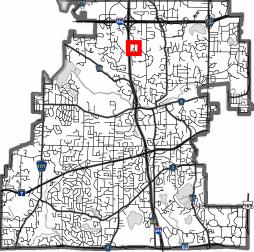
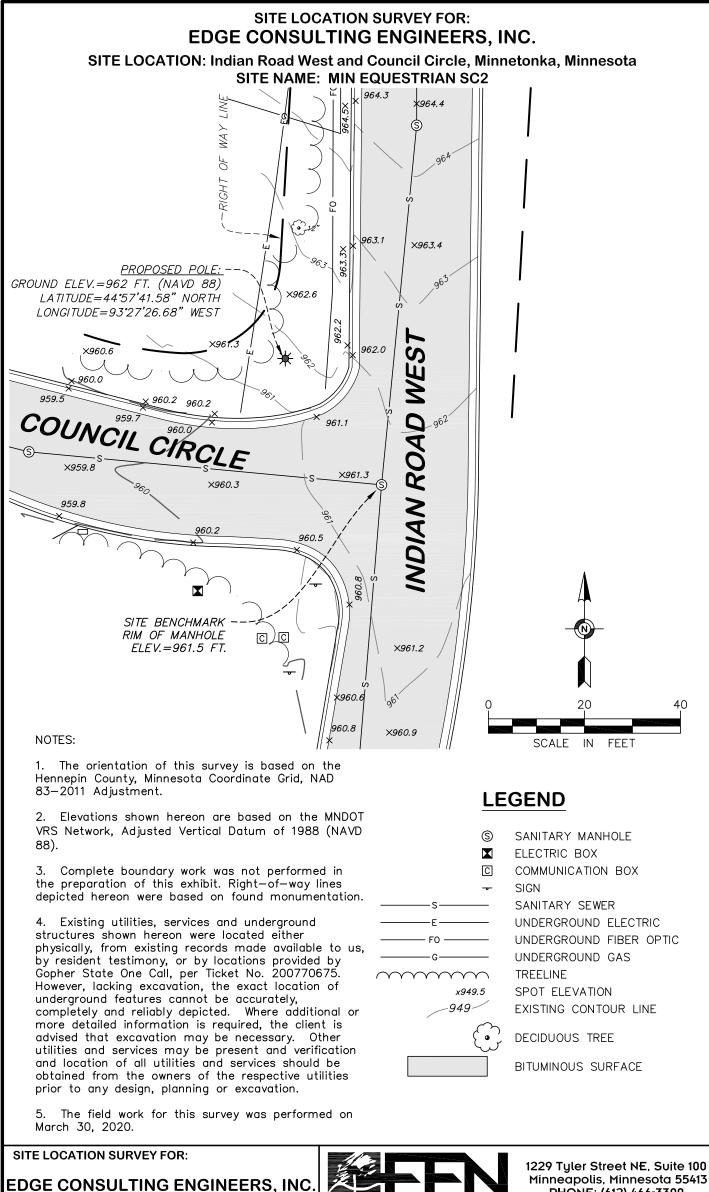


## **Location Map**

Project: Verizon Small Cell Wireless Location: Indian Road W and Council Circle







FILE NO. 6138

SITE LOCATION: Indian Road West and

Council Circle, Minnetonka, Minnesota

36900

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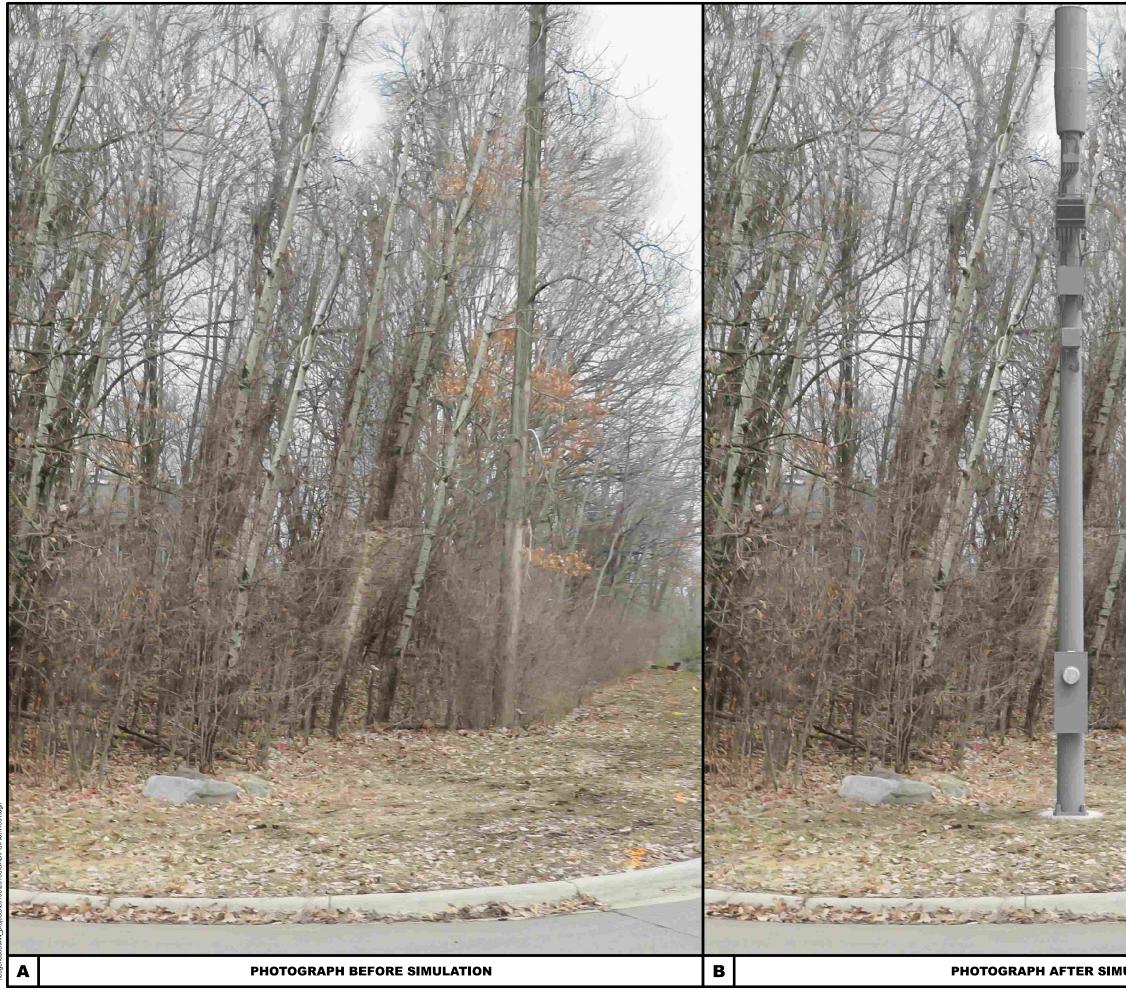
PROJECT

EFN

PHONE: (612) 466-3300 FAX: (612) 466-3383 WWW.EFNSURVEY.COM COPYRIGHT © 2020 By EGAN, FIELD & NOWAK, INC.

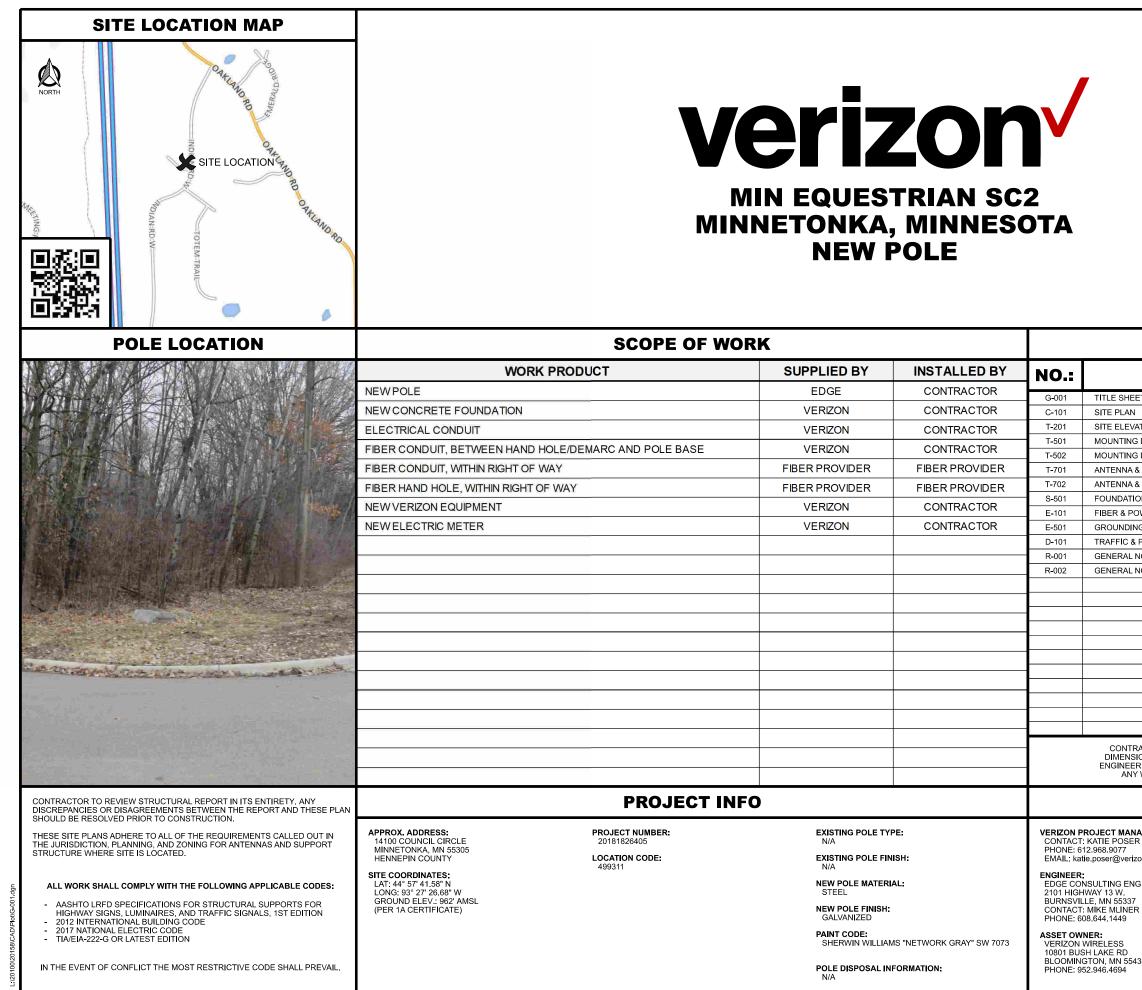
Egan, Field & Nowak, Inc.

land surveyors since 1872

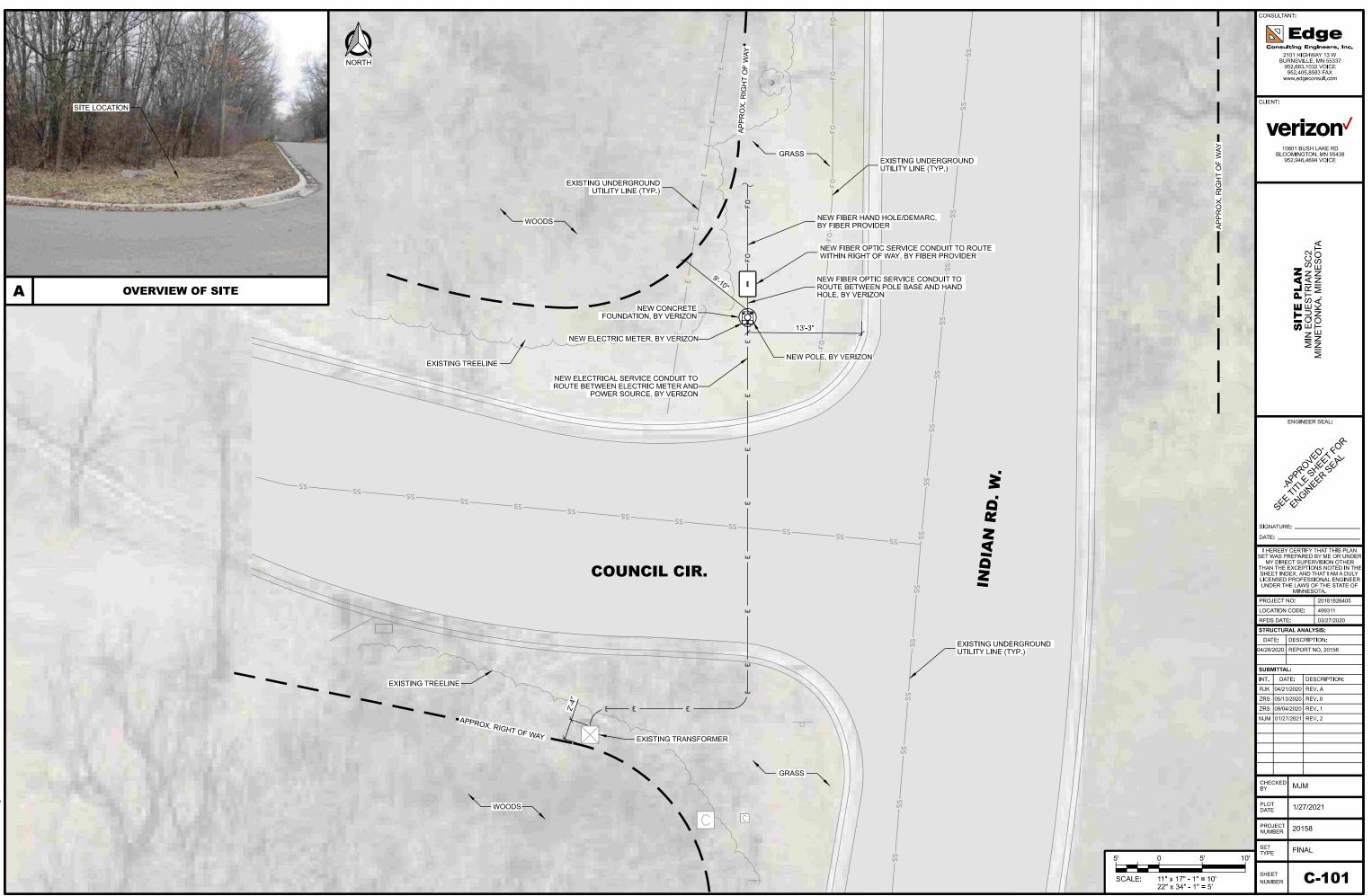


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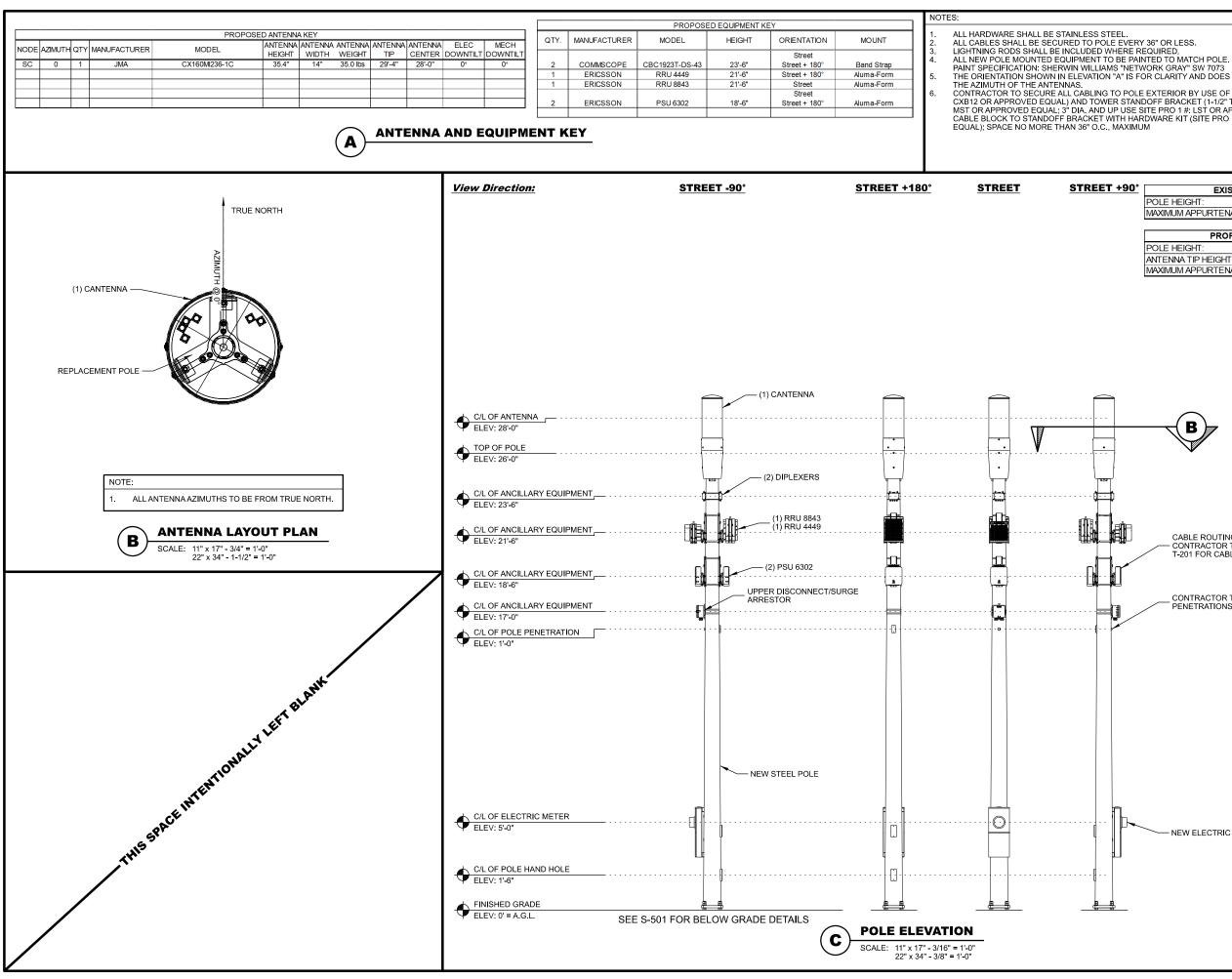


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		NI: Edge Ing Engheers, Inc. 101 HIGHWAY 13 W RSVILLE, MX 55337 52.683.1032 VOICE 952.405.883 FAX www.edgeconsult.com Prizeonov Roll BUSH LAKE RD DMINGTON, MN 55438 52.946.4694 VOICE					
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RACTOR SHALL VERIFY ALL PLANS AND EXISTING SIONS/CONDITIONS ON SITE. IMMEDIATELY NOTIFY	DATE:	CODE: 499311 :: 03/27/2020 IAL ANALYSIS: DESCRIPTION: REPORT NO. 20158 .:					
Y NOF ANY DISCREPANCIES PRIOR TO PERFORMING Y WORK OR BE RESPONSIBLE FOR THE SAME.	RJK 04/21 ZRS 05/13 ZRS 09/04 MJM 01/27	/2020 REV. 0 /2020 REV. 1					
AGER:   ROW CONTACT:     R   CITY OF MINNETONKA     14600 MINNETONKA BLVD     zonwireless.com   MINNETONKA, MN 55345     PHONE: 952.939.8200     IGINEERS, INC.   POWER PROVIDER:     XCEL ENERGY     7   414 NICOLLET MALL     R   MINNEAPOLIS, MN 55401     PHONE: 1.800.895.4999	CHECKED BY PLOT DATE PROJECT NUMBER SET	MJM 1/27/2021 20158					
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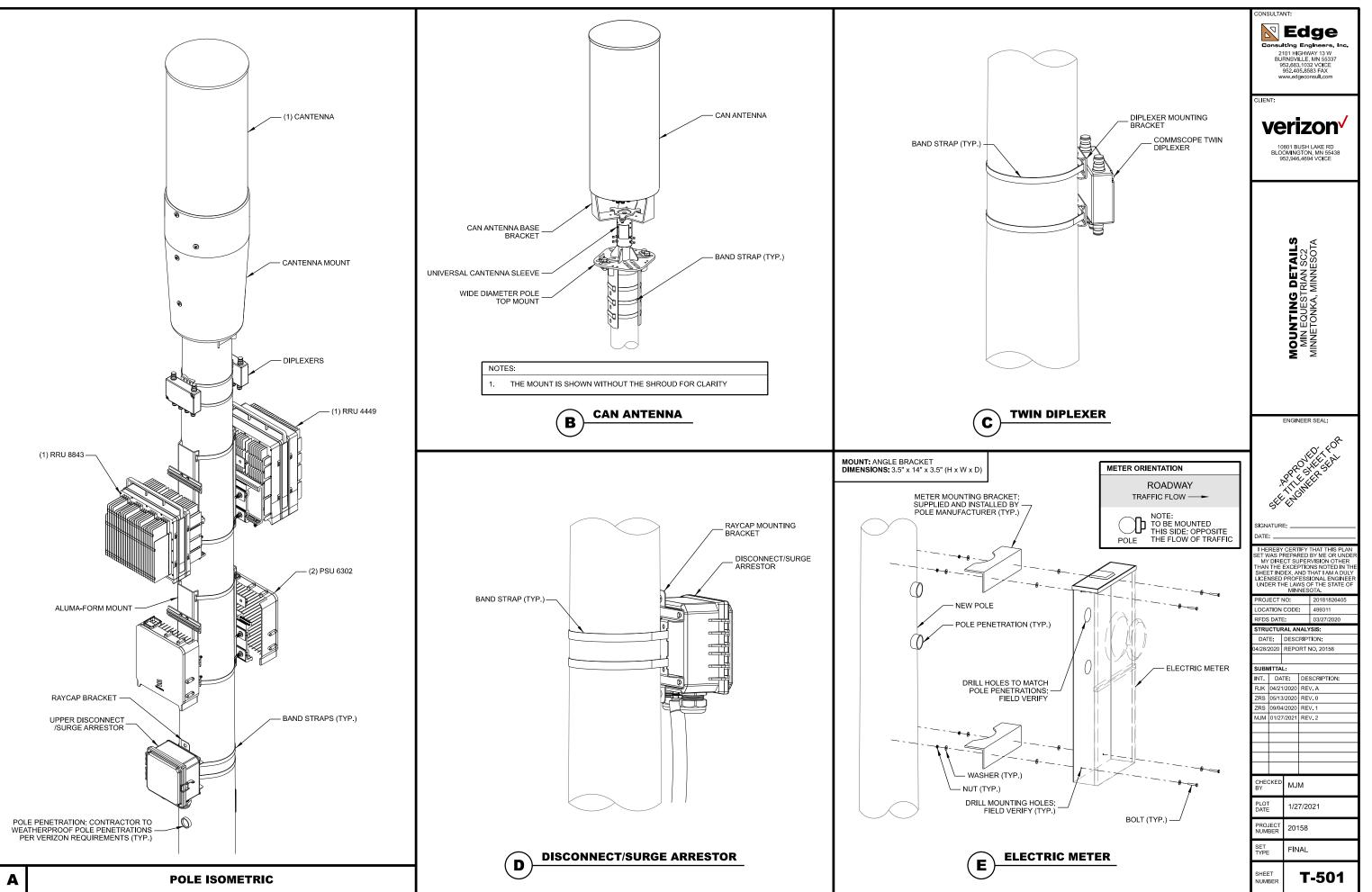
## NSUI TAN 🔀 Edge sulting Engineers, Inc. 2101 HIGHWAY 13 W BURNSVILLE, MN 55337 952.683.1032 VOICE 952.405.8583 FAX www.edgeconsult.com PAINT SPECIFICATION: SHERWIN WILLIAMS "NETWORK GRAY" SW 7073 THE ORIENTATION SHOWN IN ELEVATION "A" IS FOR CLARITY AND DOES NOT ACCURATELY REPRESENT THE AZIMUTH OF THE ANTENNAS. CONTRACTOR TO SECURE ALL CABLING TO POLE EXTERIOR BY USE OF CABLE BLOCK (SITE PRO 1 #: CXB12 OR APPROVED EQUAL) AND TOWER STANDOFF BRACKET (1-1/2" TO 3" DIA. USE SITE PRO 1 #: MST OR APPROVED EQUAL; 3" DIA. AND UP USE SITE PRO 1 #: LST OR APPROVED EQUAL); SECURE CABLE BLOCK TO STANDOFF BRACKET WITH HARDWARE KIT (SITE PRO 1 #: CH35 OR APPROVED EQUAL DEPART OF THE ADAPT OF THE LIENT verizon 10801 BUSH LAKE RD BLOOMINGTON, MN 55438 952.946.4694 VOICE STREET +90° EXISTING POLE POLE HEIGHT N/A MAXIMUM APPURTENANCE HEIGHT: N/A PROPOSED POLE SITE ELEVATION & ANTENNA CONFIGURATION MIN EQUESTRIAN SC2 MINNETONKA, MINNESOTA POLE HEIGHT: 26'-0" T.O.C. ANTENNA TIP HEIGHT 29'-4" A G I MAXIMUM APPURTENANCE HEIGHT: 29'-4" A.G.L. В ENGINEER SEAL: CABLE ROUTING NOT SHOWN FOR CLARITY. CONTRACTOR TO REFERENCE NOTE 6 OF T-201 FOR CABLE ROUTING SPECIFICATIONS GNATURE: ATE. CONTRACTOR TO WEATHERPROOF POLE I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDE MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN TT SHEET INDEX, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEE UNDER THE LAWS OF THE STATE OF MINNESOTA. PENETRATIONS PER VERIZON REQUIREMENTS ---201818264 DCATION CODE: 499311 03/27/20: DS DATE: STRUCTURAL ANALYSIS: DATE: DESCRIPTION: 4/28/2020 REPORT NO. 20158 SUBMITTAL -INT. DATE: DESCRIPTION: RJK 04/21/2020 REV.A ZRS 05/13/2020 REV.0 ZRS 09/04/2020 REV.1 MJM 01/27/2021 REV. 2 - NEW ELECTRIC METER CHECKED MJM PLOT DATE 1/27/2021 PROJEC 20158 SET TYPE FINAL

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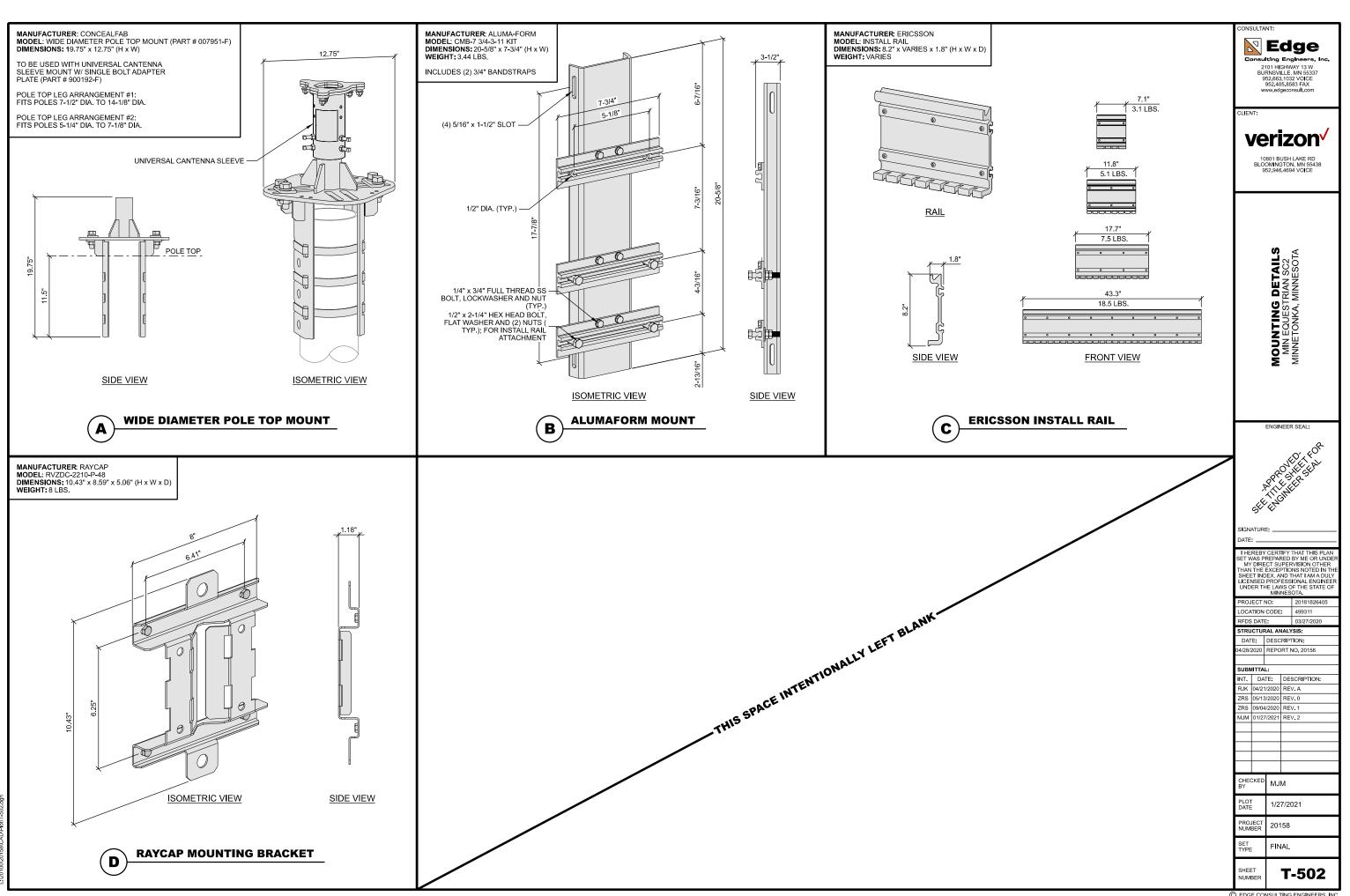
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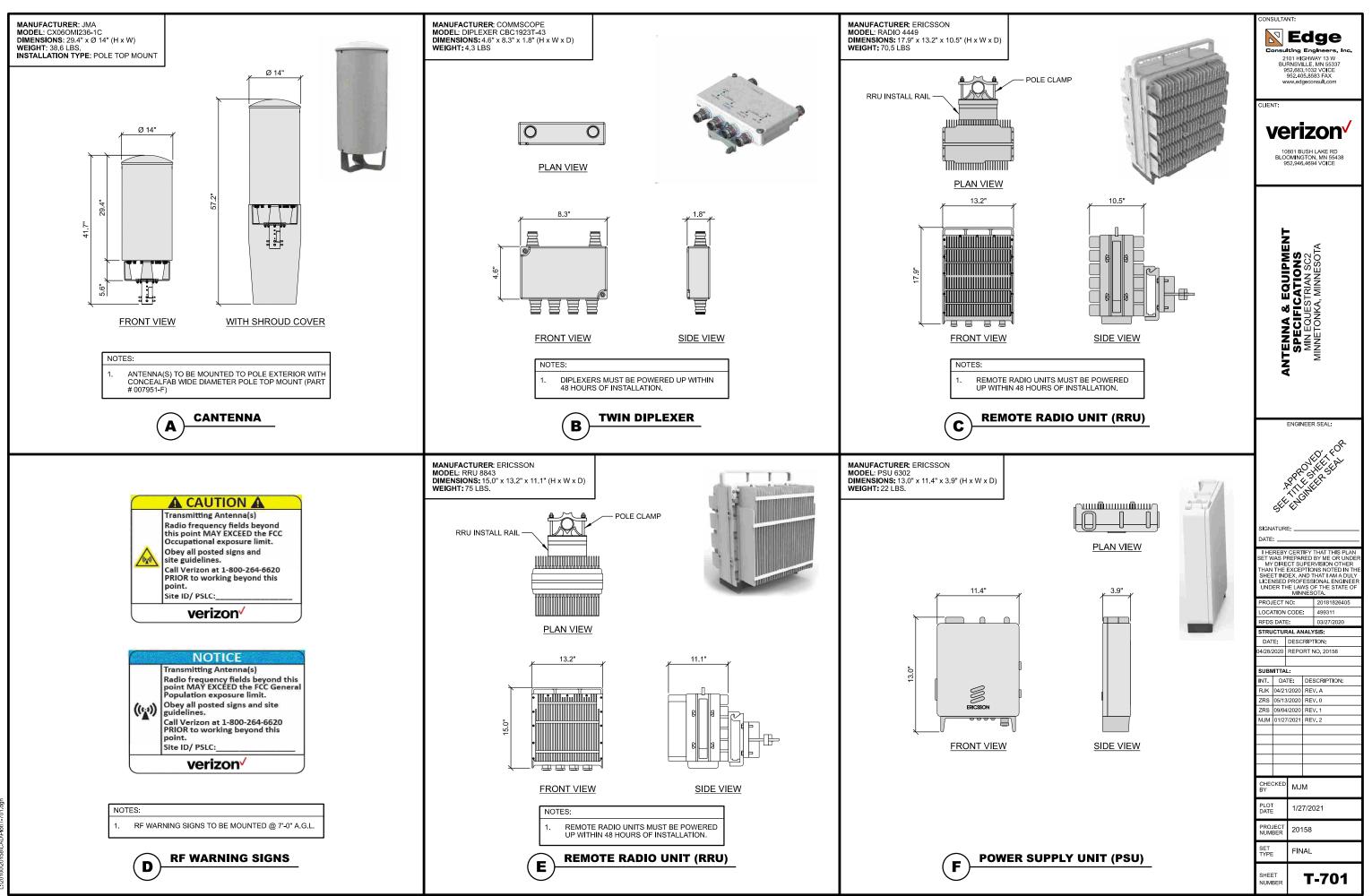
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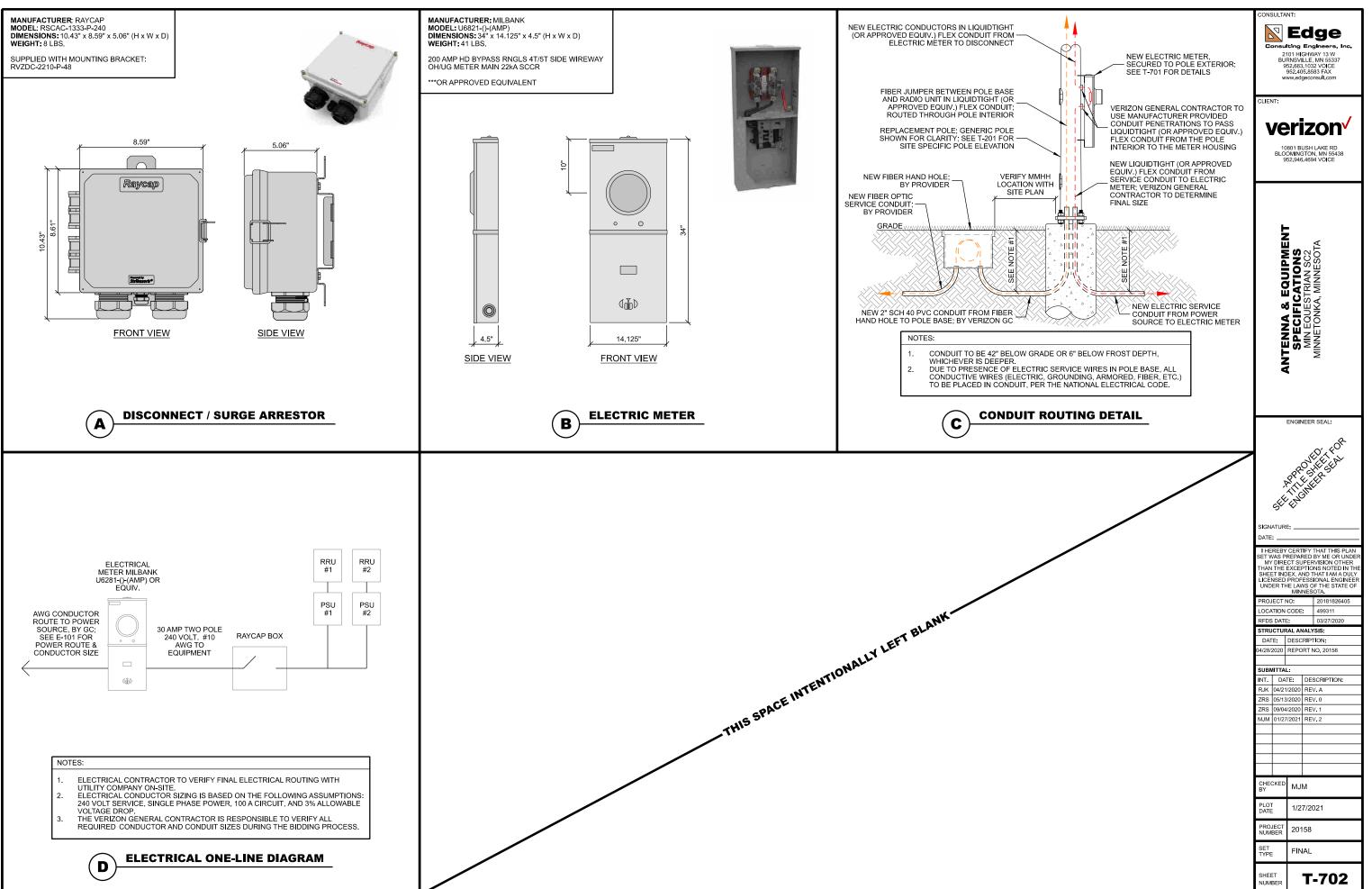


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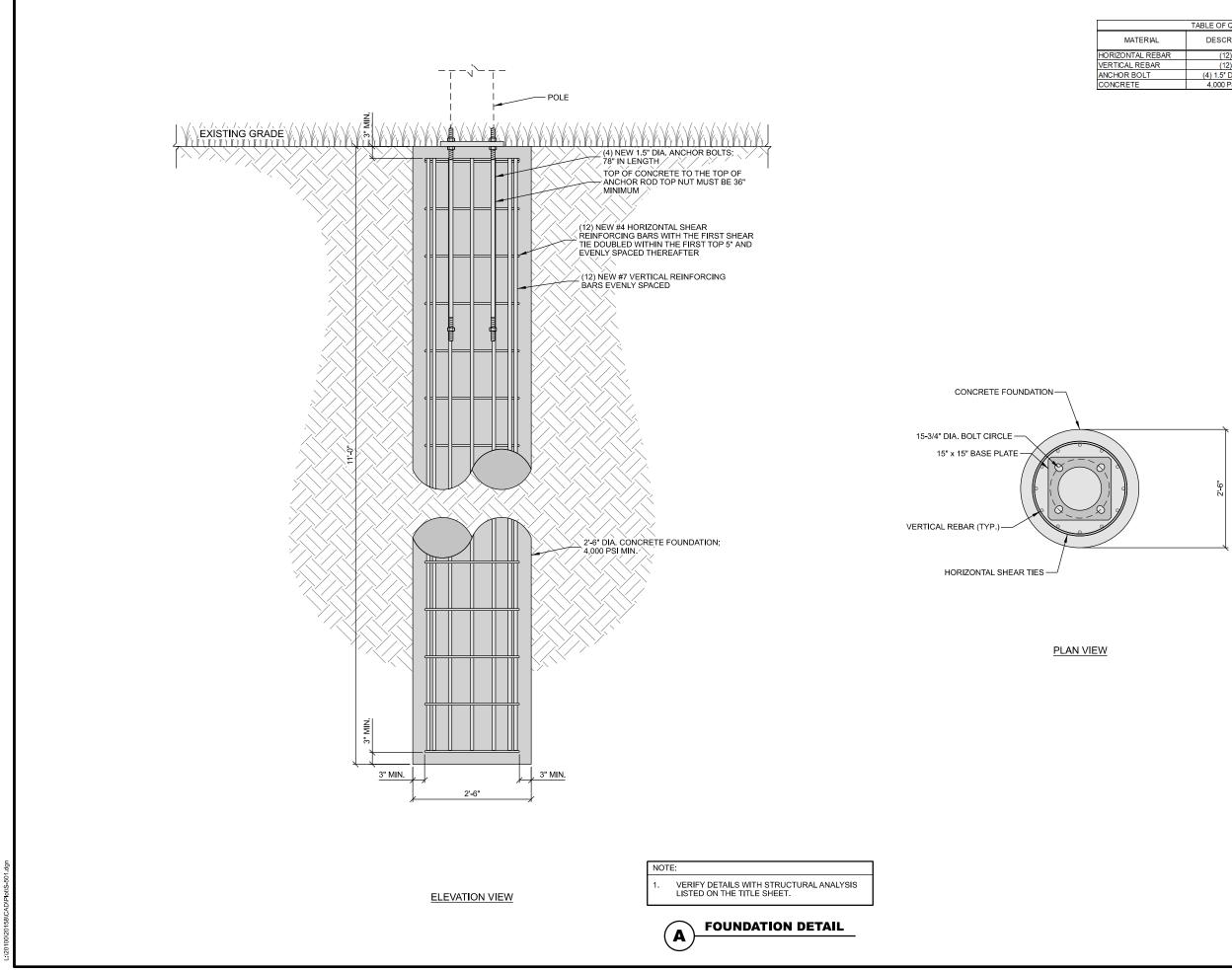
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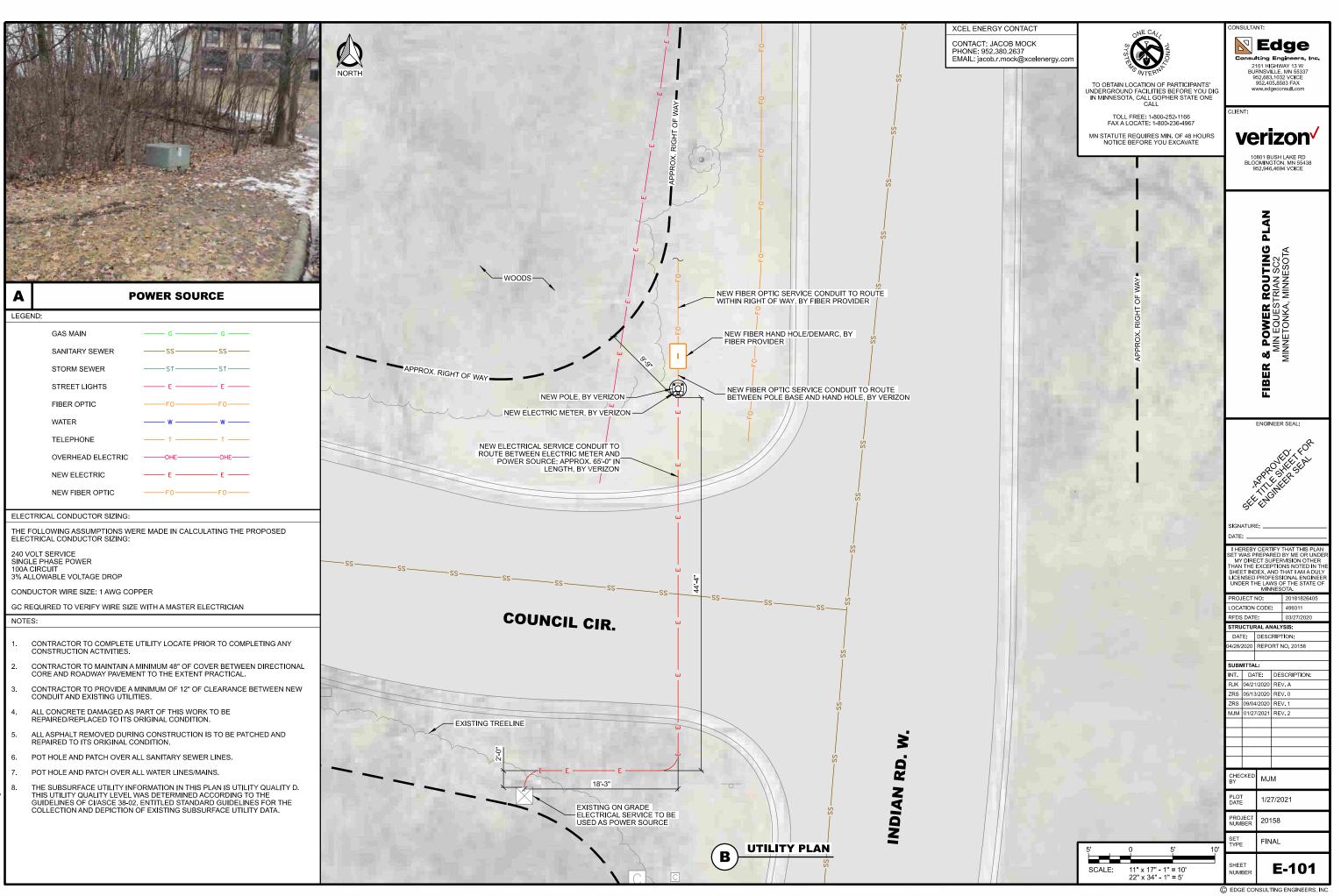
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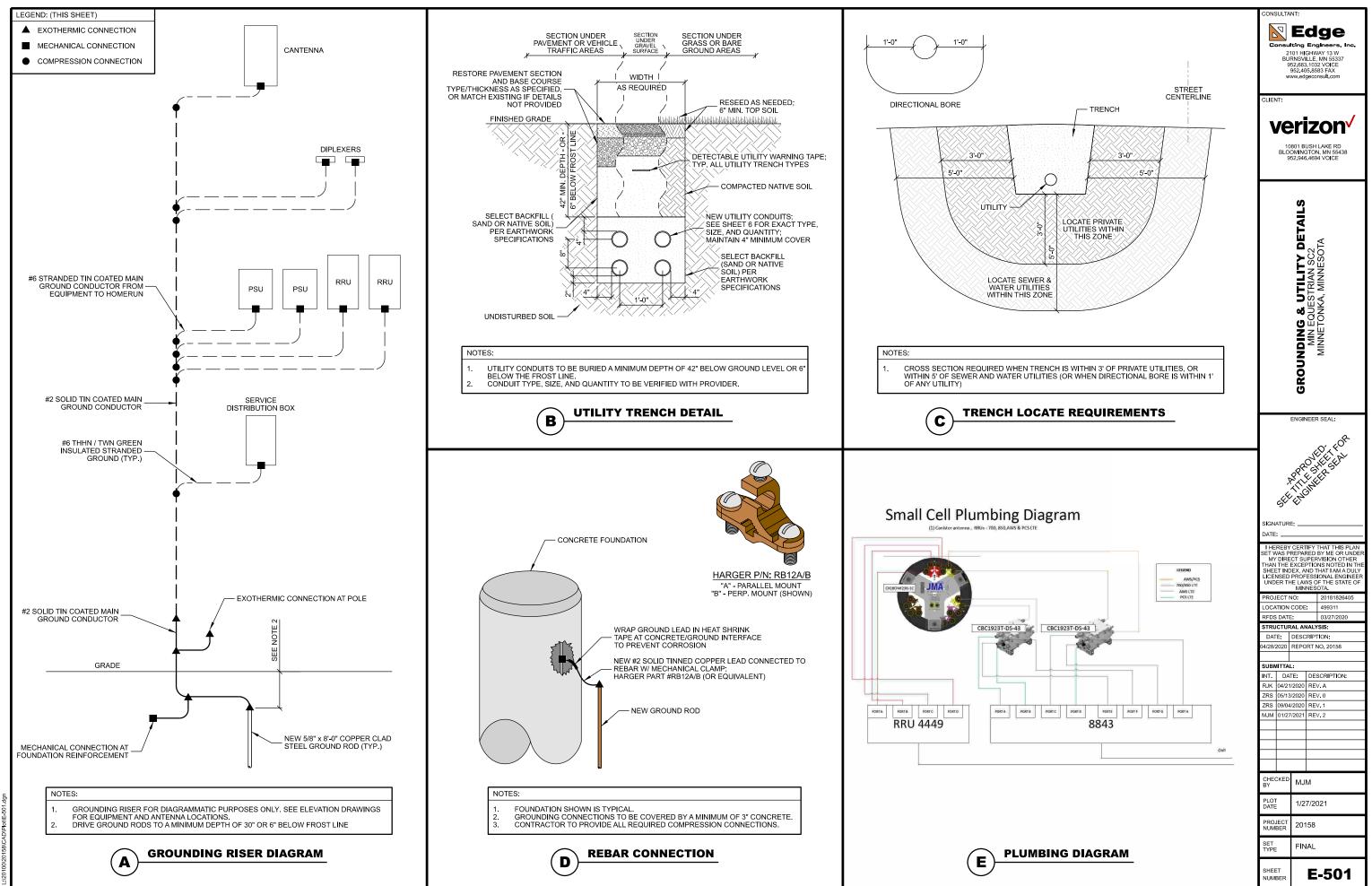
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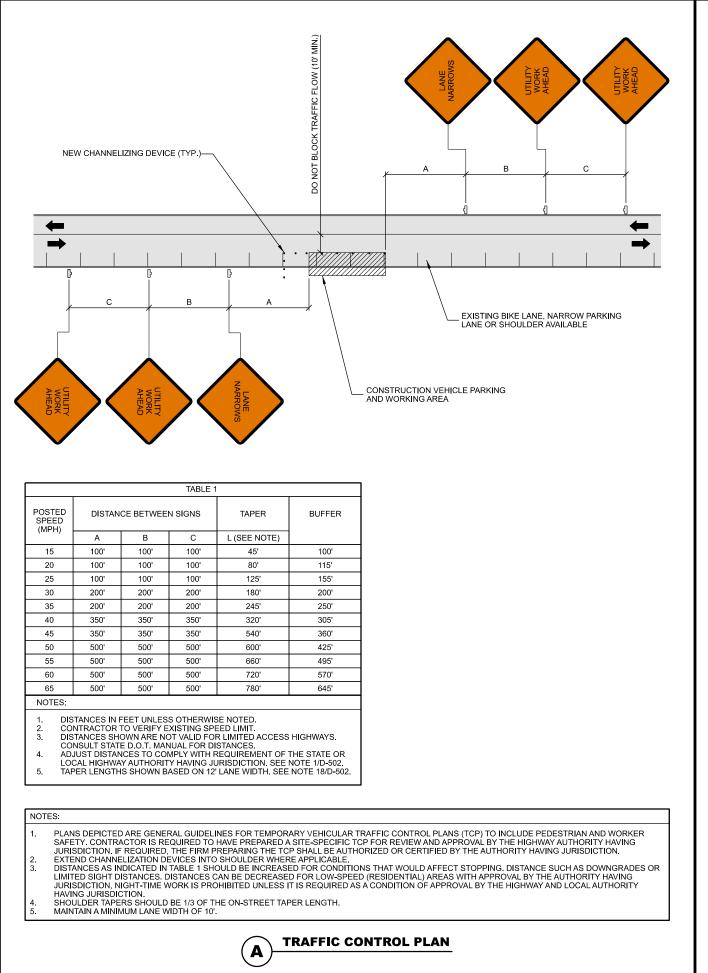
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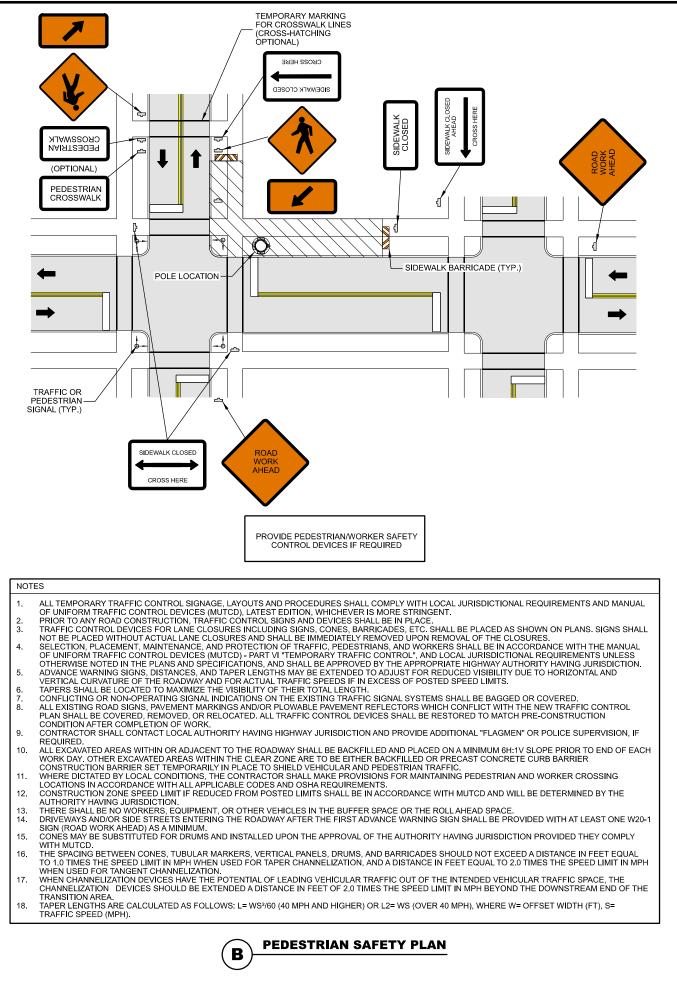
TABLE OF QUANTITIES							
MATERIAL	DESCRIPTION	SUPPLIED BY					
ZONTAL REBAR	(12) #4	CONTRACTOR					
ICAL REBAR	(12) #7	CONTRACTOR					
IOR BOLT	(4) 1.5" DIA. x 78"	EDGE					
CRETE	4,000 PSI MIN.	CONTRACTOR					





C EDGE CONSULTING ENGINEERS, INC





Consulting Engineers, Inc. 2101 HIGHWAY 13 W BURNSVILLE, MN 5537 952.683.1032 VOICE 952.405.8883 FAX www.edgeconsult.com							
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C EDGE CONSULTING ENGINEERS. INC

GEI	NERAL REQUIREMENTS	1.9	FOUNDATION NOTES	Α.	ALL FINISHED SURFACES SHOULD BE GRAD
1.1	PURPOSE AND INTENT	А.	THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS	в	DITCHING AND ROUTING OF SURFACE WAT
A.	THE DRAWINGS ARE SUPPLEMENTAL TO ANY WRITTEN SPECIFICATIONS OR REQUIREMENTS. SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED IN ONE AND NOT THE OTHER, OR IF ANY DISCREPANCIES OR DISAGREEMENTS ARE IDENTIFIED, THIS SHOULD BE BROUGHT TO THE ATTENTION		PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR THE PROPER FIT AND CLEARANCE IN THE FIELD. CONTACT EDGE CONSULTING ENGINEERS, INC. IF ANY DISCREPANCIES EXIST. DO NOT SCALE DRAWINGS	В.	CONTRACTOR SHALL USE ON-SITE MATERI CROSS SECTIONS SHOWN ON THE DRAWIN WET SOIL, FROZEN SOIL, OR POOR SOIL BE IMPORTED) SHALL BE ADEQUATELY COMPA
в.	OF THE OWNER AND/OR ENGINEER. THE CONTRACTOR SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.	в.	DO NOT SCALE DRAWINGS THIS DRAWING IS NOT VALID IF LOADS OTHER THAN THOSE CONSIDERED IN THE STRUCTURAL ANALYSIS ARE TO BE ADDED OR REMOVED FROM THE STRUCTURE UNLESS APPROVED IN WRITING BY EDGE CONSULTING ENGINEERS. INC.	C.	THE CONTRACTOR SHALL LIMIT ALL SITE G THIS IS NOT POSSIBLE, CONTACT THE PRO WORKING OUTSIDE THE ABOVE LIMITS.
1.2 A.	CONFLICTS THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL MEASUREMENTS AT THE SITE BEFORE	C.	THE DRAWINGS REPRESENT THE FINISHED STRUCTURE UNLESS NOTED OTHERWISE. THE DRAWINGS DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES AND PRACTICES.	D.	REGARDLESS OF THE CONTOURS DEPICTE DRAWINGS (INCLUDING THE MINIMUM SOIL FOUNDATION EARTHWORK
	ORDERING MATERIALS OR DOING ANY WORK. NO EXTRA COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS SHOWN ON THE PLANS. CONTRACTOR MUST SUBMIT NOTICE OF ANY DISCREPANCY IN DIMENSIONS TO OWNER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK IN THE AFFECTED AREAS.	D.	THE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS OR EQUIPMENT FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR STRUCTURAL STABILITY DURING	2.5 A.	ALL SUBTERRANEAN STRUCTURE, UTILITIE LOCATED AND MARKED BY CONTRACTOR F MAINTAIN MARKERS UNTIL EXCAVATION AC
в.	THE CONTRACTOR IS REQUIRED TO VISIT THE SITE TO ASSESS CONDITIONS PRIOR TO BIDDING. IN ADDITION, CONTRACTOR SHALL PERFORM TESTING AND ADDITIONAL INVESTIGATION AS DEEMED NECESSARY TO SUBMIT A FIXED BID. IGNORANCE OF THE SITE OR PROJECT CONDITIONS WILL NOT BE GROUNDS FOR CHANGE ORDERS OR ALTERING THE SCHEDULE.		CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, ERECTION PROCEDURES AND SEQUENCE, SHORING, BRACING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS TO SAFELY PERFORM THE WORK SHOWN ON THE DRAWINGS.	В.	CONFLICTS ARE DISCOVERED BEFORE OR ENGINEER IMMEDIATELY. BEFORE PLACING FOOTING, FOUNDATIONS
C.	THE CONTRACTOR MUST PROVIDENS ON ALTERING THE SCHEDDLE. THE CONTRACTOR MUST PROVIDE NOTICE IN WRITING ON PROPER FORMS OF ANY POTENTIAL CLAIM FOR CONCEALED OR UNKNOWN CONDITIONS, OR ANY OTHER ITEM (EVEN IF A REQUEST BY OWNER) THAT MAY RESULT IN A TIME DELAY OR COST CHANGE WITHIN 1 DAY OF FIRST KNOWLEDGE. ANY	E.	BEFORE PROCEEDING WITH ANY WORK ADJACENT TO OR WITHIN THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS, DURING THE PROCESS OF CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE EXISTING STRUCTURE WHERE THE EXISTING STRUCTURE IS MODIFIED TO	C.	AND INSPECTED AS REQUIRED. WHERE STRUCTURES DERIVE SUPPORT FR SLAB-ON-GRADE, FILL SHALL BE COMPACTE
	CLAIM (CHANGE ORDER) MUST BE APPROVED BY THE OWNER PRIOR TO PROCEEDING OR INCURRING ANY COSTS. ANY CHANGES IN SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL BY THE OWNER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS ON THE CONTRACTOR AND ANY ASSOCIATED COST INCURRED WILL NOT BE PAID.	F.	ACCOMMODATE NEW CONSTRUCTION AND FOR PROTECTING FROM DAMAGE THOSE PORTIONS OF THE EXISTING STRUCTURE WHICH ARE TO REMAIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ON-SITE SAFETY ASSOCIATED WITH THE WORK TO BE PERFORMED, ALL SAFETY REQUIREMENTS AS DICTATED BY OSHA AND THE LOCAL	D.	(ASTM 1557). NO FILL SHALL BE PLACED OVER FROZEN, BE PLACED OVER A PREVIOUS LIFT THAT H.
1.3	CLEANUP		JURISDICTION'S SHALL BE FOLLOWED.	E.	BACKFILL AGAINST FOUNDATION/ANCHORS OF THE STRUCTURE BEGINS.
A.	THE CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATION OF WASTE CAUSED BY EMPLOYEES. AT THE COMPLETION OF THE WORK, REMOVE ALL WASTE AND NON-CONSTRUCTION MATERIAL, INCLUDING ALL CONTRACTOR TOOLS. LEAVE THE SITE CLEAN AND READY FOR USE.	G.	IT SHOULD BE UNDERSTOOD THAT THE CONTRACTOR IS THE GUARANTOR OF ALL WORK AND RESPONSIBLE TO CONSTRUCT THE STRUCTURE SITE ACCORDING TO APPLICABLE PLANS, SPECIFICATIONS AND STANDARDS.	F.	BACKFILL SHALL BE COMPACTED UNIFORM COMPACTION.
В.	IF CLEARING IS REQUIRED, ALL BRUSH, STUMPS, AND OTHER WASTE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. THE OWNER SHALL BE CONSULTED FOR	н.	SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.	G.	BACKFILL SHALL BE NATIVE SOIL; IMPORTE ENGINEER AND STRUCTURAL ENGINEER PF
	SPECIFICATIONS ON TREE PLACEMENT AND DISPOSAL. IF REQUIREMENTS ARE NOT SPECIFIED, A CONSERVATIVE ASSUMPTION SHALL BE UTILIZED FOR BIDDING PURPOSES.	I.	ALL MATERIALS, WORKMANSHIP, AND DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE BUILDING CODE.		ENCHING
C.	THE SITE SHALL BE LEFT IN A CONDITION EQUIVALENT TO THE PRE-CONSTRUCTION CONDITION AND SATISFACTORY TO THE OWNER.	J.	ALL PROPOSED INSTALLATIONS SHALL NOT DENY OR INTERFERE WITH ACCESS TO ANY OPERATIONAL OR SAFETY EQUIPMENT/APPURTENANCES.	3.1	MATERIALS FILL MATERIALS SHALL BE OBTAINED, WHE
1.4	CODES	EA	RTHWORK		TRENCHES ON-SITE. STRUCTURAL FILL, SA CONSTRUCTION MANAGER AND SHALL CON
Α.	CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND RULES. THIS RESPONSIBILITY IS IN EFFECT REGARDLESS OF WHETHER THE LAW,	2.1	SCOPE OF WORK		FILL MATERIAL SHALL CONTAIN NO ORGANI OF OBJECTIONABLE MATERIALS AND/OR M/
	ORDINANCE, REGULATION OR RULE IS MENTIONED IN THE DRAWINGS OR WRITTEN SPECIFICATIONS. IN ADDITION TO ALL CODES, CONTRACTOR SHALL FOLLOW ALL MANUFACTURER RECOMMENDATIONS AND APPLICABLE STANDARDS (ACI, IBC, NEC, ETC).		REFER TO THE SURVEY AND SITE PLAN FOR EXISTING GRADES AND FINAL ELEVATIONS.		HAZARDOUS. THE FILL MATERIAL SHALL CO MATERIAL. COMPACTION OF SOIL SHALL BE COMPACTION EQUIPMENT OR 6 INCH LOOS
1.5	QUALITY ASSURANCE	2.2 A.	SITE PREPARATION CLEAR TREES, BRUSH AND DEBRIS FROM SITE AREA AS REQUIRED. SEE SITE PLAN FOR	3.2	PIPE DETECTION AND IDENTIFICATION
Α.	THE CONTRACTOR SHALL PROVIDE A PROJECT SCHEDULE PRIOR TO COMMENCING ANY WORK. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CHANGES TO THE SCHEDULE AS	A.	APPROPRIATE AREA TO BE CLEARED. REMOVE DETRIMENTAL MATERIAL COMPLETELY. ALL WASTE MATERIALS INCLUDING, BUT NOT LIMITED TO, STUMPS AND DEBRIS SHALL BE REMOVED FROM THE		ALL ELECTRIC SERVICE TRENCHES SHALL
	SOON AS THEY ARE KNOWN. THE CONTRACTOR SHALL PROVIDE 48-HOUR ADVANCE NOTICE OF SPECIFIC INSPECTION MILESTONES (SUCH AS FOUNDATION POURING). ADVANCE NOTICE WILL ALLOW		PROPERTY AND DISPOSED OF PROPERLY.		
	FOR COORDINATION WITH INSPECTION COMPANIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL REQUEST A LIST OF INSPECTIONS FROM THE OWNER OR ENGINEER. AT A MINIMUM THIS WILL TYPICALLY INCLUDE THE FOUNDATION, OR ON THE OWNER OF THE AND THE ADDRESS OF THE OWNER OF THE FOUNDATION,	В.	PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, CONTRACTOR SHALL REMOVE ALL TOPSOIL, ORGANIC MATERIALS AND WET OR POOR SOILS. IF MORE THAN 2'-0" OF POOR SOILS ARE ENCOUNTERED, CONTRACTOR SHOULD IMMEDIATELY CONTACT CONSTRUCTION MANAGER AND/OR ENGINEER FOR GUIDANCE.	A.	DIG TRENCH TO DEPTHS AND GRADES SHO MANAGER. USE HAND EXCAVATION METHO WHEN NECESSARY TO AVOID ENDANGERIN
В.	GROUNDING, SUBSTANTIAL COMPLETION, AND FINAL. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF ALL COMPLETED WORK AND PROVIDE THESE TO	2.3	EXCAVATION	В.	TRENCH LENGTH SHALL BE SUFFICIENT TO INSPECTION OF THE PROJECT, WITHOUT EI FACILITIES.
	THE OWNER ON A WEEKLY BASIS. PHOTOGRAPHS SHALL INCLUDE DOCUMENTATION OF ALL SUBGRADE WORK THAT CANNOT BE VISIBLY INSPECTED UPON COMPLETION (GROUNDING,	Α.	CONTRACTOR SHALL EXCAVATE TO DEPTH, AND GRADES SHOWN ON THE PLANS.	c.	DISPOSE OF EXCESS AND UNSUITABLE EXC
C.	FOUNDATION, UTILITIES, ETC.). THE CONTRACTOR IS THE GUARANTOR OF ALL WORK. FAILURE TO IDENTIFY A DISCREPANCY/DEFECT		MINIMUM COMPACTION SHALL BE 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557 FOR SITE WORK AND 95% MAXIMUM DRY DENSITY UNDER STRUCTURAL ELEMENTS. AREAS OF SETTLEMENT IDENTIFIED WITHIN ONE YEAR OF ACCEPTANCE OF FINAL CONSTRUCTION BY OWNER	3.4	TRENCH PROTECTION
J.	OR IMMEDIATELY NOTIFY THE OWNER/ENGINEER OF SAID DEFECT DOES NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITIES IN THIS REGARD.		WILL BE EXCAVATED, FILLED, AND RECOMPACTED AT CONTRACTOR'S EXPENSE.	A.	PROVIDE MATERIALS, LABOR, AND EQUIPM
D.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT INSPECTIONS OCCUR PRIOR TO COMPLETION OF WORK. IF AN ITEM IS COMPLETED WITHOUT THE REQUESTED INSPECTION, THE	В.	CONTRACTOR SHALL REVIEW AVAILABLE GRADING PLANS, GEOTECHNICAL REPORT, AND FOUNDATION PLANS THOROUGHLY PRIOR TO BIDDING. ANY DISCREPANCIES OR INCONSISTENCIES SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.	В. 3.5	SHEETING AND BRACING SHOULD MEET OF BACKFILLING
16	OWNER WILL HAVE THE RIGHT TO ASSUME THAT THE WORK WAS NOT COMPLETED PROPERLY AND MUST BE REPLACED. BUILDING PERMITS	C.	IT IS RECOMMENDED THAT THE OWNER HIRE AN INDEPENDENT GEOTECHNICAL ENGINEER TO REVIEW SOIL CONDITIONS AND AN ACI CERTIFIED INSPECTOR TO REVIEW ALL FOUNDATION ELEMENTS.	Α.	CONTRACTOR SHALL NOTIFY THE CONSTRU BACKFILLING.
1.0	THE CONTRACTOR IS RESPONSIBLE TO OBTAIN THE BUILDING PERMIT. CONTRACTOR SHALL COORDINATE AND SCHEDULE REQUIRED INSPECTIONS AT THE JOB SITE, COMPLY WITH SPECIFIC PROJECT RELATED REQUESTS AND SUGGESTIONS MADE BY BUILDING INSPECTOR, AND INFORM THE	D.	REGARDLESS OF THE ABOVE RECOMMENDATION, THE CONTRACTOR IS RESPONSIBLE TO OBSERVE SITE AND SOIL CONDITIONS THROUGHOUT THE CONSTRUCTION PROCESS AND COMPARE THE ABOVE TO THE GEOTECHNICAL REPORT, THE PLANS, AND THE STRUCTURE DRAWINGS. ANY	В.	PROTECT CONDUIT FROM LATERAL MOVEM AVOID DISPLACEMENT OF CONDUIT AND/OF UNTIL THERE IS AT LEAST 12 INCHES OF CC
4 -	OWNER OF ANY REQUIREMENTS THAT MAY DEVIATE FROM THE CONSTRUCTION DOCUMENTS.		INCONSISTENCIES, DISCREPANCIES, OR ASSUMPTIONS THAT PROVE TO BE INCORRECT, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.	3.6	
1.7	SITE SECURITY THE CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY THROUGHOUT THE CONSTRUCTION PHASE. THE SITE MUST BE SECURELY FENCED (PERMANENTLY OR TEMPORARILY) WITHIN 24 HOURS OF EQUIPMENT ERECTION.	2.4 A.	SITE GRADING CONTRACTOR SHALL USE ON-SITE MATERIALS OR IMPORTED FILL TO MATCH THE LINES, GRADES, AND CROSS SECTIONS SHOWN ON THE DRAWINGS. HOWEVER, IN NO CASE SHALL ORGANIC	Α.	COMPACT BACKFILL TO AT LEAST 95% STAN NOT OBTAINED, REMOVE BACKFILL FROM T RECOMPACT AS SPECIFIED. ANY SUBSEQUI MAINTENANCE PERIOD (1 YEAR MINIMUM) S CONTRACTOR AT NO ADDITIONAL EXPENSE
1.8 A.	SITE CONTROL THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF		MATERIALS, WET SOIL, FROZEN SOIL, OR POOR SOIL BE USED AS ON-SITE FILL. IN ADDITION, ALL FILL (ON-SITE OR IMPORTED) SHALL BE ADEQUATELY COMPACTED PER THE EARTHWORK SPECIFICATIONS.	в.	ANY SUBSEQUENT SETTLEMENT OF TRENC MINIMUM) SHALL BE REMOVED, REPLACED, EXPENSE TO OWNER.
	EROSION AT THE SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO OWNER. THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY	В.	THE CONTRACTOR SHALL LIMIT ALL SITE GRADING AND CONSTRUCTION ACTIVITIES TO SITE AREA. IF THIS IS NOT POSSIBLE, CONTACT THE PROJECT MANAGER AND OBTAIN OWNER APPROVAL PRIOR TO WORKING OUTSIDE THE ABOVE LIMITS.	со	NCRETE WORK
	DAMAGE TO STRUCTURES OR THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF CONTRACTOR.	C.	IT IS RECOMMENDED THAT THE OWNER HIRE AN INDEPENDENT GEOTECHNICAL ENGINEER TO	4.1	CONCRETE FORMWORK
в.	IF WETLANDS ARE PRESENT IN THE PROJECT VICINITY THE CONTRACTOR IS RESPONSIBLE TO TAKE	1	REVIEW SOIL CONDITIONS AND AN ACI CERTIFIED INSPECTOR TO REVIEW ALL FOUNDATION ELEMENTS.	Α.	CONTRACTOR SHALL FOLLOW ALL APPLICA
	ALL NECESSARY PRECAUTIONS TO ENSURE THAT THEY ARE NOT DISTURBED IN ANY MANNER. IF DISTURBANCE OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND CONSEQUENCES, INCLUDING FINES (EVEN IF ASSESSED TO THE OWNER).	D.	REGARDLESS OF THE ABOVE RECOMMENDATION, THE CONTRACTOR IS RESPONSIBLE TO OBSERVE SITE AND SOIL CONDITIONS THROUGHOUT THE CONSTRUCTION PROCESS AND COMPARE THE ABOVE TO THE GEOTECHNICAL REPORT, THE PLANS, AND THE STRUCTURE DRAWINGS. ANY	В.	FORMS SHALL BE SMOOTH AND FREE OF S FROM RELEASE AGENTS AS NECESSARY. U FORMS, INCLUDING THOSE CONCEALED OF
C.	THE CONTRACTOR SHALL CONTAIN ALL CONSTRUCTION ACTIVITIES, MATERIALS, EQUIPMENT, ETC. TO THE LEASED AREA AND LEGAL EASEMENTS UNLESS PERMISSION TO DO OTHERWISE IS GRANTED BY THE PROPERTY OWNER.	2.4	INCONSISTENCIES, DISCREPANCIES, OR ASSUMPTIONS THAT PROVE TO BE INCORRECT, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.	C.	EXPOSED EDGES OF ALL FOUNDATIONS SH SHALL RECEIVE A TOOLED RADIUS FINISH.
		2.4	SITE GRADING	D.	REFER TO PLANS AND DRAWINGS FOR ADD

GRADED TO DRAIN FROM FOUNDATION, PROVIDER PROPER WATER, AND AVOID PONDING AND EROSION.	CONS		т:		
TERIALS OR IMPORTED FILL TO MATCH THE LINES, GRADES, AND AWINGS. HOWEVER, IN NO CASE SHALL ORGANIC MATERIALS, IL BE USED AS ON-SITE FILL. IN ADDITION, ALL FILL (ON-SITE OR MPACTED PER THE EARTHWORK SPECIFICATIONS.	Ca	210 BURN	Ing Eng 1 HIGHW/ NSVILLE, I	MN 55337	ļ
TE GRADING AND CONSTRUCTION ACTIVITIES TO SITE AREA. IF PROJECT MANAGER AND OBTAIN OWNER APPROVAL PRIOR TO		95	2.683.1032 2.405.858 v.edgecon	3 FAX	
ICTED IN THE PLANS, ALL REQUIREMENTS IN THE FOUNDATION SOIL COVER) MUST BE ADHERED TO STRICTLY.	CLIEN		riz	on√	
LITIES, PIPING, ETC. IN THE AREA OF EXCAVATIONS SHALL BE OR PRIOR TO EARTH REMOVAL WORK. CONTRACTOR SHALL N ACTIVITIES HAVE CEASED. IF UNDERGROUND UTILITY : OR ENCOUNTERED DURING EXCAVATION, NOTIFY THE		BLOOM	01 BUSH L MINGTON 2.946.4694	, MN 55438	
ONS OR SLAB-ON-GRADE, THE SUB-GRADE SHALL BE PREPARED					
RT FROM FILL-SUPPORTED FOUNDATIONS AND AT ACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY					
EN, MUDDY, OR OTHER DELETERIOUS MATERIAL. NO FILL SHALL AT HAS NOT BEEN ADEQUATELY COMPACTED.			5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IESOIA	
ORS SHALL BE COMPLETED BEFORE ERECTION/MODIFICATION					
ORMLY AROUND THE FOUNDATION IN LIFTS TO MINIMUM 90%			STR STR	≥ Ý	
RTED FILL SHALL BE VERIFIED WITH THE GEOTECHNICAL R PRIOR TO BACKFILLING.			GENERAL NOTE MIN EQUESTRIAN SC		
VHEN POSSIBLE, FROM MATERIALS EXCAVATED FROM , SAND OR SLURRY SHALL BE APPROVED BY THE CONFORM TO LOCAL UTILITY COMPANY REQUIREMENTS. THE 3ANIC MATERIALS OR ROCKS, ALL FILL MATERIAL SHALL BE FREE R MATERIALS DESIGNATED AS HAZARDOUS OR POTENTIALLY L CONTAIN FINES SUFFICIENT TO FILL ALL VOIDS IN THE L BE IN 8 INCH LOOSE LIFTS WHEN UTILIZING HEAVY OOSE LIFTS WHEN UTILIZING HEAVY OOSE LIFTS WHEN UTILIZING HEAVY			NGINEER		
ALL BE MARKED WITH DETECTABLE WARNING TAPE.		Ó	RROWE		
SHOWN ON THE PLANS OR AS DIRECTED BY THE CONSTRUCTION THODS WHEN REQUIRED BY LOCAL OR STATE GUIDELINES, OR ERING EXISTING OR NEW STRUCTURES OR OTHER FACILITIES		CHINGS IN C	TL'HE	Ŷ	
T TO ALLOW FOR SATISFACTORY CONSTRUCTION AND IT ENDANGERING OTHER CONSTRUCTION WORK OR ADJACENT	SIGN/ DATE:	ATURE:			
EXCAVATION MATERIAL PROPERLY.	SET W MY THAN	AS PRE DIREC THE EX	EPARED E	HAT THIS PLA BY ME OR UND ISION OTHER IS NOTED IN T HAT I AM A DUL	
IPMENT NECESSARY TO PROTECT TRENCHES AT ALL TIMES.	LICEN	ISED PI	ROFESSI	ONAL ENGINE	ER
T OR EXCEED OSHA REQUIREMENTS.		ECT NC		20181826405 499311	
STRUCTION MANAGER AT LEAST 24 HOURS IN ADVANCE OF		DATE: CTURA	LANALY	03/27/2020 SIS:	
	DAT 04/28/2		ESCRIPTI EPORT N		_
VEMENT, DAMAGE FROM IMPACT, OR UNBALANCED LOADING TO D/OR STRUCTURES. DO NOT FREE FALL BACKFILL INTO TRENCH 5 COVER OVER THE CONDUIT.	SUBM	IITTAL:			_
	INT. RJK	DATE 04/21/2	: DES 020 REV	CRIPTION:	-
STANDARD PROCTOR. IF REQUIRED COMPACTION DENSITY IS OM TRENCH, REPLACE WITH APPROVED BACKFILL, AND EQUENT SETTLEMENT OF TRENCH OR BACKFILL DURING IM) SHALL BE REMOVED, REPLACED, AND RECOMPACTED BY NSE TO OWNER.	ZRS ZRS		020 REV 020 REV	. 0	
INSE TO OWNER. ENCH OR BACKFILL DURING MAINTENANCE PERIOD (1 YEAR CED, AND RECOMPACTED BY CONTRACTOR AT NO ADDITIONAL					
	CHEC BY	KED	мјм		
LICABLE CODES AND STANDARDS (IBC,ACI, ETC.)	PLOT DATE		1/27/20	21	
DF SURFACE IRREGULARITIES. CONTRACTOR SHALL UTILIZE RY. UPON COMPLETION, CONTRACTOR SHALL REMOVE ALL	PROJ NUME		20158		
D OR BURIED. S SHALL RECEIVE A 3/4" CHAMFER. OTHER EXPOSED EDGES	SET TYPE		FINAL		_
ADDITIONAL REQUIREMENTS.	SHEE		R	-001	

_		-		-	
4.2	CONCRETE REINFORCEMENT	ST	RUCTURAL STEEL		AS OTHERWISE REQUIRED.
	MATERIAL PROPERTIES (U.N.O) SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE: f =4,000 psi SPECIFIED YIELD STRENGTH OF CONCRETE REINFORCEMENT: f =60,000 psi	5.1 A.	GENERAL REQUIREMENTS STRUCTURAL STEEL DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE AISC 13TH	I.	COMPLETE JOB SHALL BE GUARANTEED F ACCEPTANCE BY OWNER. ANY WORK, MAT PERIOD SHALL BE CORRECTED AT ONCE, U
Α.	ALL BAR LAPS SHALL CONFORM TO ACI 318 CLASS "B" SPLICE CRITERIA. USE TO BAR LAP LENGTHS FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP.			J.	CONTRACTOR. UPON COMPLETION OF WORK, CONDUIT C
	MINIMUM BAR LAPS AS FOLLOWS U.N.O.:	В.	MATERIAL PROPERTIES ARE TO BE AS INDICATED BELOW UNLESS NOTED OTHERWISE. W-SHAPES Fy = 50 KSI (A992 OR A 572 Gr 50)		GROUNDING TESTS ARE REQUIRE FOR APP ENGINEER. CLEAN PREMISES OF ALL DEBR
	#3:1'-4" #4:1'-4" #5:1'-10" #6:2'-7" #7:4'-2" #8:5'-2" #8:6'-4" #10: 7'-8" #11:9'-0"		C-SHAPES & ANGLES Fy = 36 KSI (A36) PLATES & BARS Fy = 36 KSI (A36)	к.	COMPLETE AND UNDAMAGED CONDITION. PROVIDE 2 PULL STRINGS SECURELY FAST
	#0.5-2 #0.5-4 #10.7-6 #11.9-0 FOR EPOXY COATED BARS, PROVIDE 1.5 TIMES THE INDICATED LAP LENGTH. FOR TOP BARS PROVIDE 1.3 TIMES THE INDICATED LAP LENGTH.		SQUARE TUBES     Fy = 46 KSI (A500 Gr B)       ROUND TUBES     Fy = 35 KSI (A53 TYPE S, Gr B)       RODS     Fy = 36 KSI (A36)	<b>r</b> .	(C.O.) SHALL HAVE A PULL WIRE OR ROPE. ALL MATERIALS UTILIZED SHALL BE U.L. LIS
в.	LAP LENGTH SHALL BE SPECIFICALLY NOTED ON SHOP DRAWINGS WHERE MORE THAN ONE BAR	c.	ANCHOR RODS Fy = 55 KSI (F1554-Gr 55) STEEL BEAMS WITH RESIDUAL CAMBER RESULTING FROM MILL FABRICATION OR ROLLING SHALL BE	_	WITH PERMANENT ENGRAVED PLASTIC LAI
C.	MAKES UP A CONTINUOUS STRING. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315. ALL REINFORCEMENT BARS SHALL	0.	SHOP FABRICATED AND ERECTED SUCH THAT THIS RESIDUAL CAMBER COUNTERACTS GRAVITY LOAD DEFLECTION.	М.	EACH CONDUCTOR OF EVERY SYSTEM SH, PULLBOX, J-BOX, SWITCH BOX, ETC. IN CO (O.S.H.A.)
	BE FABRICATED IN ACCORDANCE WITH THE LATEST CRSI MANUAL OF STANDARD PRACTICE AND SHALL BE CLEAN AND FREE OF GREASE AND SCALING RUST.	5.2 A.		N.	ALL MATERIALS AND EQUIPMENT SHALL BE SHALL BE OF THE BEST GRADE AND OF TH
D.	PROVIDE HOT/COLD WEATHER PROCEDURES AND PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS.	А.	MINIMUM BOLT EDGE DISTANCES ARE TO BE THE LARGER OF THE EXISTING CONDITION OR THE TABLE PROVIDED BELOW UNLESS APPROVED BY THE ENGINEER.   BOLT DIAMETER (IN) 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 >11/4   BOLT DIAMETER (IN) 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 >11/4		OR GROUP OF EQUIPMENT. MATERIALS SH LABORATORY AND SHALL BEAR THE INSPE MATERIALS SHALL MEET WITH APPROVAL (
E.	CONCRETE REINFORCEMENT PROTECTION/CLEAR COVER, U.N.O.: FOOTINGS: ALL SIDES 3"	в.	MIN. EDGE DISTANCE 3/4 7/8 1 1/8 1 1/4 1 1/2 1 5/8 1.25 x d ALL CONNECTION BOLTING IS TO BE WITH A-325N BOLTS UNLESS NOTED OTHERWISE. BOLTS NEED		GOVERNING BODIES HAVING JURISDICTIO WITH APPLICABLE STANDARDS ESTABLISH
	PIERS: ALL SIDES 3"		ONLY BE TIGHTENED TO THE SNUG-TIGHT CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN	О.	USE T-TAP CONNECTIONS ON ALL MULTI-CI
F.	EXTEND ALL PIER STEEL TO PROVIDE STD. HOOK UNDER FOOTING REINFORCEMENT, UNLESS NOTED OTHERWISE.	c.	ORDINARY SPUD WRENCH. U.N.O., POST INSTALLED ANCHORS ARE TO BE HILTI HIT HY 200 ADHESIVE ANCHORS FOR SOLID BASE	P.	ALL CIRCUIT BREAKERS, FUSES AND ELEC NOT LESS THAN THE MAXIMUM SHORT CIR MINIMUM OF 10,000 A.I.C.
G.	SPLICES IN REINFORCEMENT STEEL ARE PROHIBITED, UNLESS APPROVED BY THE STRUCTURAL ENGINEER. ALL SPLICES MUST THEN MEET ALL APPLICABLE ASTM STANDARDS FOR SPLICING.		MATERIAL AS MANUFACTURED BY HILTI FASTENING SYSTEMS OF TULSA, OKLAHOMA OR APPROVED EQUAL. INSTALL ANCHORS WITH EMBEDMENT DEPTHS INDICATED.	Q.	THE ENTIRE ELECTRICAL INSTALLATION SH CODES AND DRAWINGS. GROUND RODS SH
н.	HEATING AND WELDING OF BARS IS PROHIBITED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWG) D.1.1-92. STRUCTURAL WELDING CODE.	5.3	GROUT & FINISHES	R.	WIRE AND CABLE CONDUCTORS SHALL BE PERMITTED UNLESS SPECIFICALLY NOTED
4.3	CAST-IN-PLACE CONCRETE	А.	U.N.O., NON-SHRINK GROUT SHALL BE A NON-METALLIC PREMIXED FORMULATION EQUIVALENT TO MASTERFLOW 713 PLUS BY DEGUSSA BUILDING SYSTEMS. BEAM AND LINTEL PLATES SHALL BE FULLY	s.	METER SOCKET AMPERAGE, VOLTAGE, AN
A.	ANY NON-STRUCTURAL SITE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CONCRETE SUBJECT TO FREEZE-THAW SHALL CONTAIN 4-8% AIR ENTRAINMENT.		GROUTED WITH A MINIMUM 1/2" NON-SHRINK GROUT. COLUMN BASE PLATES SHALL BE FULLY GROUTED WITH A MINIMUM OF 1 1/2" NON-SHRINK GROUT.		DRAWINGS. MANUFACTURED BY SQUARE I REQUIRES THE NEW SERVICE TO BE SUB-N BE OF THE 10x OR 16x TYPE.
В.	ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) UNLESS NOTED OTHERWISE. ALL CONCRETE SHALL BE COMPOSED OF PORTLAND CEMENT, TYPE I/II, IN CONFORMANCE WITH ASTM C150, FINE AND COARSE AGGREGATE IN CONFORMANCE WITH ASTM C33, AND WATER IN CONFORMANCE WITH	В.	ALL STEEL FRAMING MEMBERS, CONNECTION PLATES, FASTENERS AND ANCHOR BOLTS EXPOSED TO EARTH OR WEATHER TO HAVE HOT-DIP GALVANIZED FINISH UNLESS OTHERWISE SPECIFIED. APPLY COATING BY THE HOT-DIP PROCESS FOR GALVANIZING ACCORDING TO ASTM A123 OR ASTM A153.	т.	PATCH, REPAIR, AND PAINT ANY AREA THAT ELECTRICAL WORK.
	ASTM C94. EXPOSED EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH % AIR CONTENT. CONCRETE SHALL HAVE A MEASURED SLUMP OF 4" (CONTRACTOR SHALL PERFORM SLUMP TESTS). IF AN ALTERNATIVE MIX DESIGN IS DESIRED. MIX DESIGN SHALL BE SUBMITTED TO ENGINEER FOR	c.	ALL DINGS, SCRAPES, MARS AND WELDS IN THE GALVANIZED AREA SHALL BE COATED WITH A	U.	SERVICE CONDUITS SHALL BE GRAY SCH 4 USED UNDER ROADWAYS AND IN LOCATIOI USING "WIDE SWEEP" (12" MIN. RADIUS) EL
	APPROVAL.		ZINC-RICH PAINT, APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. AFTER ZINC-RICH PAINT IS DRY, OVERCOAT WITH AN APPROPRIATE PAINT WITH		CONDUIT SHALL BE U.L. LABEL, GALVANIZE BELOW GRADE, WITH "SWEEP" ELBOWS (1:
C.	ALL CONCRETE SHALL BE VIBRATE DIN PLACE USING HIGH FREQUENCY, LOW AMPLITUDE MECHANICAL IMMERSION TYPE VIBRATORS. INSERT VIBRATORS IN CONCRETE AT REGULAR INTERVALS AND OVER ENTIRE SURFACE TO SOLIDLY FILL AROUND AND BETWEEN REINFORCEMENT		THE SAME COLOR AS THE EXISTING.		CONDUIT IN CONTACT WITH EARTH SHALL EXTENDING MIN. ABOVE GRADE.
	INTERVALS AND OVER ENTIRE SURFACE TO SOLIDLY FILL AROUND AND BETWEEN REINFORCEMENT AND EMBEDDED ITEMS AND INTO CORNERS AND IRREGULARITIES. DISCONTINUE VIBRATION WHEN RISING ENTRAPPED AIR BUBBLES STOP BREAKING THE LEVELING SURFACE. DO NOT OVERVIBRATE	5.4		V.	INTERIOR CONDUITS SHALL BE ELECTRICA GLAND RING COMPRESSION TYPE.
D.	AS THIS MAY CAUSE SEGREGATION. ALL FORMED CONCRETE SURFACES EXPOSED TO VIEW SHALL HAVE A SURFACE FINISH SF-2.0 IN	A.	ALL WELDING OF NEW STEEL IS TO BE WITH F70XX ELECTRODES, U.N.O. WELDING SHALL BE IN ACCORDANCE WITH THE LATEST AWS SPECIFICATIONS BY CERTIFIED WELDERS AND INSPECTED BY AN AWS CERTIFIED WELDING INSPECTOR.	w.	FLEXIBLE METALLIC CONDUIT SHALL HAVE BY CODE. FITTING SHALL BE "JAKE" OR "SO
_		в.	WHEN FIELD WELDING TO EXISTING STEEL, ADJUST WELDING PROCEDURES AS REQUIRED TO BE		
E.	ALL CONCRETE MIXING, TRANSPORTING, PLACING AND CURING SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION):		COMPATIBLE WITH THE NEW AND EXISTING STEEL.		LE AND ANTENNA INSTALLATION
	"ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONC." "ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" "ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BLDGS." "ACI 307, RECOMMENDED PRACTICE FOR CONCRETE FORM WORK"	C.	ALL WELDING OF GALVANIZED MATERIAL SHALL BE PERFORMED IN SUCH A MANOR AS TO SATISFY ALL OSHA AND AWS REQUIREMENTS. ALL FIELD WELDED LOCATIONS SHALL BE PREPARED AND PRIMED WITH A ZINC-RICH PRIMER PRIOR TO PAINTING PER THE MANUFACTURERS	А.	THAT CONCRETE HAS MET THE MINIMUM S INSPECTION OR TESTING REQUIREMENTS.
F.	ACI 307, RECOMMENDED PRACTICE FOR CONCRETE FORM WORK		RECOMMENDATIONS. THE SPECIFIC PRIMER TO BE USED SHALL BE TNEMEC SERIES 90-97 Tneme-Zinc @ 3.0-4.0 mils DFT OR APPROVED EQUAL.	В.	INSTALL ANTENNAS AND LINES AS INDICATI
G.	ALL DOWELS INTO EXISTING CONCRETE OR SOLID MASONRY TO BE EPOXY AND ANCHORED WITH	EL	ECTRICAL		APPROVED BY THE CONSTRUCTION MANA CREWS EXPERIENCED IN THE ASSEMBLE A SUPPORT STRUCTURE.
н.	HILTI HIT-HY 200 ADHESIVE OR APPROVED EQUIVALENT, (UNLESS NOTED OTHERWISE). UNLESS NOTED OTHERWISE, ANY EXISTING CONCRETE SURFACE IS TO BE CLEANED AND	А.	THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING UNDERGROUND POWER, TELCO,	c.	ASSIST OWNER TECHNICIANS IN PERFORM
Π.	INTERTIONALLY ROUGHED TO A 1/4" AMPLITUDE AND WETTED PRIOR TO FRESH CONCRETE BEING POURED AGAINST SURFACE.		GROUNDING CONDUITS, AND ALL OTHER UTILITY EASEMENTS AND/OR WIRES PRIOR TO TRENCHING. ANY DAMAGE CAUSE TO THE EXISTING UNDERGROUND SERVICES OR SYSTEMS SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.	D.	CONTRACTOR SHALL FOLLOW ALL APPLIC/ (LATEST VERSION), FAA ADVISORY CIRCUL
4.4	QUALITY CONTROL	в.	CONTRACTOR SHALL CONTACT UTILITY PROVIDER PRIOR TO BIDDING AND CONSTRUCTION TO	LAI	NDSCAPING & SITE RESTORATION
Α.	ALL STRUCTURAL CONCRETE SHALL BE INSPECTED BY INDEPENDENT, QUALIFIED PERSONNEL (ACI OR OTHERWISE). ALL STRUCTURAL CONCRETE SHALL BE TESTED BY AN INDEPENDENT LAB. AT A MINIMUM, 5 CYLINDERS SHALL BE CAST AND TESTED AT 7, 14, AND 28 DAYS. THE REMAINING	D.	VERIFY THAT SERVICE HAS BEEN ORDERED AND DISCUSS ANY SITE SPECIFIC REQUIREMENTS. CHANGE ORDERS RELATED TO UTILITY REQUIREMENTS OR REQUESTS WILL NOT BE ALLOWED UNLESS THIS CONDITION HAS BEEN MET.		CONTRACTOR SHALL FURNISH, INSTALL, A CONSTRUCTION DRAWINGS OR REQUIRED
	CYLINDER SHALL BE RESERVED FOR RE-TESTING, IF NECESSARY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE CONSTRUCTION MANAGER	C.	CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND		CONTRACTOR SHALL UTILIZE THE SERVICE LANDSCAPING IS PROPERLY INSTALLED, W
	AND/OR TESTING AGENCY A MINIMUM OF 48 HOURS PRIOR TO EACH FOUNDATION POUR. IF A POUR OCCURS WITHOUT THE REQUESTED INSPECTION. THE OWNER CAN ASSUME THAT THE INSTALLATION WAS NOT INSTALLED CORRECTLY AND REQUIRE REPLACEMENT.	С.	PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY CONTRACTOR.		SHALL GUARANTEE LANDSCAPING FOR A N OR VISIBLY DISTRESSED PLANTS WITHIN T
в.	THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REPLACE, AT THEIR SOLE EXPENSE, ANY CONCRETE THAT DOES NOT MEET THE ABOVE SPECIFICATIONS, OR SIMILAR SPECIFICATIONS	D.	SUBMITTAL OF BID INDICATES CONTRACTOR IS AWARE OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.	A.	CONTRACTOR SHALL PROTECT SEEDED AN CONTROL MESH OR MULCH NET.
	CONTAINED IN THE PLANS OR STRUCTURE DRAWINGS. ANY CONCRETE THAT DOES NOT MEET THE MINIMUM COMPRESSIVE STRENGTH REQUIRED UPON COMPLETION OF LAB TESTING SHALL BE REPLACED. THE AVERAGE OF THE TWO 28 DAY BREAK RESULTS SHALL GOVERN. NO DISPUTES	E.	CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINE WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR	В.	ALL TREES PLACED IN CONJUNCTION WITH PROTECTED WIRE, AND SECURE TO A STEI FOUR SIDES OF THE TREE.
	REGARDING THE METHOD USED TO COLLECT THE TEST CYLINDERS OR PERFORM THE LAB TESTING ARE ALLOWED. IF THE CONTRACTOR CHOOSES, THEY MAY COLLECT AND TEST ADDITIONAL CYLINDERS AT THEIR SOLE EXPENSE.	1	SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER LISTING ALL MALFUNCTIONS, FAULT EQUIPMENT, AND DISCREPANCIES.	c.	ALL EXPOSED AREAS SHALL BE PROTECTE
c.	DESPITE THE ABOVE REQUIREMENT, THE CONTRACTOR IS RESPONSIBLE TO PERFORM QUALITY	F.	THESE PLANS ARE DIAGRAMMATIC ONLY. FOLLOW AS CLOSELY AS POSSIBLE.	D.	SEED AND FERTILIZER SHALL BE APPLIED T AREAS TO BE SEED TO EVEN THE SURFAC
	WORK AND IS THE GUARANTOR OF THE FINISHED PRODUCT. IF A DEFECT IS NOT IMMEDIATELY IDENTIFIED BY THE INSPECTOR, OWNER, OR CONSTRUCTION MANAGER, BUT IDENTIFIED SUBSEQUENTLY, THE CONTRACTOR SHALL STILL BE RESPONSIBLE TO CORRECT SAID DEFECT.	G.	ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.	E.	TWICE THE QUANTITY RECOMMENDED BY IT IS THE CONTRACTOR'S RESPONSIBILITY
D.	CONTRACTOR MUST VERIFY THAT CONCRETE MEETS DESIGN REQUIREMENT (FOR STRENGTH AND OTHER PARAMETERS) BEFORE PLACING ANY SERVICE LOADS.	н.	CONTRACTOR SHALL PROVIDE, LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION,		AREAS BY WATERING. CONTINUE TO REWO OBTAINED.
	CHART AND THE LEVEL DE LEVEL CARTER CONDUCTION DE LEVELOS CONDUCTIONS AND CONDUCTION DE LEVELOS CONDUCTIONS AND CONDUCTURE AND CO		CONSTRUCTION STALL PROVIDE, LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN, AND/OR		

OR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB TERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE 🔀 Edge ulting Engineers, inc. 2101 HIGHWAY 13 W BURNSVILLE, MN 55337 952.683.1032 VOICE 952.405.8583 FAX www.edgeconsult.com CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL PROVAL. SUBMIT TEST REPORTS TO CONSTRUCTION RIS RESULTING FROM WORK AND LEAVE WORK IN A TENED AT EACH END OF ALL CONDUITS. ALL CONDUIT ONLY verizon<sup>4</sup> STED. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED BELS. 10801 BUSH LAKE RD BLOOMINGTON, MN 55438 952.946.4694 VOICE HALL BE PERMANENTLY TAGGED IN EACH PANEL BOARD, OMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT NEW AND IN PERFECT CONDITION WHEN INSTALLED AND LE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS HALL BE LISTED AND APPROVED BY THE UNDERWRITER'S ECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL N. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE ED BY ASNI, NEMA, AND NBFU. **GENERAL NOTES** MIN EQUESTRIAN SC2 MINNETONKA, MINNESOTA IRCUITS WITH COMMON NEUTRAL CONDUCTOR. TRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING RCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A HALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE HALL BE AS SPECIFIED ON THE GROUNDING DRAWINGS. COPPER #12 AWG MINIMUM, NO BX OR ROMEX CABLE IS OTHERWISE ON DRAWINGS. ND NUMBER OF PHASES SHALL BE AS NOTED ON THE D COMPANY OR APPROVED EQUAL. IF HOST FACILITY -METERED FROM THE EXISTING SERVICE, SUB-METER SHALL HAS BEEN DAMAGED IN THE COURSE OF THE 40 PVC BURIED MIN. 36", EXCEPT THE SCH.80 SHALL BE DNS SUBJECT TO CASUAL IMPACTS. BENDS SHALL BE MADE LBOW FITTINGS. ANY CODE-REQUIRED RIGID STEEL ENGINEER SEAL: ED INSIDE AND OUTSIDE. CONDUIT SHALL EXTEND MIN. 36" APPROPRIATE AND A SHE HOR MELTING 2" MIN. RADIUS) ENDING IN PVC TRANSITION FITTINGS. RIGID BE 1/2 LAB-WRAPPED WITH HUNTS PROCESS NO. 3 AL METALLIC TUBING HAVING U.L. LABEL, FITTINGS SHALL BE EU.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED GNATURE . URE. PRIOR TO ERECTION, CONTRACTOR MUST VERIFY STRENGTH REQUIREMENTS AS WELL AS ANY OTHER I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDE MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN TH SHEET INDEX AND THAT IAM A DULY LICENSED PROFESSIONAL ENGINEE UNDER THE LAWS OF THE STATE OF MINNESOTA. TED ON THE DRAWINGS AND PER OWNER SPECIFICATION. HARDWARE AS INDICATED ON THE DRAWINGS OR AGER. ANTENNA INSTALLATION TO BE CONDUCTED BY FIELD AND ERECTION OF ANTENNAS, TRANSMISSION LINES AND PROJECT NO: 20181826405 OCATION CODE: 499311 MING SWEEP TEST OF INSTALLED COAX. 03/27/202 FDS DATE: STRUCTURAL ANALYSIS: ABLE STANDARDS INCLUDING, BUT NOT LIMITED TO: EIA 222 AR AC70/7460-1A, FCC RULES & REGULATIONS. DATE: DESCRIPTION: 4/28/2020 REPORT NO. 20158 SUBMITTAL: AND MAINTAIN LANDSCAPE WORK AS SHOWN ON THE DIN THE SPECIFICATIONS. INT. DATE: DESCRIPTION: RJK 04/21/2020 REV.A ES OF A LANDSCAPE CONTRACTOR TO ENSURE THE VATERED, AND OTHERWISE MAINTAINED. CONTRACTOR ZRS 05/13/2020 REV.0 ZRS 09/04/2020 REV.1 MINIMUM OF ONE (1) YEAR AND SHALL REPLACE ANY DEAD MJM 01/27/2021 REV.2 THIS PERIOD. REAS FROM EROSION THROUGH THE USE OF AN EROSION THA LANDSCAPE PLAN WILL BE WRAPPED, TIED WITH HOSE EEL ANGLE EXTENDING TWO FEET INTO THE GROUND ON HECKED MJM ED AGAINST WASHOUTS AND SOIL EROSION. TO SURFACE CONDITIONS TO ENCOURAGE ROOTING, RAKE 1/27/2021 DATE E AND LOOSEN THE SOIL. SOW SEED IN TWO DIRECTIONS IN THE SEED PRODUCER. ROJEC 20158 Y TO ENSURE GROWTH OF SEEDED AND LANDSCAPED ORK BARE AREAS UNTIL COMPLETE COVERAGE IS SET FINAL SHEET **R-002** IUMBE

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