STORMWATER GENERAL NOTES

- 1. BEDDING FOR ALL STORM DRAIN SHALL BE PER THE STANDARD STORM DRAIN BEDDING DETAILS DETAILS 6-6 AND 6-7 FOR REINFORCED CONCRETE PIPE AND POLYWRAPPED DUCTILE IRON PIPE.
- 2. ALL STORM DRAINAGE CONSTRUCTION SHALL CONFORM TO THE CITY OF GREELEY'S MOST RECENT STORM DRAINAGE SPECIFICATIONS. A COPY OF THE SPECIFICATIONS MAY BE OBTAINED FROM THE CITY OR FOUND ON THE CITY'S WEB PAGE GREELEYGOV.COM.
- 3. RCP SHALL HAVE FLEXIBLE GASKET MATERIAL (WATER TIGHT RUBBER GASKETS) MEETING ASTM C443 AND TYPE 4-G BELL AND SPIGOT JOINTS. DUCTILE IRON PIPE SHALL BE POLYWRAPPED IN ACCORDANCE WITH AWWA STANDARD C-105.
- 4. BACKFILL MATERIAL MAY BE LOCAL SITE MATERIAL THAT IS WELL-GRADED, NON-COHESIVE GRANULAR MATERIAL FREE OF ROCKS, FROZEN LUMPS, FOREIGN MATERIAL OR STONES GREATER THAN 3" IN ANY DIMENSION, AGGREGATE BASE COURSE, OR FLOWFILL. REMOVE ALL DEBRIS INCLUDING SODA CANS, RAGS, PIPE BANDING MATERIAL, ETC. FROM THE PIPE TRENCH BEFORE BACKFILLING.
- 5. ALL AREAS IMPACTED BY THE CONSTRUCTION SHALL BE CLEARED OF PROJECT GENERATED DEBRIS BY THE CONTRACTOR AT THE EARLIEST OPPORTUNITY, BUT IN NO CASE SHALL ANY ROADS OR WALKWAYS BE LEFT UNCLEARED AFTER THE COMPLETION OF THE DAY'S WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY EQUIPMENT AND MATERIAL TO SATISFACTORILY CLEAN THE ROADWAYS.

CALL UTILITY NOTIFICATION CENTER OF COLORADO

1-800-922-1987

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

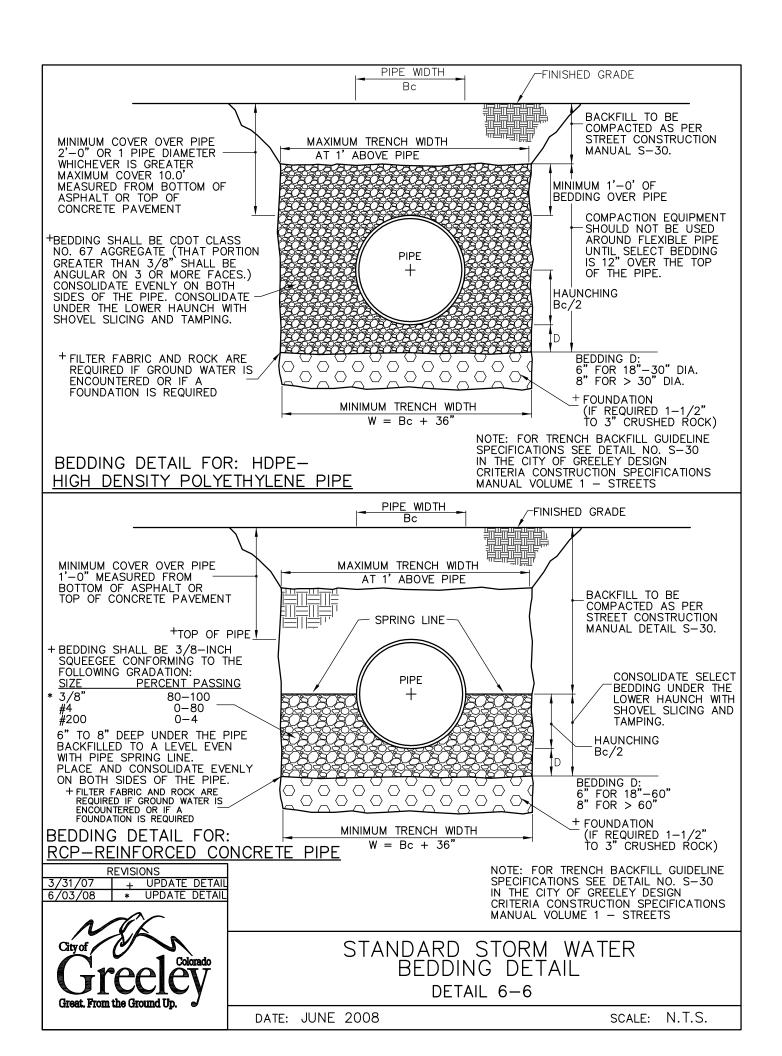
REVISIONS
3/31/07 | + NEW DETAIL



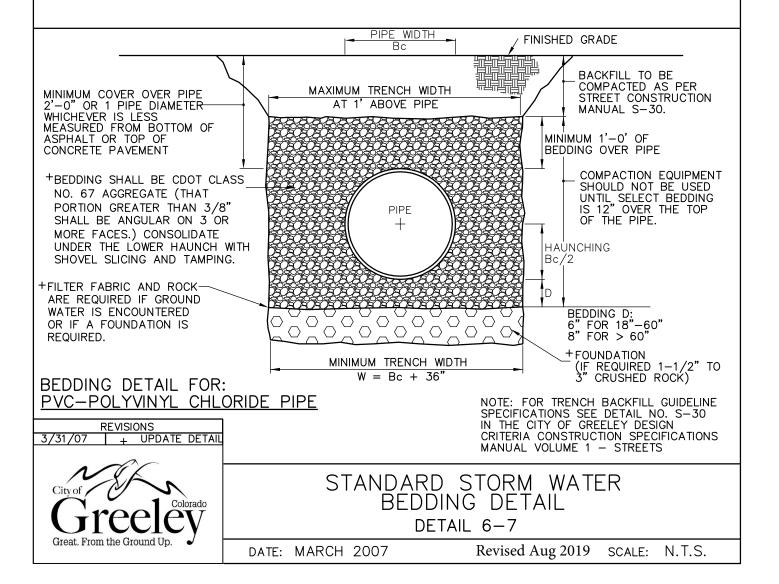
STORMWATER GENERAL NOTES

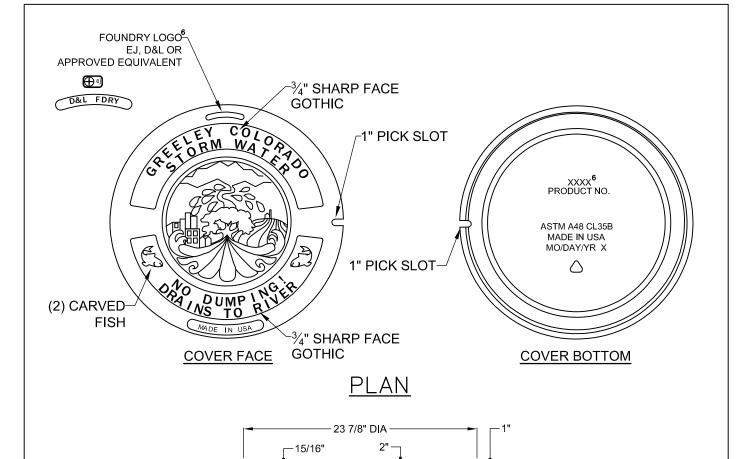
DETAIL 1-1

DATE: MARCH 2007 SCALE: N.T.S.



REDACTED SECTION-THIS SECTION PREVIOUSLY HAD BEDDING DETAILS FOR CORREGATED METAL PIPE (CMP). AS OF AUGUST, 2019, CMP IS NO LONGER AN AUTHORIZED MATERIAL.





SECTION

- 18 3/16" DIA -

GENERAL NOTES

- 1. COVER SHALL BE GRAY IRON, MANUFACTURED PER AASHTO M105-06/ASTM A48 CLASS 35B AND CONFORM TO AASTHO M306-07.
- 2. COVER SHALL BE NONPERFORATED, WITH LETTERING AS SHOWN, CAST ON THE TOP OF THE LID FOR STORMWATER MANHOLES.
- 3. COVER SHALL BE BOLTED IF SPECIFIED BY THE PUBLIC WORKS DEPARTMENT. BOLTS SHALL BE STAINLESS STEEL 3/8" DIAMETER HEX BOLTS.
- 4. ACCEPTED FOUNDRY PRODUCTS MEETING THESE SPECIFICATIONS INCLUDE:
 EAST JORDAN, 2408A SERIES COVER, PRODUCT NUMBER 00240890

 - D&L SUPPLY, PRODUCT NUMBER A-1043-59
- 5. THIS COVER SHALL BE USED ON ALL STORMWATER MANHOLES AND TYPE R INLETS. COVERS READING "STORM SEWER" OR "SEWER" ARE NOT ACCEPTABLE.
- 6. OTHER FOUNDRIES MAY PRODUCE THIS COVER. THE CITY MUST APPROVE THE PRODUCT DRAWING AND MANUFACTURED PRODUCT AS AN APPROVED EQUIVALENT PRIOR TO APPROVAL FOR INSTALLATION.
- 7. ALL MANHOLE COVERS MUST HAVE 1" PICK SLOTS. HIDDEN PICK HOLES WILL NOT BE ACCEPTABLE.

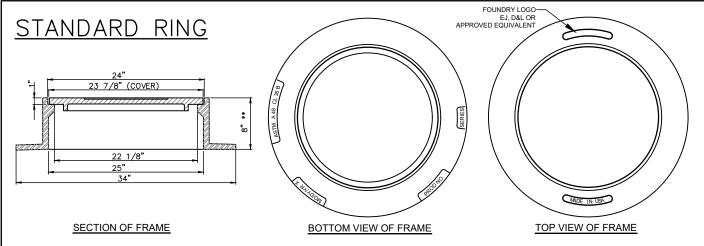
REVISIONS 3/31/07 8/18/20 UPDATE DETAIL UPDATE DETAIL City of



STANDARD STORMWATER MANHOLE COVER DETAIL 6-8A

DATE: AUGUST 2020

N.T.S. SCALE:



NOTES

- THIS RING AND COVER SHALL BE USED FOR ALL FLAT TOP AND ECCENTRIC CONE TOP MANHOLES. RING AND COVER SHALL BE HEAVY DUTY MEETING THE AASHTO M306 PROOF LOAD CRITERIA . ACCEPTED FOUNDRY PRODUCTS MEETING THESE SPECIFICATIONS INCLUDE: -EAST JORDAN - 2416Z SERIES, PRODUCT NUMBER 00241611
- -D&L SUPPLY: PRODUCT NUMBER A-1161-R2L.
 MANHOLE RINGS PRODUCED BY OTHER FOUNDRIES MAY BE ACCEPTED BY THE CITY AS AN APPROVED EQUIVALENT.
- DIMENSIONS SHALL INCLUDE A $\frac{1}{10}$ TOLERANCE **STANDARD RING HEIGHT IS 8". OTHER HEIGHTS MAY BE APPROVED SHOULD THE RING MEET SPECIFICATIONS AND ALL OTHER DIMENSIONS.
- ACCEPTED FOUNDRY PRODUCTS MEETING THESE SPECIFICATIONS WITH A HEIGHT OF 4" INCLUDE:
 - -EAST JORDAN 1244Z SERIES, PRODUCT NUMBER 00124411 -D&L SUPPLY A-1071-R1
- "REVERSIBLE" 4" FRAMES ARE NOT REQUIRED BUT MAY BE ACCEPTED. ACCEPTED REVERSIBLE FOUNDRY PRODUCTS MEETING THESE SPECIFICATIONS INCLUDE:
 -EAST JORDAN: 2425Z SERIES, PRODUCT NUMBER 00242511

 - -D&L SUPPLY: PRODUCT NUMBER A-1071-R3
- 9. SEE COVER DETAIL 6-8A FOR COVER SPECIFICATIONS.

TOP FLANGE RING EJ, D&L OR APPROVED EQUIVALENT NOTES 1. THIS RING SHALL BE USED FOR ALL TYPE R RING AND COVER SHALL BE HEAVY DUTY MEETING THE AASHTO M306 PROOF LOAD ACCEPTED FOUNDRY PRODUCTS MEETING THESE SPECIFICATIONS INCLUDE: -EAST JORDAN - 2416Z SERIES, PRODUCT NUMBER 00241611 -D&L SUPPLY - PRODUCT NUMBER B-5086-R1

TOP VIEW OF FRAME

- TOP FLANGE MANHOLE RINGS PRODUCED BY OTHER FOUNDRIES MAY BE ACCEPTED BY THE CITY AS AN APPROVED EQUIVALENT.
- DIMENSIONS SHALL INCLUDE A 16" TOLERANCE

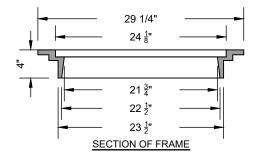
SEE COVER DETAIL 6-8A FOR COVER SPECIFICATIONS.



CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES.

| REVISIONS | |
|-----------|---------------|
| 3/31/07 | UPDATE DETAIL |
| 8/18/20 | UPDATE DETAIL |
| | |

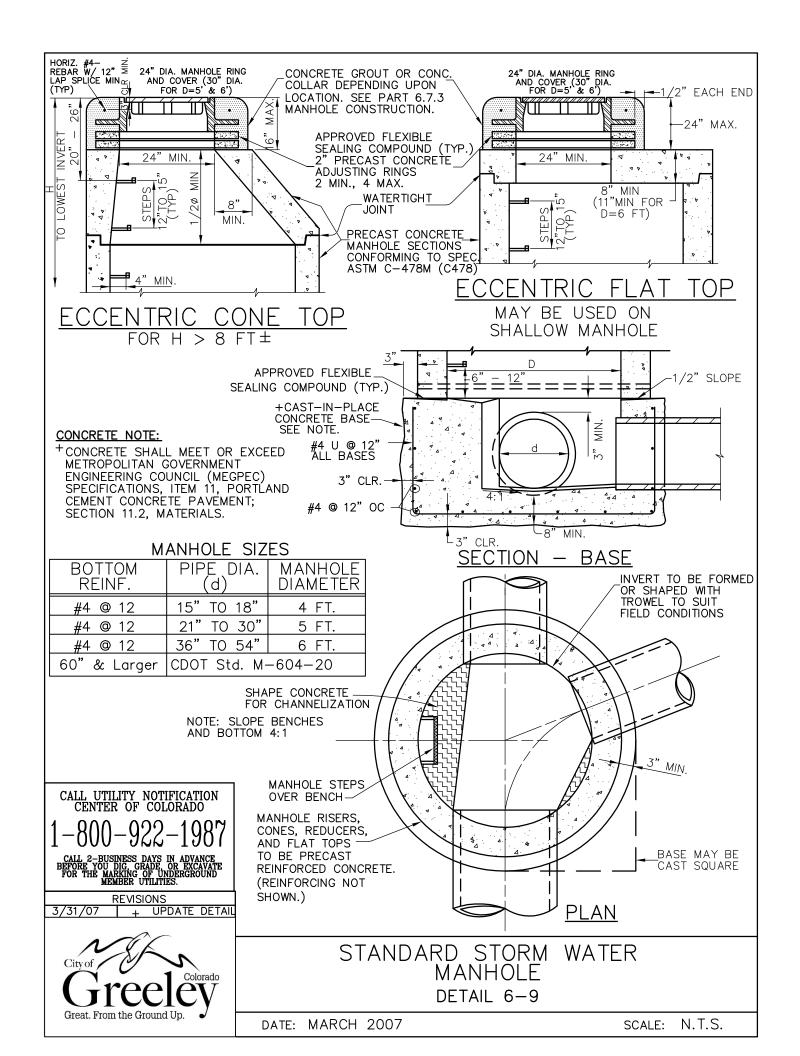


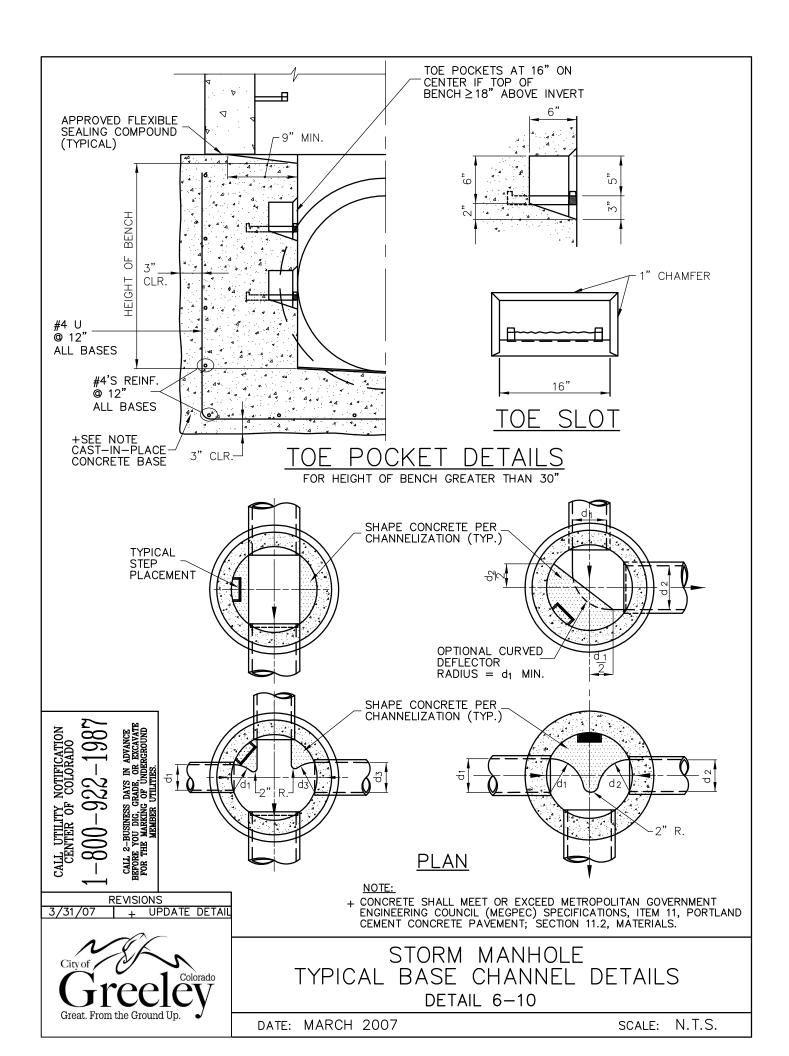


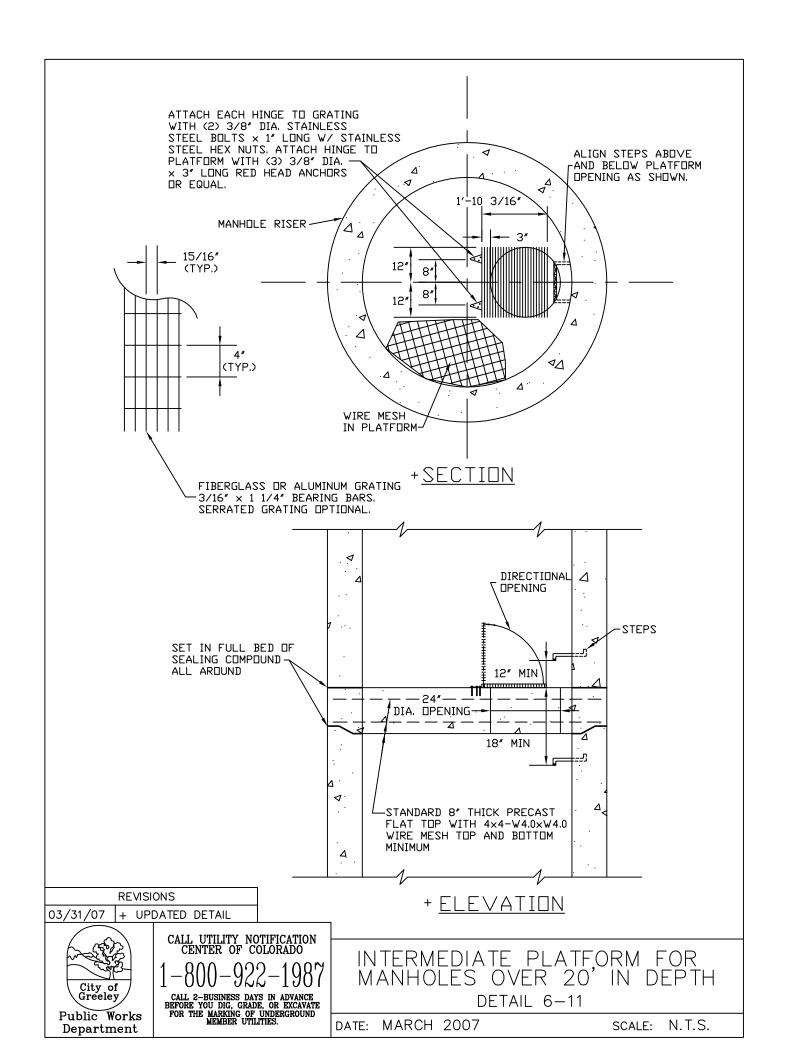
BOTTOM VIEW OF FRAME

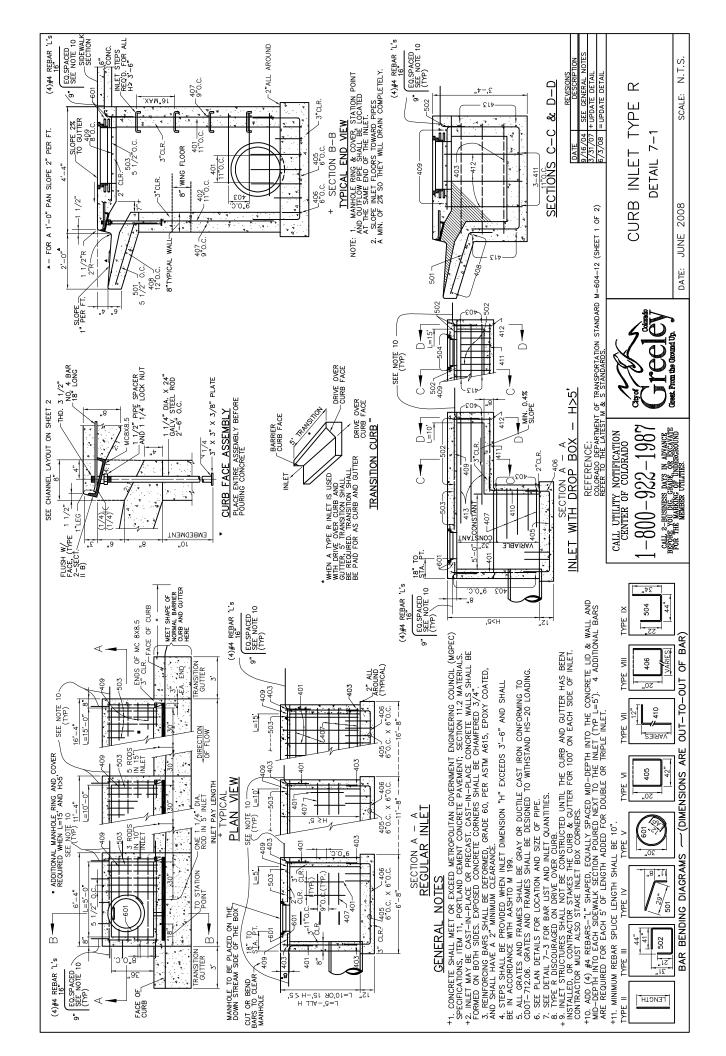
CITY OF GREELEY STANDARD STORMWATER MANHOLE FRAME RINGS DETAIL 6-8B

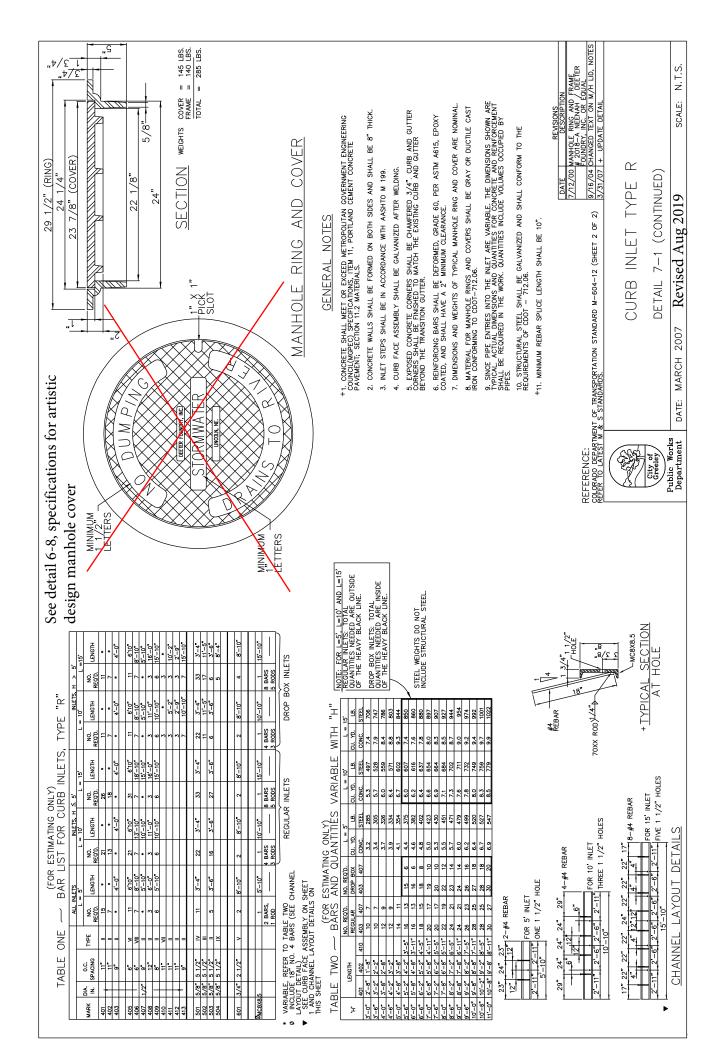
DATE: AUGUST 2020 SCALE: N.T.S.

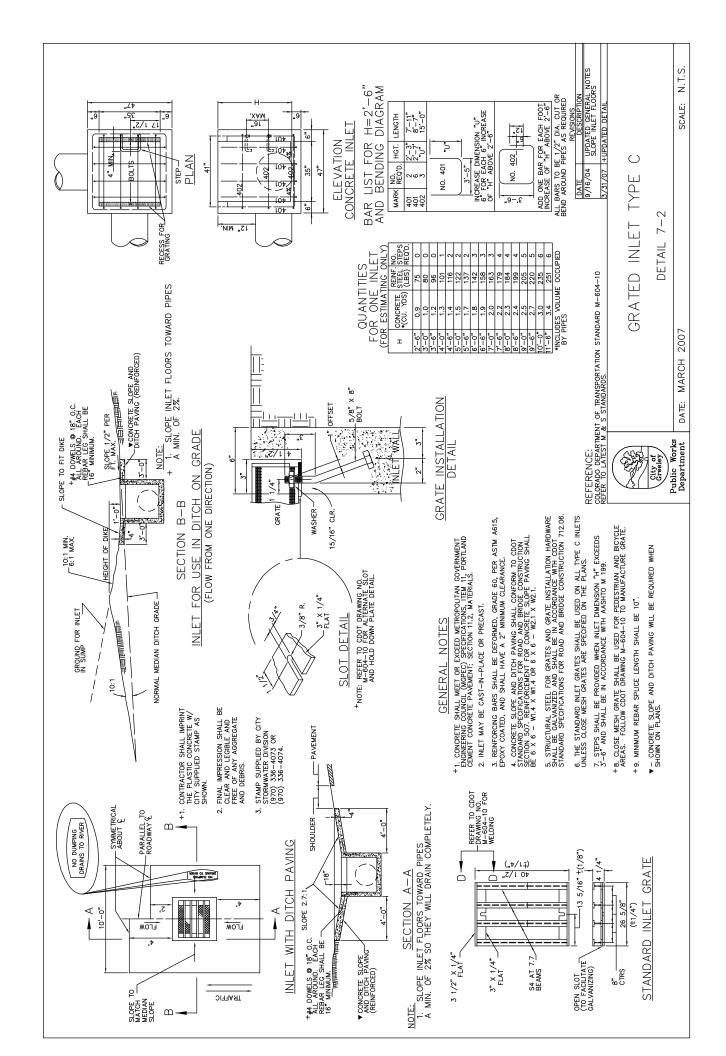


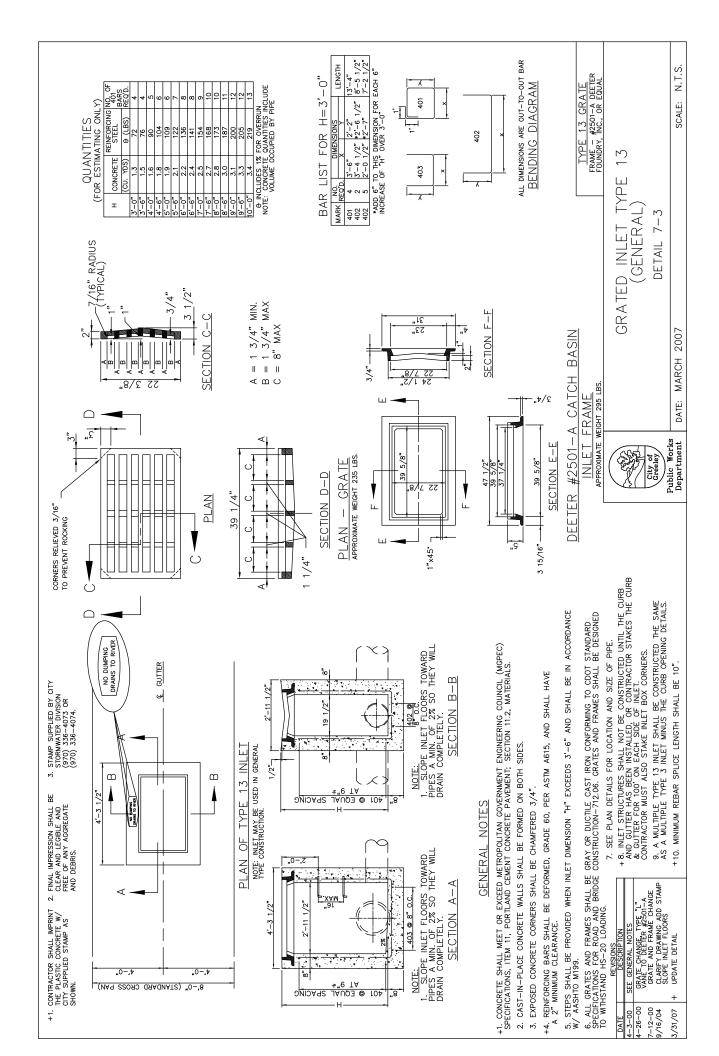


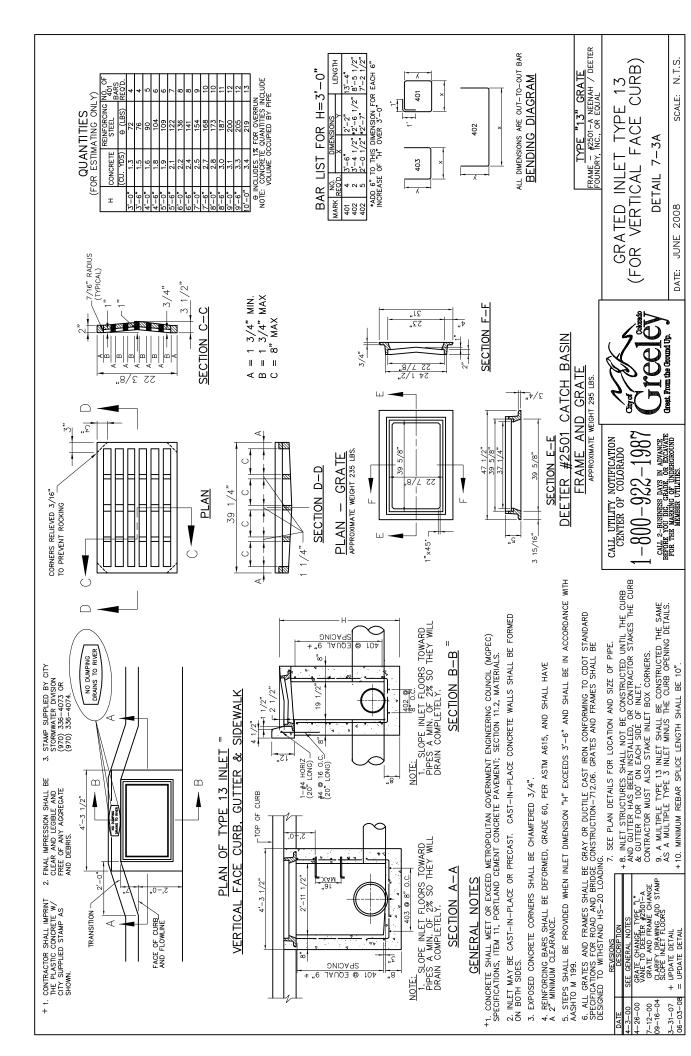


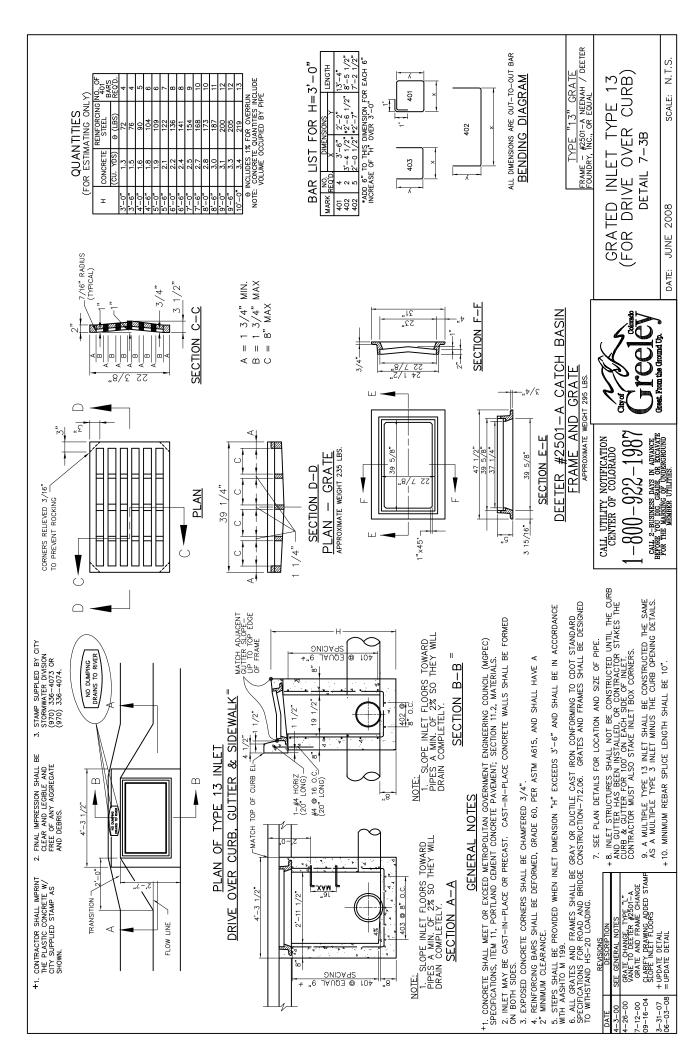


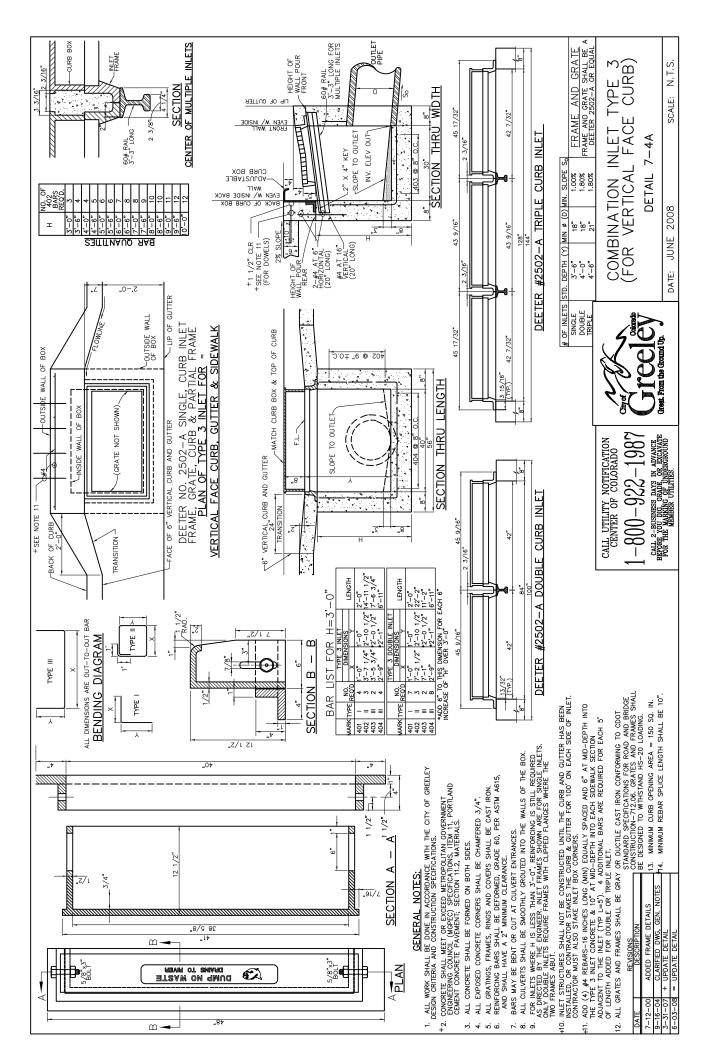


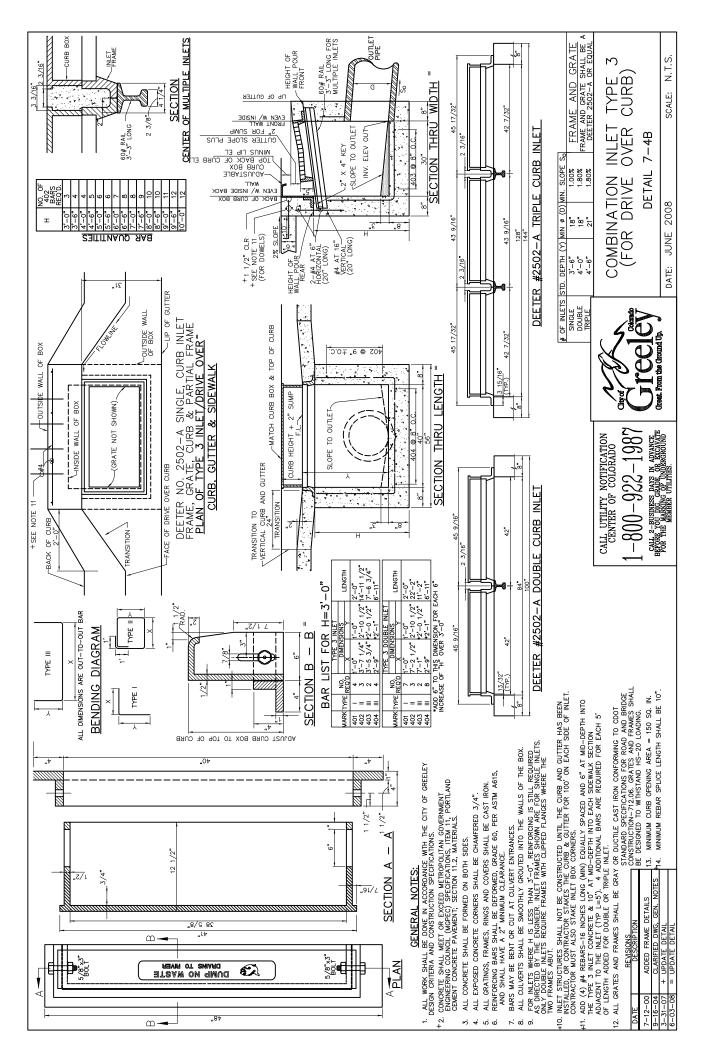


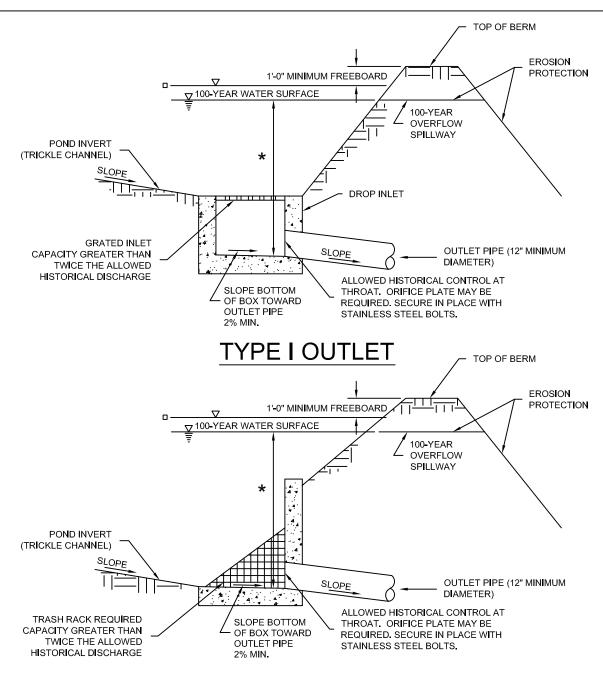












YPE II OUTLET

NOTES:

- 1. PROVIDE AT LEAST A ¾" THICK ORIFICE PLATE. ORIFICE PLATE SHALL BE HOT DIPPED GALVANIZED COATED.
 2. ALL STEEL TRASH RACKS SHALL BE HOT DIPPED GALVANIZED COATED.
- 3. A TRASH RACK SHALL BE ABLE TO CARRY A MINIMUM LOAD (LIVE LOAD) EQUAL TO 250 LB/FT^2 OR TWICE THE HYDRAULIC LOADING PLACED ON THE TRASH RACK DURING A CLOGGED CONDITION AT THE 100-YR WATER SURFACE ELEVATION, WHICH EVER IS GREATER.
- HEADWATER FOR ALLOWABLE HISTORIC DISCHARGE
- WATER SURFACE ELEVATION WHEN WATER IS FLOWING OVER THE SPILLWAY DURING A 100-YEAR STORM EVENT DURING A PLUGGED ORIFICE CONDITION.

REVISIONS 3/28/07 UPDATE DETAIL



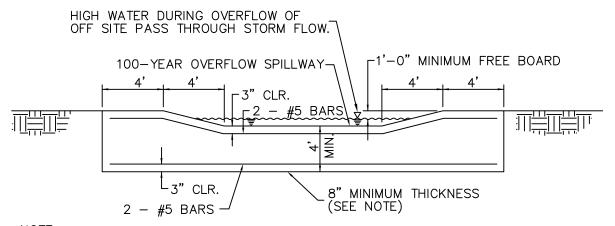
Department

CALL UTILITY NOTIFICATION CENTER OF COLORADO

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

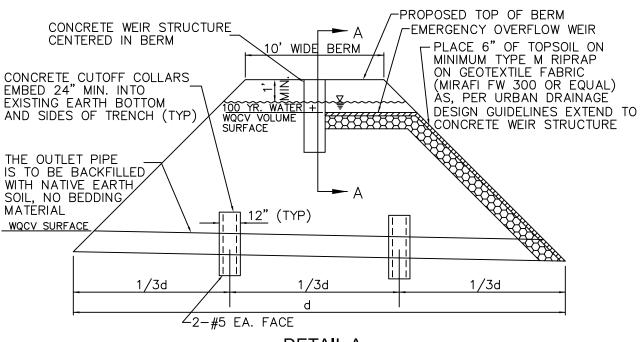
TYPE I AND TYPE II OUTLET DETAILS DETAIL 11-3

DATE: MARCH 2007 SCALE: N.T.S.



NOTE:
TRENCH FOR WEIR OUTLET STRUCTURE USING NATIVE
GROUND AS FORM WORK. CONSTRUCT WEIR 8" MINIMUM
THICKNESS. UPON COMPLETION OF TRENCHING, PLACE
TEMPERATURE STEEL AND CONCRETE IMMEDIATELY,
FORM TOP 4".

SECTION A - A CONCRETE WEIR OVERFLOW STRUCTURE



DETAIL A OUTLET AND SPILLWAY DETAILS



OUTLET AND SPILLWAY
DETAILS
DETAIL 11-7

DATE: MARCH 2007 SCALE: N.T.S.

Control Structures have been redacted as of July 2019. The established by UDFCD, Volume 3 – Construction BMPs. Previous City of Greeley standard details for Erosion City of Greeley has fully adopted standard details

NOTES CONTROL **EROSION** GENERAL

ACTI VITIES. THE CONTR ACTOR SHALL LIMIT TOPSOIL STRIPPING OPERATIONS TO WITHIN THE AREAS IN WHICH THEY WILL BE IMMEDIATELY WORKING. THE CONSTRUCTION OF UNDERGROUND UTILITIES SHALL BE INCLUDED AS A LAND DISTURBING ACTIVITY. ALL EXCAVATED MATERIAL SHALL BE PLACED WHERE SEDIMENT WILL ERODE BACK INTO THE TRENCH, ALL TRENCHES SHALL BE BACKFILLED BY THE END OF THE DAYS WORK; BACKFILL SHALL BE PERMANENTLY STABILIZED BEFORE CONSTRUCTION IS CONSIDERED CONTR ACTOR SHALL INSTALL ALL PERIMETER SEDIMENT AND EROSION CONTROL DEVICES IN ACCORDANCE WITH THE URBAN DRAINAGE FLOOD CONTROL DISTRICT (UDFCD), VOLUME 3 CONSTRUCTION BEST MANAGEMENT PRACTICES. THESE BEST MANAGEMENT PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCE, INLET PROTECTION, VTC PAD, WHEEL WASHOUT, AND SEDIMENT BASINS. BEST MANAGEMENT PRACTICES SHALL BE INSTALLED BEFORE COMMENCING ANY LAND CLEARING OR GRADING COMPLETE.

ALL DISTURBED AREAS AND SOIL STOCKPILES SHALL BE ADEQUATELY STABILIZED AS DEFINED IN UDFCD, VOLUME 3. CONSTRUCTION BEST MANAGEMENT PRACTICES. ALL DISTURBED SOILS AND SOIL STOCKPILES SHALL BE WATTERED AND MAINTAINED IN A ROUGHENED CONDITION AT ALL TIMES DURING CONSTRUCTION ACTIVITIES TO PREVENT WIND-CAUSED EROSION. ALL LAND DISTURBING ACTIVITIES WILL BE IMMEDATELY DISCONTINUED WHEN FUGITIVE DUST IMPACTS ADJACENT PROPERTIES. AS DETERMINED BY CITY INSPECTOR. PERMANENT OR TEMPORARY NATIVE SEED (SEE EROSION CONTROL STRUCTURES. - DETAIL 12.2 FOR SEEDING SPECHICATIONS) SOIL STRAILTATION SHALL BE REQUIRED WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED. IF DISTURBED AREAS OR STOCKPILES ARE NOT BROUGHT TO FINAL GRADE WITHIN 30 DAYS SOLLOWING THE INITIAL DISTURBANCE, OR RELIBERANCE, TEMPORARY STABILIZATION MEASURES SHALL BE REQUIRED. NO SOIL STOCKPILE SHALL EXCEED TEN (10) FEET IN HEIGHT. ALL SOIL STOCKPILE SIDE SLOPES SHALL NOT EXCEED A SLOPE OF 4V; 1 H.

STORM SEWER INLETS SHALL BE PROTECTED FROM THE ENTRY OF SEDIMENT-LADEN WATER. HAY LES ARE NOT RECOGNIZED BY THE CITY OF GREELEY AS AN ACCEPTABLE FORM OF EROSION CONTROL.

EACH DAYS WORK OR AFTER STORM EVENTS, AS NECESSARY. ALL TEMPORARY AND PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AS SOON AS THEIR FUNCTION HAS BEEN FULFILLED. SEDIMENT TRAPS/BASINS SHALL BE CLEANED AND REMOVED, OR STABILIZED, WHEN ALL INSPECTION OF ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL BE REQUIRED AT THE END OF EACH DAY'S WORK, WITH NECESSARY MAINTENANCE AND REPAIRS PROVIDED IMMEDIATELY. THE CITY OF GREELEY INSPECTOR SHALL, AT THEIR DISCRETION, REQUIRE ANY EROSION CONTROL DEVICES BE REPAIRED, REPLACED, RELOCATED, MODIFIED, OR REMOVED, SUCH REQUIESTS SHALL BE COMPLETED WITHIN 5 WORKING DAYS FOLLOWING RECEIPT OF THE WRITTEN REQUEST FROM THE INSPECTOR. ALL PUBLIC RIGHT OF WAY POLLUTED WITH DIRT, MUD, OR DEBRIS SHALL BE SWEPT CLEAN AT THE END OF UPSTREAM AREAS ARE PERMANENTLY STABILIZED. THE SITE CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OFF ALL SILT FROM THE SITE, IF IT IS NOT REUSABLE ON SITE.

THE LANDOWNER SHALL BE HELD RESPONSIBLE FOR THE LONG-TERM STABILITY OF CUT AND FILL SLOPES AND THE SUCCESSFUL ESTABLISHMENT OF PERMANENT VEGETATIVE COVER ON EXPOSED SOIL AS DEFINED IN THE UDFCD, VOLUME 3, CONSTRUCTION BEST MANAGEMENT PRACTICES

ALL CONSTRUCTION SUPPLIES OR MATERIALS USED OR STORED ON SITE MUST BE DISPOSED OF PROPERLY AND MUST MEET ALL APPLICABLE MATERIAL SAFETY DATA SHEET CRITERIA.

THE STATE STORMWATER DISCHARGE PERMIT HOLDER MAY BE LIABLE FOR ANY VIOLATIONS RESULTING FROM THE ACTIONS TAKEN BY SITE CONTRACTORS, SUBCONTRACTORS, MAINTENANCE CREWS, ETC.



EROSION CONTROL STRUCTURES

DETAIL 12-1

DATE: MARCH 2007

Revised Aug 2019

N ⊤ S SCALE: