

7601 JEFFERSON NE, SUITE 100 ALBUQUERQUE, NM 87109 505.761.9700 / DPSDESIGN.ORG

REVISIONS ADDENDUM 002

REVIEWED BY PROJECT NO

OVERALL GRADING AND DRAINAGE PLAN

CG-100

KEYED NOTES

THESE NOTES ARE REFERENCED ON SHEETS CG-102 AND CG-103. NOT ALL NOTES ARE USED ON EACH SHEET. UNDERLINED NOTES INDICATE ASSOCIATED DETAIL ON SHEET CG-503. SEE

- SPOT ELEVATIONS WITHIN GUTTER AREA REPRESENT FLOWLINE UNLESS NOTED. ADD 0.5' TYPICAL FOR TOP OF CURB / TOP OF ADJACENT WALK ELEVATIONS.
- SEE PUBLIC WORK ORDER DRAWINGS FOR CONSTRUCTION WITHIN R.O.W. GRADES IN R.O.W. ARE SHOWN FOR INFORMATION ONLY. CONSTRUCT PAVING, CURBS, WALKS AT ELEVATIONS SHOWN. SEE PAVING PLAN AND SITE DETAILS FOR ADDITIONAL INFORMATION. NOTE: PAVEMENT SLOPES AND CROSS-SLOPES VARY THROUGHOUT TO ACHIEVE ADA COMPLIANT PEDESTRIAN ACCESS, STREET STORMWATER CAPACITIES, PIPE COVERAGE, ETC. SEE LEGEND FOR 1' AND 0.5' CONTOUR LINETYPES
 - SLOPES WITHIN HANDICAP PARKING AREAS TO BE ADA COMPLIANT. MAX. SLOPE = 2% IN ANY DIRECTION.
- CONSTRUCT ADA COMPLIANT HANDICAP ACCESS RAMP.
- GARAGE UNIT GRADES REFLECT TOP OF PAD ELEVATION AT BACK AND FRONT OF INDIVIDUAL UNIT. UNITS STEP IN BOTH DIRECTIONS AS NOTED.
- GRADE OFF-SITE @ MAX. 5:1 SLOPE AND CONSTRUCT TEMPORARY SWALES, DESILTATION PONDS, AND OVERFLOWS TO ROUTE UNDEVELOPED FLOW AROUND THE PROPOSED DEVELOPMENT. LETTER FROM OFF-SITE PROPERTY OWNER(S) GIVING PERMISSION TO GRADE WILL BE PROVIDED TO COA HYDROLOGY FOR THEIR FILES. SEE CG-100 FOR EXTENT OF OFF-SITE GRADING.
- GRADE FIRST FLUSH RETENTION BASIN (F.F. BASIN) AS DEFINED VOLUME CALCULATIONS. NOTE: GRADING OF F.F. BASINS WILL BE INSPECTED AS PART OF ENGINEER'S CERTIFICATION FOR CERT. OF OCCUPANCY. DURING LANDSCAPING, F.F. BASINS MAY BE SMOOTHLY INTEGRATED INTO LANDSCAPING BUT MUST MAINTAIN REQUIRED TOP AND BOTTOM ELEVATION AND VOLUME
- CONSTRUCT PERCOLATION TRENCH.
- 10. ROOF DISCHARGE TO BE RELEASED VIA DOWNSPOUTS AT LOCATIONS SHOWN. SEE CG-501 AND CG-502 FOR ADDITIONAL
- . CONSTRUCT F.F. ROCK SWALE (3' TO 5' WIDE) TO PASS CONCENTRATED FLOW.
- 12. PROVIDE 1' WIDE CURB OPENING. PROVIDE 3' X 3' X 12" DEEP ANGULAR ROCK EROSION PROTECTION AT OUTFALL (DO NOT
- 13. PROVIDE 2' WIDE CURB OPENING, PROVIDE 5' X 3' X 12" DEEP ANGULAR ROCK EROSION PROTECTION AT OUTFALL (DO NOT
- 14. PROVIDE 2' WIDE X 6" HIGH (MIN.) OPENING THROUGH WALL AT FLOWLINE ELEVATION SHOWN TO PASS FLOW. WALL DESIGN BY
- 15. CONSTRUCT PRIVATE STORM DRAIN SYSTEM. SEE SHEETS CG-501 AND CG-502 FOR SIZE / SLOPE / INLET / MATERIAL.
- 16. CONSTRUCT <u>COVERED SIDEWALK CULVERT</u> (WIDTH PER PLAN) PER C.O.A. STD. DWG. 2236 AND DETAIL SHEET CG-503.
- 17. POOL GRADES ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR TO PROVIDE FINAL DESIGN GRADES / DECK
- 18. SEE ARCHITECTURAL PLANS FOR EXTENDED / RETAINING STEMWALLS TO ACHIEVE GRADES SHOWN.
- 19. CONSTRUCT SITE RETAINING WALL THIS AREA (RETAINING HEIGHT VARIES). TOP OF GRADE ELEVATIONS (EACH SIDE) ARE PROVIDED. STRUCTURAL DESIGN BY OTHERS.
- 20. EROSION CONTROL (MIN. 12" DEEP 6" AVG. DIA. ANGULAR FACED ROCK) TO BE INSTALLED ON ALL SIDE SLOPES > 3:1 AND AS SHOWN HATCHED. OWNER'S OPTION: USE LANDSCAPE BOULDERS / GARDEN RETAINING TO FLATTEN SLOPES.
- 21. CONCRETE STEPS WITH HANDRAILS. SEE ARCHITECTURAL.

GRADING NOTE

PROPOSED SPOT AND CONTOUR ELEVATIONS SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL

LEGEND

PROPOSED CONTOUR - 1' INCREMENT PROPOSED CONTOUR - 0.5' INCREMENT PROPOSED SPOT ELEVATION FLOW ARROW

ROOF DISCHARGE (SEE CG-501)

F.F. = XXXX.XX FINISH FLOOR ELEVATION

EXISTING ELEVATION (±) TO MATCH. PROVIDE SMOOTH TRANSITION. ROCK EROSION CONTROL PERCOLATION TRENCH PROPOSED STORM DRAIN (SEE CG-501)

FLOWLINE ELEVATION INVERT ELEVATION

RETAINING WALL

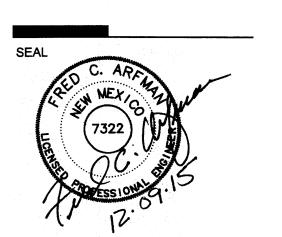
'FIRST FLUSH' RETENTION BASIN

ISAACSON & ARFMAN, P.A Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com

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DRAWN BY REVIEWED BY

PROJECT NO

DRAWING NAME **GRADING AND** DRAINAGE PLAN

1 OF 2

CG-101

× KEYED NOTES

THESE NOTES ARE REFERENCED ON SHEETS CG-102 AND CG-103. NOT ALL NOTES ARE USED ON EACH SHEET. UNDERLINED NOTES INDICATE ASSOCIATED DETAIL ON SHEET CG-503. SEE ARCHITECTURAL FOR SITE AND PAVING DETAILS.

- SPOT ELEVATIONS WITHIN GUTTER AREA REPRESENT FLOWLINE UNLESS NOTED. ADD 0.5' TYPICAL FOR TOP OF CURB / TOP
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- 10. ROOF DISCHARGE TO BE RELEASED VIA DOWNSPOUTS AT LOCATIONS SHOWN. SEE CG-501 AND CG-502 FOR ADDITIONAL INFORMATION.
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- 12. PROVIDE 1' WIDE CURB OPENING. PROVIDE 3' X 3' X 12" DEEP ANGULAR ROCK EROSION PROTECTION AT OUTFALL (DO NOT BLOCK FLOWLINE).
- 13. PROVIDE 2' WIDE <u>CURB OPENING</u>, PROVIDE 5' X 3' X 12" DEEP ANGULAR <u>ROCK EROSION PROTECTION</u> AT OUTFALL (DO NOT
- 4. PROVIDE 2' WIDE X 6" HIGH (MIN.) OPENING THROUGH WALL AT FLOWLINE ELEVATION SHOWN TO PASS FLOW. WALL DESIGN BY
- 15. CONSTRUCT PRIVATE STORM DRAIN SYSTEM. SEE SHEETS CG-501 AND CG-502 FOR SIZE / SLOPE / INLET / MATERIAL
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LEGEND

PROPOSED CONTOUR - 1' INCREMENT

— — — -75.5 — —	PROPOSED CONTOUR - 0.5' INCREMENT
4 78.3	PROPOSED SPOT ELEVATION
	FLOW ARROW
	ROOF DISCHARGE (SEE CG-501)
F.F.=XXXX.XX	FINISH FLOOR ELEVATION
♦ 78.3±	EXISTING ELEVATION (\pm) TO MATCH. PROVIDE SMOOTH TRANSITION.
	ROCK EROSION CONTROL
	PERCOLATION TRENCH
	PROPOSED STORM DRAIN (SEE CG-501)
FL=	FLOWLINE ELEVATION
INV=	INVERT ELEVATION
	RETAINING WALL
	'FIRST FLUSH' RETENTION BASIN

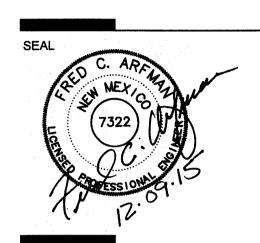
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REVISIONS ADDENDUM 002 REVIEWED BY 12/09/2015

15-0074

DRAWING NAME **GRADING AND** DRAINAGE PLAN 2 OF 2

SHEET NO

PROJECT NO

CG-102

STORM DRAIN LEGEND AND NOTES

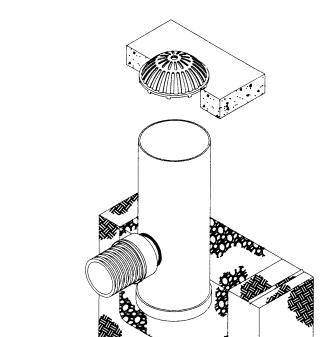
FOR USE WITH SHEETS CG-501 AND CG-502

NYLOPLAST MANHOLE INLET WITH DOMED GRATE ALL MANHOLE INLETS (MH) TO INCLUDE:
• 24"ø ADS NYLOPLAST BASIN

 2' SUMP LOCKING 24"ø DOMED GRATE

• 8" WIDE X 6" THICK CONCRETE COLLAR

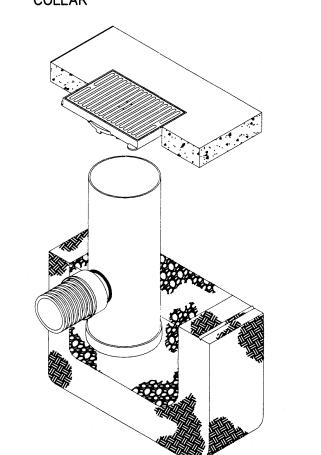




2 FT X 3 FT ROAD & HIGHWAY STRUCTURE

ALL ROAD & HIGHWAY STRUCTURES TO • 18"ø ADS NYLOPLAST BASIN

• 2' SUMP • LOCKING 2'X3' H-20 RATED GRATE • 18" WIDE X 8" THICK CONCRETE COLLAR



ALL STORM DRAIN INLETS, PIPES, FIRST FLUSH PONDS,

POST-CONSTRUCTION MAINTENANCE FOR PRIVATE STORMWATER

FACILITIES WILL BE THE RESPONSIBLITY OF THE FACILITIES' OWNER. PERIODIC INSPECTION AND CERTIFICATION OF THE FACILITIES MAY BE REQUIRED BY THE CITY ENGINEER.

DETENTION PONDS AND DESILTATION PONDS MUST BE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN IN ORDER TO RECEIVE ENGINEER'S CERTIFICATION (VOLUME, ELEVATIONS, RIMS AND INVERTS).

SEE SHEET CN-100 FOR ADDITIONAL NOTES AND

SPECIFICATIONS.

LD INLET LANDSCAPE STORM DRAIN INLET

ALL LANDSCAPE AREA INLETS (LD) TO

INLCUDE: • 12"ø ADS INLINE DRAIN • 12"ø LOCKING DOMED GRATE

• 8" WIDE X 6" DEEP CONCRETE COLLAR

ROOF DRAIN DISCHARGE:
SEE ARCHITECTURAL PLANS FOR DIAMETER
AND DETAILS AT BUILDING. (1) ROOF DRAIN DISCHARGE TO SURFACE. CONSTRUCT 3'X3'X12" DEEP ROCK
SPLASH PAD AT OUTLET. CONTINUE
ROCK SWALE AS SHOWN.

> ROOF DRAIN DISCHARGE DIRECTLY TO STORM DRAIN SYSTEM. EXTEND PIPE AND CONNECT TO ADJACENT STORM DRAIN SYSTEM USING WATERTIGHT FITTINGS AS REQUIRED.

ROOF DRAIN DISCHARGE PIPED THROUGH WALK. RELEASE TO PAVEMENT AT FLOWLINE.

BUBBLE UP BUBBLE UP OUTLET

ALL BUBBLE UP OUTLETS TO INCLUDE: 18"ø ADS NYLOPLAST BASIN 2' SUMP

 LOCKING 18"ø DOMED GRATE 8" WIDE X 6" THICK CONCRETE COLLAR

FLOOR DRAIN

ALL INTERIOR COURTYARD FLOOR DRAINS TO INCLUDE:

• 6"ø ADS INLINE DRAIN WITH 6" OUTLET LOCKING 6"ø DOMED GRATE • 6" WIDE X 6" THICK CONCRETE COLLAR

 6" PIPE AND FITTINGS AS REQUIRED TO CONNECT TO TRUNK LINE.



A. ALL PRIVATE STORM DRAIN LINES AND FITTINGS SHALL BE THE FOLLOWING MATERIAL:

PVC SDR 35. = 12" DIA. SHALL BE EITHER ADS MEGA GREEN WT

INSTALL ALL STORM DRAIN INLETS AND PIPE PER

STORM DRAIN SYSTEM WILL REQUIRE REGULAR MAINTENANCE TO ENSURE PROPER FUNCTIONING

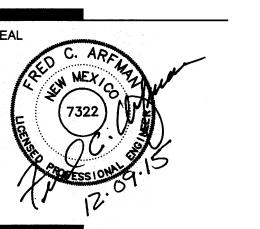
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< 12" DIA. SHALL BE EITHER ADS N-12 WT PIPE OR

PIPE OR PVC SDR 35. > 12" DIA. SHALL BE ADS MEGA GREEN WT PIPE.

MANUFACTURER'S SPECIFICATIONS.

DURING STORM EVENTS. ENGINEER RECOMMENDS THAT OWNER PUT IN PLACE INSPECTION AND MAINTENANCE REQUIREMENTS SCHEDULED TO OCCUR MONTHLY AND AFTER EACH STORM EVENT.

NON NON

REVISIONS ADDENDUM 002

DRAWN BY REVIEWED BY FCA 12/09/2015 PROJECT NO 15-0074

DRAWING NAME STORM DRAIN 1 OF 2

SHEET NO CG-501

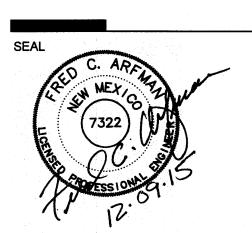
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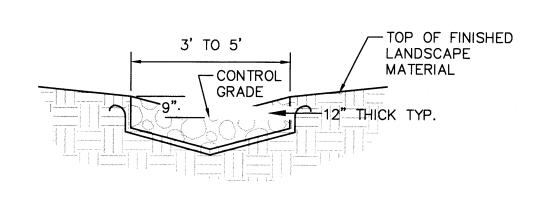
DATE PROJECT NO 15-0074

DRAWING NAME

STORM DRAIN 2 OF 2

Consulting Engineering Associates 128 Monroe Street N.E. Albuquerque, New Mexico 87108

SHEET NO CG-502



 VARY FRACTURED FACE ROCK SIZE BETWEEN 4" AND 8" DIA. (AVG.=6").

CUT PIPE — FLUSH WITH CONCRETE.

-F.F. ROCK TRANSITION

GENERAL NOTES

EDGING TOOL.

ALL SIDES

CONCRETE HEADWALL @ 8"Ø STORM DRAIN OUTFALL

SEE SHEETS CG-501 AND CG-502 FOR LOCATIONS

PLACE GEOTEX 501 NON-WOVEN GEOTEXTILE (O.E.) BENEATH ALL EROSION PROTECTION.

3' WIDE X 3'-

LONG X 12"
THICK FRACTURED
FACE ROCK
EROSION
CONTROL.

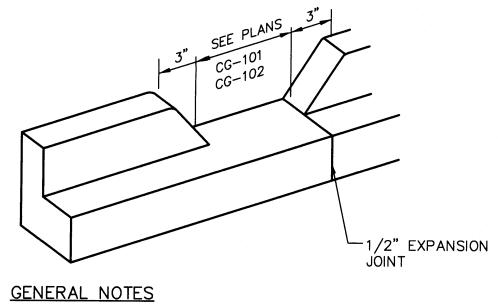
1. EDGES SHALL BE SHAPED WITH A 3/8"

2. 3000 PSI CONCRETE OVER 95% COMPACTED SUBGRADE.

ROCK SWALE AND ROCK EROSION PROTECTION

SCALE: N.T.S.

SCALE: N.T.S.

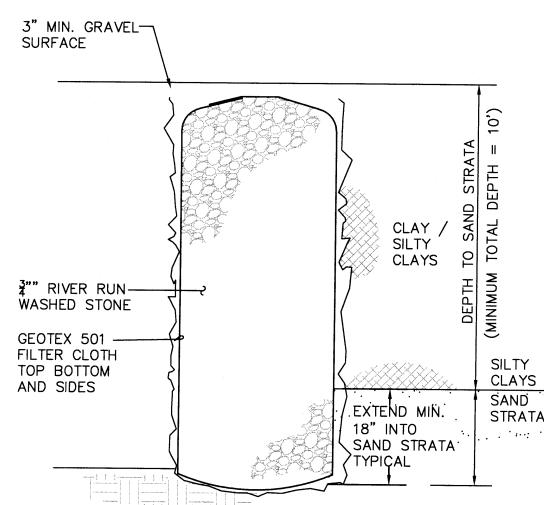


EDGES NOT SPECIFICALLY DIMENSIONED SHALL BE SHAPED WITH A 3/8" EDGING TOOL.

CURB OPENING

SCALE: N.T.S.

SCALE: N.T.S.



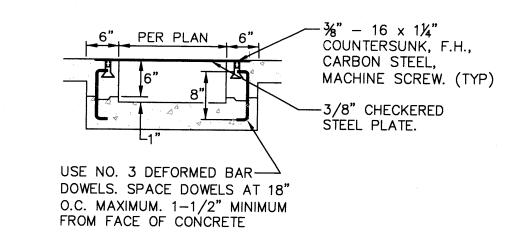
PERCOLATION TRENCH

18" WIDE X 48" LONG X DEPTH SHOWN (TYPICAL)

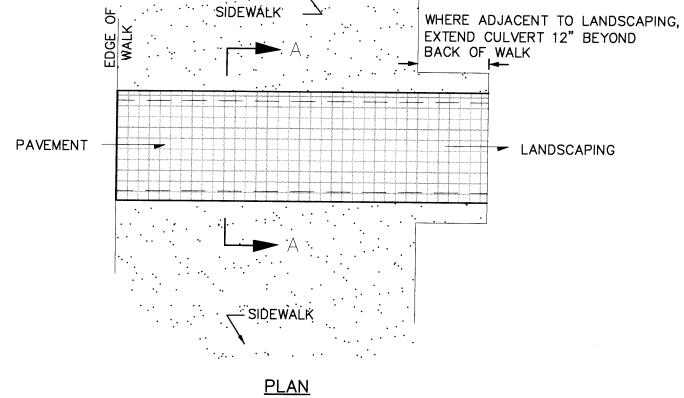
SCALE: N.T.S.

WELD 1/8" THICK, 1/8" MIN.
DIAMETER OVER ALL SCREWS.
COMPLETELY COVER SCREW
HEADS. GRIND EDGES SMOOTH.

FOR SECURING PLATE USE 1"X5" S.S. ROD ANCHOR, "RED HEAD MULTI-SET II SRM-38 ANCHOR" OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS AT MAX. 24" O.C., A MINIMUM OF 2 PER SIDE AND ONE WITHIN 6" OF EACH END.



SECTION A-A



CONSTRUCT PER C.O.A. STD. DWG. 2236 WITH MODIFICATIONS AS SHOWN ON THIS DETAIL

COVERED SIDEWALK CULVERT

SCALE: N.T.S.

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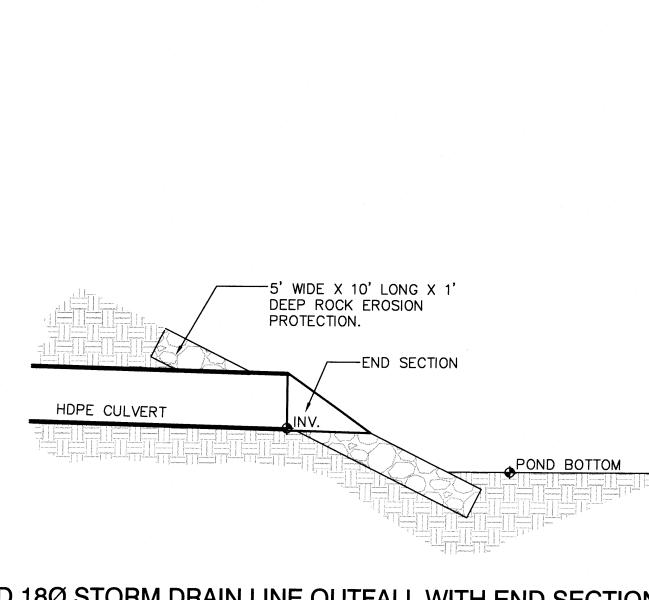
REVISIONS ADDENDUM 002 REVIEWED BY FCA 12/09/2015 PROJECT NO 15-0074

DRAWING NAME DRAINAGE DETAILS

CG-503

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128 Monroe Street N.E. Albuquerque, New Mexico 87108 Ph. 505-268-8828 www.iacivil.com



12"Ø AND 18Ø STORM DRAIN LINE OUTFALL WITH END SECTIONS

SEE SHEETS CG-501 AND CG-502 FOR LOCATIONS