

# *City of West Branch*

~ A Heritage for Success ~

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110 N. Poplar St. • P.O. Box 218 • West Branch, Iowa 52358  
Ph. 319-643-5888 • Fax 319-643-2305 • www.westbranchiowa.org • wbcity@lcom.net

## **PLANNING AND ZONING COMMISSION MEETING**

**Tuesday, March 25, 2014 • 6:30 p.m.**

**West Branch City Council Chambers, 110 N. Poplar St.**

*Council Quorum May Be Present*

1. Call to Order
2. Roll Call
3. Approve minutes from the January 28, 2014 Planning and Zoning Commission Meeting/Move to action.
4. Public Hearing on Proposed Amendments to Sections 165.04, 165.11, 165.22, 165.24 and 165.44 of the West Branch Zoning Ordinance.
5. Approve recommendation to the City Council for the passage of Ordinance 720, amending Chapter 165 “Zoning Regulations.”/Move to action.
6. Approve recommendation to the City Council for the passage of Ordinance 721, amending Chapter 165 “Zoning Regulations.”/Move to action.
7. Approve Casey’s General Store Site Plan./Move to action.
8. Old Business
  - a. City Engineer Dave Schechinger - Meadows Subdivision Part II/Traffic Study Update
  - b. City Engineer Dave Schechinger - City Zoning Map Discussion
9. New Business
10. Adjourn

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**Planning & Zoning Commission Members:** Roger Laughlin, Chair, Helen Dauber, John Fuller,  
Trent Hansen, Molly Menard, Gary Slach, vacant

**Mayor:** Mark Worrell • **Council Members:** Jordan Ellyson, Colton Miller, Brian Pierce, Tim Shields, Mary Beth Stevenson

**City Administrator/Clerk:** Matt Muckler • **Fire Chief:** Kevin Stoolman • **Library Director:** Nick Shimmin

**Parks & Rec Director:** Melissa Russell • **Police Chief:** Mike Horihan • **Public Works Director:** Matt Goodale

*(These minutes are not approved until the next Commission meeting.)*

**City of West Branch Planning & Zoning Commission Meeting**  
**January 28, 2014**  
***West Branch City Council Chambers, 110 North Poplar Street***

Chair Roger Laughlin opened the meeting of the West Branch Planning and Zoning Commission at 6:30 p.m. by welcoming the audience and the following City Staff: City Administrator Matt Muckler, Administrative Assistant Shanelle Peden, Zoning Administrator Paul Stagg, Mayor Mark Worrell, and Councilperson Mary Beth Stevenson. Commission members Roger Laughlin (Chair), Helen Dauber, John Fuller, Trent Hansen, and Molly Menard were present. Commission member Gary Slach was absent.

Motion by Hansen to approve the minutes from the December 3, 2013 Commission meeting, second by Fuller. AYES: Hansen, Fuller, Laughlin, Dauber, Menard. NAYS: None. ABSENT: Slach. Motion carried.

Central States Tower II, LLC Tower Site Plan-Stu Harrison, representative from Central States Tower, spoke to the Commission regarding the construction of a 197 foot Verizon Wireless cellular tower at 207 Northridge Drive. Harrison shared that construction of the tower will improve Verizon cellular service in and around the City. The structure is planned to be secured by a chain-link fence as well as barbed wire around the tower. Harrison added that during severe weather events, service poles such as these are engineered to bend instead of break.

Chair Laughlin asked if the structure would sit on footings or cement slab. Harrison responded that the structure would sit on a slab that would be constructed slightly larger than building itself. Commission Member Menard asked how the tower would impact home values in the area. Harrison remarked that he was not aware of any effects to adjacent property values. Commission Member Hansen asked what the estimated tax value of the tower could be and Harrison responded that it would be approximately \$125,000.00. Eric Gould, representative from Veenstra & Kimm, indicated that his firm has reviewed the Tower Site Plan and believes Central States Tower has addressed all of the issues raised by V & K.

Mayor Worrell asked who bears the liability if the tower falls. Harrison indicated that Central States Tower and Verizon would cover any losses. Mayor Worrell asked that the City be added as additional insured to the Tower's insurance policy. Harrison also indicated that tower rungs would be removed at twenty feet and below. Commission member Fuller asked if there would be a maintenance and inspection plan. Harrison responded that Central States Tower has its own plan and could provide that to City. Commission member Hansen asked if a Knox box would be installed for fire protection. Harrison responded to the Commission that Central States Tower would be willing to provide any safety features requested by the City of West Branch.

Motion by Fuller to approve the Central States Tower II, LLC Site Plan to include adding the City of West Branch as an additional insured on the Tower insurance policy and the removal of tower

rungs at twenty feet and below, second by Dauber. AYES: Fuller, Dauber, Hansen, Laughlin, Menard. NAYS: None. ABSENT: Slach. Motion carried.

Casey's Site Plan-City Administrator Muckler indicated that the City has received the Site Plan for Casey's and it is available for viewing at City Office.

Updated Zoning Map-Commission member Hansen asked that uniformity be established for designated areas. Chair Laughlin indicated he would like to see the area where Croell Redi-Mix is located to be changed and rezoned for residential development. City Administrator Muckler responded that he has had discussions with property owners in the industrial park which could provide options for Croell Redi-Mix should they choose to relocate their facility.

Meadows Subdivision, Part II - Chris Kofoed and Brad Larson, representatives of KLM Investments, L.L.C., spoke to the Commission regarding the desire to begin developing Meadows Phase II. KLM recognized that there has been discussion of trail placement. City Administrator Muckler added that City Engineer Dave Schechinger and City Attorney Kevin Olson have been involved in the review of the preliminary plat. Chair Laughlin asked if a series of ponds would be conducive to the development. Larson responded that a retention pond could be located on the North side of West Orange Street. Larson acknowledged that a traffic study would be needed. City Administrator Muckler added that traffic study representatives would be meeting January 29, 2014 to determine multiple needs within the City, and that City Engineer Schechinger comprised list of needs based on feedback from the City and other interested parties. Commission member Fuller asked if trail extension could be incorporated in the study. City Administrator Muckler shared that considerable changes have been made to incorporate grading and flood plain certification from the initial design of Meadows Phase II. Larson added that they would be seeking a variance for the street grade that exceeds five percent in the area to be developed. City Administrator Muckler concluded the discussion with the idea that KLM would turn over a portion of the property to the City for park development.

Motion by Fuller to adjourn the meeting, second by Hansen. Motion carried on a voice vote. Planning and Zoning Commission meeting adjourned at 7:39 pm.

# City of West Branch

~A Heritage for Success~

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## Public Works Department

March 14, 2014

Dear West Branch Property Owner:

The West Branch Planning and Zoning Commission has been working with City Staff over the last several months to update the City of West Branch Zoning Map. There have been several changes to zoning district boundaries since the last official zoning map was adopted on April 1, 1991.

In addition to changes to zoning district boundaries, the Planning & Zoning Commission and City Council will consider amending the P-1 zoning district from “park” to “public use.” The current P-1 zoning district is assigned to only two properties: Beranek Park and Lions Field.

The new public use zoning district would apply to all properties within the West Branch Corporate Limits owned by the United States Federal Government, the State of Iowa, Johnson or Cedar County, the West Branch Community School District, the City of West Branch or other governmental entities.

The public hearing notices included with this letter are required by Section 165.23 of the City Code of Ordinances. Copies of the Planning and Zoning public hearing notice appeared in the March 13<sup>th</sup> edition of the West Branch Times and the City Council public hearing notice will appear in the March 20<sup>th</sup> edition of the West Branch Times. The public hearing notices are also posted on the West Branch City Website at <http://www.westbranchiowa.org/government/public-hearing-notices> and at the West Branch City Office, Public Library and Post Office. The zoning amendments and proposed zoning map can be found on the City Website at <http://www.westbranchiowa.org/government/planning-zoning-commission>.

Sincerely,



Paul Stagg  
Zoning Administrator

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110 N. Poplar St. · PO Box 218 · West Branch, Iowa 52358 · Ph. 319-643-5888  
[pauls@westbranchiowa.org](mailto:pauls@westbranchiowa.org) · Fax 319-643-2305 · [www.westbranchiowa.org](http://www.westbranchiowa.org)

NOTICE OF PUBLIC HEARING

NOTICE OF PUBLIC HEARING ON PROPOSED AMENDMENTS TO SECTIONS 165.04, 165.11, 165.22, 165.24 AND 165.44 OF THE WEST BRANCH ZONING ORDINANCE.

YOU ARE HEREBY NOTIFIED that a public hearing will be held to consider the above referenced matter by the Planning and Zoning Commission of the City of West Branch, Cedar County, in the Council Chambers at the City Hall at 110 N. Poplar Street, at 6:30 o'clock P.M., on Tuesday, March 25<sup>th</sup>, 2014. The proposed amendments will specify effective dates of variances and allow for the City Council to remand decisions to grant variances back to the Zoning Board of Adjustment. The amendments also clarify regulations regarding fences, hedges and retaining walls, add a public use zoning district and update the city's zoning map.

All interested persons are invited to attend the meeting and be heard on the aforementioned proposed amendments to the West Branch Code of Ordinances. Further information on this matter may be obtained by contacting the West Branch City Clerk.

/s/Matt Muckler  
Matt Muckler, City Clerk  
by West Branch City Council

NOTICE OF PUBLIC HEARING

NOTICE OF PUBLIC HEARING ON PROPOSED AMENDMENTS TO SECTIONS 165.04, 165.11, 165.22, 165.24 AND 165.44 OF THE WEST BRANCH ZONING ORDINANCE.

YOU ARE HEREBY NOTIFIED that a public hearing will be held to consider the above referenced matter by the City Council of the City of West Branch, Cedar County, in the Council Chambers at the City Hall at 110 N. Poplar Street, at 7:00 o'clock P.M., on Monday, April 7<sup>th</sup>, 2014. The proposed amendments will specify effective dates of variances and allow for the City Council to remand decisions to grant variances back to the Zoning Board of Adjustment. The amendments also clarify regulations regarding fences, hedges and retaining walls, add a public use zoning district and update the city's zoning map.

All interested persons are invited to attend the meeting and be heard on the aforementioned proposed amendments to the West Branch Code of Ordinances. Further information on this matter may be obtained by contacting the West Branch City Clerk.

/s/Matt Muckler  
Matt Muckler, City Clerk  
by West Branch City Council

Memorandum

TO: Roger Laughlin  
FROM: Craig Walker  
SUBJ: Zoning Regulations Ordinance 720  
DATE: March 14, 2014

This memo serves as follow-up to the December 3, 2013 Planning and Zoning Commission (The Commission) Meeting; wherein, The Board of Adjustment (BOA) presented a draft ordinance for review, discussion, and endorsement by the Planning and Zoning Commission. The revised ordinance has been placed on The Commission's March 25th agenda to meet the Public Hearing requirements when changes to the Zoning Code are pending.

To facilitate the March 25th meeting I have provided a chronology of activities beginning with The Commission's December 3, 2013 meeting.

DECEMBER 3rd MEETING

1) Incorporating language to the West Branch City Code to include a provision for the Council to review and remand back to the Board of Adjustment decisions for further study, as per Iowa Code (reference IA Code 414.7).

There was discussion whether it was necessary given the responsibilities of the BOA. Matt Muckler commented that it did provide an avenue for review that would not require a next step as a law suit but rather the Council asking the BOA to review the decision. Following discussion it was agreed to retain this language in the ordinance.

2) Amending City Code 165.04 DEFINITIONS to provide clarity / differentiation to the definitions of "Screens", "Fences", "Hedges", and "Retaining Walls".

The only change here was to the definition of a Fence by striking "freestanding" and replacing it with "self-supporting". FENCE — A self-supporting structure extending above ground designed to define, restrict, or prevent movement across a boundary.

3) Amending City Code Section 165.11 PERMITTED OBSTRUCTIONS IN REQUIRED YARDS to add fences and retaining walls to the list of permitted obstructions in ALL yards. This would further correct inconsistent language regarding Fences between 165.11 and 165.44. Note 165.44 ("Fences") currently permits fences in all yards whereas 165.11 only references fences in rear yards and side yards.

It was noted during this discussion that Hedge should also be added to the "allowed" permitted obstructions list.

4) Amending 165.44 (Fences) to include specific requirements/limitations for “Retaining Walls”

Contributing to the discussion were West Branch Fire Chief Kevin Stoolman and Dave Schechinger our City Engineer.

Following discussion the requirements recommendation was modified to drop the reference to “Exceptions” - ~~“Exceptions may be considered by the Board of Adjustment upon review and approval of the West Branch Fire Chief.”~~

In addition — Matt Muckler asked that Retaining Walls be included as its own section following 165.44 FENCES / HEDGES / WALLS.

#### JANUARY 2014

Matt Muckler shared ordinance comments received from Kevin Olson with Craig Walker and Paul Stagg. Matt Muckler, Craig Walker, and Paul Stagg met on January 15th and updated the Ordinance Draft to incorporate Kevin Olson’s input and the revisions agreed to in the December 3rd Commission Meeting.

Upon further review of the Ordinance language it was decided for simplification and clarity to NOT add a separate section on retaining walls, but rather include retaining walls within 165.44 FENCES / HEDGES / WALLS / RETAINING WALLS.

#### MARCH 2014

March 4, 2014 - A final review of the Ordinance was completed with minor consistency / proofing edits. Matt Muckler assigned the Ordinance number #720 and provided a copy to Kevin Olson for final review.

March 25, 2014 - Planning and Zoning Commission Meeting and “Public Hearing” on Ordinance #720. Planning and Zoning Commission provides endorsement of Ordinance #720.

April 7, 2014 - West Branch City Council Meeting - Ordinance #720 included on Council Agenda for April 7th meeting.

ORDINANCE NO. 720

AN ORDINANCE AMENDING CHAPTER 165 "ZONING REGULATIONS."

WHEREAS, the Zoning Board of Adjustment of the City of West Branch, Iowa, believes that a procedure for City Council review of variances would be beneficial to the Zoning Code; and

WHEREAS, the Zoning Board of Adjustment of the City of West Branch, Iowa, believes that the clarification of certain terms in the Zoning Code will lead to a clearer understanding of the Code's requirements; and

WHEREAS, the Zoning Board of Adjustment of the City of West Branch, Iowa, believes that retaining walls, that do not cause "safety or access" issues which meet certain limitations, should be allowed in at least a portion of the minimum area required for yards; and

WHEREAS, the Planning & Zoning Commission has reviewed these recommendations and concurs with the Zoning Board of Adjustment; and

WHEREAS, the Planning & Zoning Commission recommends to the City Council of the City of West Branch, adoption of these amendment recommendations in the Zoning Code; and

WHEREAS, the City Council of the City of West Branch, Iowa has reviewed these recommendations and concurs with the Zoning Board of Adjustment and Planning & Zoning Commission.

NOW, THEREFORE, BE IT ORDAINED, by the City Council of the City of West Branch, Cedar County, Iowa:

Section 1. Amendment. The Code of Ordinances is hereby amended by the City Council of West Branch, Iowa by incorporating the following language to Title, "ZONING AND SUBDIVISION", Chapter 165, "ZONING REGULATIONS":

a. Section 165.22 - POWERS OF THE BOARD is hereby amended to add paragraph 8, which reads as follows:

“8. The effective date of a variance is thirty days after granted by the Zoning Board of Adjustment. The City Council may remand a decision to grant a variance to the Zoning Board of Adjustment for further study. The effective date of the variance in this case is delayed for thirty days from the date of the remand. “

b. Section 165.04 - DEFINITIONS is hereby amended by incorporating the following definition into said Section 165.04:

“Fence” means — “A self-supporting manmade structure extending above ground designed to define, restrict, or prevent movement across a boundary. ”

“Screen” means — “A class of fence intended to provide a visual buffer (e.g., hide utility boxes or trash containers)”

“Hedge” means — “A row of closely planted shrubs or low-growing trees that may serve as a fence.”

“Retaining Wall” means - “A wall not laterally supported at the top, that resists lateral soil load and other imposed loads”

c. Section 165.11(1) - PERMITTED OBSTRUCTION IN REQUIRED YARDS - In all yards, is hereby amended by adding paragraphs F. and G., which read:

F. Fences, hedges, and walls (see Section 165.44 for requirements)

G. Retaining walls (see Section 165.44 and requirements specific to Retaining Walls in 165.44 (9))

d. Section 165.11(3) and Section 165.11(4) are hereby amended by deleting references to fences.

e. Section 165.44 FENCES is hereby amended by incorporating the following language into said Section 165.44

“165.44 FENCES / HEDGES / WALLS / RETAINING WALLS

f. Section 165.44 (9) is added and reads as follows:

Retaining Walls - are subject to the following additional requirements:

a. May not extend within 4 feet of the lot line.

b. If they are greater than 48” in height must also include an approved fence clearly marking the top of the wall.

c. Will be subject to engineering review if they exceed 48” in height.

d. Will be subject to engineering review when a Surcharge Load is present.

Section 2. Conflicts. All ordinances or parts of ordinances not specifically provided for and in conflict with the provisions of this ordinance are hereby repealed.

Section 3. Adjudication. If any section, provision, or part of this ordinance shall be adjudged to be invalid or unconstitutional, such adjudication shall not affect the validity of the ordinance as a whole or any section, provision or part thereof not adjudged invalid or unconstitutional.

Section 4. Effective Date. This ordinance shall be in full force and effect after its passage, approval and publication as required by law.

\* \* \* \* \*

Passed and approved this 7th day of April, 2014.

First Reading: April 7, 2014

Second Reading:

Third Reading:

\_\_\_\_\_  
Mark Worrell, Mayor

ATTEST:

\_\_\_\_\_  
Matt Muckler, City Administrator/Clerk

**ORDINANCE NO. 721**

**AN ORDINANCE AMENDING CHAPTER 165 “ZONING REGULATIONS”**

WHEREAS, the City Council of the City of West Branch, Iowa, has heretofore deemed it necessary and desirable to create a public use zoning district; and

WHEREAS, the City Council has updated its zoning map and assigned all public uses with a P-1 zoning designation.

NOW, THEREFORE, BE IT ORDAINED:

1. BE IT ENACTED by the City Council of West Branch, Iowa, that Chapter 165 “ZONING REGULATIONS” of the Code of West Branch, Iowa is hereby amended by deleting Section 165.24 in its entirety and inserting in lieu thereof:

**165.24 ESTABLISHMENT OF DISTRICTS AND BOUNDARIES.** For the purpose of this chapter, the City is hereby divided into the following districts:

Agricultural	A-1 District
Residence	R-1 Single Family District
Residence	R-2 Two Family District
Residence	R-3 Multiple Family District
Residence/Business	RB-1 District
Business	B-1 District
Business	B-2 District
Industrial	I-1 District
Industrial	I-2 District
Flood Plain	FP District
Highway Commercial Industrial	HCI District
Central Business	CB-1 District
Central Business	CB-2 District
Central Industrial	CI-2 District
Public Use	P-1 District

Said districts are bounded and defined as shown on a map entitled “Zoning District Map, West Branch, Iowa,” adopted May 5, 2014, which, with all explanatory matter therein, is hereby made a part of this chapter.

2. BE IT ENACTED by the City Council of West Branch, Iowa, that Chapter 165 “ZONING REGULATIONS” of the Code of West Branch, Iowa is hereby amended by adding the following section to Chapter 165:

**165.XX PUBLIC USE DISTRICT.**

It is the intent of the Public Use District (P-1) to provide reference on the zoning map to public uses of land. Thus, land owned by the United States Federal Government, the State of Iowa, Johnson or Cedar County, the West Branch Community School District, the City of West Branch or other governmental entities will be designated Public Use.

1. Permitted Principal Uses and Structures.

A. Use of land, buildings, or structures of the aforementioned Federal and State governments or political subdivisions thereof.

B. Agriculture.

2. Permitted Accessory Uses and Structures. Uses subject to the provisions of Section 165.07.

3. Special Exceptions. None.

4. Minimum Lot Areas and Width. None.

5. Minimum Yard Requirements. None.

6. Maximum Height. None.

7. Minimum Off-Street Parking and Loading Spaces. All parking and loading areas shall be constructed and loading facilities shall be provided in the following required amounts:

A. Public community center or library – 10 spaces plus one space for every 200 square feet of floor area in excess of 2,000 square feet.

B. Schools – one space for each classroom or office space plus one space for every ten seats of average seating in the main auditorium, stadium, or place of public assembly.

3. This amendment to the ordinance shall be in full effect from and after its publication as by law provided.

4. All ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

5. If any section, provision, or part of this ordinance shall be adjudged to be invalid or unconstitutional, such adjudication shall not affect the validity of this ordinance as a whole or any part, section, or provision thereof not adjudged invalid or unconstitutional.

Passed and approved this 7th day of April, 2014.

First Reading: April 7, 2014

Second Reading:

Third Reading:

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Mark Worrell, Mayor

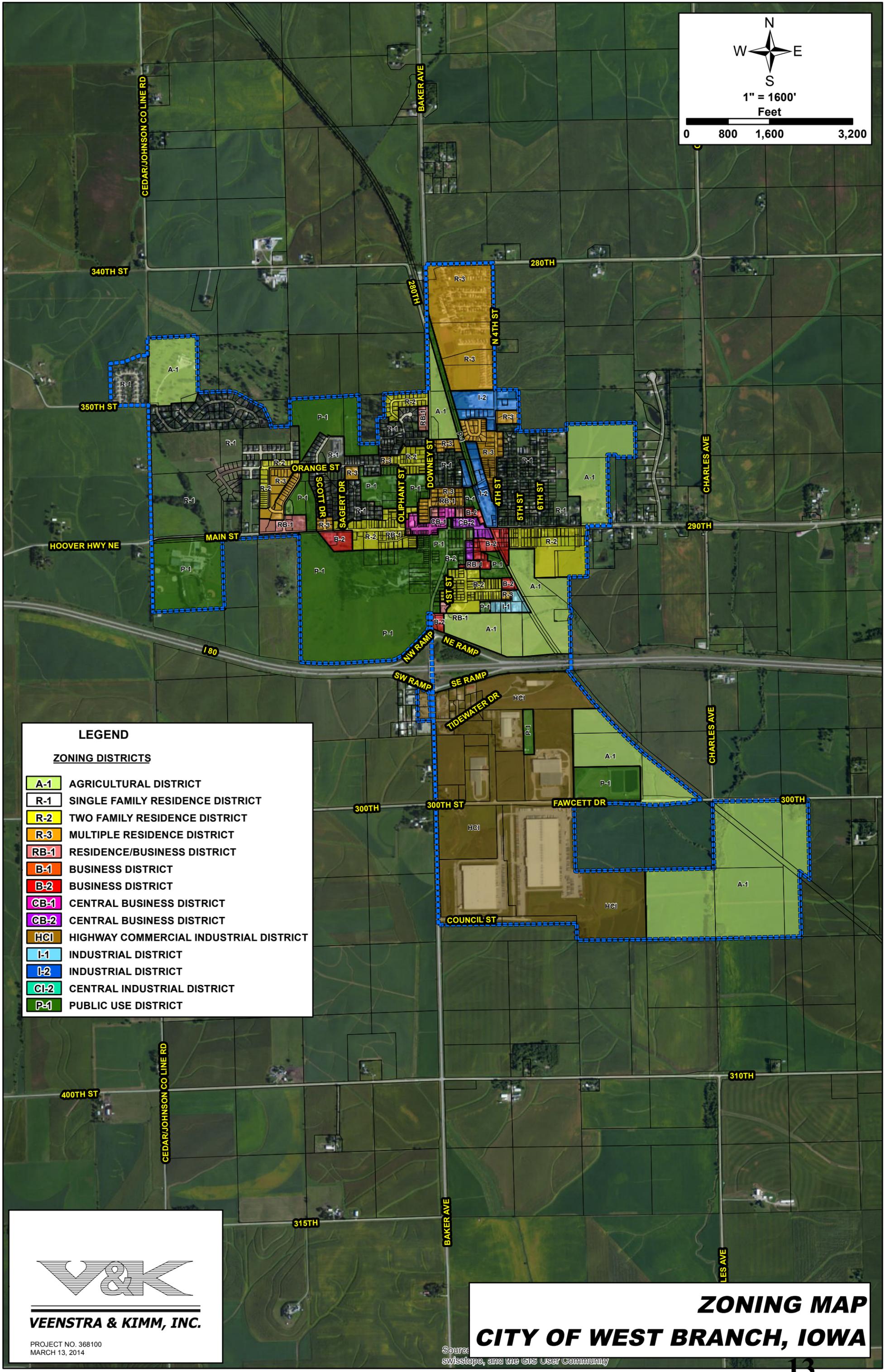
Attest:

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Matt Muckler, City Administrator/Clerk



1" = 1600'  
Feet



### LEGEND

#### ZONING DISTRICTS

- A-1** AGRICULTURAL DISTRICT
- R-1** SINGLE FAMILY RESIDENCE DISTRICT
- R-2** TWO FAMILY RESIDENCE DISTRICT
- R-3** MULTIPLE RESIDENCE DISTRICT
- RB-1** RESIDENCE/BUSINESS DISTRICT
- B-1** BUSINESS DISTRICT
- B-2** BUSINESS DISTRICT
- CB-1** CENTRAL BUSINESS DISTRICT
- CB-2** CENTRAL BUSINESS DISTRICT
- HCl** HIGHWAY COMMERCIAL INDUSTRIAL DISTRICT
- I-1** INDUSTRIAL DISTRICT
- I-2** INDUSTRIAL DISTRICT
- CI-2** CENTRAL INDUSTRIAL DISTRICT
- P-1** PUBLIC USE DISTRICT



**VEENSTRA & KIMM, INC.**

PROJECT NO. 368100  
MARCH 13, 2014

## ZONING MAP CITY OF WEST BRANCH, IOWA

Source: swisstopo, and the GIS User Community

CITY OF WEST BRANCH  
COMMISSION ACTION REPORT

MEETING DATE: March 25, 2014 AGENDA ITEM: 7

DATE PREPARED: March 13, 2014

STAFF LIAISON: Matt Muckler, City Administrator

ACTION TITLE:  
Casey's General Stores Site Plan

**RECOMMENDATIONS:**  
Approve Casey's General Stores Site Plan.

**PROJECT DESCRIPTION:**  
Casey's General Stores has been working to develop plans to construct a gas and convenience store over the last year. The site plan is completed. City Engineer Dave Schechinger has been working with Pelds Engineering, the firm representing Casey's, to put together a road improvement plan. That plan has been submitted to IDOT and as of March 14<sup>th</sup>, we are still waiting for approval. City staff will be having discussions with Casey's General Stores about a tax increment financing proposal for the road improvements.

**ATTACHMENTS:**  
Resolution 1185, approving Casey's General Stores Site Plan (1 page)  
Site Improvements for Casey's General Stores (including Site Plan on page AL-101), January 2014 (6 Pages)  
Public Improvements (4 pages)  
Red Leonard Associates Lighting Plan (5 pages)  
Storm Water Detention Calculations (5 pages)

RESOLUTION NO. 1185

RESOLUTION APPROVING CASEY'S GENERAL STORES SITE PLAN.

WHEREAS, Casey's General Stores has heretofore submitted a proposed Site Plan to construct a gas and convenience store at 615 S. Downey Street in the City of West Branch, Iowa (the "Project"); and

WHEREAS, said Site Plan has heretofore been reviewed by City Staff, including the City Engineer; and

WHEREAS, the Site Plan has been found to conform to West Branch Code of Ordinances; and

WHEREAS, the City of West Branch Planning and Zoning Commission has reviewed the Site Plan and recommended its approval to the West Branch City Council; and

WHEREAS, it is now necessary for the City Council to approve said Site Plan.

NOW, THEREFORE, be it resolved by the City Council of the City of West Branch, Cedar County, Iowa, that the aforementioned Site Plan for the Project be and the same are hereby accepted and approved.

\* \* \* \* \*

Passed and approved this 7th day of April, 2014.

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Mark Worrell, Mayor

ATTEST:

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Matt Muckler, City Administrator/Clerk

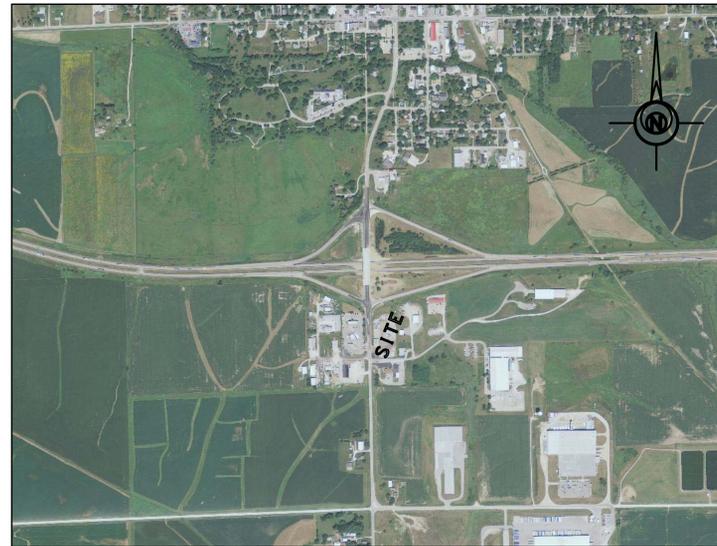
# SITE IMPROVEMENTS

FOR

## CASEY'S GENERAL STORES

### S DOWNEY STREET & TIDEWATER DRIVE

### WEST BRANCH, IOWA



VICINITY SKETCH

PROPERTY ZONING: HCI - HIGHWAY COMMERCIAL INDUSTRIAL

BUILDINGS:  
PROPOSED CASEY'S GENERAL STORE ~ 4,346 sq.ft.

GENERAL NOTES:

1 All construction to be per Iowa S.U.D.A.S. including all West Branch Supplemental Specifications.

DEVELOPER:

CASEY'S MARKETING COMPANY  
ONE S.E. CONVENIENCE BLVD.  
ANKENY, IOWA 50021  
PROJECT CONTACT: LANCE BURKE & MELANI SAMORA  
PH: (515) 965-6100

ENGINEER/LAND SURVEYOR:

A. LEO PELDS ENGINEERING COMPANY  
2323 DIXON STREET  
DES MOINES, IOWA 50317  
PROJECT CONTACT: ELARA JONDLE  
PH: (515) 265-8196

LEGAL DESCRIPTION:

The West 259.00 feet of parcel of land in the North 1/2 of the Southwest 1/4 of Section 8, T 79N, R 4W of the 5th P.M. in Cedar County, Iowa as recorded in Plat Book 5, Page 320 in the Auditor's Office of Cedar County, Iowa, except the South 40.00 feet thereof more particularly described as follows:

COMMENCING at a point of reference at the Southwest Corner of the North 1/2 of the Southwest 1/4 of said Section 8; THENCE N 90°00'00" E, 50.00 feet along the South line of said North 1/2 to a found 5/8" iron pin at a point of intersection with the Easterly Right-of-Way line of County Road "D"; THENCE N 0°33'00" W, 304.00 feet along said Easterly Right-of-Way line to an iron pin being the POINT OF BEGINNING of Parcel "A"; THENCE N 90°00'00" E, 259.00 feet to an iron pin; THENCE N 0°33'00" W, 585.25 feet to an iron pin along the southerly Right-of-Way line of Interstate 80; THENCE S 74°51'00" W, 215.19 feet along said Southerly Right-of-Way line to an iron rail; THENCE S 24°43'00" W, 118.90 feet along said Southerly Right-of-Way line to an iron rail along the said Easterly Right-of-Way line of County Road "D"; THENCE S 0°33'00" E, 421.00 feet to the POINT OF BEGINNING; and subject to easements of record, and containing 3.21 acres.

#### SHEET INDEX

Sheet 1.....	Cover Sheet
Sheet 2.....	Boundary & Topo
Sheet 3.....	Site Plan (AL-101)
Sheet 4.....	Grading Plan
Sheet 5.....	Utility Plan
Sheet 6.....	Landscaping Plan

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

VOLDEMARS L. PELDS, P.E. IA. LIC. NO. 18842 DATE  
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2015  
ADDITIONAL PAGES OR SHEETS COVERED BY THIS SEAL (NONE UNLESS INDICATED HERE)

**A. LEO PELDS ENGINEERING COMPANY**  
Engineering | Planning | Surveying  
2323 Dixon Street, Des Moines, IA 50316 - P.O. Box 4626, Des Moines, IA 50305 - P: (515) 265-8196 F: (515) 266-2259

EXISTING UTILITIES NOTE:  
THE LOCATIONS OF THE EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/OR RECORDS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION. IOWA ONE-CALL (1-800-292-6989).

DISCLAIMER:  
THIS DRAWING IS BEING MADE AVAILABLE BY A. LEO PELDS ENGINEERING COMPANY (A.L.P.E.C.) FOR USE ON THIS PROJECT IN ACCORDANCE WITH A.L.P.E.C.'S AGREEMENT FOR PROFESSIONAL SERVICES. A.L.P.E.C. ASSUMES NO RESPONSIBILITY OR LIABILITY (CONSEQUENTIAL OR OTHERWISE) FOR ANY USE OF THESE DRAWINGS (OR ANY PART THEREOF) EXCEPT IN ACCORDANCE WITH THE TERMS OF SAID AGREEMENT.

**LEGEND:**

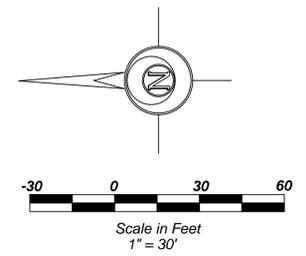
STANDARD SYMBOLS:

- IRON ROD OR PIPE FOUND
- CALCULATED CORNER
- ▲ SECT. COR. MONUMENT FOUND
- △ SECT. COR. MONUMENT CALC.
- ⊙ POWER POLE
- ⊙ LIGHT POLE
- F.F. FINISHED FLOOR
- +/-
- ✕
- ⊙
- ⊙
- ⊙
- 125.3
- N.T.S.
- H.M.A.
- MORE OR LESS FENCE LINE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- VALVE
- SPOT ELEVATION (@ x)
- NOT TO SCALE
- HOT MIX ASPHALT

- P.C.C. PORTLAND CEMENT CONCRETE
- xxx--- UTILITY LINE OR PIPE
- W WATER
- G GAS
- S SANITARY SEWER
- ST STORM SEWER
- UGE/T UNDERGROUND ELEC. / TEL.
- OHE/T OVERHEAD ELEC. / TEL.
- CATV CABLE TELEVISION

**CASEY'S GENERAL STORES**  
**S DOWNEY STREET & TIDEWATER DRIVE**  
**WEST BRANCH, IOWA**

DATE: 02-24-2014	BY: E. JONDLE	SCALE: NTS	PROJECT: 02-24-2014	SHEET: 14-008
COVER				



**LEGAL DESCRIPTION:**

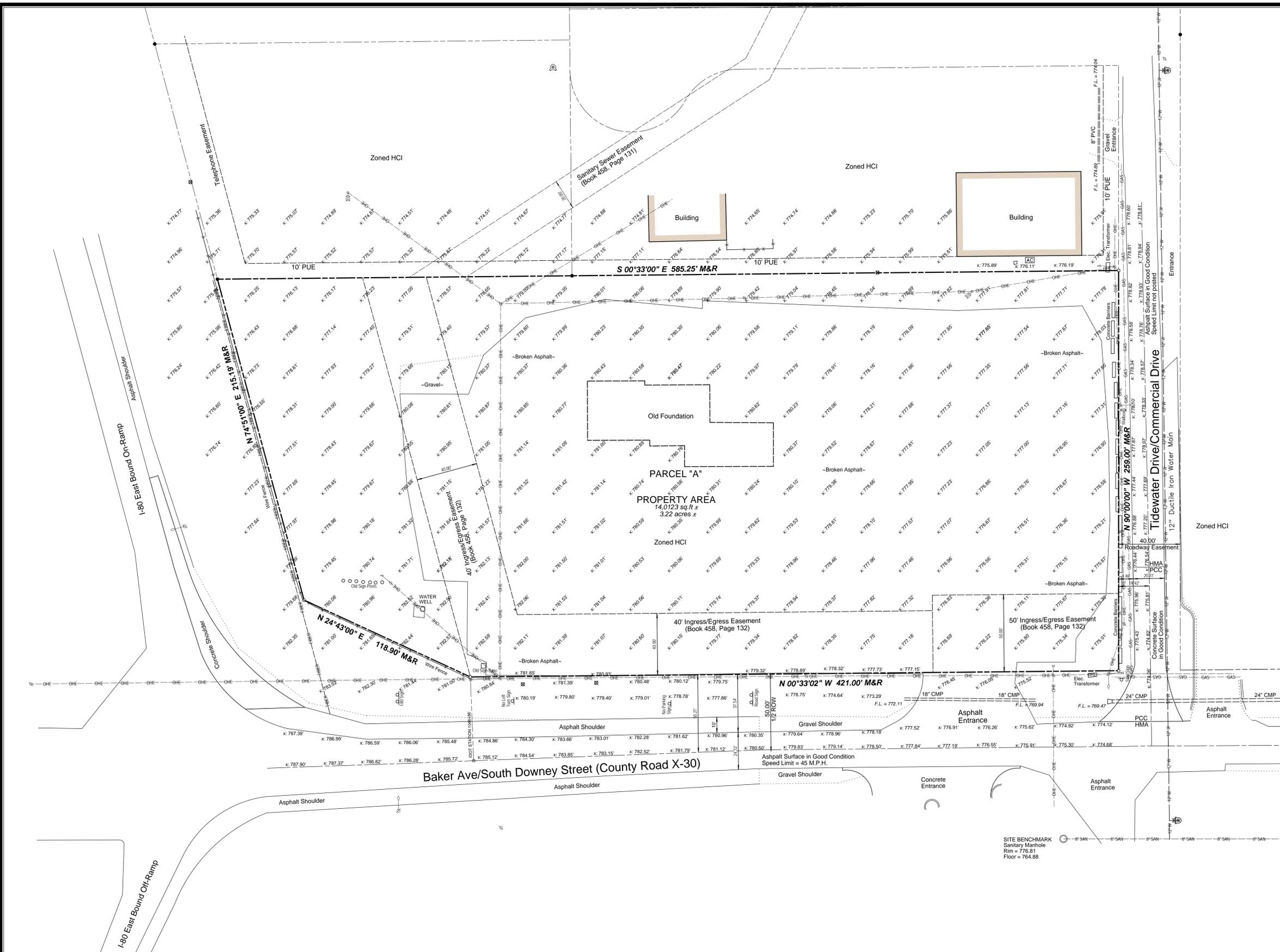
The West 259.00 feet of a parcel of land in the North 1/2 of the Southwest 1/4 of Section 8, T 79N, R 4W of the 5th P.M. in Cedar County, Iowa as recorded in Plat Book 5, Page 320 in the Auditor's Office of Cedar County, Iowa, except the South 40.00 feet thereof more particularly described as follows:

COMMENCING at a point of reference at the Southwest Corner of the North 1/2 of the Southwest 1/4 of said Section 8; THENCE N 90° 00' 00" E, 50.00 feet along the South line of said North 1/2 to a found 5/8" iron pin at a point of intersection with the Easterly Right-of-Way line of County Road "D"; THENCE N 0° 33' 00" W, 304.00 feet along said Easterly Right-of-Way line to an iron pin being the POINT OF BEGINNING of Parcel "A"; THENCE N 90° 00' 00" E, 259.00 feet to an iron pin; THENCE N 0° 33' 00" W, 585.25 feet to an iron pin along the southerly Right-of-Way line of Interstate 80; THENCE S 74° 51' 00" W, 215.19 feet along said Southerly Right-of-Way line to an iron rail; THENCE S 24° 43' 00" W, 118.90 feet along said Southerly Right-of-Way line to an iron rail along the said Easterly Right-of-Way line of County Road "D"; THENCE S 0° 33' 00" E, 421.00 feet to the POINT OF BEGINNING; and subject to easements of record, and containing 3.21 acres.

**Zoning Information**

CURRENT ZONING	HCI - HIGHWAY COMMERCIAL INDUSTRIAL	STATUS	SOURCE INFORMATION
CURRENT USE	VACANT		City of West Branch
ITEM	REQUIRED	OBSERVED	ADDRESS: 110 N Poplar St P.O. Box 218 West Branch, Iowa 52358
MINIMUM LOT AREA	....	14,0123 sq. ft (3.22 ac.)	
MINIMUM FRONTAGE	....	259 ft	PERSON CONTACTED: Matt Muckler
MINIMUM LOT WIDTH	....	259 ft	DATE CONDUCTED: 5-1-2012
MAX. FLOOR AREA RATIO	....	....	PHONE NUMBER: 319-643-5888
MINIMUM SETBACKS FRONT	25 ft	....	EMAIL ADDRESS: matt@westbranchiowa.org
MINIMUM SETBACKS CORNER SIDE	None	....	NOTES: The Property is located in SW1/4 Section 8-79-04 Iowa One Call Design Ticket #55120118 The Subject site is in Zone C, per FEMA maps for Cedar County Community #1900508
MINIMUM SETBACKS INTERIOR SIDE	None	....	
MINIMUM SETBACKS REAR	None	....	
MAX. BUILDING HEIGHT	*50 ft	....	
REQUIRED PARKING	-1/2000 SF GFA	....	

\* The 35 foot maximum building height requirement can be raised to 50 feet, provided the building setback is adjusted 1:1 with every foot above 35 feet.



**A. LEO PELDS ENGINEERING COMPANY**  
Engineering | Planning | Surveying  
2323 Dixon Street, Des Moines, IA 50316 - P.O. Box 4626, Des Moines, IA 50305 - P: (515) 265-8196 F: (515) 266-2259

**EXISTING UTILITIES NOTE:**  
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**DISCLAIMER:**  
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**LEGEND:**

**STANDARD SYMBOLS:**

- IRON ROD OR PIPE FOUND
- CALCULATED CORNER
- ▲ SECT. COR. MONUMENT FOUND
- △ SECT. COR. MONUMENT CALC.
- ⊕ POWER POLE
- ⊙ LIGHT POLE
- ⊞ FINISHED FLOOR
- +/- FENCE LINE
- ⊕ FIRE HYDRANT
- ⊕ SANITARY SEWER MANHOLE
- ⊕ STORM SEWER MANHOLE
- ⊕ VALVE
- 125.3 SPOT ELEVATION (@ x)
- N.T.S. NOT TO SCALE
- H.M.A. HOT MIX ASPHALT
- ⊕ TELEPHONE PEDISTAL
- P.C.C. PORTLAND CEMENT CONCRETE
- xxx UTILITY LINE OR PIPE
- W WATER
- G GAS
- S SANITARY SEWER
- ST STORM SEWER
- UG/T UNDERGROUND ELEC. / TEL.
- OHE/T OVERHEAD ELEC. / TEL.
- CATV CABLE TELEVISION

I HEREBY CERTIFY THAT THIS LAND SURVEYING DOCUMENT WAS PREPARED AND THE RELATED WORK WAS PERFORMED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF IOWA.

AIVARS LEO PELDS, P.E. & L.S. IA, L.I.C. NO. 4640 DATE MY LICENSE RENEWAL DATE IS DECEMBER 31, 2013  
ADDITIONAL PAGES OR SHEETS COVERED BY THIS SEAL (NONE UNLESS INDICATED HERE):

**CASEY'S GENERAL STORES**  
**SOUTH DOWNEY STREET**  
**WEST BRANCH, IOWA**

Sanitary Manhole West of Site  
Elevation = 776.81 (NAVD88 per county BM #6008 TBM)

DATE: 05-11-2012	DRAWN BY: E. PELDS	SCALE: 1" = 30'	DATE: 05-11-2012	PROJECT: 12011
------------------	--------------------	-----------------	------------------	----------------

TOPO

## General Construction Notes

- 1.) 2 - 20,000 GALLON DOUBLE WALL FIBERGLASS CONTAINMENT SOLUTION TANKS.  
TANK 1-20,000 GALLON (89E) 10'-6"x38'-3"  
TANK 2-12,000 GALLON (DIESEL) 10'-6"x23'-6"  
TANK 3-8,000 GALLON (87N) 10'-6"x14'-6"  
PREMIUM SUPER UNLEADED GASOLINE PRODUCTS
- 2.) TANK SETTING DETAILS PAGE QF-301
- 3.) FILL PIPE AND MANHOLE DETAIL PAGE QF-301
- 4.) CIRCUIT BREAKER PANEL PAGE E-501
- 5.) REFRIGERATION WIRING PAGE QR-601, QR-602, QR-603
- 6.) GILBARCO WIRING PAGE QF-601
- 7.) ISLAND SIZE - 8 @ 3"x5" WIDUAL GUARD PIPE
- 8.) 8 - GILBARCO 700 S DISPENSERS  
4=NN1 2 NOZZLES & 4 METERS EACH  
4=NL1 4 NOZZLES & 6 METERS EACH
- 9.) ISLAND DETAILS PAGE AL-501
- 10.) ISLAND CONDUIT DETAIL PAGE E-602
- 11.) DO NOT PLACE PRODUCT PIPING UNDER ISLAND
- 12.) 18" MIN. FROM TANK PIPING TO FINISH SURFACE
- 13.) SIGN BASE DETAILS PAGE AL-601
- 14.) SIGN DETAILS PAGE AL-601
- 15.) DRIVEWAY JOINTS TO BE PACKED & CAULKED
- 16.) CONCRETE DRIVE TROWELED WITH LIGHT BROOM FINISH
- 17.) CONTROL JOINTS - MIN. 100 sq.ft. - MAX. 125 sq.ft. - 25% DEEP
- 18.) CONSTRUCTION JOINTS - FINISHED 4" C.C. 12" EACH WAY WITH 1/2" REBAR #4
- 19.) APPROACHES TO BE 7" NON-REINFORCED OR AS PER STATE/CITY SPEC.
- 20.) SLOPE RAMPS FOR BUILDING SIDEWALK 1:20 H.C PARKING 1:50 ALL DIRECTIONS  
ALL ACCESS ISLE STRIPING AT 45 DEGREE ANGLE BEING MAX. 4' SEPARATION
- 21.) RUN VENT LINES UP SEPARATE CANOPY COLUMN. VERIFY
- 22.) VERIFY ALL UTILITY LOCATIONS AND DIMENSIONS.
- 23.) CANOPY FOOTING: SIZE 6'-3" LENGTH X 6'-3" WIDTH X 3'-0" DEPTH.  
CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF FC-3000 p.s.i.  
CONCRETE REINFORCING: ASTM A-615 GRADE 60.  
REBAR CAGE: (8) #6 HORIZONTAL TIES LENGTH WISE TOP AND BOTTOM  
12" MAXIMUM SPACING.
- 24.) ALL FUEL DISPENSERS FALL WITHIN A 100 FOOT RADIUS OF THE EMERGENCY SHUT-OFF SWITCH LOCATED ON A POST AT THE CURB. A SECONDARY SHUT-OFF LOCATED INSIDE AT THE SALES COUNTER FOR THE CONVENIENCE OF STAFF.

## Keyed Construction Notes

NOTICE: ALL WORK IN/ON THE R.O.W. AREA IS SUBJECT TO THE CITY OF WEST BRANCH, IA, & CEDAR COUNTY APPROVAL AND SPECIFICATIONS.

- (A) PROPOSED 35' RADIUS
- (B) PROPOSED 30' RADIUS
- (C) PROPOSED 20' RADIUS
- (D) PROPOSED 5' RADIUS
- (E) 2" CONCRETE STUB. TAPER CURB. TIE INTO EXISTING PAVEMENT
- (F) REMOVE EXISTING APPROACH.
- (G) 2% MAX. CROSS-SLOPE IN SIDEWALK AREA.

## Legal Description:

The West 259.00 feet of a parcel of land in the North 1/2 of the Southwest 1/4 of Section 8, T. 79N, R. 4W of the 5th P.M. in Cedar County, Iowa as recorded in Plat Book 5, Page 320 in the Auditor's Office of Cedar County, Iowa, except the South 40.00 feet thereof more particularly described as follows:

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## U.G.S.T. Notes

- (F) FILL CATCH BASIN W/ OVERSPILL PROTECTION (TYP.)
- (1)(2)(3) TURBINE ENCLOSURE TYP. CONTAINS; SUB-PUMP W/LINE DETECTION, TANK PROBE FOR FUEL MONITORING, INCLUDING THE INTERSTITIAL SENSOR AND TANK SUMP SENSOR
- (V) VENT EXTRACTOR W/BALL FLOAT FOR OVERFILL PROTECTION  
SUMP SENSOR @ EACH DISPENSER.

## Legend

- ▲ MARKED PARKING SPACES (PAINT LINES AS INDICATED)
- ▲ GASOLINE PUMP PARKING SPACES (DO NOT PAINT LINES OR OTHERWISE MARK)
- CONCRETE PAVING OR SIDEWALKS
- AREA TO BE SODDED OR SEEDED
- ◆ AREA LIGHTS (9 SHOWN) REFER TO LIGHTING PLAN RL-1466-S1 DONE BY RED LEONARD

## General Notes

1. RELATED SHEETS: FOR ADDITIONAL INFORMATION NOT DIRECTLY REFERENCED, SEE CIVIL SHEETS DONE BY PELDS ENGINEERING:  
COVER SHEET: (02-24-14)  
TOPO SURVEY: (05-11-12)  
SITE PLAN: (09-18-13)  
GRADING PLAN: (02-24-14)  
UTILITY PLAN: (02-24-14)  
LANDSCAPE PLAN: (02-24-14)

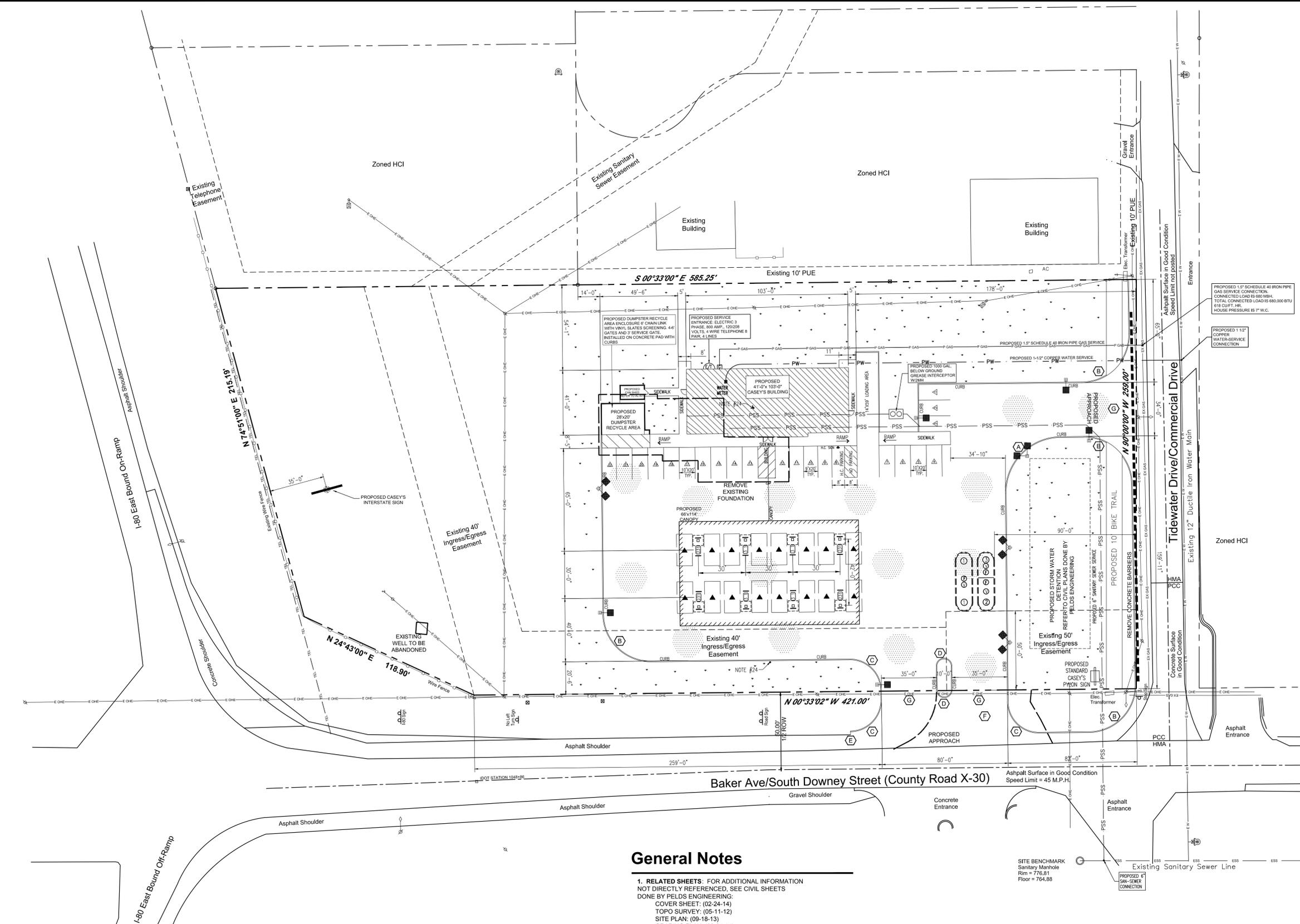
- PUBLIC IMPROVEMENT PLANS DONE BY PELDS ENGINEERING:  
GRADING: (02-14-14)  
S. DOWNEY PLAN & PROFILE: (02-24-14)  
TIDEWATER DRIVE PLAN & PROFILE: (02-24-14)  
DIVISION STREET PLAN & PROFILE: (02-24-14)

NOTE:  
SYMBOL INDICATES EXISTING UTILITY TO EXISTING STRUCTURE TO BE REMOVED OR DISCONNECTED BY APPROPRIATE CONTRACTOR. VERIFY WITH UTILITY COMPANY REPRESENTATIVE.

### Zoning Information

CURRENT ZONING	HCI - HIGHWAY COMMERCIAL INDUSTRIAL	VACANT	STATUS	SOURCE INFORMATION	City of West Branch
ITEM	REQUIRED	OBSERVED	ADDRESS	110 N. Poplar St	P.O. Box 218 West Branch, Iowa 52358
MINIMUM LOT AREA	140,123 sq.ft. (3.22 AC)		PERSON CONTACTED	Matt Muckler	5-1-2012
MINIMUM FRONTAGE	259 FT		PHONE NUMBER	319-643-8888	
MINIMUM LOT WIDTH	259 FT		E-MAIL ADDRESS	matt@westbranchowa.org	
MAX FLOOR AREA RATIO	25 FT		NOTES		The Property is located in SW1/4 Section 8-79-04
MINIMUM SETBACKS	None				Iowa One Call Design Ticket #5520118
MINIMUM SETBACKS	None				The Subject site is in Zone C, per FEMA maps for Cedar County Community #1900508
MINIMUM SETBACKS	None				
MAX BUILDING HEIGHT	*50 FT				
REQUIRED PARKING	~1/200 SF GFA				

\* The 35 foot maximum building height requirement can be raised to 50 feet, provided the building setback is adjusted 1:1 with every foot above 35 feet.

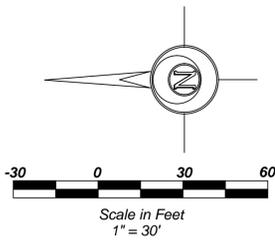


VICINITY MAP

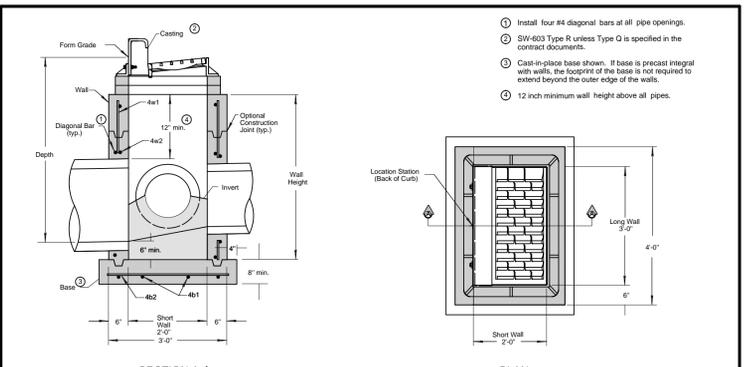
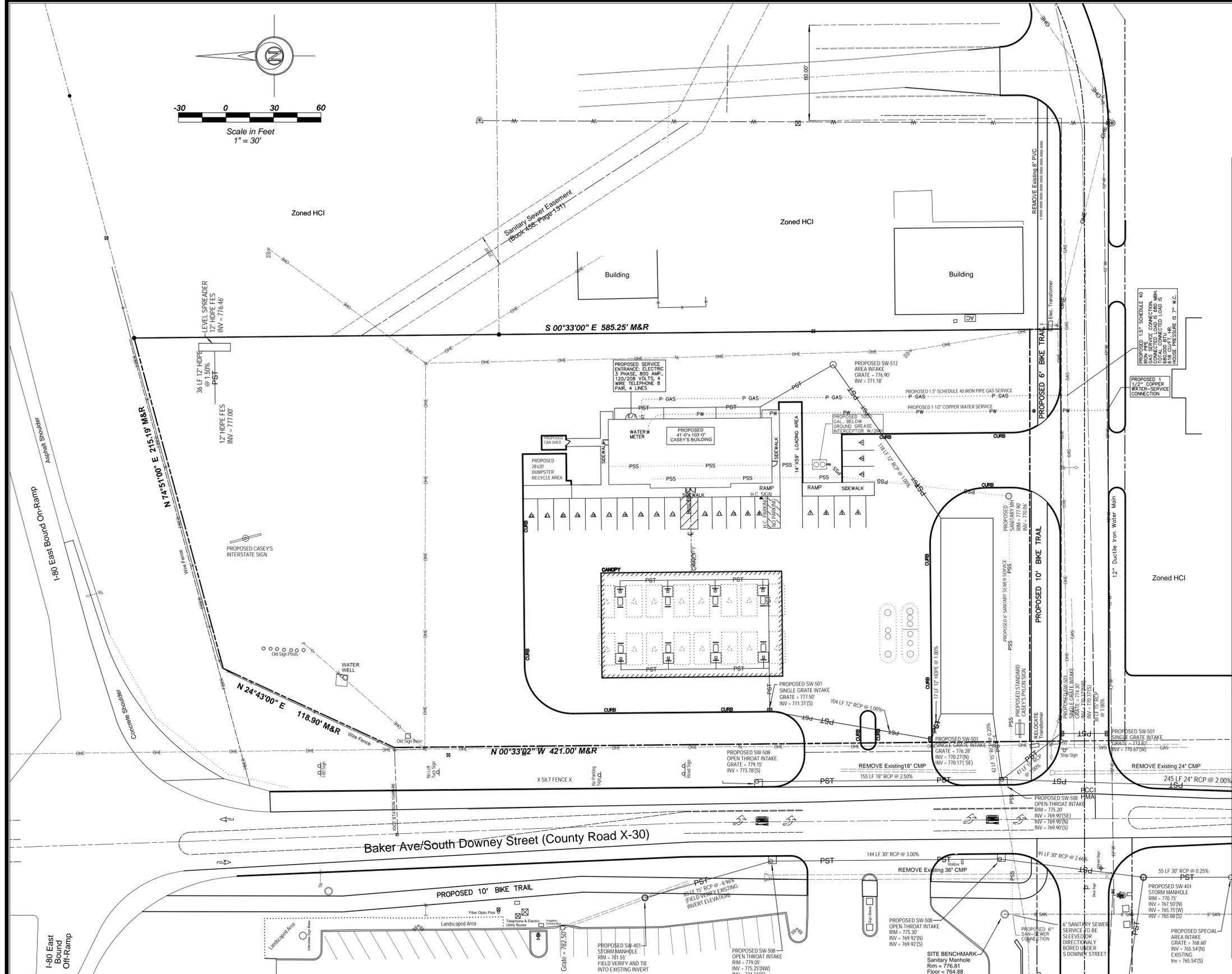
**A1** Site Layout Plan  
1" = 30'

		<b>SITE PLAN</b> AL-101
<b>CASEY'S CONSTRUCTION DIVISION</b> One Convenience Blvd., P.O. Box 3001, Ankeny, IA. 50021 515-965-6100		
PROJECT: 615 S. DOWNEY STREET WEST BRANCH, IA. "O2" STYLE STORE	PUBLISHED: 07-13-12 PERMITTED: 10-02-12 10-25-12 05-23-13 08-29-13 09-13-13 02-28-14	DRAWING INFORMATION CONSTRUCTION DIVISION DRAWN BY: L. BURKE CHECKED BY:





- UTILITY NOTES:
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  2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UTILITY COMPANIES PRIOR TO CONNECTION OR DISCONNECTION OF A SERVICE LINE.
  3. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE SURFACE FEATURES SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.



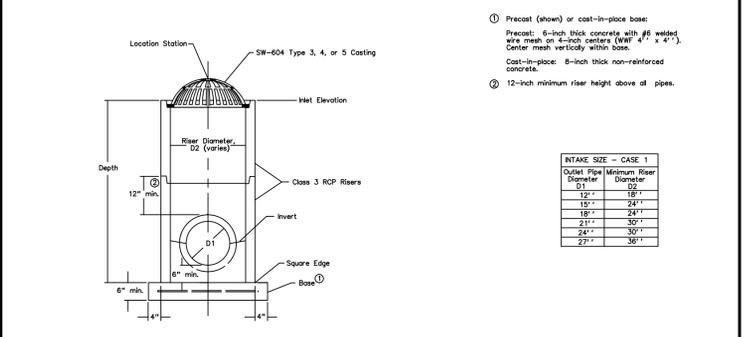
REINFORCING BAR LIST

Mark	Size	Location	Shape	Length	Count	Spacing
4w1	4	Walls	Wall Height minus 4"	14	12"	
4w2	4	Long Walls	Varies	Varies	12"	
4w3	4	Short Walls	Varies	Varies	12"	
4b1	4	Base	4'-2"	4	10"	
4b2	4	Base	2'-2"	5	10"	

MAXIMUM PIPE DIAMETERS

Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	15"	15"
Long Wall	24"	30"

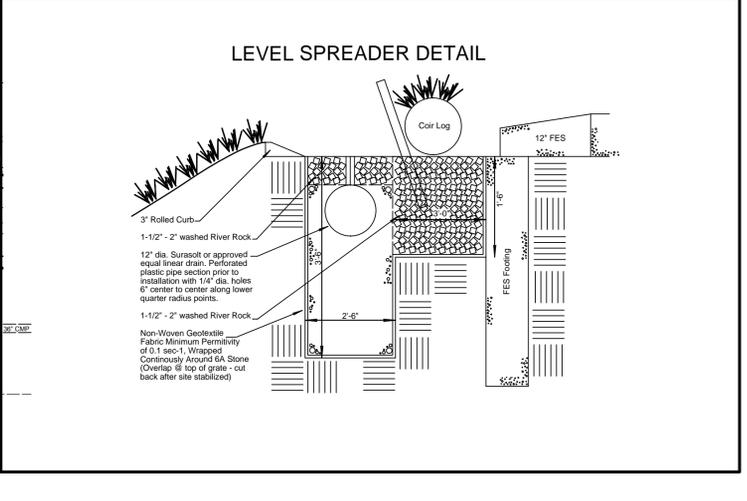
SINGLE GRATE INTAKE



INTAKE SIZE - CASE 1

Outlet Pipe Diameter	Minimum Riser Diameter
15"	18"
18"	24"
21"	30"
24"	36"

CIRCULAR AREA INTAKE



- LEGEND:
- STANDARD SYMBOLS:
- IRON ROD OR PIPE FOUND
  - CALCULATED CORNER
  - △ SECT. COR. MONUMENT FOUND
  - ▲ SECT. COR. MONUMENT CALC.
  - ⊙ POWER POLE
  - ⊙ LIGHT POLE
  - F.F. FINISHED FLOOR
  - +/- MORE OR LESS
  - FIRE HYDRANT
  - SANITARY SEWER MANHOLE
  - STORM SEWER MANHOLE
  - VALVE
  - SPOT ELEVATION (@ x)
  - NOT TO SCALE
  - HOT MIX ASPHALT
  - P.C.C. PORTLAND CEMENT CONCRETE
  - x---x---x--- UTILITY LINE OR PIPE
  - W WATER
  - GAS GAS
  - SAN SANITARY SEWER
  - ST STORM SEWER
  - U/E/T UNDERGROUND ELEC. / TEL.
  - O/H/E/T OVERHEAD ELEC. / TEL.
  - CATV CABLE TELEVISION

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**CASEY'S GENERAL STORES  
SOUTH DOWNEY STREET  
WEST BRANCH, IOWA**

Sanitary Manhole West of Site  
Elevation = 776.81' (NAVD88 per county BM #6008 TBM)

DATE: 02-24-2014 BY: E. JONDLER SCALE: 1" = 30' DATE: 02-28-2014 DRAWN BY: 13-062

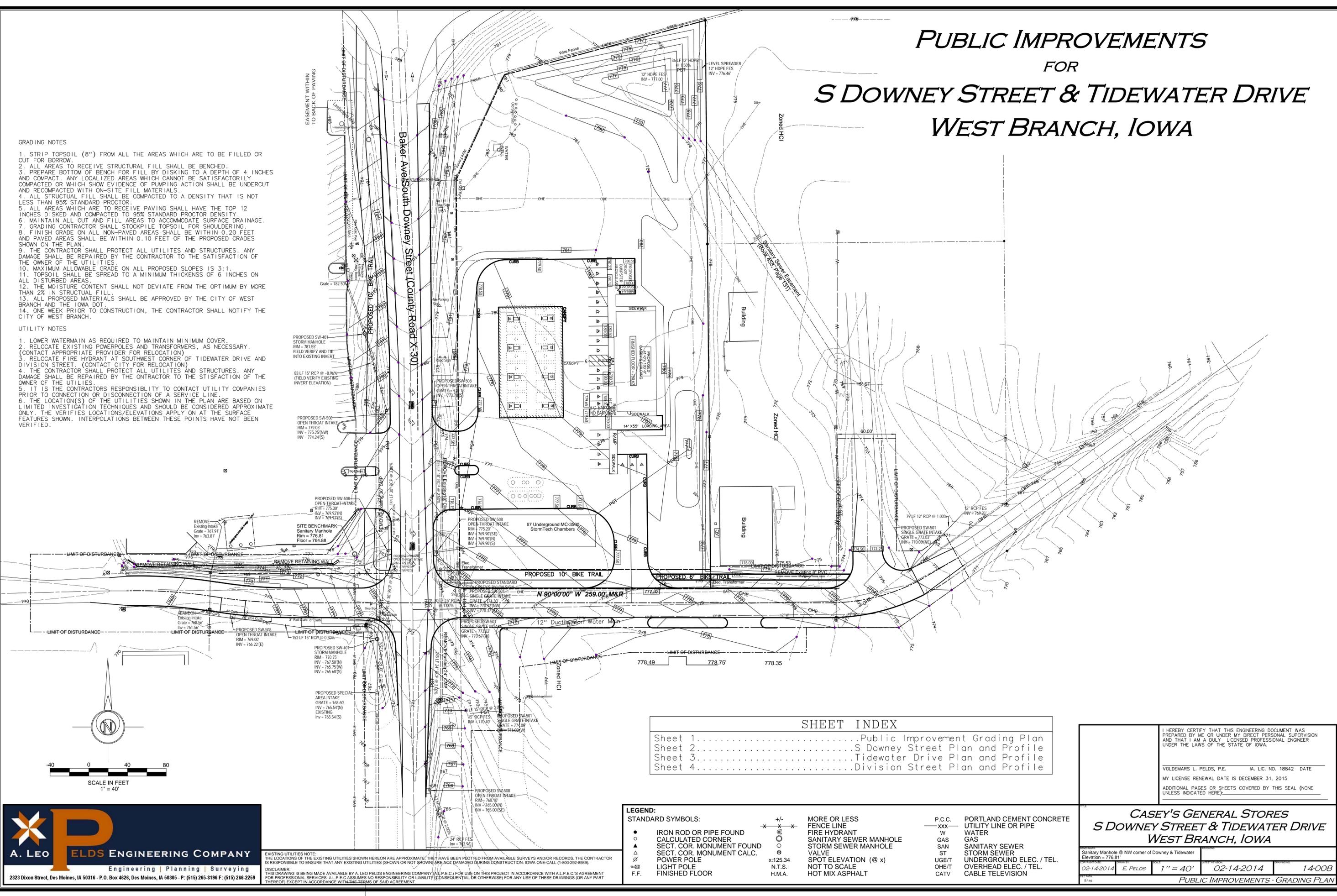
UTILITY PLAN



# PUBLIC IMPROVEMENTS FOR S Downey Street & Tidewater Drive West Branch, Iowa

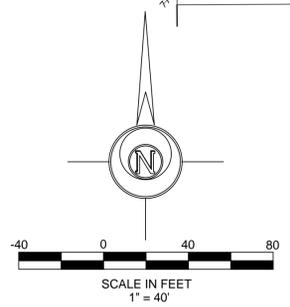
- GRADING NOTES**
1. STRIP TOPSOIL (8") FROM ALL THE AREAS WHICH ARE TO BE FILLED OR CUT FOR BORROW.
  2. ALL AREAS TO RECEIVE STRUCTURAL FILL SHALL BE BENCHED.
  3. PREPARE BOTTOM OF BENCH FOR FILL BY DISKING TO A DEPTH OF 4 INCHES AND COMPACT. ANY LOCALIZED AREAS WHICH CANNOT BE SATISFACTORILY COMPACTED OR WHICH SHOW EVIDENCE OF PUMPING ACTION SHALL BE UNDERCUT AND RECOMPACTED WITH ON-SITE FILL MATERIALS.
  4. ALL STRUCTURAL FILL SHALL BE COMPACTED TO A DENSITY THAT IS NOT LESS THAN 95% STANDARD PROCTOR.
  5. ALL AREAS WHICH ARE TO RECEIVE PAVING SHALL HAVE THE TOP 12 INCHES DISKED AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
  6. MAINTAIN ALL CUT AND FILL AREAS TO ACCOMMODATE SURFACE DRAINAGE.
  7. GRADING CONTRACTOR SHALL STOCKPILE TOPSOIL FOR SHOULDERING.
  8. FINISH GRADE ON ALL NON-PAVED AREAS SHALL BE WITHIN 0.20 FEET AND PAVED AREAS SHALL BE WITHIN 0.10 FEET OF THE PROPOSED GRADES SHOWN ON THE PLAN.
  9. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND STRUCTURES. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER OF THE UTILITIES.
  10. MAXIMUM ALLOWABLE GRADE ON ALL PROPOSED SLOPES IS 3:1.
  11. TOPSOIL SHALL BE SPREAD TO A MINIMUM THICKNESS OF 6 INCHES ON ALL DISTURBED AREAS.
  12. THE MOISTURE CONTENT SHALL NOT DEVIATE FROM THE OPTIMUM BY MORE THAN 2% IN STRUCTURAL FILL.
  13. ALL PROPOSED MATERIALS SHALL BE APPROVED BY THE CITY OF WEST BRANCH AND THE IOWA DOT.
  14. ONE WEEK PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF WEST BRANCH.

- UTILITY NOTES**
1. LOWER WATERMAIN AS REQUIRED TO MAINTAIN MINIMUM COVER.
  2. RELOCATE EXISTING POWERPOLES AND TRANSFORMERS, AS NECESSARY. (CONTACT APPROPRIATE PROVIDER FOR RELOCATION)
  3. RELOCATE FIRE HYDRANT AT SOUTHWEST CORNER OF TIDEWATER DRIVE AND DIVISION STREET. (CONTACT CITY FOR RELOCATION)
  4. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND STRUCTURES. ANY DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER OF THE UTILITIES.
  5. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT UTILITY COMPANIES PRIOR TO CONNECTION OR DISCONNECTION OF A SERVICE LINE.
  6. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLAN ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION LOCATIONS/ELEVATIONS APPLY ON AT THE SURFACE FEATURES SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.



**SHEET INDEX**

Sheet 1.....	Public Improvement Grading Plan
Sheet 2.....	S Downey Street Plan and Profile
Sheet 3.....	Tidewater Drive Plan and Profile
Sheet 4.....	Division Street Plan and Profile



**LEGEND:**

●	IRON ROD OR PIPE FOUND	+/-	MORE OR LESS	P.C.C.	PORTLAND CEMENT CONCRETE
○	CALCULATED CORNER	x - x - x	FENCE LINE	xxx	UTILITY LINE OR PIPE
△	SECT. COR. MONUMENT FOUND	⊕	FIRE HYDRANT	W	WATER
▲	SECT. COR. MONUMENT CALC.	⊙	SANITARY SEWER MANHOLE	GAS	GAS
⊕	POWER POLE	⊙	STORM SEWER MANHOLE	SAN	SANITARY SEWER
⊙	LIGHT POLE	⊙	VALVE	ST	STORM SEWER
⊙	FINISHED FLOOR	x:125.34	SPOT ELEVATION (@ x)	UGE/T	UNDERGROUND ELEC. / TEL.
		N.T.S.	NOT TO SCALE	OHE/T	OVERHEAD ELEC. / TEL.
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I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

VOLDEMARS L. PELDS, P.E. IA LIC. NO. 18842 DATE \_\_\_\_\_  
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2015  
ADDITIONAL PAGES OR SHEETS COVERED BY THIS SEAL (NONE UNLESS INDICATED HERE): \_\_\_\_\_

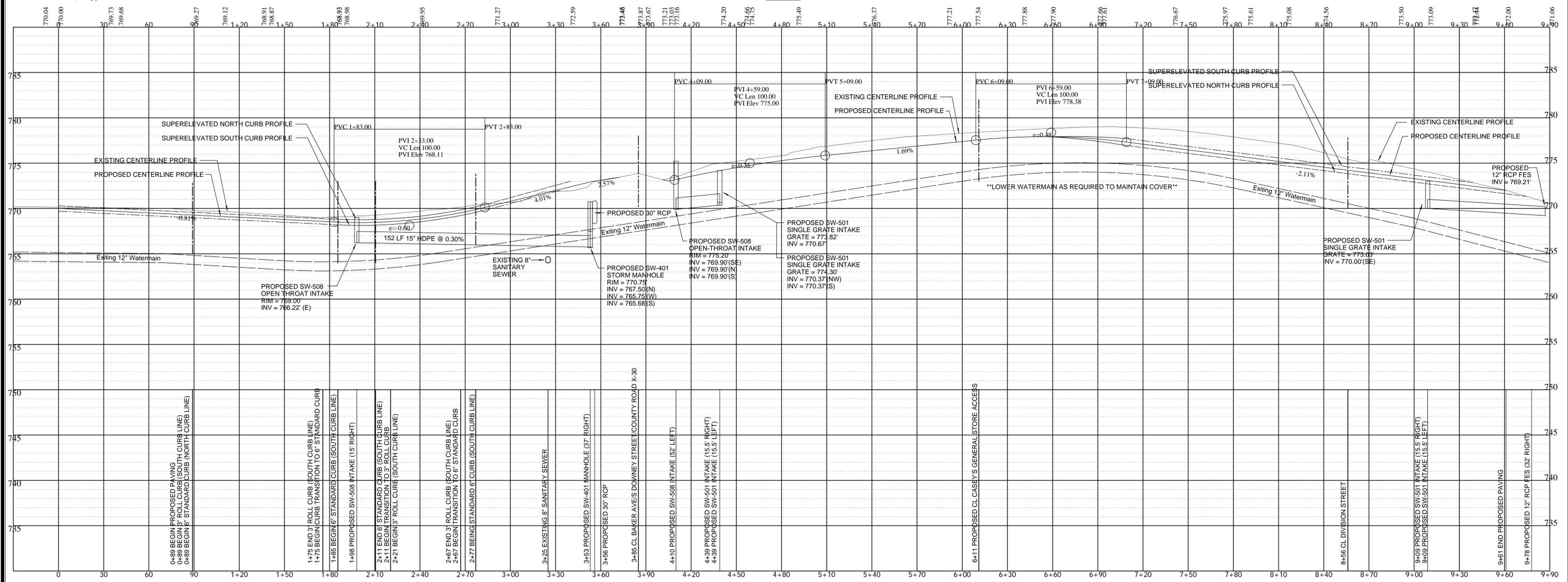
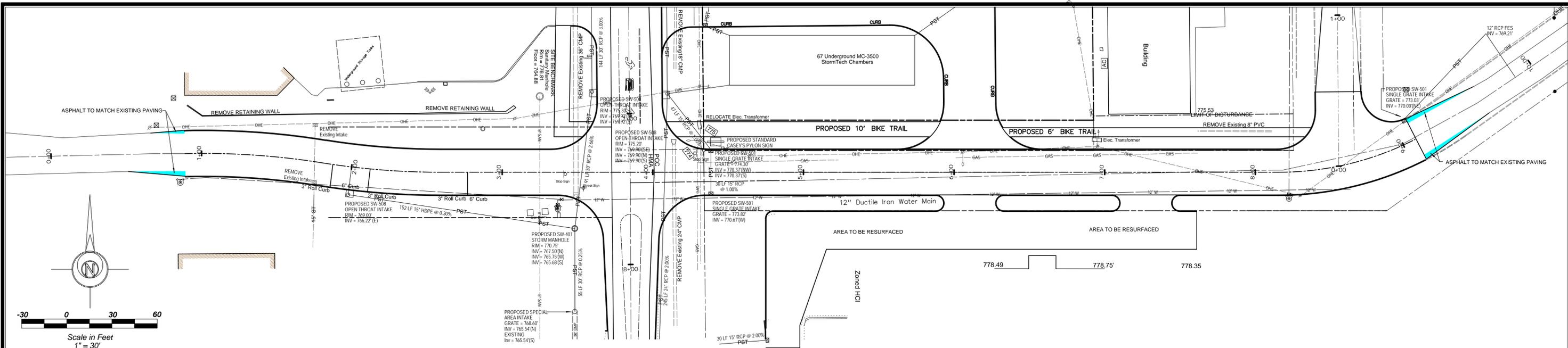
**CASEY'S GENERAL STORES**  
**S Downey Street & Tidewater Drive**  
**West Branch, Iowa**

Sanitary Manhole @ NW corner of Downey & Tidewater  
Elevation = 776.81'

DATE: 02-14-2014	BY: E. PELDS	SCALE: 1" = 40'	DATE: 02-14-2014	DATE: 14-008
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PUBLIC IMPROVEMENTS - GRADING PLAN





**A. LEO PELDS ENGINEERING COMPANY**  
 Engineering | Planning | Surveying  
 2323 Dixon Street, Des Moines, IA 50316 - P.O. Box 4626, Des Moines, IA 50305 - P: (515) 265-8196 F: (515) 266-2259

**EXISTING UTILITIES NOTE:**  
 THE LOCATIONS OF THE EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE. THEY HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND/OR RECORDS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ANY EXISTING UTILITIES (SHOWN OR NOT SHOWN) ARE NOT DAMAGED DURING CONSTRUCTION. IOWA ONE-CALL (1-800-292-8989).

**DISCLAIMER:**  
 THIS DRAWING IS BEING MADE AVAILABLE BY A. LEO PELDS ENGINEERING COMPANY (A.L.P.E.C.) FOR USE ON THIS PROJECT IN ACCORDANCE WITH A.L.P.E.C.'S AGREEMENT FOR PROFESSIONAL SERVICES. A.L.P.E.C. ASSUMES NO RESPONSIBILITY OR LIABILITY (CONSEQUENTIAL OR OTHERWISE) FOR ANY USE OF THESE DRAWINGS (OR ANY PART THEREOF) EXCEPT IN ACCORDANCE WITH THE TERMS OF SAID AGREEMENT.

**LEGEND:**

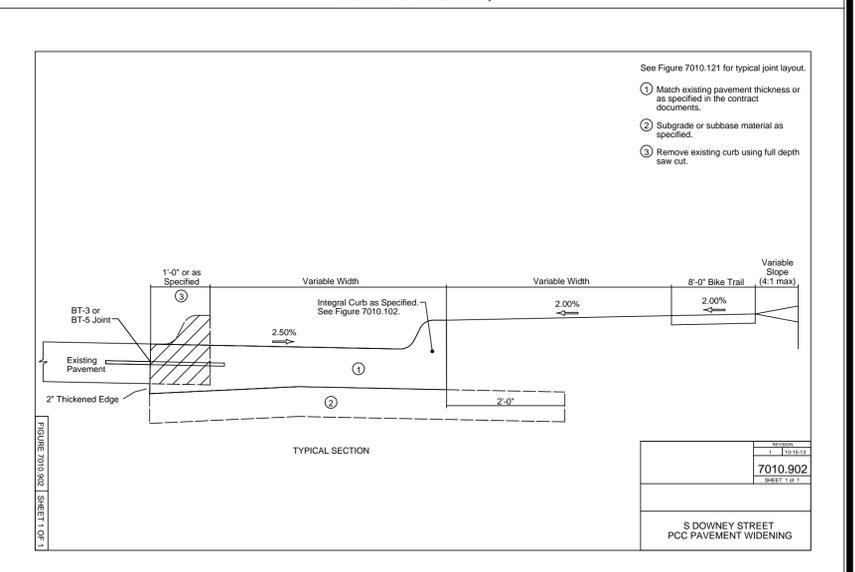
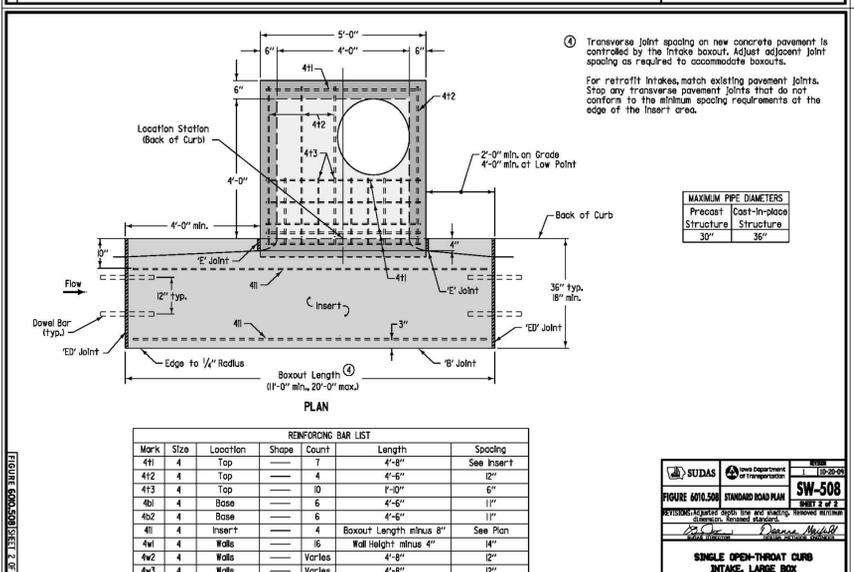
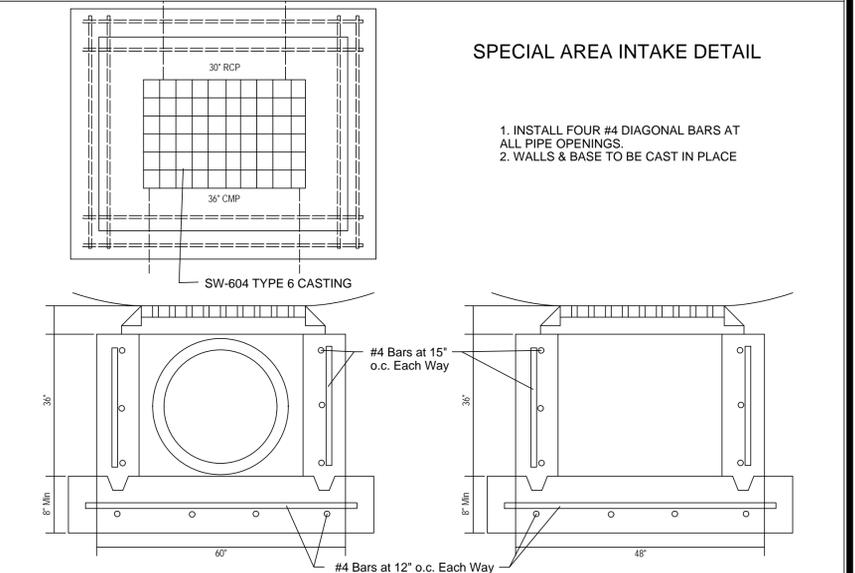
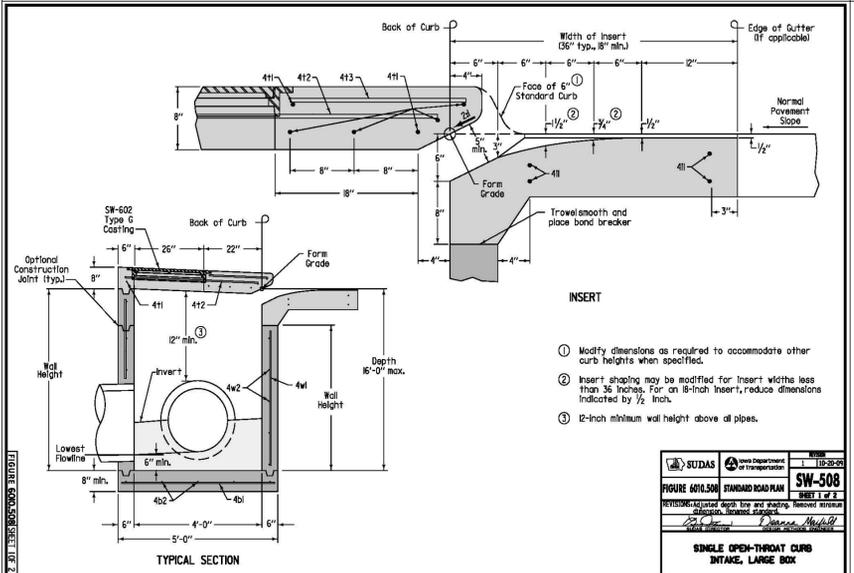
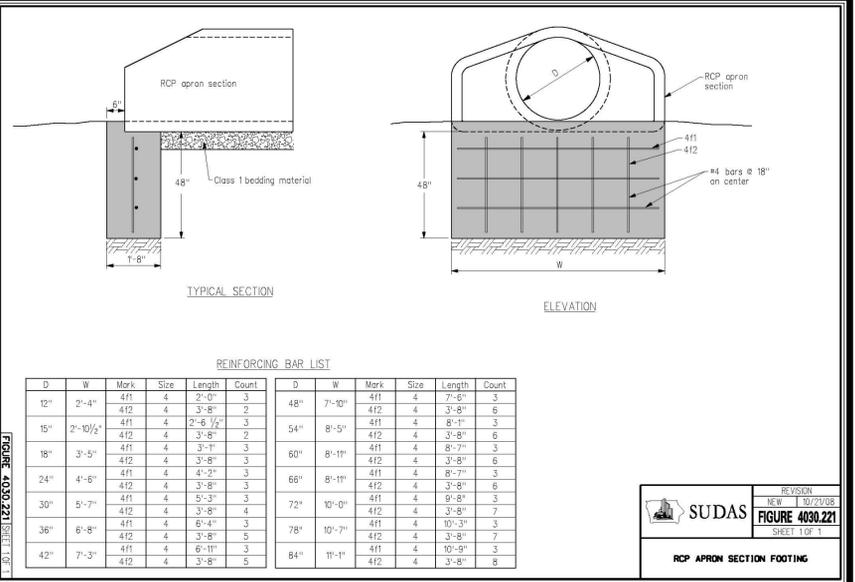
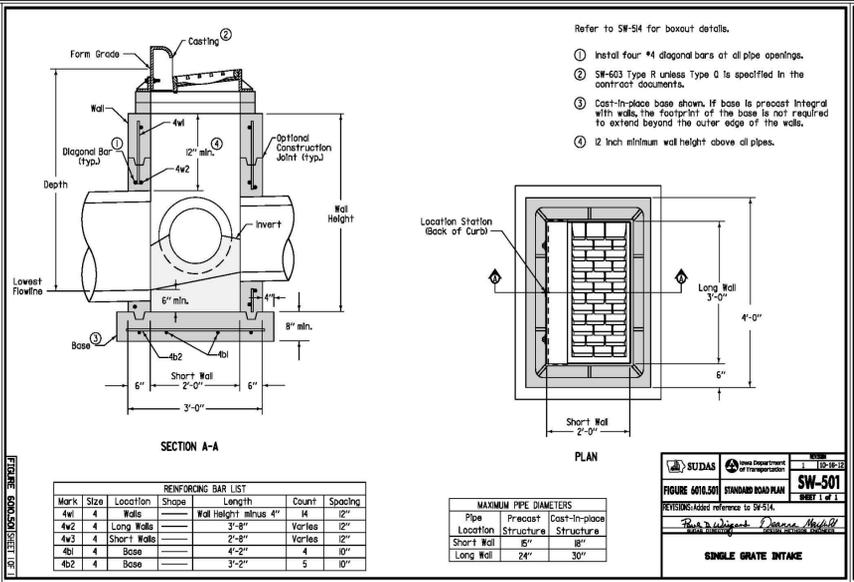
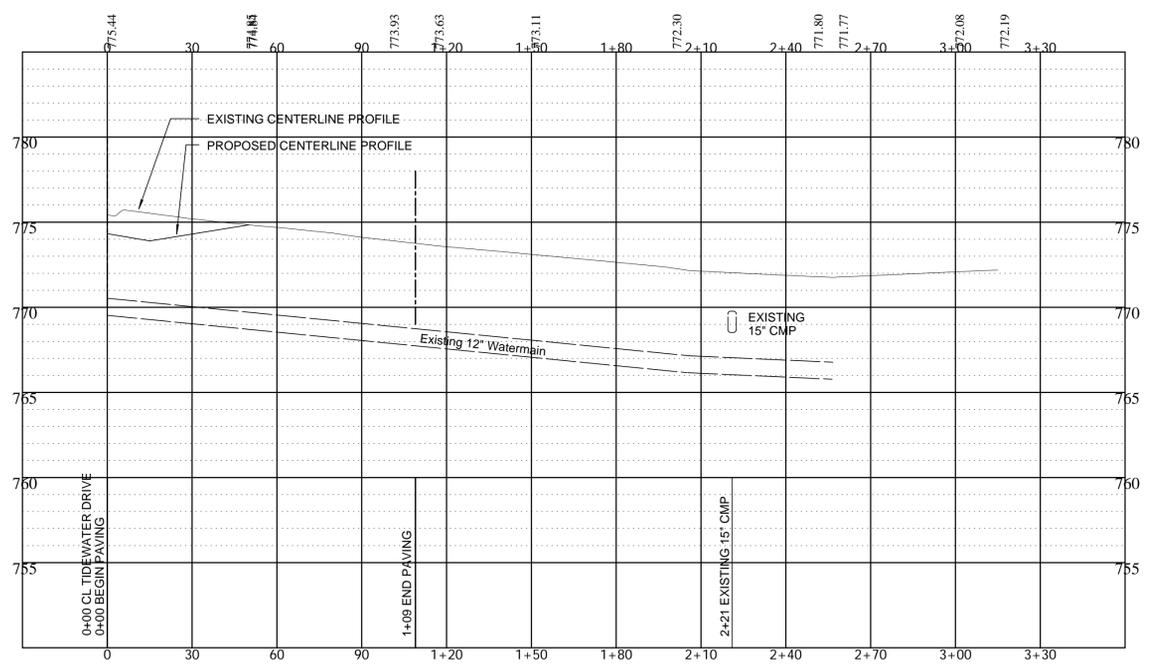
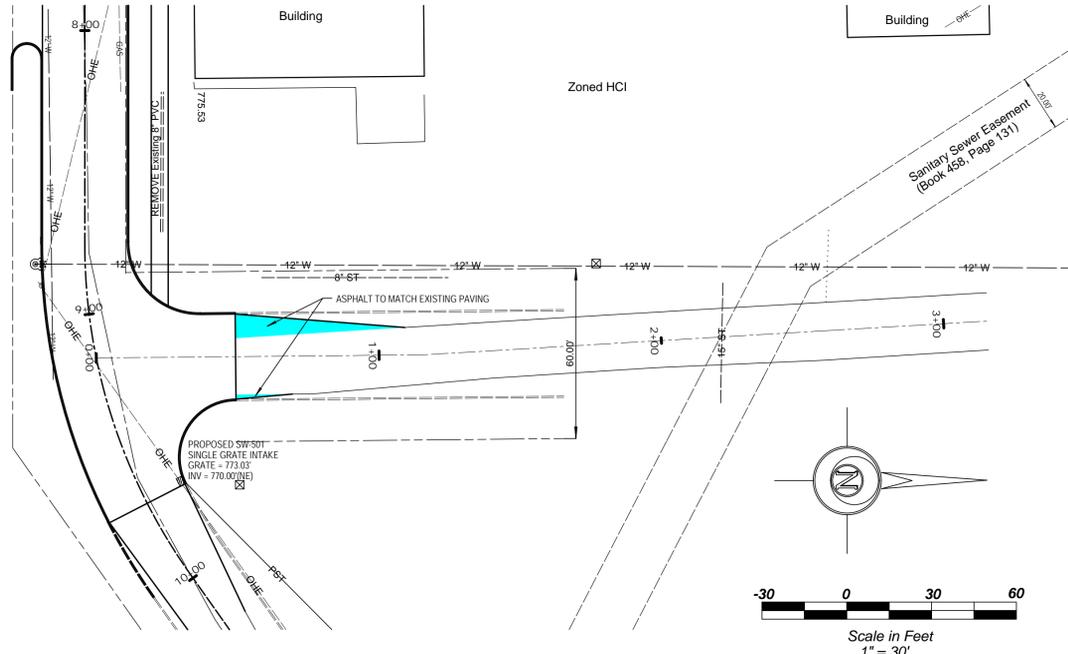
●	IRON ROD OR PIPE FOUND	+	MORE OR LESS	P.C.C.	PORTLAND CEMENT CONCRETE
○	FENCE LINE	-	FENCE LINE	—	UTILITY LINE OR PIPE
○	CALCULATED CORNER	+	FIRE HYDRANT	W	WATER
△	SECT. COR. MONUMENT FOUND	○	SANITARY SEWER MANHOLE	GAS	GAS
△	SECT. COR. MONUMENT CALC.	○	STORM SEWER MANHOLE	SAN	SANITARY SEWER
○	POWER POLE	○	VALVE	ST	STORM SEWER
○	LIGHT POLE	○	SPOT ELEVATION (@ x)	U/E/T	UNDERGROUND ELEC. / TEL.
F.F.	FINISHED FLOOR	x:125.34	NOT TO SCALE	O/H/T	OVERHEAD ELEC. / TEL.
		N.T.S.	HOT MIX ASPHALT	CATV	CABLE TELEVISION
		H.M.A.			

**CASEY'S GENERAL STORES**  
**S DOWNEY STREET & TIDEWATER DRIVE**  
**WEST BRANCH, IOWA**

Sanitary Manhole @ N/Wcorner of Downey & Tidewater  
 Elevation = 776.81'

DATE: 02/24/2014 BY: E. JONDLE SCALE: 1" = 30' DATE: 02-24-2014 DRAWING NO: 14-008

TIDEWATER DRIVE PLAN AND PROFILE



**A. LEO PELDS ENGINEERING COMPANY**  
Engineering | Planning | Surveying  
2323 Dixon Street, Des Moines, IA 50316 - P.O. Box 4626, Des Moines, IA 50305 - P: (515) 265-8196 F: (515) 266-2259

**LEGEND:**  
STANDARD SYMBOLS:

- IRON ROD OR PIPE FOUND
- CALCULATED CORNER
- ▲ SECT. COR. MONUMENT FOUND
- △ SECT. COR. MONUMENT CALC.
- POWER POLE
- LIGHT POLE
- FINISHED FLOOR

THIS DRAWING IS BEING MADE AVAILABLE BY A LEO PELDS ENGINEERING COMPANY (A.L.P.E.C.) FOR USE ON THIS PROJECT IN ACCORDANCE WITH A L.P.E.C. S AGREEMENT FOR PROFESSIONAL SERVICES. A.L.P.E.C. ASSUMES NO RESPONSIBILITY OR LIABILITY (CONSEQUENTIAL OR OTHERWISE) FOR ANY USE OF THESE DRAWINGS (OR ANY PART THEREOF) EXCEPT IN ACCORDANCE WITH THE TERMS OF SAID AGREEMENT.

**LEGEND:**  
STANDARD SYMBOLS:

- +/- MORE OR LESS
- x- FENCE LINE
- FIRE HYDRANT
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- VALVE
- SPOT ELEVATION (@ x)
- NOT TO SCALE
- HOT MIX ASPHALT

P.C.C. PORTLAND CEMENT CONCRETE  
UTILITY LINE OR PIPE  
WATER  
GAS  
SAN SANITARY SEWER  
ST STORM SEWER  
U/E/T UNDERGROUND ELEC. / TEL.  
O/H/E/T OVERHEAD ELEC. / TEL.  
CATV CABLE TELEVISION

**CASEY'S GENERAL STORES**  
**S DOWNEY STREET & TIDEWATER DRIVE**  
**WEST BRANCH, IOWA**

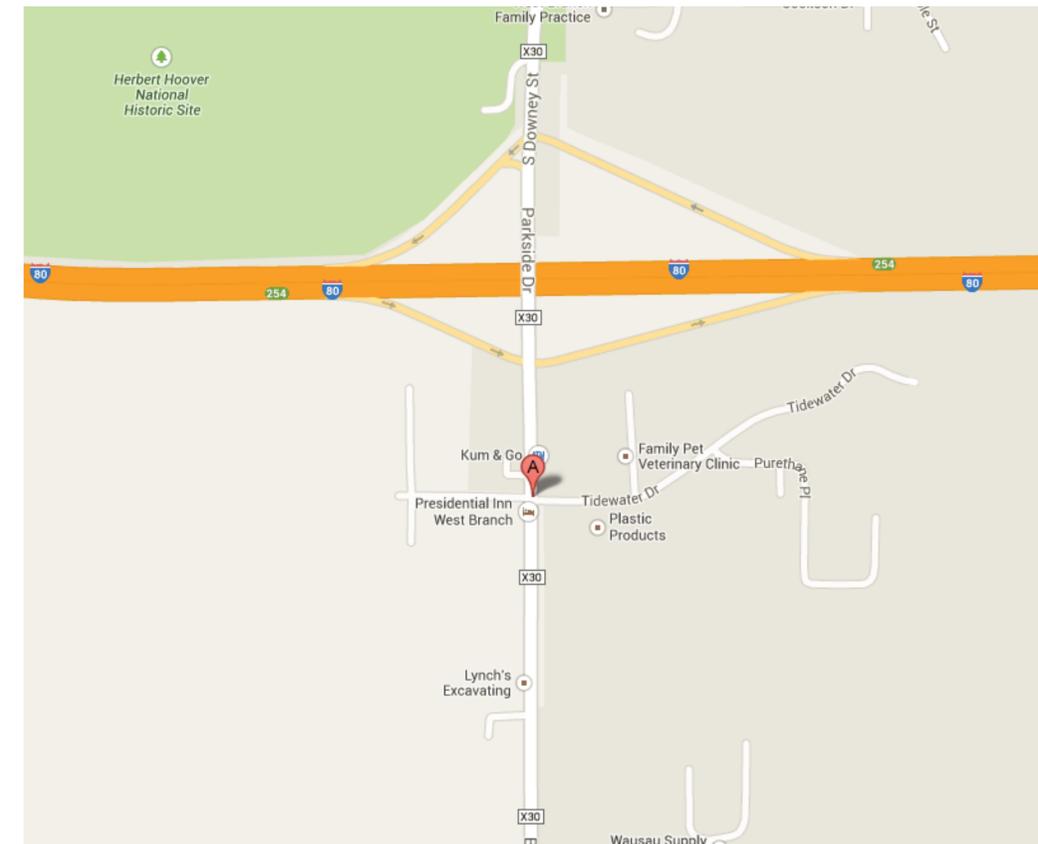
Sanitary Manhole @ N@ corner of Downey & Tidewater  
Elevation = 776.81'

DATE: 02-24-2014  
DRAWN BY: E. JONLE  
SCALE: 1" = 30'  
DATE: 02-24-2014  
PROJECT: 14-008  
DIVISION: STREET PLAN AND PROFILE



**EXTERIOR** LIGHTING APPLICATION

Building, canopy, dispenser & sign images for reference only. These images may vary. Any revisions to these images may not be reflected on this lighting application.



BACKER AVE & TIDEWATER DR  
WEST BRANCH, IA 52358

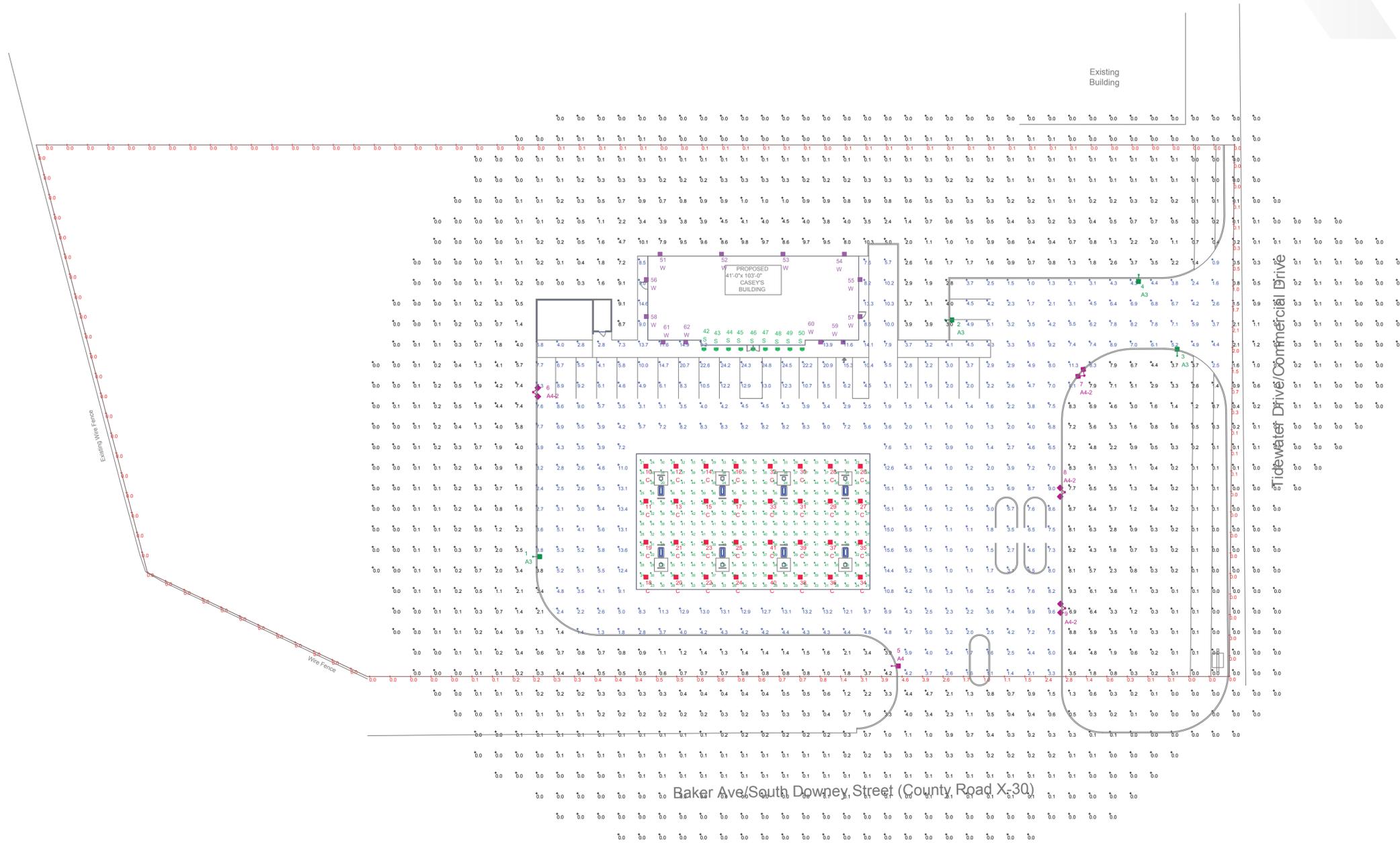


- 1. Exterior Photometric Application
- 2. Fixture Detail
- 3. Fixture Specification

T (513) 574-9500

5630 Bridgetown Rd. Ste. 2  
Cincinnati, Oh 45248

[www.redleonard.com](http://www.redleonard.com)



LUMINAIRE LOCATION SUMMARY

LUM NO.	LABEL	MTG. HEIGHT
1	A3	17
2	A3	17
3	A3	17
4	A3	17
5	A4	17
6	A4-2	17
7	A4-2	17
8	A4-2	17
9	A4-2	17
10	C	16.5
11	C	16.5
12	C	16.5
13	C	16.5
14	C	16.5
15	C	16.5
16	C	16.5
17	C	16.5
18	C	16.5
19	C	16.5
20	C	16.5
21	C	16.5
22	C	16.5
23	C	16.5
24	C	16.5
25	C	16.5
26	C	16.5
27	C	16.5
28	C	16.5
29	C	16.5
30	C	16.5
31	C	16.5
32	C	16.5
33	C	16.5
34	C	16.5
35	C	16.5
36	C	16.5
37	C	16.5
38	C	16.5
39	C	16.5
40	C	16.5
41	C	16.5
42	S	10
43	S	10
44	S	10
45	S	10
46	S	10
47	S	10
48	S	10
49	S	10
50	S	10
51	W	10
52	W	10
53	W	10
54	W	10
55	W	10
56	W	10
57	W	10
58	W	10
59	W	10
60	W	10
61	W	10
62	W	10

Symbol	Qty	Label	Arrangement	Lumens	LLF	Total Watts	Manufacturer	Description
	4	A3	SINGLE	10674	1.040	536	Cree Lighting	ARE-EDG-3M-DA-06-E-UL-BZ-700
	1	A4	SINGLE	11259	1.040	134	Cree Inc.	ARE-EDG-4M-DA-06-E-UL-BZ-700
	4	A4-2	2 @ 90 DEGREES	11259	1.040	1072	Cree Inc.	ARE-EDG-4M-DA-06-E-UL-BZ-700
	32	C	SINGLE	12020	1.040	4169.6	BETALED, A DIVISION OF RUUD LIGHTING	CAN-304-SL-RS-06-D-UL-WH-700
	9	S	SINGLE	3755	1.040	468	BETALED, A DIVISION OF RUUD LIGHTING	SFT-227-3M-RM-03-D-UL-BZ-525
	12	W	SINGLE	7519	1.040	1224	BETALED, A DIVISION OF RUUD LIGHTING	SEC-EDG-3M-WM-06-D-UL-BZ-525

FOOTCANDLES CALCULATED AT GRADE USING INITIAL LUMEN VALUES					
Label	Avg	Max	Min	Avg/Min	Max/Min
OVERALL	0.88	10.3	0.0	N.A.	N.A.
PAVED AREA	5.90	24.8	0.9	6.56	27.56
PROPERTY LINE	0.33	4.6	0.0	N.A.	N.A.
UNDER CANOPY	35.13	45	20	1.76	2.25

ALL AREA LIGHTS ON 15 FT. POLES MOUNTED ON 2 FT. CONCRETE BASES.

ILLUMINATION RESULTS SHOWN ON THIS LIGHTING APPLICATION ARE BASED ON PROJECT PARAMETERS PROVIDED BY THE MANUFACTURER LISTED. USED IN CONJUNCTION WITH LUMINAIRE TEST PROCEDURES CONDUCTED UNDER LABORATORY CONDITIONS. ACTUAL PROJECT CONDITIONS DIFFERING FROM THESE PARAMETERS MAY AFFECT FIELD RESULTS. THE CUSTOMER IS RESPONSIBLE FOR VERIFYING COMPLIANCE WITH ANY APPLICABLE ELECTRICAL, LIGHTING, OR ENERGY CODE.

FOR INFORMATIONAL AND ILLUSTRATION PURPOSES ONLY. ALL PRODUCT SERVICE AND CORPORATE NAMES ARE THE PROPERTY OF THEIR RESPECTIVE OWNERS. PRODUCT SPECIFICATIONS AND QUANTITIES MAY VARY. THESE DOCUMENTS ARE THE PROPERTY OF RED LEONARD ASSOCIATES, INC. ANY USE OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF JAMES J. LEONARD OF RED LEONARD ASSOCIATES, INC. IS STRICTLY PROHIBITED.

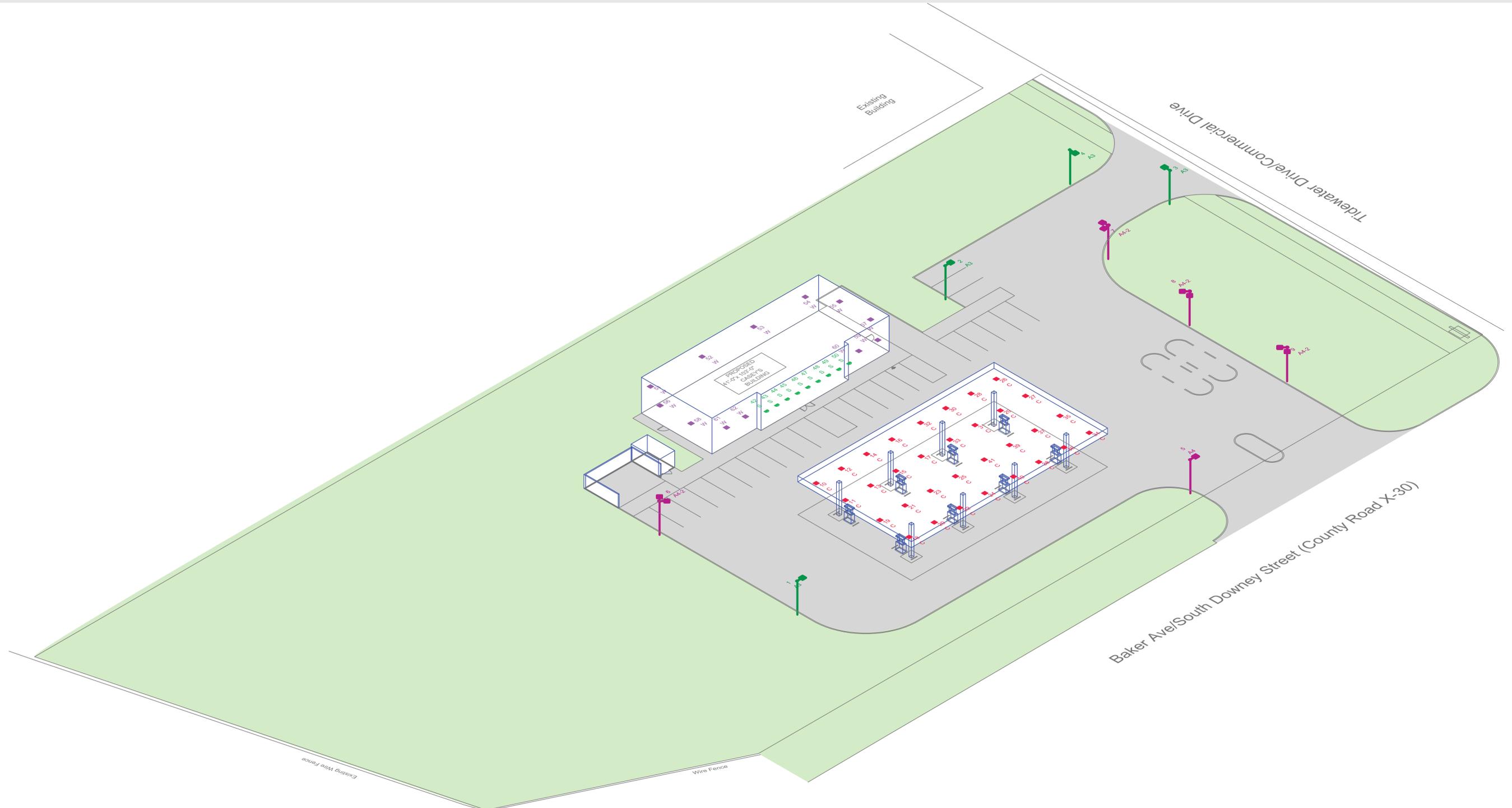
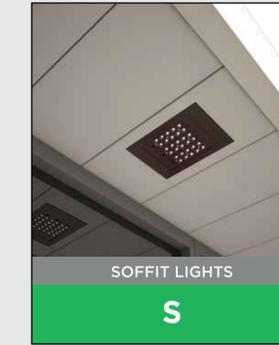
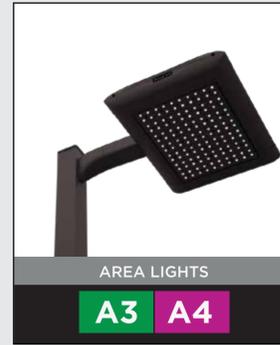
SCALE: 1" = 30'  
LAYOUT BY: JSG  
DWG SIZE: D  
DATE: 9/16/13

PROJECT NAME:  
**CASEY'S WEST BRANCH, IA**  
DRAWING NUMBER:  
**RL-1466-S1**





SCAN CODE  
www.redleonard.com



# AREA LIGHTS

# CANOPY LIGHTS

# SOFFIT LIGHTS

# WALL MOUNTED LIGHTS

SYMBOL	QTY	LABEL
	4	A3

## ARE-EDG-3M-DA-06-E-UL-BZ-700

SYMBOL	QTY	LABEL
	1	A4
	4	A4-2

## ARE-EDG-4M-DA-06-E-UL-BZ-700

SYMBOL	QTY	LABEL
	32	C

## CAN-304-SL-RS-06-E-UL-WH-700

SYMBOL	QTY	LABEL
	9	S

## SFT-227-3M-RM-03-D-UL-BZ-525

SYMBOL	QTY	LABEL
	12	W

## SEC-EDG-3M-WM-06-D-UL-BZ-525

### ARE-EDG-3M-DA

Cree Edge™ Area Luminaire – Type III Medium – Direct Arm Mount

**Product Description**  
Slim, low profile design minimizes wind load requirements. Luminaire sides are rugged cast aluminum with integral, weatherlight LED driver compartments and high performance aluminum heat sinks. Convenient, interlocking mounting method. Mounting housing is rugged die cast aluminum and mounts to 3-4" (76-102mm) square or round pole. Luminaire is secured by two (2) 5/16"-18 UNC bolts spaced on 2" (51mm) centers.

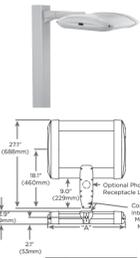
#### Performance Summary

- Utilizes BetaLED® Technology
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- CR: Minimum 70 CRI
- CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)
- Limited Warranty: 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish
- EPA and Weight: Reference EPA and Weight spec sheet

#### Accessories

Field Installed Accessories

XA-BRDSPK  
Bird Spikes



#### Ordering Information

Example: ARE-EDG-3M-DA-04-E-UL-SV-350-OPTIONS

Product	Optic	Mounting	LED Count (x10)	LED Series	Voltage	Color Options	Drive Current	Options
ARE-EDG-3M	3M	DA	06	E	UL	SV	350	40K 4000K Color Temperature
	Type III Medium	Direct Arm	06	UL	UL	SV	350	Color temperature per Luminaire
			06	UL	UL	SV	350	DM 0-NV Dimming
			06	UL	UL	SV	350	Control by others
			06	UL	UL	SV	350	Refer to dimming spec sheet for details
			06	UL	UL	SV	350	Can't exceed specified drive current
			06	UL	UL	SV	350	F Fuse
			06	UL	UL	SV	350	When code dictates fusing, use time delay fuse
			06	UL	UL	SV	350	Not available with all HL options. Refer to HL spec sheet for availability with HL options
			06	UL	UL	SV	350	Multi-specify voltage other than ULH
			06	UL	UL	SV	350	HL Hi/Low (175/350/525 Dual Circuit Input)
			06	UL	UL	SV	350	Refer to HL spec sheet for details
			06	UL	UL	SV	350	HL Multi-Level
			06	UL	UL	SV	350	Refer to HL spec sheet for details

\* See www.cree.com/lighting/products/warranty for warranty terms  
\* Available on luminaires with 40-100 LEDs  
\* Available on luminaires with 40-50 LEDs

BetaLED TECHNOLOGY CREE  
www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

### ARE-EDG-4M-DA

Cree Edge™ Area Luminaire – Type IV Medium – Direct Arm Mount

**Product Description**  
Slim, low profile design minimizes wind load requirements. Luminaire sides are rugged cast aluminum with integral, weatherlight LED driver compartments and high performance aluminum heat sinks. Convenient, interlocking mounting method. Mounting housing is rugged die cast aluminum and mounts to 3-4" (76-102mm) square or round pole. Luminaire is secured by two (2) 5/16"-18 UNC bolts spaced on 2" (51mm) centers.

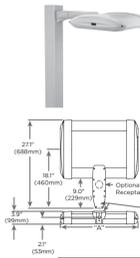
#### Performance Summary

- Utilizes BetaLED® Technology
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- CR: Minimum 70 CRI
- CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)
- Limited Warranty: 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish
- EPA and Weight: Reference EPA and Weight spec sheet

#### Accessories

Field Installed Accessories

XA-BRDSPK  
Bird Spikes



#### Ordering Information

Example: ARE-EDG-4M-DA-04-E-UL-SV-350-OPTIONS

Product	Optic	Mounting	LED Count (x10)	LED Series	Voltage	Color Options	Drive Current	Options
ARE-EDG-4M	4M	DA	06	E	UL	SV	350	40K 4000K Color Temperature
	Type IV Medium	Direct Arm	06	UL	UL	SV	350	Color temperature per Luminaire
			06	UL	UL	SV	350	DM 0-NV Dimming
			06	UL	UL	SV	350	Control by others
			06	UL	UL	SV	350	Refer to dimming spec sheet for details
			06	UL	UL	SV	350	Can't exceed specified drive current
			06	UL	UL	SV	350	F Fuse
			06	UL	UL	SV	350	When code dictates fusing, use time delay fuse
			06	UL	UL	SV	350	Not available with all HL options. Refer to HL spec sheet for availability with HL options
			06	UL	UL	SV	350	Multi-specify voltage other than ULH
			06	UL	UL	SV	350	HL Hi/Low (175/350/525 Dual Circuit Input)
			06	UL	UL	SV	350	Refer to HL spec sheet for details
			06	UL	UL	SV	350	HL Multi-Level
			06	UL	UL	SV	350	Refer to HL spec sheet for details

\* See www.cree.com/lighting/products/warranty for warranty terms  
\* Available on luminaires with 40-100 LEDs  
\* Available on luminaires with 40-50 LEDs

BetaLED TECHNOLOGY CREE  
www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

### CAN-304-SL-RS

304 Series™ Canopy Luminaire – Sparkle Petroleum – Recessed Mount for Single Skin Canopies

**Product Description**  
Luminaire housing is constructed from rugged die cast aluminum components. LED driver is mounted in a sealed weatherlight center chamber that allows for access from below the fixture. Luminaire housing incorporates integral high performance heat sink. Specifically designed for LED canopy application. Luminaire mounts directly to the canopy deck and is secured in place with die-cast aluminum trim frame. Luminaire housing is provided with factory applied foam gasket and provides for a watertight seal between luminaire housing and canopy deck. Integral junction box allows ease of installation without need to open luminaire. Suitable for use in single skin canopies with 1/2" (12.7mm) wide panels. See 227 Series for canopies using 1/2" (12.7mm) deck sections. Designed for canopies of 19"-22 gauge (maximum 0.040" [1 mm] thickness).

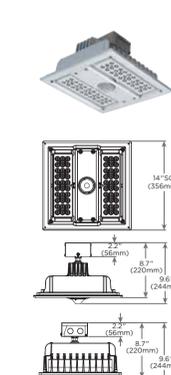
#### Performance Summary

- Utilizes BetaLED® Technology
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- CR: Minimum 70 CRI
- CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)
- Limited Warranty: 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish

#### Accessories

Field Installed Accessories

XA-BRDSPK  
Bird Spikes



#### Ordering Information

Example: CAN-304-SL-RS-04-E-UL-SV-350-OPTIONS

Product	Optic	Mounting	LED Count (x10)	LED Series	Voltage	Color Options	Drive Current	Options
CAN-304	SL	RS	06	E	UL	WH	700	40K 4000K Color Temperature
	Sparkle Petroleum	Recessed Single Skin	06	UL	UL	WH	700	Color temperature per Luminaire
			06	UL	UL	WH	700	DM 0-NV Dimming
			06	UL	UL	WH	700	Control by others
			06	UL	UL	WH	700	Refer to dimming spec sheet for availability and additional information
			06	UL	UL	WH	700	Can't exceed specified drive current
			06	UL	UL	WH	700	F Fuse
			06	UL	UL	WH	700	When code dictates fusing, use time delay fuse
			06	UL	UL	WH	700	Not available with all HL options. Refer to HL spec sheet for availability with HL options
			06	UL	UL	WH	700	Multi-specify voltage other than ULH
			06	UL	UL	WH	700	HL Hi/Low (175/350/525 Dual Circuit Input)
			06	UL	UL	WH	700	Refer to HL spec sheet for availability and additional information
			06	UL	UL	WH	700	HL Multi-Level
			06	UL	UL	WH	700	Refer to HL spec sheet for details

\* See www.cree.com/lighting/products/warranty for warranty terms  
\* Requires mounting spacing of 12" (305mm) x 24" (609mm) x 3" (76mm), (48" (1219mm) luminaire to luminaire, 24" (609mm) luminaire to wall, 6" (152mm) above luminaire.

BetaLED TECHNOLOGY CREE  
www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

### SFT-227-3M-RM-03

BetaLED® Recessed Soffit Luminaire – IC Rated

Rev. Date: 2/13/12

**Product Description**  
BetaLED® recessed soffit luminaire is designed for use in drop ceilings. The luminaire is constructed from rugged die cast aluminum housing with a clear polycarbonate lens. The luminaire is designed for use in single skin canopies with 1/2" (12.7mm) wide panels. See 227 Series for canopies using 1/2" (12.7mm) deck sections. Designed for canopies of 19"-22 gauge (maximum 0.040" [1 mm] thickness).

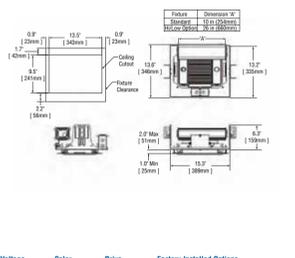
#### Performance Summary

- Utilizes BetaLED® Technology
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- CR: Minimum 70 CRI
- CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)
- Limited Warranty: 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish

#### Accessories

Field Installed Accessories

XA-BRDSPK  
Bird Spikes



#### Ordering Information

Example: SFT-227-3M-RM-03-D-UL-BZ-525

Product	Family	Optic	Mounting	# of LEDs (x 10)	LED Series	Voltage	Color Options	Drive Current	Factory-Installed Options																																																																																																																								
SFT	227	3M	RM	03	D	UL	WH	525	40K 4000K Color Temperature																																																																																																																								
				03	D	UL	WH	525	Color temperature per Luminaire <tr> <td></td> <td></td> <td></td> <td></td> <td>03</td> <td>D</td> <td>UL</td> <td>WH</td> <td>525</td> <td>DM 0-NV Dimming <tr> <td></td> <td></td> <td></td> <td></td> <td>03</td> <td>D</td> <td>UL</td> <td>WH</td> <td>525</td> <td>Control by others <tr> <td></td> <td></td> <td></td> <td></td> <td>03</td> <td>D</td> <td>UL</td> <td>WH</td> <td>525</td> <td>Refer to dimming spec sheet for availability and additional information <tr> <td></td> <td></td> <td></td> <td></td> <td>03</td> <td>D</td> <td>UL</td> <td>WH</td> <td>525</td> <td>Can't exceed specified drive current <tr> <td></td> <td></td> <td></td> <td></td> <td>03</td> <td>D</td> <td>UL</td> <td>WH</td> <td>525</td> <td>F Fuse <tr> <td></td> <td></td> <td></td> <td></td> <td>03</td> <td>D</td> <td>UL</td> <td>WH</td> <td>525</td> <td>When code dictates fusing, use time delay fuse <tr> <td></td> <td></td> <td></td> <td></td> <td>03</td> <td>D</td> <td>UL</td> <td>WH</td> <td>525</td> <td>Not available with all HL options. 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\* See www.cree.com/lighting/products/warranty for warranty terms  
\* Requires mounting spacing of 12" (305mm) x 24" (609mm) x 3" (76mm), (48" (1219mm) luminaire to luminaire, 24" (609mm) luminaire to wall, 6" (152mm) above luminaire.

BetaLED TECHNOLOGY CREE  
www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

### SEC-EDG-3M-WM

THE EDGE® LED Wall Pack

Rev. Date: 2/21/12

**Product Description**  
Slim, low profile design minimizes wind load requirements. Luminaire sides are rugged cast aluminum with integral, weatherlight LED driver compartments and high performance aluminum heat sinks. Convenient, interlocking mounting method. Mounting housing is rugged die cast aluminum and mounts to 3-4" (76-102mm) square or round pole. Luminaire is secured by two (2) 5/16"-18 UNC bolts spaced on 2" (51mm) centers.

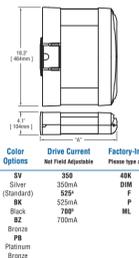
#### Performance Summary

- Utilizes BetaLED® Technology
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- CR: Minimum 70 CRI
- CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)
- Limited Warranty: 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish

#### Accessories

Field Installed Accessories

XA-BRDSPK  
Bird Spikes



#### Ordering Information

Example: SEC-EDG-3M-WM-06-D-UL-BZ-525

Product	Family	Optic	Mounting	# of LEDs (x 10)	LED Series	Voltage	Color Options	Drive Current	Factory-Installed Options																																																																																																																								
SEC	EDG	3M	WM	06	D	UL	SV	350	40K 4000K Color Temperature																																																																																																																								
				06	D	UL	SV	350	Color temperature per Luminaire <tr> <td></td> <td></td> <td></td> <td></td> <td>06</td> <td>D</td> <td>UL</td> <td>SV</td> <td>350</td> <td>DM 0-NV Dimming <tr> <td></td> <td></td> <td></td> <td></td> <td>06</td> <td>D</td> <td>UL</td> <td>SV</td> <td>350</td> <td>Control by others <tr> <td></td> <td></td> <td></td> <td></td> <td>06</td> <td>D</td> <td>UL</td> <td>SV</td> <td>350</td> <td>Refer to dimming spec sheet for availability and additional information <tr> <td></td> <td></td> <td></td> <td></td> <td>06</td> <td>D</td> <td>UL</td> <td>SV</td> <td>350</td> <td>Can't exceed specified drive current <tr> <td></td> <td></td> <td></td> <td></td> <td>06</td> <td>D</td> <td>UL</td> <td>SV</td> <td>350</td> <td>F Fuse <tr> <td></td> <td></td> <td></td> <td></td> <td>06</td> <td>D</td> <td>UL</td> <td>SV</td> <td>350</td> <td>When code dictates fusing, use time delay fuse <tr> <td></td> <td></td> <td></td> <td></td> <td>06</td> <td>D</td> <td>UL</td> <td>SV</td> <td>350</td> <td>Not available with all HL options. 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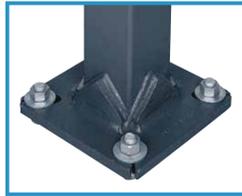
\* See www.cree.com/lighting/products/warranty for warranty terms  
\* Requires mounting spacing of 12" (305mm) x 24" (609mm) x 3" (76mm), (48" (1219mm) luminaire to luminaire, 24" (609mm) luminaire to wall, 6" (152mm) above luminaire.

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### ARE-EDG-3M-DA

Cree Edge™ Area Luminaire – Type III Medium – Direct Arm Mount

**Product Specifications**  
**CONSTRUCTION & MATERIALS**  
• Slim, low profile, minimizing wind load requirements  
• Luminaire sides are rugged die cast aluminum with integral, weatherlight LED driver compartments and high performance heat sinks  
• Convenient interlocking mounting method. Mounting housing is rugged die cast aluminum mounting to 3-4" (76-102mm) square or round pole, secured by two (2) 5/16"-18 UNC bolts spaced on



**CROWN-WELD®  
SQUARE STRAIGHT STEEL POLES**  
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**RECOMMENDED CREE® OUTDOOR LUMINAIRE  
LUMEN MAINTENANCE FACTORS (LMF)**  
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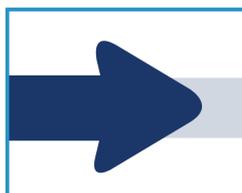
**CREE TRUEWHITE® TECHNOLOGY & CRI  
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**CANADA**

**BRITISH COLUMBIA**

**rLa** TOM SCUPHAM  
tom.scupham@redleonard.com  
t. 604-939-1921

**ONTARIO**

**rLa** JIM RODD  
jim.rodd@redleonard.com  
t. 905-877-2088

**QUEBEC**

**rLa** BRIAN MILLETT  
brian.millett@redleonard.com  
t. 819-486-1003

**NORTHEASTERN REGION**

**CONNECTICUT**

**rLa** MARK RITTER  
mritterRLA@aol.com  
t. 860-489-4996

**NEW YORK**

**rLa** BILL BEACH  
bill.beach@redleonard.com  
t. 585-202-0345

**rLa** PAUL KULICAMP  
paul.kulicamp@redleonard.com  
t. 646-660-2750

**rLa** PAUL WRIGHT  
paul.wright@redleonard.com  
t. 518-326-0786

**MIDWESTERN REGION**

**ILLINOIS**

**rLa** BOB ROECKER  
bob.roecker@redleonard.com  
t. 815-226-8820

**INDIANA**

**rLa** STEVE VEACH  
steve.veach@redleonard.com  
t. 765-288-8900

**KENTUCKY**

**rLa** JERRY BAYENS  
jerry.bayens@redleonard.com  
t. 502-458-5999

**MISSOURI**

**rLa** ERIC RESINGER  
eric.resinger@redleonard.com  
t. 314-750-4243

**OHIO**

**rLa** JAYME LEONARD  
jayme.leonard@redleonard.com  
t. 513-574-9500

**rLa** ROB RINGS  
rob.rings@redleonard.com  
t. 614-876-1770

**rLa** MARK TRAU  
marktrauRLA@gmail.com  
t. 440-498-9155



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Red Leonard's superior customer service and full applications and project support capabilities ensure that our customer's needs are met every step. We are confident that you will find our complete line of LED lighting solutions to be an excellent choice for your spaces. Call us today to find out how we can help you make your next project a success!



STORM WATER DETENTION CALCULATIONS  
 (Rational Method) 02-28 (Section 6 E. Central Iowa)  
 Project: Casey's General Stores, West Branch, Iowa

<b>Existing</b>			
<b>DRAINAGE AREA</b>	3.220 ACRES		
SURFACED AREA (S)	0.000 ACRES	*Assume all grass	
TURF AREA (A)	3.220 ACRES		
<i>Formulas</i>			
$C_S = 0.95$		5Year Pre Developed Flow = 1.86 Acres x 4.16in/hr x .35	
$C_T = 0.35$			<b>4.688 cfs</b>
$CA = C_S (S) + C_T (A) = 1.127$			
$Q = CIA$			

<b>Proposed</b>			
<b>DRAINAGE AREA</b>	3.220 ACRES		
SURFACED AREA (S)	1.140 ACRES		
TURF AREA (A)	2.080 ACRES		
<i>Formulas</i>			
$C_S = 0.98$		100 Year Post Developed Flow = CA x 7.72in/hr	
$C_T = 0.55$			<b>17.456 cfs</b>
$CA = C_S (S) + C_T (A) = 2.261$			
$Q = CIA$			

<b>Undetained</b>			
<b>DRAINAGE AREA</b>	0.000 ACRES		
SURFACED AREA (S)	0.000 ACRES		
TURF AREA (A)	0.000 ACRES		
<i>Formulas</i>			
$C_S = 0.98$		100Year Undetained Flow = CA x 7.72in/hr	
$C_T = 0.55$			<b>0.000 cfs</b>
$CA = C_S (S) + C_T (A) = 0.000$			
$Q = CIA$			

$Q_R = Q_S - Q_{undetained}$	<b>4.69 cfs</b>
------------------------------	-----------------

Time (MIN)	Intensity (IN/HR)	CA	Q <sub>100</sub>	Q <sub>R</sub>	Q <sub>S</sub>	Storage Ft. <sup>3</sup>
15	7.72	2.261	17.456	4.688	12.768	11491
20	6.68	2.261	15.105	4.688	10.416	12500
30	5.28	2.261	11.939	4.688	7.251	<b>13051</b>
35	4.70	2.261	10.628	4.688	5.939	12473
40	4.28	2.261	9.678	4.688	4.990	11975
45	3.90	2.261	8.819	4.688	4.130	11152
50	3.61	2.261	8.163	4.688	3.475	10424
55	3.37	2.261	7.620	4.688	2.932	9675
60	3.35	2.261	7.575	4.688	2.887	10392
65	2.96	2.261	6.693	4.688	2.005	7819
70	2.81	2.261	6.354	4.688	1.666	6996
75	2.66	2.261	6.015	4.688	1.326	5969
80	2.54	2.261	5.743	4.688	1.055	5065
85	2.43	2.261	5.495	4.688	0.806	4113
90	2.34	2.261	5.291	4.688	0.603	3256
95	2.26	2.261	5.110	4.688	0.422	2405
100	2.21	2.261	4.997	4.688	0.309	1854
<b>(Proposed Development) ==&gt; Storage volume required (cu. ft.)</b>						<b>13051</b>

ORIFICE SIZING	Q <sub>R</sub> = 4.688 c.f.s.
Q <sub>R</sub> = C(2gh) <sup>1/2</sup> A	C = 0.64
	g = 32.20 ft <sup>2</sup> /s
	h = 1.67 ft ( <i>depth reflects required storage volume</i> )
	A = 0.706 ft <sup>2</sup>
	= 101.72 in <sup>2</sup>
	= <b>11.38</b> inch diameter orifice

WATER QUALITY	
WQv = P x Rv	P = 1.25 inches
	Rv = 0.009 * I = 0.54
	I = 54 %
	WQv = 0.67 watershed inches = <b>7831 cu.ft.</b>

### Formula

$$Q = CIA$$

Q = computed runoff rate in cubic feet per second (cfs)

C = runoff coefficient for specified use

I = average rainfall intensity in inches per hour for a 100-year storm frequency and a time of concentration of 15 minutes

A = drainage area in acres

### Pipe Conveyance Capacity

#### Formula

$$Q = A (1.486/n) R^{2/3} S^{1/2}$$

Q = rate of flow in cubic feet per second

A = cross sectional area of flow in square feet

n = Manning's coefficient of roughness

R = hydraulic radius in feet

S = slope of pipe in feet per foot

## Computed Runoff Rate

### Area into Intake

Into North Intake	Surface Area	
$C_5 =$	0.950	
$C_{100} =$	0.980	
$I_5 =$	4.160	in./hr.
$I_{100} =$	7.720	in./hr.
$A =$	0.320	acres
$Q_5 =$	<b>1.3</b>	<b>cfs</b>
$Q_{100} =$	<b>2.4</b>	<b>cfs</b>

Into South Intake	Surface Area	
$C_5 =$	0.950	
$C_{100} =$	0.980	
$I_5 =$	4.160	in./hr.
$I_{100} =$	7.720	in./hr.
$A =$	0.250	acres
$Q_5 =$	<b>1.0</b>	<b>cfs</b>
$Q_{100} =$	<b>1.9</b>	<b>cfs</b>

### Building Area

Parcel	Surface Area	
$C_5 =$	0.350	
$C_{100} =$	0.550	
$I_5 =$	4.160	in./hr.
$I_{100} =$	7.720	in./hr.
$A =$	0.100	acres
$Q_5 =$	<b>0.1</b>	<b>cfs</b>
$Q_{100} =$	<b>0.4</b>	<b>cfs</b>

### Canopy Area

Parcel	Surface Area	
$C_5 =$	0.950	
$C_{100} =$	0.980	
$I_5 =$	4.160	in./hr.
$I_{100} =$	7.720	in./hr.
$A =$	0.170	acres
$Q_5 =$	<b>0.7</b>	<b>cfs</b>
$Q_{100} =$	<b>1.3</b>	<b>cfs</b>

### Pipe Conveyance Capacity

<b>Solution</b>	1
<b>Pipe Diameter =</b>	<b>6 inches</b>
<b>Pipe Material =</b>	<b>HDPE</b>
A =	0.196
n =	0.009
R =	0.125
S =	0.010
<b>Q =</b>	<b>0.8 cfs</b>

<b>Solution</b>	2
<b>Pipe Diameter =</b>	<b>8 inches</b>
<b>Pipe Material =</b>	<b>HDPE</b>
A =	0.349
n =	0.009
R =	0.167
S =	0.010
<b>Q =</b>	<b>1.7 cfs</b>

<b>Solution</b>	3
<b>Pipe Diameter =</b>	<b>12 inches</b>
<b>Pipe Material =</b>	<b>RCP</b>
A =	0.785
n =	0.013
R =	0.250
S =	0.010
<b>Q =</b>	<b>3.6 cfs</b>

<b>Solution</b>	4
<b>Pipe Diameter =</b>	<b>15 inches</b>
<b>Pipe Material =</b>	<b>RCP</b>
A =	1.227
n =	0.013
R =	0.313
S =	0.001
<b>Q =</b>	<b>2.0 cfs</b>

**Project Information:**

Project Name: Casey's General Stores  
 Location: West Branch, Iowa  
 Date: 28-Feb-14  
 Engineer: Elara Jondle  
 StormTech RPM:

**MC-3500 Site Calculator**

**System Requirements**

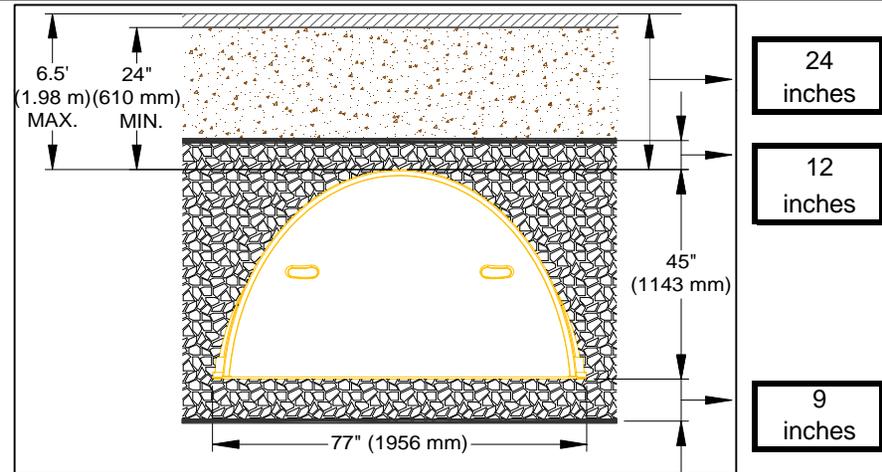
Units	<b>Imperial</b>	
Required Storage Volume	<b>13051</b>	CF
Stone Porosity (Industry Standard = 40%)	<b>40</b>	%
Stone Above Chambers (12 inch min.)	<b>12</b>	inches
Stone Foundation Depth (9 inch min.)	<b>9</b>	inches
Average Cover over Chambers (24 inch min.)	<b>24</b>	inches
Bed size controlled by WIDTH or LENGTH?	<b>LENGTH</b>	
Limiting WIDTH or LENGTH dimension	<b>40</b>	feet
Storage Volume per Chamber	<b>178.9</b>	CF
Storage Volume per End Cap	<b>46.9</b>	CF

**System Sizing**

Number of Chambers Required	67	each
Number of End Caps Required	34	each
Bed Size (including perimeter stone)	4,064	square feet
Stone Required (including perimeter stone)	748	tons
Volume of Excavation	978	cubic yards
Non-woven Filter Fabric Required (20% Safety Factor)	1313	square yards
Length of Isolator Row	33.4	feet
Non-woven Isolator Row Fabric (20% Safety Factor)	58	square yards
Woven Isolator Row Fabric (20% Safety Factor)	74	square yards
Installed Storage Volume	<b>13,581</b>	cubic feet

**Controlled by Length**

Maximum Length =	40	feet
16 rows of 4 chambers		
1 row of 3 chambers		
Maximum Length =	33.4	feet
Maximum Width =	123.1	feet



\*This represents the estimated material and site work costs (US dollars) for the project. Materials excluded from this estimate are conveyance pipe, pavement design, etc. It is always advisable to seek detailed construction costs from local installers. Please contact STORMTECH at 888-892-2694 for additional cost information.