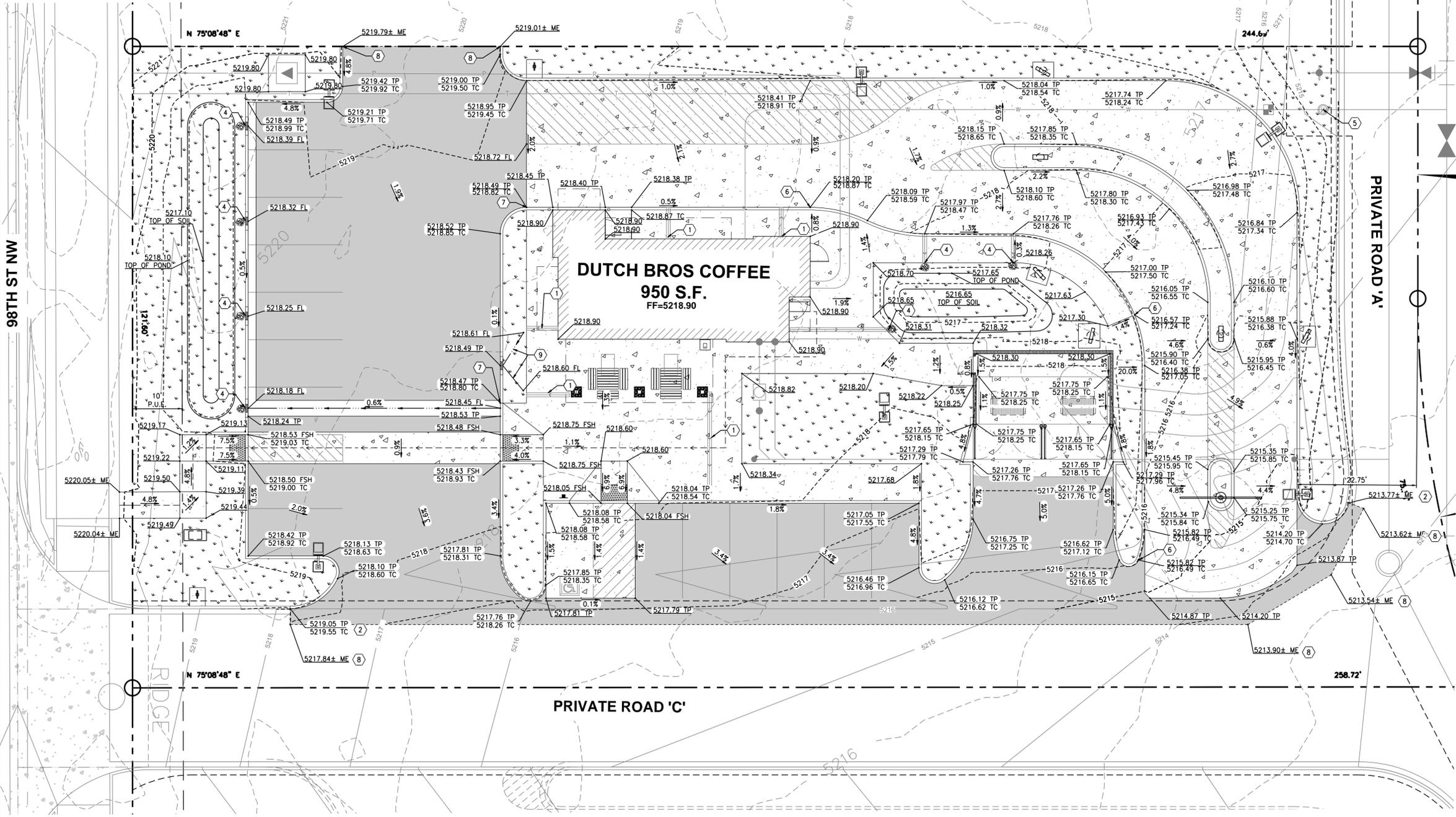




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DUTCH BROS. COFFEE - NM203, ALBUQUERQUE, NM

98TH ST NW



GRADING GENERAL NOTES:

- ALL GRADING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. THE GRADING IS SUBJECT TO THE OBSERVATION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PROPOSED GRADES IN RELATIONSHIP TO SURVEYED BASIS OF ELEVATION.
- BUILDING FINISH FLOOR (FF) ELEVATION, THE FINISH FLOOR OF THE BUILDING(S) IS DESIGNED TO BE FLUSH WITH SURROUNDING CONCRETE PAVING UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL EXISTING UTILITY STRUCTURES AND ASSOCIATED LIDS THAT FALL WITHIN THE AREA OF WORK SHALL BE ADJUSTED TO FINISHED GRADE ELEVATIONS. CONTRACTOR SHALL CONFIRM THE FEASIBILITY OF ADJUSTING EXISTING UTILITY STRUCTURE LIDS TO FINISHED GRADE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR TO PROTECT AND MAINTAIN EROSION CONTROL FACILITIES DURING GRADING OPERATIONS.
- CONTRACTOR TO OBTAIN ANY NECESSARY RIGHT-OF-WAY PERMITS IF REQUIRED FOR WORK SHOWN ON PLANS.
- ALL MATCH EXISTING ELEVATIONS SHALL BE CONSTRUCTED TO BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES. ALL SAWCUT LOCATIONS, SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.
 - FF - FINISHED FLOOR
 - FL - FLOWLINE
 - FSH - FLUSH
 - GB - GRADE BREAK
 - GR - GROUND
 - MA - MATCH OFFSITE TIE IN ELEVATION
 - ME - MATCH EXISTING
 - TC - TOP OF CURB/SIDEWALK
 - TP - TOP OF PAVING
 - RIM - RIM/GRATE ELEVATION OF STRUCTURE

STORM WATER SUMMARY

THE PROPOSED REFUSE ENCLOSURE WILL CONFORM TO SOURCE CONTROL REQUIREMENTS. THE ENCLOSURE WILL BE COVERED AND HAVE AN INTERIOR DRAIN THAT FLOWS THROUGH A GREASE INTERCEPTOR BEFORE CONNECTING TO THE SANITARY SEWER SYSTEM.

THE PROPOSED STORMWATER SYSTEM WILL INCORPORATE SURFACE FLOW TO A SINGLE ONSITE CATCH BASIN. THE PROPOSED CATCH BASIN WILL OUTFALL TO THE SITE DETENTION POND. POND OVERFLOW WILL BE DIRECTED TO ADJACENT PRIVATE DEVELOPMENT STORMWATER SYSTEM.

THE PROPOSED SITE IMPROVEMENTS WILL RESULT IN AN IMPERVIOUS AREA LESS THAN ONE (1) ACRE. AS A RESULT, THE SITE WILL NOT BE SUBJECT TO HYDROMODIFICATION REQUIREMENTS. TREATMENT REQUIREMENTS WILL BE COORDINATED WITH OVERALL DEVELOPER.

CONSTRUCTION NOTES:

- FACILITATE STORM DRAINAGE DOWNSPOUT CONNECTION: INSTALL ZURN Z886 TRENCH DRAIN PER DETAIL 1/C4.2. REFER TO DETAIL 1/C4.2 FOR GRATE SPECIFICATIONS. WHERE TRENCH DRAINS FLOW TO LANDSCAPING, CONTRACTOR TO CREATE DEPRESSION TO FACILITATE DRAINAGE FLOW.
- CONTRACTOR TO MATCH EXISTING GRADES & FLOW LINE. CONTRACTOR TO CONFIRM ELEVATIONS AND CONSTRUCT IMPROVEMENTS SHOWN TO MATCH EXISTING. IT MAY BE NECESSARY TO ADJUST ELEVATIONS BASED ON EXISTING CONDITIONS. NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO GRADE AREA TO DRAIN.
- GRADE 1" DEPRESSION.
- ADJUST UTILITY BOX TO GRADE.
- CONSTRUCT 8" CURB.
- CONSTRUCT 4" CURB.
- ELEVATIONS BASED ON OVERALL DEVELOPMENT. CONTRACTOR SHALL CONFIRM ELEVATIONS AT SAWCUT AND CONSTRUCT IMPROVEMENTS SHOWN TO MATCH EXISTING AND PROVIDE POSITIVE DRAINAGE. IT MAY BE NECESSARY TO ADJUST ELEVATIONS BASED ON EXISTING CONDITIONS. NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
- CONSTRUCT GRADED SWALE TO FACILITATE DRAINAGE FLOW.

GEOTECHNICAL GRADING NOTES:

THE FOLLOWING NOTES HAVE BEEN REFERENCED FROM THE GEOTECHNICAL REPORT PREPARED BY EARTH STRATA GEOTECHNICAL SERVICES DATED SEPTEMBER 3, 2021. REFER TO THE COMPLETE REPORT FOR ALL EARTHWORK REQUIREMENTS.

SUBSURFACE CONDITIONS:

TO REDUCE THE POTENTIAL FOR UNSIGHTLY CRACKING, SUBGRADE EARTH MATERIALS UNDERLYING CONCRETE FLATWORK SHOULD BE COMPACTED AT NEAR OPTIMUM MOISTURE TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D 1557 AND THEN MOISTENED TO OPTIMUM OR SLIGHTLY ABOVE OPTIMUM MOISTURE CONTENT. THIS MOISTURE SHOULD EXTEND TO A DEPTH OF 12 INCHES BELOW SUBGRADE AND BE MAINTAINED PRIOR TO ENGINEER OR HIS REPRESENTATIVE SHOULD VERIFY THE DENSITY AND MOISTURE CONTENT OF THE EARTH MATERIALS AND THE DEPTH OF MOISTURE PENETRATION PRIOR TO PLACING CONCRETE.

CRACKING WITHIN CONCRETE FLATWORK IS OFTEN A RESULT OF FACTORS SUCH AS THE USE OF TOO HIGH A WATER TO CEMENT RATIO AND/OR INADEQUATE STEPS TAKEN TO PREVENT MOISTURE LOSS DURING THE CURING OF THE CONCRETE.

CONCRETE DISTRESS CAN BE REDUCED BY PROPER CONCRETE MIX DESIGN AND PROPER PLACEMENT AND CURING OF CONCRETE.

GROUNDWATER:

GROUNDWATER WAS NOT OBSERVED DURING OUR SUBSURFACE EXPLORATION. IT SHOULD BE NOTED THAT LOCALIZED GROUNDWATER COULD BE ENCOUNTERED DURING GRADING DUE TO THE LIMITED NUMBER OF EXPLORATORY

SITE PREPARATION:

VEGETATION INCLUDING TREES, GRASSES, WEEDS, BRUSH, SHRUBS, OR ANY OTHER DEBRIS SHOULD BE STRIPPED

FOR EACH AREA TO RECEIVE COMPACTED FILL, THE REMOVAL OF LOW DENSITY, COMPRESSIBLE EARTH MATERIALS, SUCH AS UPPER ALLUVIAL MATERIALS AND UNDOCUMENTED ARTIFICIAL FILL, SHOULD CONTINUE UNTIL FIRM COMPETENT ALLUVIUM IS ENCOUNTERED. REMOVAL EXCAVATIONS ARE SUBJECT TO VERIFICATION BY THE PROJECT ENGINEER, GEOLOGIST OR THEIR REPRESENTATIVE.

PRIOR TO PLACING COMPACTED FILLS, THE EXPOSED BOTTOM IN EACH REMOVAL AREA SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES OR MORE, WATERED OR AIR DRIED AS NECESSARY TO ACHIEVE NEAR OPTIMUM MOISTURE CONDITIONS AND THEN COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D 1557.

REMEDIAL GRADING SHOULD EXTEND BEYOND THE PERIMETER OF

THE PROPOSED STRUCTURES A HORIZONTAL DISTANCE EQUAL TO THE DEPTH OF EXCAVATION OR A MINIMUM OF 5 FEET, WHICHEVER IS GREATER.

MATERIALS FOR FILL:

IMPORT MATERIALS SHOULD BE FREE OF DELETERIOUS/OVERSIZE MATERIALS, NON-EXPANSIVE, AND APPROVED BY THE PROJECT GEOTECHNICAL CONSULTANT PRIOR TO DELIVERY ONSITE.

TRENCH PREPARATION AND BACKFILL:

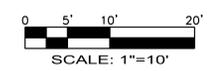
ALL UTILITY TRENCH BACKFILL SHOULD BE COMPACTED AT NEAR OPTIMUM MOISTURE TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D 1557.

FOR UTILITY TRENCH BACKFILL WITHIN PAVEMENT AREAS THE UPPER 6 INCHES OF SUBGRADE MATERIALS SHOULD BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D 1557.

THIS INCLUDES WITHIN THE STREET RIGHT-OF-WAYS, UTILITY EASEMENTS, UNDER FOOTINGS, SIDEWALKS, DRIVEWAYS AND BUILDING FLOOR SLABS, AS WELL AS WITHIN OR ADJACENT TO ANY SLOPES. BACKFILL SHOULD BE PLACED IN APPROXIMATELY 6 TO 8 INCH MAXIMUM LOOSE LIFTS AND THEN MECHANICALLY COMPACTED WITH A HYDRO-HAMMER, ROLLING WITH A SHEEPSFOOT, PNEUMATIC TAMPERS, OR SIMILAR EQUIPMENT.

THE UTILITY TRENCHES SHOULD BE TESTED BY THE PROJECT GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE TO VERIFY MINIMUM COMPACTION REQUIREMENTS ARE OBTAINED. IN ORDER TO MINIMIZE THE PENETRATION OF MOISTURE BELOW BUILDING SLABS, ALL UTILITY TRENCHES SHOULD BE BACKFILLED WITH COMPACTED FILL, LEAN CONCRETE OR CONCRETE SLURRY WHERE THEY UNDERCUT THE PERIMETER FOUNDATION.

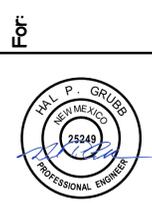
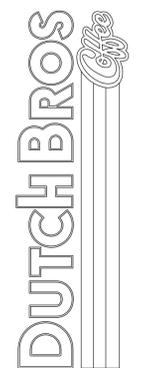
UTILITY TRENCHES THAT ARE PROPOSED PARALLEL TO ANY BUILDING FOOTINGS (INTERIOR AND/OR EXTERIOR TRENCHES), SHOULD NOT BE LOCATED WITHIN A 1:1 (H:V) PLANE PROJECTED DOWNWARD FROM THE OUTSIDE BOTTOM EDGE OF THE FOOTING.



LEGEND

BUILDING LINE	
EXISTING CURB TO REMAIN	
PROPOSED CURB	
PROPOSED BRICK PAVEMENT	
PROPOSED LANDSCAPING	
PROPOSED ASPHALT	
PROPOSED CONCRETE	

Title: NEO OF 98TH STREET NW AND VOLCANO ROAD ALBUQUERQUE, NM 87121



06/10/2022

Scale: Horizontal Vertical

Designed: JAH
Drawn: JAH
Checked: JAH
Approved: HFS
Date: 05/03/22

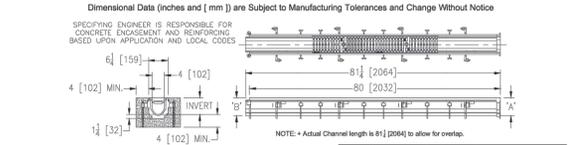
Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number: 22187
Sheet:
2019 DB
Franchising USA, LLC

DUTCH BROS. COFFEE - NM0203, ALBUQUERQUE, NM CIVIL DETAILS

ZURN Z886 6-1/4 [159] WIDE REVEAL TRENCH DRAIN SYSTEM

SPECIFICATION SHEET
TAG



ENGINEERING SPECIFICATION: ZURN Z886 Channels are 80" (2032mm) long, 6-1/4" (159mm) wide reveal and have a 4" (102mm) throat. Modular channel sections are made of 0% water absorbent High Density Polyethylene (HDPE). Channels have a positive mechanical connection between channel sections that will not separate during the installation and mechanically lock into the concrete surround a minimum of every 10' (3048mm). Channels weigh less than 2.31 lbs. per linear foot (33 kg/m), have a smooth, 1/2" (12.7mm) radius self-cleaning bottom with a Manning's coefficient of .009 and .75% or greater 0% built-in slope. Channels have rubber clips standard to secure trench in its final location. Channels are provided with standard DGC grates that lock down with lockdown bars to the channel and is not intended for dynamic loading. ZURN 5-3/8" (137mm) wide reveal Ductile Iron Slotted Grate conforming to ASTM specification A536-84, Grade 60-55-06. Ductile iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 20' (5984mm) nominal lengths with 1/2" (12.7mm) wide slots, and 3/4" (19mm) bearing depth. Grate has an open area of 28.1 sq. in. per ft. (80,300 sq. mm per meter).

INSTALLATION OPTIONS (Check/Specify appropriate options)

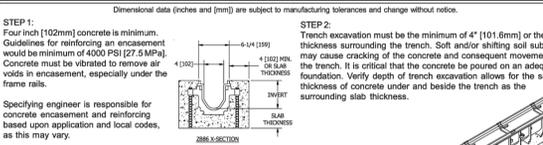
- 2 Six-foot, Eight-High High Density Polyethylene (HDPE)
- SUFFIX OPTIONS (Check/Specify appropriate options)
- Outlet Adapters Add/Each
 - E1 Closed End Cap
 - E2 2 (31) No-Hub End Outlet
 - E3 3 (76) No-Hub End Outlet
 - E4 4 (102) No-Hub End Outlet
 - E5 6 (152) No-Hub End Outlet

- Frame Options
 - AVB Aluminum Vaneer Bronze Anodized Frame
 - SVF Type 304 Stainless Steel Top Vaneer Frame
 - SW Sidewall Extension - 8 (229) High
 - SW2 Sidewall Extension - 16 (457) High
- Grate Options (Load Classifications are per DIN EN1433)
 - SDC Black Acid Resistant Epoxy Coated Ductile Grate - Class C
 - SDG Galvanized Ductile Iron Bar Grate - Class C
 - SDH Galvanized Ductile Iron Cast Bar Grate - Class C
 - SDC Ductile Iron Solid Cover - Class C
 - SDC Ductile Iron Slotted Grate - Class C
 - SDC Galvanized Ductile Slotted Grate - Class C
 - SDC Fiberglass Grate - Class A
 - CHPD Galvanized Heel-Proof Ductile Grate - Class B
 - HPD Heel-Proof Ductile ADA Grate - Class B
 - HPF Heel-Proof Polyethylene Grate - Class A
 - LD Longitudinal Ductile ADA Grate - Class B
 - RFGR Reinforced Galvanized Steel Slotted Grate - Class B
 - RFGR Reinforced Slotted Galvanized Grate - Class C
 - RFGR Reinforced Slotted Stainless Steel Grate - Class C
 - RFGR Reinforced Perforated Galvanized Grate - Class C
 - RFGR Reinforced Perforated Galvanized Reverse Punch Grate - Class B
 - RFGR Reinforced Galvanized Perforated Reverse Punch ADA Grate - Class C
 - RFGR Reinforced Perforated Stainless Steel Grate - Class C
 - RFGR Reinforced Perforated Stainless Steel Reverse Punch Grate - Class C

- Miscellaneous Options
 - VP Vandal Proof Lockdown
 - JC Joint Connector
- Decorative Grate Options (Load Classifications are per DIN EN1433)
 - SDC Bronze Circular Decorative Grate - Class A

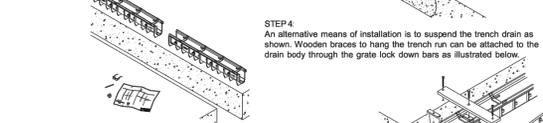
Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA, U.S.A. 16502 | Ph: 855-663-9876, Fax 814-454-7929
In Canada | Zurn Industries Limited
7300 Goreway Drive, Unit 10, Brampton, Ontario L6T 5V9S - Ph: 877-892-5216
www.zurn.com

ZURN Z886 6-1/4 [159] WIDE REVEAL TRENCH DRAIN SYSTEM CONCRETE INSTALL



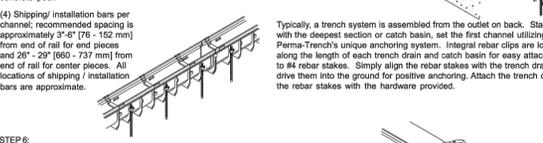
STEP 1: Four inch (102mm) concrete is minimum. Guidelines for reinforcing an encasement would be minimum of 4000 PSI (27.5 MPa). Concrete must be vibrated to remove air voids in encasement, especially under the frame rails.

STEP 2: Trench excavation must be the minimum of 4" (101.6mm) or the slab thickness surrounding the trench. Soft and/or shifting soil substrates may cause cracking of the concrete and consequent movement of the trench. It is critical that the concrete be poured on an adequate foundation. Verify depth of trench excavation allows for the same thickness of concrete under and beside the trench as the surrounding slab thickness.



STEP 5: Shipping / installation bars will be placed on ALL channels when no frame is attached, prior to shipment. This is to stabilize the rails and maintain inside dimensions during shipping / installation. Bars are for shipping and installation purposes only and must be removed upon completion of the concrete pour.

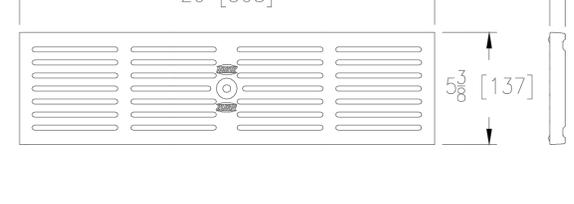
STEP 6: Pour the concrete around the three sides of the trench drain. Be certain to adequately VIBRATE the concrete as it is being placed. Proper vibration will eliminate any unwanted voids within the concrete pour. If sidewalls are used, a first and second pour are recommended.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
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In Canada | Zurn Industries Limited
3444 Nashua Drive, Mississauga, Ontario L4V 1L2 | Ph: 905-405-8272, Fax 905-405-1282
www.zurn.com

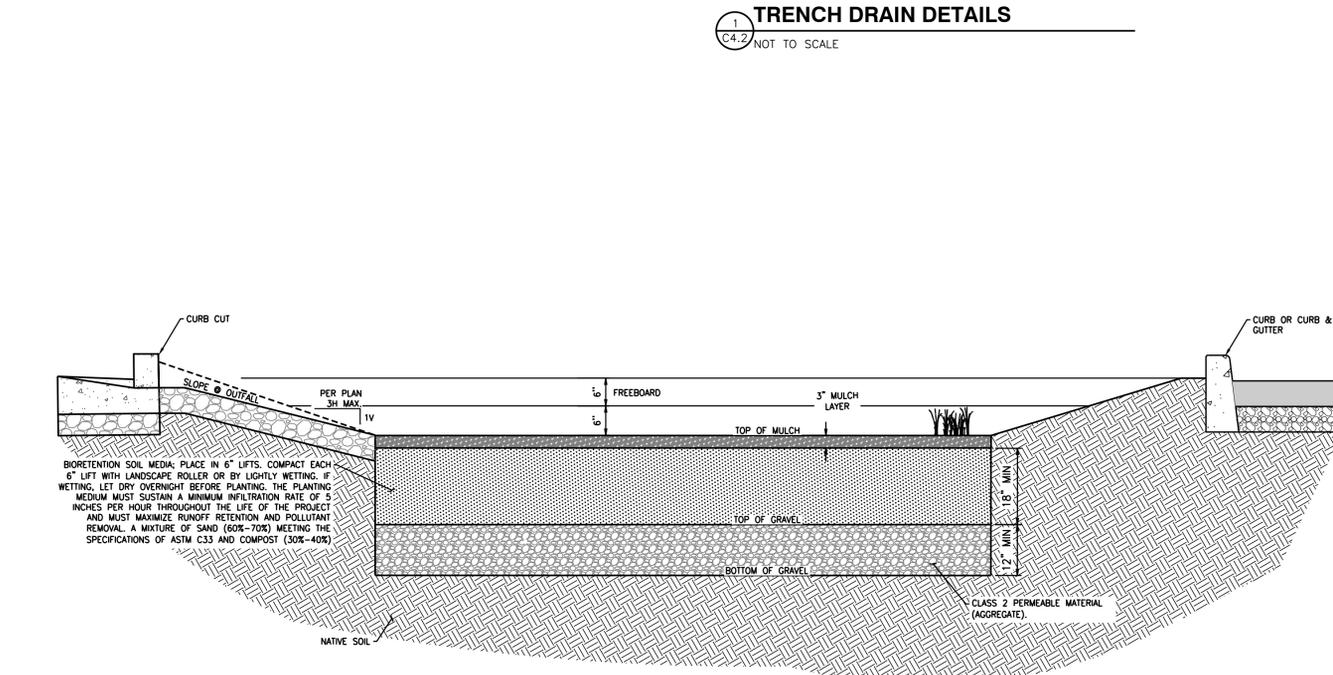
ZURN P6-GHPD 6 [152] Wide Grate



GHPD - Heel-Proof Slotted
Material: Galvanized Ductile Iron
DIN Rating: Class B
Weight: 6.3 lbs/ft. (9.5kg/m)
Open Area: 17.0 in²/ft. (361cm²/m)
ANSI Rating: Medium-Duty
Application: Heel-Proof
Slot Width/Hole Size: 1/4" (6.4mm)
ADA: Yes*
H-20: No
FAA: No

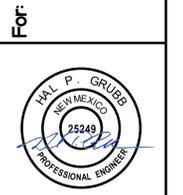
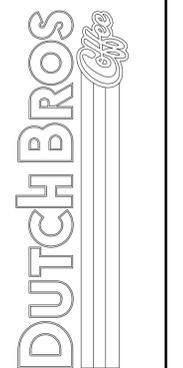
*Elongated openings must be placed perpendicular to the dominant direction of travel.

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2 DETENTION BASIN C4.2 NOT TO SCALE

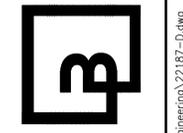
CIVIL DETAILS
NEO OF 98TH STREET NW AND VOLCANO ROAD
ALBUQUERQUE, NM 87121



Scale:
Horizontal N/A
Vertical N/A

Designed: JAH
Drawn: JAH
Checked: JAH
Approved: HFS
Date: 06/03/22

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number: 22187
Sheet: C4.2
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Franchising

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