APPENDIX 2.6 – Detention Pond Routing Data

Contains:

Detention / Surge Ponds

Broadway – Lomas Pond

Table BLP - Broadway & Lomas Detention Pond (Plans and as-builts included)

Tingley Surge Pond

Table TP - Tingley Surge Pond (Plans and as-builts included)

Air Quality Detention Pond

Table AQP - Air Quality Pond (Plans and as-builts included)

Retention / Detention Pond

Table 8P – NMDOT 8th St. & I-40 Retention / Detention Pond
NOTE – This pond not modeled with a detention pond routing

BROADWAY LOMAS DETENTION POND

Table BLP - Broadway & Lomas Detention Pond (Plans and as-builts included)

BROADWAY / LOMAS POND Mid-Valley Drainage Management Plan 1 of 2

Hydraulic Assumptions for Orifice Flow and Weir Flow
(8 ft. x 8 ft. Steel Grate Principal Spillway)

SWMM Model Dynamic Routing

An elevation – discharge – storage rating curve is required to simulate a detention pond routing. Basic initial assumptions regarding orifice or weir flow for various outfall structures are required. However, during a model simulation, the hydraulics and hydraulic grade line of the outfall storm drain may limit the discharge from the pond as defined by the rating curve. Therefore, weir flow assuming free un-submerged discharge may be valid for small storms and most of the hydrograph of a larger storm, but could become submerged for some time during a large storm hydrograph and again become un-submerged during the receding hydrograph limb.

Therefore, the flow type is most likely variable and complex, and an assumption is required to develop an initial rating curve, based on what type of flow may be predominant for the given situation and storm return period simulated.

This analysis has assumed that the predominant flow for the 8 ft. x 8 ft. principal spillway is un-submerged weir flow.

Orifice Flow

Storm drain pipes and small water quality pipes (slanted small pipes in concrete walls) are computed with the orifice equation using partial pipe areas for a given water depth until pipe is submerged, then the full pipe area is applied untill the maximum pond water depth to obtain the rating curve upper limit. Table BLP attached defines the orifice equation(s), coefficient and presents the computation results.

Weir Flow (Principal Spillway Grate and Top of Pond Embankment)

A weir operates as a function of head on the weir and weir length perpendicular to flow, and for this analysis a free fall discharge is assumed. Velocity after the water fall is therefore not a factor for the free fall assumption. As described previously, an assumption of weir submergence should be considered for the weir free fall assumption to remain valid. Depending on the structure configuration, a submerged weir could act as an orifice.

The vertical concrete wall that supports the 8 ft. x 8 ft. grate will act as the weir crest. Comparison of the top of pond and grate elevations follows:

Top of Pond Elevation	=	4956.66 ft
Top of Grate Elevation	=	4952.36 ft
Difference	=	4.3 ft

Note – Initial 100-yr. storm pond routings indicate maximum depth much less than this difference.

Assuming that the outfall storm drain does not cause hydraulic interference with the principal spillway grate free flow assumption, then three to four feet of water will immediately gravity fall from one side of the concrete wall into the grate far before the water would intersect water falling from the adjacent walls. Some inefficiency of the weir flow would occur at each corner, as the flow from

adjacent walls will intersect during the fall. Therefore, adjustment for weir flow inefficiency due to flow intersection may be simulated through the weir coefficient.

Weir Coefficient

The vertical concrete walls and flat top of walls (1 – foot wide = breadth of weir crest) that hold the 8 ft. x 8-ft. grate are assumed to act as broad crested weirs. The weir coefficient for 1-foot bread and 3 feet of head is 3.32 as presented in Table 5-3 from "Handbook of Hydraulics", Sixth Edition, by Brater & King, 1976. Smith Engineering Company assumed a reduced weir coefficient of 3.0 to account for weir inefficiency as described above. Table BLP attached defines the weir equation, coefficient and presents the computation results.

Conclusion – Assume that the principal spillway 8 ft. x 8 ft. grate will act a free fall weir and the grate bar spacing even with some debris, will not affect the weir flow computation.

See Table BLP and as-builts / plans attached for more information.

BROADWAY/LOMAS DETENTION POND

DATA and POND ROUTING DATA / COMPUTAIONS

Pond Annotated Photographs: 6 Pages attached

Elevation-Storage-Discharge: Data table for SWMM model attached

Pond Design Report or Pond Routing Model Available to adopt the Pond Elevation – Area – Discharge Rating Curve Data:

COA stated: Not Available

Pond As-Built Plans Available:

COA stated: Yes Is Available

Pond Construction Plans Available if no As-Built Plans :

COA stated: Yes Available

***Elevation is datum 1929 NGVD from construction docs - Benchmark "1-K13"**
Conversion Factor from 29 datum to 88 datum = 2.66 feet (see attached)

SEC Assumed Elevations for Principal and Emergency Spillways based on:
2007 Lidar Elevations, No

Was Pond Designed as a Surge Pond ? Yes

Pond Plan and Profile Schematic View Sketch:
Attached: Yes Vertical Datum 88 1 Page attached

Public: Yes

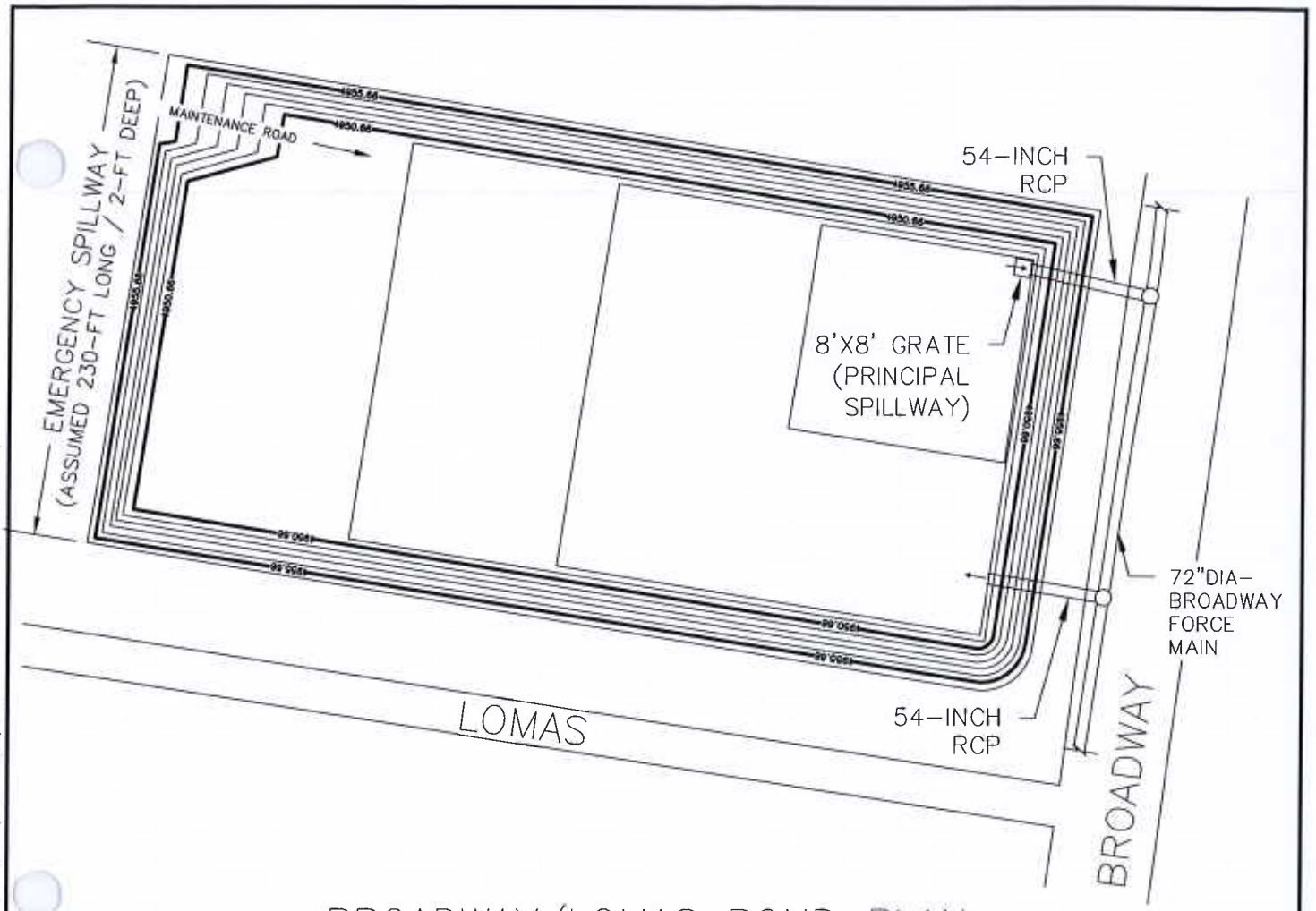
Pond has Retention ? No

Pond has surface Inflows? No
Surface rundown into pond ?: No

Pond has how many storm drain inflows? 1 (see plans and schematic attached)

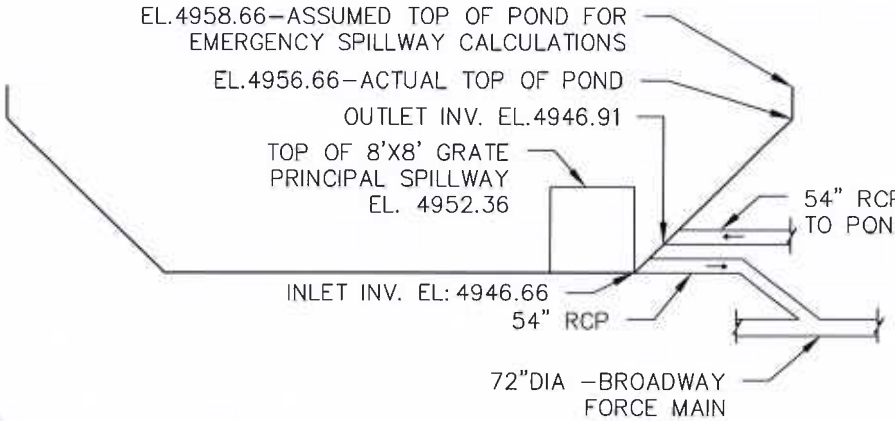
Emergency Spillway:
Actual Emergency Spillway: No (see schematic attached for dimensions)
If No SEC assumed an emergency spillway
(see schematic attached or Table of Elevation – Storage – Discharge data for assumed dimensions)

Principal Spillway:
Pipe at invert of pond: Yes (if above invert then there is retention)
Vertical Riser Pipe or Structure: Yes
See plans and photos



BROADWAY/LOMAS POND PLAN

0 40' 80Feet



BROADWAY/LOMAS POND PROFILE

NOT TO SCALE

NAVD 88 DATUM

MID-VALLEY DRAINAGE MANAGEMENT PLAN

FOR THE CITY OF ALBUQUERQUE &
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

August - 2011

SEC PROJECT NO. 110112

BROADWAY/LOMAS POND P&P SCHEMATIC FIGURE BLP

Q:\SEC---PROJECTS\2010 PROJECTS\110112 COA MID VALLEY DMP\DMP APPENDICES VOLUME 3\APPENDIX 7 SWMM EXISTING CONDITIONS\SWMM DATA\POND PLAN AND PROFILE SCHEMATICS.DWG

Smith Engineering Company

2/15/2012

TABLE BLP
BROADWAY / LOMAS POND revision 2
ELEVATION-STORAGE-DISCHARGE DATA (c)

grey box means must input data

Contour Elevation NGVD 1929	Contour Elevation NAVD 1988	Depth SWMM	Contour Area SWMM	Incremental Volume	Incremental Volume	Cumulative Volume	A Riser Discharge (1st row of orifices)	A Riser Discharge (2nd row of orifices)	A Riser Discharge (8'x8' grate)	Outfall Pipe Discharge (54" RCP)	Total Riser / Outlet Pipe Discharge	Emergency Spillway Discharge	Total Discharge (Riser, Outlet Pipe and Emergency Spillway) SWMM	Comment
			Principal Spillway Orifice Diameter (inches)				8	8		54				
			Number of Orifices				10	12		1				
(ft)	(ft)		(sq ft)	(cu ft)	(ac-ft)	(ac-ft)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	
	(d)						(a)	(a)	(b)	(a) (e)	(e)	(b)		
4944	4946.66	0	0	0	0.0000	0.0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Pond bottom. 54" SD pipe invert, invert of first row of orifices (10 total)
4945	4947.66	1.0	10089	5045	0.1158	0.1158	0.0	0.0	0.0	12.5	0.0	0.0	0.0	
4946	4948.66	2.0	37408	23749	0.5452	0.6610	16.6	0.0	0.0	45.8	16.6	0.0	16.6	
4947	4949.66	3.0	58120	47764	1.0965	1.7575	23.4	0.0	0.0	92.5	23.4	0.0	23.4	Invert of second row of orifices (12 total)
4948	4950.66	4.0	80207	69164	1.5878	3.3453	28.7	0.0	0.0	141.7	28.7	0.0	28.7	
4949	4951.66	5.0	84511	82359	1.8907	5.2360	33.1	19.9	0.0	168.7	53.0	0.0	53.0	
4949.70	4952.36	5.7	86580	59882	1.3747	6.6107	35.9	25.9	0.0	180.1	61.8	0.0	61.8	Top of 8'x8' outlet grate (Principal Spillway)
4950	4952.66	6.0	88649	26284	0.6034	7.2141	37.0	28.1	15.8	184.8	80.9	0.0	80.9	
4951	4953.66	7.0	92674	90662	2.0813	9.2954	40.6	34.4	142.3	199.6	199.6	0.0	199.6	
4952	4954.66	8.0	97128	94901	2.1786	11.4740	43.8	39.7	334.9	213.3	213.3	0.0	213.3	
4953	4955.66	9.0	101333	99231	2.2780	13.7520	46.8	44.4	575.5	226.3	226.3	0.0	226.3	
4954	4956.66	10.0	106039	103686	2.3803	16.1323	49.7	48.7	856.0	238.5	238.5	0.0	238.5	Emergency spillway invert elevation (f)
			Total Volume (ft^3) =	702725										
			Total Volume (ac-ft) =	16.13										

(a) Orfice flows were obtained from the use of Equation 4-10 and Table 4-3 from "Handbook of Hydraulics, Sixth Edition, by Brater & King, 1976."

$Q = Ca\sqrt{2gh}$ C = 0.591 g=32.2 ft/sec^2, a=area (sq ft) h=head (ft)

$a = \pi D^2/4$ (full area formula)

$$a = \frac{1}{2}r^2\left\{\left[2\cos^{-1}\left(\frac{r-d}{r}\right)\right]\frac{\pi}{180} - \sin\left[\left[2\cos^{-1}\left(\frac{r-d}{r}\right)\right]\frac{\pi}{180}\right]\right\}$$

Principal Spillway Orifice radius r in feet = 2.25

d = depth of water in the pipe in feet

(b) Emergency Spillway flows were computed based on the following data used in the weir equation

Q = CLH^ 1.5 C = discharge coeffient, L = spillway length perp. To flow in ft, H = head (ft)

C = 3 L = 230 Spillway Elev. 4956.66

L = 32 8'x8' grate

(c) Data Source : As-builts or plans as provided by the Ctiy of Albuquerque included in Appendix

(d) NGVD 1929 to NAVD 1988 Conversion Factor = 2.66

(e) The two rows of orifices with the 8 x 8 grate (A), will govern discharge until the 54-inch pipe becomes fully submerged, when sum of A's is greater than 54-inch pipe capactity then 54-inch pipe capactiy governs discharge

(partial area formula)

(f) Length assumed along top of pond and elevations extended above emergency spillway to allow for rating curve to function if flow spills over top

VERTICAL DATUM CONVERSION - NGVD 1929 to NAVD 1988

Benchmark "1-K13"

Std. Acs Brass Tablet Stamped "1-K13"
Set In Top Of A Concrete Post, Approx. 0.2-Ft Below Turf.
The Station Is Then 0.7-Ft West Of The West Curb On 8th Street,
And Is Approx. 225' South Of Stover Ave.
Elevation = 4944.03-Ft.

Questions Concerning the VERTCON process may be mailed to NGS:

Latitude: 35 04 44.0

Longitude: 106 39 27.0

NGVD Height: 4950.0 FT

Datum Shift (NAVD 88 minus NGVD 29): 2.664 feet

Converted to NAVD 88 height: 4952.664 feet

Conversion Data From:

http://www.ngs.noaa.gov/cgi-bin/VERTCON/vert_con2.prl

(1) East side

(2) East side inlet structure

(3) East side inlet structure

(4) East side outlet structure

(5) East side outlet structure (2)

(6) North side

(7) Northwest corner

(8) Southwest corner

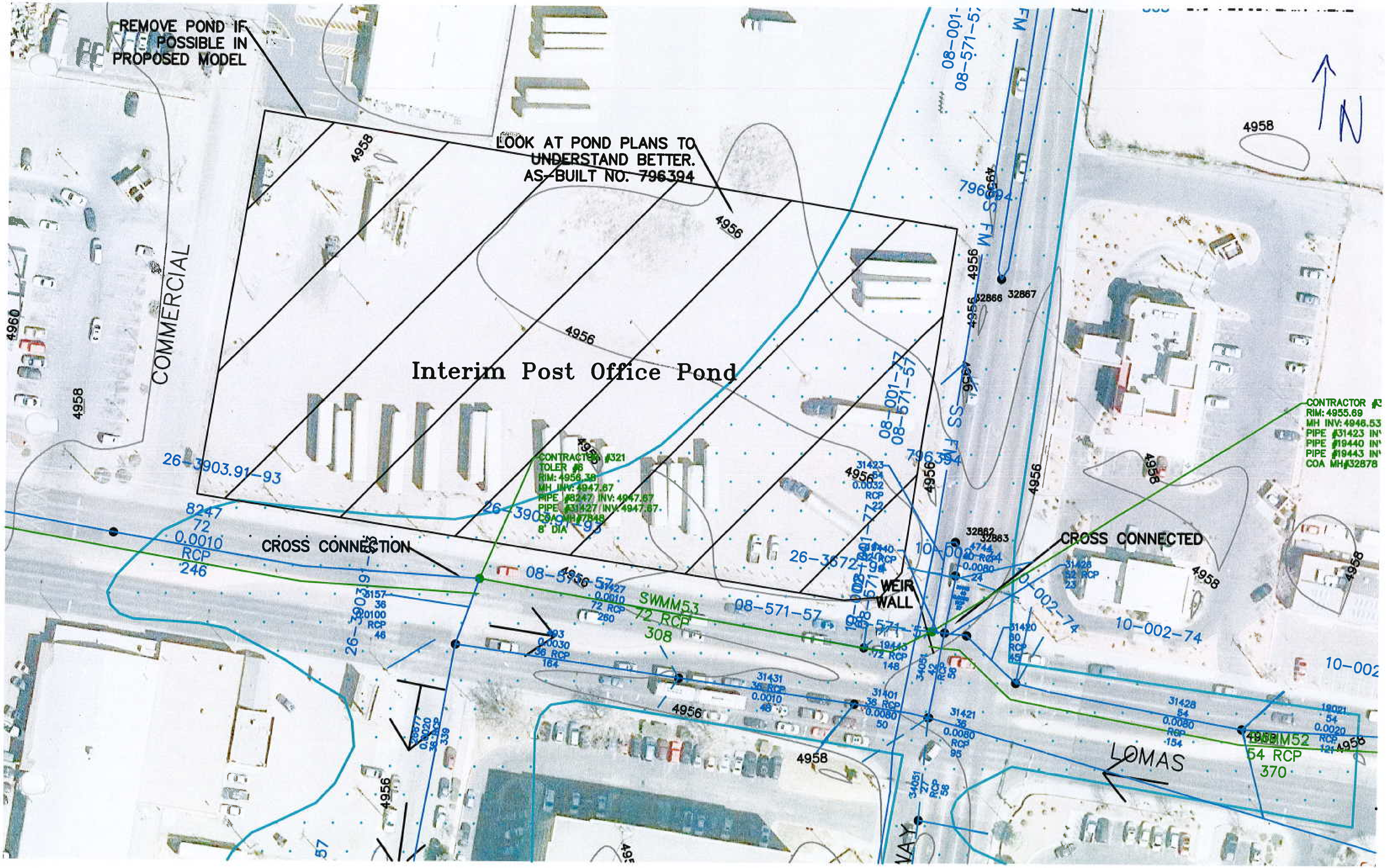
(9) West side

(10) Inlet structure

(11) Inlet structure (2)

(12) Inlet structure (3)

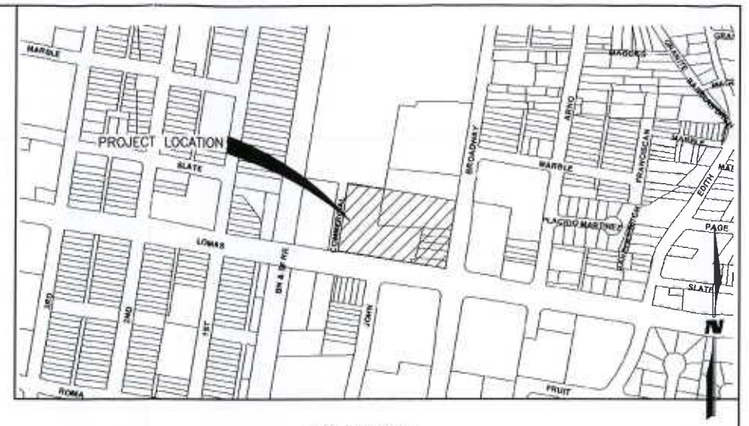
COMMERCIAL
POSSIBLE ST FLOW
LOMAS
ST. CLEB
1ST CLEB
ISLAND WAY
© 2010 Google
©2010 Google
N



REMOVE POND IF POSSIBLE IN PROPOSED MODEL
LOOK AT POND PLANS TO UNDERSTAND BETTER. AS-BUILT NO. 796394
Interim Post Office Pond
COMMERCIAL
LOMAS
N
CROSS CONNECTION
CROSS CONNECTED
WEIR WALL
CONTRACTOR #321
TOLER #6
RIM: 4956.38
MH INV: 4947.67
PIPE #8247 INV: 4947.67
PIPE #31427 INV: 4947.67
COA MH #7848
8' DIA
CONTRACTOR #3
RIM: 4955.69
MH INV: 4946.53
PIPE #31423 INV
PIPE #19440 INV
PIPE #19443 INV
COA MH #32878
SWMM53
72 RCP
308
SWMM52
54 RCP
370
26-3903.91-93
08-571-57
10-002-74
26-3672-94
08-001-77
796394
8247
72
0.0010
RCP
246
4956
4958
4960
32866
32867

CITY OF ALBUQUERQUE, NEW MEXICO
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION
CONSTRUCTION PLANS
FOR

POST OFFICE
INTERIM
DETENTION POND



VICINITY MAP
ZONE ATLAS: J-14

INDEX OF SHEETS

LOMAS/ BROADWAY POND

APPROVAL

DIRECTOR
DEPARTMENT OF MUNICIPAL DEVELOPMENT

WILSON &COMPANY
4900 LANG AVE., NE
SUITE 100
ALBUQUERQUE, NEW MEXICO 87109

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE

ENGINEERS STAMP & SIGNATURE

JESSE J. ROMERO 16205 LICENSED PROFESSIONAL ENGINEER 11-5-08

APPROVALS	ENGINEER	DATE
DRC Chairman		
Transportation		
Water/Wastewater		
Hydrology	J Curtis	11-6-08
C.I.P.		
Const. Coord.		
NMUI		
AMAFCA		

APPROVED FOR CONSTRUCTION

City Engineer Date

City Project No.
COA 7963.94

SHEET NO.
G-001

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GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE #7, INCLUDING AMENDMENT NO. 1, AND WILL BE REFERRED TO HEREIN AS STANDARD SPECIFICATIONS.

2. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR EASEMENTS MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY.

3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

4. CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

5. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.

6. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.

7. 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. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS 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. REFER TO STANDARD SPECIFICATIONS SECTION 4.4.

8. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE DMD, CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS.

9. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

10. CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES CONSTRUCTED AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.

11. AT HIS OWN EXPENSE, CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, CURB AND GUTTER, HANDICAP RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE, PER STANDARD SPECIFICATIONS.

12. ALL STREET STRIPING, ALTERED OR DESTROYED, SHALL BE REPLACED WITH THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO SAME LOCATION AS EXISTING, OR AS INDICATED BY THIS PLAN SET.

13. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDE AND MAINTAIN ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY.

15. CONTRACTOR SHALL COORDINATE WITH WATER AUTHORITY, WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS PRIOR TO ANY WORK THAT MAY AFFECT EXISTING WATER AUTHORITY PUBLIC WATER OR SEWER UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF. EXISTING WATER AUTHORITY VALVES TO BE OPERATED BY WATER AUTHORITY PERSONNEL ONLY.

16. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO DMD, CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE.

17. CONTRACTOR SHALL SECURE TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING CONSTRUCTION.

18. PERMIT REQUESTS MAY BE DENIED OR DELAYED DUE TO CONFLICTS WITH OTHER PROJECTS IN THE AREA.

19. CONTRACTOR SHALL DETERMINE IN ADVANCE OF HIS CONSTRUCTION IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF CONTRACTOR.

20. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND/OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

21. EXISTING UTILITY LINE LOCATION ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

22. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES.

23. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

24. ALL FINAL BACKFILL FOR TRENCHES WITHIN THE COA RIGHT-OF-WAY SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2465.

25. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.

26. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

27. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE PROJECT MANAGER. THERE WILL BE NO DIRECT COMPENSATION FOR THIS WORK.

28. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A MANNER WHICH WILL MINIMIZE INTERFERENCE WITH LOCAL TRAFFIC.

29. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR (24) HOURS OF CONSTRUCTION.

30. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.

31. WHEN ABUTTING EXISTING PAVEMENT TO NEW, SAWCUT EXISTING PAVEMENT TO A STRAIGHT EDGE AND AT A RIGHT ANGLE, OR AS APPROVED BY THE FIELD ENGINEER. REMOVAL OF BROKEN OR CRACKED PAVEMENT WILL ALSO BE REQUIRED.

32. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT.

33. THE CONTRACTOR SHALL NOTIFY THE ALBUQUERQUE TRAFFIC ENGINEERING DIVISION THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK REQUIRED REGARDING ALL EXISTING REGULATORY SIGNS AND SIGNALS THAT NEED TO BE REMOVED. RELOCATED, OR REINSTALLED. CALL 857-8680. REFER TO SECTION 18.4.4 OF THE SPECIFICATIONS.

34. THE CONTRACTOR WILL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR R.O.W. TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS OR DESIGNATED TRAFFIC LANES.

35. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELING PEDESTRIAN TRAFFIC AROUND ALL WORK AREAS THROUGHOUT THE CONSTRUCTION PERIOD.

36. A DISPOSAL SITE, COMPLYING WITH ALL CITY ORDINANCES, SHALL BE OBTAINED BY THE CONTRACTOR FOR THE DISPOSAL OF ALL EXCESS EXCAVATION MATERIAL, ASPHALTIC PAVEMENT (EXCEPT MILLED BITUMINOUS CONCRETE PAVEMENT) AND OTHER WASTE MATERIALS. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE OF THE LOCATION OF THE DISPOSAL SITE PRIOR TO THE REMOVAL AND ACTUAL DISPOSAL OF THE MATERIAL. ALL COSTS IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.

37. CONTRACTOR TO CAREFULLY FIELD REVIEW SITE TO ASSESS EXTENT OF TRASH & DEMOLITION REMOVAL. TRASH IS DEFINED AS DEMOLITION TREES, SHRUBS, VEGETATION, ASPHALT, CONCRETE, ABANDONED WET & DRY UTILITIES, MISCELLANEOUS LANDSCAPE, AND CONCRETE CURB & GUTTER TRASH REMOVAL SHALL BE INCLUDED IN BID ITEM "CLEARING & GRUBBING".

38. ALL VALLEY GUTTERS ARE 6' WIDE UNLESS OTHERWISE NOTED.

39. UNLESS OTHERWISE SHOWN, ALL DIMENSIONS ARE TO FACE OF CURB, INCLUDING RADII OF CURB RETURNS.

40. ALL FINISHED GRADES AND PROFILES SHOWN ARE FLOWLINE GRADES, UNLESS OTHERWISE NOTED.

41. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED PER STD DWG 2415 BY THE CONTRACTOR AT HIS EXPENSE.

42. WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE TO NEAREST JOINT.

43. WHEN ABUTTING NEW PAVEMENT TO EXISTING PAVEMENT, SAW CUT EXISTING PAVEMENT IN A STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. PRIOR TO LAYING NEW PAVEMENT, THE EXPOSED EXISTING ASPHALT EDGE SHALL BE CLEAN AND TACK-COATED.

44. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED AT ALL CURB RETURNS CONSTRUCTED WITH THIS PROJECT AT THE LOCATIONS SHOWN ON PLANS, IN ACCORDANCE WITH THE CITY STANDARD DETAILS.

45. ALL WHEELCHAIR RAMP APPROACH SLOPES SHOWN ON STD DWG 2441 SHALL BE INCREASED IN LENGTH TO MAINTAIN 12:1 MAX SLOPE WHEN GRADE IS RISING FROM RAMP. SEE TABLE BELOW.

46. MANHOLE RIM ELEVATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND WILL VARY WITH THE FINISHED PAVEMENT ELEVATIONS.

47. CONTRACTOR TO VERIFY ALL EXISTING FIRE HYDRANT FLANGES, PADS, VALVE BOXES, MANHOLE RIMS AND TOP OF PIPE ELEVATIONS IN THE FIELD. ELEVATIONS SHALL BE ADJUSTED TO COMPLY WITH THE REQUIREMENTS OF STANDARD CITY DETAILS.

48. ALL WATER VALVE BOXES AND SEWER MANHOLES IN THE CONSTRUCTION AREA ARE TO BE ADJUSTED TO FINISH GRADE UNDER THIS CONTRACT, AND WILL BE PAID FOR AT CONTRACT UNIT PRICES.

49. THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF WHEN FIRE HYDRANTS WILL BE TAKEN OUT OF SERVICE AND RETURNED TO SERVICE.

50. WHERE PULL BOXES ABUT BACK OF CURB OR ARE LOCATED IN A CONCRETE PAVED AREA, PROVIDE 3/4" EXPANSION MATERIAL AROUND THE PULL BOX. ALL PULL BOXES TO BE FLUSH WITH SURFACE OF CONCRETE.

51. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AS WELL AS LOCAL REGULATIONS.

52. THE CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY ENTITIES AS NEEDED FOR RELOCATION AND INSTALLATION OF PRIVATE UTILITIES. ENGINEER HAS NOTIFIED THE PRIVATE UTILITIES OF THIS PROJECT.

53. TEMPORARY EROSION FENCING (OR PERMANENT WALLS OR FENCING) SHALL BE USED TO PROTECT EXISTING RESIDENTIAL PROPERTY, STREETS LANDSCAPING AND THE DRAINAGE SYSTEMS FROM THE DEPOSITION OF ERODED MATERIAL.

54. CONSTRUCTION AREA SHALL BE CONTROLLED TO PREVENT TRESPASS USE BY 4WD'S, ORV'S AND MOTORCYCLES TO MINIMIZE NOISE, DUST, DESTRUCTION OF VEGETATION, WIND AND WATER EROSION.

55. CONTRACTOR SHALL LOCATE EXISITING IRRIGATION LINE(S) AND CUT & CAP SERVICE 5'-0" OUTSIDE OF CONSTRUCTION LIMITS. COST IS INCIDENTAL TO BID ITEM "CLEARING AND GRUBBING".

56. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT ENGINEER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 14 CALENDAR DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL PAYMENT. AS-BUILTS SHALL BE CERTIFIED, SIGNED AND DATED BY THE CONTRACTOR FOR COMPLETENESS AND ACCURACY OF INFORMATION.

UTILITY CONTACTS

COMPANY	PHONE	MOBILE	CONTACT
ABCWUA	768-2729		NANCY MUSINSKI
PNM - ELECTRIC	241-3398		ART CHAVEZ
PNM - GAS	241-7771		JOE DUNLOP
QWEST	245-6374		ROSA KNIFFIN
COMCAST	761-6221		ROBERT MARTINEZ
CITY LINK (FIBER OPTIC)	918-7030		JOHN BROWN

SURVEY INFORMATION
BENCH MARKS
-APPROX. 225' SOUTH OF STOVER
AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS. BRASS TABLET STAMPED "1-K13"
ELEVATION = 4944.03 FT.
DATUM= 1929 NGVD

FIELD NOTES

NO	BY	DATE

AS BUILT INFORMATION
CONTRACTOR DATE
WORK INSPECTED BY DATE
ACCEPTANCE BY DATE
FIELD LOCATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY
NO.

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DATE: 3 SEPT. 2008	
		DATE: 3 SEPT. 2008	
		DATE: 3 SEPT. 2008	

DESIGNED BY: TJA
DRAWN BY: JL
CHECKED BY: TJA

WILSON & COMPANY
4900 LANG AVE., NE
SUITE 100
ALBUQUERQUE, NEW MEXICO 87109

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
POST OFFICE DETENTION POND

TITLE: GENERAL NOTES

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. 7963.94
Zone Map No. J-14
Sheet G-002 Of

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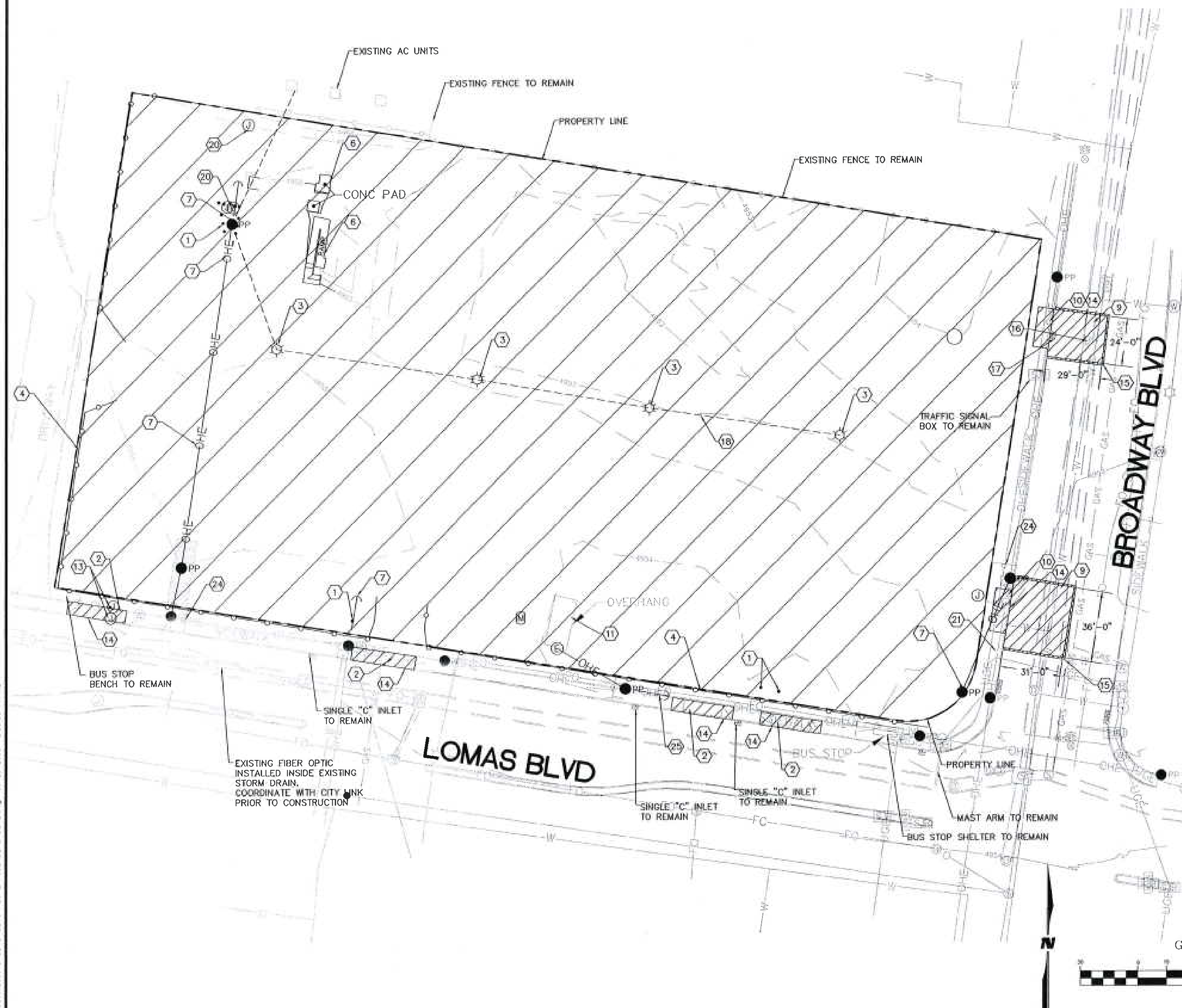

A1 DEMOLITION PLAN
SCALE: 1"=30'

LEGEND

- CONTROL POINT
- POWER POLE
- GUY WIRE
- ELECTRIC METER
- LIGHT POLE
- ELECTRIC JUNCTION BOX
- SIGNAL LIGHT JUNCTION BOX
- TRAFFIC LIGHT POLE
- TRAFFIC SIGNAL w/MAST ARM
- MONITER WELL
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- VAULT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STORM DRAIN MANHOLE
- CURB INLET
- TRAFFIC SIGN
- BOLLARD
- TELEPHONE MANHOLE
- UNDERGROUND GASLINE
- UGE — UNDERGROUND ELECTRIC
- OHE — OVERHEAD ELECTRIC
- FO — FIBER OPTIC LINE
- W — WATER LINE
- CHAINLINK FENCE
- CURB AND GUTTER
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- AREA OF DEMOLITION
- APPROXIMATE LINEAR REMOVAL LIMITS

KEYED NOTES

1. REMOVE AND DISPOSE OF EXISTING BOLLARDS.
2. REMOVE AND DISPOSE OF EXISTING DRIVEPAD.
3. REMOVE AND DISPOSE EXISTING LIGHT STRUCTURES.
4. REMOVE AND DISPOSE OF EXISTING CHAINLINK FENCE.
5. NOT USED
6. REMOVE AND DISPOSE OF EXISTING CONCRETE PAD AND RAMP.
7. OVERHEAD ELECTRIC LINES AND POWER POLES TO BE REMOVED BY OTHERS.
8. NOT USED
9. REMOVE AND REPLACE EXISTING ASPHALT.
10. REMOVE AND REPLACE EXISTING SIDEWALK.
11. EXISTING BILLBOARD TO REMAIN. PROTECT DURING CONSTRUCTION.
12. NOT USED
13. REMOVE AND REPLACE EXISTING CONTROL FOR PERMANENT TRAFFIC COUNTER.
14. REMOVE AND REPLACE EXISTING STANDARD CURB AND GUTTER.
15. SAWCUT, NEATLINE, REMOVE AND DISPOSE 12" WIDE STRIP OF ASPHALT.
16. REMOVE 4'-0 DIA. STORM DRAIN MANHOLE
17. REMOVE AND REPLACE TYPE "C" SINGLE INLET, WITH TYPE "A" SINGLE INLET
18. REMOVE AND DISPOSE OF EXISTING UNDERGROUND CONDUIT AND WIRE
19. REMOVE AND REPLACE EXISTING WATER VALVE BOX
20. REMOVE AND DISPOSE EXISTING CIRCUIT BREAKER
21. REMOVE AND REPLACE EXISTING PULL BOX
22. REMOVE AND REPLACE EXISTING LOOP DETECTORS
23. NOT USED
24. REMOVE AND REPLACE EXISTING STREET/BUS SIGNS
25. RESET GUY WIRE

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY: TJA DATE: 3 SEPT. 2008
DRAWN BY: JLL DATE: 3 SEPT. 2008
CHECKED BY: TJA DATE: 3 SEPT. 2008

WILSON & COMPANY
4900 LANG AVE. NE SUITE 100
ALBUQUERQUE, NEW MEXICO 87109

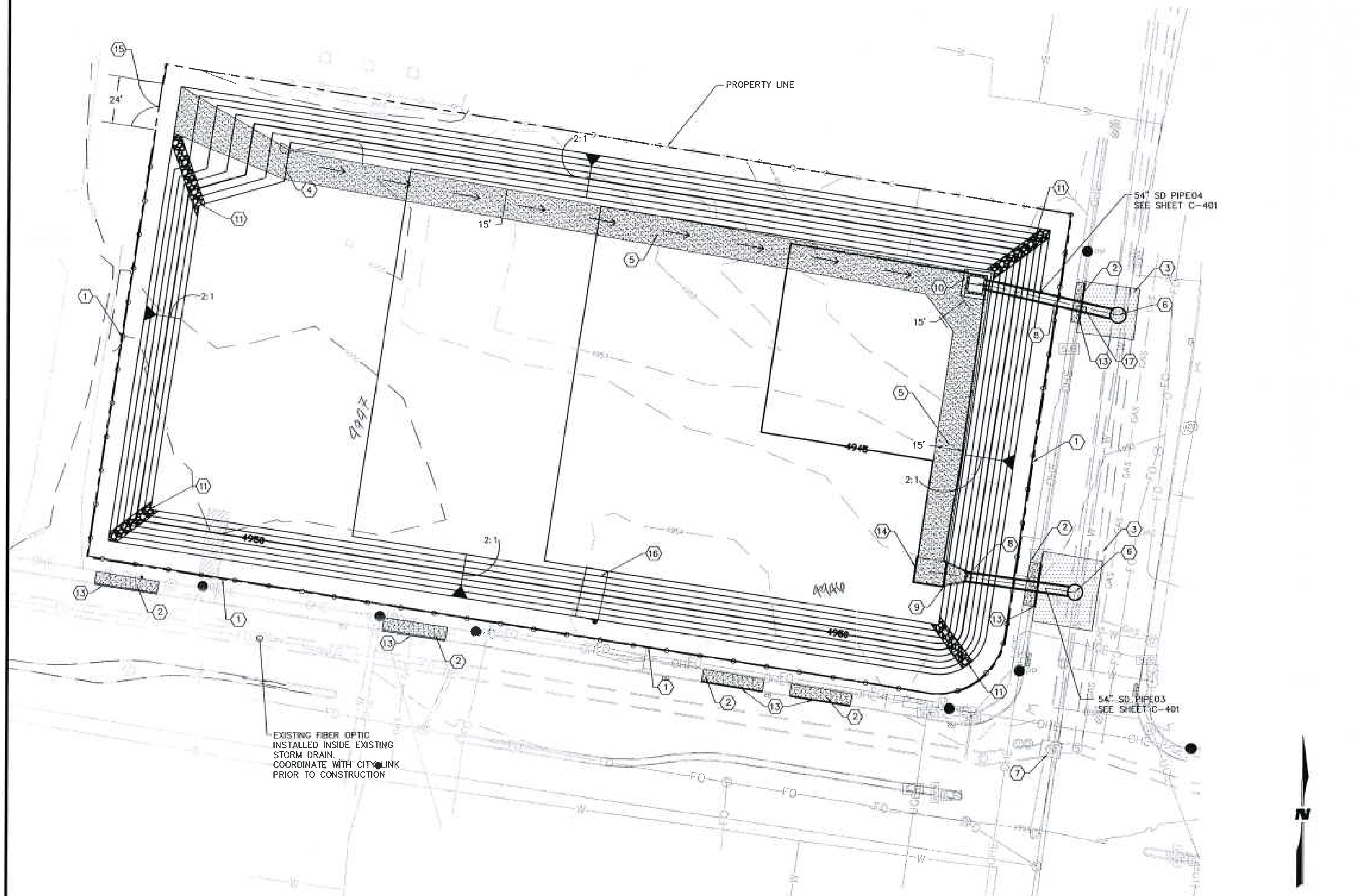
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: POST OFFICE DETENTION POND

DEMOLITION PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
	Last Design Update		

City Project No.	Zone Map No.	Sheet	Of
7963.94	J-14	C-101	



GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

A1 GRADING & DRAINAGE PLAN

SCALE: 1"=30'

KEYED NOTES

1. INSTALL 6'-0" H CHAINLINK FENCE PER DETAIL COA STD DWG 2252
2. INSTALL PCC SIDEWALK PER DETAIL SHEET C-501
3. INSTALL NEW ASPHALT PAVEMENT PER DETAIL SHEET C-501
4. INSTALL NEW MAINTENANCE RAMP PER DETAIL SHEET C-501
5. INSTALL 15'-0" WIDE LOW FLOW CHANNEL PER DETAIL SHEET C-501
6. INSTALL NEW 8'-0" DIA. SD MH PER COA STD DWG 2102
7. INSTALL 12"X7'X1/2" STEEL PLATES PER DETAIL SHEET C-501
8. INSTALL NEW 54" DIA. SD PIPE
9. INSTALL NEW OUTFALL STRUCTURE PER DETAIL SHEET C-503
10. INSTALL NEW POND RISER PER DETAIL SHEET C-504
11. INSTALL RIP RAP RUNDOWN PER DETAIL SHEET C-501
12. NOT USED
13. INSTALL NEW STANDARD CURB AND GUTTER PER COA STD DWG 2415A
14. INSTALL NEW HEADER CURB PER DETAIL SHEET C-501
15. INSTALL NEW 24'-0" WIDE CHAINLINK GATE
16. EXISTING BILLBOARD TO BE PROTECTED DURING CONSTRUCTION.
17. INSTALL 1-SINGLE TYPE "A" INLET PER COA STD DWG 2201

LEGEND

CONTROL POINT
POWER POLE
GUY WIRE
ELECTRIC METER
LIGHT POLE
ELECTRIC JUNCTION BOX
SIGNAL LIGHT JUNCTION BOX
TRAFFIC LIGHT POLE
TRAFFIC SIGNAL w/MAST ARM
MONITOR WELL
WATER VALVE
WATER METER
FIRE HYDRANT
VAULT
SANITARY SEWER MANHOLE
SANITARY SEWER CLEANOUT
STORM DRAIN MANHOLE
CURB INLET
TRAFFIC SIGN
TELEPHONE MANHOLE
UNDERGROUND GASLINE
UNDERGROUND ELECTRIC
OVERHEAD ELECTRIC
FIBER OPTIC LINE
WATER LINE
CHAINLINK FENCE
CURB AND GUTTER
INDEX CONTOUR
INTERMEDIATE CONTOUR
PROPOSED INDEX CONTOUR
PROPOSED INTERMEDIATE CONTOUR
PROPOSED ASPHALT
PROPOSED CONCRETE
PROPOSED RIPRAP
PROPOSED CHAINLINK FENCE
PROPOSED CURB & GUTTER
PROPERTY LINE

AS BUILT INFORMATION

CONTRACTOR | DATE
WORK STAKED BY | DATE
INSPECTOR'S ACCEPTANCE BY | DATE
FIELD VERIFICATION BY | DATE
DRAWINGS CORRECTED BY | DATE

MICRO-FILM INFORMATION

RECORDED BY | DATE
NO.

SURVEY INFORMATION

FIELD NOTES
NO. | BY | DATE

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DESIGN

DESIGNED BY: TJA | DATE: 3 SEPT. 2008
DRAWN BY: JLL | DATE: 3 SEPT. 2008
CHECKED BY: TJA | DATE: 3 SEPT. 2008

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ALBUQUERQUE, NEW MEXICO 87109

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: **POST OFFICE DETENTION POND**

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet Of
7963.94	J-14	C-102

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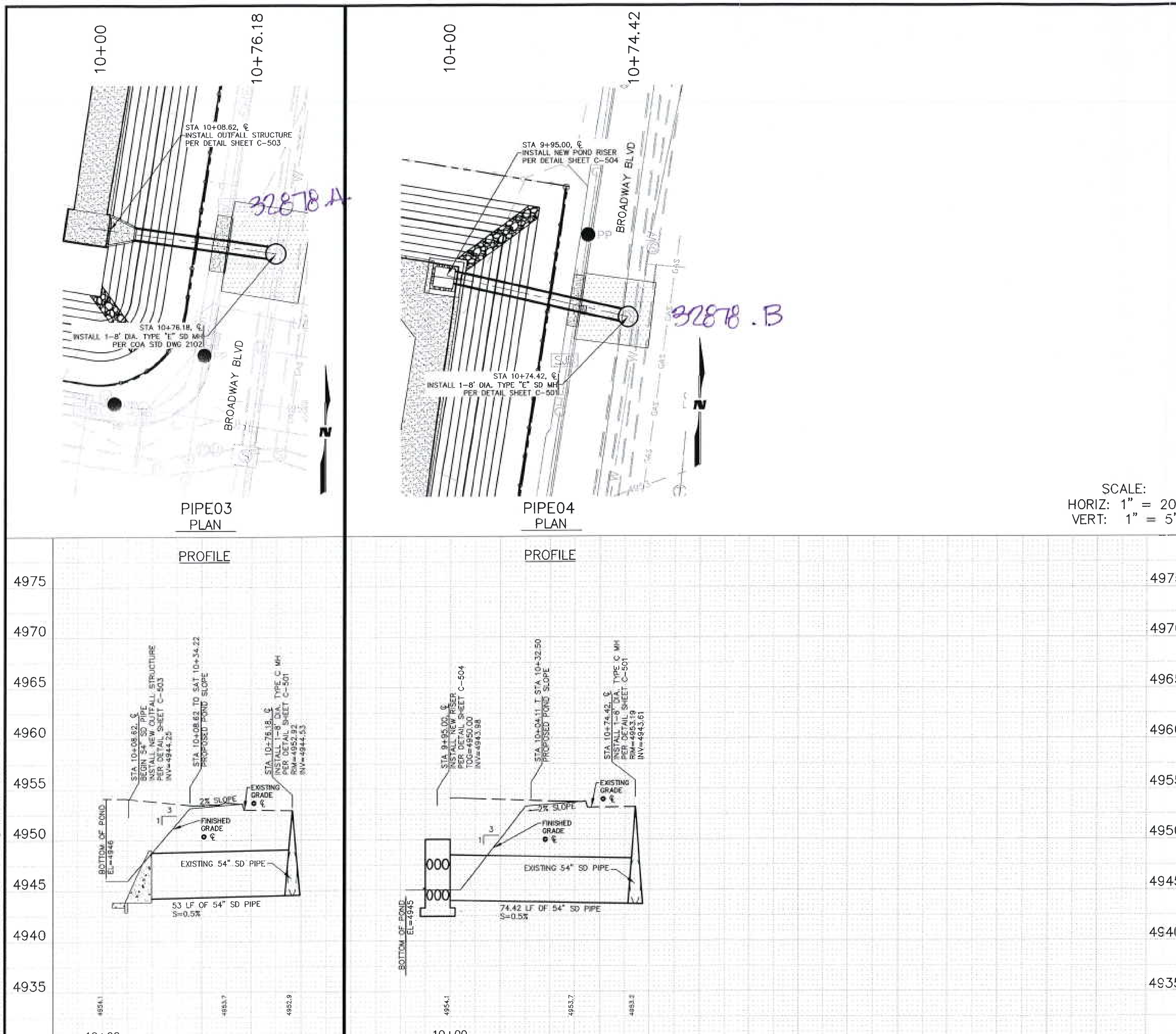

LEGEND

CONTROL POINT
POWER POLE
GUY WIRE
ELECTRIC METER
LIGHT POLE
ELECTRIC JUNCTION BOX
SIGNAL LIGHT JUNCTION BOX
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TRAFFIC SIGNAL w/MAST ARM
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STORM DRAIN MANHOLE
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UNDERGROUND GASLINE
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OVERHEAD ELECTRIC
FIBER OPTIC LINE
WATER LINE
CHAINLINK FENCE
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INDEX CONTOUR
INTERMEDIATE CONTOUR
PROPOSED INDEX CONTOUR
PROPOSED INTERMEDIATE CONTOUR
PROPOSED ASPHALT
PROPOSED CONCRETE
PROPOSED RIPRAP
PROPOSED CHAINLINK FENCE
PROPOSED CURB & GUTTER
PROPERTY LINE

SURVEY INFORMATION — FIELD NOTES — NO. — BY — DATE

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AS BUILT INFORMATION: CONTRACTOR — DATE; WORK STARTED BY — DATE; INSPECTOR'S ACCEPTANCE BY — DATE; FIELD VERIFICATION BY — DATE; DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION: RECORDED BY — DATE; NO.

ENGINEER'S SEAL

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DESIGN
DESIGNED BY: TJA — DATE:3 SEPT. 2008
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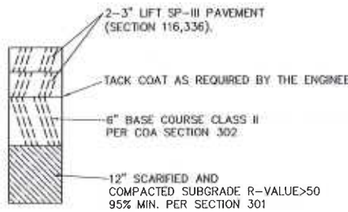
4900 LANG AVE., NE
SUITE 100
ALBUQUERQUE, NEW MEXICO 87109

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: POST OFFICE DETENTION POND
PIPE PLAN AND PROFILES

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
7963.94	J-14	C-401	



PAVEMENT SECTION
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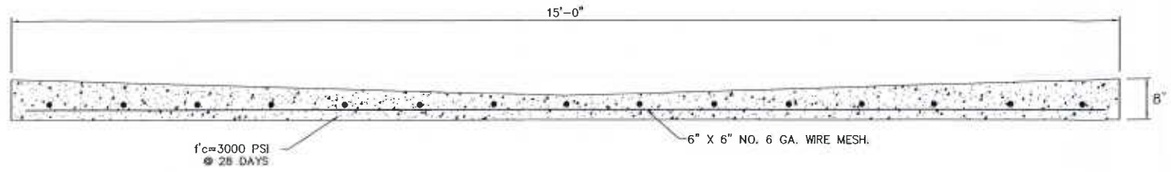
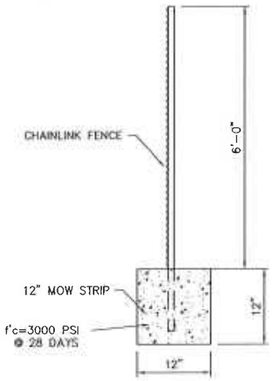
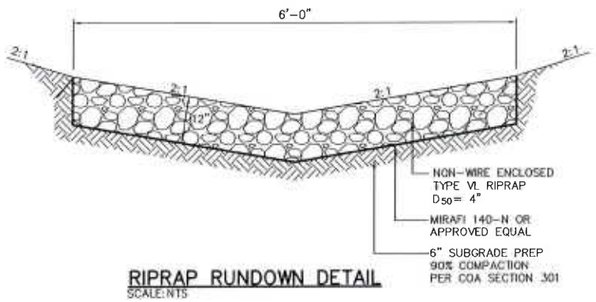


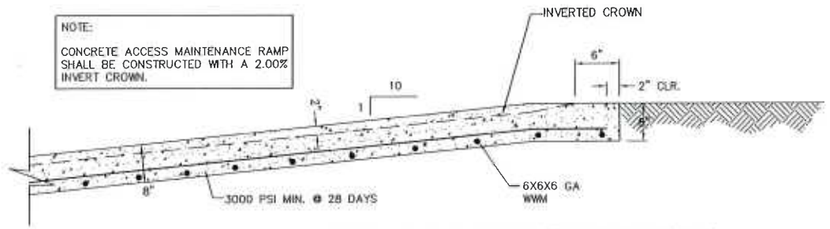
15'-0" LOW FLOW CHANNEL DETAIL
SCALE: 1"=1'



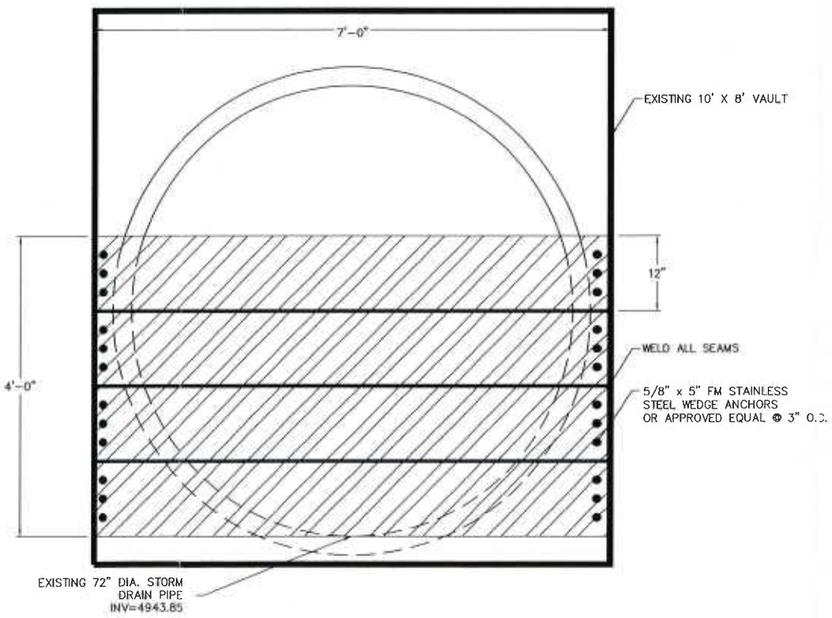
6'-0" HIGH CHAINLINK FENCE W/ MOW STRIP
SCALE: NTS



RIPRAP RUNDOWN DETAIL
SCALE: NTS



CONCRETE ACCESS MAINTENANCE RAMP DETAIL
SCALE: 1" = 1'



12" X 7' X 1/2" STEEL PLATES DETAIL
SCALE: NTS

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STARTED ON — DATE
WORK FINISHED ON — DATE
FIELD VERIFICATION BY — DATE
AS-BUILTS DRAWINGS CORRECTED BY — DATE

BENCH MARKS

APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT STD. ACS BRASS TABLET STAMPED "1-K13"
ELEVATION = 4944.03 FT.
DATUM= 1929 NGVD

MICRO-FILM INFORMATION
RECORDED BY
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

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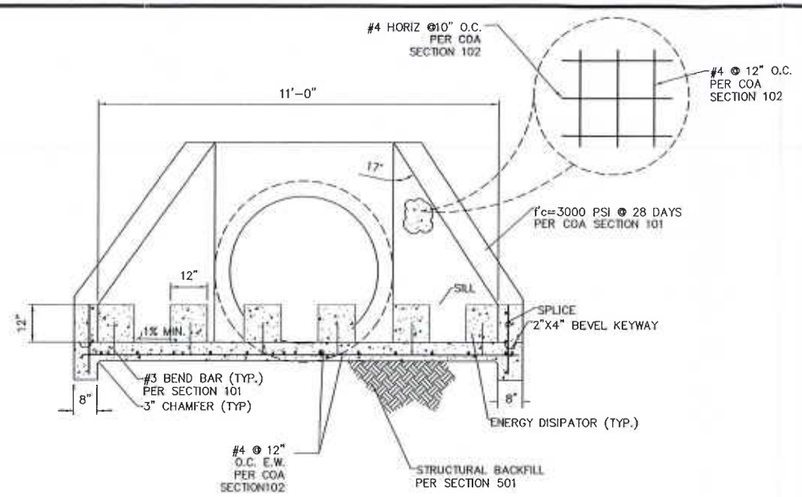
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

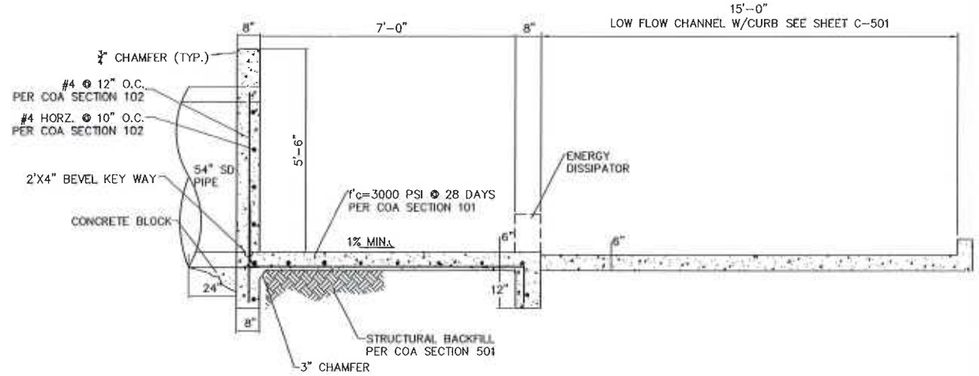
TITLE: POST OFFICE DETENTION POND
DETAIL SHEET

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7963.94 | Zone Map No. J-14 | Sheet C-501 Of

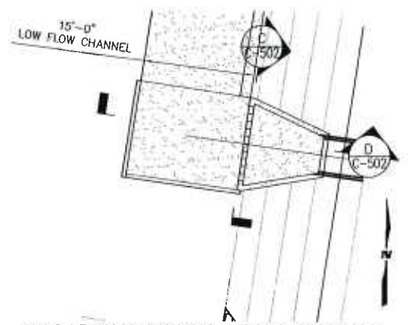


SECTION-C BROADWAY STORM DRAIN OUTFALL DETAIL
SCALE: NTS



SECTION-D BROADWAY STORM DRAIN OUTFALL DETAIL
SCALE: NTS

* SKEWED DIMENSION MEASURED ALONG CENTERLINE



BROADWAY STORM DRAIN OUTFALL
SCALE: NTS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

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CONTRACTOR — DATE
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INSPECTED BY — DATE
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VERIFICATION BY — DATE
DRAWINGS BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
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ALBUQUERQUE, NEW MEXICO 87109

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: POST OFFICE DETENTION POND
OUTFALL DETAIL

Design Review Committee | City Engineer Approval | Last Design Update

City Project No. 7963.94 | Zone Map No. J-14 | Sheet C-502 Of

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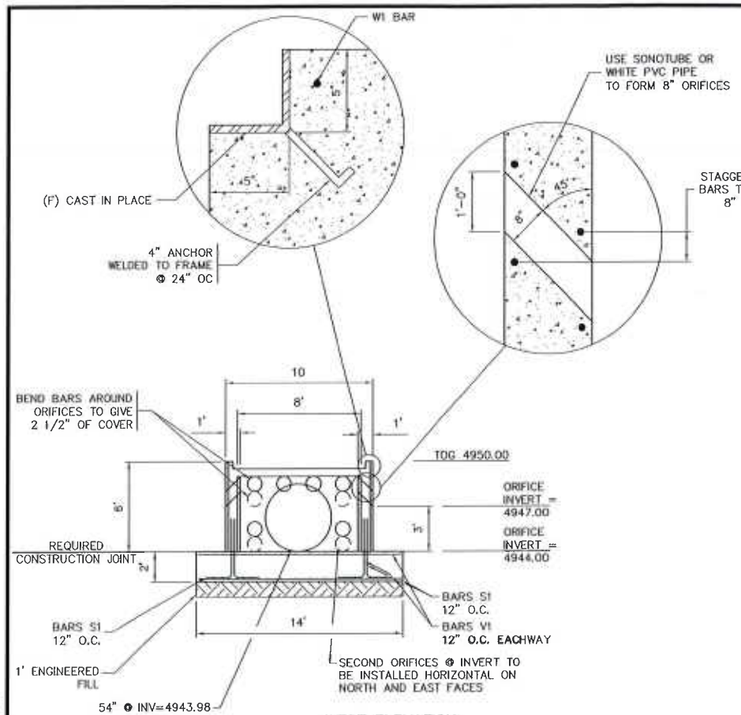


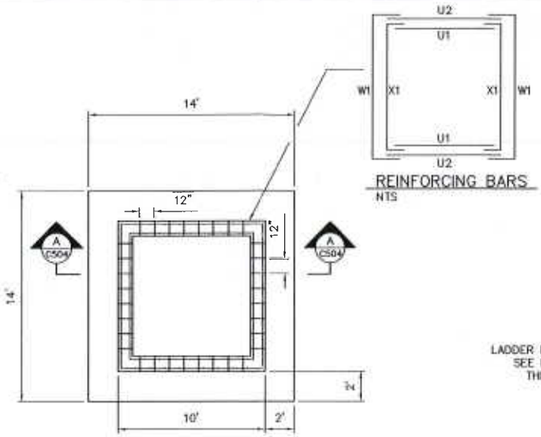
WEST ELEVATION

CROSS-SECTION A-A RISER DETAIL

1" = 5'

NOTE

1. FOR FIRST & SECOND ROWS BUILD ORIFICES ON NORTH, EAST, AND SOUTH FACE ONLY.

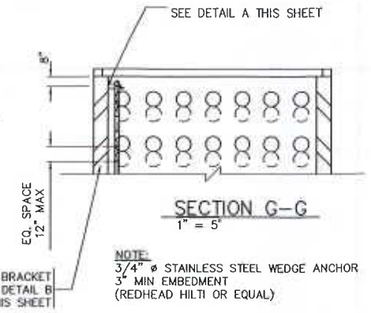


REINFORCING BARS

NTS

RISER PLAN VIEW

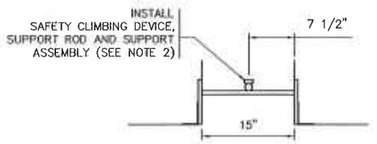
1" = 5'



SECTION G-G

1" = 5'

NOTE:
3/4" ø STAINLESS STEEL WEDGE ANCHOR
3" MIN EMBEDMENT
(REDHEAD HILTI OR EQUAL)

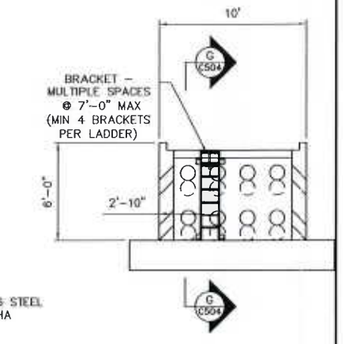


SAFETY LADDER NOTES:

1. SAFETY LADDER SHALL BE GALVANIZED A-36 STEEL AND SHALL MEET ALL REQUIREMENTS OF OSHA REGARDLESS OF DETAILS SHOWN
2. SAFETY CLIMBING DEVICE AND ASSEMBLY SHALL BE "SAF-T-CLIMB" FALL PREVENTION SYSTEM BY
   NORTH CONSUMER PRODUCTS
   2664B SATURN STREET
   BREA, CALIFORNIA 92621
   (714) 524-1655
   ATTACHMENT DETAILS SHALL MEET OSHA REQUIREMENTS REGARDLESS OF DETAILS SHOWN

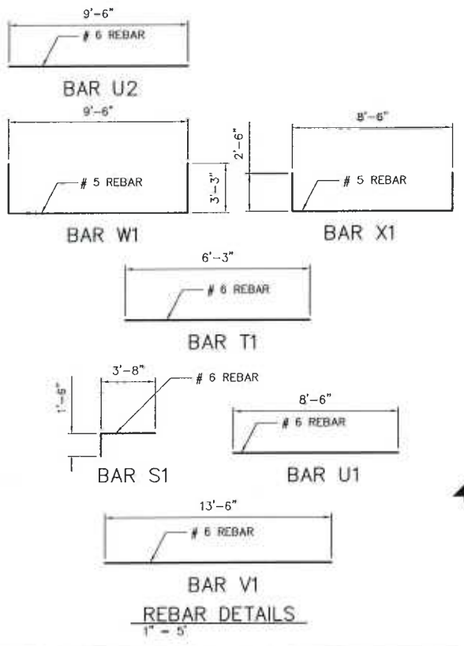
DETAIL "A" SAFETY LADDER CLIMBING DEVICE

1" = 1'



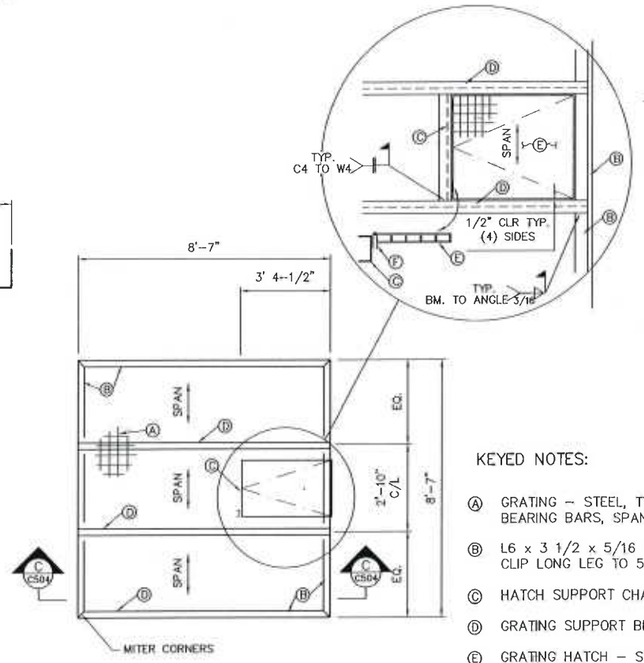
RISER LADDER ELEVATION

1" = 5'



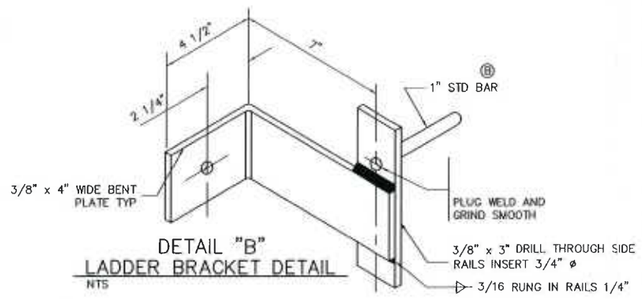
REBAR DETAILS

1" = 5'



RISER GRATE-PLAN

NTS



DETAIL "B" LADDER BRACKET DETAIL

NTS

KEYED NOTES:

Ⓐ GRATING - STEEL, TYPE W-38-4 W/ 1 1/2" x 1/16" BEARING BARS, SPAN AS SHOWN

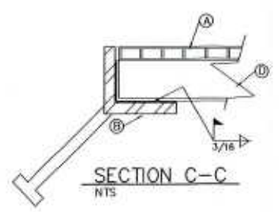
Ⓑ L6 x 3 1/2 x 5/16 LLV EDGE BEARING ANGLE, CLIP LONG LEG TO 5 1/2" LENGTH

Ⓒ HATCH SUPPORT CHANNEL - C4 x 5.4

Ⓓ GRATING SUPPORT BEAM - W4 x 13

Ⓔ GRATING HATCH - STEEL, TYPE W-38-4 W/ 1 1/2" x 3/16" BEARING BARS , SPANA S SHOWN, W/ BANDING AT ENDS

Ⓕ HEAVY DUTY WELDABLE BARREL HINGE



SECTION C-C

NTS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

- APPROX. 225' SOUTH OF STOVER AVE. OF THE WEST CURB ON EIGHTH STREET, AND IS BELOW TURF. THE STATION IS THEN 0.7 FT WEST. SET IN TOP OF A CONCRETE POST, APPROX. 0.2 FT. STD. ACS BRASS TABLET STAMPED "1-K13" ELEVATION = 4944.03 FT. DATUM= 1929 NGVD

AS BUILT INFORMATION

CONTRACTOR — DATE
SURVEY BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
COMMENTS BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY: TJA	DATE: 3 SEPT. 2008
		DRAWN BY: JLL	DATE: 3 SEPT. 2008
		CHECKED BY: TJA	DATE: 3 SEPT. 2008

WILSON & COMPANY
4900 LANG AVE., NE
SUITE 100
ALBUQUERQUE, NEW MEXICO 87109

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: POST OFFICE DETENTION POND
POND RISER DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	mo./Day/Yr.	mo./Day/Yr.

City Project No. 7963.94 | Zone Map No. J-14 | Sheet C-503 of

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