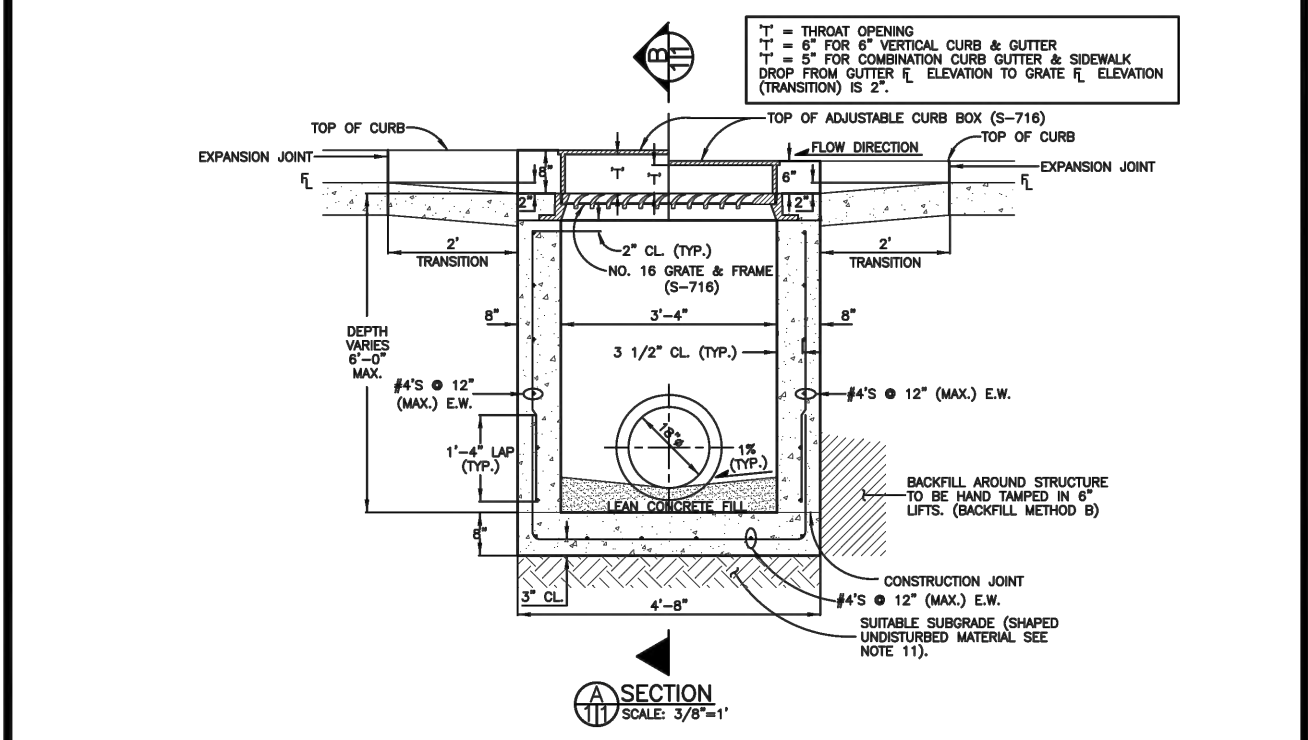
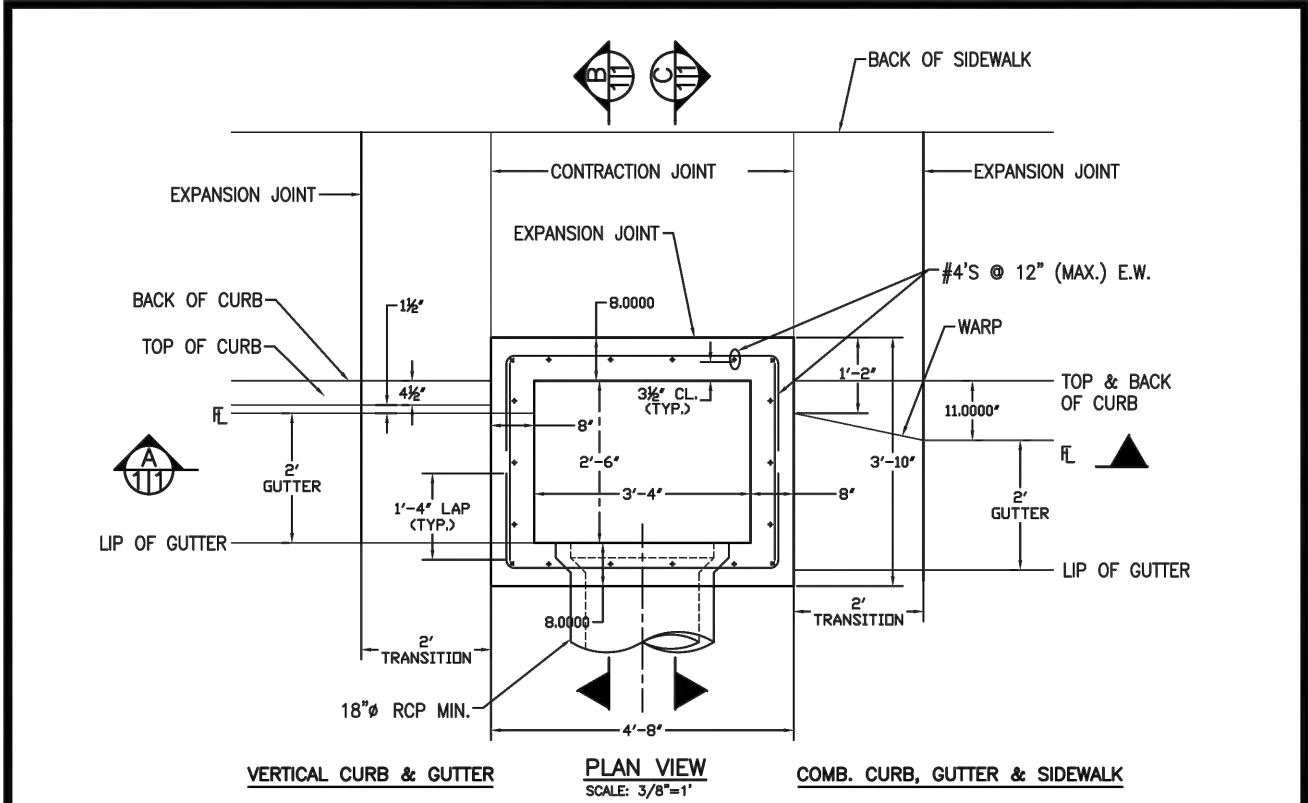
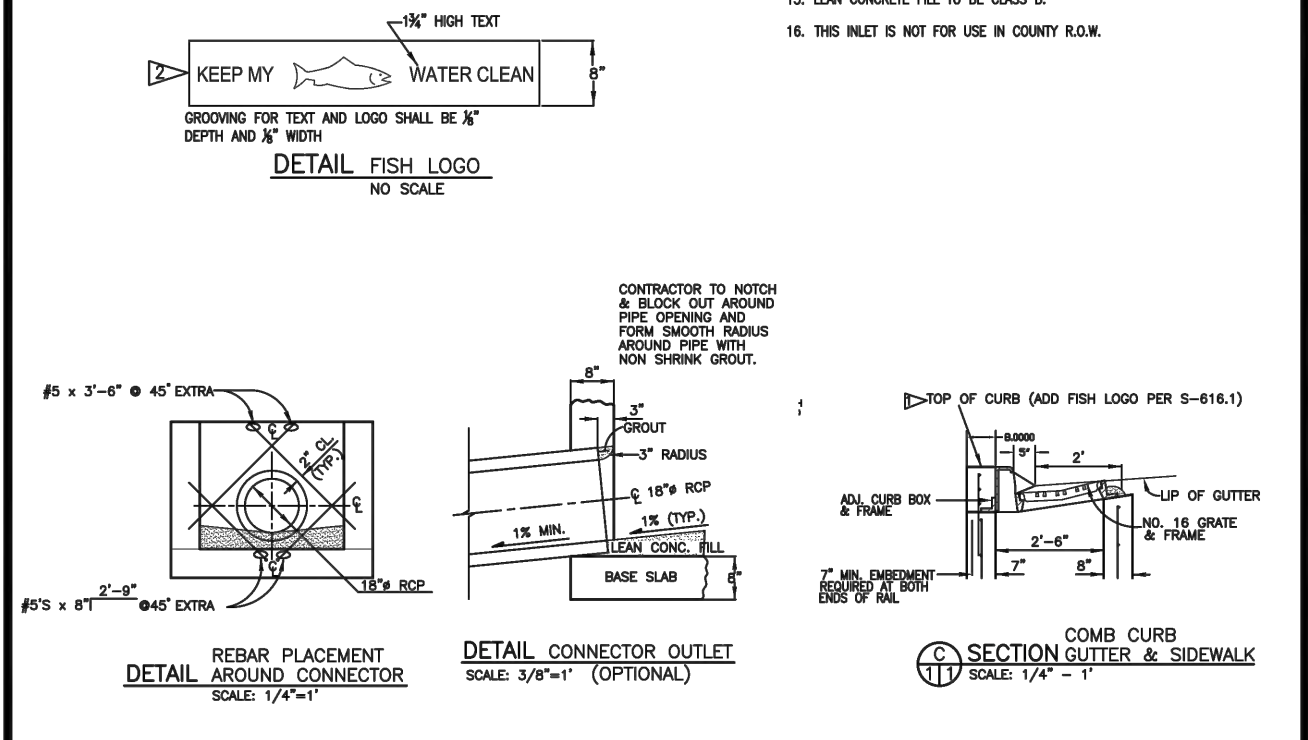
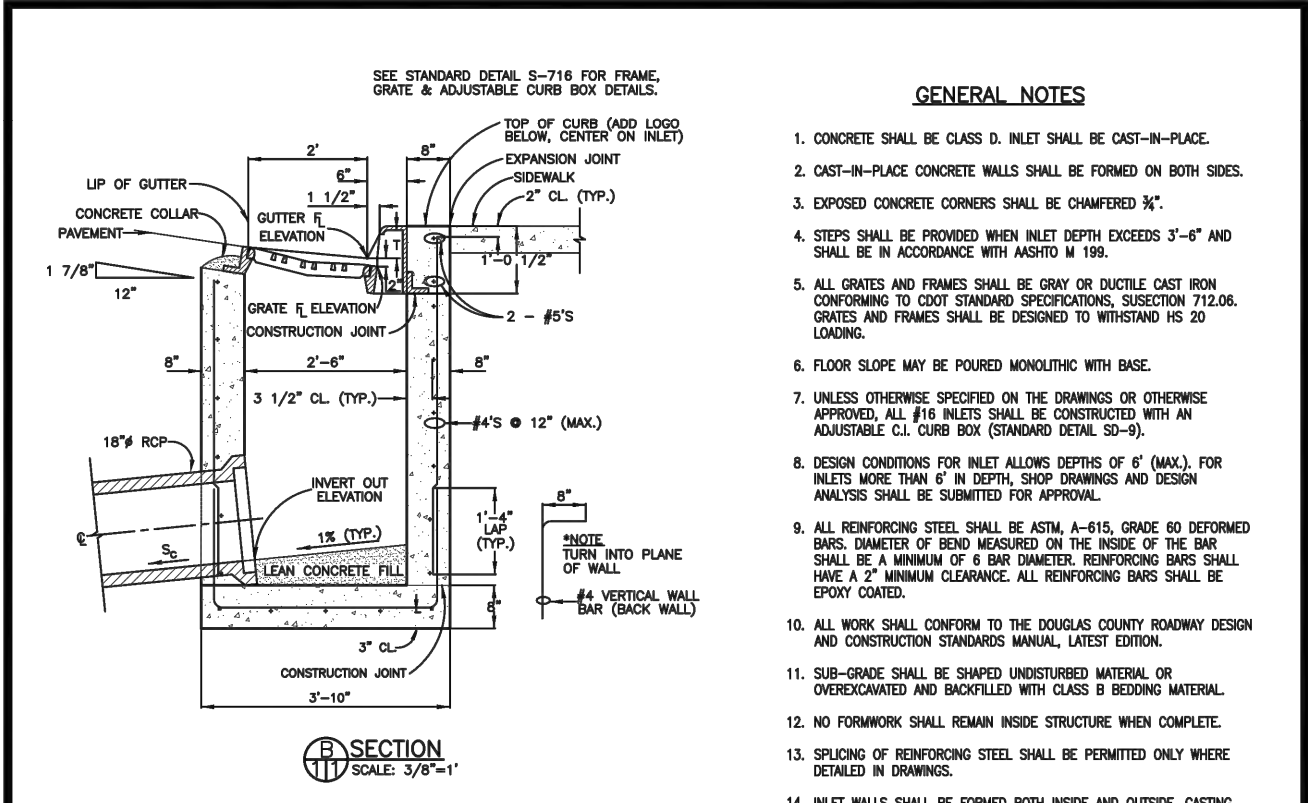


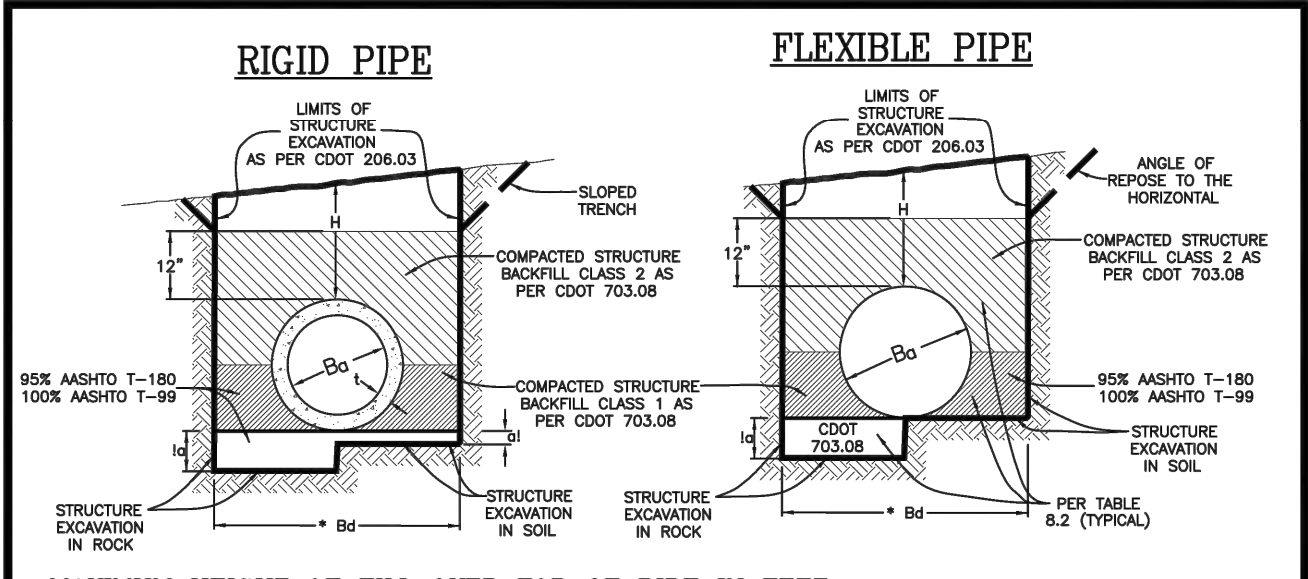
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REFERENCE:	COMBINATION INLET TYPE 13/ DENVER TYPE 16 - SINGLE NO. 16 OPEN THROAT INLET ADJUSTABLE CURB BOX	Issued: 05/2013
CITY AND COUNTY OF DENVER DRAWING NUMBER S-616.1	DOUGLAS COUNTY COLORADO	Drawing No. SP.38a



REFERENCE:	COMBINATION INLET TYPE 13/ DENVER TYPE 16 - SINGLE NO. 16 OPEN THROAT INLET ADJUSTABLE CURB BOX	Issued: 05/2013
CITY AND COUNTY OF DENVER DRAWING NUMBER S-616.1	DOUGLAS COUNTY COLORADO	Drawing No. SP.38b



MAXIMUM HEIGHT OF FILL OVER TOP OF PIPE IN FEET

REINFORCED CONCRETE		STEEL - 2 2/3" x 1/2" CORRUGATIONS	
Depth (ft)	Width (ft)	H ABOVE TOP OF PIPE IN FEET	THICKNESS IN INCHES
18-24	4-7	1-15	.064
24-30	7-10	15-20	.079
30-36	10-13	20-25	.109
36-42	13-16	25-30	.138
42-48	16-19	30-35	.168
48-54	19-22	35-40	.198
54-60	22-25	40-45	.228
60-66	25-28	45-50	.258
66-72	28-31	50-55	.288
72-78	31-34	55-60	.318
78-84	34-37	60-65	.348

GENERAL NOTES:
1. CONCRETE SHALL BE CLASS II INLET SHALL BE CAST-IN-PLACE.
2. CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
3. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 90°.
4. STEPS SHALL BE PROVIDED WHEN INLET DEPTH EXCEEDS 3'-0" AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
5. ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON CONFORMING TO CDOT STANDARD SPECIFICATIONS, SECTION 712.02. GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND HIS 20 LOADING.
6. FLOOR SLOPE MAY BE POURED MONOLITHIC WITH BASE.
7. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS OR OTHERWISE APPROVED, ALL INLET WALLS SHALL BE CONSTRUCTED WITH AN ADJUSTABLE CURB BOX (STANDARD DETAIL S-716).
8. DESIGN CONDITIONS FOR INLET ALLEYS DEPTH OF 6" (MAX.) FOR INLETS MORE THAN 6" IN DEPTH, SEE STANDARD SPECIFICATIONS, SECTION 712.02. ANALYSIS SHALL BE SUBMITTED FOR APPROVAL.
9. ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60 DEFORMED BARS. DIAMETER OF BARS MEASURED ON THE INSIDE OF THE BAR SHALL BE A MINIMUM OF #8 BAR DIAMETER. REINFORCING BARS SHALL HAVE A 2" MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
10. ALL WORK SHALL CONFORM TO THE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARD MANUAL, LATEST EDITION.
11. SUB-GRADE SHALL BE SHAVED UNDISTURBED MATERIAL OR OVERLAPPED AND BACKFILLED WITH CLASS II BEDDING MATERIAL.
12. NO FORMWORK SHALL REMAIN INSIDE STRUCTURE WHEN COMPLETE.
13. SPLACING OF REINFORCING STEEL SHALL BE PERMITTED ONLY WHERE DETAILED IN DRAWINGS.
14. INLET WALLS SHALL BE FORMED BOTH INSIDE AND OUTSIDE. CASTING OF SIDEWALLS AGAINST EARTH IS NOT PERMITTED.
15. LEAN CONCRETE FILL TO BE CLASS II.
16. THIS INLET IS NOT FOR USE ON COUNTY R.O.W.

RCP DESIGN CRITERIA
Safety Factor = Per ASTM C76
Soil Weight = 120 lb. per cu. ft.
Bedding = Type 2

CSP DESIGN CRITERIA
3"x1" CORRUGATIONS: 60 TO 84 Pipe
shall be .064" thick (16 gauge) to H=40 ft.

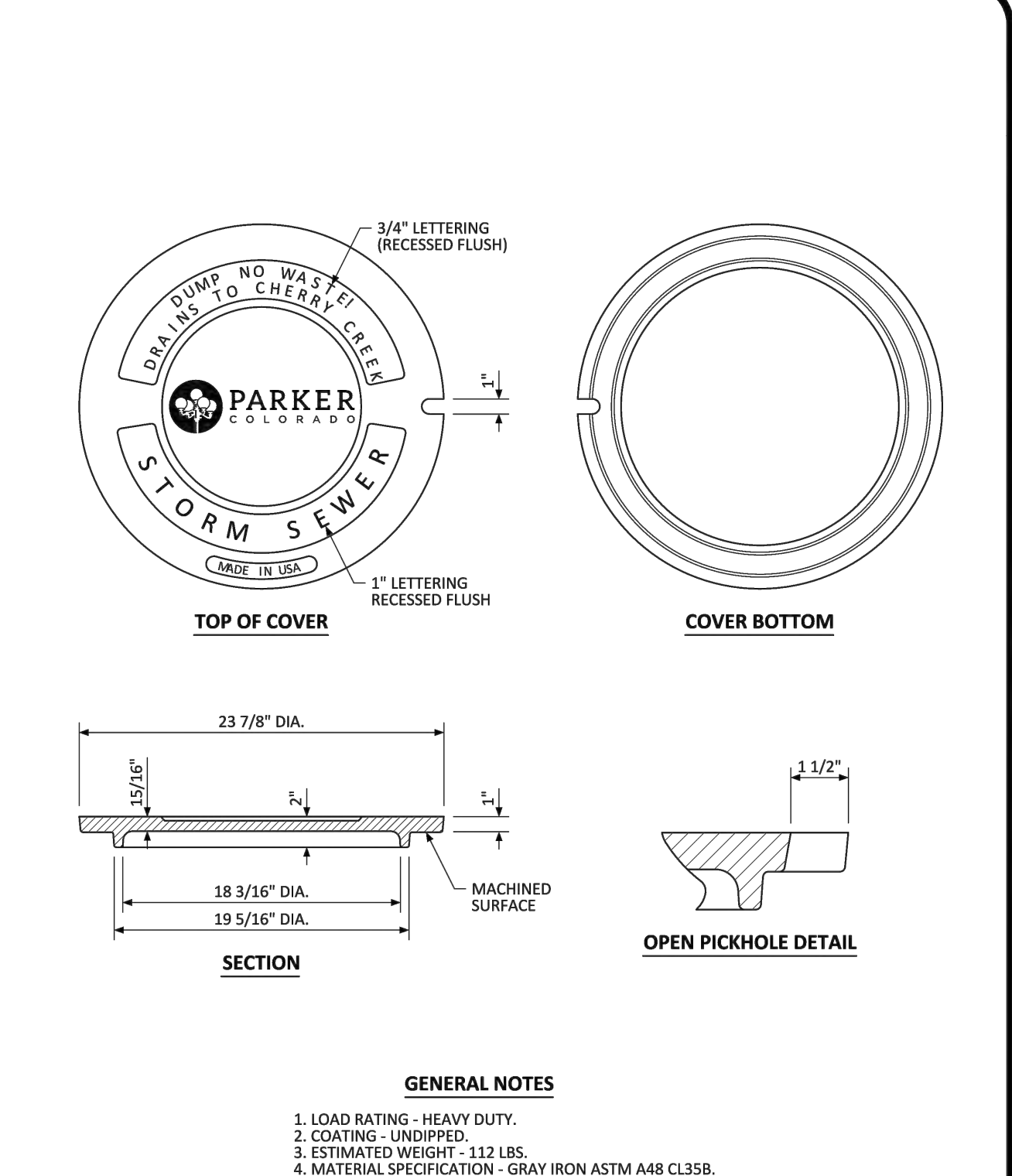
ALL UTILITY DEPT'S MUST BE NOTIFIED WITH CLM. SEE DOUGLAS COUNTY ROADWAY DESIGN AND CONSTRUCTION STANDARD MANUAL FOR SPECIFIC DETAILS.

NOTE: All trenching shall comply with all State, Federal and O.S.H.A. safety requirements. It will be the responsibility of the Contractor to meet all safety requirements.

REFERENCE:	PIPE INSTALLATION IN TRENCH	Issued: 05/2013
CITY AND COUNTY OF DENVER DRAWING NUMBER S-616.1	DOUGLAS COUNTY COLORADO	Drawing No. SP.46a

- NOTES:
- This trench backfill detail specifies requirements in addition to those specified in the latest edition of the Colorado Department of Transportation's Standard Specifications for Road and Bridge Construction.
 - A construction traffic control plan shall be submitted to and approved by Douglas County prior to issuance of construction permits in the County right-of-way.
 - Trench shall be braced or shored as necessary for the safety of the workers and protection of other utilities or structures in accordance with applicable local, state and federal safety regulations.
 - The trench width shall be confined to those minimum dimensions, which will permit proper installation and acceptable pipe loading, as established by current local, state and federal safety regulations.
 - Backfill compaction requirements: Minimum density will be determined in accordance with AASHTO T 99 or T 180 as defined by CDOT Standard Specifications Section 203.07 and CDOT 703.03. Except for CLSM.
 - Full depth asphalt can be used as an alternative to base course.
 - Pavement edges shall be saw-cut. Edges shall be tack coated prior to patching.
 - All storm sewers shall be constructed so that a minimum cover is maintained to withstand AASHTO HS-20 loading on the pipe. The minimum cover to withstand live loading depends upon the pipe size, type and class, and soil bedding condition, but shall be not less than 1-foot at any point along the pipe. Other factors that affect the depth of the pipe are hydraulic grade line elevations, inlet depths, adjacent utilities or utility crossings, including water and sewer services lines along residential streets, and connections to existing storm sewer systems. The roadway subgrade, which supports the pavement section is typically plowed to a certain depth, moisture treated and compacted prior to the placement of the sub-base, base course, and surfacing. There are also instances where the subgrade material must be excavated and replaced or treated to a certain depth to mitigate swelling soils. These efforts can impact the storm sewer system if it has not been designed with adequate depth. The design engineer shall use the best information available, including pavement design or soils reports (if available) to ensure that storm sewer pipes have adequate depth.
 - Changes in design criteria will require compensating change in pipe design.
 - When pipe sewer is to be extended or replaced with pipe of different material, the connections shall conform to the detail shown on plans or be approved through Douglas County Engineering.
 - When two or more conduits are laid side-by-side, they shall be placed so that they are 1/2 outside diameter, or 1/2 outside span, or 3' apart, whichever is less. However, if end sections are used, the minimum spacing shall be 1' between the outside edge of end sections.
 - TRENCH INSTALLATION (per OSHA Standards):
 - Trenches over 5 feet in depth shall be either shored or the trench walls shall be sloped no steeper than 3:1 to the angle of repose. If sloped, the bottom of the slope shall be a minimum of 1 foot above the top of the pipe.
 - Shoring will be required when the bottom of the slope is more than 3 feet above the bottom of the trench.
 - All sheeting or shoring to be removed.
 - CLSM may be used in place of Structural Backfill.
 - CLSM shall not exceed a strength over 1000 p.s.i.
- REFERENCE: Douglas County Drainage Manual and Colorado Department of Transportation "M" Standards.

REFERENCE:	PIPE INSTALLATION IN TRENCH NOTES	Issued: 05/2013
CITY AND COUNTY OF DENVER DRAWING NUMBER S-616.1	DOUGLAS COUNTY COLORADO	Drawing No. SP.46b



REFERENCE:	MANHOLE COVER STANDARD DETAIL	DATE: NOVEMBER 2020
CITY AND COUNTY OF DENVER DRAWING NUMBER S-616.1	PARKER COLORADO	DETAIL: 33 1 OF 1

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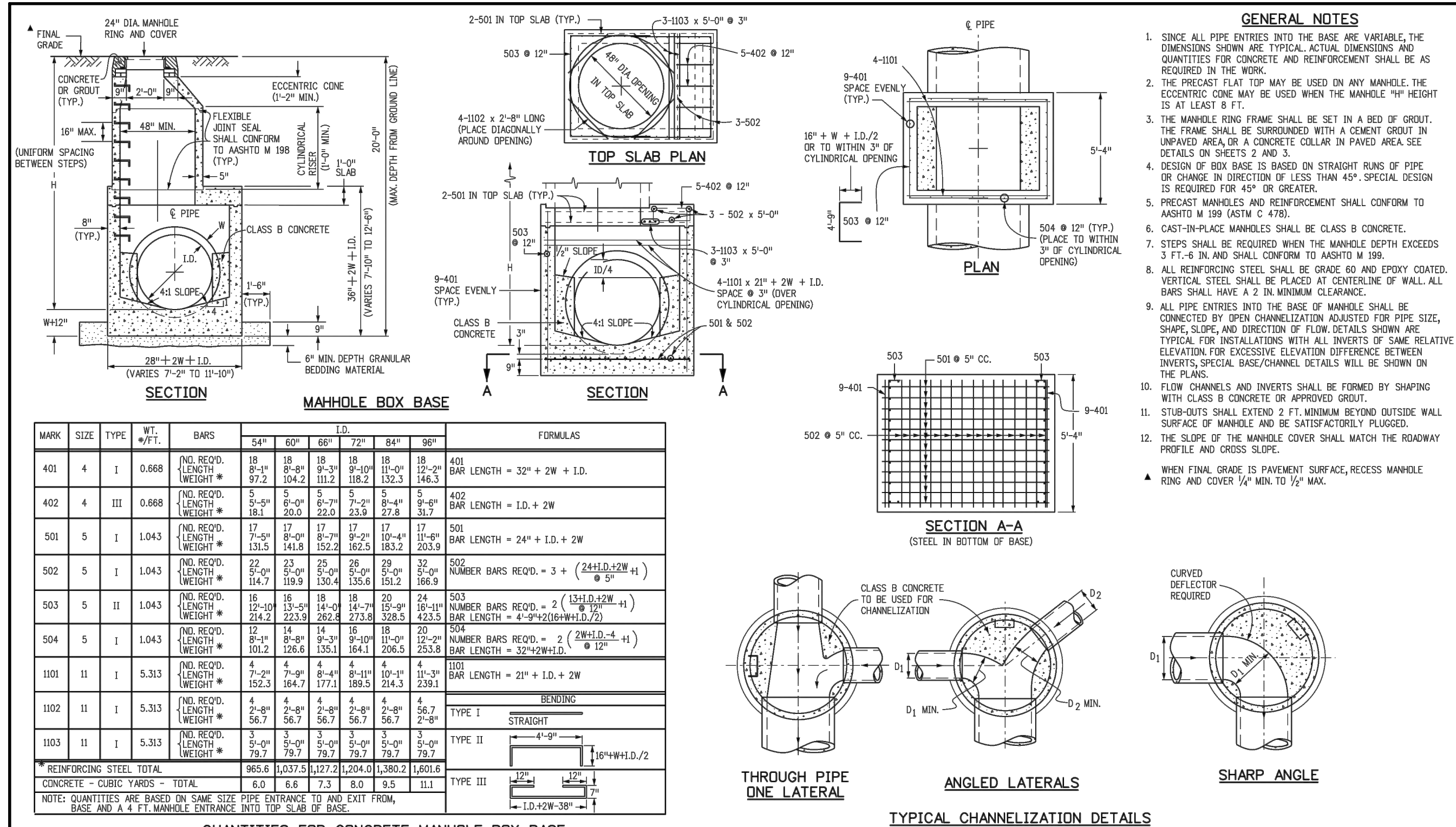
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REV	REVISION DESCRIPTION	DATE	CHKD	APPD

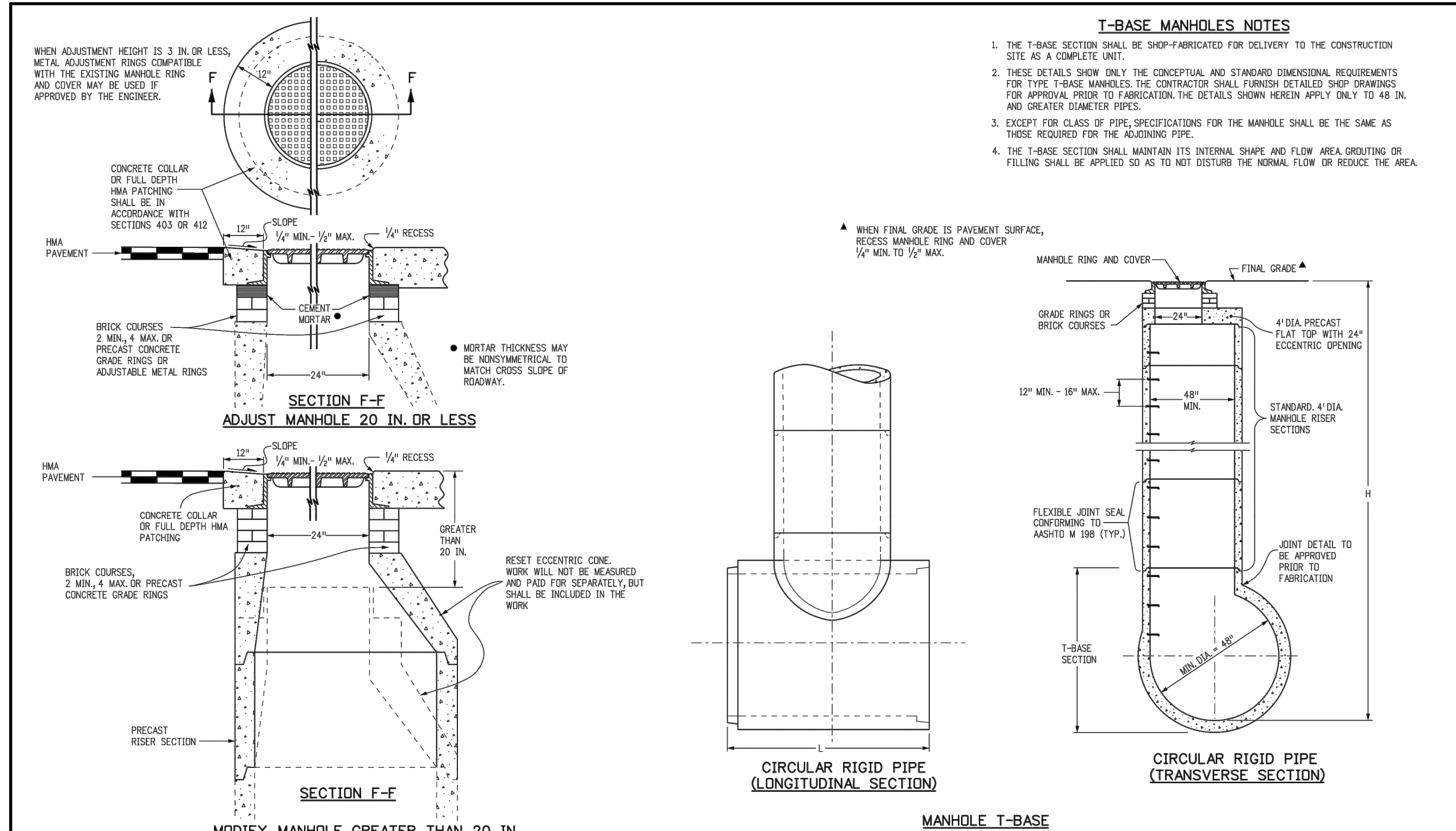
COMPARK VILLAGE SOUTH
PRIVATE IMPROVEMENT
CONSTRUCTION PLANS
STANDARD DETAIL

JOB NUMBER	65120350
DATE	5/12/2022
SHEET	C6.1
FOR AND ON BEHALF OF MERRICK & COMPANY	44

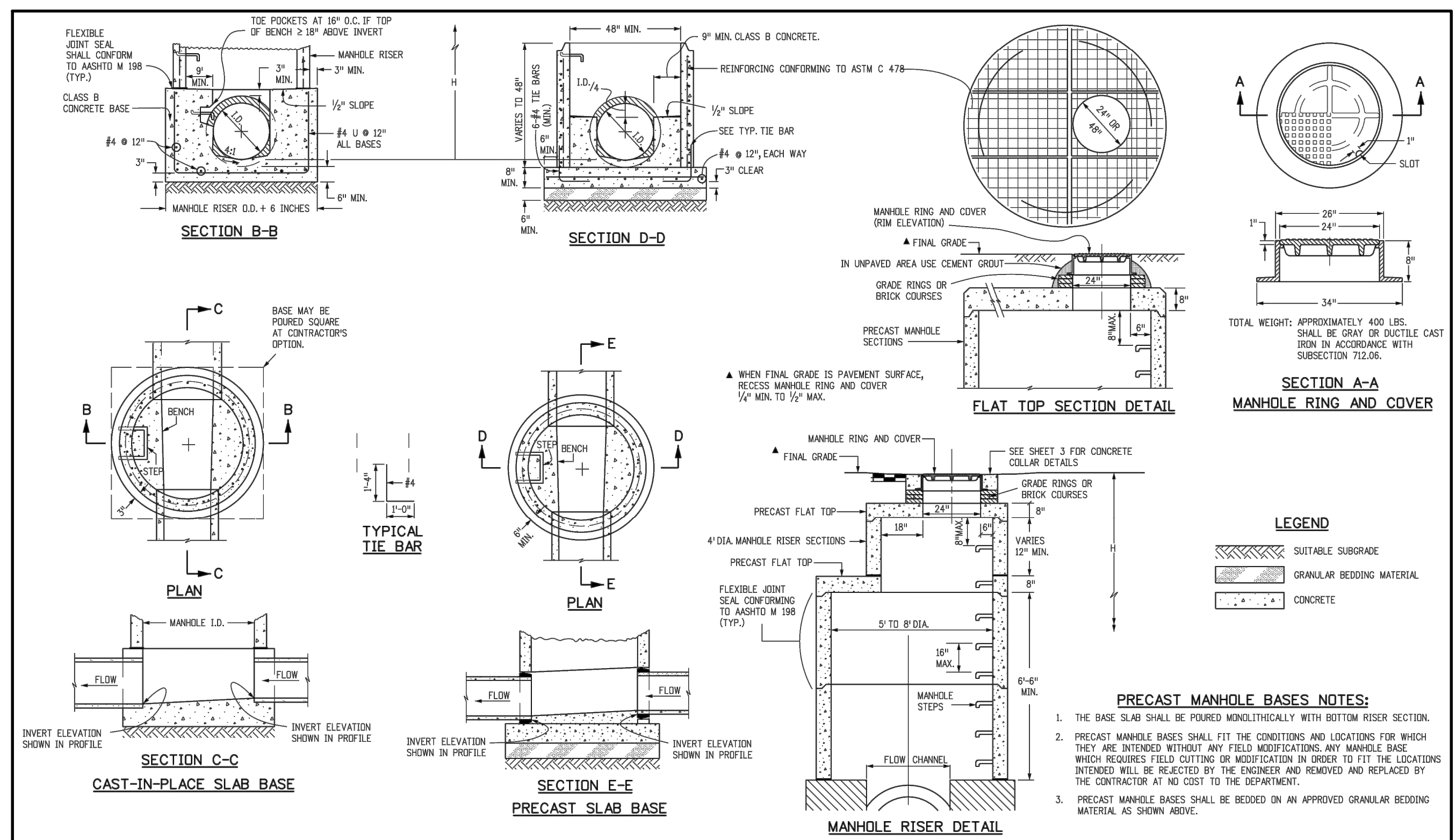
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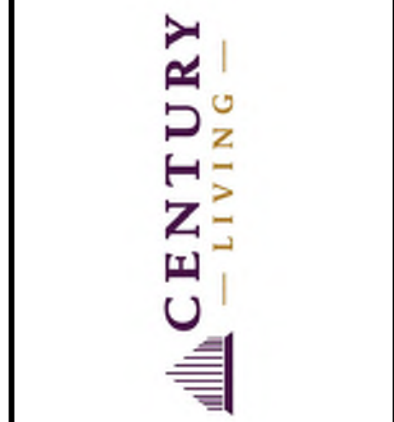
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COMPARK VILLAGE SOUTH
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