARKING STRUCTURE.
ENLARGED PARTIAL PLAN.
RETAINING WALL SECTIONS

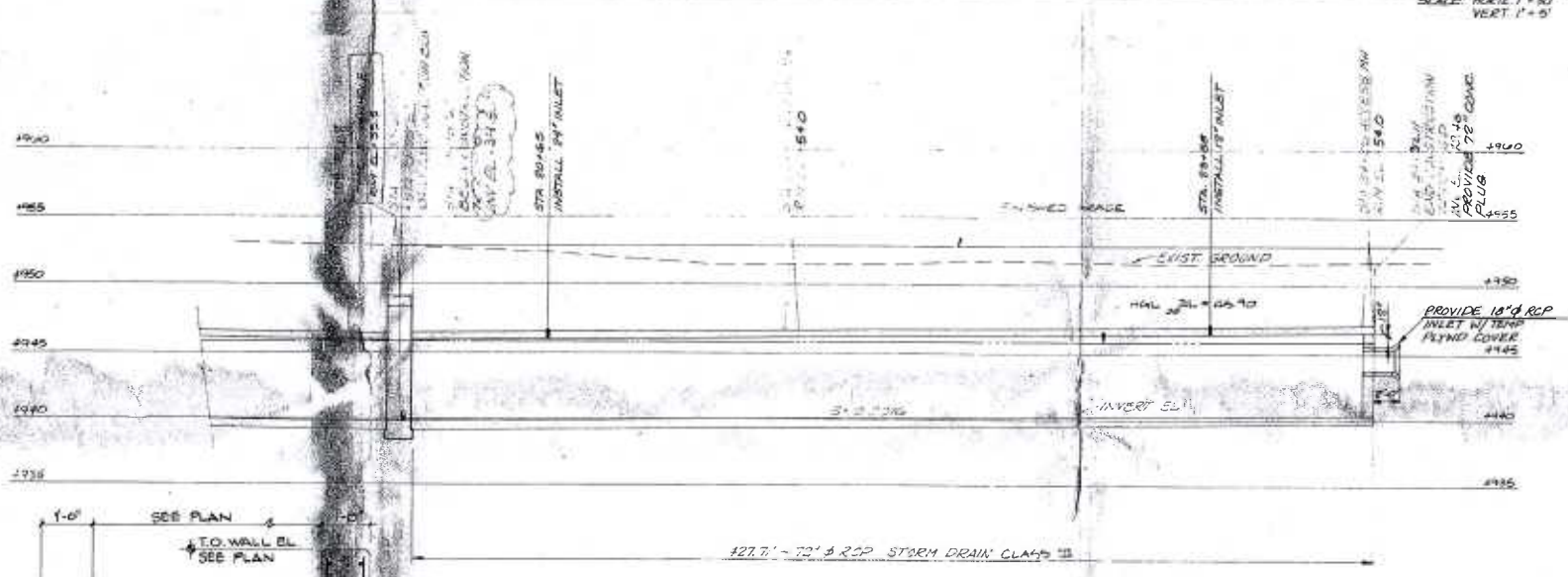


CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
APPROVALS	DATE	APPROVALS	DATE
CITY Engineer	5/14/00	Liquid Waste	5/14/00
ACE-Design	5/14/00	Traffic	5/14/00
ACE-Hydrology	5/14/00	Water	5/14/00
DRAWING NO. 2736	MAP NO. K-14		

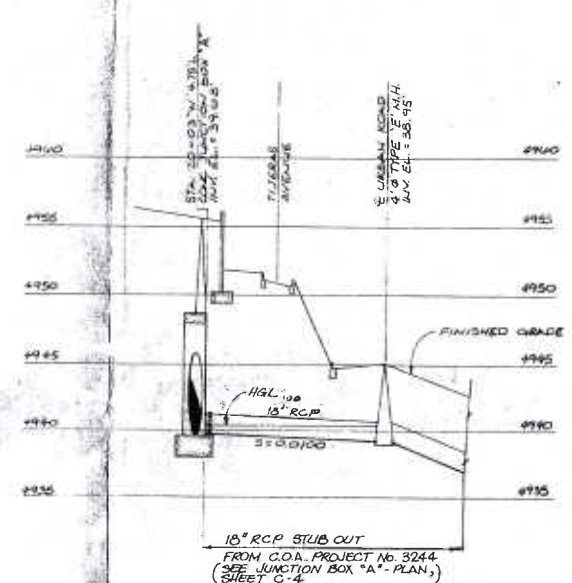
C-2
OF 67



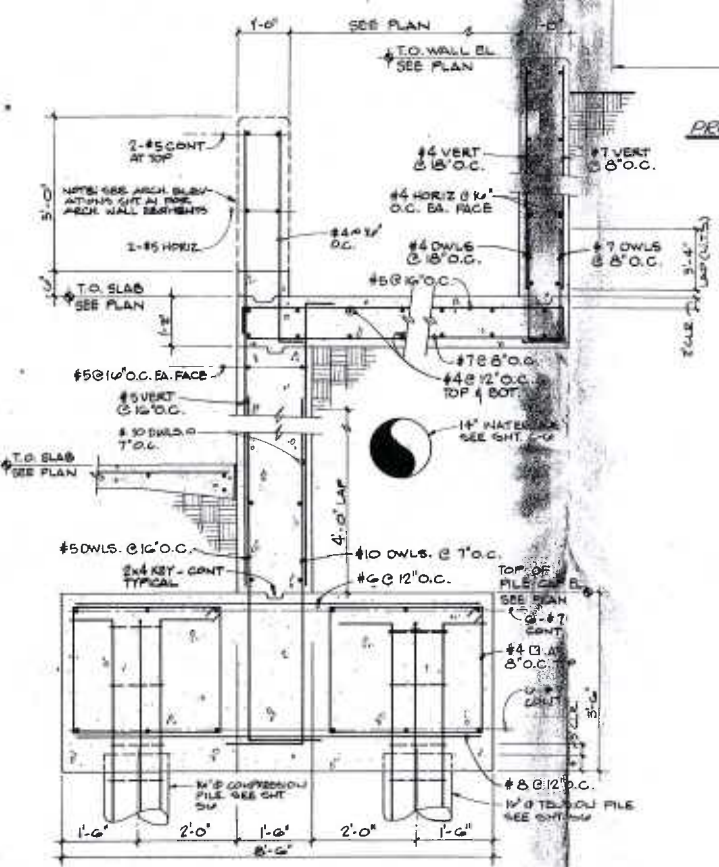
PROFILE - CONSTRUCTION LINE "E"



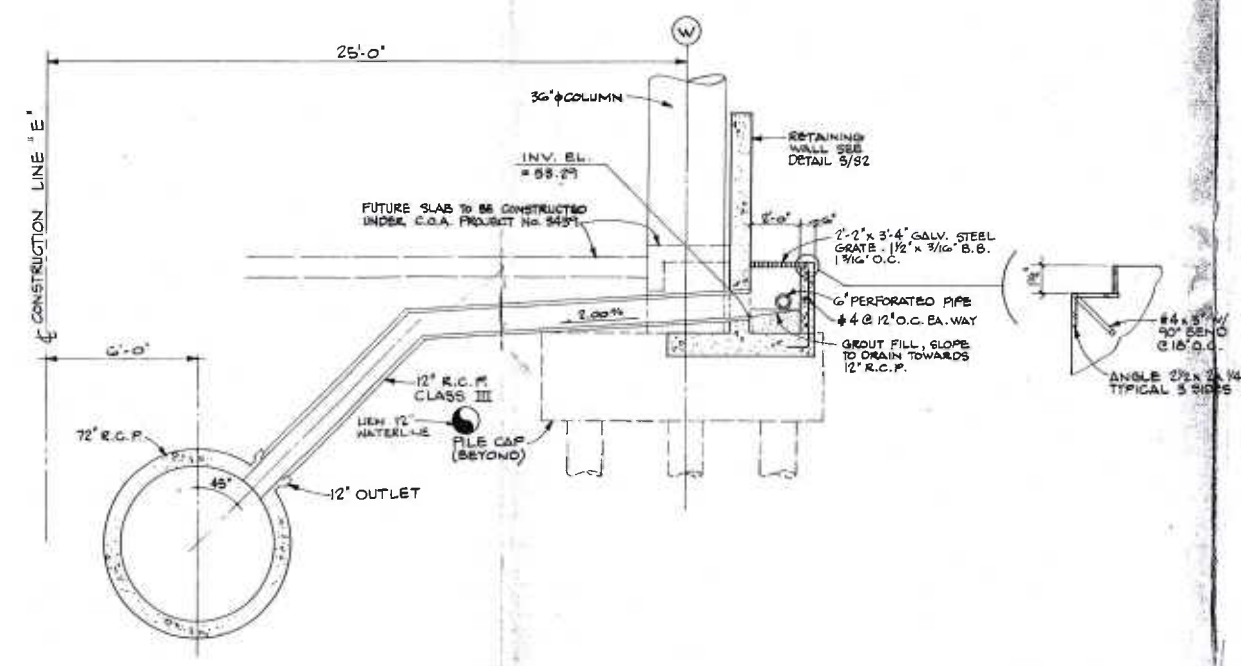
PROFILE - CONSTRUCTION LINE "W"



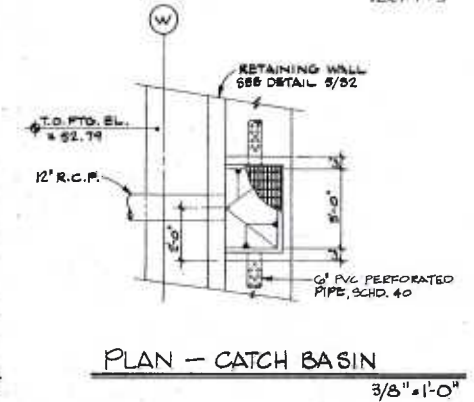
PROFILE - URBAN ROAD S.D. (G.O.A. PROJECT NO. 3244)



SECTION 3/4" = 1'-0"



PROFILE - CATCH BASIN AND 12" R.C.P. STORM DRAIN (SEE PLAN, SHEET C-1) 3/8" = 1'-0"



PLAN - CATCH BASIN 3/8" = 1'-0"

PRINTED JAN 22 1988

ENGINEERING CORPORATION RECORD 581A-1-13-80

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP

JAN 25 1988

HYDROLOGY SECTION

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CHY Engineer			LIQUID Waste		
CEE-Design			Health		
CEE-Inspection			Water		

DRAWING NO. 0736 MAP NO. 1-1A

REVISION DATE

OLD DETAIL - (+) 2-67

PARKING STRUCTURE PROFILES UNDERGROUND STORMWATER DETENTION FACILITIES

REVISION AND EXPANSION

UPS 2-4

SHEET C-3

OF



REVISION DATE
AS-BUILT 1-4-90

**PARKING STRUCTURE
DETAILS
UNDERGROUND STORMWATER
DETENTION FACILITY**



SHEET

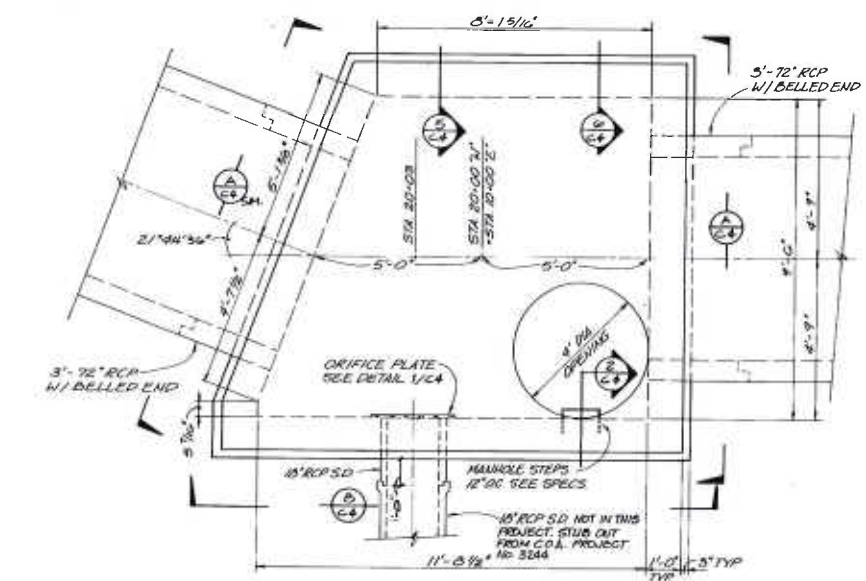
C-4
OF 61

C of A PWD Maps & Records
12/6 12/7 12/16 05/19/1

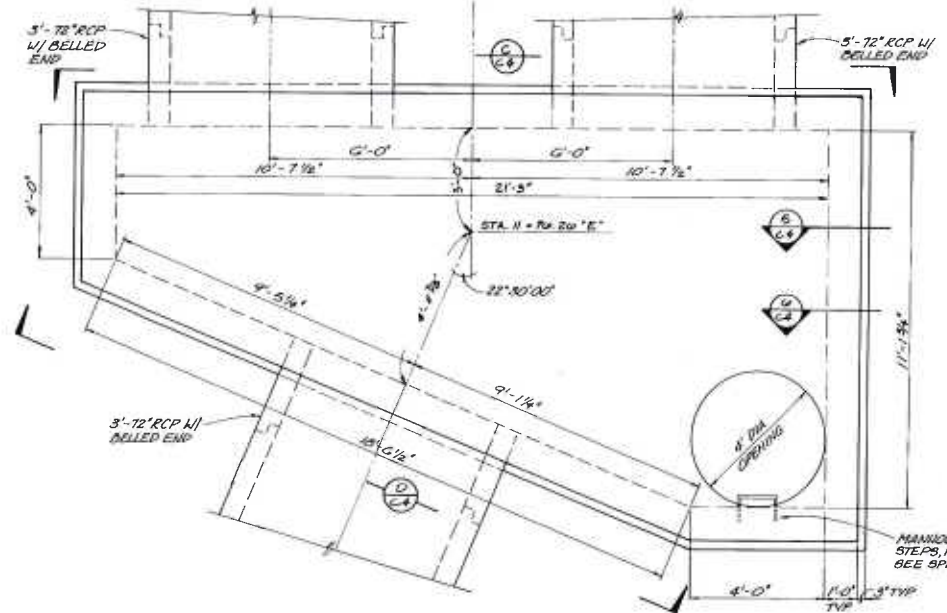
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

APPROVALS	DESIGNER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[Signature]	5/1/90	Utility Manager	[Signature]	4/1/90
A.C.E. Design	[Signature]	5/1/90	Traffic	[Signature]	4/1/90
A.C.E. Hydrology	[Signature]	5/1/90	Water	[Signature]	4/1/90

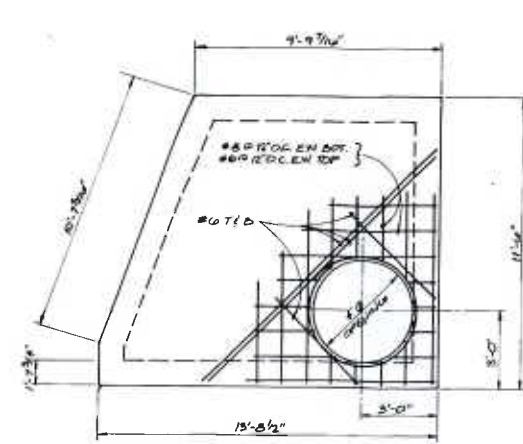
DRAWING NO. 2736 MAP NO. K-14



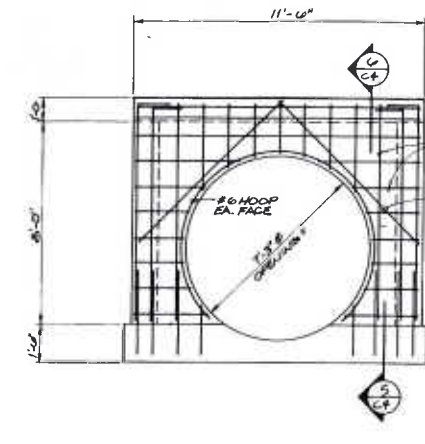
CONCRETE JUNCTION BOX 'A' - PLAN



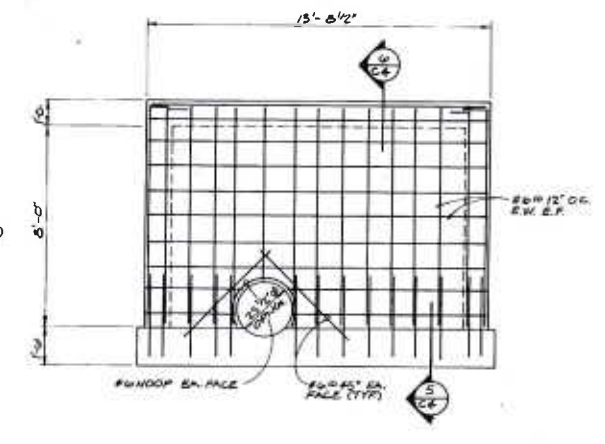
CONCRETE JUNCTION BOX 'B' - PLAN



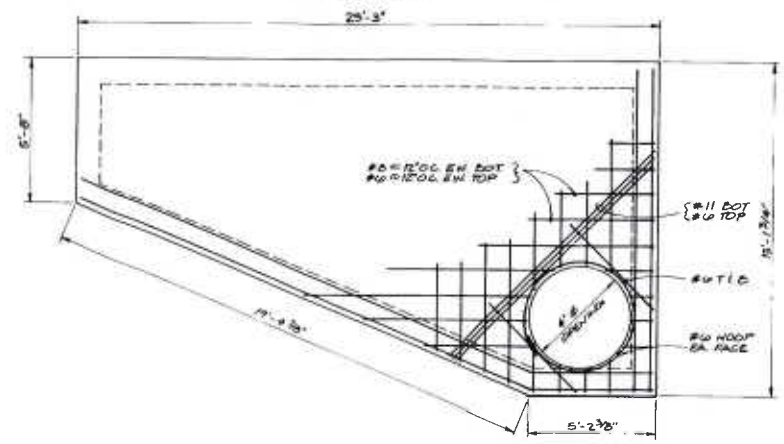
PLAN - TOP SLAB JUNCTION BOX 'A'



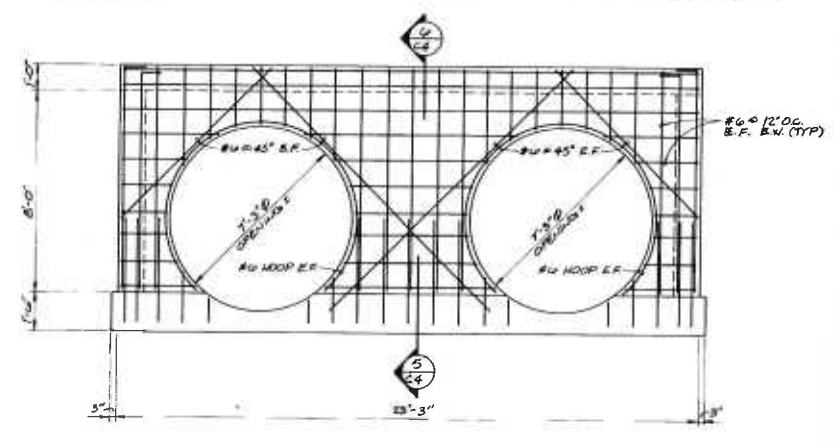
ELEVATION A



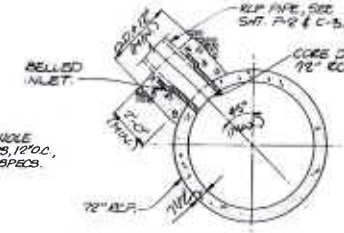
ELEVATION B



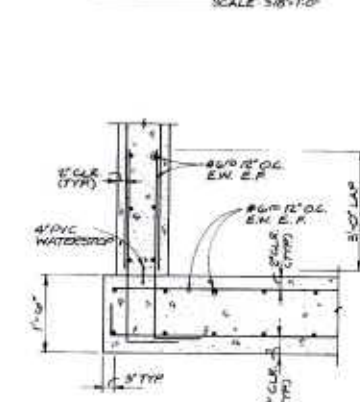
PLAN - TOP SLAB JUNCTION BOX 'B'



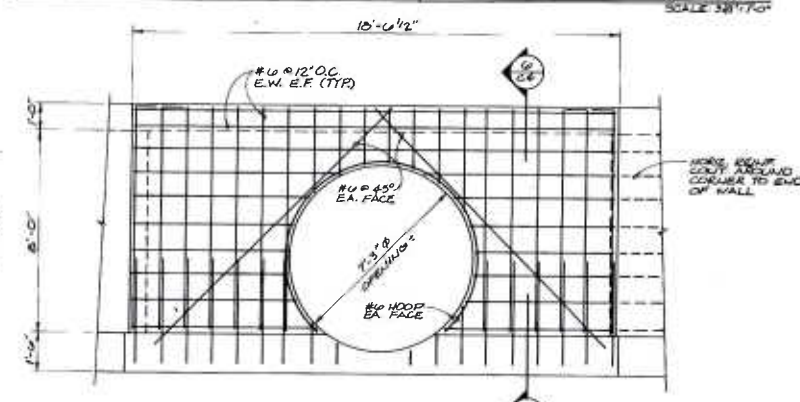
ELEVATION C



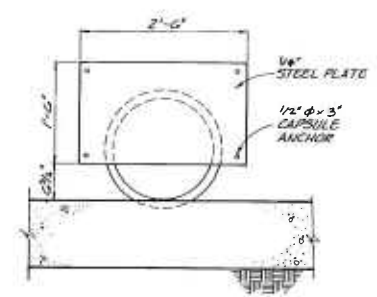
DRAIN INLET DETAIL



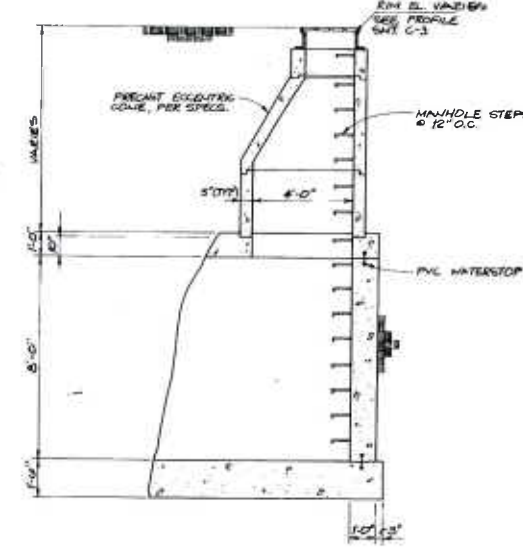
DETAIL



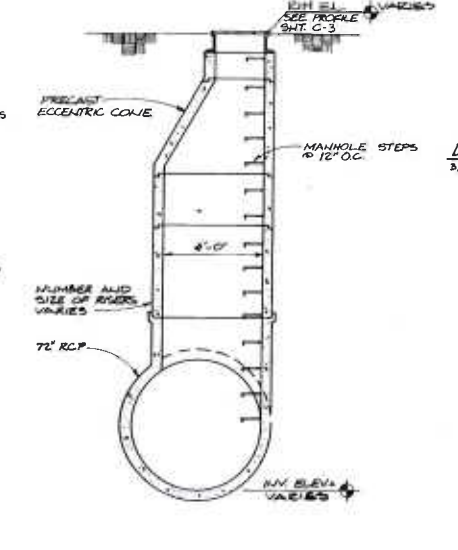
ELEVATION D



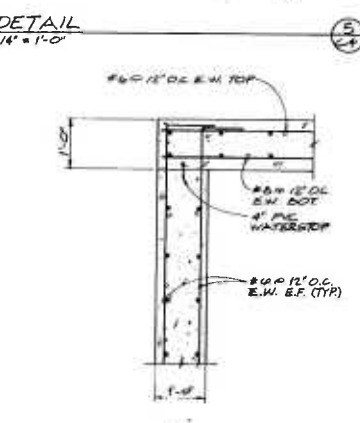
ORIFICE PLATE DETAIL



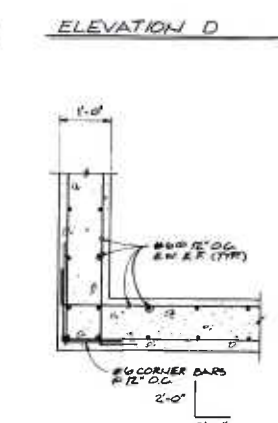
TYPE 'E' MANHOLE DETAIL



ACCESS MANHOLE DETAIL



DETAIL



TYP. WALL CORNER REINF.

