

CITY OF ALBUQUERQUE



February 11, 2010

Asa Nilsson-Weber, PE
Isaacson & Arfman
128 Monroe NE
Albuquerque, NM 87108

**Re: Black Arroyo Park Grading and Drainage Plan
Engineer's Stamp dated 2-1-10, (A12/D16C1)**

Dear Ms. Nilsson-Weber,

Based upon the information provided in your submittal dated 2-3-10, the above referenced plan is approved for Work Order. Upon completion of the project, please provide an Engineers Certification of the plan for our files.

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE
Principal Engineer, Planning Dept.
Development and Building Services

C: file

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

CONNECT 18" RCP SD TO EXST 8" MANHOLE:
RIM ELEV=5189.44
INV NE=79.34±
INV SW=82.99±
INV SE=83.0
HGL=83.1

109 LF EXST 60" RCP
SD @ 3.95%
Q100=172.5 CFS
V100=10.5 FPS
HGL @ CHANNEL
OUTFALL=81.7±

1-18" NYLOPLAST DRAIN BASIN WITH
18" INLET & OUTLET @ 150° ANGLE
1-18" CONCRETE ADAPTER NW
SOLID GRATE AND CONCRETE COLLAR
SEE DETAIL THIS SHEET
RIM=83.2
INV W=83.25
INV E=83.35

1-30" NYLOPLAST INLINE DRAIN WITH 18"
OUTLET.
DOMED GRATE AND CONCRETE COLLAR
SEE DETAIL THIS SHEET
RIM=87.0
INV W=84.0
HGL=85.8

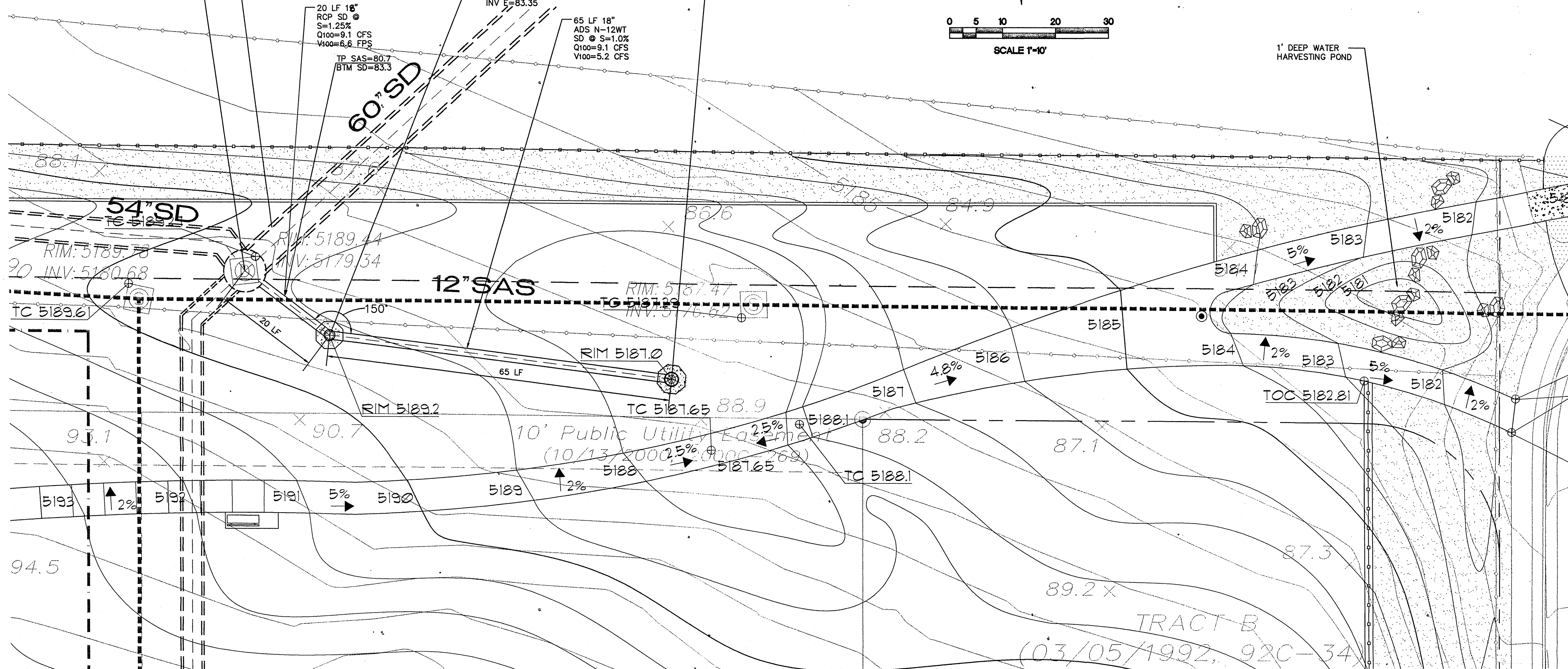
20 LF 18"
RCP SD @
S=1.25%
Q100=9.1 CFS
V100=6.6 FPS
TP SAS=80.7
BTM SD=83.3

65 LF 18"
ADS N-12WT
SD @ S=1.0%
Q100=9.1 CFS
V100=5.2 CFS

0 5 10 20 30
SCALE 1"=10'

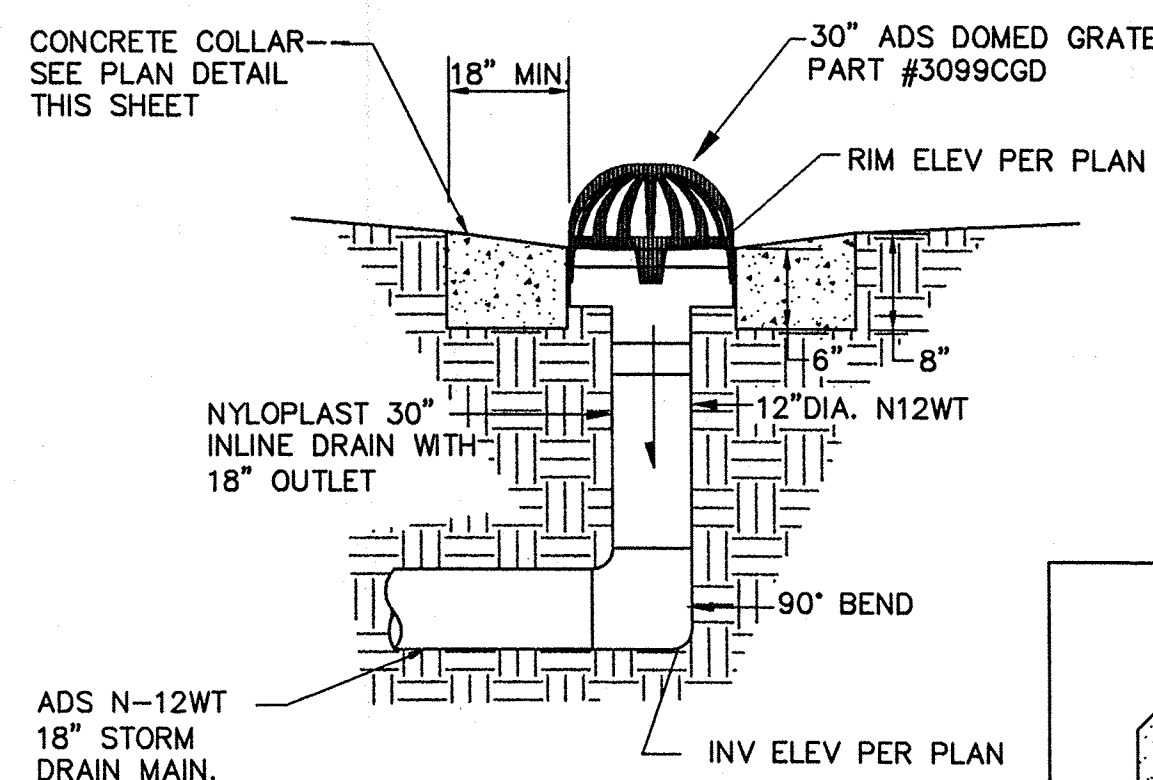
NOTES

- CONTRACTOR SHALL FURNISH ALL STORM DRAIN PRODUCTS.
- INSTALL ALL ADS N-12WT (WATERTIGHT) PIPE, FITTINGS, INLINE DRAIN DRAIN BASIN, AND GRATES PER MANUFACTURER'S REQUIREMENTS. ALL GRATES SHALL HAVE LOCKING OPTION.
- INSTALL ALL NEW STORM DRAIN LINES AT RIM AND INVERT ELEVATIONS SHOWN.



INLINE DRAIN

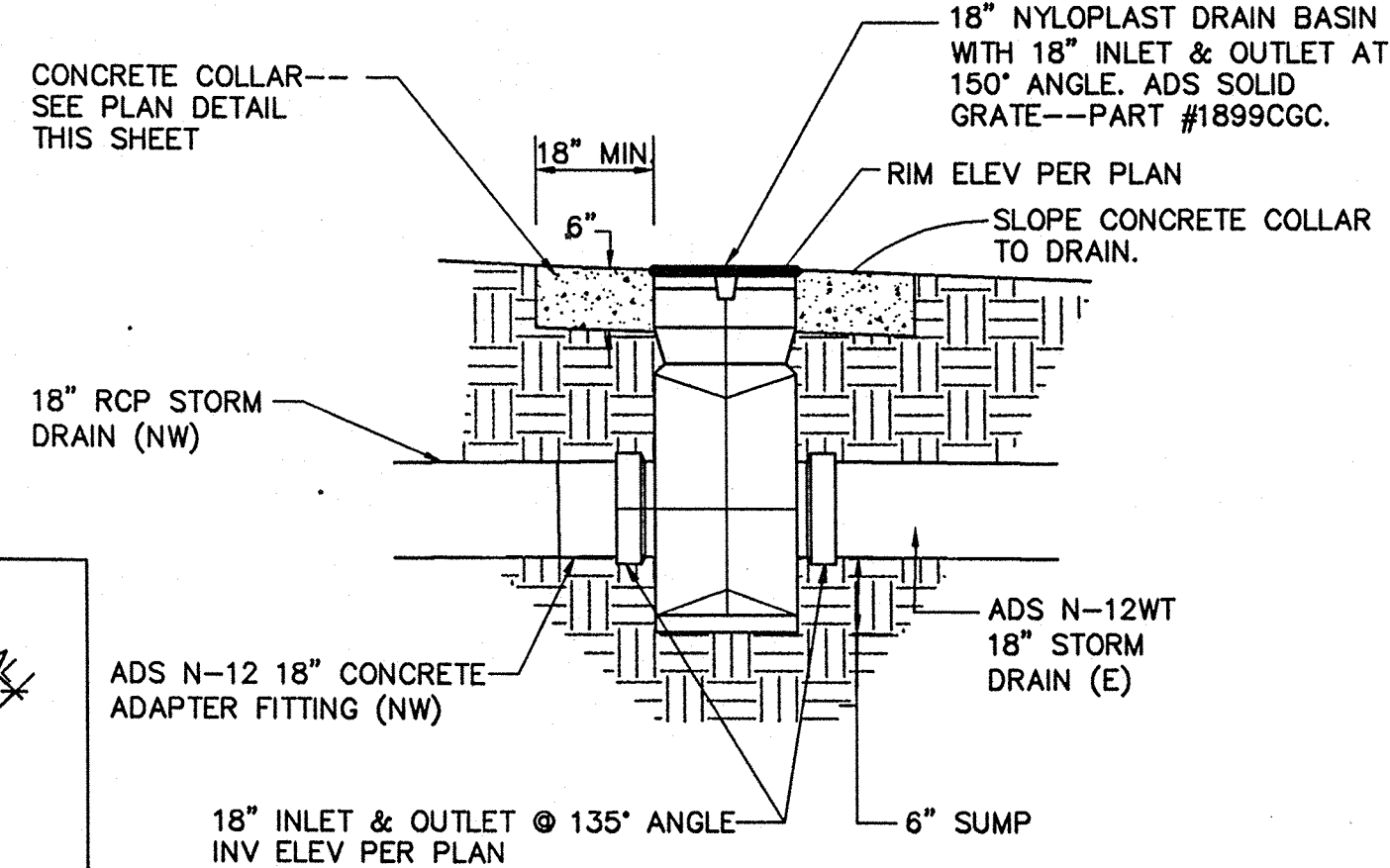
NTS



CONCRETE COLLAR PLAN
NTS

DRAIN BASIN

NTS



S.O.19 : NOTICE TO CONTRACTORS

- AN EXCAVATION / CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7 AMENDMENT 1.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC / STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

APPROVAL NAME DATE
INSPECTOR

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 Fax. 505-268-2632
1751 CU-501.dwg Feb 01,2010

**MORROW REARDON
WILKINSON MILLER, LTD.,
LANDSCAPE ARCHITECTS**
210 La Veta NE, Albuquerque, NM 87108
505-268-2286 FAX 505-268-9837
mrw@mrwllm.com

CITY OF ALBUQUERQUE
PARK DESIGN AND CONSTRUCTION DIVISION
DEPARTMENT OF MUNICIPAL DEVELOPMENT

BLACK ARROYO PARK IMPROVEMENTS
STORM DRAIN PLAN

Design Review Committee City Engineer Approval
City Project No. 787491 Zone Map No. A-12 Sheet 19 OF 21

AS-BUILT INFORMATION	
CONTRACTOR	
WORK STARTED BY	
DATE	
FIELD ACCEPTANCE BY	
DATE	
FIELD REVISION BY	
DATE	
FIELD CORRECTION BY	
DATE	
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	

BENCH MARKS	
CONTROL STATION "BLACK 2"	
Elevation = 5216.64' (NAVD83)	

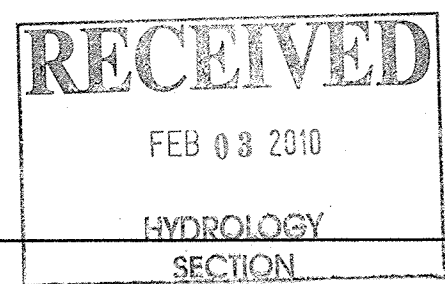
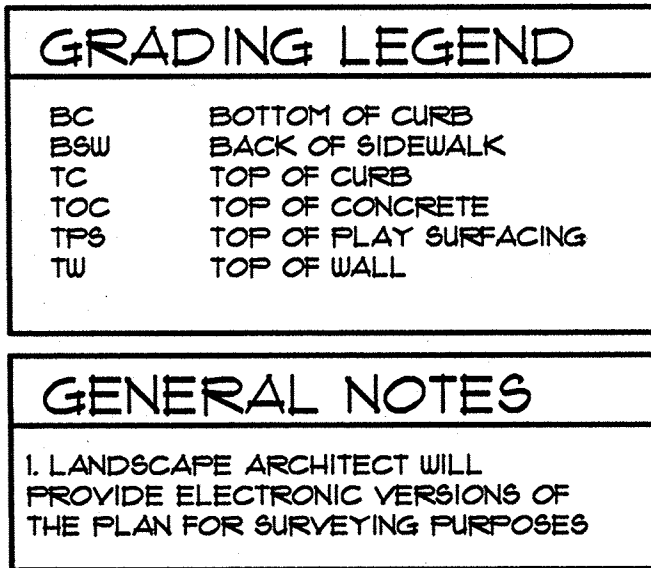
SURVEY INFORMATION	
FIELD NOTES	
BY	DATE
1. Surveying Control, Inc. 12/06	

ENGINEER'S SEAL
ISAACSON & ARFMAN, P.A.
NEW MEXICO
17631
2-1-10

REVISIONS	
NO.	DATE
1.	8/27/09
2.	8/27/09
3.	8/27/09

PROJECT# 7215530

RECORD DRAWINGS
DATE: FEBRUARY 1, 2010

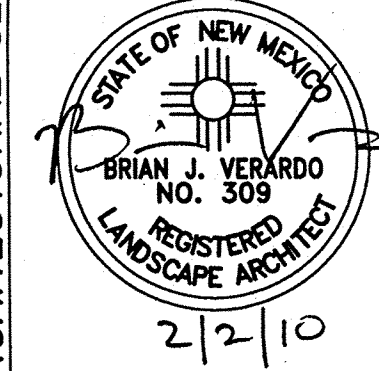


CITY OF ALBUQUERQUE
PARK DESIGN AND CONSTRUCTION DIVISION
DEPARTMENT OF MUNICIPAL DEVELOPMENT

BLACK ARROYO PARK IMPROVEMENTS OVERALL GRADING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 787491		Zone Map No. A-12	Sheet 5 OF 21	

AS-BUILT INFORMATION	
CONTRACTOR	
WORK ORDER BY	DATE
INSPECTOR'S	DATE
ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
CONNECTED BY	
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

[illegible][illegible][illegible][illegible]

100% SUBMITTAL
DATE: FEBRUARY 1, 2010