

FOR DEPARTMENT USE ONLY		
Permit Number 77U-2021-081	Highway Number US 6	County Polk
DOT Project Number STP-6-4(119)--2C-77		Expiration/Completion Date 5-5-22

APPLICANT (INDIVIDUAL OR COMPANY)				
First Name Mario	Middle Initial A	Last Name Szlapka	Phone Number 515-252-6623	Ext.
Company Name MidAmerican Energy Company			Phone Number	Ext.
Street Address 10510 Douglas Ave		City/Town Urbandale	State IA	ZIP Code 50322
e-Mail Address Mario.Szlapka@midamerican.com		Secondary e-Mail Address		

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:
With the DOT's road project taking place and pushing the ROW further back, MEC will be converting a few portions underground due to certain placement of overhead poles, grade cuts, and clearances over future traffic signals. Overall MEC will need to install (3) switchgears all within easement, (1) 600 amp PE, (1) 25 KVA transformer, (5) pull-pull switches, (1) 3-Phase riser, (2) single phase risers, (8) wood pole installations, (8000') of boring time for conduit, (9500') of pulling cable, and the removal of (13) wood poles and its overhead conductor.

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).) <http://www.iowadot.gov/traffic/pdfs/UtilityPolicy.pdf>

WORK SITE LOCATION

The proposed work as described above is located in Section 29, Twp. 79, Range 25 on Highway No. 6 generally located 0 (miles) West (direction) from Intersection of 128th St & HWY 6 (city, county line, or other landmark). Work proposed is more specifically located as being from 126.56 (Milepost #) and 193+00 (Highway Station) to 127.14 (Milepost #) and 205+00 (Highway Station) on the North 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.

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.

A. General

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. <http://www.iowadot.gov/traffic/pdfs/UtilityPolicy.pdf>
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. http://www.iowadot.gov/design/std/pln_tc.htm
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. <http://www.iowadot.gov/traffic/utility/pdfs/511UtilityNotification.pdf>

E. Buy America

Buy 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: <http://www.iowadot.gov/traffic/utility/utility.html>

Permit Number: _____

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

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) Mario Szlapka	Agent/Owner (Signature) <i>Mario A Szlapka Jr</i>	Title Engineer II
Name of Owner (Print or Type) MidAmerican Energy Company	Date 03/24/2021	
e-Mail Address MASzlapka@midamerican.com		

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 <i>[Signature]</i>	Title <i>City Engineer</i>	Date <i>4/29/21</i>
Type or Print Name <i>John B. Larson</i>	Authorized Official for the City of <i>Urbandale</i>	
e-Mail Address <i>jlarson@Urbandale.org</i>		

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	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

Permit Number: *770-2021-081*

Authorized Highway District Representative Jeffrey Cunningham	Signature <i>[Signature]</i>	Date <i>5-5-21</i>
e-Mail Address jeffrey.cunningham@iowadot.us		

Notice of intention to commence activities on the highway rights-of-way shall be submitted by the applicant a minimum of 48 hours prior to actually commencing the activities as herein granted by this approved application. Notice is to be given to the following Iowa Department of Transportation representative. Except in emergencies a 10 day advance notice is required for lane restrictions of any kind.

Local DOT Contact Person (Type or Print Name) <i>James Hanson</i>	Phone Number <i>515-834-2368</i>
Street Address <i>33654 Overton Circle</i>	City/Town <i>Adel</i>
e-Mail Address <i>james.hanson@iowadot.us</i>	State IA
	ZIP Code <i>50003</i>

Permit Number: _____



District One
Des Moines Area Engineer's Office

May 5, 2021

Permit 77U-2021-081

MidAmerican Energy Company
Attn: Mario Szlapka
10510 Douglas Avenue
Urbandale, IA 50322

Enclosed is a copy of approved permit number 77U-2021-081, Application and Agreement for use of Highway Right of Way for Relocating utilities for IDOT Project at 128th Street. at stations 193+00 to 205+00 on US 6.

Please note the stipulations and changes that we may have made since the permit was submitted.

A copy of this permit must be at the work site at all times while work is in progress.

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

Sincerely,

Jeffrey Cunningham
Access\Utility Specialist

Attachments

JC/jc.

Cc: Matthew Buttz, IDOT 800 Lincoln Way Ames IA, 50010
James Hanson, IDOT 33654 Overton Circle Adel IA 50003
John Larson, City of Urbandale 3600 86th St Urbandale IA 50322
File

Special Requirements:

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

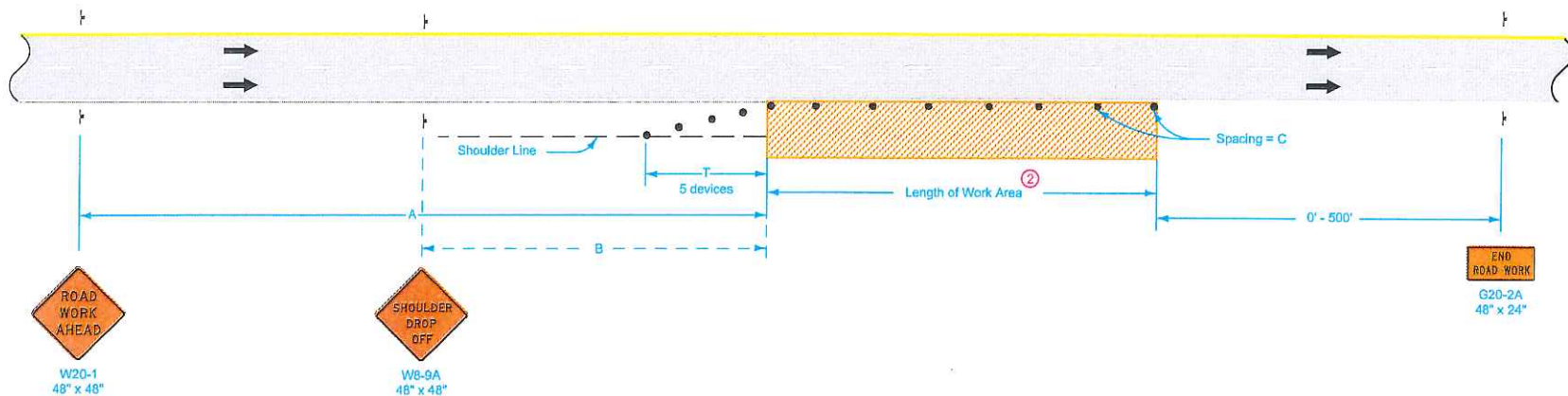
No hole shall remain open within the Right of Way during non-working hours.

Right of Way shall be restored immediately upon completion of project.

No parking on shoulders.

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

Proper traffic control shall be used at all times.



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.

① When the length of a pavement edge drop-off is 1000 feet or less, the temporary fillet 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.

Possible Contract Item:
Traffic Control

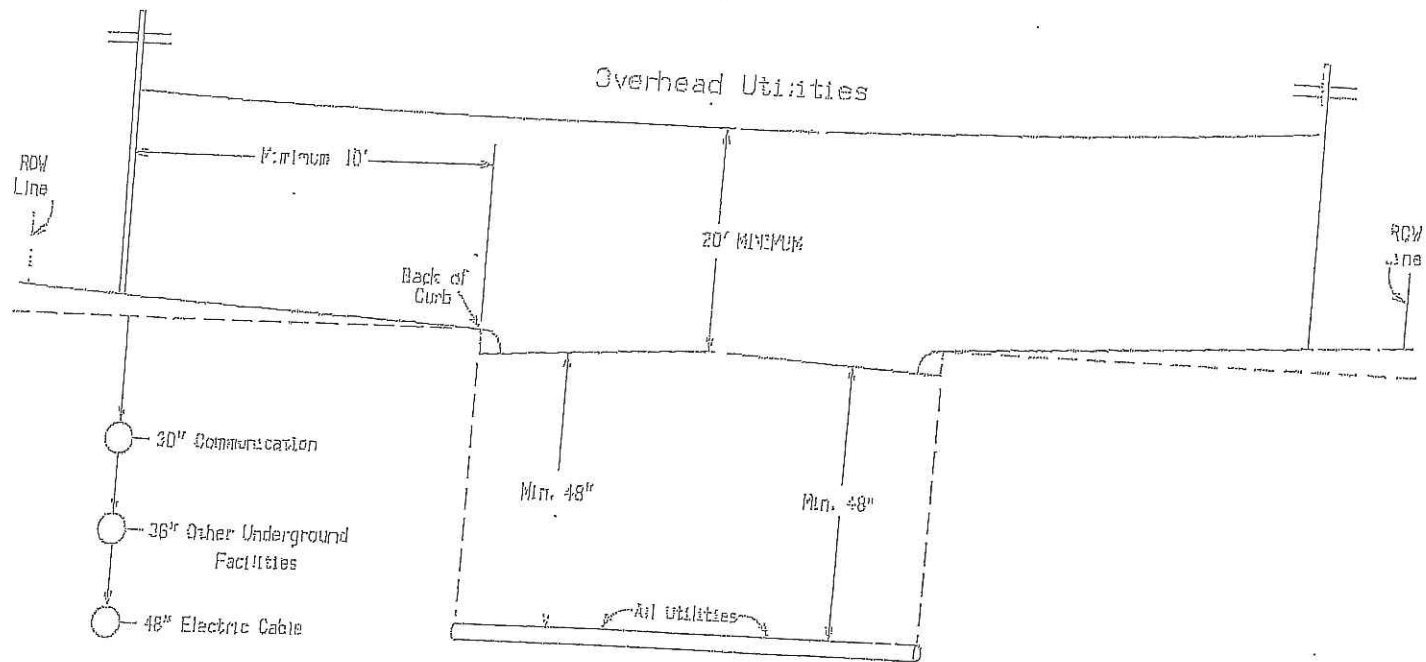
LEGEND

- Traffic Sign
- 42" Channelizer
- Work Area
- Direction of Traffic

SPEED LIMIT (mph)	A	B	C ^②	T
40 or less	500'	250'	40'	100'
45 - 50	700'	350'	80' ①	200'
55 - 60	1500'	500'	100' ①	200'
65 - 70	1500'	500'	100' ①	230'

 STANDARD ROAD PLAN	REVISION 8 04-21-15
	TC-402
SHEET 1 of 1	
REVISIONS: Modified general notes, changed title and replaced the DOT logo in the title block with the new version.	
 <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
WORK WITHIN 15 FT OF TRAVELED WAY	

Minimum Policy Requirements Urban Section Non - Freeway Highway



Notes:
 Utilities shall be located between back of curb and the highway row.
 Utilities should be located as near to the highway row line as practical.
 See Utility Policy, Section 15.13 for further details.

E-9

01/2012

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

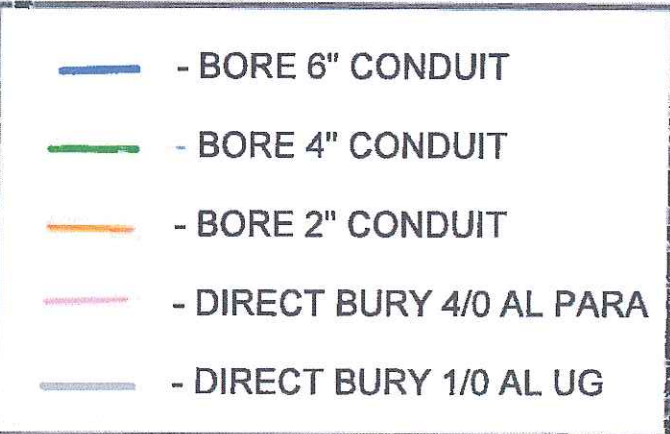
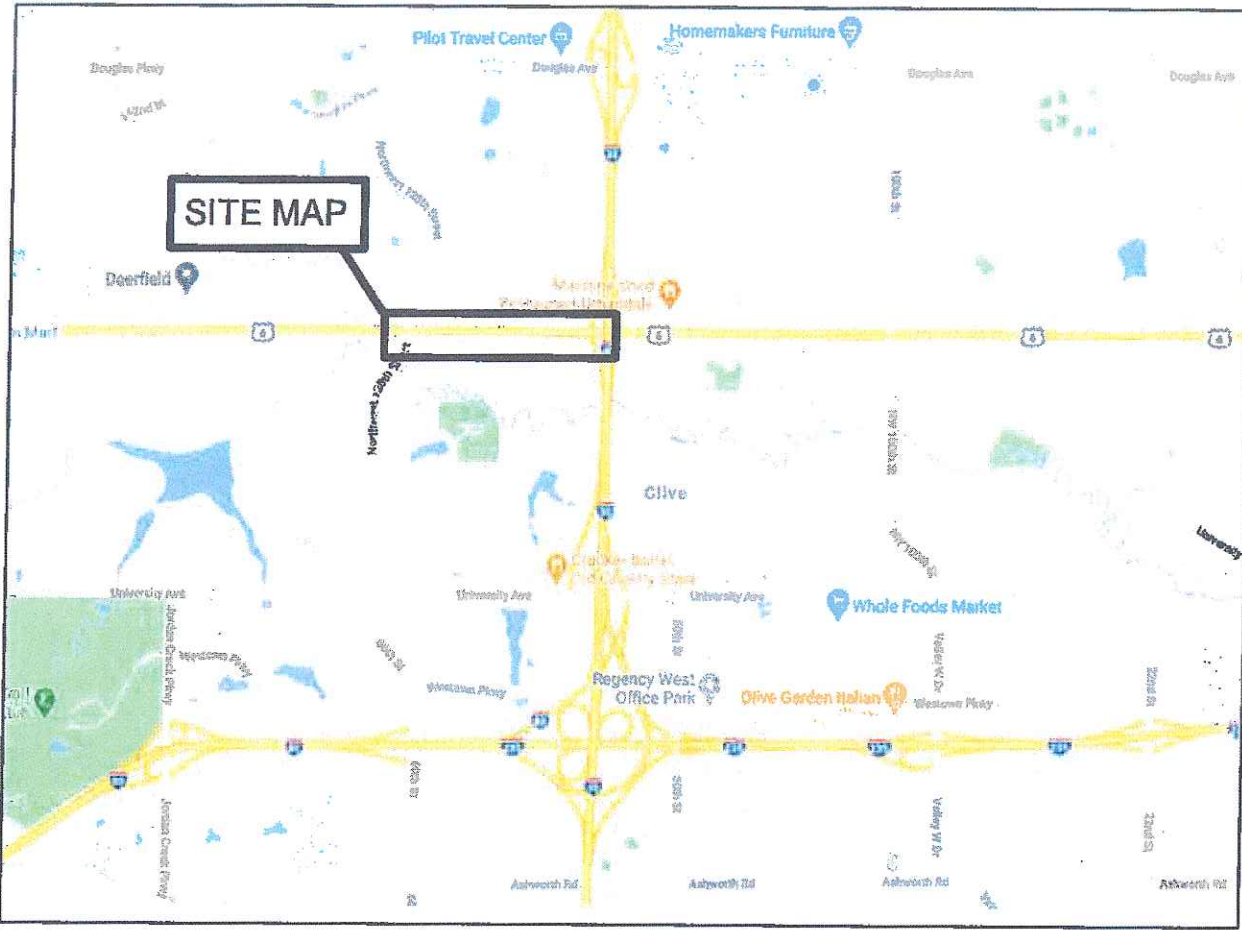
design speed	design ADT	FORESLOPES			BACKSLOPES		
		6:1 or flatter	Steeper than 6:1, up to and including 4:1	Steeper than 4:1	Steeper than 4:1*	4:1 or flatter, up to 6:1	6:1 or flatter
40 mph or less	ADT < 750	7	7	**	7	7	7
	750 ≤ ADT < 1500	10	12	**	10	10	10
	1500 ≤ ADT < 6000	12	14	**	12	12	12
	ADT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

* 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 steeper than 4:1 cannot be counted in the clear zone determination. Refer to Section 8A-2 of the Design Manual for information on providing clear recovery areas at the base of steep slopes.

ELECTRICAL DISTRIBUTION DESIGN FOR: 128TH & HICKMAN URBANDALE/CLIVE, IA

CUSTOMER SHALL PROVIDE THE FOLLOWING	
X	911 ADDRESSES
X	EASEMENTS & EASEMENT DESCRIPTION (METES & BOUNDS), MUST STAKE EASEMENTS PRIOR TO CONSTRUCTION
X	STAKING FOR STREETLIGHT PLACEMENT
X	STAKED LOT CORNERS & SIDELOT MID-POINTS
X	TRANSFORMER PAD(S) - REFER TO ELECTRIC SERVICE MANUAL
X	FINAL GRADE PRIOR TO CONSTRUCTION
X	CLEARING AND GRUBBING IN EASEMENT AND/OR ROW
X	UNOBSTRUCTED PATH FOR CONSTRUCTION EQUIPMENT
X	10' LEVEL AND CLEAR AREA IN FRONT OF MEC EQUIPMENT DOORS
X	SERVICE CABLES ON COMMERCIAL & APARTMENT BUILDINGS
X	TRANSFORMER FIRE BARRIER WALL IF REQUIRED BY AUTHORITIES
X	ASSESSMENT & IMPLEMENTATION OF SPILL PREVENTION CONTROL & COUNTERMEASURE (SPCC) & OIL CONTAINMENT PLANS SEE APPENDIX B-1, PAGE 89 IN 2014 ELECTRIC SERVICE MANUAL
CUSTOMER CONDUIT INSTALLATION	
X	CONDUIT SHALL BE SCH 40 RIGID PVC PER NEMA TC-2 OR SCH 40 HDPE COILABLE CONDUIT IN GRAY OR BLACK W/ RED STRIPE
X	ALL SWEEPS 4" OR LESS IN DIAMETER SHALL BE STANDARD WALL FIBERGLASS PER NEMA TC14A W/ FACTORY ASSEMBLED PLASTIC COUPLINGS ON EA. END TO MATE PVC OR HDPE SCH 40 CONDUIT
X	ALL SWEEPS GREATER THAN 4" IN DIAMETER SHALL BE METAL WITH GROUND LUGS AND MUST BE BONDED WHERE EXPOSED
X	ALL 90° SWEEPS MUST HAVE A MINIMUM 48" BEND RADIUS
X	ENDS SHALL BE STUBBED ABOVE GRADE W/ PULL TAPE VISIBLE
X	ALL PRIMARY CONDUIT SHALL HAVE A MINIMUM COVER DEPTH OF 42" AND MAXIMUM DEPTH OF 48"
X	ALL SECONDARY CONDUIT SHALL HAVE A MINIMUM COVER DEPTH OF 30" AND A MAXIMUM DEPTH OF 36"
X	NO CONDUIT SYSTEM SHALL HAVE MORE THAN 270° IN ONE PULL
X	CUSTOMER INSTALL SYNTHETIC 1/4" 200LB TEST PULL LINE IN DUCT
FIND ELECTRIC SERVICE MANUAL AT: http://www.midamericanenergy.com/include/pdf/elec_srv_manual.pdf	



IOWA
ONE CALL

1-800-292-8989

www.iowaonecall.com

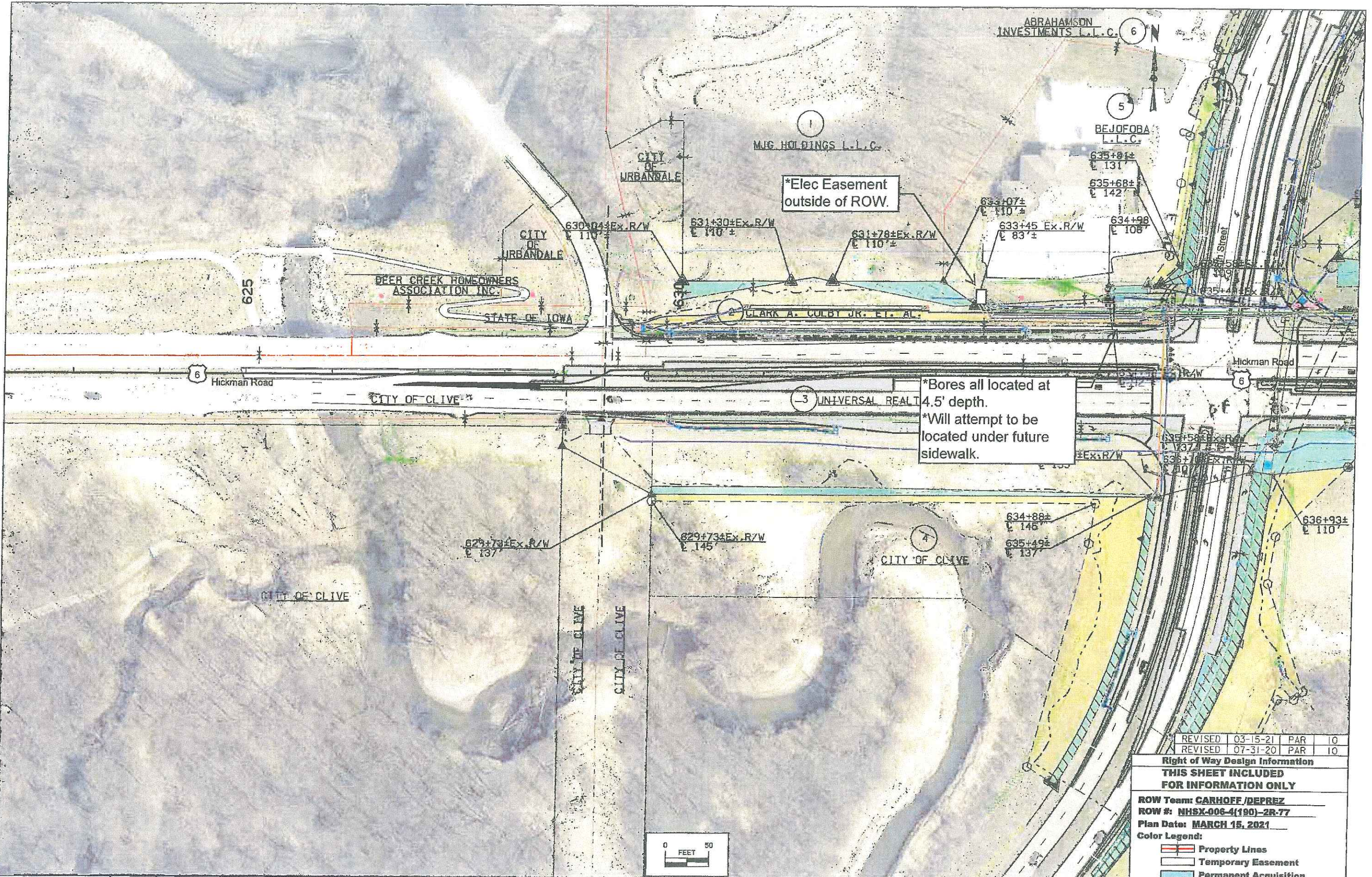
LEGEND	
GRAPHIC	DESCRIPTION
	EXISTING OVERHEAD 1-PHASE CONDUCTOR
	EXISTING OVERHEAD 2-PHASE CONDUCTOR
	EXISTING OVERHEAD 3-PHASE CONDUCTOR
	EXISTING OVERHEAD FEEDER
	EXISTING OVERHEAD TRANSMISSION
	EXISTING UNDERGROUND 1-PHASE CABLE
	EXISTING UNDERGROUND 2-PHASE CABLE
	EXISTING UNDERGROUND 3-PHASE CABLE
	EXISTING UNDERGROUND FEEDER
	EXISTING OVERHEAD SECONDARY CONDUCTOR
	EXISTING OVERHEAD STREETLIGHT CONDUCTOR
	EXISTING UNDERGROUND SECONDARY CABLE
	EXISTING UNDERGROUND STREETLIGHT CABLE
	EXISTING CUSTOMER OWNED SECONDARY
	EXISTING OVERHEAD TRANSFORMER
	EXISTING OVERHEAD TRANSFORMER BANK
	EXISTING OVERHEAD FUSE
	EXISTING OVERHEAD SWITCH
	EXISTING OVERHEAD CAPACITOR BANK
	EXISTING VOLTAGE REGULATOR
	EXISTING RECLOSER
	EXISTING OVERHEAD FAULT INDICATOR
	EXISTING 1-PHASE PADMOUNT TRANSFORMER
	EXISTING 3-PHASE PADMOUNT TRANSFORMER
	EXISTING 4-BAY SWITCHGEAR
	EXISTING 6-BAY SWITCHGEAR
	EXISTING FUSED ENCLOSURE
	EXISTING PRIMARY ENCLOSURE
	EXISTING PAD MOUNT CAPACITOR BANK
	EXISTING SECONDARY PEDESTAL
	EXISTING SECONDARY HANDHOLE
	EXISTING MEC TRANSMISSION POLE
	EXISTING MEC DISTRIBUTION POLE
	CUSTOMER OWNED POLE
	EXISTING DOWN-GUY
	EXISTING STREETLIGHT
	EXISTING SECURITY LIGHT
	EXISTING FLOOD LIGHT
	EXISTING PRIMARY RISER
	EXISTING PRIMARY SPLICE
	EASEMENT
	CUSTOMER INSTALLED DUCT
INSTALLS	INSTALLATIONS ARE DISPLAYED BY RED
REMOVALS	REMOVALS ARE DISPLAYED BY GREEN

MIDAMERICAN ENERGY COMPANY
 Cust: IDOT - 128TH & HICKMAN RECON
 Addr: 128TH & HICKMAN
 City: Clive
 X = 1559769 Y = 588792
 Crew HQ: DMWR
 Job Desc: IDOT Project please create a design that removes us from conflict if any.

↑
 WMS_REV:2810541-1
 Date: 3/11/2021
 Scale: 1 IN = X FT
 Designer: SZLAPKA, MARIO A

DISCLAIMER OF LIABILITY
 NOTE: This drawing reflects facilities in place at the time of its preparation and is subject to change at any time. For current facility information, please contact MidAmerican Energy Company. Further, MidAmerican Energy Company disclaims all liability and responsibility for all claims and damages including but not limited to, personal injury, death and property damage, resulting from any authorized or unauthorized use of, or reliance upon, this drawing for any purpose.

LEGEND



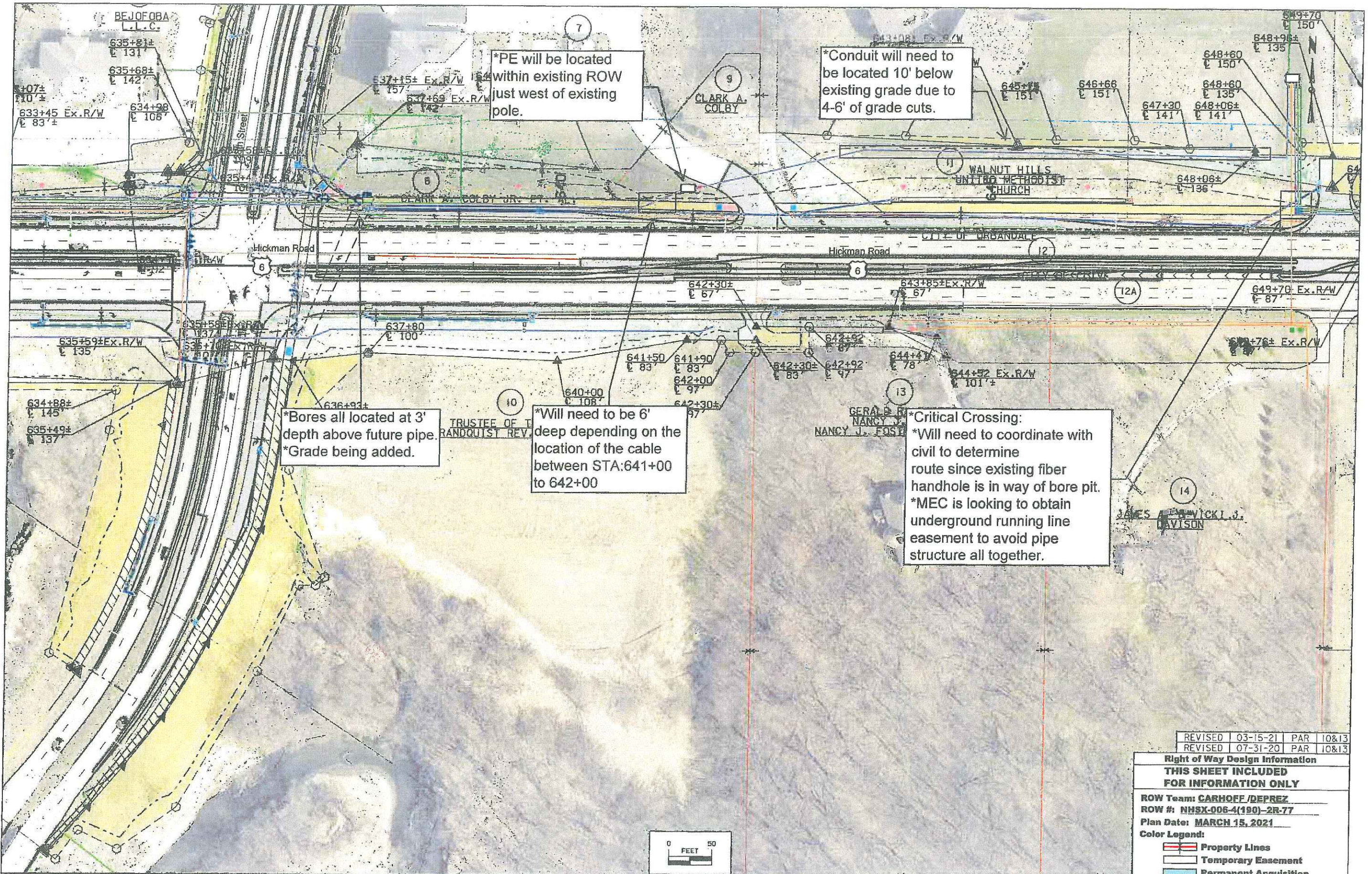
REVISED	03-15-21	PAR	10
REVISED	07-31-20	PAR	10

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: CARHOFF /DEPREZ
ROW #: NHSX-006-4(190)-2R-77
Plan Date: MARCH 15, 2021

Color Legend:
— Property Lines
— Temporary Easement
— Permanent Acquisition





*PE will be located within existing ROW just west of existing pole.

*Conduit will need to be located 10' below existing grade due to 4-6' of grade cuts.

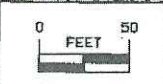
*Bores all located at 3' depth above future pipe.
*Grade being added.

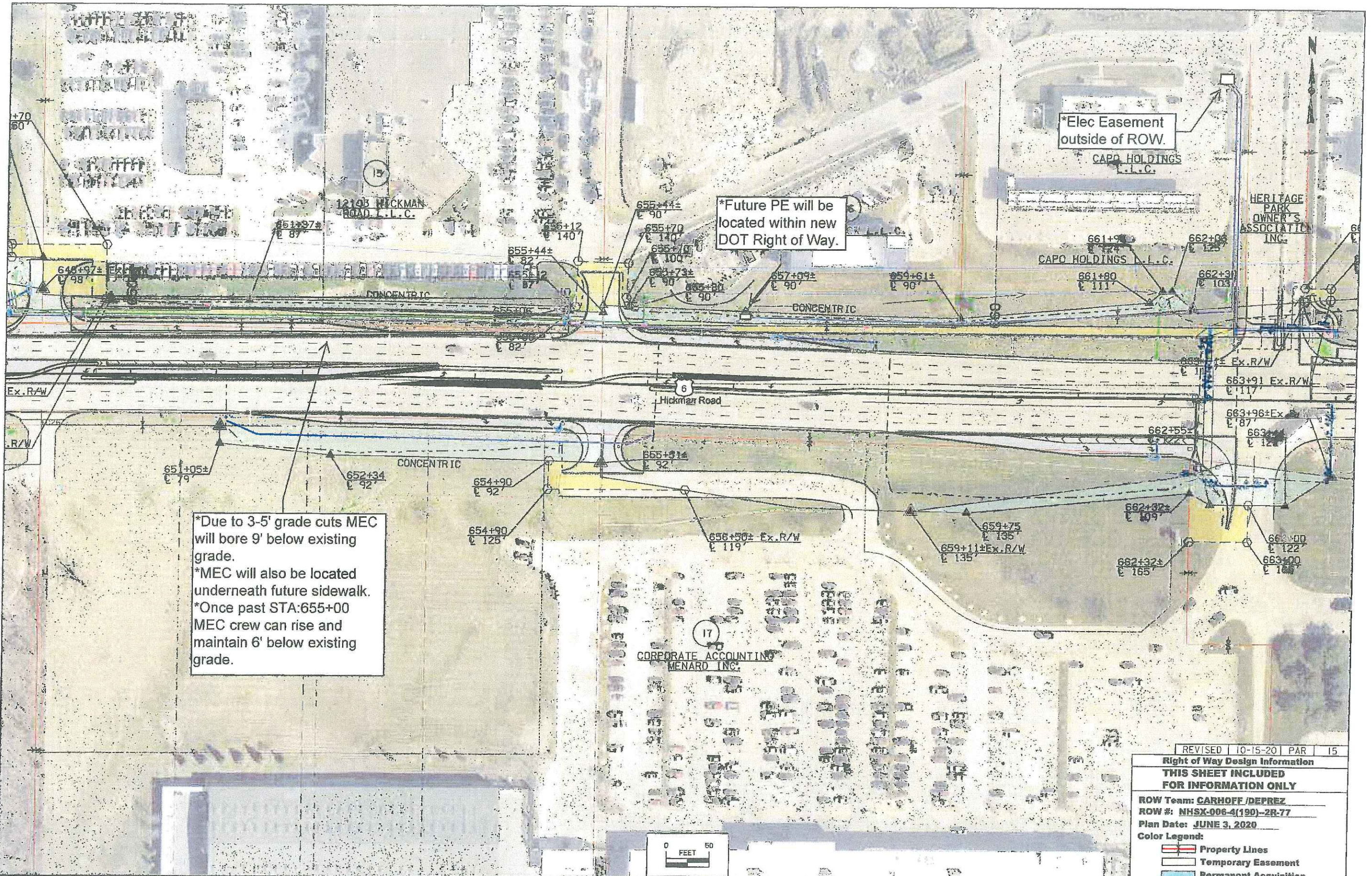
*Will need to be 6' deep depending on the location of the cable between STA:641+00 to 642+00

*Critical Crossing:
*Will need to coordinate with civil to determine route since existing fiber handhole is in way of bore pit.
*MEC is looking to obtain underground running line easement to avoid pipe structure all together.

REVISED	03-15-21	PAR	10&13
REVISED	07-31-20	PAR	10&13

Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team:	CARHOFF /DEPREZ
ROW #:	NHSX-006-4(190)-2R-77
Plan Date:	MARCH 15, 2021
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



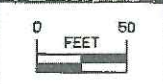


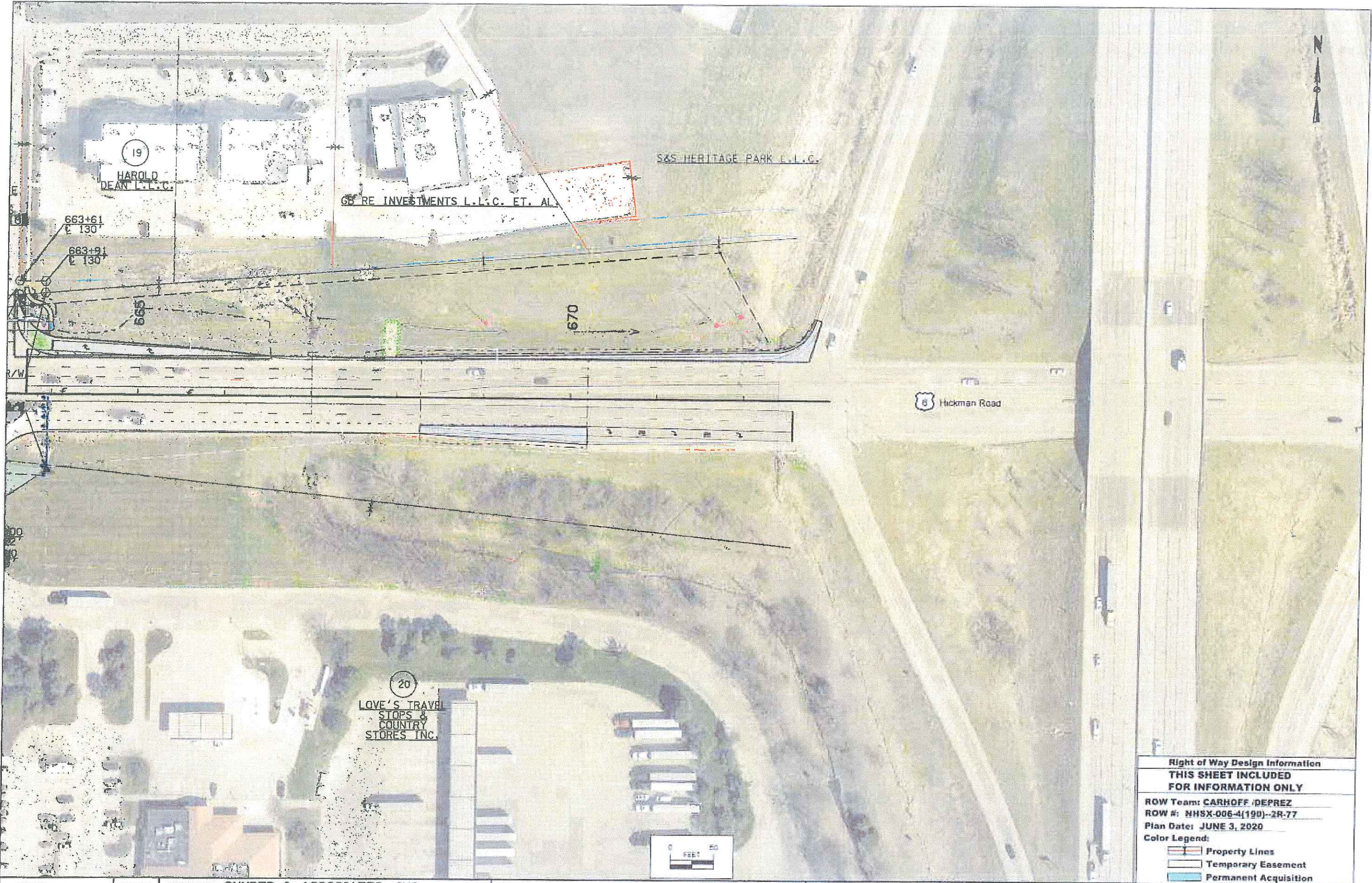
*Due to 3-5' grade cuts MEC will bore 9' below existing grade.
 *MEC will also be located underneath future sidewalk.
 *Once past STA:655+00 MEC crew can rise and maintain 6' below existing grade.




*Future PE will be located within new DOT Right of Way.

*Elec Easement outside of ROW.

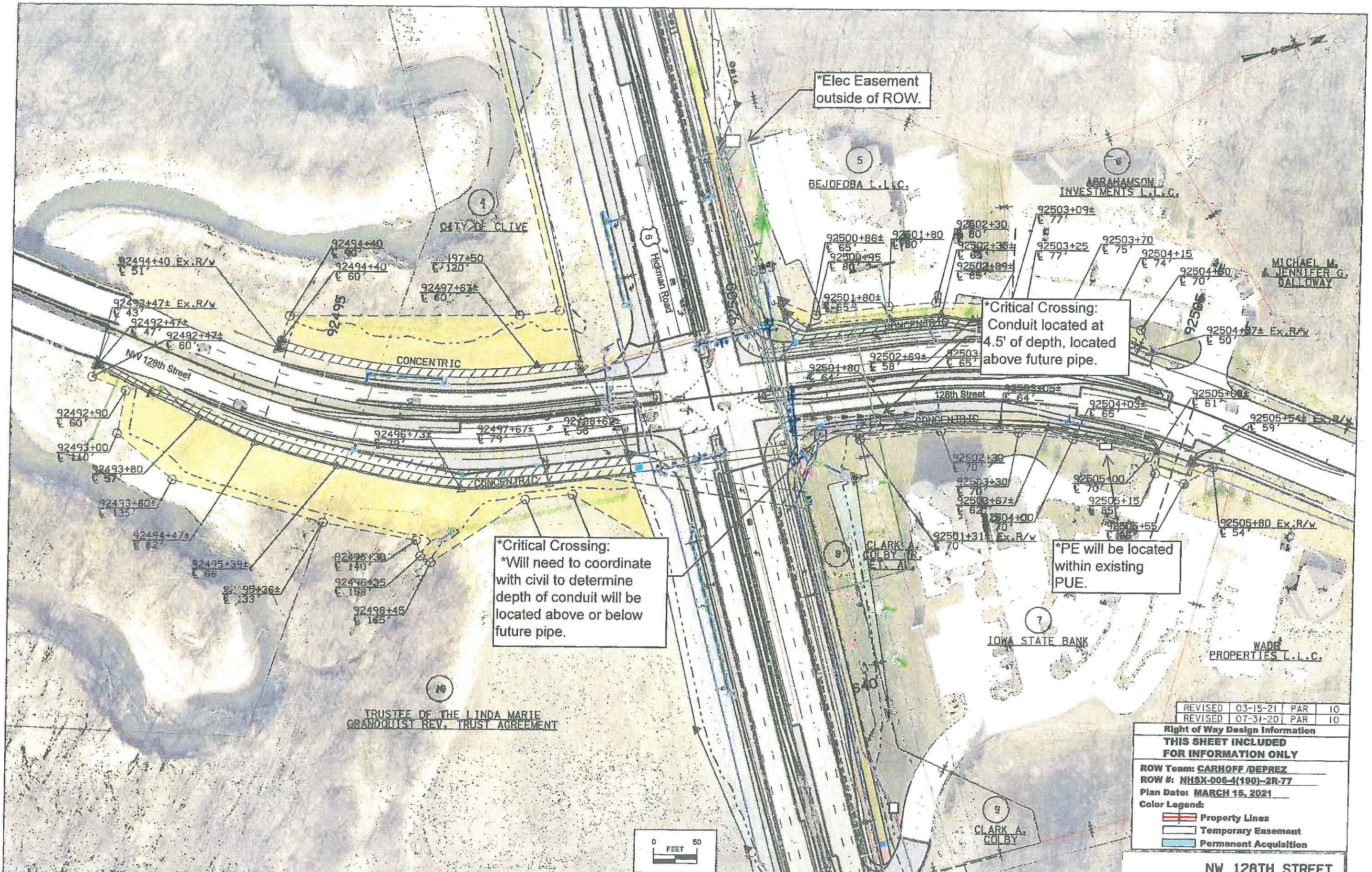
REVISED	10-15-20	PAR	15
Right of Way Design Information			
THIS SHEET INCLUDED FOR INFORMATION ONLY			
ROW Team: CARHOFF /DEPREZ			
ROW #: NHSX-006-4(190)-2R-77			
Plan Date: JUNE 3, 2020			
Color Legend:			
	Property Lines		Temporary Easement
	Permanent Acquisition		





Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: CARHOFF /DEPREZ	
ROW #: NHSX-006-4(190)--2R-77	
Plan Date: JUNE 3, 2020	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	NHSN-006-4(190)--2R-77	SHEET NUMBER	H.4
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*Elec Easement outside of ROW.

*Critical Crossing: Conduit located at 4.5' of depth, located above future pipe.

*Critical Crossing: *Will need to coordinate with civil to determine depth of conduit will be located above or below future pipe.

*PE will be located within existing PUE.

REVISED	03-15-21	PAR	10
REVISED	07-31-20	PAR	10

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

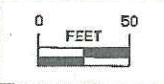
ROW Team: **CARHOFF /DEPREZ**

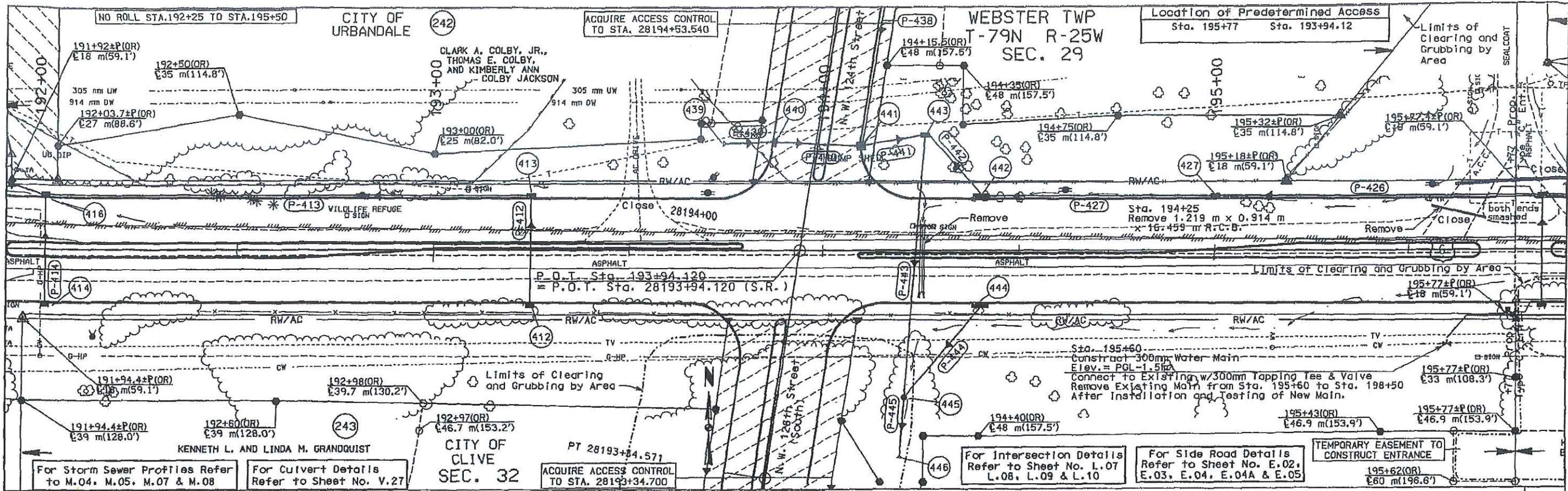
ROW #: **NHSX-006-4(190)-2R-77**

Plan Date: **MARCH 15, 2021**

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition





For Storm Sewer Profiles Refer to M.04, M.05, M.07 & M.08
 For Culvert Details Refer to Sheet No. V.27

For Intersection Details Refer to Sheet No. L.07, L.08, L.09 & L.10

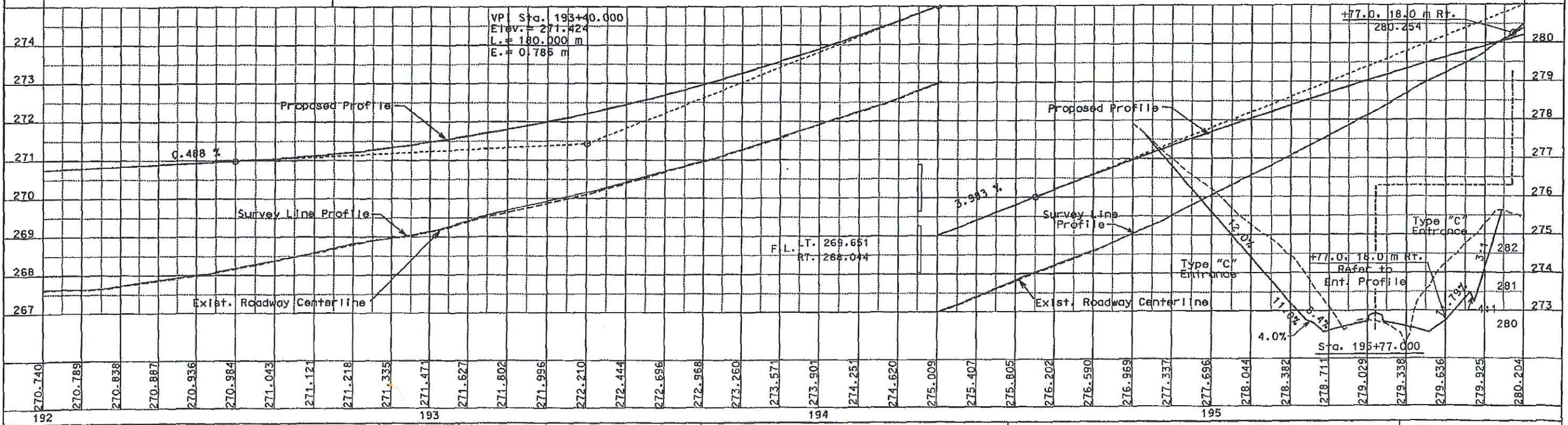
For Side Road Details Refer to Sheet No. E.02, E.03, E.04, E.04A & E.05

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

C = 2297 m³
 +24507 m³ Embankment in Place
 = 26804 m³

F+25% = 54050 m³

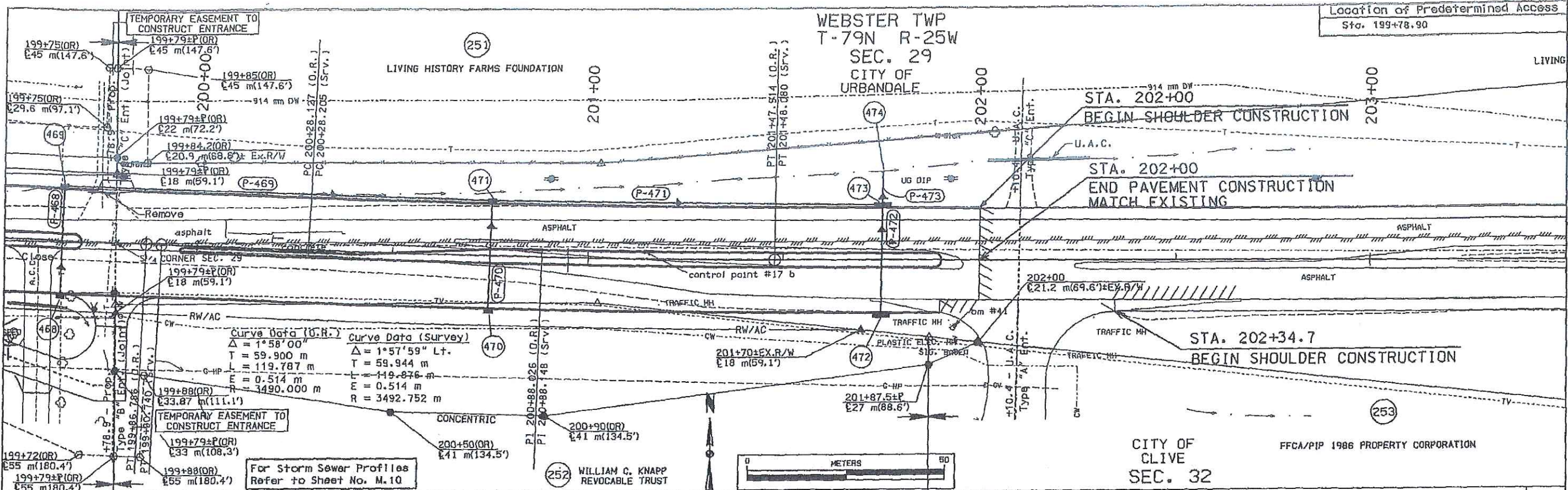
C = 54050 m³



D-1-A

Location of Predetermined Access
Sta. 199+78.90

WEBSTER TWP
T-79N R-25W
SEC. 29
CITY OF
URBANDALE



Curve Data (D.R.)	Curve Data (Survey)
$\Delta = 1^\circ 58' 00''$	$\Delta = 1^\circ 57' 59''$ Lt.
$T = 59.900$ m	$T = 59.944$ m
$L = 119.787$ m	$L = 119.876$ m
$E = 0.514$ m	$E = 0.514$ m
$R = 3490.000$ m	$R = 3492.752$ m

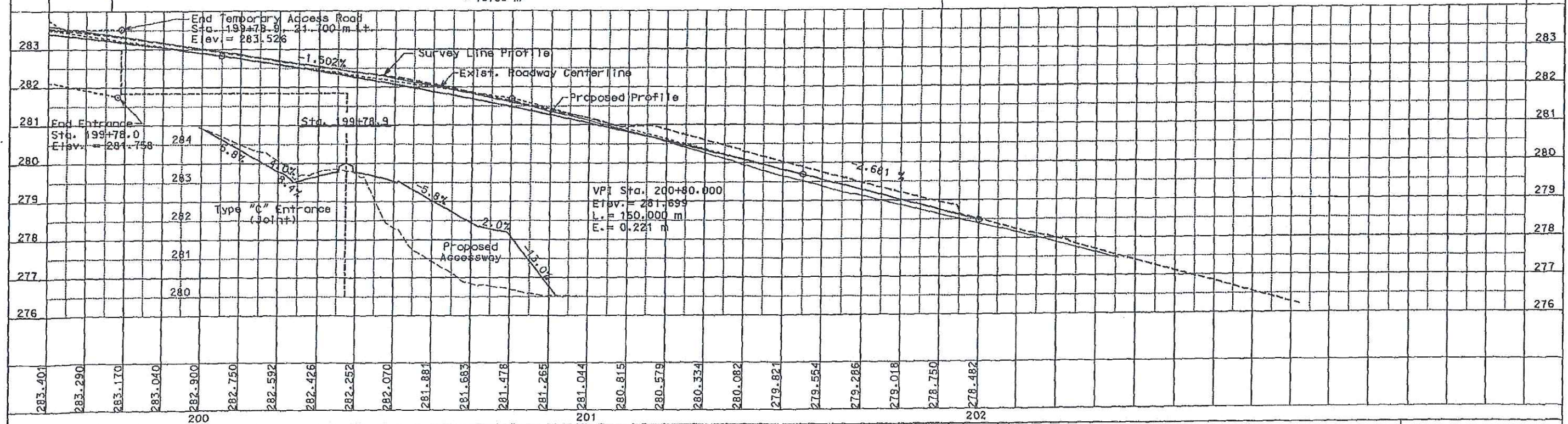
For Storm Sewer Profiles
Refer to Sheet No. M.10

$F + 25\% = 10109 \text{ m}^3$

$C = 5094 \text{ m}^3$
 $+ 482 \text{ m}^3$ from Sta. 198+52.485 to Sta. 199+75
 $+ 726 \text{ m}^3$ from Sta. 201+90 to Sta. 204+93.2
 $+ 3807 \text{ m}^3$ Embankment In Place
 $= 10109 \text{ m}^3$

$C = 1016 \text{ m}^3$

$F + 25\% = 290 \text{ m}^3$
 $+ 726 \text{ m}^3$ to Sta. 199+75 to Sta. 201+90
 $= 1016 \text{ m}^3$



FILE: 01\m\proj\119\2223.dwg DATE: 4-Nov-97 13:28

D-1-A

