



**ARNOLD TRACHT DDS &
DANIEL BRISKIE DDS, PC
ROCHESTER HILLS, MI**

1814 S. ROCHESTER RD.

**OUTSIDE / INSIDE PLANT CONSTRUCTION
FIBER OPTIC CABLE ROUTE
PROJECT #0012**

AS A CONDITION OF THE APPROVAL OF THIS APPLICATION, THE APPLICANT AGREES TO THE FOLLOWING CONDITIONS:

- The application agrees to secure, or cause to be secured, a permit from the Board prior to the commencement of construction or maintenance operations. If a contractor is to perform the construction or maintenance entailed in this application, the contractor shall secure the permit from the Board prior to the commencement of construction or maintenance operations and thereby assumes responsibility, along with the applicant, for any provisions of this application which apply to them.
- Any and all construction proposed under this application will meet all requirements of the Board, together with the Supplemental Specifications as set forth below.
- The applicant agrees to save harmless, indemnify, defend, and represent the Board and its employees against any and all claims for bodily injury or property damage, or any other claim arising out of or related to the creation, operation, use, or continuing existence of the structure or facility covered by the permit or for any other work done within county road right-of-way whether or not specifically authorized or in conformance with the description of activities for which the permit was issued. Applicant agrees and understands that the obligations set forth herein are binding upon their successors, transferors, assigns, sureties, and guarantors. The Applicant shall maintain insurance of a type and in an amount in conformance with the Board's established requirements and provide certificates of insurance in a type and amount which shall assure conformance with the Board's established requirements is currently in force for any and all facilities installed in the Board's right of way.
- The applicant agrees to surrender the permit herein applied for; surrender all rights hereunder; cease operations; and remove, alter, relocate at applicant's own expense, the facilities for which this permit is granted whenever ordered to do so by the Board because of the need for the 5.area covered by this permit for public uses or because of a default in the conditions of the permit. Upon failure to remove, alter, relocate or surrender the facilities pursuant to the order of the Board, the applicant agrees to reimburse the Board for its cost in doing same.
- Nothing in this application shall be construed to grant any rights whatsoever to any public utilities whatsoever except as to the consent herein specifically given, nor to otherwise impair any existing rights granted in accordance with the constitution or laws of this State.
- The obligation to construct, operate, use and/or maintain the facility to the satisfaction of the Board remains in force as long as the facility exists and is within the right-of-way under the jurisdiction of the Board. The applicant is obliged to repair any damage to the road and right of way which is a result of the facility and which occurs or appears after the permit licensee is released.
- The necessary construction zone signing for the protection of traffic shall be in accordance with the most current edition of the Michigan Manual of Uniform Traffic Control Devices, Part 6. All such devices shall be furnished, installed and maintained by the Permit Holder. All construction signage shall have black lettering on a reflective florescent orange background, unless otherwise specified. The Permit Holder shall provide any additional signs, barricades and/or lights, at the Permit Holder's expense, required to protect the general motoring public and the work zone when requested by the Road Commission.
- ADDITIONAL CONDITIONS:** As will be identified in approved permit description.

SUPPLEMENTAL SPECIFICATIONS

- EXCAVATION AND DISPOSAL OF EXCAVATED MATERIAL:** The contractor and/or the utility company shall provide and place the necessary sheeting, shoring and bracing required to prevent caving, loss or settlement of foundation material supporting the pavement, or any other highway installation such as sewers, culverts, etc. The contractor and/or utility company shall assume the full responsibility for this protection. Excavated material shall be stocked in such locations that it does not obstruct vision on the traveled portion of the highway and in such a manner that it will not interfere with the flow of traffic. Sod and topsoil shall be stocked separately from other excavated material. The applicant shall dispose of all surplus and unsuitable material outside of the limits of the right-of-way unless the permit provides for, and with approval of abutting property owners, disposal at approved locations with the right-of-way. In the latter case, the material shall be leveled and trimmed in a manner approved by the Road Commission for Oakland County.
- BACKFILLING AND COMPACTING BACKFILL:** All trenches, holes, pits, and other excavations shall be filled with approved excavated earth or with MDOT Class II granular material if so provided, placed in successive layers not more than 9 inches in depth, loose measure, and each layer shall be thoroughly compacted by tamping and all backfill compaction will be subject to check by the Controlled Density Method (minimum 95%). Restoration shall be such that it will provide a condition equal to or better than the original condition and in accordance with current Road Commission for Oakland County standards. Any excavation within the right of way outside traveled portion of road must be maintained until all settlement has occurred and must be restored and seeded or sodded as directed. The permit will not be released until the Road Commission is satisfied that no further settlement will occur.
- CROSSING ROADBED BY TUNNELING, DIRECTIONAL BORE, JACK CASING AND BORE:** When the pipe is installed by tunneling without cutting the existing pavement, the tunnel shall be adequately sheeted or shored to prevent the sides and top from collapsing or the pavement from settling or cracking. Directional bore shall be at least 4 diameters under the pavement or 48 inches, whichever is greater. When the pipe is installed by boring and jacking, the leading edge of the pipe must always precede the auger. The tunnel backfill shall be made by tamping a dry mix of lean concrete into place so as to completely fill any voids remaining around the installation. The concrete shall be composed of one part of Portland cement and 10 parts of sand-gravel by volume. Tunnel and boring pits shall be at least 10 feet from the edge of the pavement unless otherwise approved.
- CROSSING BY CUTTING GRAVEL ROADS:** All trenches are to be backfilled with approved material to within 12 inches of surface within the limits of the roadbed. Backfill methods will be as described in paragraph 2 above. All surplus excavated material will be disposed of as described in paragraph 1. The top 12 inches within the roadbed will be backfilled with processed road gravel (MDOT 22A or 23A). Trenches outside of the roadbed will be backfilled in accordance with paragraph 2 above.
- CROSSING BY CUTTING PAVEMENT AND TRENCHING:** When this method is approved by the Road Commission, the pavement shall be cut so that the opening is a minimum of 5 feet wide and at least 1 foot wider on each side than the trench. In no case shall an open cut result in a remaining slab width of less than 5 feet from patch to an existing joint. The cut shall be made by sawing to a full pavement depth. Cuts in concrete residential and commercial drives shall be as above except that the patch width shall be a minimum of 3 feet and the remaining slab from patch to existing joint a minimum of 3 feet. Backfill shall be made with MDOT Class II granular material. After the backfill has been placed by control density method and thoroughly compacted, the pavement shall be replaced with a temporary surface of approved hot-mixed bituminous material and later replaced with new pavement of the original type and quality by the Permit Licensee unless other provisions are included in the permit.
- DEPTH OF COVER MATERIAL:** Pipes shall be placed to a depth that will provide not less than 4 feet of cover between the top of roadway surface and top of the pipe.
- TREE TRIMMING OR REMOVAL:** All trees that may be affected by the proposed construction shall be shown on the plans. The plan must clearly indicate which trees are proposed to be removed, trimmed and/or tunneled. This work, if approved, must be done in accordance with current Board standards, including advance notification of abutting property owners. Wood Disposal License Agreement(s) will be required for any tree work
- DISPOSAL OF GROUND WATER:** Roadside drainage systems - open ditches, storm sewers, etc. - shall not be used for the disposal of water pumped from below the surface of the ground unless specifically allowed by the Road Commission. Details such as volume and frequency of discharge, erosion control, duration of use, NPDES permit and other pertinent information as may be required must be submitted with the application for such permission.
- Any proposed operation in the right of way not covered by the above specifications, submitted with this application, shall be done in accordance with any additional specifications deemed necessary by the Board or as outlined in the Permit Rules, Specifications and Guidelines.

NOTES:

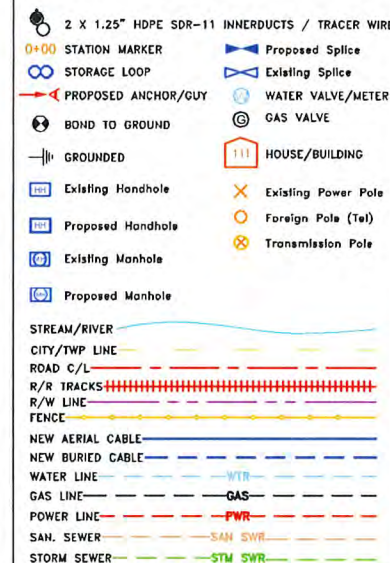
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COUNTY: OAKLAND TOWNSHIP: TROY/AVON CITY: ROCHESTER HILLS SECTION: 4/33/32/28/29/20/21/22/27/26/23 TOWN: 2N/3N RANGE: 11E



ARNOLD TRACHT DDS & DANIEL BRISKIE DDS, PC
 1814 S. ROCHESTER RD.
 ROCHESTER HILLS, MI

SYMBOLS



CAUTION

FOREIGN UTILITY LOCATION ARE APPROXIMATE. CONTACT THE LOCAL ONE CALL AGENCY 72 HOURS PRIOR TO CONSTRUCTION FOR EXACT UTILITY LOCATIONS AT:

MISS DIG
 1-800-482-7171



REVISIONS

REV. #	DESCRIPTION	BY	DATE

CABLE AND INNERDUCT DESCRIPTION

CABLE FIBER COUNT: 48 ct. FOC
 INNERDUCT: PL. (2) 1.25" SDR-11 HDPE W/TRACER WIRE

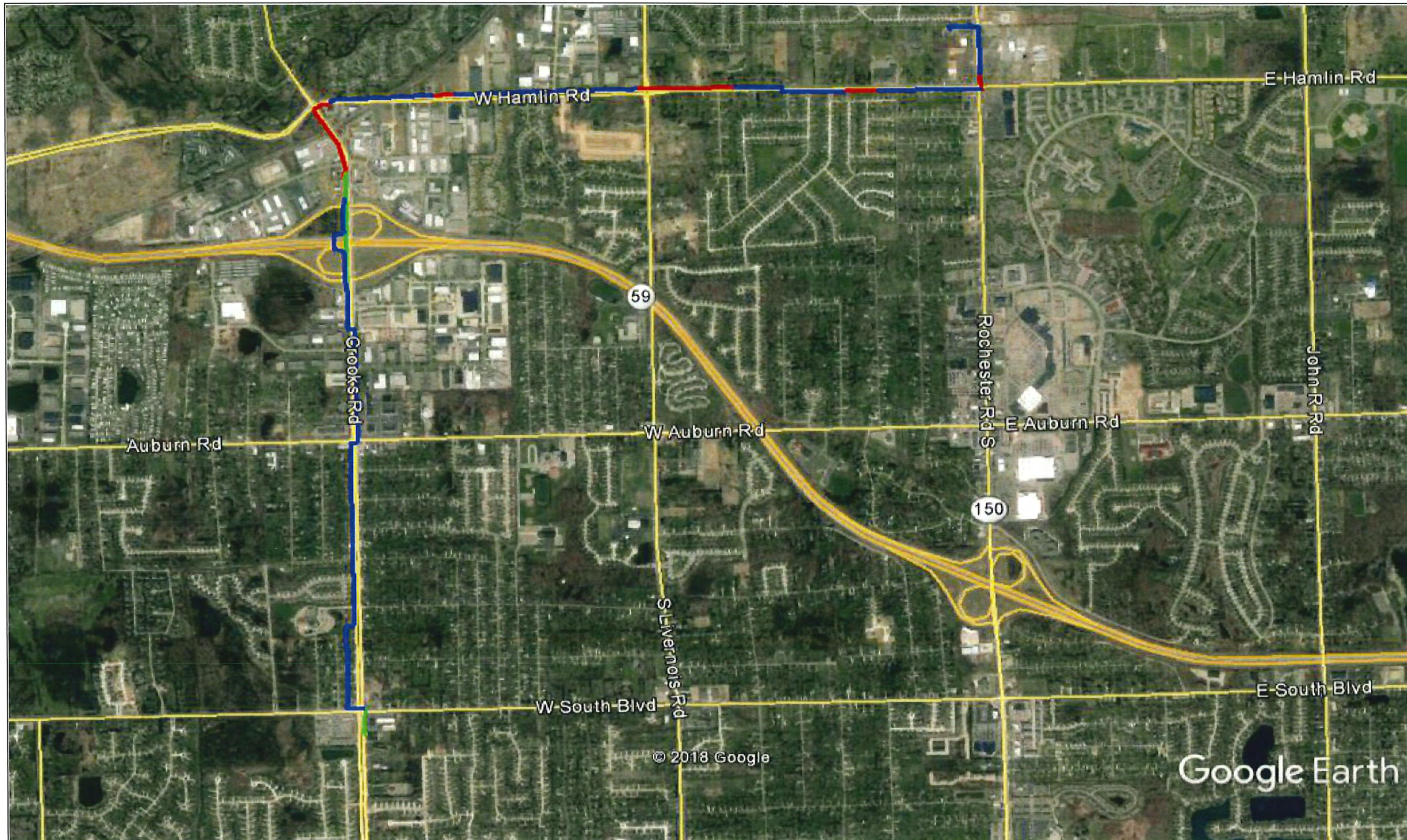
DRAWN BY : RAMTACH DATE: 07/05/18

AS-BUILTS BY : DATE:

ENGINEERED BY: RA DRAWING SCALE: NONE

JOB NUMBER: 0012

DRAWING NUMBER : GENERAL NOTES



ARNOLD TRACHT DDS & DANIEL BRISKIE DDS, PC
1814 S. ROCHESTER RD.
ROCHESTER HILLS, MI

SYMBOLS

- 2 X 1.25" HDPE SDR-11 INNERDUCTS / TRACER WIRE
- 0+00 STATION MARKER
- STORAGE LOOP
- PROPOSED ANCHOR/GUY
- BOND TO GROUND
- GROUNDING
- Existing Handhole
- Proposed Handhole
- Existing Manhole
- Proposed Manhole
- Proposed Splice
- Existing Splice
- WATER VALVE/METER
- GAS VALVE
- HOUSE/BUILDING
- Existing Power Pole
- Foreign Pole (Tel)
- Transmission Pole
- STREAM/RIVER
- CITY/TWP LINE
- ROAD C/L
- R/R TRACKS
- R/W LINE
- FENCE
- NEW AERIAL CABLE
- NEW BURIED CABLE
- WATER LINE
- GAS LINE
- POWER LINE
- SAN. SEWER
- STORM SEWER

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REVISIONS

REV. #	DESCRIPTION	BY	DATE
		XXX	XX/XX/XX

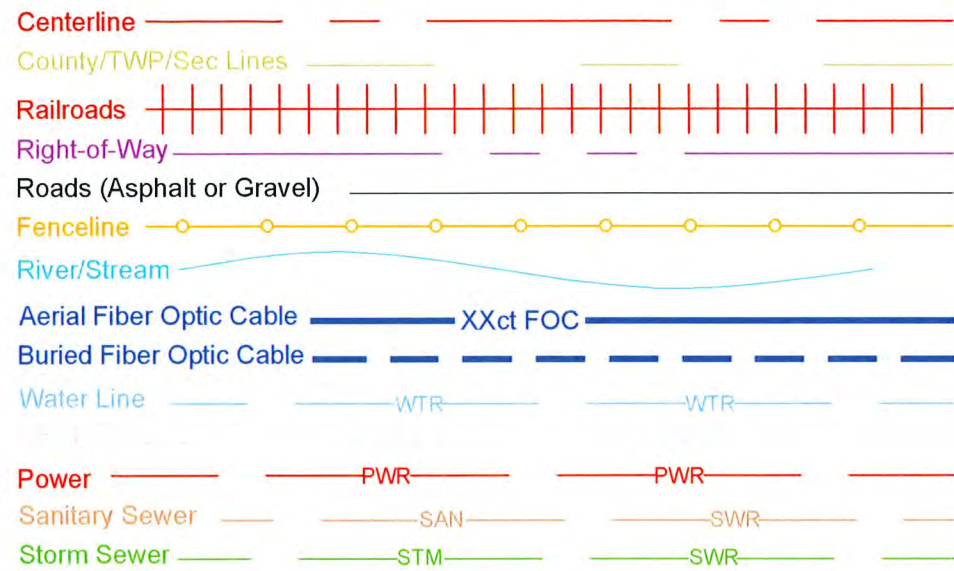
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DRAWN BY :	RAMT#CH	DATE:	07/05/18
AS-BUILTS BY :		DATE:	
ENGINEERED BY: RA		DRAWING SCALE: NONE	
JOB NUMBER:	0012		
DRAWING NUMBER :	KEYMAP		

NOTES:

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WALL MOUNT TERMINATION	
B-BOARD:	YES/NO
BOARD SIZE:	#
LOCATION:	XXX
PANEL TYPE:	XXX
PART #	XXX
PNL LENGTH	19" or 23"
PNL SIZE:	1U, 2U, ect.
PNL CAP:	12ct, 48ct, ect.
# OF TERM:	#
TERM STYLE:	Unicam/Plat tail
CONN STYLE:	SC or ST
TERM PORTS TO:	#-#
PICS:	#
EOC:	#

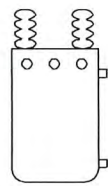
RACK MOUNT TERMINATION	
RR#:	#
LGX PANEL#	#
PANEL TYPE:	XXX
PART #	XXX
PNL LENGTH:	19" or 23"
PNL SIZE:	1U, 2U, ect.
PNL CAP:	12ct, 48ct, ect.
# OF TERM:	#
TERM STYLE:	Unicam/Plat tail
CONN STYLE:	SC or ST
TERM PORTS TO:	#-#
PICS:	#
EOC:	#

TRANSITION SPLICE	
TYPE:	Wall or Capsule
LOC:	HH, P-Box, etc.
#FOC:	
#FOC:	

Bridge



Transformer Profile



Street Light Profile



Street Light



Duct Diagram

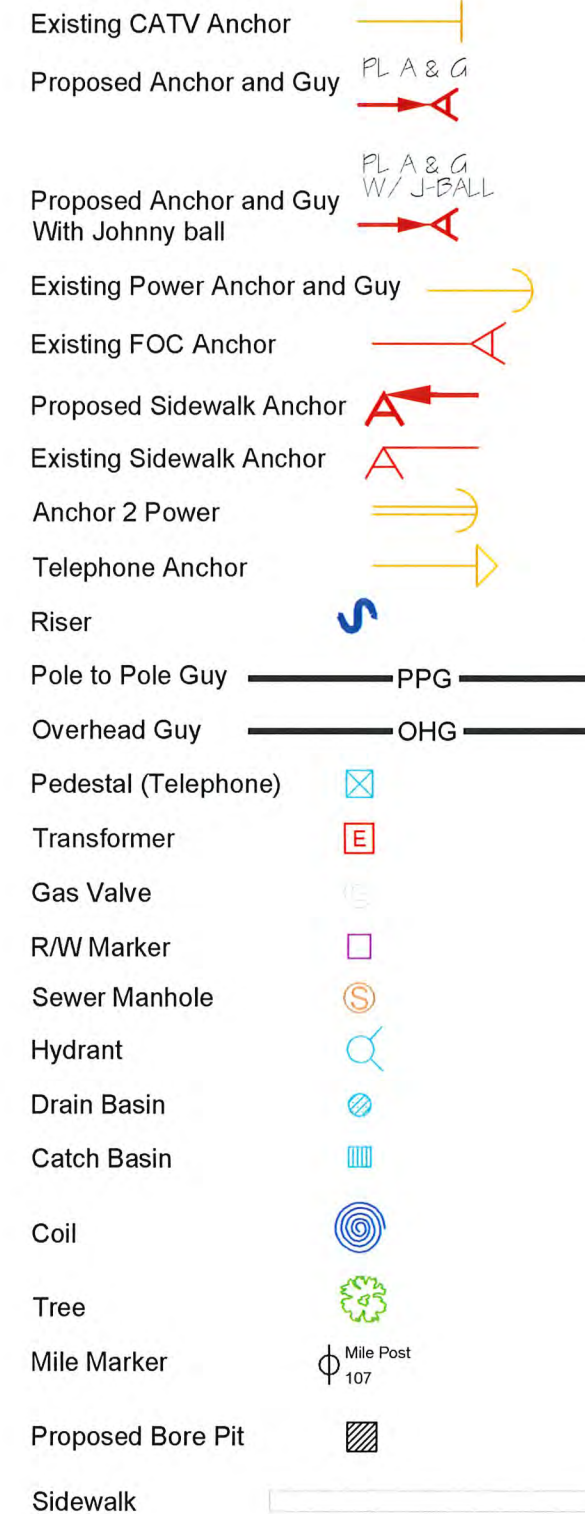
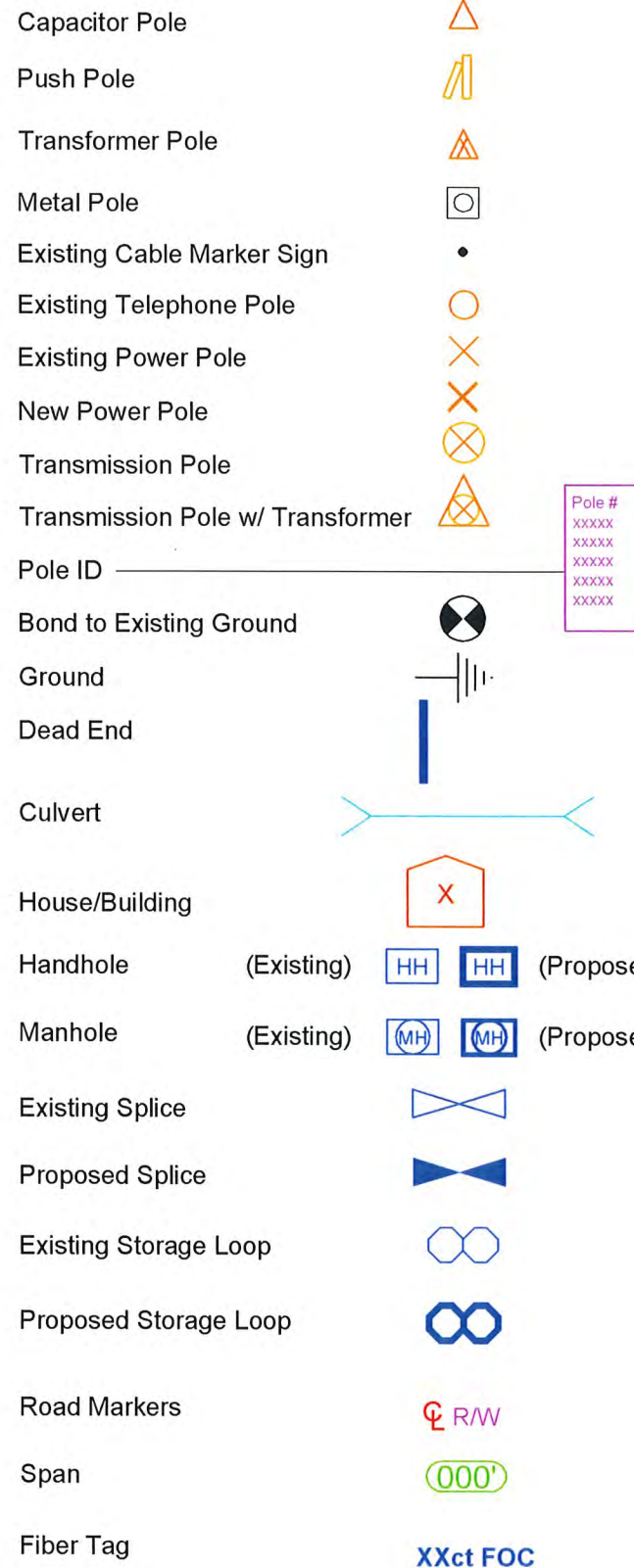


PLACE (2) 1.25" HDPE INNERDUCTS WITH TRACER WIRE VIA DIRECTIONAL BORE. MINIMUM DEPTH OF 48"

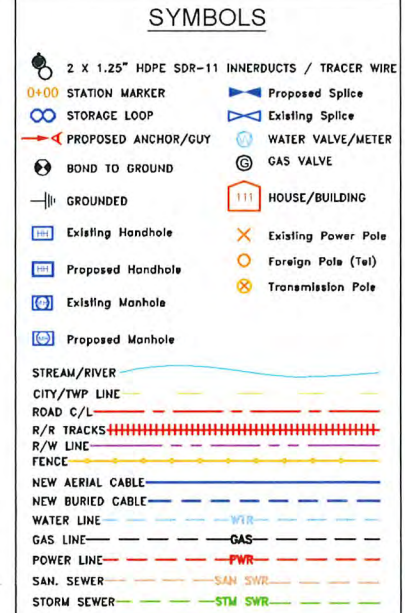
Section 2



Section 4



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1814 S. ROCHESTER RD.
ROCHESTER HILLS, MI



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REVISIONS			
REV. #	DESCRIPTION	BY	DATE
1		XXX	XX/XX/XX

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DRAWN BY :	RAMTACH	DATE:	07/05/18
AS-BUILTS BY :		DATE:	
ENGINEERED BY: RA		DRAWING SCALE: NONE	
JOB NUMBER:	0012		

SYMBOLS

- 2 X 1.25" HDPE SDR-11 INNERDUCTS / TRACER WIRE
- 0+00 STATION MARKER
- STORAGE LOOP
- PROPOSED ANCHOR/GUY
- BOND TO GROUND
- GROUNDED
- Existing Handhole
- Proposed Handhole
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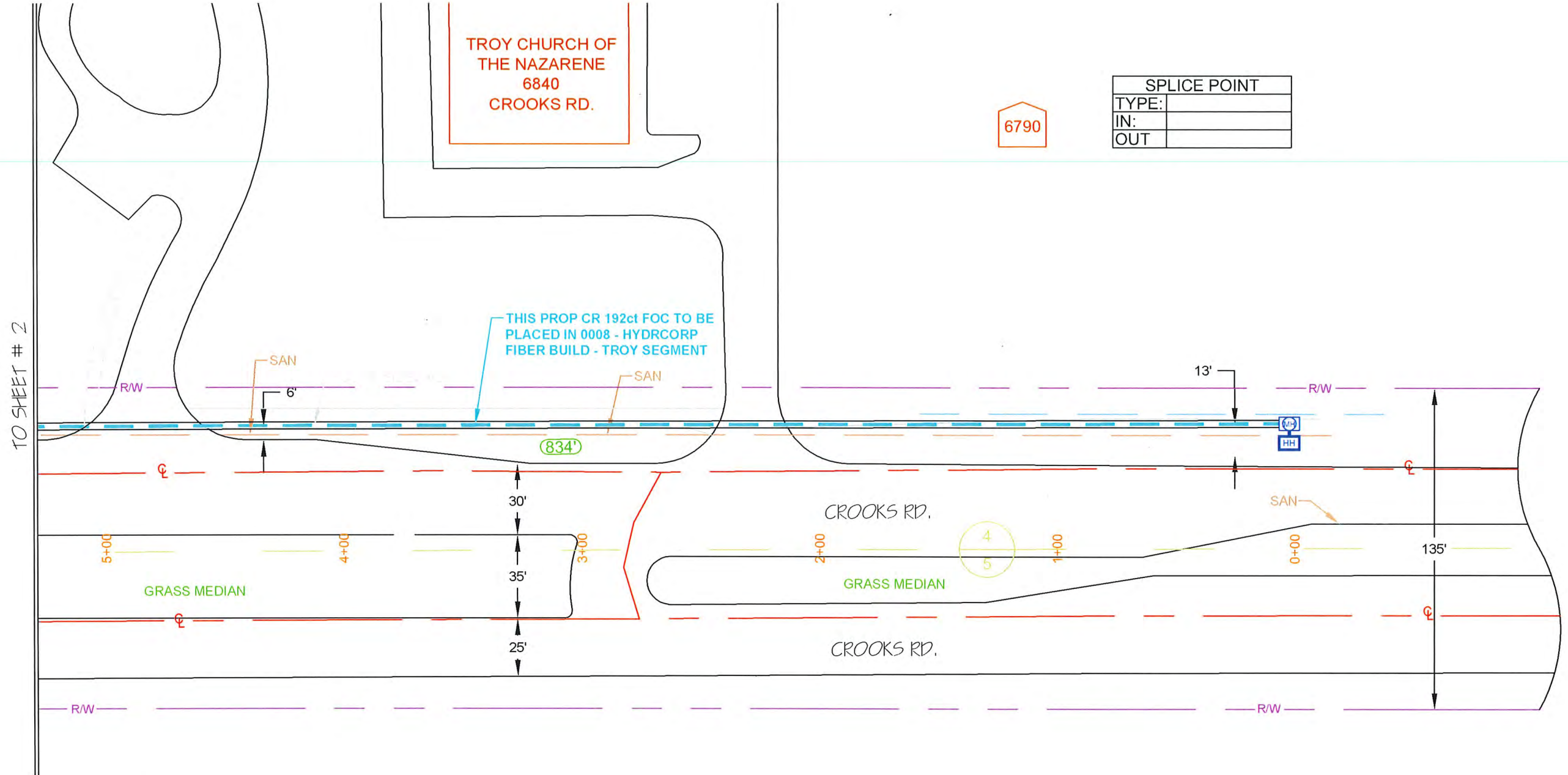
DRAWN BY: RAMWCH	DATE: 07/05/18
AS-BUILTS BY:	DATE:
ENGINEERED BY: RA	DRAWING SCALE: 1" = 50'
JOB NUMBER: 0012	
DRAWING NUMBER: 1 OF 38	

SPLICE POINT	
TYPE:	
IN:	
OUT:	

6790

TROY CHURCH OF THE NAZARENE
6840 CROOKS RD.

THIS PROP CR 192ct FOC TO BE PLACED IN 0008 - HYDRICORP FIBER BUILD - TROY SEGMENT

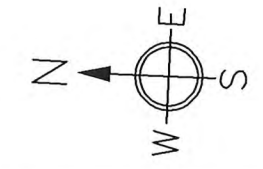


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72 HRS. PRIOR TO EXCAVATION



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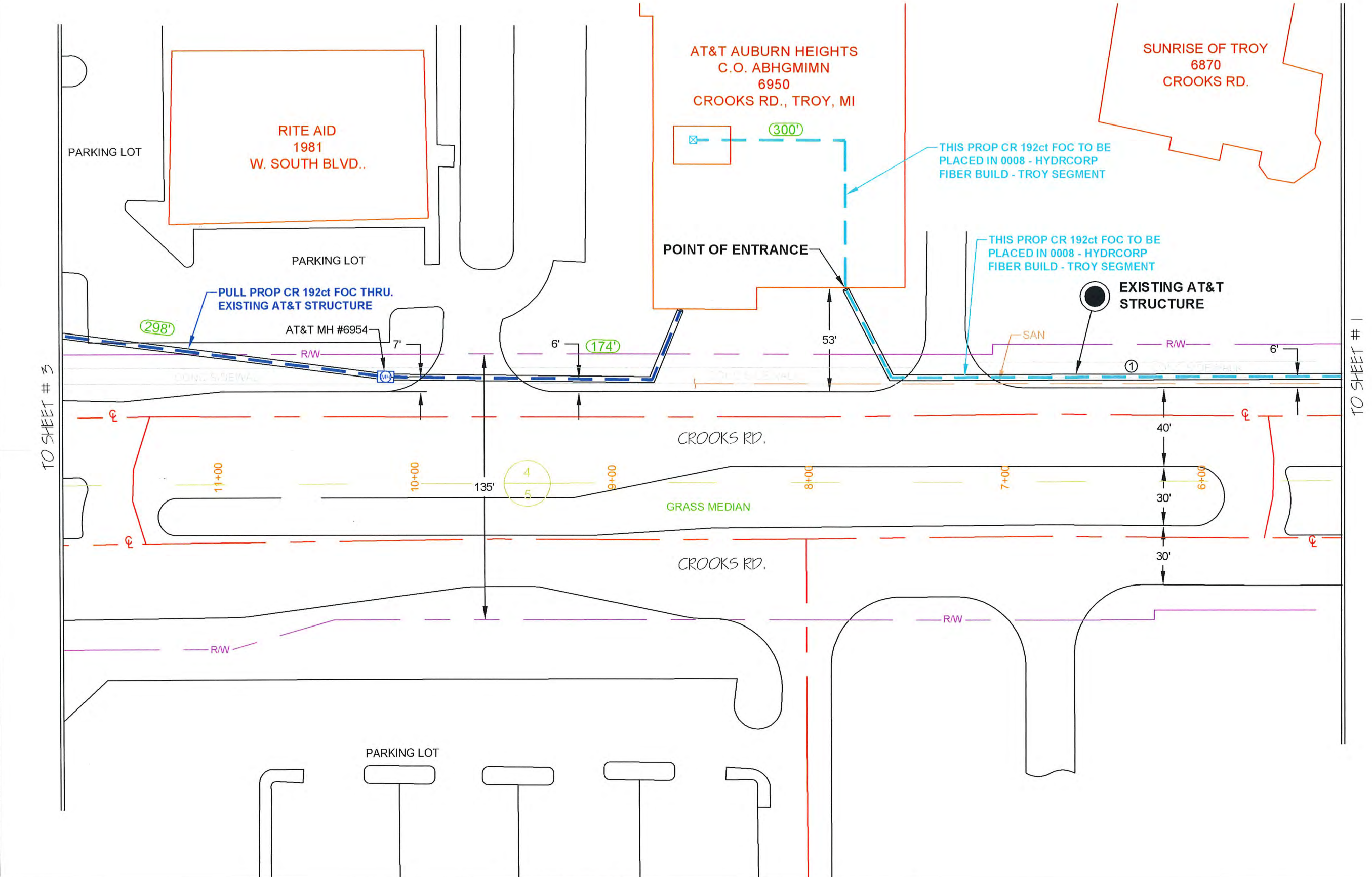
REVISIONS

REV. #	DESCRIPTION	BY	DATE

CABLE AND INNERDUCT DESCRIPTION
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INNERDUCT: PL. (2) 1.25" SDR-11 HDPE W/TRACER WIRE

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ROCHESTER HILLS, MI

DRAWN BY: RAMTACH	DATE: 07/05/18
AS-BUILTS BY:	DATE:
ENGINEERED BY: RA	DRAWING SCALE: 1" = 50'
JOB NUMBER: 0012	
DRAWING NUMBER: 2 OF 38	

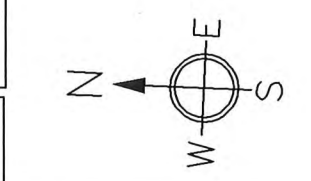


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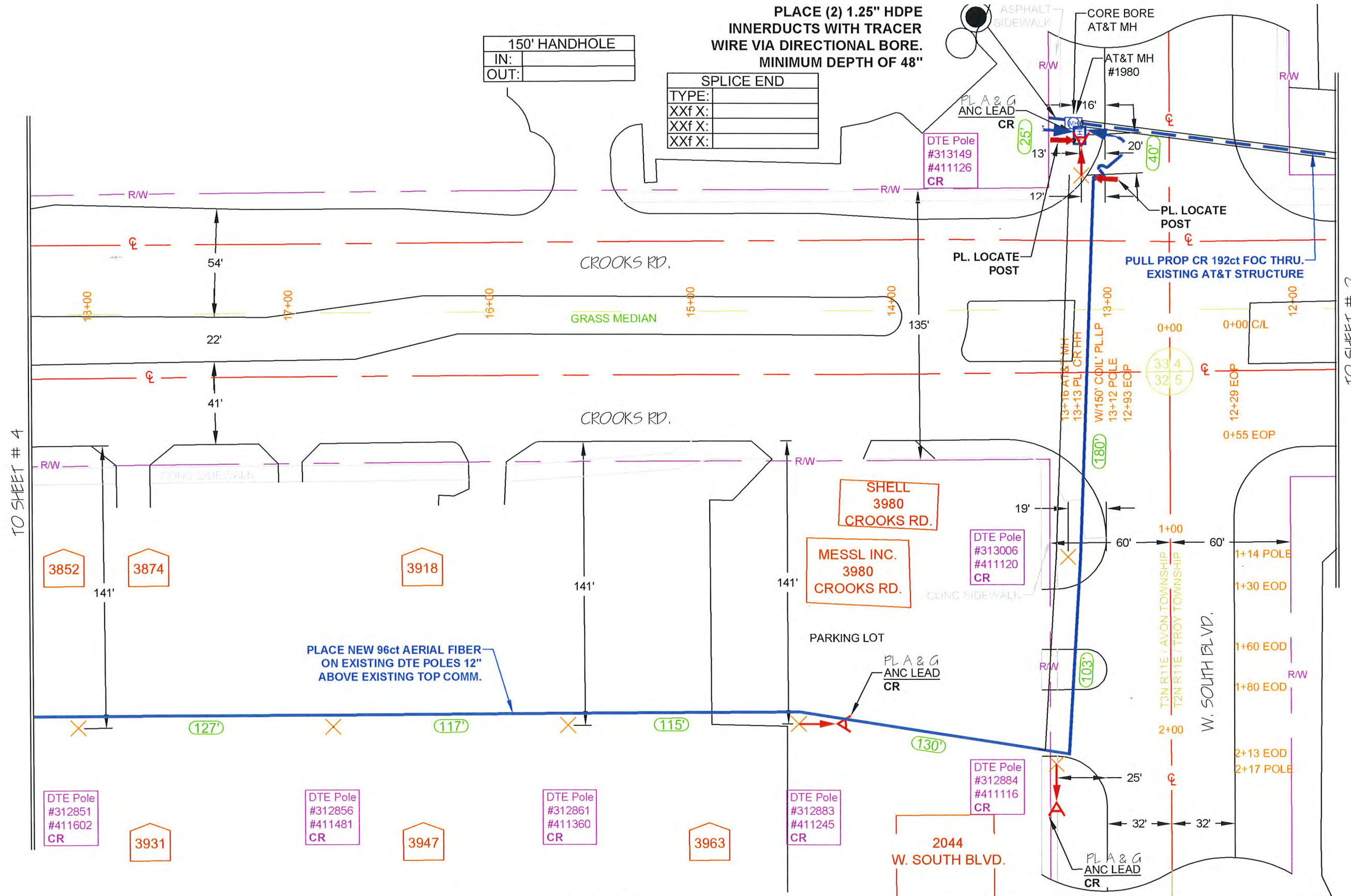
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ROCHESTER HILLS, MI

DRAWN BY: RAMTACH	DATE: 07/05/18
AS-BUILTS BY:	DATE:
ENGINEERED BY: RA	DRAWING SCALE: 1" = 50'
JOB NUMBER:	0012
DRAWING NUMBER:	3 OF 38

PLACE (2) 1.25" HDPE INNERDUCTS WITH TRACER WIRE VIA DIRECTIONAL BORE. MINIMUM DEPTH OF 48"

150' HANDHOLE	
IN:	
OUT:	

SPLICE END	
TYPE:	
XXf X:	
XXf X:	
XXf X:	



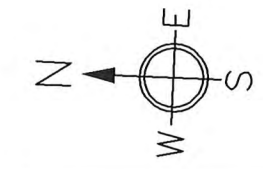
NOTES:

PLACE NEW 96ct AERIAL FIBER ON EXISTING DTE POLES 12" ABOVE EXISTING TOP COMM.

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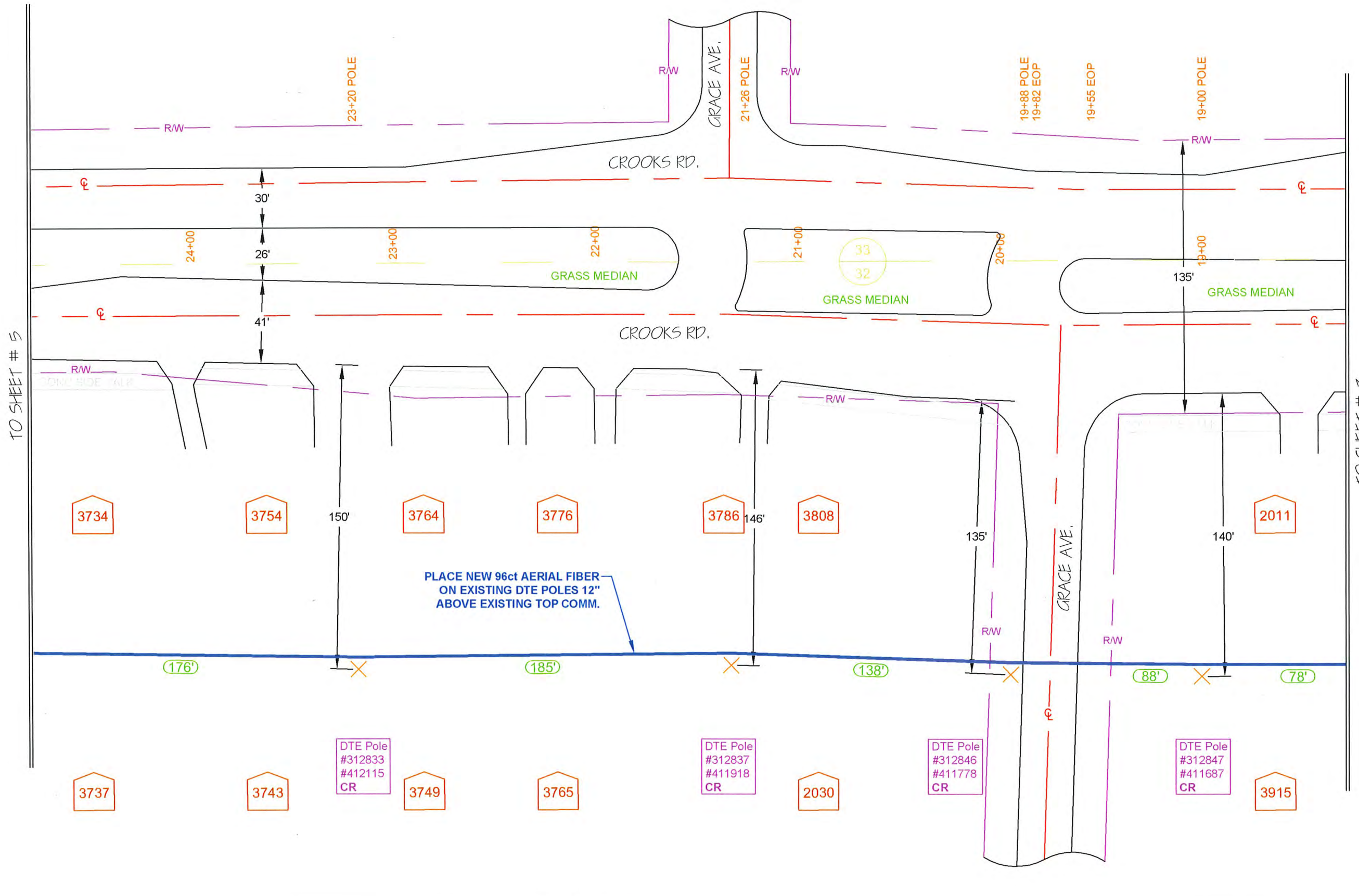
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INNERDUCT:

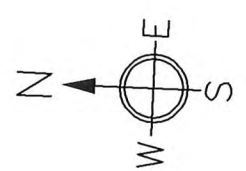
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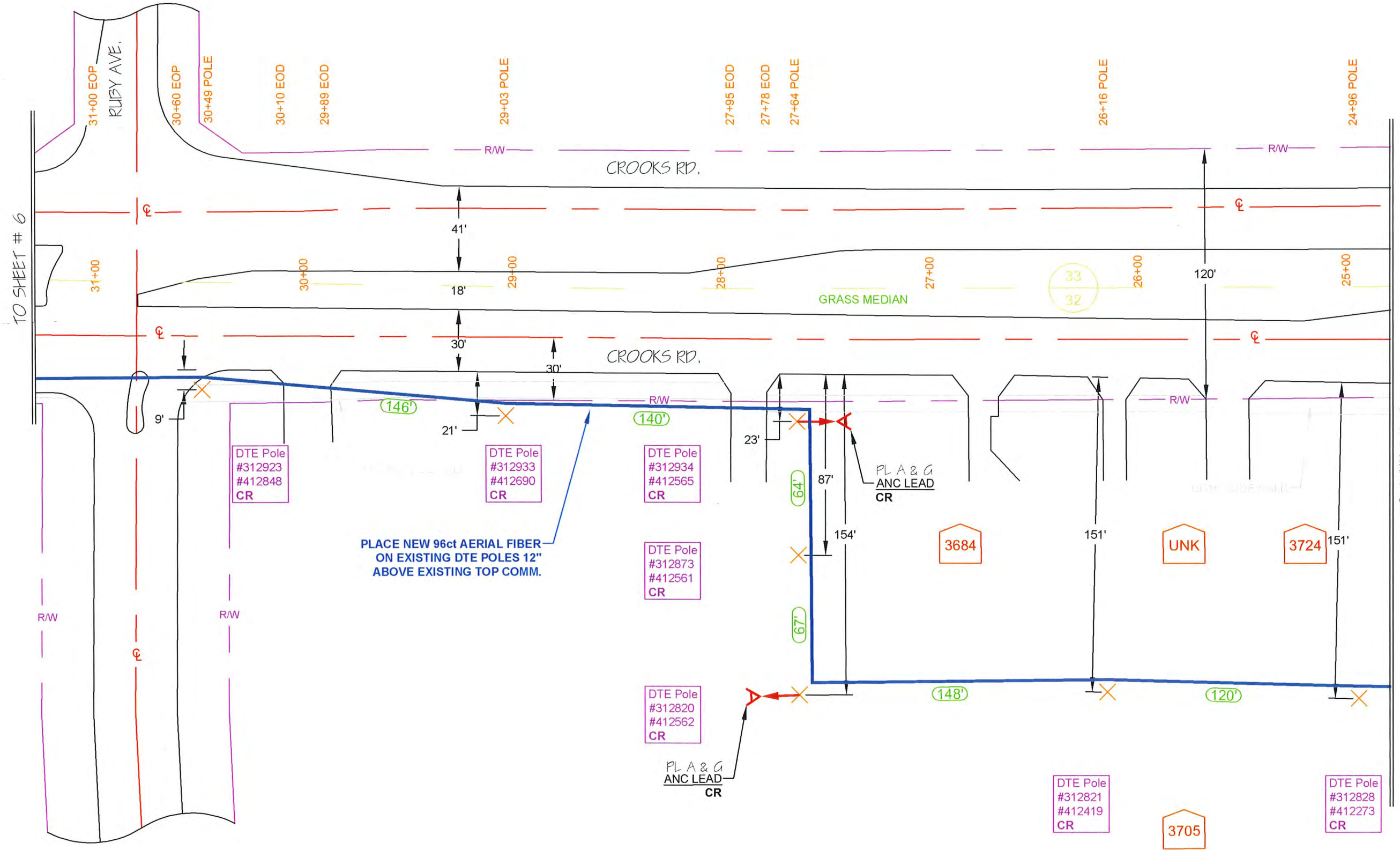
REVISIONS

REV. #	DESCRIPTION	BY	DATE
#		XXX	XX/XX/XX

CABLE AND INNERDUCT DESCRIPTION
CABLE FIBER COUNT: 96 ct. FOC
INNERDUCT:

ARNOLD TRACHT DDS & DANIEL BRISKIE DDS, PC
1814 S. ROCHESTER RD.
ROCHESTER HILLS, MI

DRAWN BY : RAMTACH	DATE: 07/05/18
AS-BUILTS BY :	DATE:
ENGINEERED BY: RA	DRAWING SCALE: 1" = 50'
JOB NUMBER: 0012	
DRAWING NUMBER : 5 OF 38	

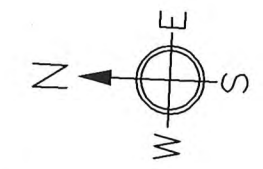


NOTES:

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PLEASE CONTACT: MISSDIG 1-800-482-7171 72 HRS. PRIOR TO EXCAVATION



SYMBOLS

- 2 X 1.25" HDPE SDR-11 INNERDUCTS / TRACER WIRE
- 0+00 STATION MARKER
- STORAGE LOOP
- PROPOSED ANCHOR/GUY
- BOND TO GROUND
- GROUNDING
- Existing Handhole
- Proposed Handhole
- Existing Manhole
- Proposed Manhole
- Proposed Splice
- Existing Splice
- WATER VALVE/METER
- GAS VALVE
- HOUSE/BUILDING
- Existing Power Pole
- Foreign Pole (Tel)
- Transmission Pole
- STREAM/RIVER
- CITY/TWP LINE
- ROAD C/L
- R/R TRACKS
- R/W LINE
- FENCE
- NEW AERIAL CABLE
- NEW BURIED CABLE
- WATER LINE
- GAS LINE
- POWER LINE
- SAN. SEWER
- STORM SEWER

CAUTION
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MISS DIG
1-800-482-7171

REVISIONS

REV. #	DESCRIPTION	BY	DATE
#		xxx	xx/xx/xx

CABLE AND INNERDUCT DESCRIPTION

CABLE FIBER COUNT: 96 ct. FOC

INNERDUCT:

ARNOLD TRACHT DDS & DANIEL BRISKIE DDS, PC
1814 S. ROCHESTER RD.
ROCHESTER HILLS, MI

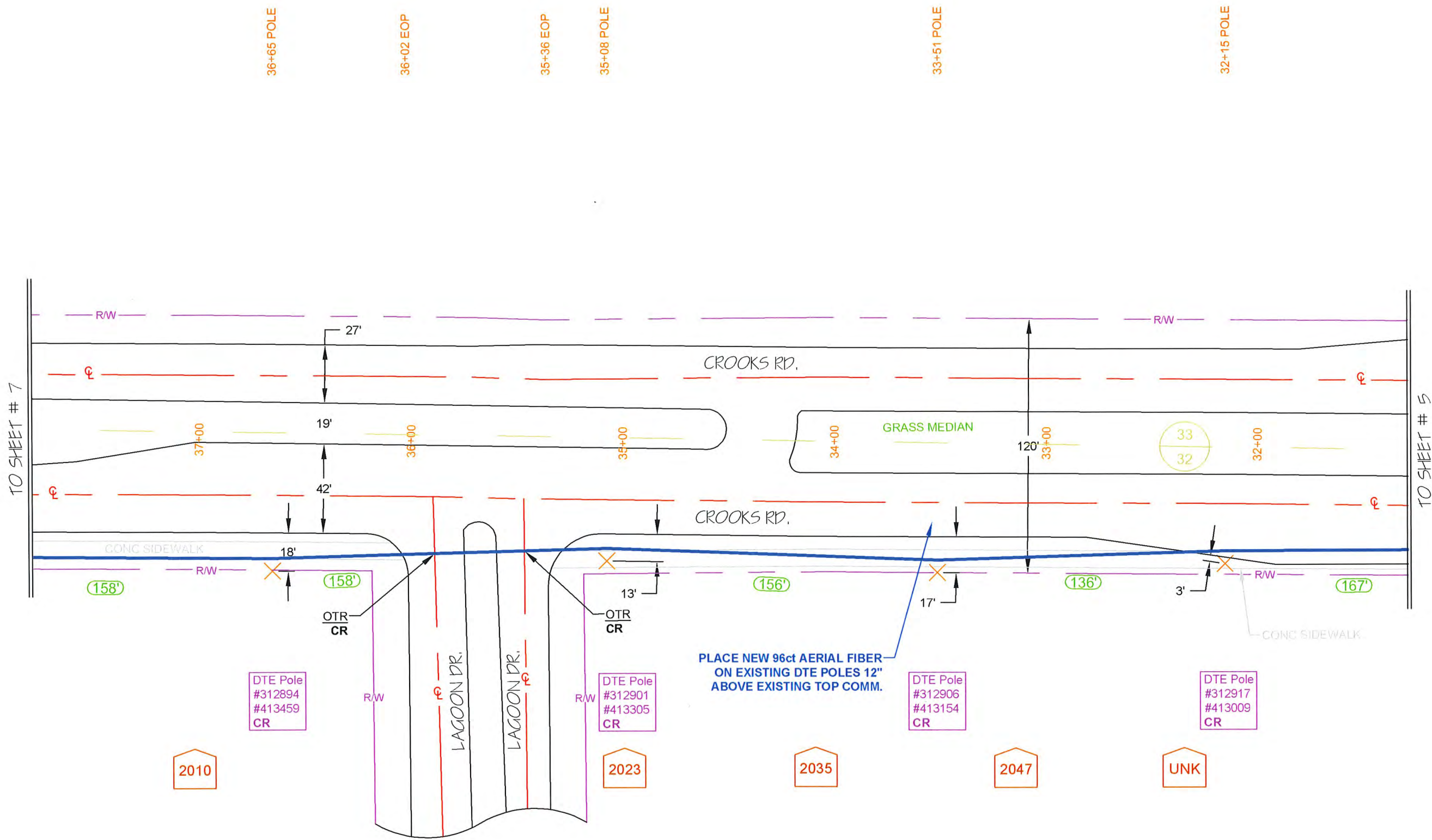
DRAWN BY : RAITWCH DATE: 07/05/18

AS-BUILTS BY : DATE:

ENGINEERED BY: RA DRAWING SCALE: 1" = 50'

JOB NUMBER: 0012

DRAWING NUMBER : 6 OF 38



PLACE NEW 96ct AERIAL FIBER ON EXISTING DTE POLES 12" ABOVE EXISTING TOP COMM.

DTE Pole
#312894
#413459
CR

DTE Pole
#312901
#413305
CR

DTE Pole
#312906
#413154
CR

DTE Pole
#312917
#413009
CR

2010

2023

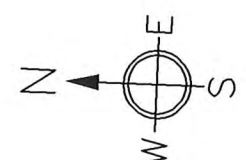
2035

2047

UNK

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SYMBOLS

- 2 X 1.25" HDPE SDR-11 INNERDUCT / TRACER WIRE
 - 0+00 STATION MARKER
 - STORAGE LOOP
 - PROPOSED ANCHOR/GUY
 - BOND TO GROUND
 - GROUNDING
 - Existing Handhole
 - Proposed Handhole
 - Existing Manhole
 - Proposed Manhole
 - Proposed Splice
 - Existing Splice
 - WATER VALVE/METER
 - GAS VALVE
 - HOUSE/BUILDING
 - Existing Power Pole
 - Foreign Pole (Tel)
 - Transmission Pole
- STREAM/RIVER
CITY/TWP LINE
ROAD C/L
R/R TRACKS
R/W LINE
FENCE
NEW AERIAL CABLE
NEW BURIED CABLE
WATER LINE
GAS LINE
POWER LINE
SAN. SEWER
STORM SEWER

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REVISIONS

REV. #	DESCRIPTION	BY	DATE

CABLE AND INNERDUCT DESCRIPTION

CABLE FIBER COUNT: 96 ct. FOC
INNERDUCT:

ARNOLD TRACHT DDS & DANIEL BRISKIE DDS, PC
1814 S. ROCHESTER RD.
ROCHESTER HILLS, MI

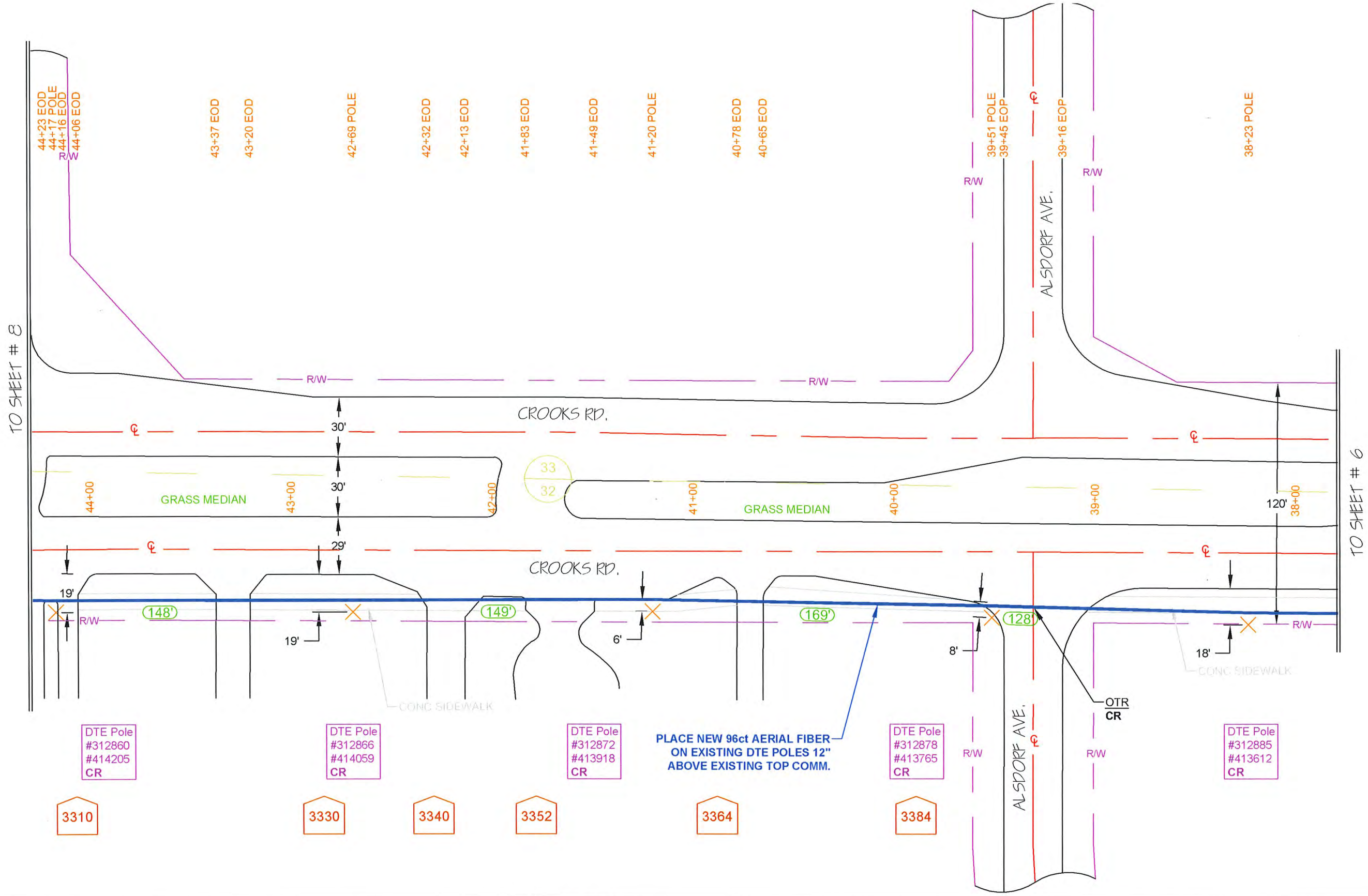
DRAWN BY : RAMTWH DATE: 07/05/18

AS-BUILTS BY : DATE:

ENGINEERED BY: RA DRAWING SCALE: 1" = 50'

JOB NUMBER: 0012

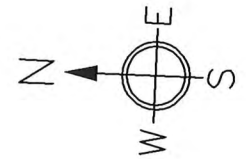
DRAWING NUMBER : 7 OF 38



PLACE NEW 96ct AERIAL FIBER ON EXISTING DTE POLES 12" ABOVE EXISTING TOP COMM.

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SYMBOLS

- 2 X 1.25" HDPE SDR-11 INNERDUCTS / TRACER WIRE
 - 0+00 STATION MARKER
 - STORAGE LOOP
 - PROPOSED ANCHOR/GUY
 - BOND TO GROUND
 - GROUNDED
 - Existing Handhole
 - Proposed Handhole
 - Existing Manhole
 - Proposed Manhole
 - Proposed Splice
 - Existing Splice
 - WATER VALVE/METER
 - GAS VALVE
 - HOUSE/BUILDING
 - Existing Power Pole
 - Foreign Pole (Tel)
 - Transmission Pole
- STREAM/RIVER
CITY/TWP LINE
ROAD C/L
R/R TRACKS
R/W LINE
FENCE
NEW AERIAL CABLE
NEW BURIED CABLE
WATER LINE
GAS LINE
POWER LINE
SAN. SEWER
STORM SEWER

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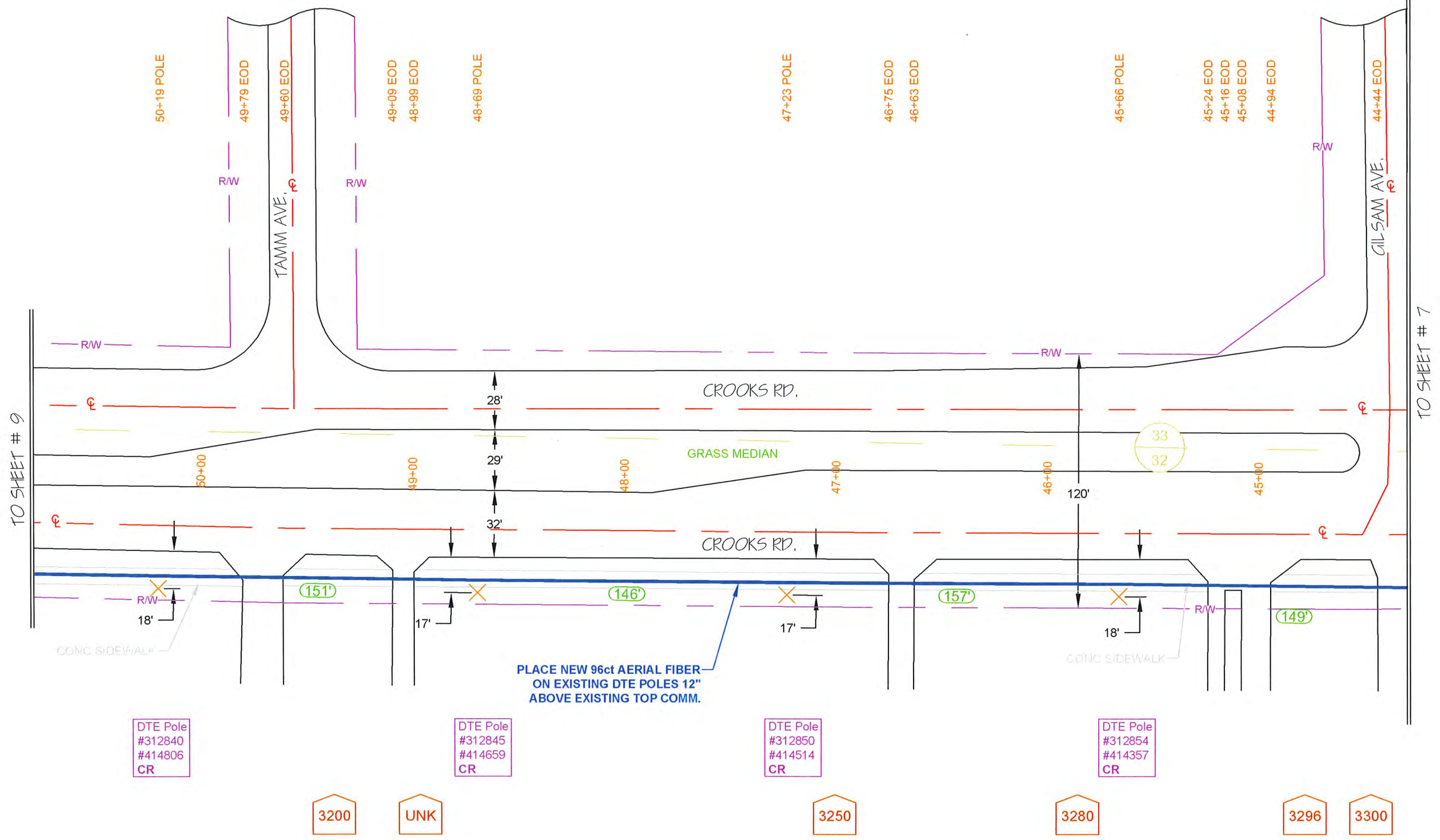
REVISIONS

REV. #	DESCRIPTION	BY	DATE
#		XXX	XX/XX/XX

CABLE AND INNERDUCT DESCRIPTION
CABLE FIBER COUNT: 96 ct. FOC
INNERDUCT:

ARNOLD TRACHT DDS & DANIEL BRISKIE DDS, PC
1814 S. ROCHESTER RD.
ROCHESTER HILLS, MI

DRAWN BY : RANTACH	DATE: 07/05/18
AS-BUILTS BY :	DATE:
ENGINEERED BY: RA	DRAWING SCALE: 1" = 50'
JOB NUMBER: 0012	
DRAWING NUMBER :	8 OF 38



DTE Pole
#312840
#414806
CR

DTE Pole
#312845
#414659
CR

DTE Pole
#312850
#414514
CR

DTE Pole
#312854
#414357
CR

3200

UNK

3250

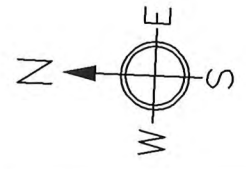
3280

3296

3300

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- Proposed Manhole
- Proposed Splice
- Existing Splice
- WATER VALVE/METER
- GAS VALVE
- HOUSE/BUILDING
- Existing Power Pole
- Foreign Pole (Tel)
- Transmission Pole
- STREAM/RIVER
- CITY/TWP LINE
- ROAD C/L
- R/R TRACKS
- R/W LINE
- FENCE
- NEW AERIAL CABLE
- NEW BURIED CABLE
- WATER LINE
- GAS LINE
- POWER LINE
- SAN. SEWER
- STORM SEWER

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REVISIONS

REV. #	DESCRIPTION	BY	DATE
		XXX	XX/XX/XX

CABLE AND INNERDUCT DESCRIPTION

CABLE FIBER COUNT: 96 ct. FOC
INNERDUCT:

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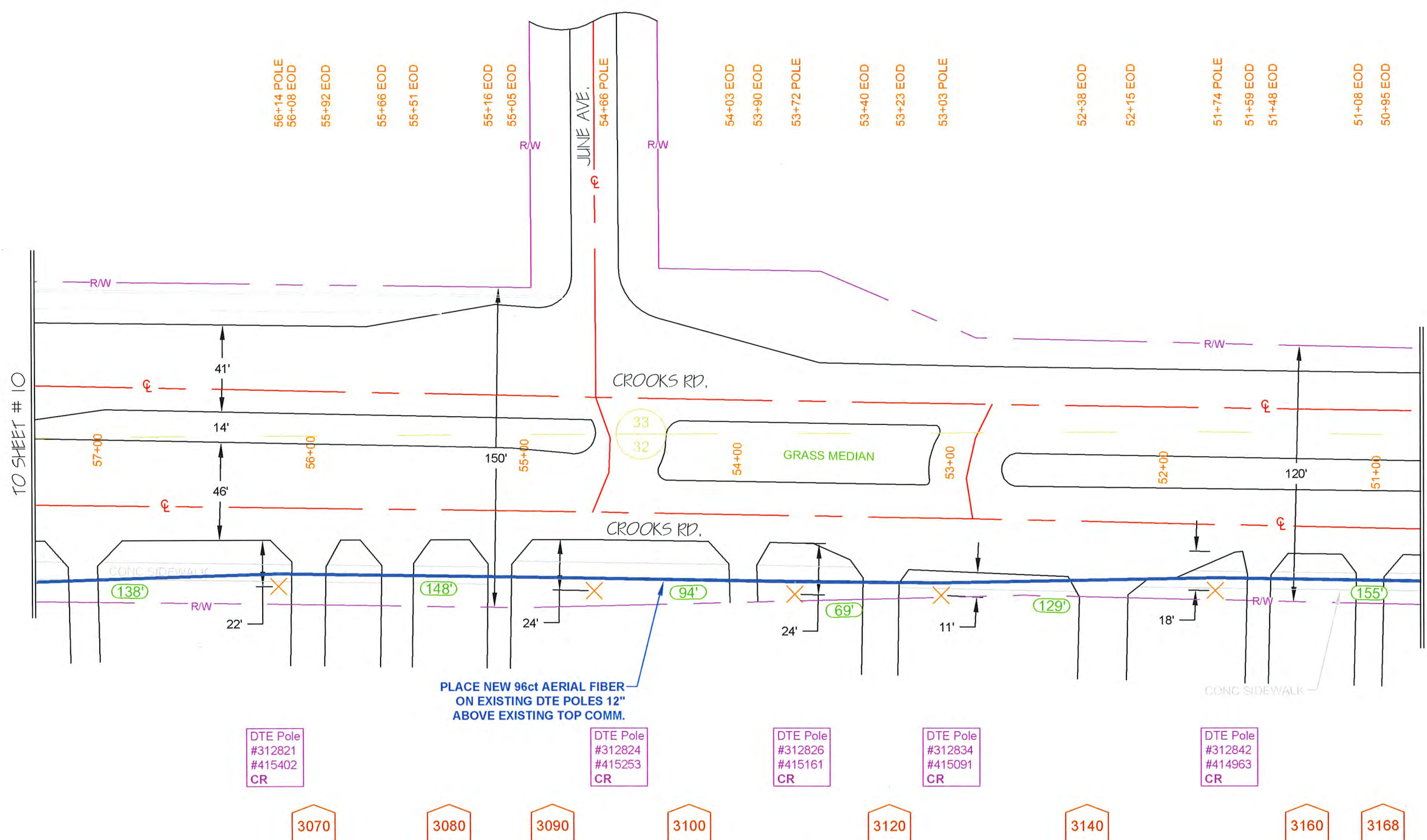
DRAWN BY : RANTACH DATE: 07/05/18

AS-BUILTS BY : DATE:

ENGINEERED BY: RA DRAWING SCALE: 1" = 50'

JOB NUMBER: 0012

DRAWING NUMBER : 9 OF 38



DTE Pole
#312821
#415402
CR

DTE Pole
#312824
#415253
CR

DTE Pole
#312826
#415161
CR

DTE Pole
#312834
#415091
CR

DTE Pole
#312842
#414963
CR

3070

3080

3090

3100

3120

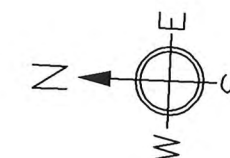
3140

3160

3168

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- 0+00 STATION MARKER
- STORAGE LOOP
- PROPOSED ANCHOR/GUY
- BOND TO GROUND
- GROUNDED
- Existing Handhole
- Proposed Handhole
- Existing Manhole
- Proposed Manhole
- Proposed Splice
- Existing Splice
- WATER VALVE/METER
- GAS VALVE
- HOUSE/BUILDING
- Existing Power Pole
- Foreign Pole (Tel)
- Transmission Pole
- STREAM/RIVER
- CITY/TWP LINE
- ROAD C/L
- R/R TRACKS
- R/W LINE
- FENCE
- NEW AERIAL CABLE
- NEW BURIED CABLE
- WTR
- GAS
- POWER LINE
- SAN. SEWER
- STIM SWR

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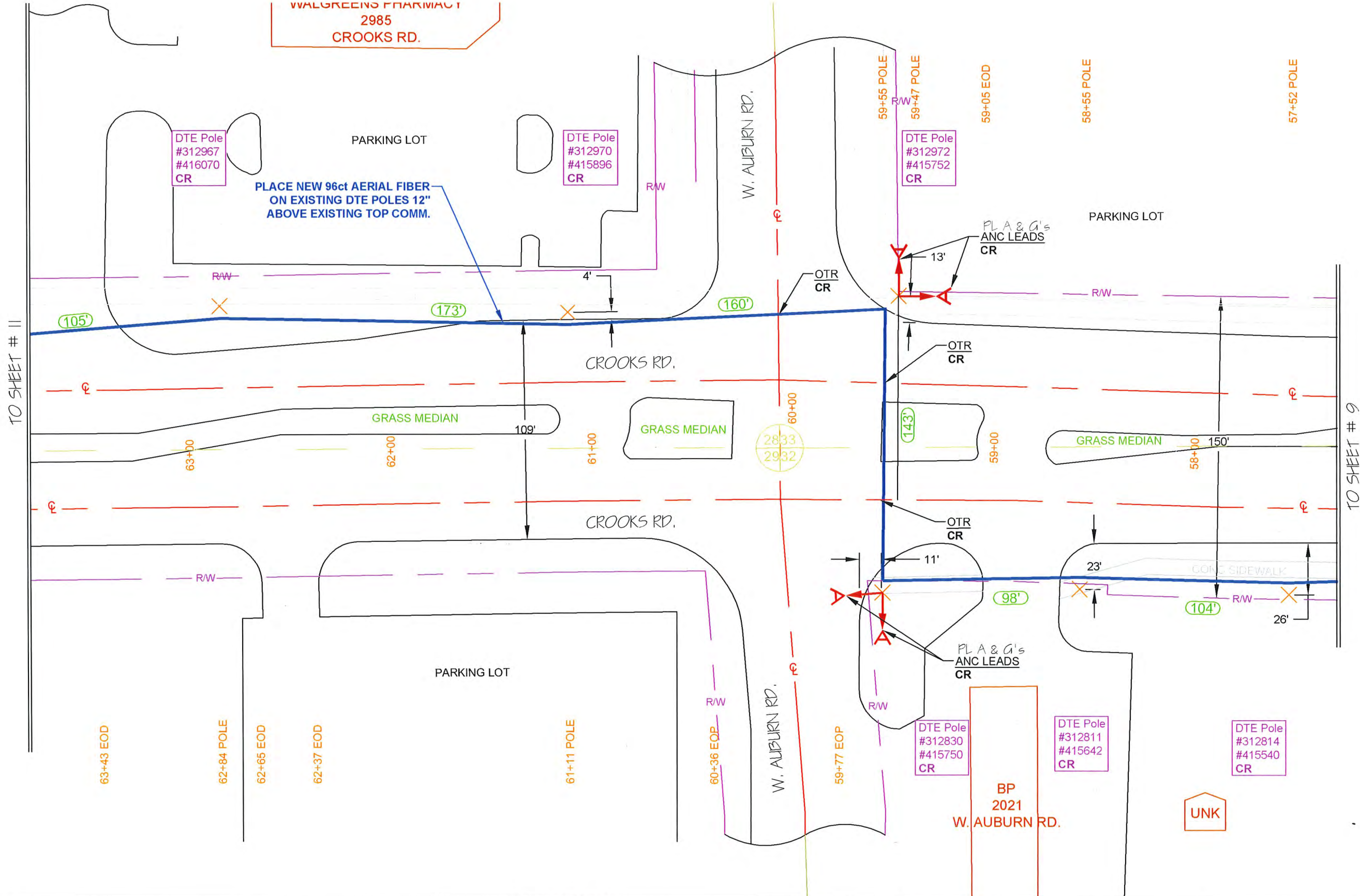
REVISIONS

REV. #	DESCRIPTION	BY	DATE
1		XXX	XX/XX/XX

CABLE AND INNERDUCT DESCRIPTION
CABLE FIBER COUNT: 96 ct. FOC
INNERDUCT:

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1814 S. ROCHESTER RD.
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DRAWN BY: RAMTACH	DATE: 07/05/18
AS-BUILTS BY:	DATE:
ENGINEERED BY: RA	DRAWING SCALE: 1" = 50'
JOB NUMBER: 0012	
DRAWING NUMBER: 10 OF 38	



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