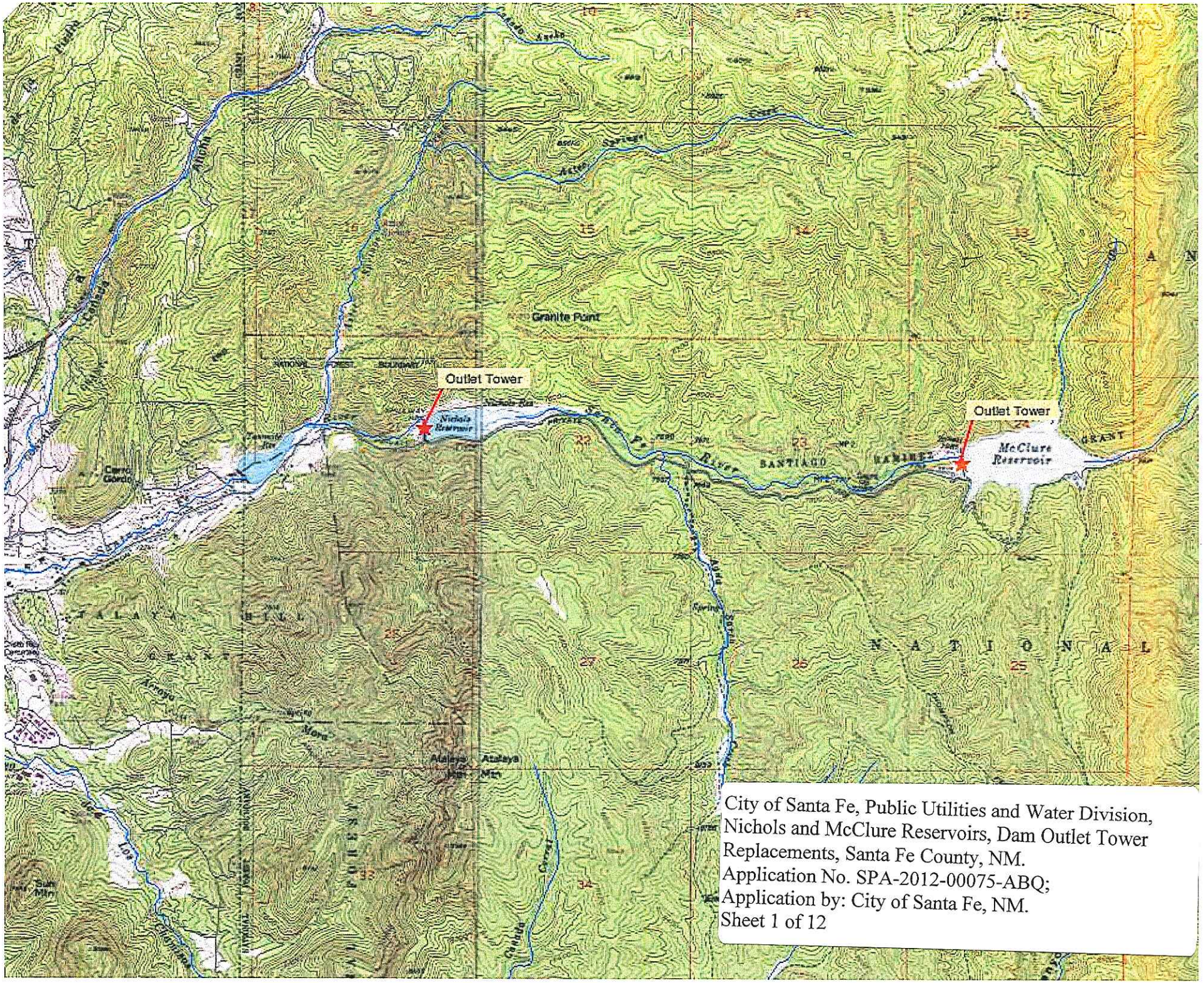

City of Santa Fe, Public Utilities and Water Division, Nichols and McClure Reservoirs, Dam Outlet Tower Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
Application by: City of Santa Fe, NM.
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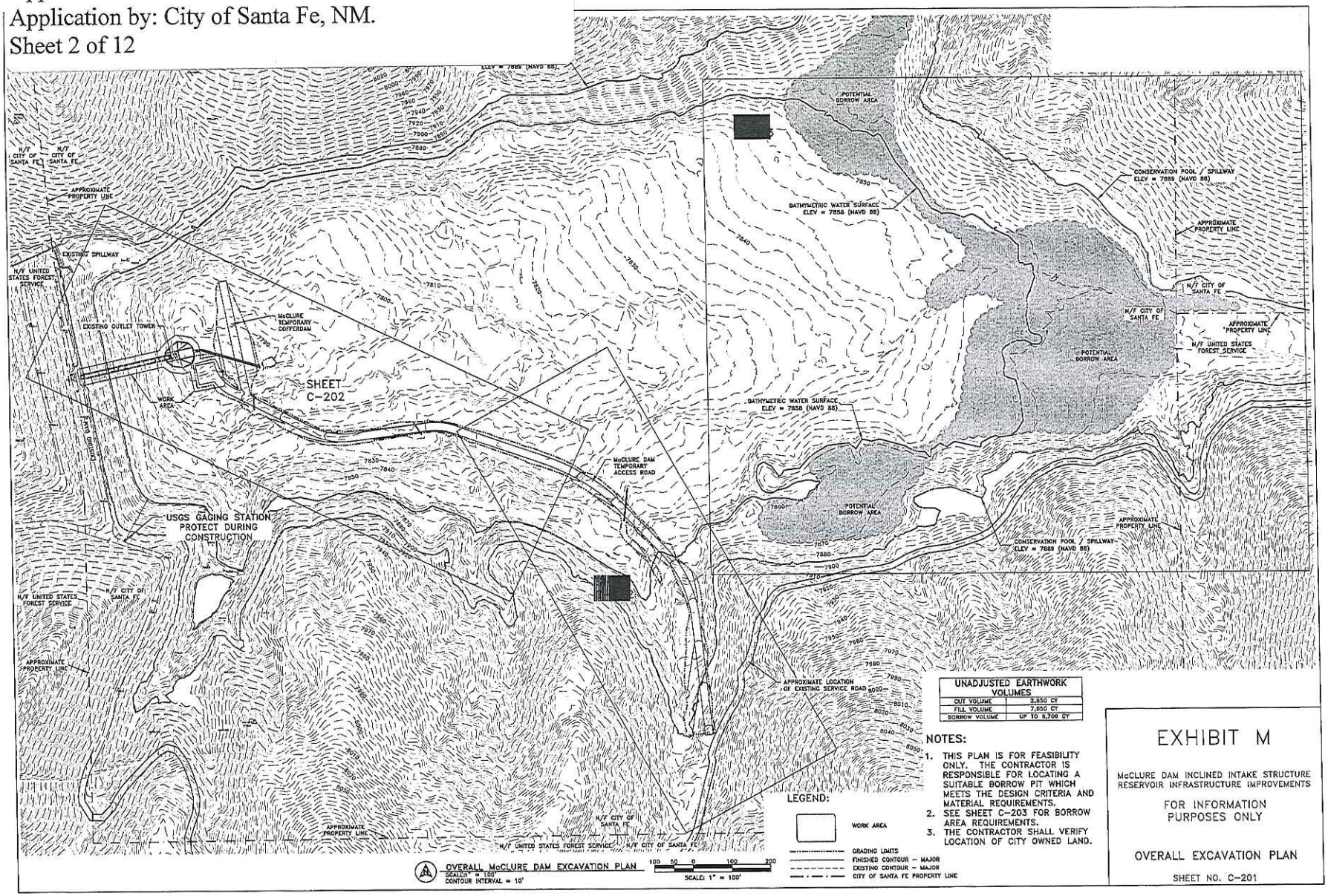
City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
Application by: City of Santa Fe, NM.
Sheet 2 of 12



OVERALL McCLURE DAM EXCAVATION PLAN
SCALE: 1" = 100'
CONTOUR INTERVAL = 10'

UNADJUSTED EARTHWORK VOLUMES	
CUT VOLUME	2,850 CY
FILL VOLUME	7,850 CY
BORROW VOLUME	UP TO 5,700 CY

NOTES:

1. THIS PLAN IS FOR FEASIBILITY ONLY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING A SUITABLE BORROW PIT WHICH MEETS THE DESIGN CRITERIA AND MATERIAL REQUIREMENTS.
2. SEE SHEET C-203 FOR BORROW AREA REQUIREMENTS.
3. THE CONTRACTOR SHALL VERIFY LOCATION OF CITY OWNED LAND.

EXHIBIT M

McCLURE DAM INCLINED INTAKE STRUCTURE
RESERVOIR INFRASTRUCTURE IMPROVEMENTS

FOR INFORMATION PURPOSES ONLY

OVERALL EXCAVATION PLAN

SHEET NO. C-201

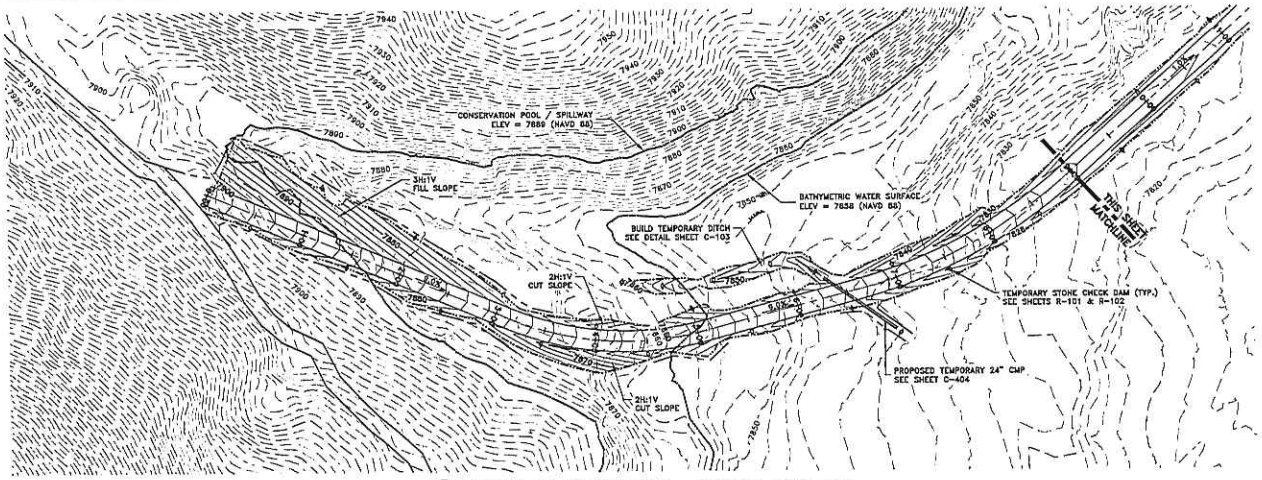
Google earth

feet
meters

City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
Application by: City of Santa Fe, NM.
Sheet 3 of 12

2000
600

City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
Application by: City of Santa Fe, NM.
Sheet 4 of 12



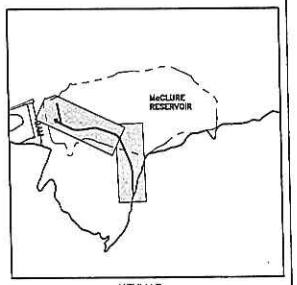
McCLURE DAM EXCAVATION PLAN – TEMPORARY ACCESS ROAD
SCALE: 1" = 50'
CONTOUR INTERVAL = 2'

LEGEND:

- WORK AREA
- GRADING LIMITS
- FINISHED CONTOUR – MAJOR
- FINISHED CONTOUR – MINOR
- EXISTING CONTOUR – MAJOR
- EXISTING CONTOUR – MINOR
- DIRECTION OF FLOW
- WATTLE OR OTHER EPA APPROVED BMP
- STONE CHECK DAMS

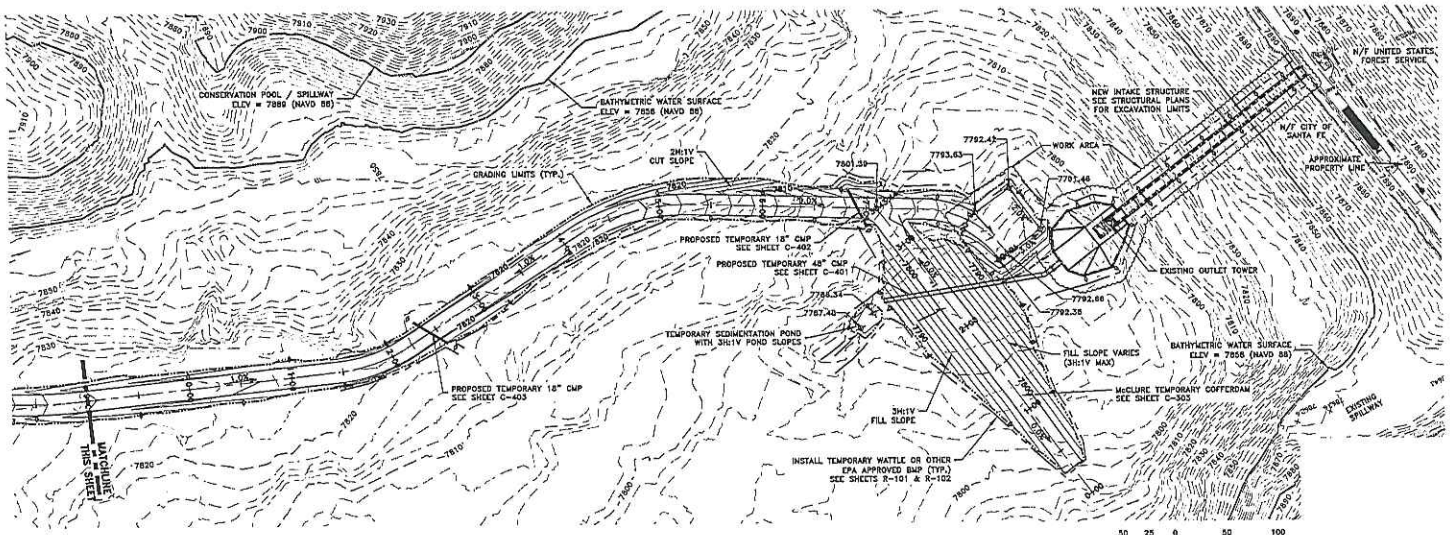
NOTE:

1. THIS PLAN IS FOR FEASIBILITY. THE CONTRACTOR MAY ELECT TO MODIFY THE PLAN OF THE TEMPORARY ACCESS ROAD FOR CONSTRUCTION OPERATIONS AND COST SAVINGS FOR THE CITY OF SANTA FE. MODIFICATIONS SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.



KEYMAP
SCALE: N.T.S.

UNADJUSTED EARTHWORK VOLUMES	
CUT VOLUME	2,850 CY
FILL VOLUME	7,650 CY
BORROW VOLUME	UP TO 6,700 CY



McCLURE DAM EXCAVATION PLAN – TEMPORARY COFFER DAM
SCALE: 1" = 50'
CONTOUR INTERVAL = 2'

EXHIBIT M

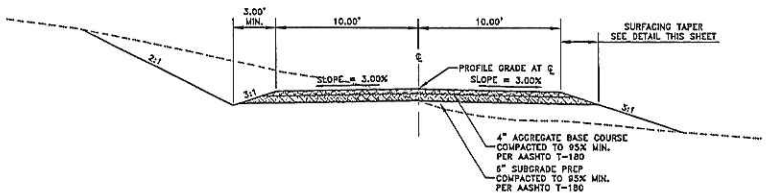
McCLURE DAM INCLINED INTAKE STRUCTURE
RESERVOIR INFRASTRUCTURE IMPROVEMENTS

FOR INFORMATION
PURPOSES ONLY

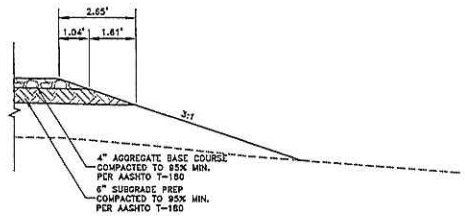
TEMPORARY ACCESS ROAD AND
TEMPORARY BERM ROAD
EXCAVATION PLAN

SHEET NO. C-202

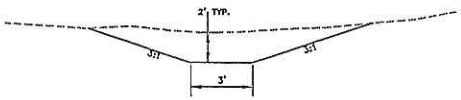
* * * * * NOTE * * * * *	SHEET NO.
THE DESIGN SHOWN ON THESE PLANS IS FOR FEASIBILITY PURPOSES ONLY.	C-103



TYPICAL TEMPORARY ROADWAY SECTION
McCLURE DAM TEMPORARY ACCESS ROAD



SURFACING TAPER



TYPICAL DITCH SECTION

NOTES:

1. COFFERDAM IS TEMPORARY FOR CONSTRUCTION OF INTAKE STRUCTURE. UPSTREAM SLOPE OF COFFER DAM TO BE LINED WITH CLASS "A", 1-FOOT THICK, WIRE ENCLOSED RIP-RAP. TEMPORARY COFFER DAM SHALL BE REMOVED AFTER COMPLETION OF INTAKE STRUCTURE CONSTRUCTION.
2. ACCESS ROAD IS TEMPORARY FOR CONSTRUCTION OF INTAKE STRUCTURE. TEMPORARY ACCESS ROAD SHALL BE REMOVED AFTER COMPLETION OF INTAKE STRUCTURE CONSTRUCTION.

City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
Replacements, Santa Fe County, NM.
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EXHIBIT M

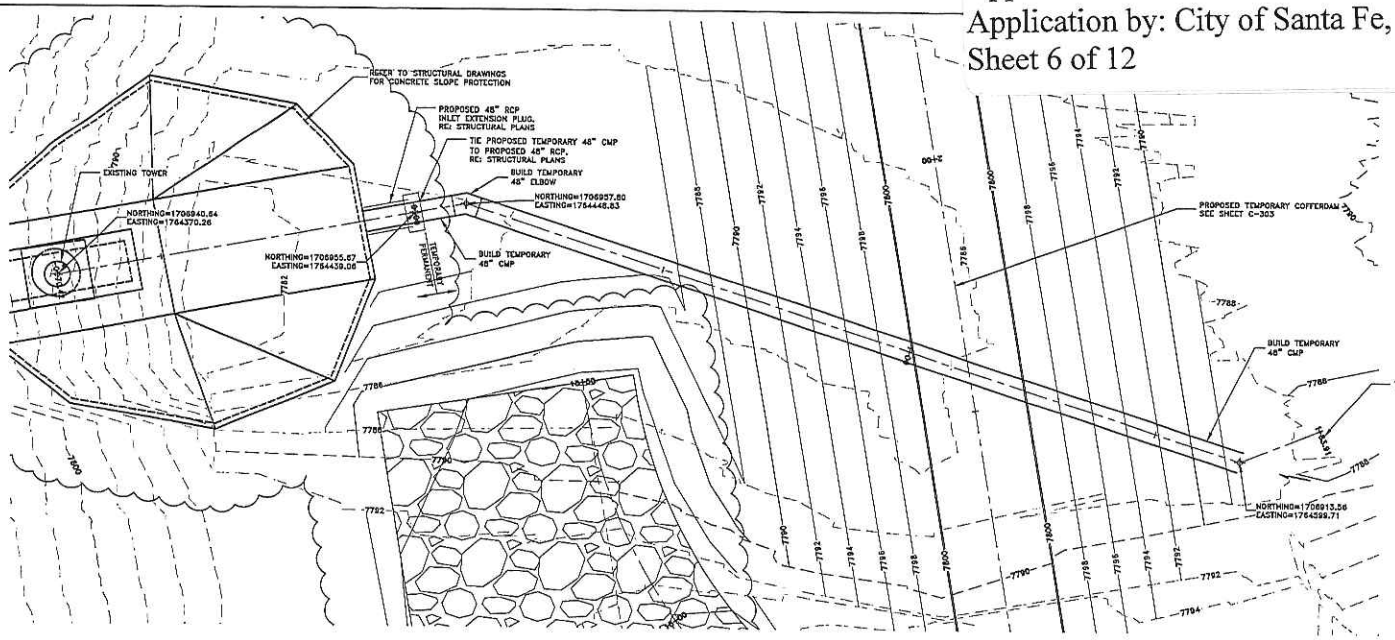
McCLURE DAM INCLINED INTAKE STRUCTURE
RESERVOIR INFRASTRUCTURE IMPROVEMENTS

FOR INFORMATION PURPOSES ONLY

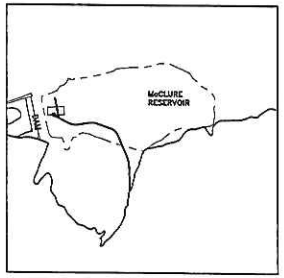
TYPICAL SECTIONS AND DETAILS

SHEET NO. C-103

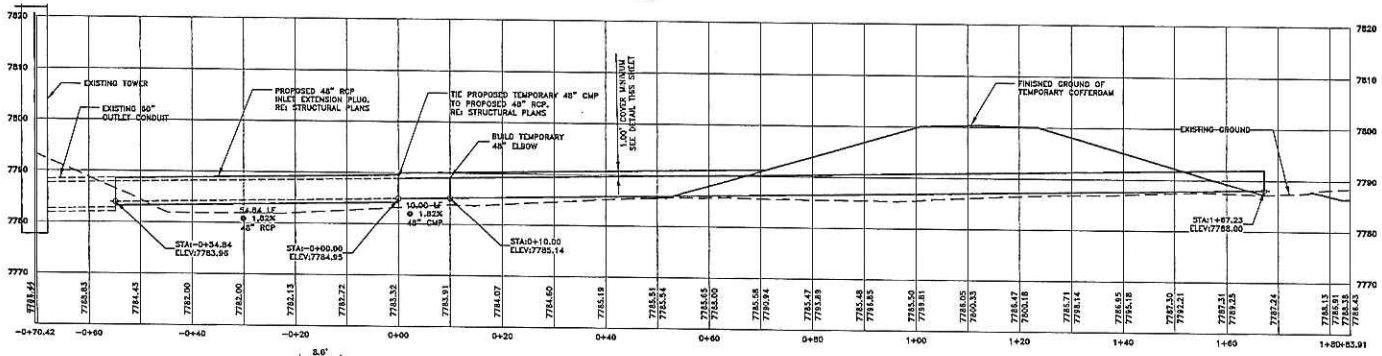
City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
Application by: City of Santa Fe, NM.
Sheet 6 of 12



STRUCTURE SECTION – PLAN VIEW
SCALE: 1" = 10'

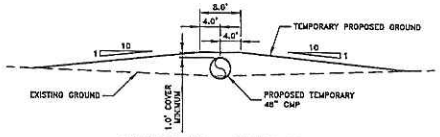


KEYMAP
SCALE: N.T.S.



STRUCTURE SECTION – PROFILE VIEW
SCALE: HORIZ: 1" = 10' VERT: 1" = 10'

STRUCTURE McCLURE TEMPORARY OUTLET		
ROAD	STATION	SKEW
N/A	N/A	N/A
BUILD NOTES		
ITEM	QUANTITY	
48" CMP	157.23 LF	
48" ELBOW	1	
48" CMP	10.00 LF	
48" RCP	RE: STRUCTURAL	



COVER DETAIL – SECTION VIEW
SCALE: HORIZ: 1" = 10' VERT: 1" = 10'

SCALE: 1" = 10'

NOTE:
RCP PIPE IS PERMANENT
CMP PIPE IS TEMPORARY

EXHIBIT M

McCLURE DAM INCLINED INTAKE STRUCTURE
RESERVOIR INFRASTRUCTURE IMPROVEMENTS

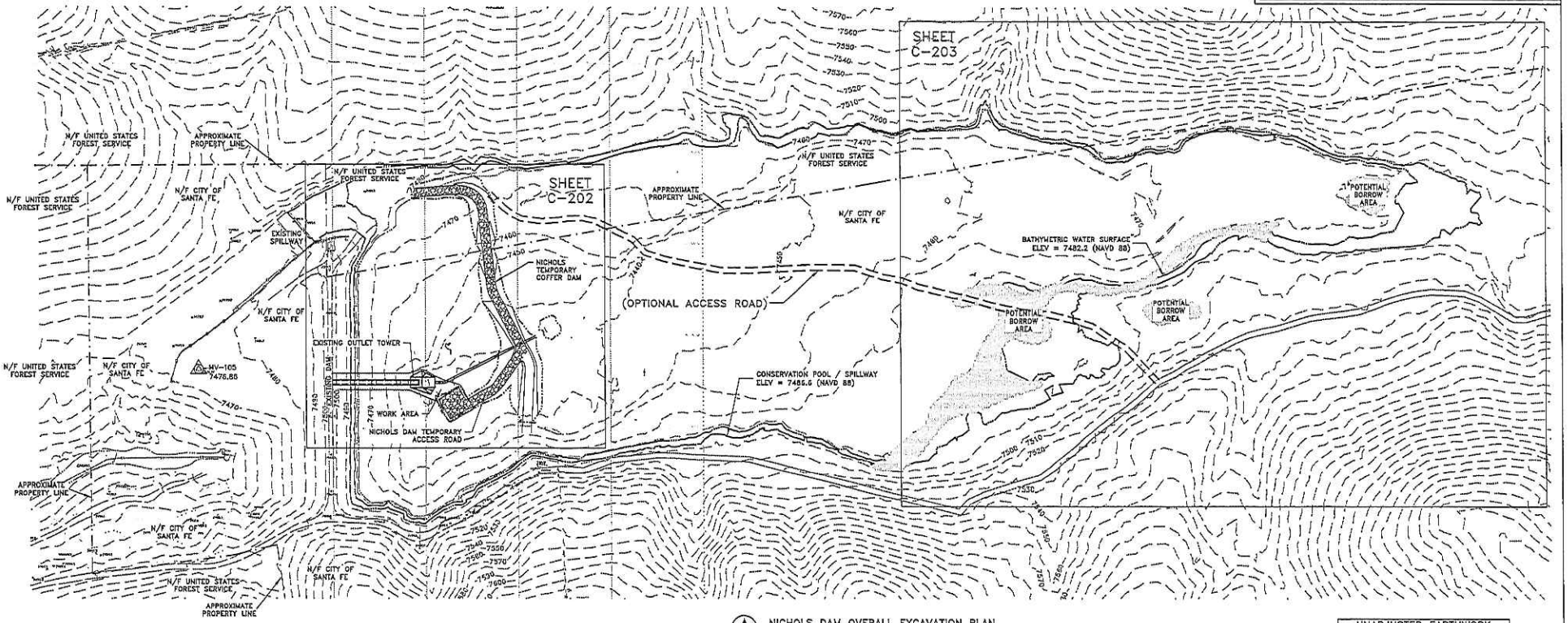
FOR INFORMATION PURPOSES ONLY

STRUCTURE SECTION – TEMPORARY COFFERDAM

SHEET NO. C-401

* * * * * NOTE * * * * *
THE DESIGN SHOWN ON THESE PLANS IS FOR FEASIBILITY PURPOSES ONLY.

SHEET NO. C-201



NICHOLS DAM OVERALL EXCAVATION PLAN
SCALE: 1" = 100'
CONTOUR INTERVAL = 10'

100 50 0 100 200
SCALE: 1" = 100'

UNADJUSTED EARTHWORK VOLUMES	
CUT VOLUME	1,700 CY
FILL VOLUME	4,000 CY
BORROW VOLUME	UP TO 3,300 CY

NOTES:

1. THIS PLAN IS FOR FEASIBILITY ONLY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING A SUITABLE BORROW PIT WHICH MEETS THE DESIGN CRITERIA AND MATERIAL REQUIREMENTS.
2. SEE SHEET C-203 FOR BORROW AREA REQUIREMENTS.
3. THE CONTRACTOR SHALL VERIFY LOCATION OF CITY OWNED LAND.

LEGEND:

- WORK AREA
- GRADING LIMITS
- FINISHED CONTOUR – MAJOR
- EXISTING CONTOUR – MAJOR
- CITY OF SANTA FE PROPERTY LINE

EXHIBIT N

NICHOLS DAM INCLINED INTAKE STRUCTURE
RESERVOIR INFRASTRUCTURE IMPROVEMENTS

FOR INFORMATION PURPOSES ONLY

OVERALL EXCAVATION PLAN

SHEET NO. C-201

City of Santa Fe, Public Utilities and Water Division, Nichols and McClure Reservoirs, Dam Outlet Tower Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
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City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
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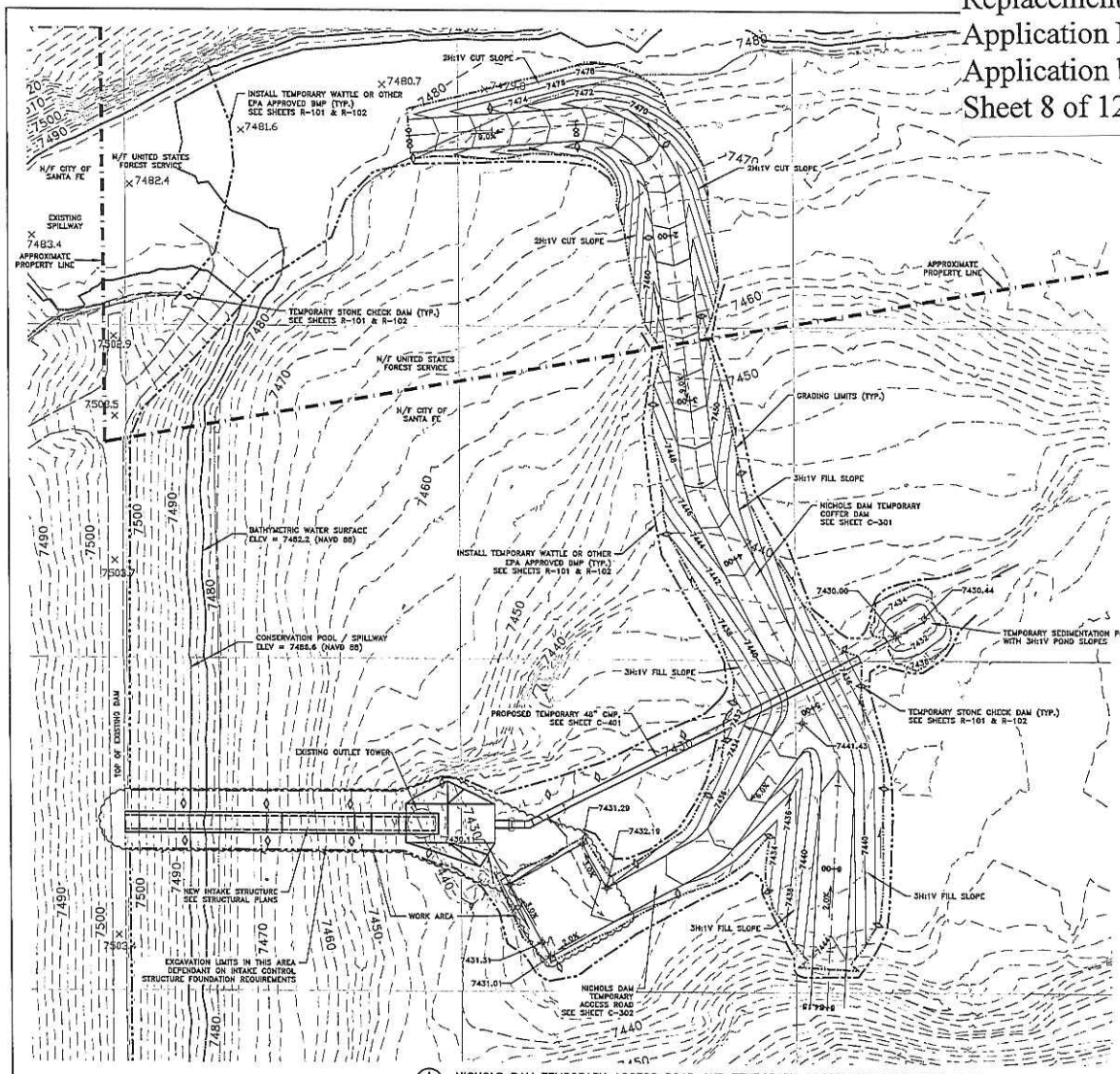
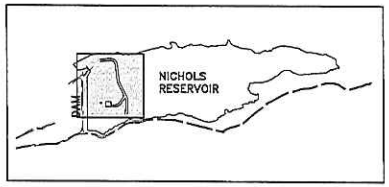


NICHOLS DAM TEMPORARY ACCESS ROAD AND TEMPORARY COFFERDAM EXCAVATION PLAN
SCALE: 1" = 30'
CONTOUR INTERVAL = 2'

LEGEND:

- WORK AREA
- GRADING LIMITS
- FINISHED CONTOUR – MAJOR
- FINISHED CONTOUR – MINOR
- EXISTING CONTOUR – MAJOR
- EXISTING CONTOUR – MINOR
- DIRECTION OF FLOW
- WATTLE OR OTHER EPA APPROVED BMP
- STONE CHECK DAMS



KEYMAP
SCALE: 1" = 500'

NOTE:

1. THIS PLAN IS FOR FEASIBILITY. THE CONTRACTOR MAY ELECT TO MODIFY THE PLAN FOR CONSTRUCTION OPERATIONS AND COST SAVINGS FOR THE CITY OF SANTA FE. MODIFICATIONS SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.

UNADJUSTED EARTHWORK VOLUMES	
CUT VOLUME	1,700 CY
FILL VOLUME	4,000 CY
BORROW VOLUME	UP TO 2,300 CY

SCALE: 1" = 30'

EXHIBIT N

NICHOLS DAM INCLINED INTAKE STRUCTURE
RESERVOIR INFRASTRUCTURE IMPROVEMENTS

FOR INFORMATION PURPOSES ONLY

TEMPORARY ACCESS ROAD AND TEMPORARY COFFERDAM EXCAVATION PLAN

SHEET NO. C-202

City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
Application by: City of Santa Fe, NM.
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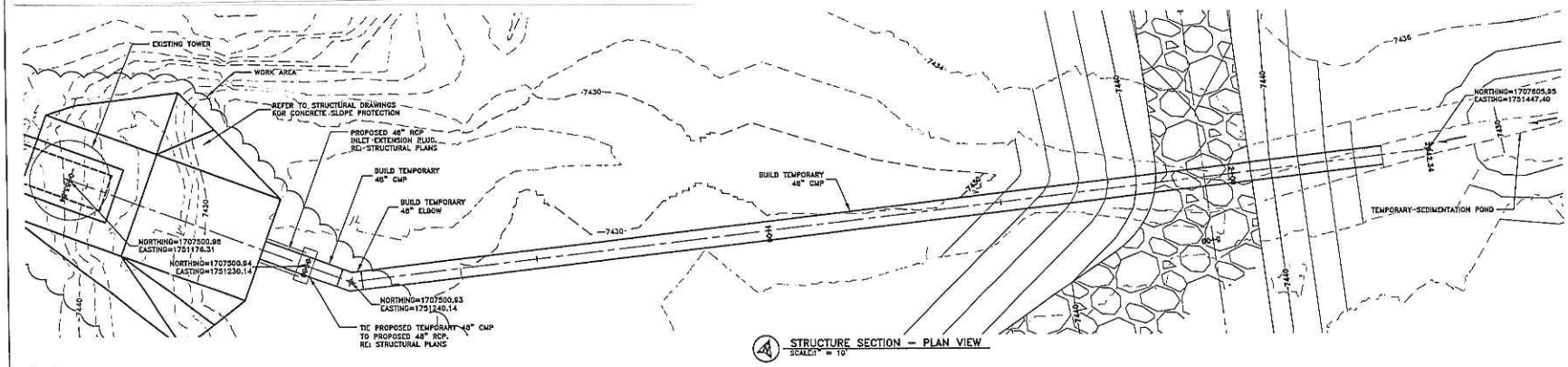
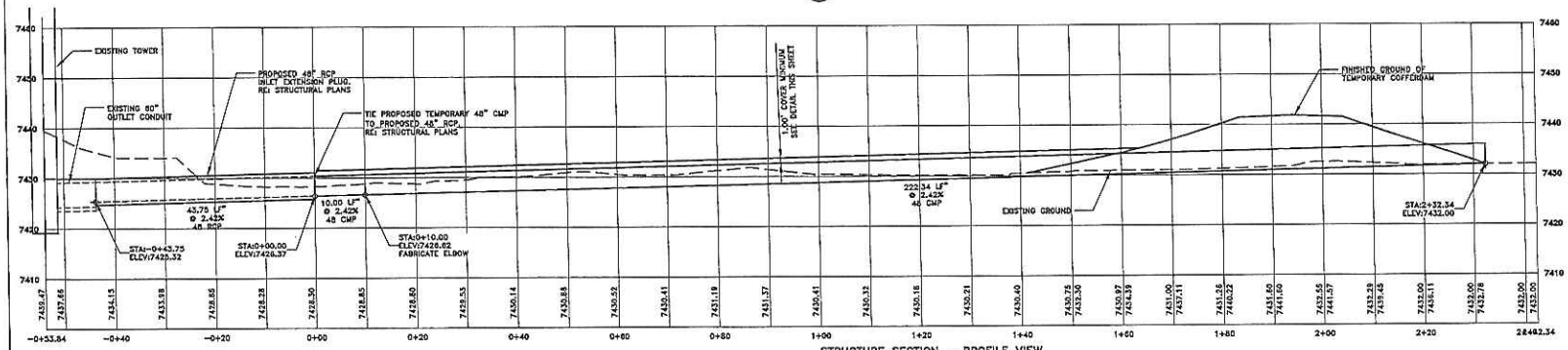
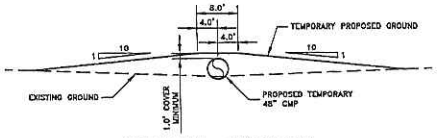


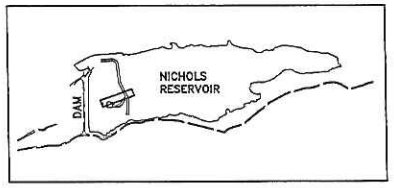
STRUCTURE SECTION – PLAN VIEW
SCALE: 1" = 10'



STRUCTURE SECTION – PROFILE VIEW
SCALE: HORIZ: 1" = 10' VERT: 1" = 10'



COVER DETAIL – SECTION VIEW
SCALE: HORIZ: 1" = 10' VERT: 1" = 10'



KEYMAP
SCALE: 1" = 500'

STRUCTURE NICHOLS TEMPORARY OUTLET		
ROAD	STATION	SKEW
N/A	N/A	N/A
BUILD NOTES		
ITEM	QUANTITY	
48" CMP	222.34 LF	
48" ELBOW	1	
48" CMP	10.00 LF	
48" RCP	RE: STRUCTURAL	

10 5 0 10 20
SCALE: 1" = 10'

NOTE:
RCP PIPE IS PERMANENT
CMP PIPE IS TEMPORARY

EXHIBIT N

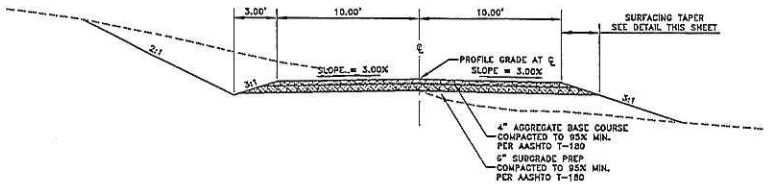
NICHOLS DAM INCLINED INTAKE STRUCTURE
RESERVOIR INFRASTRUCTURE IMPROVEMENTS

FOR INFORMATION PURPOSES ONLY

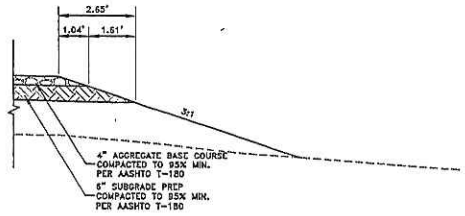
STRUCTURE SECTIONS

SHEET NO. C-401

* * * * * NOTE * * * * *	SHEET NO.
THE DESIGN SHOWN ON THESE PLANS IS FOR FEASIBILITY PURPOSES ONLY.	C-103



TYPICAL ROADWAY SECTION
NICHOLS DAM TEMPORARY ACCESS ROAD
STATION 0+00 TO 2+21.04
AND TEMPORARY COFFERDAM
STATION 0+00 TO 5+11.27



SURFACING TAPER

NOTES:

1. COFFERDAM IS TEMPORARY FOR CONSTRUCTION OF INTAKE STRUCTURE. UPSTREAM SLOPE OF COFFER DAM TO BE LINED WITH CLASS "A", 1-FOOT THICK, WIRE ENCLOSED RIP-RAP. TEMPORARY COFFER DAM SHALL BE REMOVED AFTER COMPLETION OF INTAKE STRUCTURE CONSTRUCTION.
2. ACCESS ROAD IS TEMPORARY FOR CONSTRUCTION OF INTAKE STRUCTURE. TEMPORARY ACCESS ROAD SHALL BE REMOVED AFTER COMPLETION OF INTAKE STRUCTURE CONSTRUCTION.

City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
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EXHIBIT N

NICHOLS DAM INCLINED INTAKE STRUCTURE
RESERVOIR INFRASTRUCTURE IMPROVEMENTS

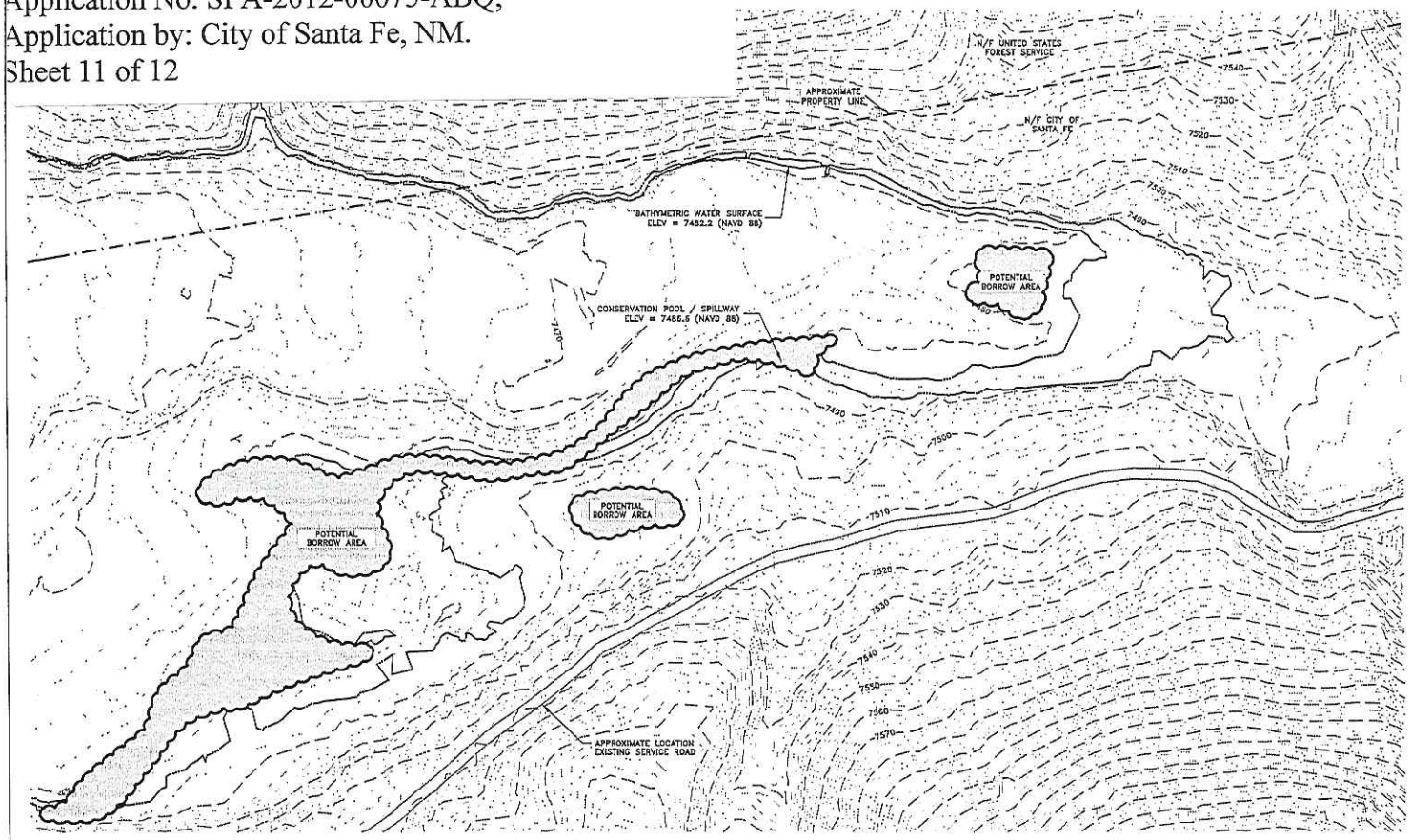
FOR INFORMATION
PURPOSES ONLY

TYPICAL SECTIONS AND DETAILS

SHEET NO. C-103

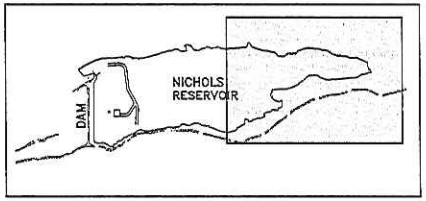
City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
Application by: City of Santa Fe, NM.
Sheet 11 of 12

* * * * * NOTE * * * * *	SHEET NO.
THE DESIGN SHOWN ON THESE PLANS IS FOR FEASIBILITY PURPOSES ONLY.	C-203



LEGEND:

- APPROXIMATE PROPERTY LINE
- EXISTING CONTOUR - MAJOR
- EXISTING CONTOUR - MINOR
- POTENTIAL BORROW AREA



KEYMAP
SCALE: 1" = 500'

NOTES:

1. THIS PLAN IS FOR FEASIBILITY. THE CONTRACTOR MAY ELECT TO MODIFY THE PLAN OF THE TEMPORARY ACCESS ROAD FOR CONSTRUCTION OPERATIONS AND COST SAVINGS FOR THE CITY OF SANTA FE. MODIFICATIONS SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL VERIFY THAT MATERIALS MEET PROJECT SPECIFICATIONS PRIOR TO CONSTRUCTION.
3. REFER TO EARTHWORK SPECIFICATION, SECTION 31 23 16.3.1.1, "ADDITIONAL EARTHWORK REQUIREMENTS"
4. CRITERIA FOR LOCATION OF BORROW AREA:
   a. AS FAR FROM DAM AS POSSIBLE TO AVOID PENETRATION INTO POTENTIAL PERVIOUS STRATA TO COULD PROVIDE A SEEPAGE PATH TO THE DAM.
   b. WITHIN CITY OWNED LAND.
   c. BORROW DEPTH SHALL BE LIMITED TO THE ESTIMATED SEDIMENT THICKNESS VALUES PRESENTED IN "FIGURE 17 – NICHOLS RESERVOIR SEDIMENT THICKNESS MAP, VOLUMETRIC AND SEDIMENTATION SURVEY OF NICHOLS RESERVOIR", DATED SEPTEMBER, 2011, PREPARED BY INTERA INC.

POTENTIAL BORROW AREA LOCATION PLAN
SCALE: 1" = 60'
CONTOUR INTERVAL = 2'

60 30 0 60 120
SCALE: 1" = 60'

EXHIBIT N

NICHOLS DAM INCLINED INTAKE STRUCTURE
RESERVOIR INFRASTRUCTURE IMPROVEMENTS

FOR INFORMATION PURPOSES ONLY

POTENTIAL BORROW AREA LOCATION PLAN

SHEET NO. C-203

Google earth

feet
meters

City of Santa Fe, Public Utilities and Water Division,
Nichols and McClure Reservoirs, Dam Outlet Tower
Replacements, Santa Fe County, NM.
Application No. SPA-2012-00075-ABQ;
Application by: City of Santa Fe, NM.
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