CITY OF AURORA

OUTSIDE PLANT FIBER OPTIC BUILD

W DIEHL RD & N EOLA RD (CO RD 14) AURORA, IL 60502

CONTACT INFORMATION:

ENGINEER:



OFFICE 630.572.9999 • FAX 630.572.9998

OWNER:

CITY OF AURORA

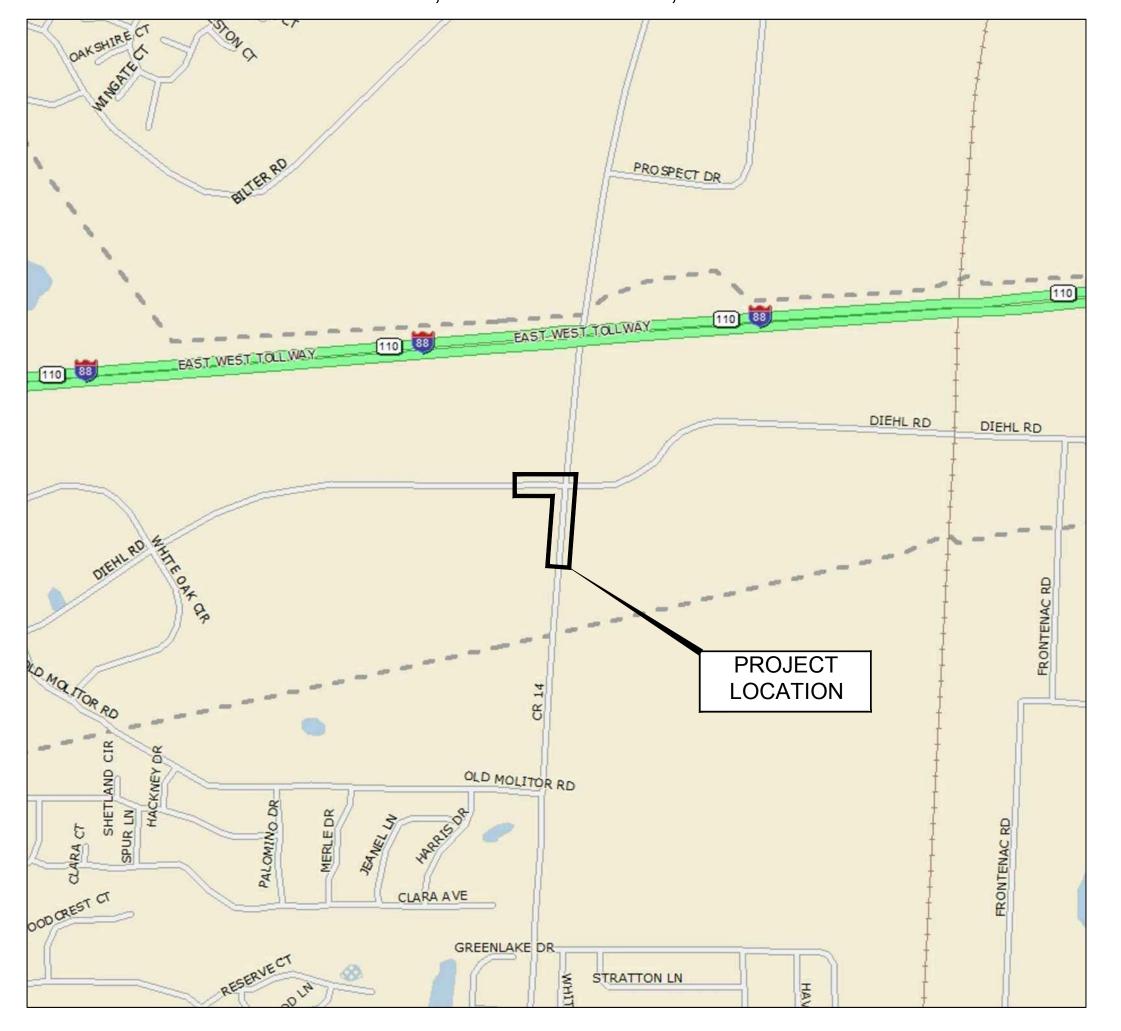
44 E DOWNER PLACE AURORA, IL 60507 OFFICE 630.256.3200 • FAX 630.256.3229

CONTRACTOR:



1350 W WASHINGTON ST WEST CHICAGO, IL 60185 OFFICE: 630.851.7751

SEC 5 & 8, T38N-R9E AURORA, DUPAGE COUNTY, ILLINOIS





PROJECT NUMBERS:

PROJECT NO: 1826-001

PROJECT DESCRIPTION:

INSTALLATION OF (6)-2" SCHEDULE 40 PVC AND CONDUIT OR (6)-2" SDR-11 HDPE CONDUIT @ A MINIMUM DEPTH DETERMINED IN THE FIELD BY TRENCH / OPEN CUT OR DIRECTIONAL BORE;

CONSTRUCTION STARTS AT EXISTING MANHOLE AT 3.4' SSL (DIEHL) & 731.2' WWL (EOLA), CONTINUES EAST APPOX. 705', THEN SOUTH APPROX. 520', THEN EAST APPROX. 93', THEN NORTH APPROX. 489' AND PLACE HANDHOLE AT 68.7" SSL (DIEHL) & 2.2" NWSEL (EOLA).

DRAWING INDEX

SHEET	TITLE
1	COVER
2	LEGEND
3	NOTES AND ABBREVIATIONS
4	TYPICALS
5	BILL OF MATERIALS
6	SITE PLAN
7-9	OSP PLAN(S)



JULIE 1-800-892-0123

REQUIRES 48 HRS. NOTICE BEFORE YOU EXCAVATE



ENGINEER'S CERTIFICATION: HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE CONFORM TO ALL LOCAL CODES AND ORDINANCES. ANY REPRODUCTIONS, PROFESSIONAL ENGINEER
P.E. 062.059559 EXP. 11-30-2019

DRAWING SCALE:

AS NOTED

ENGINEER:



OFFICE 630.572.9999 FAX 630.572.9998

OWNER:

CITY OF **AURORA**

AURORA, IL 60507 OFFICE: 630.256.3200



1350 W WASHINGTON ST WEST CHICAGO, IL 60185 OFFICE: 630.851.7751

TITLE:

PROJECT

OUTSIDE PLANT FIBER

W DIEHL RD & N EOLA RD (CO RD 14) AURORA, IL 60502

PROJECT NUMBER:		1826-001
DRAWN BY:		DATE DRAWN:
JCS		04/23/18
5	09/06/18	ADDED HANDHOLES
4	08/09/18	REVISED PER CLIENT
3	08/03/18	ADDED DIMENSIONS
2	06/07/18	CALLOUT REVISION
1	06/07/18	ROUTE REVISION
	04/23/18	PERMIT

REVISIONS

DESCRIPTION

SHEET NUMBER

NO. DATE

LEGEND

_____XO____XO____XO____

_____ZAYO _____ZAYO _____ZAYO _____

TILITIES:	COMMUNICATIONS:	
UTILITY MARKER	ATT MANHOLE/HANDHOLE	ATT
STORM INLET	COMCAST MANHOLE/HANDHOLE	смст смст
CULVERT >	COMMUNICATION MH/HH	СОМ
CATV MANHOLE TV	FOC HANDHOLE	
STORM MANHOLE S	KDL MANHOLE/HANDHOLE	KDL KDL
SANITARY MANHOLE SS	LEVEL 3 MANHOLE/HANDHOLE	L3 L3
CATCH BASIN	LIGHTOWER MANHOLE/HANDHOLE	LTR LTR
GAS MANHOLE G	MCI MANHOLE/HANDHOLE	MCI MCI
GAS VALVE	NEXTEL MANHOLE/HANDHOLE	NXT NXT
WATER MANHOLE W	NEXTLINK MANHOLE/HANDHOLE	NXL NXL
WATER VALVE	RCN MANHOLE/HANDHOLE	RCN RCN
FIRE HYDRANT	SBC MANHOLE/HANDHOLE	SBC SBC
ELECTRIC MANHOLE E E	SIDERA MANHOLE/HANDHOLE	SID SID
ELECTRIC EQUIPMENT BOX	SPRINT MANHOLE/HANDHOLE	SPT SPT
TRAFFIC CONTROL BOX/MANHOLE TFC TC	SUNESYS MANHOLE/HANDHOLE	SUN SUN
COMED MANHOLE CE	VINAKOM MANHOLE/HANDHOLE	VKM VKM
COMED EQUIPMENT BOX	VERIZON MANHOLE/HANDHOLE	VZB VZB
STREET LIGHT	ZAYO MANHOLE/HANDHOLE	ZAYO
TRAFFIC SIGNAL	ADELPHIA ——ADL——	ADL ADL
POWER POLE —	ATT —————	ATT ———————————————————————————————————
UTILITY POLE -O-	COMCAST ——cmct——	CMCTCMCT
FOC MANHOLE F	CROWN CASTLE ————cc———	cccc
UNIDENTIFIED MANHOLE U	FIBER OPTIC CABLE ———FO———	F0 — F0 —
RAILROAD SIGNAL RR RR——	IBT	IBT ————————————————————————————————————
CATV PED	KDL ————————————————————————————————————	KDLKDL
POWER PED P	LEVEL 3 ——LVL3——	LVL3LVL3
FOC PED F	LIGHTOWER ——LTR——	LTRLTR
UNIDENTIFIED PED U	MCI	
ELECTRICAL CABLE — E——E——E——E——E———E———E———E———E———E——	NEXTEL	NXT ——— NXT ————————————————————————————
COMED —— ce —— ce —— ce ——	NEXTLINKNXL	NXLNXL
GAS LINE	— G ———— RCN ———— RCN —————————————————————	RCN
GAS LINE 4"	SBC	SBC SBC
WATER LINE		
WATER 8"	SPRINT ——spt ——	SPTSPT
STORM SEWER —>———>———	SUNESYS ——sun——	SUNSUN
STORM SEWER 8"	TELEPHONE ——TEL——	TEL TEL
SAN SEWER	UNICOMutt	UTTUTT
SAN SEWER 8"	VERIZONvzb	VZB
	VINAKOM ——VKM———	VKMVKM
	WOW ——wow	wow—wow—

XO

ZAYO

BORE PIT	
MANHOLE	0 🗆
QUAZITE BOX	
DIRECTIONAL BORE	DB DB
TRENCH	
GENERAL:	
HANDICAP RAMP	
PARKING BOX	
SIGN	4
TREE	
BACK OF CURB	
EDGE OF PAVEMENT	
FENCE	xxxx
RAILROAD TRACKS	+ + + + + + + + + + + + + + + + + + + +
RIGHT OF WAY	

BUCKEYE

DRAWING SCALE:

ENGINEER:



2649 GARDNER RD BROADVIEW, IL 60155 OFFICE 630.572.9999 FAX 630.572.9998

OWNER:

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04/23/18 PERMIT

NO. DATE DESCRIPTION **REVISIONS**

SHEET NUMBER

NOTES & ABBREVIATIONS:

ABBREVIATIONS:

ASPH **ASPHALT** BLDG BUILDING BLVD BOULEVARD CB **CATCH BASIN CBL** CURB LINE CIP CAST IRON PIPE CL CENTERLINE **CNTY** COUNTY CONC CONCRETE **CONCRETE SIDEWALK**

CWALK

CULV CULVERT

DCT CONDUIT DUCTS

DPWC DUPAGE WATER COMMISSION

DRIV DRIVEWAY EΑ **EACH** EL **ELEVATION** EOC **END OF CABLE** EOP **EDGE OF PAVEMENT** EOS **EDGE OF SIDEWALK** EX **EXISTING**

FΗ FIRE HYDRANT **GALV GALVANIZED**

GIMT GALVANIZED INTERMEDIATE TUBE

GIP GALVANIZED IRON PIPE GRS GALVANIZED RIGID STEEL

GRVL GRAVEL

HIGH DENSITY POLYETHYLENE

HH HANDHOLE HORIZ HORIZONTAL

ILAW ILLINOIS AMERICAN WATER

LT LEFT MH **MANHOLE**

METROPOLITAN WATER RECLAMATION DISTRICT **MWRD**

PED PEDESTAL PLPROPERTY LINE PR PROPOSED

PVC POLYVINYL CHLORIDE

RD ROAD ROW, R/W **RIGHT-OF-WAY**

RTE ROUTE RR RAILROAD SAN SANITARY SE SOUTHEAST SEC SECTION SH SHEET SIG SIGNAL STL STEEL TW **TEST WINDOW**

WATERMAIN

GENERAL NOTES:

- 1. ALL WORK TO BE DONE WITH EXTREME CAUTION. FIBER OPTIC CABLE CARRYING TRAFFIC AND LOSS OF SERVICE WILL RESULT IN LOSS OF REVENUE.
- 2. ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, OR THE RIGHT-OF-WAY GRANTOR.
- 3. LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD VALUATION MAPS OR OTHER DRAWINGS, AND MAY BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
- 4. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS, BUT NOT NECESSARILY EXACT. THEREFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN EVENT OF CONFLICT.
- 5. ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHERS ENCOUNTERED ARE ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, PROTECT, OR REPAIR, IF DAMAGED.
- 6. ANY AND ALL IMPROVEMENTS, SUCH AS, ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

CONSTRUCTION NOTES:

- 1. THE ENCLOSED DESIGN IMPLIES EXISTING UTILITIES. THE UTILITIES HAVE NOT BEEN FIELD VERIFIED FOR LOCATION. THEREFORE, ALL UTILITIES IMPLIED WITHIN THIS DOCUMENT ARE TO BE REFERRED TO AS A "REFERENCE TOOL". IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR IT'S SUBCONTRACTORS TO VERIFY THESE UTILITIES USING ANY AND ALL METHODS AND INSTRUMENTS AVAILABLE IF/WHEN NECESSARY. CCSI DESIGN GROUP, INC. (CCSI) CANNOT GUARANTEE UTILITY LOCATIONS. ALL DOCUMENTATION ON EXISTING UTILITIES HAS BEEN IMPLIED UTILIZING "INFORMATION RETRIEVAL PROCESSES" FROM EACH JURISDICTION INVOLVED (I.E., STATE, COUNTY AND/OR MUNICIPALITY, TO INCLUDE OTHERS). UTILITIES AND THE SAFETY OF SAME, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR PERFORMING THE WORK.
- 2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE ALL CONDUITS ARE INSTALLED AS PRESCRIBED IN THESE DRAWINGS. CCSI DESIGN GROUP, INC. (CCSI) WAS NOT RETAINED OR PROVIDED A SURVEY OF THE THE PROPERTY BOUNDARIES AND THEREFORE CAN NOT GUARANTEE THE ACCURACY OF BOUNDARY SHOWN (I.E. PUBLIC WAY, PRIVATE PROPERTY, EASEMENTS ETC.) NOR IS IT TO BE ASSUMED EASEMENTS, SALE OF PROPERTIES HAS NOT OCCURRED DURING & AFTER CCSI'S RESPONSIBILITIES FOR THIS PROJECT HAVE PAST. THENCE ALL BOUNDARIES, EASEMENTS, PROPERTY LINES ETC. ARE TO BE USED AS A GUIDELINE OR REFERENCE AND SHOULD NOT BE TAKEN LITERALLY. IT IS THE CONTRACTORS RESPONSIBILITY TO STAKE ALL ASSOCIATED BOUNDARIES IF SO QUESTIONED. ALL ASPECTS OF BOUNDARIES IMPLIED HEREIN. HAVE BEEN DERIVED THROUGH AVAILABLE MEDIA SUCH AS BUT NOT LIMITED TO (SIDWELL, GOOGLE EARTH PRO. MUNICIPAL, STATE, COUNTY AND OTHER RECORD TYPES). CCSI DOES NOT AGREE NOR DISAGREE WITH THE ABOVE-MENTIONED RECORDS, IT IS SIMPLY A REFERENCE TOOL.
- 3. ALL CONDUIT WILL BE 4" ID SCHEDULE 40. MANUFACTURED SPLIT PVC OR SPLIT BSP/GSP. UNLESS SPECIFIED OTHERWISE.
- 4. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
- 5. SHORING MAY BE REQUIRED AND SHALL COMPLY TO O.S.H.A. STANDARDS.
- 6. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 36" MINIMUM COVER UNLESS SPECIFIED OR OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS.
- 7. MECHANICAL PROTECTION SHALL BE REQUIRED WHENEVER A 36" MINIMUM COVER IS NOT OBTAINABLE UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.
- 8. ALL 90 DEGREE BEND IN CONDUIT CONSTRUCTION WILL BE A MINIMUM 36.0" RADIUS UNLESS OTHERWISE SPECIFIED. ALL SPLIT CONDUIT BENDS AND SOLID PVC BENDS SHALL REQUIRE CONCRETE ENCASEMENTS, UNLESS SPECIFIED OTHERWISE.

DRAWING SCALE:

ENGINEER:



BROADVIEW. IL 60155 OFFICE 630.572.9999 FAX 630.572.9998

OWNER:

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CONTRACTOR



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2 06/07/18 CALLOUT REVISION 1 06/07/18 ROUTE REVISION

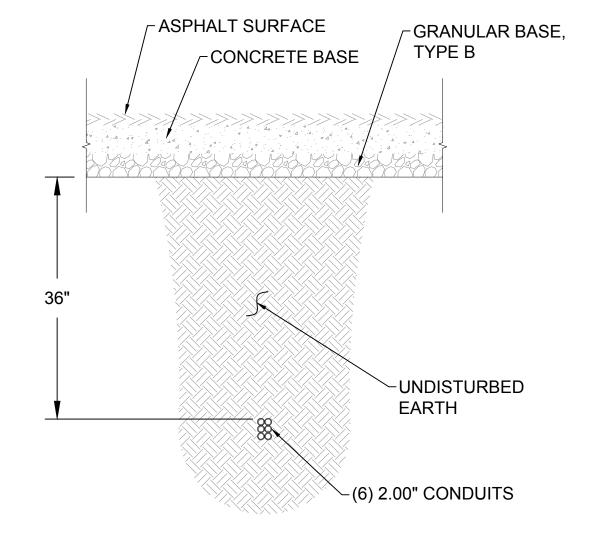
PERMIT 04/23/18

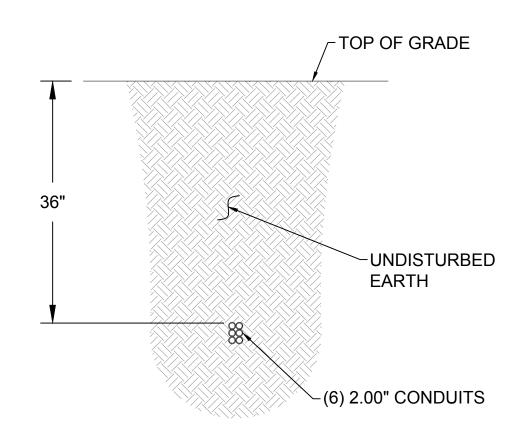
NO. DATE **DESCRIPTION**

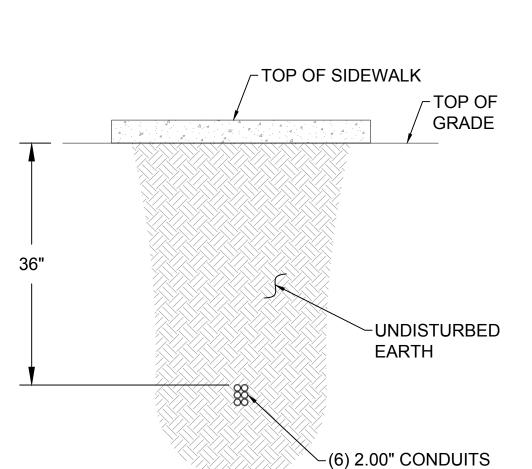
REVISIONS

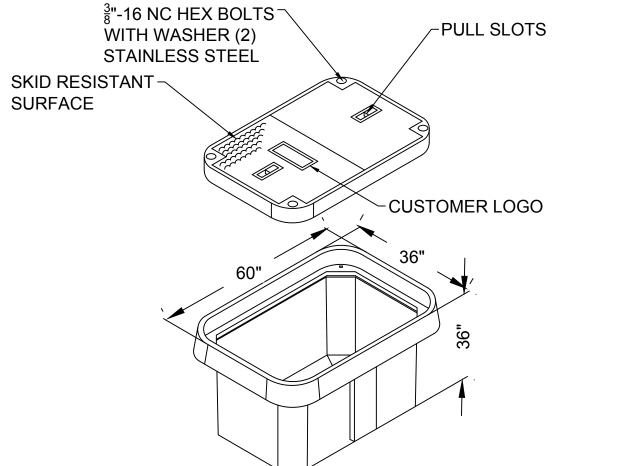
SHEET NUMBER

TYPICALS



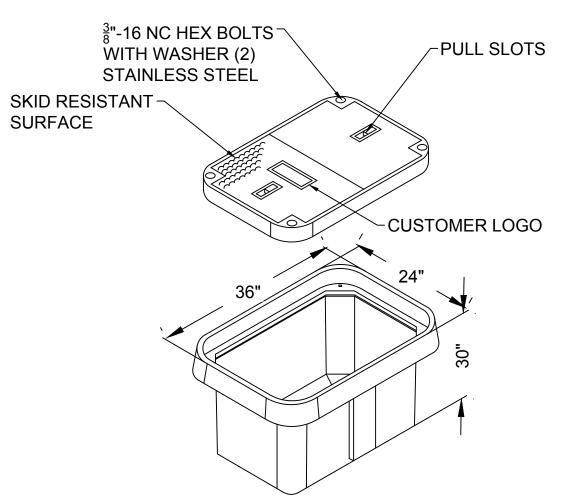


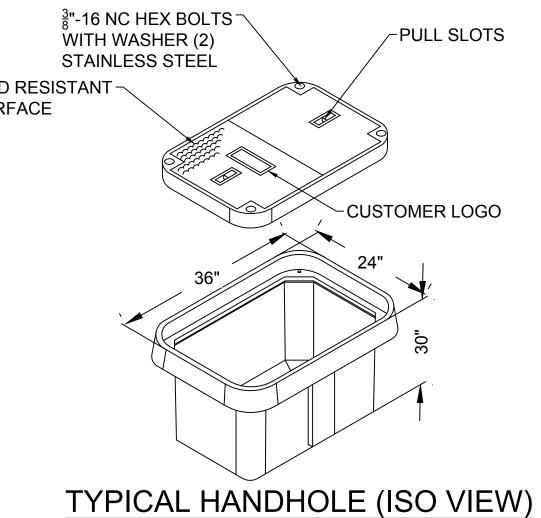


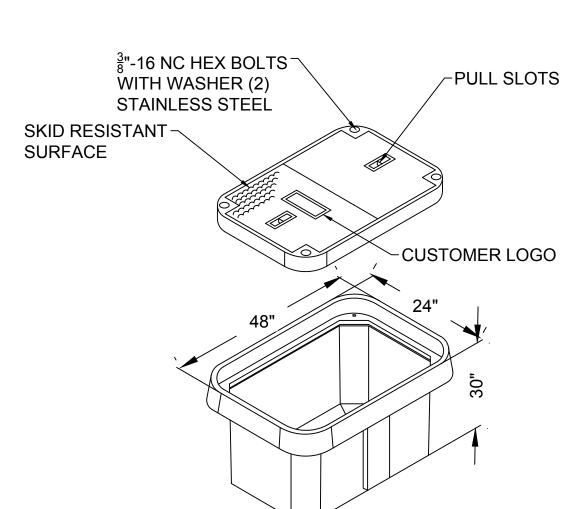


SURFACE

TYPICAL HANDHOLE (ISO VIEW) SCALE: NOT TO SCALE



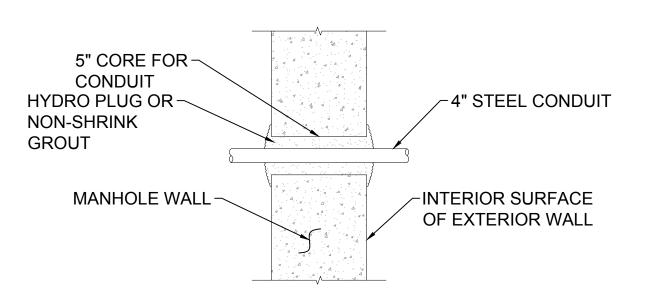




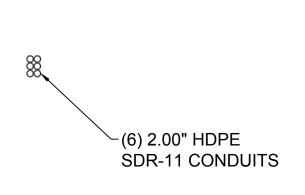
SCALE: NOT TO SCALE

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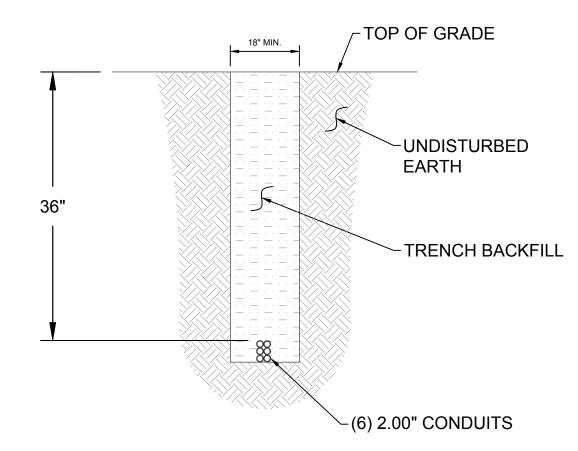
(6) 2.00" BORE CROSS SECTION SCALE: NOT TO SCALE



(6) 2.00" BORE CROSS SECTION SCALE: NOT TO SCALE



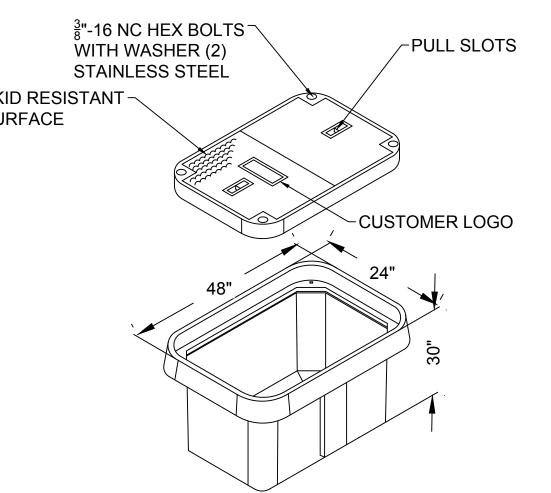
(6) 2.00" HDPE CONDUITS CROSS **SECTION** SCALE: NOT TO SCALE



(6) 2.00" BORE CROSS SECTION

SCALE: NOT TO SCALE

TRENCH CROSS SECTION SCALE: NOT TO SCALE



TYPICAL HANDHOLE (ISO VIEW)

DRAWING SCALE:

AS NOTED

ENGINEER:



2649 GARDNER RD BROADVIEW, IL 60155 OFFICE 630.572.9999 FAX 630.572.9998

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W DIEHL RD & N EOLA RD (CO RD 14) AURORA, IL 60502

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SHEET NUMBER



BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
	2" HDPE SDR-11 CONDUIT	4458	LF
	2" PVC SCHEDULE 40 CONDUIT	6426	LF
	12 GAUGE TRACER WIRE	1814	LF
	DIRECTIONAL BORE	743	LF
	OPEN CUT / TRENCH	1071	LF
	MANHOLE CORE(S)	1	EA
	36"x24"x30" HANDHOLE(S)	1	EA
	60"x36"x36" HANDHOLE(S)	5	EA
	48"x24"x30" HANDHOLE(S)	5	EA
	TEST WINDOW(S)	3	EA

DRAWING SCALE:

N/

ENGINEER:



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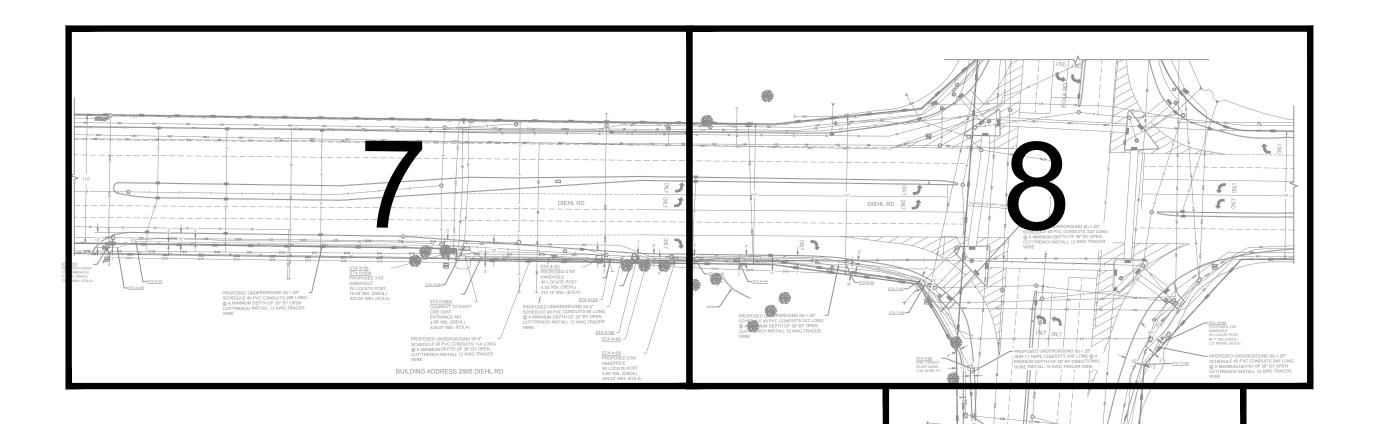
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5

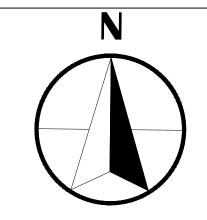
PLAN & PROFILE

SEC 5 & 8, T38N-R9E AURORA, DUPAGE COUNTY, ILLINOIS



DIEHL RD





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N.T.S.

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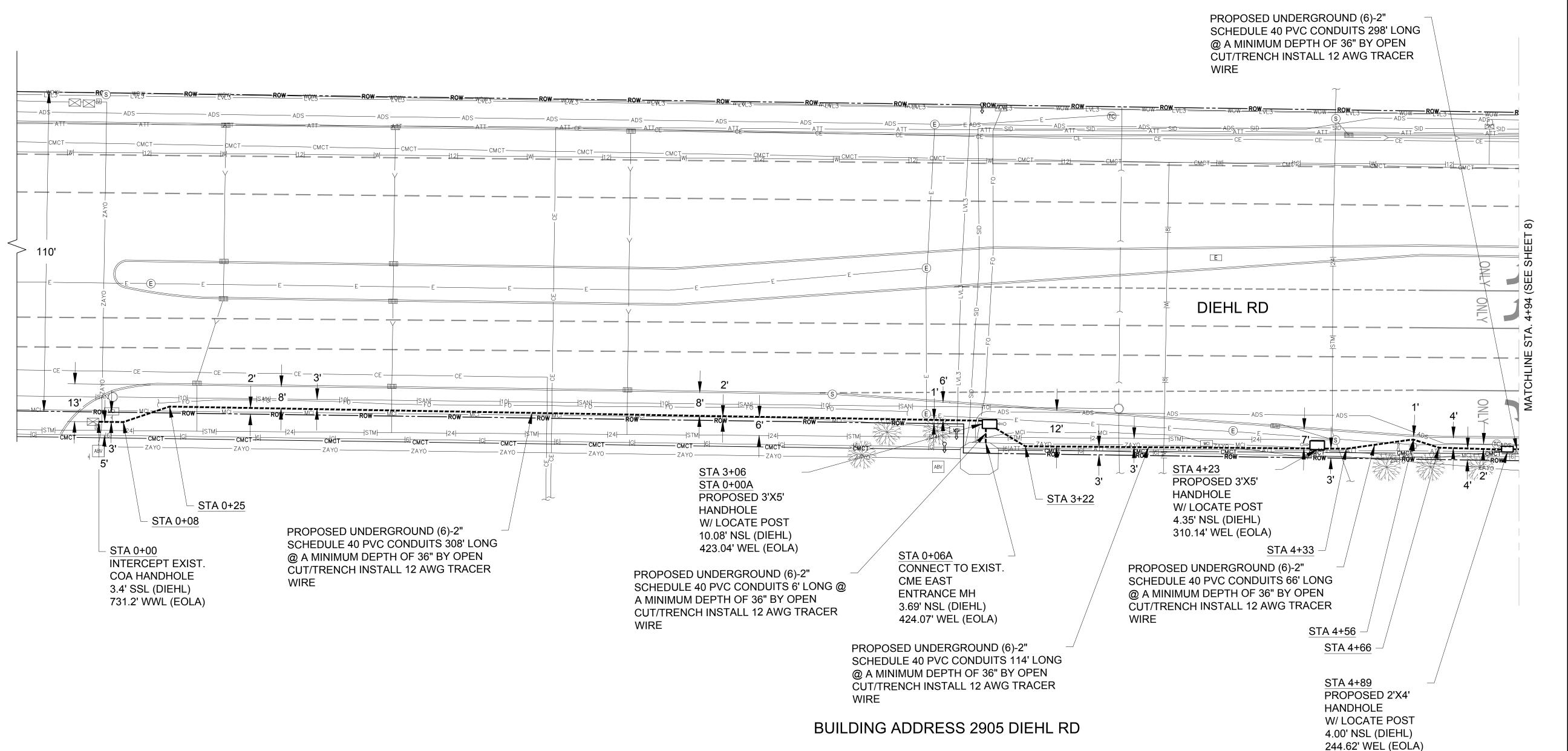
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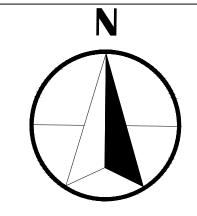
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PLAN & PROFILE

SEC 5 & 8, T38N-R9E AURORA, DUPAGE COUNTY, ILLINOIS





DRAWING SCALE: 1" = 20'

ENGINEER



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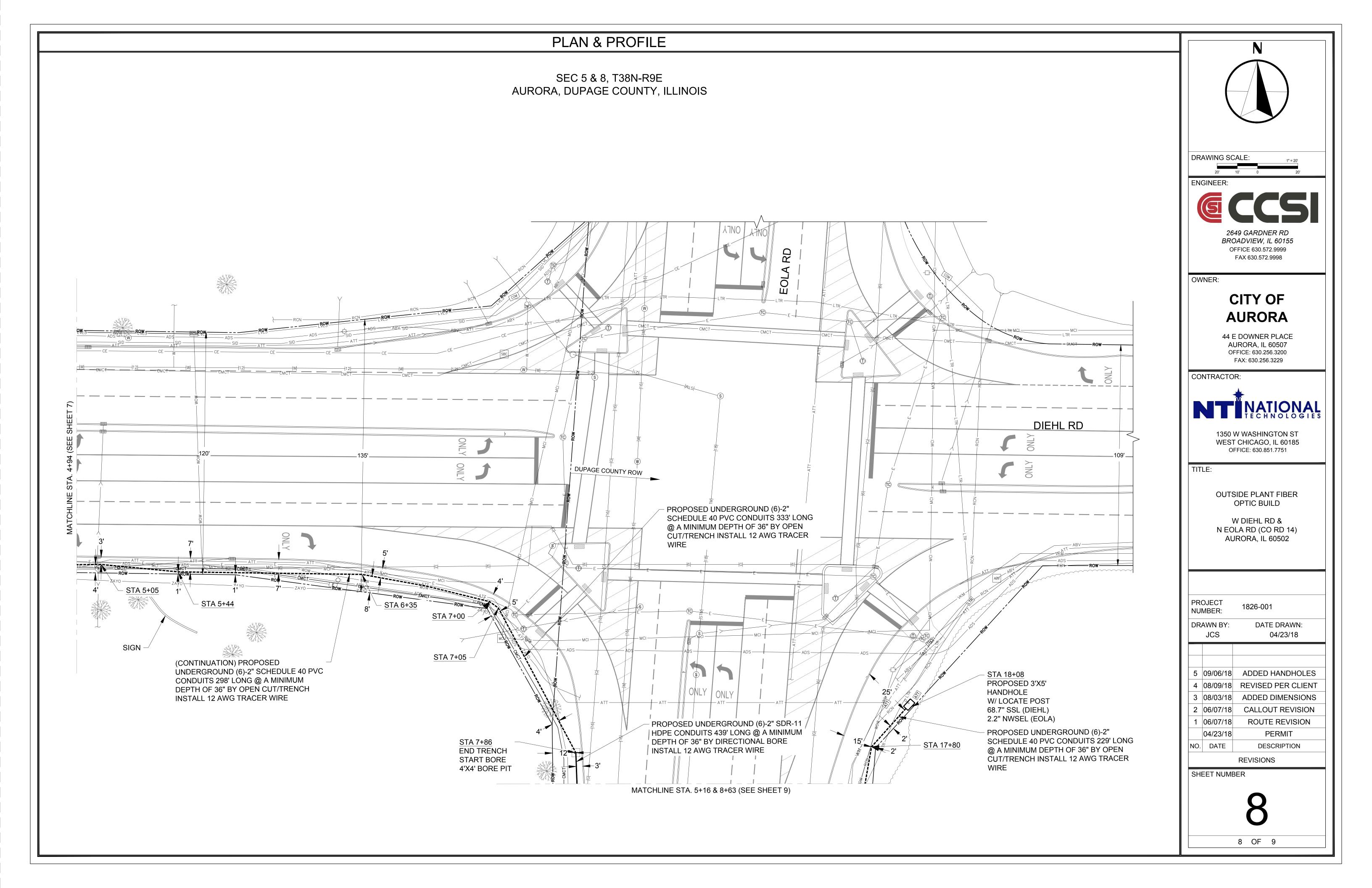
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REVISIONS

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NO. DATE

7



PLAN & PROFILE SEC 5 & 8, T38N-R9E AURORA, DUPAGE COUNTY, ILLINOIS DRAWING SCALE: ENGINEER: STA 12+25 PROPOSED UNDERGROUND (6)-2" SDR-11 PROPOSED 3'X5' HDPE CONDUITS 439' LONG @ A MINIMUM HANDHOLE DEPTH OF 36" BY DIRECTIONAL BORE W/ LOCATE POST INSTALL 12 AWG TRACER WIRE 2649 GARDNER RD 4'X4' BORE PIT BROADVIEW, IL 60155 529.1' SSL (DIEHL) STA 10+73 OFFICE 630.572.9999 5.6' EWL (EOLA) FAX 630.572.9998 STA 8+17 OWNER: CITY OF **AURORA** 44 E DOWNER PLACE AURORA, IL 60507 OFFICE: 630.256.3200 FAX: 630.256.3229 CONTRACTOR: - TEST WINDOW(S) 1350 W WASHINGTON ST EOLA RD WEST CHICAGO, IL 60185 OFFICE: 630.851.7751 TITLE: OUTSIDE PLANT FIBER W DIEHL RD & N EOLA RD (CO RD 14) AURORA, IL 60502 - STA 13+18 4'X4' BORE PIT PROJECT 1826-001 PROPOSED UNDERGROUND (6)-2" SDR-11 NUMBER: HDPE CONDUITS 304' LONG @ A MINIMUM DATE DRAWN: DEPTH OF 36" BY DIRECTIONAL BORE DRAWN BY: ^-4 <u>16+14</u> STA 15+29 **INSTALL 12 AWG TRACER WIRE** JCS 04/23/18 - STA 15+81 END BORE PROPOSED 36"X24" START TRENCH HANDHOLE PROPOSED UNDERGROUND (6)-2" 4'X4' BORE PIT W/ LOCATE POST SCHEDULE 40 PVC CONDUITS 229' LONG 285.06' SSL (DIEHL) PROPOSED UNDERGROUND (6)-2" 5 09/06/18 ADDED HANDHOLES @ A MINIMUM DEPTH OF 36" BY OPEN 5.78' WEL (EOLA) SCHEDULE 40 PVC CONDUITS 33' LONG CUT/TRENCH INSTALL 12 AWG TRACER 4 08/09/18 REVISED PER CLIENT @ A MINIMUM DEPTH OF 36" BY OPEN WIRE CUT/TRENCH INSTALL 12 AWG TRACER 3 08/03/18 ADDED DIMENSIONS WIRE 2 06/07/18 CALLOUT REVISION PROPOSED UNDERGROUND (6)-2" STA 15+62 SCHEDULE 40 PVC CONDUITS 17' LONG 1 06/07/18 **ROUTE REVISION** PROPOSED 3'X5' HANDHOLE @ A MINIMUM DEPTH OF 36" BY OPEN PERMIT 04/23/18 W/ LOCATE POST CUT/TRENCH INSTALL 12 AWG TRACER 304.5' SSL (DIEHL) DESCRIPTION NO. DATE WIRE 5.8' WEL (EOLA) REVISIONS SHEET NUMBER 9 OF 9