



Form 810025 (03-16)

Print Form

**APPLICATION AND AGREEMENT FOR USE OF
HIGHWAY RIGHT-OF-WAY FOR UTILITIES ACCOMMODATION**

FOR DEPARTMENT USE ONLY

Permit Number 1040-2019-009	Highway Number 14	County Marshall
DOT Project Number 1560	Expiration/Completion Date	

APPLICANT (INDIVIDUAL OR COMPANY)

First Name Tim	Middle Initial	Last Name Flickinger	Phone Number 515-725-4699	Ext.
Company Name Iowa Communications Network (ICN)	City/Town Des Moines			Phone Number 515-725-4692
Street Address 400 E 14th Street	State IA			ZIP Code 50319
e-Mail Address timothy.flickinger@iowa.gov				

INSTALLATION TO BE ACCOMMODATED

Approval is hereby requested to enter within the state highway right-of-way for the accommodation of a utility installation as detailed on the attachments and further described as follows:

The installation shall consist of:
Marshalltown PD & Fire Phase 2
ICN OSP Log #64190305

(1) 2" HDPE bored conduit and fiber optic cable along the east side of IA-14. Conduit and fiber optic cable will be installed from the existing handhole at the IA-14 & College Drive intersection to a handhole at Sta. 611+34 on the east side of IA-14 at the IA-14 & E Olive Street intersection. See attached plan sheets.

and shall be located as shown on the detailed plan attached hereto. (See current Iowa Department of Transportation Utility Accommodation Policy for submittal of detailed plan requirements. See Section 115.8 (3).)

WORK SITE LOCATION

The proposed work as described above is located in Section 1, 2, 14, Twp. T83N, Range R18W on Highway No. IA-14 generally located 5.65 (miles) East (direction) from IA-330 & US-30 interchange (city, county, line, or other landmark). Work proposed is more specifically located as being from 28.70 (Milepost #) and 514+92 (Highway Station) to 100.80 (Milepost #) and 611+58 (Highway Station) on the East side of highway.

Disclosure Statement: The information furnished on this form will be used by the Department of Transportation to determine approval or denial of the application. Failure to provide all pertinent information will result in denial of the application. Information furnished is public information and copies may be provided to the public upon request.

A. General

The utility company, corporation, applicant, permit holder or licensee, (hereinafter referred to as the Permit applicant) agrees with the Iowa Department of Transportation (hereafter referred to as the Department) that the following stipulations and those special requirements as listed on this document shall govern under this permit after it is approved by the Department.

1. The installation shall meet the requirements of local municipal, county, state, and federal franchise rules and regulations, regulations and directives of the Iowa State Commerce Commission; the Iowa Department of Natural Resources, all rules and regulations of the Department and any other laws or regulations applicable.
2. The Permit Holder shall be fully responsible for any future adjustments of the facilities within the established highway right-of-way caused by highway construction or maintenance operations.
3. As per Section 115.8(8) of the Utility Accommodation Policy, As-Built plans are due within 90 days after completion of construction, the utility owner shall submit to the district representative an as-built plan.
4. The work described in this permit shall be completed as proposed in compliance with the stipulations and special requirements within one year from the date Department approval is received for said request. Failure on the part of the Permit Holder to abide by the stipulations or in constructing the work described as stipulated and within the time frame stated shall render this agreement and request null and void. The Permit Holder also agrees to save the State of Iowa and the Department harmless of any damages or losses that may be sustained by any person, or persons, on account of the conditions and requirements of this agreement.
5. Non-compliance with any of the terms of the Department's policy, permit, or agreement, may be considered cause for shut-down of construction operations, revocation of the permit, or withholding of relocation reimbursement and/or withholding of future application approvals until compliance is confirmed. The cost of any work deemed necessary to be performed by the State in removal of non-complying construction will be assessed against the Permit Holder.

B. Construction and Maintenance

1. The location, construction and maintenance of the utility installation covered by this application shall be in accordance with the current Department's Utility Accommodation Policy.
2. Before beginning any work in the highway right-of-way, it is the responsibility of the Permit Holder to obtain an easement from the drainage district if necessary. The Department assumes no responsibility for advising the Permit Holder of each location of a drainage district crossing. It is the Permit Holder's responsibility to locate these crossings and obtain any necessary easements or permission from the drainage district. See Code of Iowa, Chapter 468 for additional information.
3. A copy of the approved permit shall be available on the job site at all times for examination by Department personnel.
4. Operations in the construction and maintenance of this utility installation shall be carried on in such a manner as to cause minimum interference to or distraction of traffic on said highway.
5. Traffic protection shall minimally be in accordance with Part VI of the current Manual on Uniform Traffic Control Devices for Streets and Highways. The applicant shall be responsible for correctly using traffic control devices including signs, warning lights, and channelizing devices as needed while work is in progress or the clear zone is impacted. Flagging operations are the responsibility of the applicant. The Department's TC XXX Series Standards are the preferred traffic control specification plans.
6. The applicant shall seed and mulch all disturbed areas within the highway right-of-way and shall be responsible for the vegetative cover until it becomes well established. Any surfaced areas such as driveways or shoulders and sodded waterways and plantings which are disturbed shall be restored to their original condition. Any damage to any other underground facilities during installation shall be repaired at the permit holder's expense.
7. All personnel in the highway right-of-way shall wear ANSI 107 Class 2 apparel at all times when exposed to traffic or construction equipment.
8. As per Policy Section 115.4(9) parking or storage in the clear zone is prohibited. When not in actual use, vehicles, equipment and materials shall not be parked or stored within the clear zone or median.
9. Unless specifically noted in Special Requirements section, all work performed within the right-of-way shall be restricted to 30 minutes after sunrise to 30 minutes before sunset.
10. Pedestals shall be placed within 12 inches of the right-of-way line.
11. All above and below ground appurtenances (pedestals, hydrants, drains, accesses, etc.) shall be marked with high visibility posts and signs. The minimum height requirement for the signs shall be 5 foot. Urban Roadway Sections may be exempted with department approval.

C. Liability

1. To the extent allowable by law, the Permit Holder agrees to indemnify, defend, and hold the Department harmless from any action or liability arising out of the design, construction, maintenance, placement of traffic control devices, inspection, or use of the Permit Holder's facilities. This agreement to indemnify, defend, and hold harmless applies to all aspects of the Department's application review and approval process, plan and construction reviews, and funding participation.
2. The Permit Holder shall indemnify and save harmless the State of Iowa, its agencies and employees, from any and all causes of action, suits at law or in equity, for losses, damages, claims or demands, and from any and all liability and expense of whatsoever nature, arising out of or in connection with the Permit Holder's use or occupancy of the public highway.
3. The State of Iowa and the Department assume no responsibility for damages to the Permit Holder's property occasioned by any construction or maintenance operations on said highway if the facilities are not located in accordance with this permit.
4. The State of Iowa, its agencies or employees, will be liable for expense incurred by the Permit Holder in its use and occupancy of the highway right-of-way only when negligence of the State, its agencies or employees, is the sole proximate cause of such expense. Whether in contract, tort or otherwise, the liability of the State, its agencies and employees, is limited to the reasonable, direct expense to repair damaged utilities, and in no event will such liability extend to loss of profits or business, indirect, special, consequential or incidental damages.

D. Notification

1. The Permit Holder is responsible for contacting Iowa One-Call (1-800-292-8989) and request the location of all underground utilities forty-eight (48) hours before excavation. Before beginning work in the highway right-of-way, the Permit Holder shall also contact any other known utility located in the area of the proposed work.
2. The Permit Holder agrees to give the Department forty-eight (48) hour notice of its intention to start construction or to perform routine maintenance on the highway right-of-way. Said notice shall be made to the local DOT contact person whose name is shown on Page 3.

3. 511 Notification-In accordance with Iowa Code section 321.348, cities and utilities may not obstruct or close primary highways or primary highway extensions (State highways within city limits) without prior consent of the Iowa DOT, except in emergency situations. Before setting up a lane closure or a vertical/horizontal restriction of any kind on a primary highway, call your local Iowa DOT Maintenance garage and call the Traffic Management Center per attached documents. Except in emergency situations, a 10 day advance notice is required.

E. Buy AmericaBuy America applies to relocations of utility facilities that must move due to highway projects under certain specific conditions that include reimbursable locations and relocations due to interstate projects. Please contact the Department's District Engineering Operation Technician (EOT) for more information on Buy America requirements or visit the following link:

We can only accept this document on legal size (8 1/2" x 14") paper due to recording requirements by Iowa Code.

FOR DEPARTMENT USE ONLY

Special Requirements - in addition to the stipulations above, the following special requirements shall apply to this permit:

Applicant Signature and Agreement

The undersigned have read the stipulations of this permit agreement as stated, as well as attachments which may be included, and by signing this application agree to abide by all stipulations and to complete the work as proposed in compliance with the stipulations and attachments within one year from the date Department approval is granted for said request. Failure on the part of the applicant to abide by the stipulations or to construct the work desired as stipulated and within the time frame stated shall render this agreement and request null and void. The undersigned also agrees to save harmless the State of Iowa and the Iowa Department of Transportation from any damage or losses that may be sustained by any person or persons on account of the conditions and requirements of this agreement.

Name of Agent (Print or Type) Tim Flickinger	Agent/Cover (Signature) 	Title Telecommunications Engineer
Name of Owner (Print or Type) Iowa Communications Network		Date 4/10/19
e-Mail Address timothy.flickinger@iowadot.us		

CITY ACTION (IF PROPOSED WORK IS WITHIN AN INCORPORATED CITY, CITY ACTION IS REQUIRED)

"The undersigned city joins in the grants embodied in the above permit executed by the Iowa Department of Transportation on condition that all of the covenants and undertakings therein running to the Iowa Department of Transportation shall inure to the benefit of the undersigned city and recommends action on said permit application as noted below by the delegated city official".

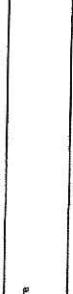
☒ Recommend Approval ☐ Do Not Recommend Approval ☐ None Required

Handwritten Signature 	Title Civil Engineer	Date 4/12/2019
Type or Print Name Brad Bateman	Authorized Official for the City of Marshalltown	
e-Mail Address bbateman@marshalltown-ia.gov		

COUNTY ACTION (IF PROPOSED WORK CROSSES COUNTY RIGHT-OF-WAY, COUNTY ACTION IS REQUIRED)

"The undersigned county joins in the grants embodied in the above permit executed by the Iowa Department of Transportation on condition that all of the covenants and undertakings therein running to the Iowa Department of Transportation shall inure to the benefit of the undersigned county and recommends action on said permit application as noted below by the delegated county official".

☐ Recommend Approval ☐ Do Not Recommend Approval ☐ None Required

Handwritten Signature 	Title	Date
Type or Print Name Deanna Smyth-Peters	Authorized Official for the County of	
e-Mail Address		

FEDERAL HIGHWAY ADMINISTRATION ACTION (WHEN REQUIRED)

☐ Recommend Approval ☐ Do Not Recommend Approval ☐ None Required

Authorized FHWA Representative Signature	Date
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DEPARTMENT OF TRANSPORTATION FINAL ACTION

☒ Application Approved ☐ Application Denied

Authorized Highway District Representative Deanna Smyth-Peters	Signature 	Permit Number: 640-20A-009
e-Mail Address Deanna.Smyth-Peters@iowadot.us	Date 4/15/19	

Notice of intention to start construction or maintenance activities on the highway right-of-way shall be made to:

Local DOT Contact Person (Type or Print Name) Mark Stephens - Marshalltown Maintenance Supervisor	Phone Number (641) 753-7783		
Street Address 1308 Iowa Avenue West	City/Town Marshalltown	State IA	ZIP Code 50158
e-Mail Address Mark.Stephens@iowadot.us			



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Site Plan & Attachments Checklist for IDOT Utilities Accommodation Permit

- | | |
|-------------------------------------|---|
| ☒ | Plans showing IADOT Highway Centerline, Highway Number, DOT Stationing and Milepost are required. |
| ☒ | Visible orientation (North Arrow) and identifying landmarks are required. |
| ☒ | Clearly identify Right Of Way (ROW) line with horizontal distance from highway centerline shown, including all breakpoints and changes in the ROW distances. |
| ☒ | Provide Iowa One Call design request information. (Minimally, the list of utilities) |
| ☒ | List all of the existing utilities in the installation area. Describe how your installation will address existing utilities that are in conflict, and show all observable existing features, such as power poles, pedestals, markers, handholes, trees, etc. |
| ☒ | Show all Construction features/Bore Pits with the running line and horizontal distance from roadway edge or centerline. (showing Clear Zone compliance) http://www.iowadot.gov/traffic/pdfs/UtilityPolicy.pdf |
| ☒ | Show the start/stop stationing and depths or elevations for all bores, longitudinal and transverse. |
| ☒ | Show the start/stop stationing and depths or elevations for all plowing locations. |
| ☒ | Show casing start/stop locations, lengths, diameter, and material if casings are used. |
| ☒ | Show all facilities that are to be installed on the site plan.
This includes pedestals, wire, conduit, poles, guy anchors, junction boxes, handholes and manholes.
ALL MUST BE REFERENCED BY DOT Stationing and distance from centerline. |
| ☒ | Show where installation starts and stops, leaves ROW, stops at existing pedestal, pole, etc.
Use IADOT stationing and distance from centerline of the start and stops. |
| ☒ | Identify any physical focal points, posts, pedestals, shutoffs, overflow valves, hydrants, etc. |
| ☒ | Describe any other work to accomplish installation before, during and/or after installation, including: removal of brush/trees, removal of underbuild, construction of access, fence removal, fence replacement, etc. |
| ☒ | Identify unusual issues to be pointed out on the site plan.
CLARITY IS THE KEY, we can't assume you will do it if it is not shown in the plan. |
| | <u>Attachments</u> |
| ☒ | Proper Traffic Control Standards (IADOT TCxxx Series Standard plans preferred)
Available at - http://www.iowadot.gov/design/stdplne_tc.htm |
| ☐ | Required Height / Depth Typical (Supplied by the Department) |
| ☐ | Title Repair Guide (Rural Locations) (Supplied by the Department) |
| ☐ | Special Seeding Requirements and Erosion Control (Supplied by the Department) |
| ☐ | 511 Lane Restriction Requirements (If lane restriction is anticipated) (Supplied by the Department) |
| ☐ | If paper applications are submitted, at least 2 sets of site plans (11 x 17 preferred) and 1 original of the permit application with all original signatures (Scanned and emailed copies are accepted) |

ALL ITEMS MUST BE LEGIBLE FOR REVIEW AND FOR RESCANING PURPOSES



April 15, 2019

Iowa Communications Network
Attn: Tim Flickinger
400 E 14th St
Des Moines, IA 50319

Dear Mr. Flickinger,

Enclosed is a copy of an approved permit 64U-2019-009, Application And Agreement For Use Of Highway Right Of Way For Utilities Accommodation on Hwy 14 at Sta. 514+92 to 611+58.

Please note any changes or stipulations we have made, if any.

Please notify the maintenance supervisor, 48 hours in advance.

If you have any questions, please feel free to call.

Sincerely,



Deanna Smyth-Peters
Access/Utilities Specialist

Attachment
DJSP/djsp

CC: Access & Utility Policy Specialist
Mark Stephens-Marshalltown Maintenance Supervisor
Marshall County Engineer
File

Special Requirements

All Material or equipment shall be kept 10 feet off of the Right of Way during work hours.

Right of Way shall be restored at the end of each working day.

No open holes or dirt piles shall be left on Right of Way during non -working hours.

No parking on the shoulders.

No digging into the side slopes of any road or highway shall be allowed.

Proper traffic control must be used at all times.

761—115.16 (306A) Longitudinal installations on freeways.**115.16(1) Type of installation permitted.**

a. The department may permit the installation of an underground utility facility if, in addition to complying with other provisions of this chapter, the facility specifically complies with this rule.

b. Except as provided in this rule, no aboveground installations other than those needed to serve highway facilities are allowed.

115.16(2) Prohibitions on longitudinal occupancy.

a. A utility facility shall not be used for transmitting gases or liquids or for transmitting products that are flammable, corrosive, expansive, highly energized or unstable.

b. A utility facility shall not present a hazard to life, health or property if it fails to function properly, is severed or is otherwise damaged.

c. No direct service connection to adjacent properties is allowed.

d. No utility facility is allowed in or on a structure carrying a freeway roadway or ramp, except for freeway border bridges, as provided in subrule 115.12(5).

115.16(3) Minimal maintenance. Once installed, the utility facility shall require minimal maintenance.

115.16(4) Location and depth. The utility facility shall be located on uniform alignment, preferably within eight feet of the freeway right-of-way line, and at a location approved by the department.

a. See subrule 115.13(1) for minimum depth requirements.

b. Except for multiduct systems, borings and isolated locations as determined by the department, cable shall be installed by the plowing method.

c. Utility accesses and splice boxes may be placed below the existing ground line. The location and number of installations are subject to department approval.

115.16(5) Identification signs, pedestals and repeater stations.

a. The utility owner shall place identification signs within 12 inches of the right-of-way fence, at the line of sight, along the entire occupancy route. These signs shall identify the owner/operator's name, telephone number to contact in case of an emergency, and the type of buried utility.

(1) The signs shall be composed of an ultraviolet-resistant material.

(2) Each sign shall be no larger than 200 square inches.

(3) The interval between signs shall not exceed one-quarter mile in rural areas and 500 feet in urban areas, or as designated by the department.

(4) Additional signs shall be placed on each side of a public highway, road or street intersecting or crossing the freeway at points where the freeway right-of-way line intersects the public highway, road or street right-of-way line.

(5) The utility owner is responsible for installing and maintaining these identification signs.

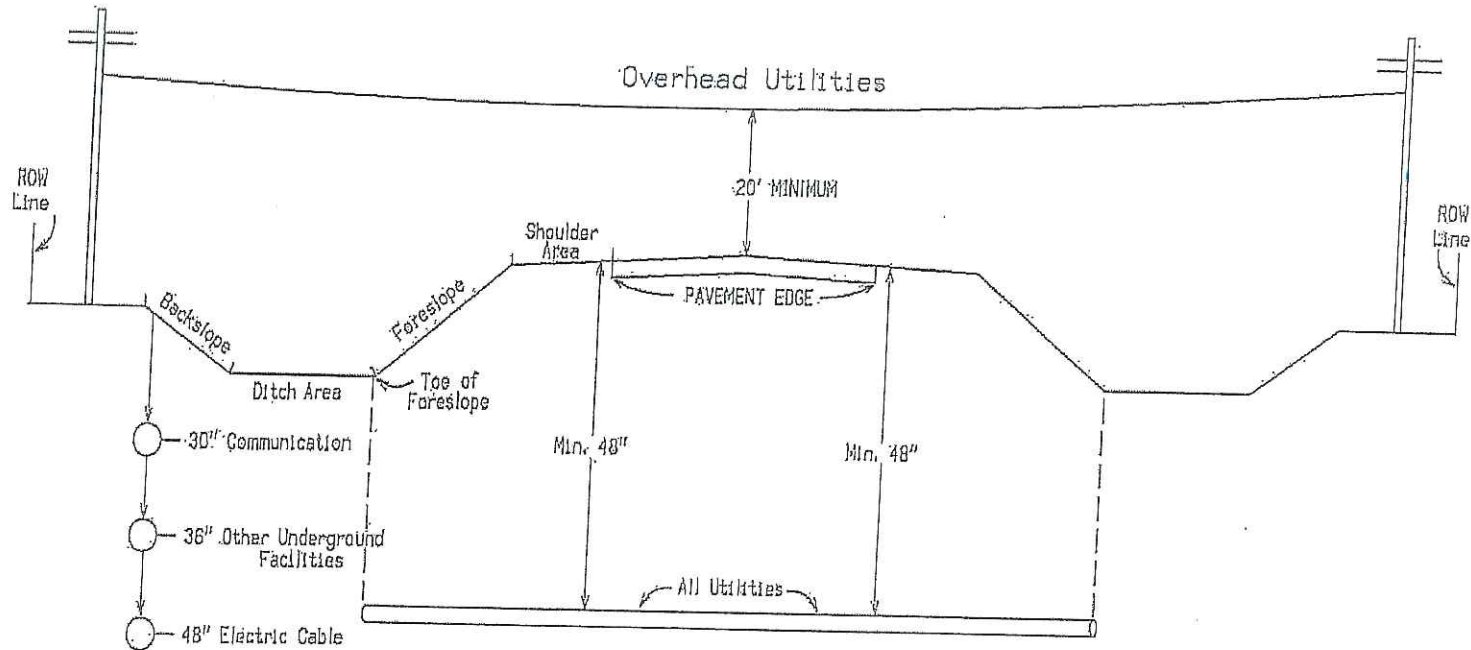
b. Aboveground pedestals are permissible. Pedestals should be placed one foot from the right-of-way fence. The number of installations is subject to department approval.

c. Repeater stations are not allowed in the right-of-way.

115.16(6) Metallic warning tape. Metallic warning tape shall be installed a minimum of 12 inches below the existing grade and above the utility installation to facilitate locating the installation in the future.

115.16(7) Engineering. The utility owner shall retain the services of a licensed, professional engineer.

Minimum Policy Requirements Rural Section Non-Freeway Highway



Notes:
Utilities shall be located between the toe of foreslope and the highway row line.
Utilities should be located as near to the highway row line as practical.
See Utility Policy, Section 115.13 for further details.

Acceptable Clear Zone Distances (feet) (Based on AASHTO Roadside Design Guide, 4th edition)

design speed	design ADT	FORESLOPES			BACKSLOPES		
		6:1 or flatter	Steeper than 6:1, up to and including 4:1	Steeper than 4:1	Steeper than 4:1* up to 6:1	4:1 or flatter, up to 6:1	6:1 or flatter
40 mph or less	ADT < 750	7	7	**	7	7	7
	750 ≤ ADT < 1500	10	12	**	10	10	10
	1500 ≤ ADT < 6000	12	14	**	12	12	12
	ADT ≥ 6000	14	16	**	14	14	14
45 – 50 mph	ADT < 750	10	12	**	8	8	10
	750 ≤ ADT < 1500	14	16	**	10	12	14
	1500 ≤ ADT < 6000	16	20	**	12	14	16
	ADT ≥ 6000	20	24	**	14	18	20
55 mph	ADT < 750	12	14	**	8	10	10
	750 ≤ ADT < 1500	16	20	**	10	14	16
	1500 ≤ ADT < 6000	20	24	**	14	16	20
	ADT ≥ 6000	22	26	**	16	20	22
60 mph	ADT < 750	16	20	**	10	12	14
	750 ≤ ADT < 1500	20	26	**	12	16	20
	1500 ≤ ADT < 6000	26	30	**	14	18	24
	ADT ≥ 6000	30	30	**	20	24	26
65 – 70 mph	ADT < 750	18	20	**	10	14	14
	750 ≤ ADT < 1500	24	28	**	12	18	20
	1500 ≤ ADT < 6000	28	30	**	16	22	26
	ADT ≥ 6000	30	30	**	22	26	28

* Backslopes as steep as 2.5:1 can be considered as part of the clear zone, as long as they are relatively smooth and do not contain any fixed objects. Refer to Section 8A-4 of the Design Manual for information regarding backslopes steeper than 2.5:1.

** Since a vehicle traveling on a slope steeper than 4:1 is likely to be diverted to the bottom of the slope, the width of any slope providing clear recovery areas at the base of steep slopes. Refer to Section 8A-2 of the Design Manual for information on

511 Information Required

Before setting up a lane closure or a vertical/horizontal restriction of any kind on a primary highway extension, call your local Iowa DOT maintenance garage to discuss timing and date of the closure/restriction. Once the maintenance garage concurs with the timing and date of the Traffic Management Center (TMC) at **515-237-3300**. The TMC will put the information in the 511 system, which generates an automatic message to Iowa DOT Motor Carrier Services (MCS) and the District office.

The following information is required to enter a maintenance/construction event into the Iowa DOT 511 system.

Requestor: _____ Contact number: _____

Route(s) affected: _____

Project description: _____

Project begin location (detailed description including cross streets and mile markers):

Project end location (detailed description including cross streets and mile markers):

County/Countries: _____

24 hour project contact: _____

Name _____ Phone _____

Describe the impact on traffic:

- ☐ Closed
- ☐ Closed intermittently
- ☐ Intermittent lane closure
- ☐ Alternating lane closures
- ☐ Reduced to one lane
- ☐ Reduced to two lanes
- ☐ Reduced to three lanes

- ☐ Right lane closed
- ☐ Left lane closed
- ☐ Center lane closed
- ☐ Right shoulder closed
- ☐ Left Shoulder closed
- ☐ Exit ramp closed
- ☐ Entrance ramp closed

- ☐ Two center lanes are closed
- ☐ Left exit ramp closed
- ☐ Shoulder closed
- ☐ Bridge closed
- ☐ Intersecting road closed
- ☐ Local road closures in area
- ☐ Left lane of exit ramp closed

- ☐ Road construction
- ☐ Work in the median
- ☐ Opposing traffic
- ☐ Single lane traffic alternating directions

Additional project information (pilot car, flagger, etc.):

Will there be temporary overhead signals? (15' standard height restriction)
☐ Yes ☐ No

If yes, please provide the location of the temporary overhead signals in the space provided.

Are there any other width or height restrictions:
☐ Yes ☐ No

If yes, please describe:

Additional public website comments:

Project beginning date and time:

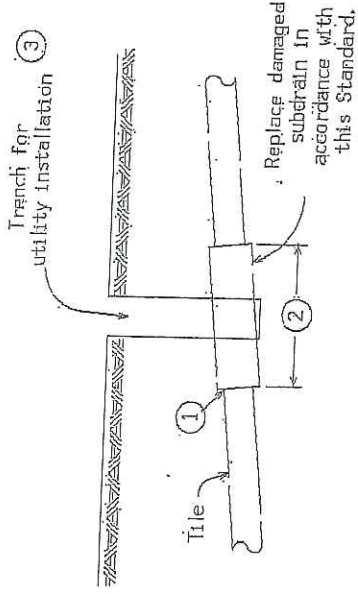
Project ending date and time:

Times of closure

☐ Continuous ☐ Weekdays (Monday – Friday) ☐ Nights

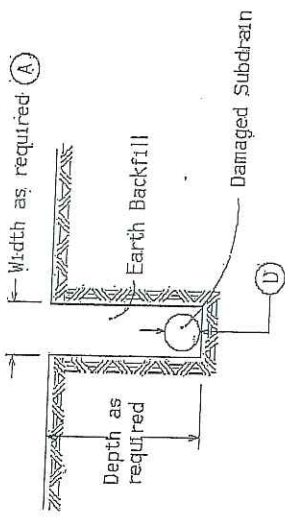
Times of closure:

Tile Line Repair Guideline



Note:

Replacement of drainage tile shall be accomplished so as to cause the minimum of disturbance to existing field tile. The repaired drainage tile shall be left in a functional condition with special emphasis placed on maintaining existing flow line elevations.



(A) = A minimum of 24" shall be excavated outside the normal utility trench wall or such greater width as may be required to expose a minimum of 12" of undamaged drain tile.

REPLACEMENT SCHEDULE - CASE 'A'															
Existing Tile ①	4	6	8	10	12	15	18	21	24	>24					
Proposed Subdrain Size															
Concrete Pipe															
Coated C.M.P.	10	12	15	18	21	24	30	36	36	*					

* Replacement sizes provide equivalent capacity based on 6" settlement assuming a 0.20% slope with $n = 0.013$ for concrete pipe and $n = 0.025$ for corrugated pipe (Manning Formula)

NOTES:

Tile lines disturbed within the right-of-way (outside the Roadway Embankment Area *) limits shall be repaired as follows:

May be repaired with schedule 40 PVC pipe of compatible size or in accordance with the replacement schedule-case 'A' as listed above. Replacement with schedule 40 PVC pipe shall require using a connecting device of a Femco plain and plain flexible pipe coupling or equal.

Tile lines disturbed within the "Roadway Embankment Area" shall be replaced in accordance with the replacement schedule - case 'A' stated above and as follows:

① Concrete collar to be placed around joint where existing tile line and corrugated aluminumized metal pipe connect.

② Minimum length of corrugated metal pipe shall be 4 feet. Minimum length of 2 feet on each side of the tile line break location.

③ Trench shall be backfilled with 8 inches loose material, compacted to 6 inches with a minimum of 95% compaction of natural density.

A. Backfill and compact area around drain tile to be completed by hand until new tile is completely covered. Remainder of the trench shall be backfilled by acceptable methods.

B. Area shall require inspection by the Iowa Department of Transportation inspectors or their designated personnel prior to backfilling of trench.

* "Roadway Embankment Area" is defined as the area lying between the foreslopes of a two-lane roadway and from near foreslope to far foreslope of a four-lane roadway.

Table 2601.03-1: Rural Stabilizing Crop Seeding Rates and Schedule

March 1 through October 31	
Oat	50 lbs. per acre
Grain rye	50 lbs. per acre
Canada wildrye (<i>Elymus canadensis</i>)	5 lbs PLS. per acre
November 1 through February 28 (or 29)	
Oat	62 lbs. per acre
Grain rye	62 lbs. per acre
Canada wildrye (<i>Elymus canadensis</i>)	7 lbs. PLS. per acre
For stabilizing crop only. Canada wildrye (<i>Elymus canadensis</i>) seed will not be required to be certified as Source Identified Class (Yellow Tag) Source G0-Iowa.	
Canada wildrye (<i>Elymus canadensis</i>) seed shall be debearded or equal to facilitate application of seed.	

Table 2601.03-2: Urban Stabilizing Crop Seeding Rates

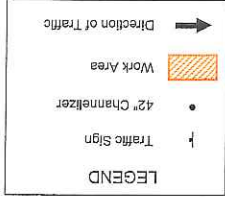
Bluegrass, Kentucky ¹	126 lbs. per acre
Ryegrass, Perennial (turf-type variety) ²	40 lbs. per acre
Fescue, Creeping Red	18 lbs. per acre
1. Choose three different cultivars of Kentucky bluegrass, at 42 lbs. per acre each.	
2. Choose two different cultivars of turf-type perennial ryegrass, at 20 lbs. per acre each.	

Table 2601.03-3: Permanent Seed Rates, Rural Areas

Fescue, Tall (Fawn)	100 lbs. per acre
Ryegrass, Perennial (Linn)	75 lbs. per acre
Bluegrass, Kentucky	20 lbs. per acre

Table 2601.03-4: Permanent Seed Rates, Urban Areas

Bluegrass, Kentucky ¹	126 lbs. per acre
Ryegrass, Perennial (turf-type variety) ²	40 lbs. per acre
Fescue, Creeping Red	18 lbs. per acre
1. Choose three different cultivars of Kentucky bluegrass, at 42 lbs. per acre each.	
2. Choose two different cultivars of turf-type perennial ryegrass, at 20 lbs. per acre each.	



SPEED LIMIT (mph)	40 or less	500'	250'	40'	100'
A	B	C	T		
65 - 70	1500'	500'	100'	100'	230'
55 - 60	1500'	500'	100'	100'	200'
45 - 50	700'	350'	80'	80'	200'

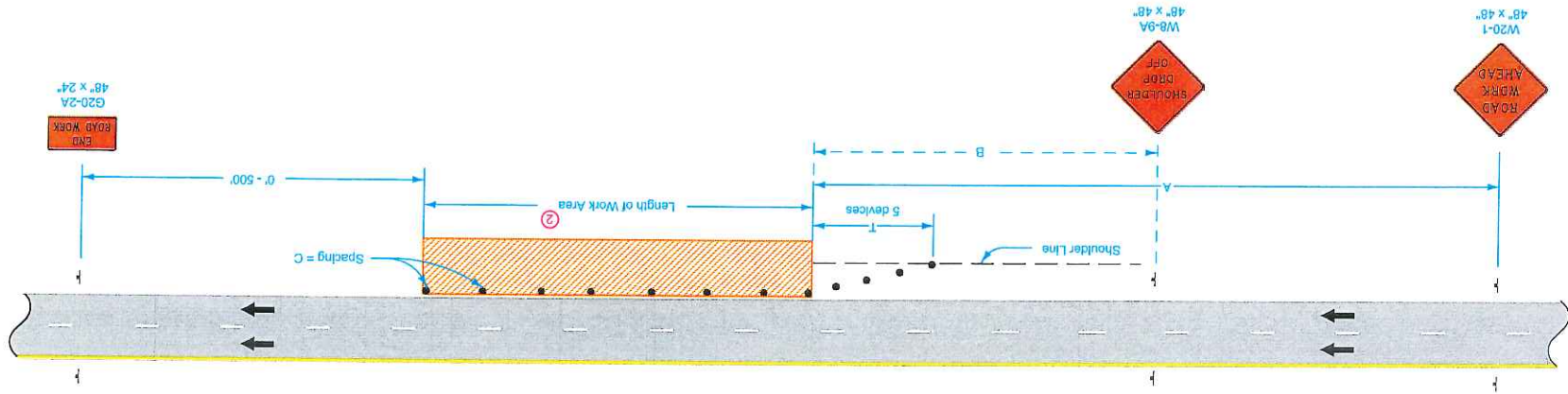
- ① When the length of a pavement edge drop-off is 1000 feet or less, the temporary fill requirement of Article 1107.08 of the Standard Specifications does not apply. Reduce channelizer spacing to 40 feet.
- ② For work areas less than 200 feet long, use channelizers spaced at 20 foot centers or use a vehicle with an amber revolving light or amber strobe light.

When a pavement edge drop-off exists, install a SHOULDER DROP-OFF sign.

No pavement edge drop-offs greater than pavement depth will be allowed during non-working hours.

Shoulder edge drop-offs shall be mitigated according to Article 1107.08.L2 of the Standard Specifications.

For work lasting less than one hour, refer to TC-1.



WORK WITHIN 15 FT
OF TRAVELED WAY

IOWA DOT

STANDARD ROAD PLAN
TC-402

REVISION 04-21-15

APPROVED BY DESIGN METHOD ENGINEER

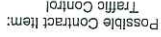
REVISIONS: Modified general notes, changed title and replaced the DOT logo in the title block with the new version.

SHEET 1 of 1

Possible Contract Item:
Traffic Control

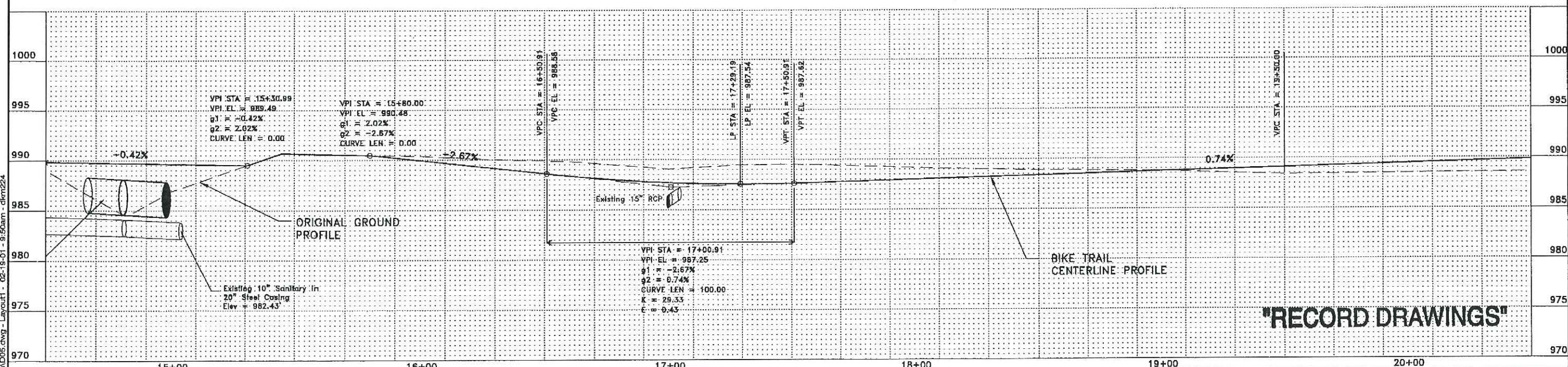
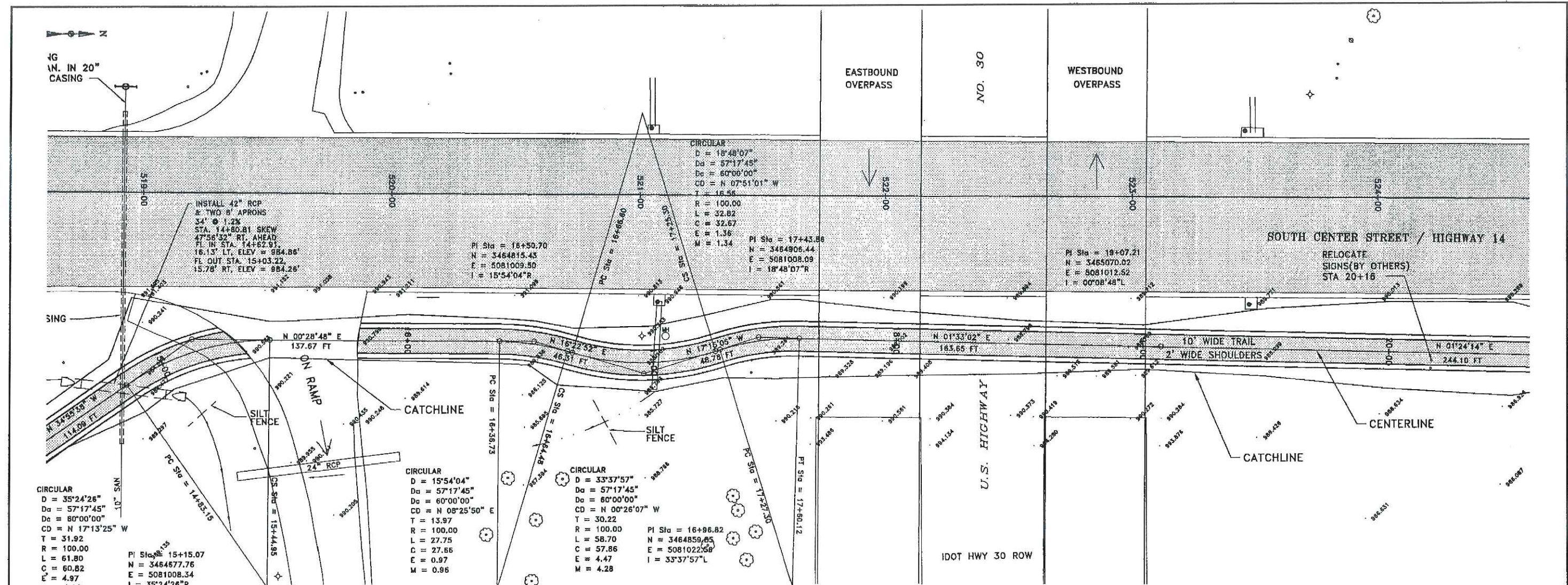
LEGEND	
Direction Of Traffic	
Traffic Sign	
Drum	
42" Channelizer	
Arrow Board	
Work Area	

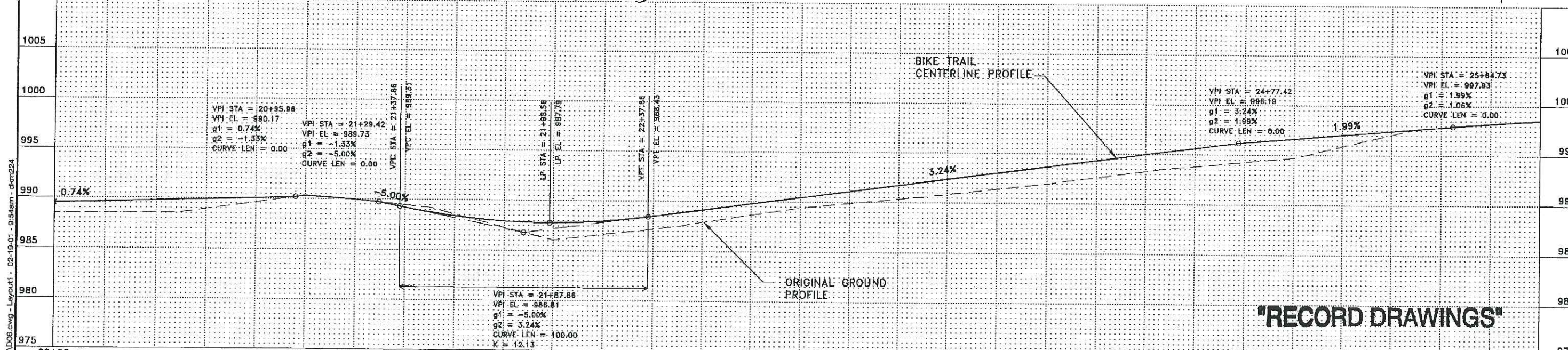
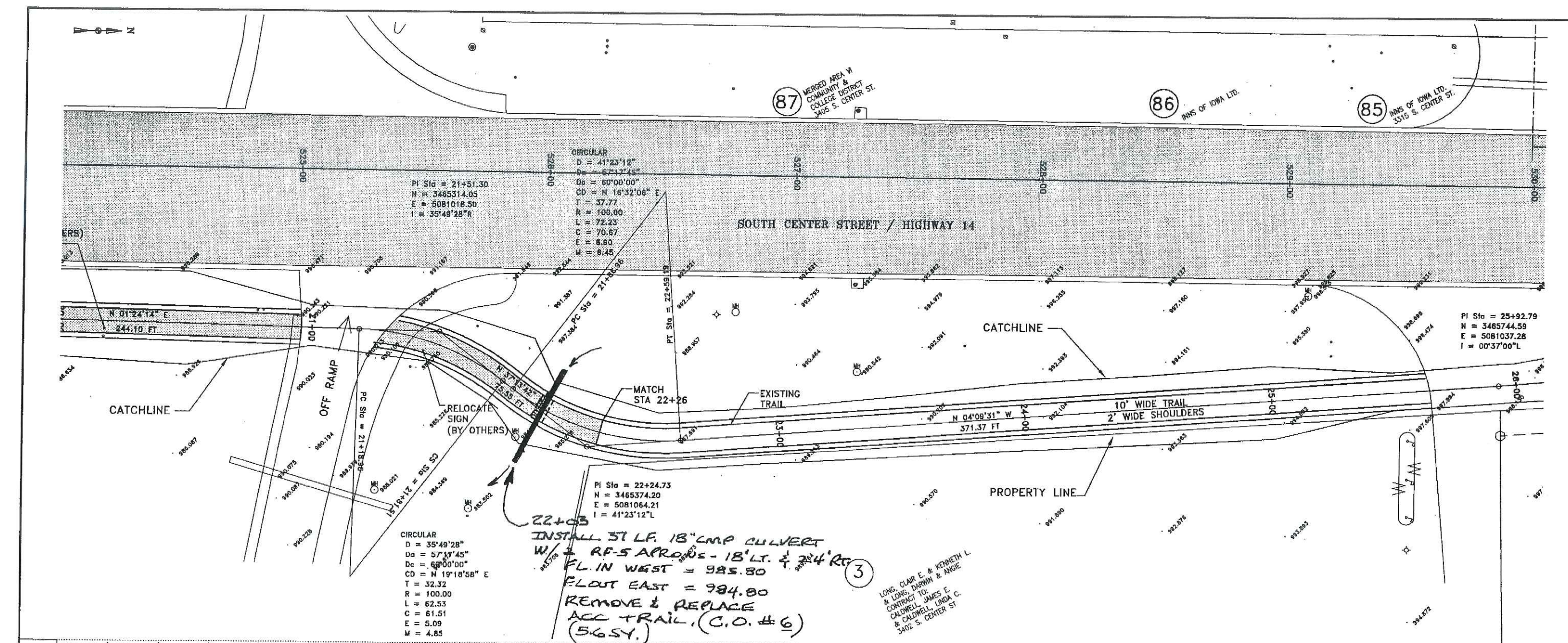
Place SPEED LIMIT 55 signs prior to the lane closure as shown. When the length of closure is greater than 1 mile, install SPEED LIMIT 55 signs in the closed lane at 1-mile intervals. Remove or cover all existing signs that conflict with 55 mph speed limit while 55 mph speed limit is in effect. For lanes closed to traffic, place two drums every 1,000 feet. For full depth excavations in a closed lane, place two drums in front of each location. Additional drums need not be placed for full depth excavations spaced closer than 150 feet.

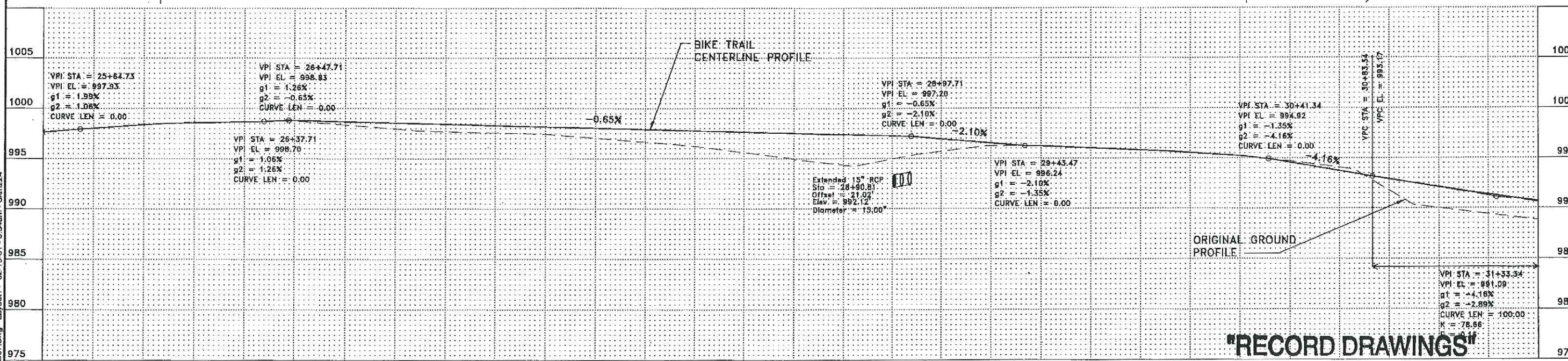
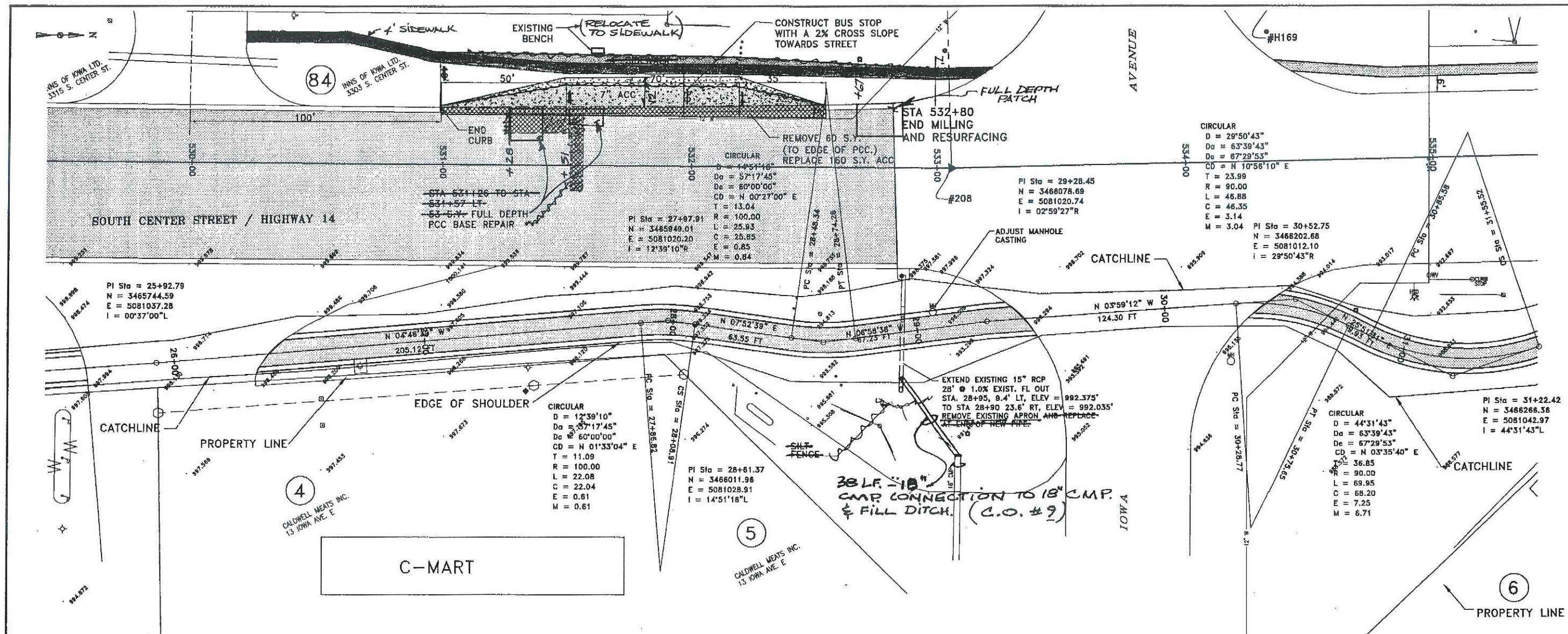


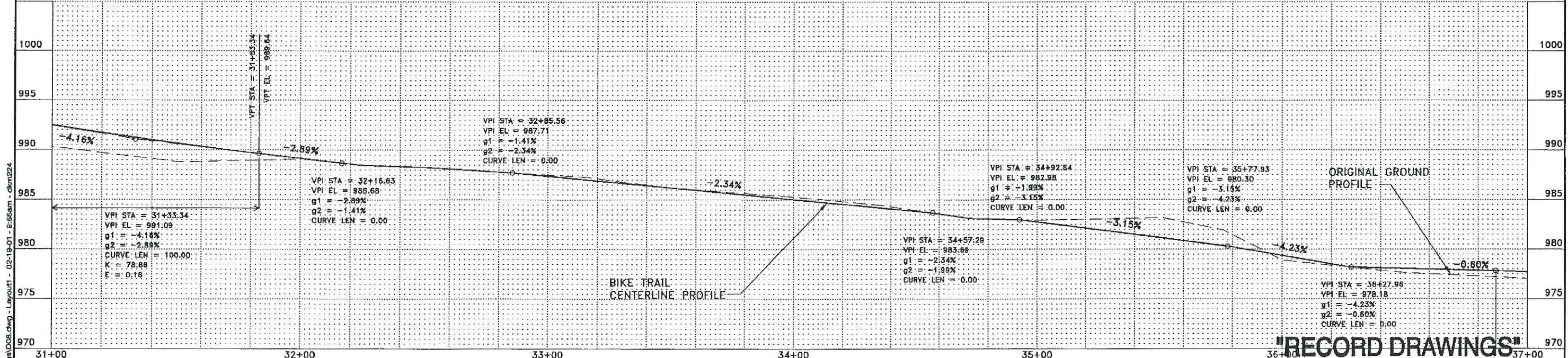
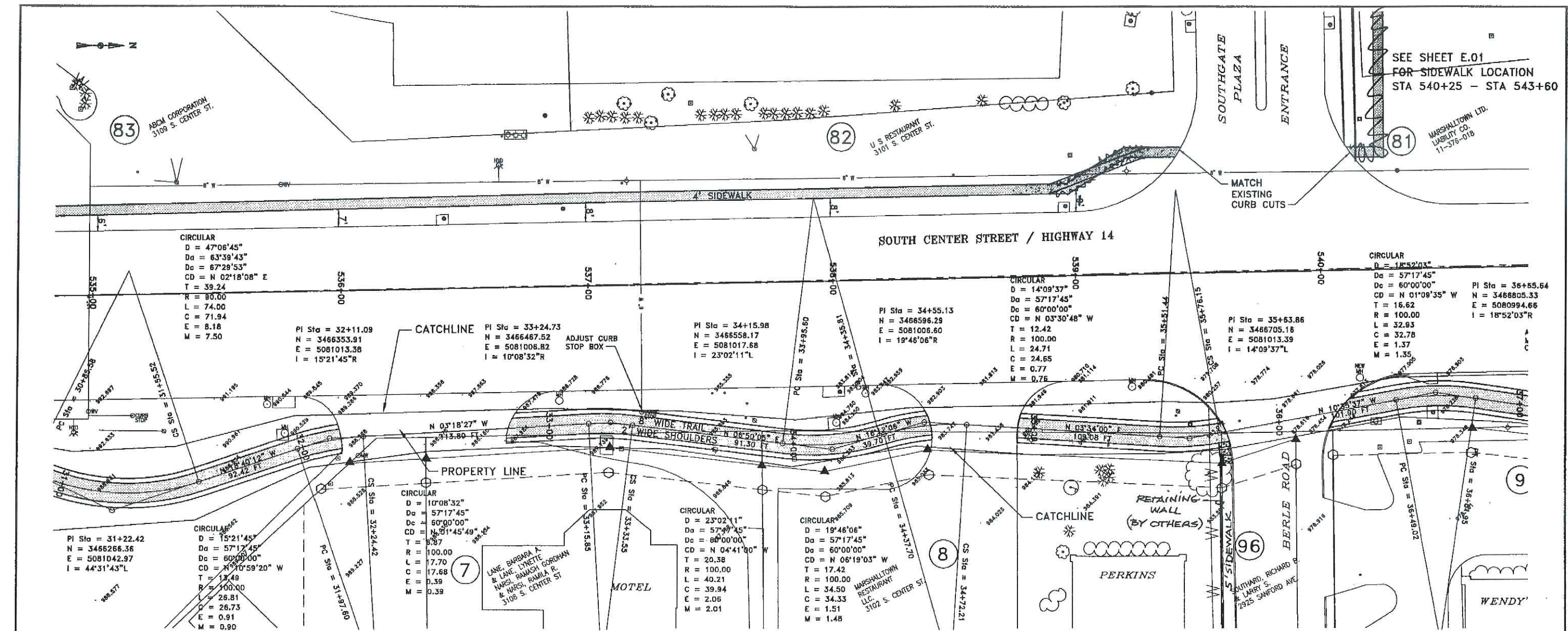
REVISION	
11	04-16-19
TC-418	

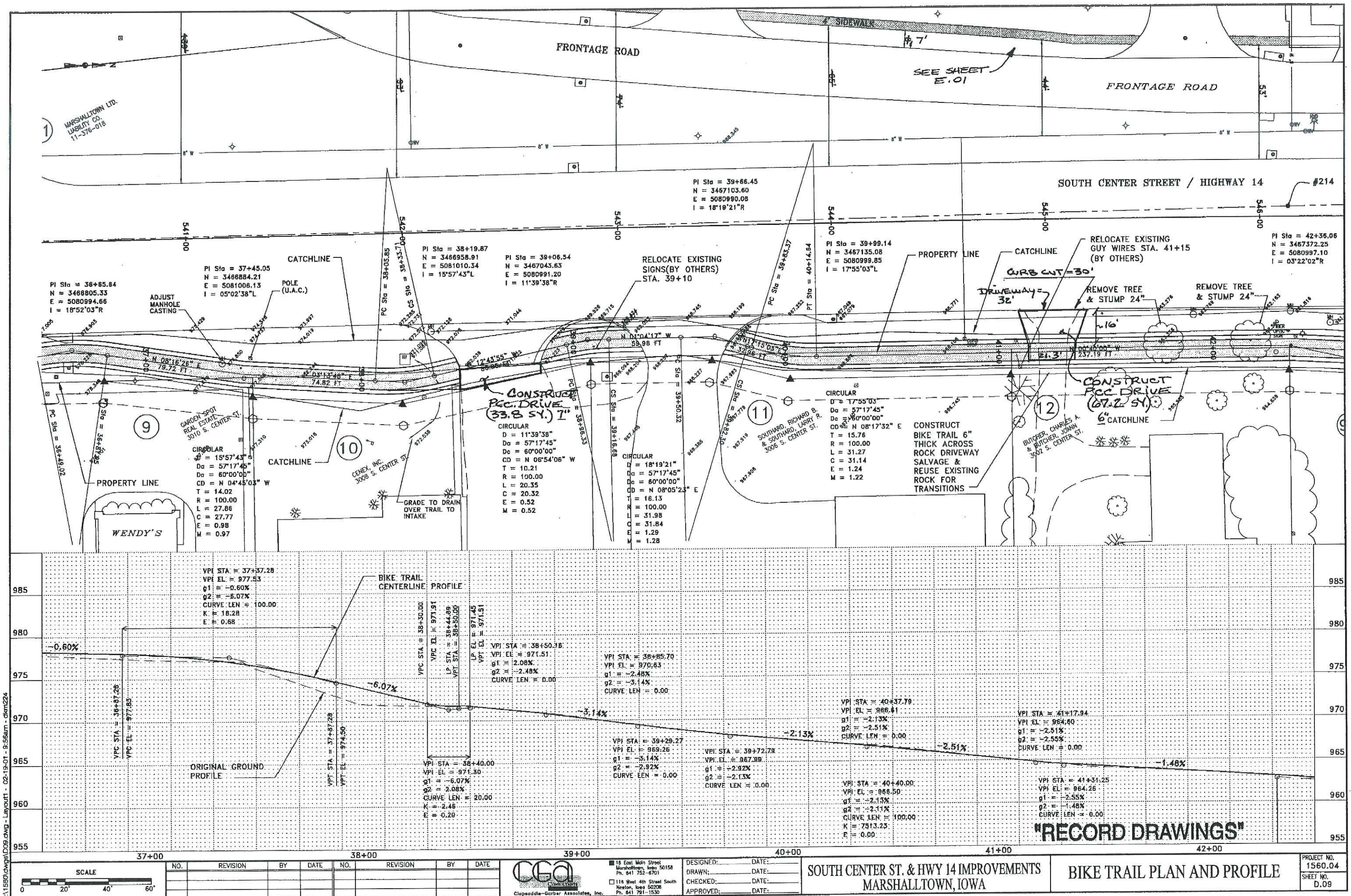
LANE CLOSURE ON DIVIDED HIGHWAY

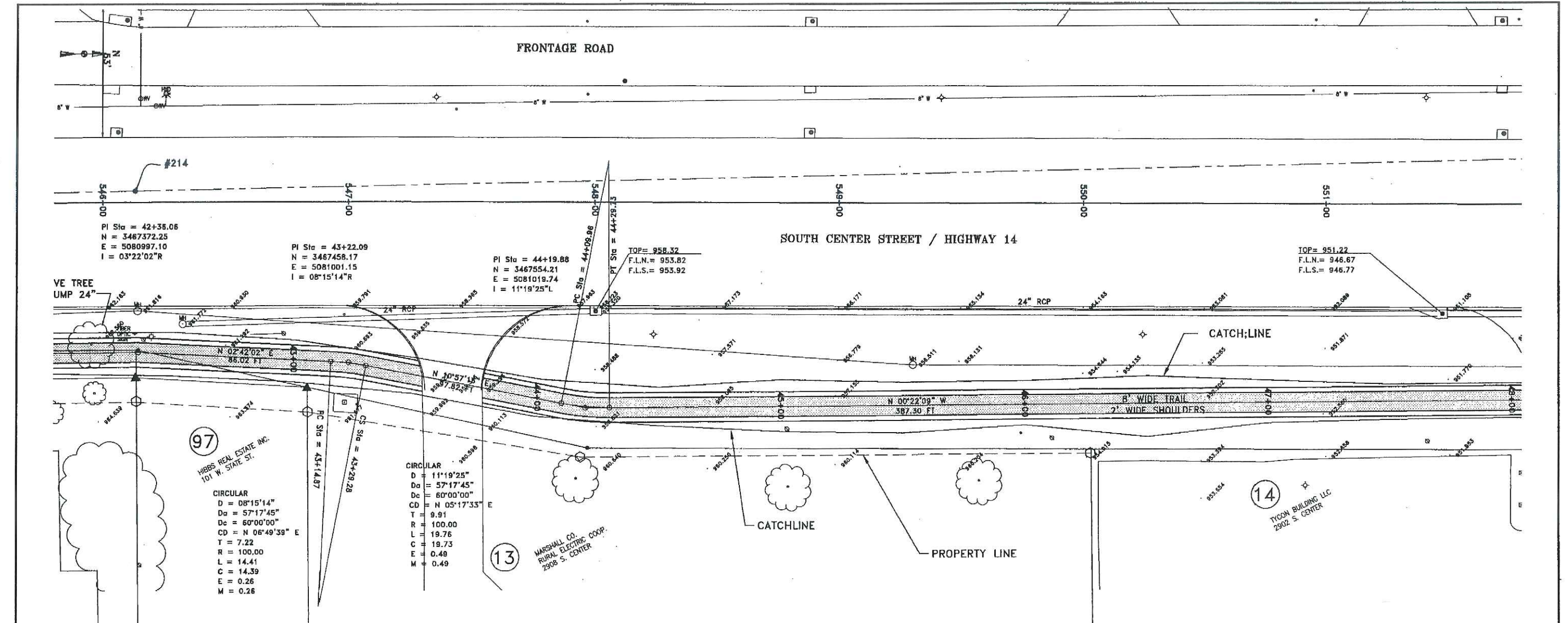


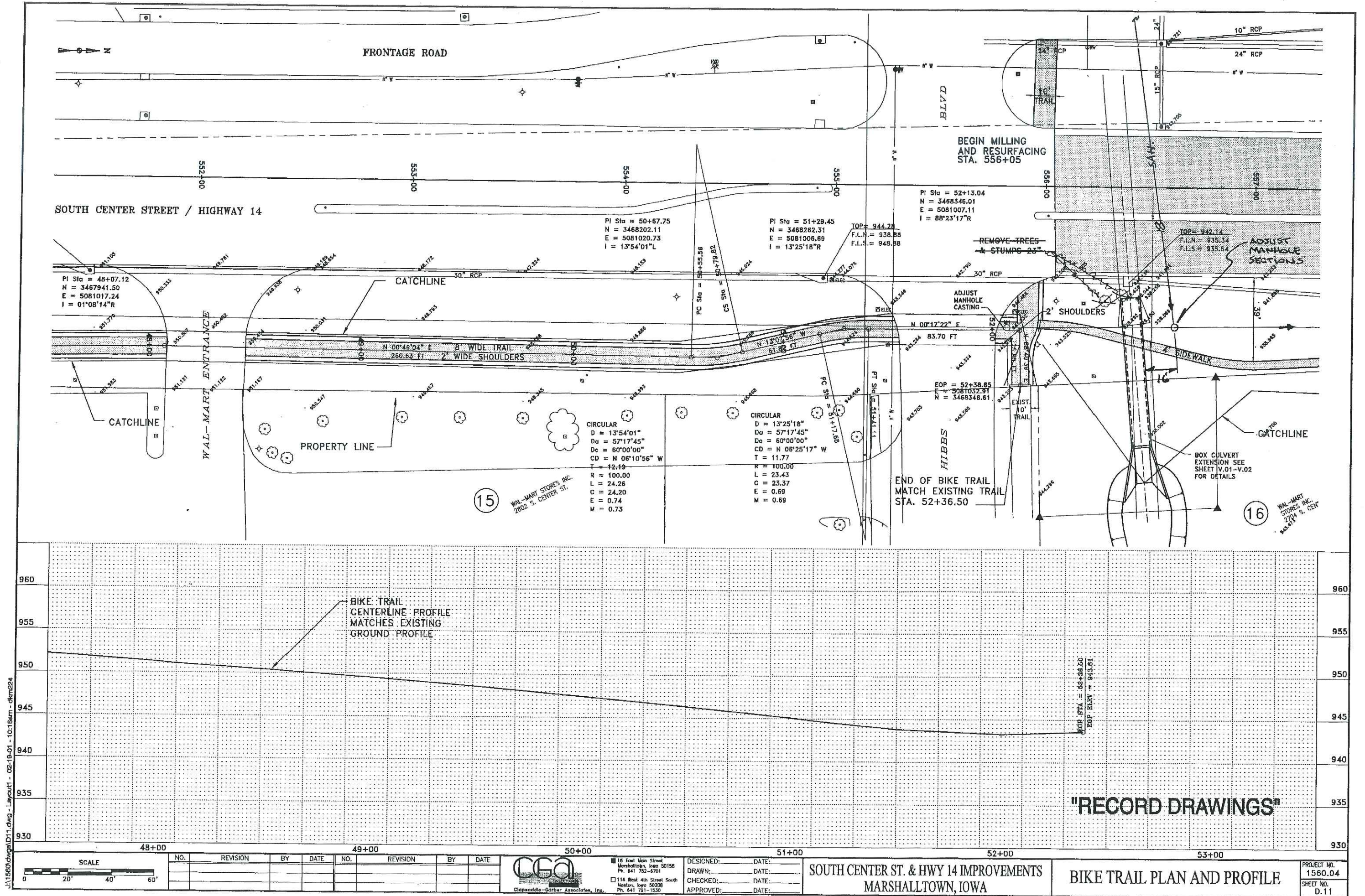


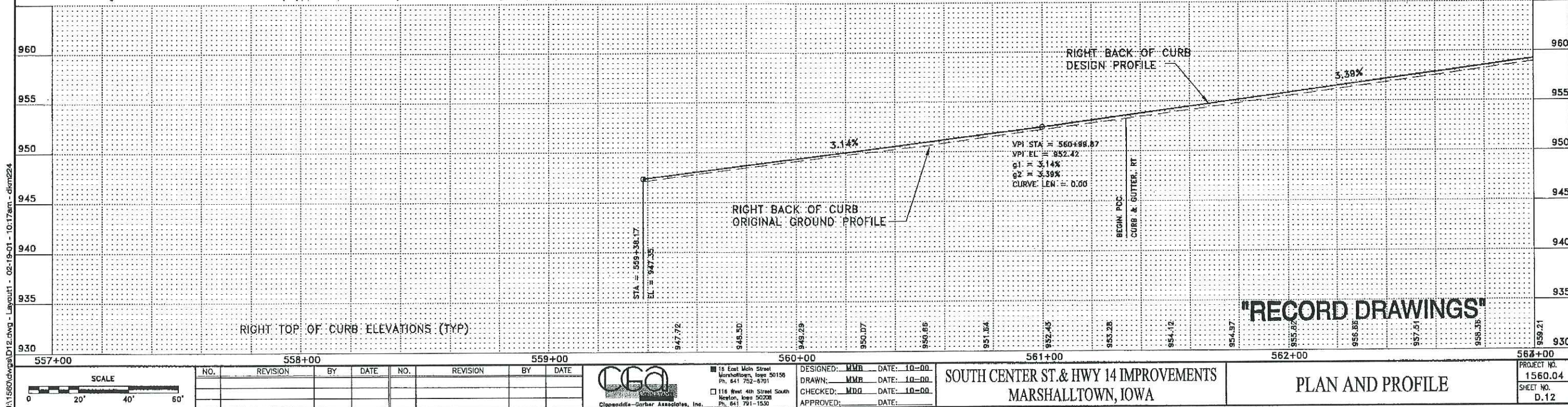
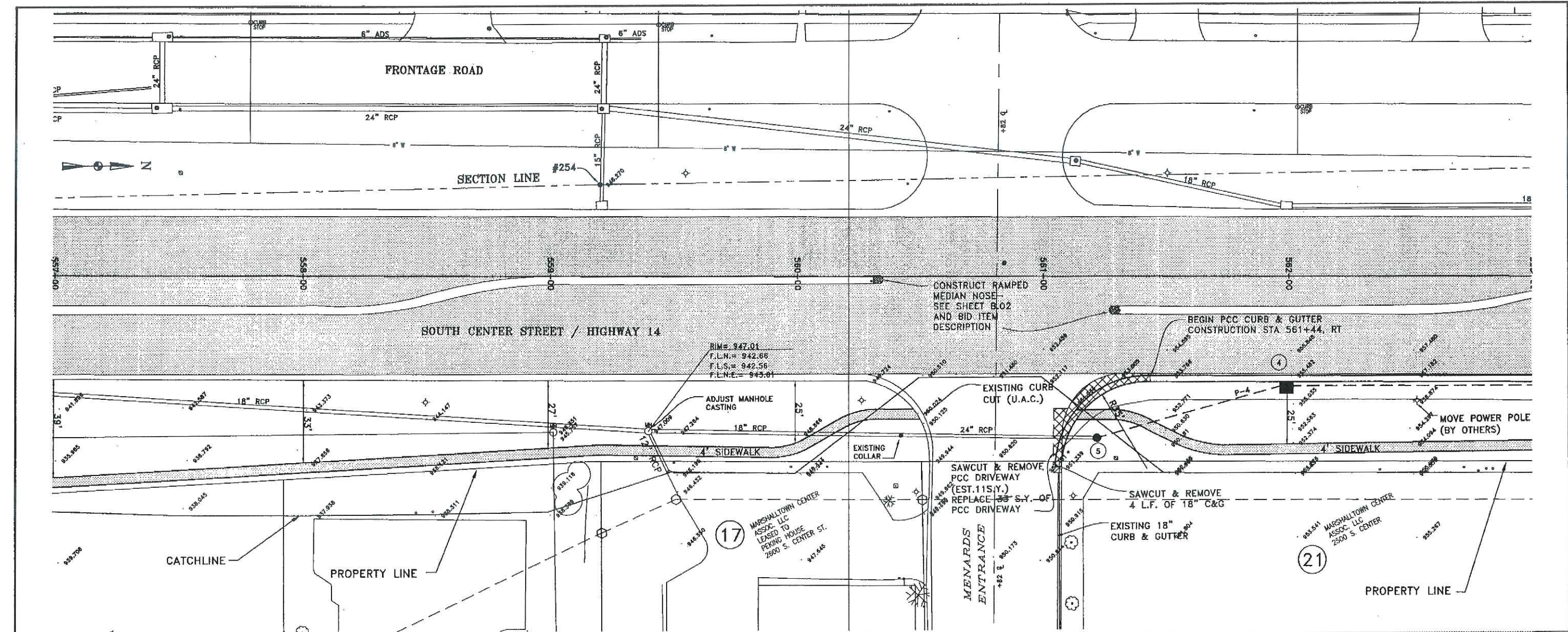




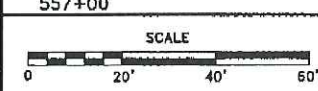








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NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE



18 East Main Street
Marshalltown, Iowa 50158
Ph. 641 752-6701
118 West 4th Street South
Newton, Iowa 50208
Ph. 641 791-1530

DESIGNED: MWR DATE: 10-00
DRAWN: MWR DATE: 10-00
CHECKED: MDO DATE: 10-00
APPROVED: DATE:

SOUTH CENTER ST. & HWY 14 IMPROVEMENTS
MARSHALLTOWN, IOWA

PLAN AND PROFILE
PROJECT NO.
1560.04
SHEET NO.
D.12

