(IN COMPLIANCE WITH 35 ILL. Adm. CODE 653.119)

WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWER SERVICE CONNECTIONS AND DRAINS AS FOLLOWS:

A. WATER MAINS:

1) HORIZONTAL SEPARATION:

- A) WATER MAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.
- B) WATER MAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:
 - I) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET;
 - II) THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND
 - III) THE WATER MAIN IS FITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
- C) BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP—ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE MEETING THE REQUIREMENTS OF SECTION 653.111 WHEN IT IS IMPOSSIBLE TO MEET (A) OR (B) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE

2) VERTICAL SEPARATION:

- A) A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS, OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN FEET HORIZONTAILLY OF ANY SEWER OR DRAIN CROSSEP. AL ENCIT HE WATER WATER MAIN CROSSEP. SEWER OR DRAIN CROSSED. A LENGTH OF WATER
 MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO
 BE CROSSED WITH JOINTS EQUIDISTANT FROM THE
- B) BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF SLIP-ON MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE MEETING REQUIREMENTS OF SECTION 653.111 WHEN:
 - IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS
 - II) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN
- C) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER, SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN.
- D) CONSTRUCTION SHALL NOT EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.

B) WATER SERVICE LINES:

- 1) THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER SERVICE LINES AND ALL STORM SEWERS, SANITARY SEWERS, COMBINED SEWERS OR ANY DRAIN OR SEWER SERVICE CONNECTION SHALL BE THE SAME AS WATER MAIN SEPARATION DESCRIBED IN (A) ABOVE.
- 2) WATER PIPE DESCRIBED IN (A) ABOVE SHALL BE USED FOR SEWER SERVICE LINES WHEN MINIMUM HORIZONTAL AND VERTICAL SEPARATION CANNOT BE MAINTAINED.
- C) SPECIAL CONDITIONS ALTERNATE SOLUTIONS SHALL BE PRESENTED TO THE AGENCY WHEN EXTREME TOPOGRAPHICAL, GEOLOGICAL OR EXISTING STRUCTURAL CONDITIONS MAKE STRICT COMPLIANCE WITH (A) AND (B) ABOVE TECHNICALLY AND ECONOMICALLY IMPRACTICAL. ALTERNATE SOLUTIONS WILL BE APPROVED PROVIDED WATERTIGHT CONSTRUCTION STRUCTURALLY EQUIVALENT TO APPROVED WATER MAIN MATERIAL IS PROPOSED.
- D) WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS AND SEEPAGE BEDS BY A MINIMUM OF 25
- WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED AGAINST ENTRANCE OF HYDROCARBONS THROUGH DIFFUSION THROUGH ANY MATERIAL USED IN CONSTRUCTION OF THE LINE.

GENERAL NOTES:

- A. ALL EXTERIOR CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS ADOPTED BY THE STATE OF ILLINOIS, WITH LATEST SUPPLEMENT AND THE VILLAGE OF ROMEOVILLE STANDARDS.
- B. UNDERGROUND CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST DATE AND VILLAGE OF ROMEOVILLE STANDARDS.
- C. CONTRACTOR SHALL NOTIFY ALL UTILITIES, GAS, POWER, SEWER, WATER AND TELEPHONE PRIOR TO EXCAVATION SO ALL UTILITIES ARE LOCATED PROPERLY. CONTACT JULIE (1-800-892-0123) AND THE VILLAGE OF ROMEOVILLE.
- D. ELEVATIONS SHOWN ARE USGS.
- E SAW CUT ALL ASPHALT AND CONCRETE REFORE REMOVAL SAW OF ALL ASPHALT AND CONCRETE BEFORE REMOVAL.
 CONTRACTOR DAMAGED ADJACENT PAVEMENT SURFACE OUTSIDE
 CONTRACT LIMITS SHALL BE RESTORED TO EXISTING CONDITION.
 CONTRACTOR DAMAGED CONCRETE APRONS AND CURBS SHALL BE
- F. CONTRACTOR SHALL PROVIDE CA-6 TRENCH BACKFILL UNDER OR WITHIN THE ZONE OF INFLUENCE OF PAVED SURFACES.
- G. ALL PROOF-ROLLING SHALL BE DONE IN THE PRESENCE OF THE VILLAGE OF ROMEOVILLE.
- H NOTIFY VILLAGE AND VILLAGE ENGINEER 2 WORKING DAYS PRIOR TO STARTING PROJECT. VILLAGE CONTACT:

MR. JONATHAN A. ZABROCKI, P.F., MR. JONATHAN A. ZABROCKI, C/O VILLAGE OF ROMEOVILLE 615 ANDERSON DRIVE ROMEOVILLE, IL 60446 (PHONE: 815-886-1870)

- I FROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH THE "STORMWATER POLLUTION PREVENTION PLAN" SHOWN ON SHEET C-33.
- J. WHEREVER A SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATAE TERENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THEN, WITHIN A DISTANCE OF 10 FEET ON EITHER SIDE OF THE WATERMAIN, THEN, WITHIN A DISTANCE OF 10 FEET ON EITHER SIDE OF THE WATERMAIN, THE SEWER PIPE SHALL BE CAST IRON, DUCTILE IRON OR AN APPROVED EQUIVALENT.

SPECIAL NOTES:

C-17 PHASE 1 - DEMOLITION PLAN

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
- II. EACH CONTRACTOR FOR EACH TRADE OR DIVISION SHALL CAREFULLY EACH CONTRACTOR FOR EACH TRADE OR DIVISION SHALL CAREFULLY READ AND STUDY PLANS AND SPECIFICATIONS FOR ALL TRADES TO BE CERTAIN TO INCLUDE IN HIS BID ALL WORK TO BE DONE BY HIM; SHALL VISIT SITE TO DETERMINE ALL LOCAL CONDITIONS INCLUDING ABOVE AND UNDERGROUND CONSTRUCTION OF EVERY TYPE; SHALL CHECK ALL MEASUREMENTS ON JOB; SHALL REPORT ALL INTERFERENCES TO ENGINEER BEFORE WORK IS DONE. APPLICABLE REQUIREMENTS OF PLANS AND SPECIFICATIONS FOR ALL TRADES AND DIVISIONS APPLY TO ALL CONTRACTS. ALL WORK MUST FIT INTO AVAILABLE SPACE AND BE LOCATED TO FACILITATE REMOVAL, REPLACEMENT AND SERVICING WITH MODIFICATIONS AS REQUIRED AND AS APPROVED BY ENGINEER, WITHOUT INCREASE IN CONTRACT PRICE.
- III. CONTRACTOR SHALL FURNISH RECORD DRAWINGS IN ACCORDANCE WITH REQUIREMENTS OF THE VILLAGE OF ROMEOVILLE RECORD DRAWINGS CHECKLIST, ON DISKETTE IN AUTOCAD (dwg) FORMAT. CORRECTIONS TO SITE DESIGN, UTILITY PLACEMENT, AND ELEVATIONS MUST BE SHOWN ON DIGITAL DRAWINGS BY CROSSING OUT THE ORIGINAL DESIGN INFORMATION AND ADDING THE CHANGES MADE (REFER TO 8.11).
- IV. STORM WATER DETENTION VOLUME AFTER CONSTRUCTION MUST BE CALCULATED AND CERTIFIED BY A PROFESSIONAL ENGINEER.

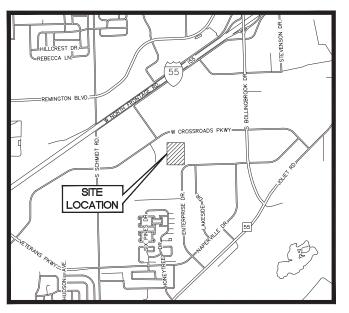
STATE OF ILLINOIS WILL COUNTY

SITE IMPROVEMENTS

FOR:

1290 ENTERPRISE DR.

ROMEOVILLE, ILLINOIS





JOB SITE BENCHMARK: FINISH FLOOR @ MANDOOR ON S. FACE OF BLDG. ELEV. = 701.72 (NAVD88)

INDEX OF DRAWINGS

C-1	COVER SHEET	C-18	PHASE 1 - GEOMETRIC PLAN
C-2	GENERAL NOTES and SPECIFICATIONS	C-19	PHASE 1 - GRADING PLAN
C-3	EXISTING CONDITIONS and SOIL BORINGS	C-20	PHASE 1 - UTILITY PLAN
C-4	PROJECT PROPOSED SITE PLAN and ITEMS OF WORK	C-21	PHASE 2 - PROPOSED SITE PLAN
C-5A	PROPOSED SITE SOIL FROSION CONTROL PLAN	C-22	PHASE 2 - SOIL EROSION CONTROL PLAN
C-5B	SOIL EROSION CONTROL DETAILS	C-23	PHASE 2 — DEMOLITION, GEOMETRIC, GRADING and UTILITY PLANS
C-6	CROSS SECTIONS A-A to G-G	C-24	PHASE 3 - PROPOSED SITE PLAN
C-7	PROPOSED SITE GEOMETRIC PLAN	C-25	PHASE 3 - SOIL EROSION CONTROL PLAN
C-8	PROPOSED SITE GRADING PLAN	C-26	PHASE 3 - DEMOLITION PLAN
C-9	PROPOSED SITE UTILITY PLAN	C-27	PHASE 3 - GEOMETRIC PLAN
C-10	PROPOSED SITE UTILITY PROJECT NOTES	C-28	PHASE 3 - GRADING PLAN
C-11	UTILITY PROFILE L-L to M-M	C-29	PHASE 3 - UTILITY PLAN
C-12	UTILITY PROFILE N-N to Q-Q	C-30	DETAILS
C-13	UTILITY PROFILE R-R to W-W	C-31	DETAILS
C-14	PROPOSED SITE STRIPING PLAN	C-32	DETAILS
C-15	PHASE 1 - PROPOSED SITE PLAN	C-33	OIL/WATER SEPARATOR DETAIL
C-16	PHASE 1 - SOIL EROSION CONTROL PLAN	C-34	STORMWATER POLLUTION PREVENTION PLAN

SITE DATA TABLE:

TOTAL SITE AREA = 262,180 SF = 6.02 AC

EXISTING IMPERVIOUS SURFACE AREA = 167,843 SF = 3.86 AC = 64.12%

PROPOSED IMPERVIOUS SURFACE AREA = 196,400 SF = 4.50 AC = 74.82%

PARKING SPACES CARS

REG. H.C. TOTAL

TRAILER: 12' X 30' 12' X 60' TOTAL = 128 IE: THE LOCATION OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ETC., AS SHOWN ON THE PLANS, HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE OWNER AND THE ENGINEER DO NOT ASSUME RESPONSIBILITY TO WHEN THAT DURING CONSTRUCTION, UTILITIES OTHER THAN THOSE SHOWNER HAVE THE ASSUMED THE SECOND HEAD OF THE PLANS.



DRAINAGE CERTIFICATE

I, FRANK D. CHILDERS, HEREBY CERTIFY THAT ADEQUATE STORM WATER STORAGE AND DRAINAGE CAPACITY HAS BEEN PROVIDED FOR THIS DEVELOPMENT, SUCH THAT SURFACE WATER FROM THE DEVELOPMENT WILL NOT BE DIVERTED ONTO AND CAUSE DAMAGE TO ADJACENT PROPERTY FOR STORMS UP TO AND INCLUDING THE ONE HUNDRED (100)
YEAR EVENT, AND THAT THE DESIGN PLANS ARE IN
COMPLIANCE WITH ALL APPLICABLE STATE, COUNTY, AND
VILLAGE ORDINANCES.

SHEET TITLE:

PROFESSIONAL ENGINEERS CERTIFICATE

I, FRANK D. CHILDERS, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS TECHNICAL SUBMISSION WAS PREPARED UNDER MY PERSONAL DIRECTION FOR THE EXCLUSIVE USE OF THE CLIENT NOTED IN THE TITLE BLOCK. REPRODUCTION OR USE BY A THIRD PARTY IS STRICTLY PROHIBITED WITHOUT THE WRITTEN PERMISSION OF THE UNDERSIONED.

DATED THIS 3rd DAY OF JULY A.D. 2019

LEGEND

CONSTRUCTION FENCE SILT FENCE

CURB AND GUTTER

— OH — OVERHEAD UTILITY LINE

CATCH BASIN

MANHOLE

WATER SHUT-OFF VALVE

TRENCH BACKFILL

FIRE HYDRANT

WATER VALVE

UTILITY POLE ELECTRICAL BOS TELEPHONE PEDISTA WHEEL STOP

DECIDUOUS TREE

CONTOUR

SPOT GRADE

CURB ELEVATION
GUTTER ELEVATION

RIM ELEVATION INVERT ELEVATION

STANDARD ABBREVIATIONS

SIGN

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-000-

+ 000

+ 000

CONCENTRIC REDUCER

REVERSE PITCH CURB AND GUTTER

PROPERTY LINE

PROPOSED

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2 Б,

ACILITY R., ROMEOVILLE, I

NEW F ENTERPRISE D

EXISTING

------ W ------ WATERMAIN

UTILITY PIPE TO BE REMOVED

Frank O Childers

NOTE: UNLESS THIS DOCUMENT BEARS ORIGINAL SIGNATURE IN COLOR, IT IS NOT A VALID TECHNICAL SUBMISSION

CHECKED BY: FDC

PROJECT NO: 15.120

SHEET NO:

- a. GAS CHLORINE MUST BE USED FOR DISINFECTION.
 b. THE CHLORINATION CONTRACTOR MUST CALL 815-886-1870 A MINIMUM OF 24-HOURS IN ADVANCE TO SCHEDULE CHLORINATION.
 c. ONLY VILLAGE OF ROMEOVILLE EMPLOYEES SHALL OPERATE WATER SYSTEM VALVES AND TUM ON/OFF SAMPLING WHIPS WHILE SAMPLES ARE BEING COLLECTED. d. ALL CHLORINATION AND SAFETY EQUIPMENT MUST MEET OR EXCEED THE STANDARDS AND RECOMMENDATIONS SET BY THE CHLORINE INSTITUTE, INC.

- INDITIONS. INC.

 THE CHLORINATOR MUST BE A LICENSED PLUMBER OR CERTIFIED ILLINOIS WATER OPERATOR WITH A MINIMUM OF 5 YEARS' EXPERIENCE WORKING WITH CHLORINE DISINFECTION OF WATER SUPPLY LINES.

 THE CHLORINATION CONTRACTOR MUST HAVE TWO PEOPLE PRESENT TO CHLORINATE. ONE TO MONITOR IN THE FIELD. MONTOR IN THE FILLIANT WITHAUTH MUST HAVE UPDATED \$4.00 NO INSURED, AND HAVE PROOF OF BOTH ON FILE WITH THE VILLAGE.

 3. THE CHLORINATION CONTRACTOR MUST BE BONDED AND INSURED, AND HAVE PROOF OF BOTH ON FILE WITH THE VILLAGE.

 1. THE CHLORINATION CONTRACTOR MUST COMPLY WITH STATE AND FEDERAL REGULATIONS REGARDING TRANSPORTATION AND HANDLING OF CHLORINE CYLINDERS:

 • SHIPPING AND EMERGENCY PAPERS FOR EVERY JOB LOCATION
 PROOF OF INSURANCE FOR HAULING AND HANDLING CHLORINE GAS

 • COMMERCIAL DRIVER'S LICENSE WITH HAZWAT ENDORSEMENT AND MEDICAL CARD

 • COPY OF EMERGENCY RESPONSE GUIDEBOOK IN VEHICLE

 • HAZWAT CERTIFICATE OF REGISTRATION
 HAZWAT CERTIFICATE OF REGISTRATION
 HAZWAT DEVELOPED THE PROOF OF TH

- . OLDINGER STRAFFED VERNOTE IN TRUCK.

 J. UNDER NO GREGMETANCES WILL CHOKINE CONTRACTORS BE ALLOWED TO APPLY HEAT TO THE CHLORINE CYLINDER (I.E. HOT BATHS, PROPANE TORCHES, ETC.). WHILE THE CYLINDER IS BEING USED IT MUST BE IN A VERTICAL POSITION, AS WELL AS BEING AFFIXED TO A SOLD OBJECT.
- A SOULD OBJECT.

 A. PRIOR TO CHIORINATION, THE CHLORINATION CONTRACTOR MUST PROVIDE A DETAILED WRITTEN CHLORINATION AND FLUSHING PLAN TO THE VILLAGE FOR REVIEW AND WRITTEN APPROVAL.

 A TANY TIME, THE VILLAGE OR ITS AUTHORIZED REPRESENTATIVE MAY ASK FOR PROOF OF ANY OR ALL OF THE ABOVE INFORMATION.
 PLEASE CONTACT THE VILLAGE OF ROMEOVILLE PUBLIC WORKS DEPARTMENT (815-886-1870) WITH ANY QUESTIONS.

FINAL ACCEPTANCE AND TESTING OF SANITARY SEWER

BEFORE FINAL ACCEPTANCE THE SANITARY SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-111 OF THE "STANDARD BEFORE FINAL ACCEPTANCE, THE SANITARY SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE STANDARD SPECIFICATION STORMS FOR WATER AND SEWER MAIN CONSTRUCTED OF SECTION IN ILLINOSE, SPECIFICATION STORMS FOR STANDARD SECTION SE VERTICAL RING DEFLECTION. MAXIMUM RING DEFLECTION OF THE PIPELINE UNDER LOAD SHALL BE LIMITED TO FIVE (5) PERCENT OF THE INTERNAL PIPE DIAMETER. ALL PIPES EXCEDING HIS DEFLECTION SHALL BE CONSIDERED TO HAVE REACHED THE LIMIT OF ITS SERVICEABILITY AND SHALL BE RE-LAUD OF REPLACED BY THE DEVELOPER. DEFLECTION TESTING SHALL BE ACCOMPUSIBLED BY PULLING A MANDREL, SPHERE, OR PIN-TYPE "GO I NO-GO" DEVICE, WITH A DIAMETER EQUAL TO NINETY-FIVE (95) PERCENT OF THE UNDEFLECTED INSIDE DIAMETER OF THE FLEXIBLE PIPE, THROUGH THE PIPELINE. IN ADDITION, ALL SANTIARY SEWER HAVING A DIAMETER OF EIGHT (8) INCHES OR GREATER SHALL BE TELEVISED. COPIES OF ALL VIDEO TAPES MUST BE SUBMITTED TO THE VILLAGE OF

FINAL TESTING OF SANITARY SEWER MANHOLES

VACUUM TESTING SHALL BE CARRIED OUT IMMEDIATELY AFTER ASSEMBLY AND PRIOR TO BACKFILLING OF MANHOLES THAT ARE UP TO SEVENTY—TWO (72) INCHES IN DIAMETER. ALL LIFT HOLES SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. THE MANHOLE FRAME AND ADJUSTING RINGS AND CHINNEY SEALS SHALL BE IN PLACE BEFORE TESTING. NO GROUT SHALL BE PLACED IN THE HORIZONTAL JOINTS. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE WITH THE VACUUM TESTING, VACUUM TESTING SHALL TEST ALL MANHOLES FOR LEAKAGE. A VACUUM OF TEN (10) INCHES OF MERCURY SHALL BE PLACED ON THE MANHOLE AND THE TIME MEASUREP FOR THE VACUUM TO ROP OF NINE (9) INCHES OF MERCURY. THE VACUUM DROP SHALL NOT EXCEED THE REQUIREMENTS SHOWN IN TABLE 1 OF ASTM C1244—02. IF TESTING FAILS, DEVELOPER SHALL SEAL ALL LEAKS AND RETEST UNTIL ACCEPTABLE. IT THE TESTING SHALL BEC OMPETED PRIOR TO BACKFILLING (WHENEVER POSSIBLE) SO THAT ANY LEAKS CAN BE FOUND AND FIXED EXTERNALLY, AND TO GIVE THE HORIZONTAL MANHOLE JOINTS AN OPPORTUNITY TO TIGHTEN.

FLOW MONITORING PRIOR TO ACCEPTANCE

THE DEVELOPER WILL BE REQUIRED TO MONITOR THE FLOWRATE FROM THE SITE FOR A PERIOD OF TWO MONTHS (ENCOMPASSING AT LEAST TWO MAJOR STORM EVENTS) TO IDENTIFY ANY EXCESSIVE INFLOW/INFLITRATION OCCURRING IN THE SYSTEM. THE DATA MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.

PUBLIC UTILITY AND DRAINAGE EASEMENT PROVISIONS

EASEMENTS ARE RESERVED FOR AND GRANTED TO THE VILLAGE OF ROMEOVILLE AND TO THOSE PUBLIC UTILITY COMPANIES OPERATING UNDER FRANCHES FROM THE VILLAGE INCLUDING, BUT NOT LIMITED TO, COMMONWEALTH EDISON COMPANY, SEC, NICOR GAS COMPANY, AND THE FLAT FOR THE PERPETUAL RIGHT, PRIVALEGE AND AUTHORITY TO CONSTRUCT, REPAIR, INSPECT, REPAIR REPAIR

DRAINAGE EASEMENT PROVISIONS

EASEMENTS ARE RESERVED FOR AND GRANTED TO THE VILLAGE OF ROMEOVILLE AND THEIR SUCCESSORS AND ASSIGNS OVER ALL THE AREAS MARKED "DRAINAGE EASEMENT" ON THE PLAT FOR THE PERPETUAL RIGHT, PRIVILEGE AND AUTHORITY TO CONSTRUCT, RECONSTRUCT, REPAIR, INSPECT, MAINTAIN, AND OPERATE VARIOUS TRANSMISSION AND DISTRIBUTION SYSTEMS INCLUDING OVERLAND FLOOD ROUTES, DETENTION FACILITIES, STORM SEWERS, TOGETHER WITH ANY AND ALL NECESSARY WANHOLES, CATCH BASINS, CONNECTIONS, APPLIANCES, AND ADD THERE STRUCTURES AND APPURTENANCES AS MAY BE DEEMED NECESSARY BY SAID VILLAGE, VILPON, ALONG, UNDER, AND THROUGH, SAID INDICATED EASEMENT, TOGETHER WITH RIGHT OF ACCESS ACROSS THE PROPERTY FOR NECESSARY WORKERS AND EQUIPMENT TO DO ANY OF THE ABOVE WORK. THE RIGHT IS ALSO GRANTED TO CUIT DOWN, TIME, OR RESULT SHE SHRUBS, PLANTS, OR OTHER APPURTENANCES ON THE EASEMENT THAT INTERFERE WITH THE OPERATION OF THE SEWERS, OR OTHER DRAINAGE FACILITIES, NO PERMANENT STRUCTURES SHALL BE PLACED ON SAID EASEMENT BUT SAME MAY BE USED AT THE RISK OF THE OWNER FOR GARDENS, SHRUBS, LANDSCAPING, OR OTHER PURPOSES THAT DO NOT THEN OR LATER INTERFERE WITH THE AFORESAD USES OR RIGHTS. THESE PROVISIONS GRANT CERTAIN RIGHTS TO THE MILLAGE OF ROMEOVILLE; HOWEVER THE MAINTENANCE RESPONSIBILITY FOR THESE IMPROVEMENTS IS BORNE BY THE LAND OWNER.

UTILITY EASEMENT PROVISIONS

EASEMENTS ARE RESERVED FOR AND GRANTED TO THE VILLAGE OF ROMEOVILLE AND THEIR SUCCESSORS AND ASSIGNS OVER ALL THE AREAS MARKED "UTILITY EASEMENT" ON THE PLAT FOR THE PERPETUAL RIGHT, PRIVILEGE AND AUTHORITY TO CONSTRUCT, RECONSTRUCT, REPAIR, INSPECT, MAINTAIN, AND OFERATE VARIOUS UTILITY LINES, INCLUDING BUT NOT LIMITED TO, SANTHAY SEWERS, WATER MAINS, STORM MANUES, CONNECTIONS, APPLIANCE OF A WITH AN ELECTRIC SANTHAY SEWERS, WATER MAINS, STORM SANTHAY OF THE ABOVE WORK. THE RIGHT IS ALSO GRANTED TO CLUT DOWN, TIME, OR REMOVE ANY TERS. SHOULDS, PLANTS, OR OTHER POPURTERMANCES ON THE EASEMENT THAT INTERFERE WITH THE OPERATION OF THE UTILITIES, NO PERMANENT STRUCTURES SHALL BE PLACED ON SAID EASEMENT BUT SANTHAY BE USED AT THE RISK OF THE OWNER FOR GARBONS, SHOULDS, PRIVAGE, PROPOSES THAT DO NOT THEN OR LATER INTERFERE WITH THE AFORESAID USES OR RIGHTS, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE WILLAGE OF ROMEOVILLE. HOWEVER THE MAINTENANCE RESPONSIBILITY FOR THESE MORPOURMENTS IS BORNE BY THE LAND OWNER.

VILLAGE OF ROMEOVILLE RECORD DRAWINGS CHECKLIST

RECORD DRAWNISS ARE REQUIRED TO PROVIDE A MEANS OF SCHEMATIC VERIFICATION THAT THE INTENT OF THE APPROVED ENGINEERING DESION HAS BEEN MET, THEREBY SUBSTANTIATING THAT THE HEALTH, SAFETY, AND WELFARE ASPECTS OF THE ENGINEERING DESION HAVE BEEN ADEQUATELY PROVIDED BY THE CONSTRUCTION OF THE PROJECT. SECONLY, RECORD DRAWNIOS SERVE AS A REFERENCE TOOL FOR FUTURE LOCATION AND MAINTENANCE OPERATIONS. THE FOLLOWING REQUIREMENTS WILL BE APPLIED TO EACH SET OF RECORD DRAWNIOS DEVELOPED FOR THE WILLAGE OF ROMEOVILLE.

- 1.1 GENERAL RECORD DRAWING REQUIREMENTS A. THE FIRST SHEET OF THE SET WILL HAVE A VICINITY MAP IN THE UPPER RIGHT HAND CORNER.
 - B. RECORD DRAWINGS SHALL BE SUBMITTED AS REVISIONS SHOWN ON THE ORIGINAL ENGINEERING PLANS AND AS AUTOCAD (VERSION 2004) FILES. RECORD DRAWINGS WILL HAVE THE ORIGINAL DATA LINED THROUGH AND THE RECORD DATA ADDED TO THE DRAWING. AT NO TIME WILL THE ORIGINAL DATA BE ACCEPTED AS THE RECORD DATA.
 - C. ALL RECORD DRAWINGS FOR MAJOR PROJECTS ARE REQUIRED TO BE 24" X 36" AND SHALL BEAR THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE FIRM PREPARING THE DRAWING AND THE DATE THE RECORD DATA IS ADDED TO THE ORIGINAL VIA THE REVISION BIOCK.
 - D. SURVEYOR'S/ENGINEER'S STATEMENT (WITH EMBOSSED OR WET SEAL AND WITH ORIGINAL SIGNATURE ON EACH SHEET) SHALL VERIFY THAT THE RECORD DRAWINGS REFLECT THE TRUE CONDITIONS IN THE FIELD.
 - E. CONTRACTOR'S STATEMENT (WITH ORIGINAL SIGNATURE ON EACH SHEET) SHALL VERIFY THAT ALL CONSTRUCTION SPECIFICATIONS AND PRODUCT QUALITIES HAVE BEEN MET OR EXCEEDED.
 - F. "RECORD DRAWING" SHALL BE LABELED ON EACH SHEET IN 1-INCH HIGH LETTERS.

VILLAGE OF ROMEOVILLE RECORD DRAWINGS CHECKLIST (CONTINUED)

- H. IF THE UTILITY SYSTEM IS TO BE PRIVATE (NOT TO BE DEDICATED TO LOCAL AUTHORITY), THEN INDICATE ON EACH SHEET.

 I. THE LOCATION AND ELEVATION OF THE BENCHMARKS REFERENCED WILL BE SHOWN ON THE DRAWING. IF THE REFERENCED
- BENCHMARKS ARE NOT WITHIN THE PROJECT LIMITS, THEN COMPLETE DESCRIPTIONS OF LOCATIONS MUST BE PROVIDED. SHOW ALL EASEMENTS WITHIN THE PROJECT LIMITS ON THE RECORD DRAWINGS
- ALL AS-CONSTRUCTED ELEVATIONS MUST BE REFERENCED TO THE SAME BENCH MARK DATUM AS THE ORIGINAL APPROVED DESIGN PLANS.

A. LOCATE VALVES, FITTINGS, SERVICES (B-BOXES), SHUT-OFF VALVES, AND FIRE HYDRANTS IN TWO DIRECTIONS (STATION AND

- LOCATIONS SHALL BE PERPENDICULAR TO THE RIGHT-OF-WAY AND PARALLEL TO THE WATER MAIN.
 a. LOT LINES MAY BE USED TO LOCATE WATER SERVICES.
 b. PERMANENT STRUCTURES THAT ARE PROPERLY LOCATED MAY ALSO BE USED.
 c. RADIAL TIES ARE NOT ACCEPTABLE.

- C. RADIAL TIES ARE NOT ACCEPTABLE.

 2. ALL HORIZONTAL DISTANCES SHALL BE SHOWN TO THE NEAREST FOOT, ALL VERTICAL DISTANCES SHALL BE SHOWN TO THE NEAREST TENTH OF A FOOT.

 SHOW ALL MATERIALS, SIZES, AND TYPES OF VALVES, PIPES, AND FITTINGS.

 ELEVATIONS SHALL BE GIVEN FOR THE TOP OF ALL MANHOLE COVERS AND FOR TOP OF PIPE.

 SPECIAL DETAIL DRAWINGS WILL BE REQUIRED WHERE INSTALLATIONS ARE NOT SHOWN ON PHPOVED ENGINEERING DRAWINGS FOR WHATEVER REASON OR WHERE REQUIRED FOR CLARITY.

- FOR WHATEVER REASON OR WHERE REQUIRED FOR CLARITY.
 SHOW LOCATION AND ELEVATIONS FOR PIPES AND FITTINGS WHERE CHANGES IN DIRECTION OCCUR.
 SHOW LINEAR DISTANCES ALONG WATERMAIN FROM APPURTENANCE TO APPURTENANCE (I.E., VALVE VAULT TO TEE, TEE TO
 BEND, BEND TO VALVE, ETC.)
 DETAILS FOR WATER SERVICES DEVIATING FROM TYPICAL INSTALLATION DETAILS OF THE APPROVED ENGINEERING PLANS SHALL

- 1.3 SANITARY SEWER SYSTEM RECORD DRAWING REQUIREMENTS
 C. ALL PIPING, WYES, TEES, VALVES, CLEANOUTS, MANHOLES AND SPECIAL CASES SHALL BE LOCATED IN TWO DIRECTIONS, IN THE SAME MANITER AS WATER LOCATIONS. HORIZONTAL DIMENSIONS SHALL BE TO THE NEAREST FOOT. VERTICAL ELEVATIONS SHALL BE TO THE NEAREST HUNDREDTH OF A FOOT.
- F. ELEVATIONS SHALL BE GIVEN FOR THE TOP OF ALL MANIOLE COVERS AND FOR THE INVERTS OF ALL PIPPES ENTERING/EXITING EACH MANHOLE.

 G. SERVICE LATERALS ARE TO BE IDENTIFIED WITH LOCATION OF END SERVICE PLUG (STATION AND OFFSET MEASURED UPSTREAM).

 H. DETAILS FOR DROP MANHOLES DEVIATING FORM THE DETAILS ON THE APPROVED ENGINEERING PLANS SHALL BE INDICATED ON THE RECORD DRAWNISS.
- I. PROVIDE COPIES OF ALL TESTING RECORDS AND VIDEO TAPES OF ALL SANITARY LINES.

- 1.4 FORCE MAINS RECORD DRAWING REQUIREMENTS
 A. LOCATE ALL VALVES, ETITINGS, ETC. IN TWO DIRECTIONS IN THE SAME MANNER AS WATER LOCATIONS.
 B. LOCATIONS OF FITTINGS SHALL BE SHOWN AT ALL CHANGES IN DIRECTION.
- C. ELEVATIONS SHALL BE GIVEN FOR THE TOP OF ALL MANHOLE COVERS AND FOR THE INVERTS OF ALL PIPES ENTERING/EXITING
- EACH MANIOLE.

 AND TYPES OF VALVES, FITTINGS, PIPE, ETC.

 SPECIAL DETAIL DRAWINGS WILL BE REQUIRED WHERE INSTALLATIONS ARE NOT AS SHOWN ON THE APPROVED DRAWINGS FOR WHATEVER REASON.

1.5 PUMP STATION RECORD DRAWING REQUIREMENTS

- A. WETWELL SIZE AND LOCATION SHALL BE SHOWN ALONG WITH HIGH AND LOW WATER LEVELS.
- ELEVATIONS FOR TOP, BOTTOM, INVERTS, ADJACENT GROUND AND TYPE AND SIZE OF LINES AND FITTINGS FOR ALL LINES ENTERING OR LEAVING THE WETWELL.
- ENTERING OR LEAVING THE WETWELL.

 ALL SCHEDULES WHICH SHOW PUMP, MOTOR AND ELECTRICAL DATA SHALL BE AMENDED AND SHALL BE SUBMITTED WITH WETWELL DRAWNIGS.

 ALL IMPROVMENTS WITHIN THE PUMP STATION BOUNDARIES SHALL BE LOCATED HORIZONTALLY AND VERTICALLY TO THE REAREST TENTH OF A FOOT (I.E., VALVE PIT, PUMP-OUT, WATER SPIGOT, WETWELL, CONTROL PANEL, BENDS, FITTINGS, ETC.).

 E COPIES OF ALL OPERATION AND MAINTENANCE MANUALS (THREE COPIES MINIMUM) INCLUDING PUMP CURVES.

1.6 DRAINAGE SYSTEM RECORD DRAWING REQUIREMENTS

- A ALL DRAINGE STRUCTURES SHALL BE LOCATED BY STATION AND OFFSET FROM RIGHT OF-WAY LINE.

 B. ELEVATIONS SHALL BE GIVEN FOR THE TOP OF ALL MANHOLE COVERS AND FOR THE INVERTS OF ALL PIPES ENTERING/EXITING EACH MANHOLE.
- EACH MANHOLE.

 PER THE WILL COUNTY STORM WATER ORDINANCE, ANY ON-SITE FIELD TILES WHICH REMAIN ON-SITE MUST BE IDENTIFIED ON RECORD DRAWNISS.

 BIENTIFY SIZE, MATERIAL, AND SLOPE OF ALL PIPING.

 PROVIDE SPOT LEUVATIONS AND CROSS SECTIONAL INFORMATION, AS WELL AS SLOPE, ON ALL DITCHES, CANALS, ETC.

 F. "RECORD" INFORMATION REQUIRED ON STORM WATER BASINS SHALL CONSIST OF:
- TOPOGRAPHIC MAP OF THE DETENTION AREA.
- 2. SPOT ELEVATION ON TOP OF BANK TO CONFIRM MINIMUM DESIGN BANK ELEVATION.
- 3. OBSERVED WATER ELEVATION AT DATE OF THE RECORD DRAWING FOR WET BOTTOM BASINS.

 4. INCLUDE RECORD DETAIL OF THE OUTLET CONTROL STRUCTURE INCLUDING ELEVATIONS OF THE TOP OF THE CONTROL STRUCTURE, THROAT, FACES, ORIFICES, OR UNDERDRAIN.

 5. LOCATION OF TOP OF BANK AND EXISTING WATER EDGES AT TIME AND DATE OF TAKING ELEVATIONS.

- SPOT ELEVATIONS ON THE BOTTOM OF DRY BOTTOM BASINS, OR, IF REQUESTED BY THE VILLAGE ENGINEER FOR WET BOTTOM BASINS. 7. A STAGE/STORAGE TABLE SHOWING THE DESIGN AND AS-CONSTRUCTED POND VOLUMES AND RELEASE RATES.
- A SIANLE/SIGNACE LIABLE SYNDMING HE DESIGN AND AS-CUSTRICULED POUR VOLUMES AND RELEASE RAILS. A SIGNED/SEALED STATEMENT BY A PROFESSION ENGINEER THAT THE DETENTION POND(S) PROVIDES THE REQUIRED DETENTION STORAGE AND DOES NOT EXCEED THE ALLOWABLE OUTFLOW RATE(S) PER THE APPROVED DONSTRUCTION PLANS AND HYDROLOGY STUDY. FE SIGNIFICANTLY DIFFERENT THAN THE APPROVED DAMMINGS (AS DETAILINED BY THE VILLAGE ENGINEER). THE ENGINEER MUST SUBMIT A REVISED HYDROLOGY STUDY USING THE AS-CONSTRUCTED CONDITIONS IN ORDER TO DOCUMENT THIS STATEMENT.
- 9. PROVIDE COPIES OF ALL TESTING RECORDS AND VIDEO TAPES OF ALL STORM LINES.

1.7 GRADING RECORD DRAWING REQUIREMENTS

- INCLUDE ELEVATIONS FOR PROPERTY CORNERS, THE HIGH OR LOW POINTS, OR MAJOR BREAK POINTS ON ALL LOT LINES, AND SWALES.
- SWALES.

 INCLUDE SPOT ELEVATIONS ON THE SIDE PROPERTY LINES AT THE FRONT AND REAR LINES OF THE STRUCTURE EXTENDED.
 SHOW CONTOURS AT A ONE-FOOT CONTOUR INTERVAL. FLAT GRADING MAY REQUIRE INTERMEDIATE CONTOUR LINES TO DEFINE
 SWALES AND DRAINAGE PATTERNS.

 LOCATE THE LOWEST ADJACENT GRADES (LAGS) TO ANY OPENINGS ALONG REAR YARD AND SIDE-YARD SWALES.
 PROVIDE CROSS-SECTIONS, AT A MAXIMUM SPACING OF 50 FEET, ALONG ALL 100- YEAR OVERLAND FLOOD ROUTES LOCATED
 OUTSIDE STREET PAYMENETS.

- 1.8 STRUCTURE RECORD DRAWING REQUIREMENTS
 A. INCLUDE AS-CONSTRUCTED TOP OF FOUNDATION ELEVATIONS, INCLUDING ALL STEPS IN THE FOUNDATION.
 B. INCLUDE AS-CONSTRUCTED ELEVATIONS OF BASEMENTS OR WALK-OUTS IF PRESENT.

- A. PROVIDE HORIZONTAL TIES FOR LIGHT FOUNDATIONS AND CONTROL CABINETS AS REFERENCED TO THE APPROVED PLAN STATIONING OR COORDINATE.
- B. SERVICE CABLES AND SERVICE TRANSFORMERS SHALL BE DEPICTED IN SCHEMATIC FORM.

- 1.10 ELECTRONIC FILE RECORD DRAWING REQUIREMENTS
 A. INCLUDE AUTOCAD (V.2004) COMPATIBLE VERSION OF ALL RECORD INFORMATION.
 B. PROVIDE SEPARATE LAYERS FOR ALL UTILITIES.

- . NO FINAL OCCUPANCY PERMITS, OR ACCEPTANCE OF THE PUBLIC UTILITIES BY THE VILLAGE OF ROMEOVILLE WILL PROCEED UNTIL THE RECORD DRAWINGS HAVE BEEN SUBMITTED AND APPROVED BY THE VILLAGE ENGINEER.
 - NOTE: UPON COMPLETION OF CONSTRUCTION, RECORD DRAWINGS FOR ALL PUBLIC IMPROVEMENTS MUST BE PROVIDED TO THE VILLAGE ON DISKETTE IN AUTOCAD (.dwg) FORMAT. CORRECTIONS TO SITE DESIGN, UTILITY PLACEMENT, AND ELEVATIONS MUST BE SHOWN ON THE DIGITAL DRAWINGS BY CROSSING OUT THE ORIGINAL DESIGN INFORMATION AND ADDING THE CHANCES MADE.

VILLAGE OF ROMEOVILLE WATER NOTES:

ALL VALVE VAULTS SHALL BE A MINIMUM OF 5' DIAMETER.

FRAME AND COVER SHALL BE EAST JORDAN #1022Z3 EMBOSSED WITH 1020A HD "WATER" AND "VILLAGE OF ROMEOVILLE".

ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MacWrap OR EQUAL.

RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL.

INTERNAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED.

MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAYED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJW INGRA-RISER RUBBER COMPOSITED ADJUSTMENT INSERS (1" TO 3" MAX HI. OF STACKED RISERS)

MANHOLES MUST CONFORM TO THE LATEST REQUIREMENTS OF ASTM C478.

NEVER TRANSPORT SECTIONS TO THE SITE UNTIL THEY HAVE CURED FOR AT LEAST 10 (10) DAYS.

MARK EACH PIECE PLAINLY WITH MANHOLE NUMBERS AND DATE OF MANUFACTURE SO IT CAN BE INSTALLED IN THE PROPER LOCATION, AS SHOWN ON THE PLANS.

MAKE SURE FACTORY-INSTALLED CUTOUTS IN THE BOTTOM SECTION ARE APPROPRIATE FOR THE PIPE BEING LAID.

PIPE CONNECTIONS AT MANHOLE—CUTOUTS SHOULD BE EQUIPPED WITH RUBBER BOOTS TO ENSURE A WATERTIGHT CONNECTION. MATERIAL SHALL BE EQUAL TO KOR—N—SEAL CONNECTOR, AS MANUFACTURED BY NPC, INC.

JOINT SEALANT — FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE—CAST MANHOLE SECTIONS SHALL PROVIDE PERMANENTLY FLEXIBLE WATERTIGHT JOINT, SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT SHRINK, HARDEN OR OXIDIZE UPON AGING. MATERIAL SHALL BE EQUAL TO TYLOX SUPERSEAL AND SHALL MEET ASTIO C 443 AND ASTIM C 361 REQUIREMENTS.

THE FRAME FOR THE LID SHALL BE INSTALLED WHEN CONE SECTION IS CAST.

HEAT-SHRINKABLE ENCAPSULATION FOR EXTERNAL WRAPPING OF ALL JOINTS: WRAPID SEAL AS MANUFACTURED BY CANUSA CPS, BIDCO EXTERNAL JOINT WRAP AS MANUFACTURED BY NPC, OR APPROVED EQUAL.

PLEASE BE CONSCIOUS OF DAMAGING THE PAINT ON THE HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEOVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BEEN DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAGE OF ROMEOVILLE WATER SUPERINTENDENT, ANY HYDRANTS EXHIBITING EXCESSIVE ROCK DAMAGE WILL BE SAND BLASTED AND REPAINTED BY AN APPROVED CONTRACTOR PRIOR TO ACCEPTANCE.

A MINIMUM OF 48 HOURS PRIOR TO ANY WATER USAGES (I.E. FLUSHES, FILLS, ETC.), THE CONTRACTOR MUST CALL THE VILLAGE OF ROMEOVILLE'S WATER DEPARTMENT AT 815-886-1870 TO GET APPROVAL OF SAID USAGE. ANY UNAUTHORIZED USAGES WILL RESULT IN PENALTIES.

ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE WATER DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO ORDERING.

WATERMAIN MUST HAVE A MINIMUM COVER DEPTH OF 5'-6''. ALL WATERMAINS MUST BE WRAPPED IN POLYETHYLENE USING METHOD B. ALL JOINTS MUST BE RESTRAINED WITH MEGALUGS (EBAA IRON) ONLY.

HYDRANTS MUST BE EAST JORDAN WATER MASTER 5BR250, WITH 6" PLAIN-END SHOE WITH ATTACHED 6" RESILIENT WEDGE MECHANICAL JOINT VALVE, AND MUST INCLUDE STORZ PUMPER CONNECTION ALONG WITH TWO 2-1/2" HOSE CONNECTIONS. VALVES MUST BE AMERICAN FLOW OR EAST JORDAN (FLOWASTER). ALL SIZES SHOULD BE RESULENT-SEATED KY ALVES.

ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF BOLT-DOWN FRAMES AND LIDS. FLOWMASTER OR AMERICAN FLOW RESILIENT WEDGE GATE VALUES MUST BE USED FOR PRESSURE CONNECTIONS.

VILLAGE OF ROMEOVILLE SANITARY NOTES:

ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUDATION MUST HAVE WATER PROOF, BOLT-DOWN FRAMES AND LIDS.

WHEN UTILITY STRUCTURE ADJUSTMENT IS NECESSARY, A MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THERE RINGS (MIAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER: OUSE ONE (1) ELIMIN INFRA-RISER RUBBER COMPOSITE.

USE AN INTERNAL/EXTERNAL ADAPTOR SEAL ON SANITARY MANHOLES. THE"1/E A" SEAL STOPS INFLOW BETWEEN THE MANHOLE FRAME AND THE TOP ADJUSTING RING AND IT ALSO SEALS THE MANHOLE CHIMNEY FROM THE FRAME TO THE CORBEL. ONE VENDOR OF THIS SEAL IS ADAPTOR IN:

"INTERNAL CHIMNEY SEALS SHALL BE ENVIROLASTIC AR350 OR RAVEN 581 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTROMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOV ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FOR RELEASE ACRETS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDERS. FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH STEEL-SEAM F1910. AFTER ENSURING THAT ALL POCKETS AND SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY AND THE VERTICAL RISER OF THE MANHOCOR ECOR INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILL SHALL BE APPLIED AT A WET MILS SPREADING RATO FOR EVENCE OF TO 10 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS."

SANITARY MANHOLE FRAME AND COVER SHALL BE EAST JORDAN 1022Z3 EMBOSSED WITH "SANITARY" AND "VILLAGE OF ROMEOVILLE". ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MocWrop OR EQUAL. RUBBER GASKETED BOOTS ARE REQUIRED FRO THE MAIN AT THE MANHOLE WALL.

ALL SANITARY MANHOLE CASTINGS, ADJUSTING RINGS AND MANHOLE SECTIONS SHALL BE SET IN BUTYL ROPE OR APPROVED EQUAL. EACH MANHOLE CONE AND BARREL SECTION JOINT SHALL ALSO BE EXTERNALLY SEALED WITH A 6" WIDE SEALING BAND OF RUBBER AND MASTIC. THE RUBBERIZED MASTIC MEETING THE REQUIREMENTS OF ASTM C-877-02 (STANDARD SPECIFICATIONS FOR EXTERNAL SEALING BANDS FOR CONCRETE PIPE, MANHOLES, AND PRECAST BOX SECTIONS). PIPE CONNECTION TO WAND EXISTING MANHOLES THROUGH OPENINGS (CAST OR CORE-DRILLED) SHALL BE PROVIDED WITH A FLEXIBLE RUBBER WATERTICHT CONNECTION CONFORMING TO ASTM C-923 (STANDARD SPECIFICATIONS FOR RESILIENT CONNECTION BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES).

VILLAGE OF ROMEOVILLE STORM NOTES:

STORM SEWER JOINTS MUST BE FLEXIBLE GASKET O-RINGS PER ASTM C361, ASTM C443, AND ASTM C1619.

VILLAGE REQUIRES SUBMISSION OF RECORDED VIDEO INSPECTIONS OF ALL PUBLIC STORM SEWER.

FOR CLOSED LID STURCTURES, FRAME AND COVER SHALL BE EAST JORDAN 1022Z3 EMBOSSED WITH "STORM" AND "VILLAGE OF ROMEOVILLE" ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK"

A MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE.

VILLAGE OF ROMEOVILLE PAVEMENT NOTES:

ALL EXPOSED CURB CORNERS (FOR ISLANDS WITHIN PARKING AREAS) SHOULD INCLUDE A MINIMUM 1' CURB RADIUS.

GRANULAR TRENCH BACKFILL IS REQUIRED WHEN THE TRENCH IS WITHIN TWO FEET OF PAVEMENT OR CURB. THE LIMITS OF ALL GRANULAR (CA-6) TRENCH BACKFILL MUST BE SHOWN ON THE PLANS FOR ALL APPLICABLE PIPE RUNS AND SHOULD ALSO BE ACCOUNTED FOR IN THE COST ESTIMATE.

G&C #19-00

SHEET NO

WHEN SHEET IS PRINTED CORRECTLY, THE ABOVE SCALE IS IN 1" INCREMENTS

SHEET TITLE: GENERAL NOTES and SPECIFICATIONS CHECKED BY-

ACILITY R., ROMEOVILLE, I FACII DR., F

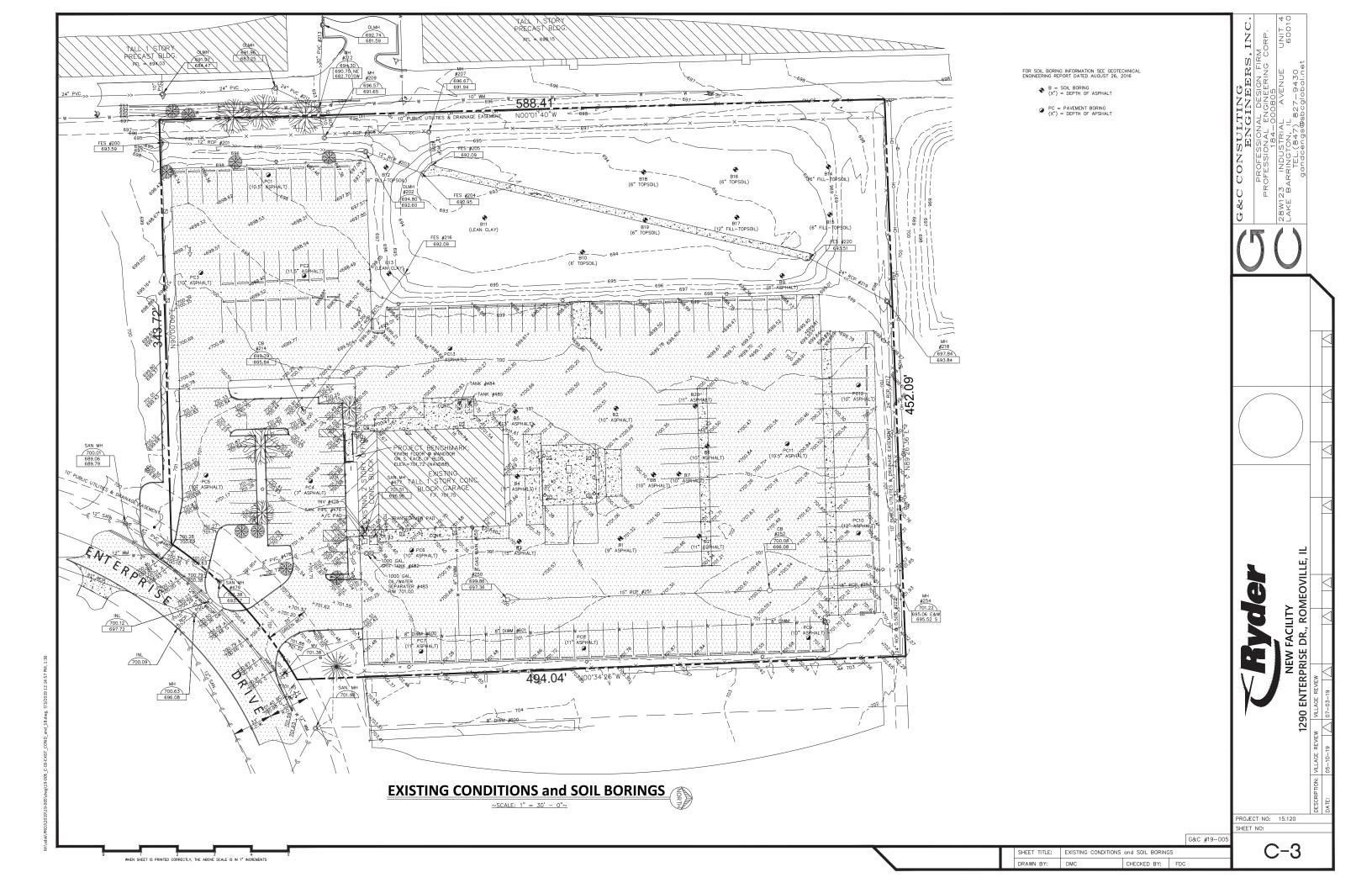
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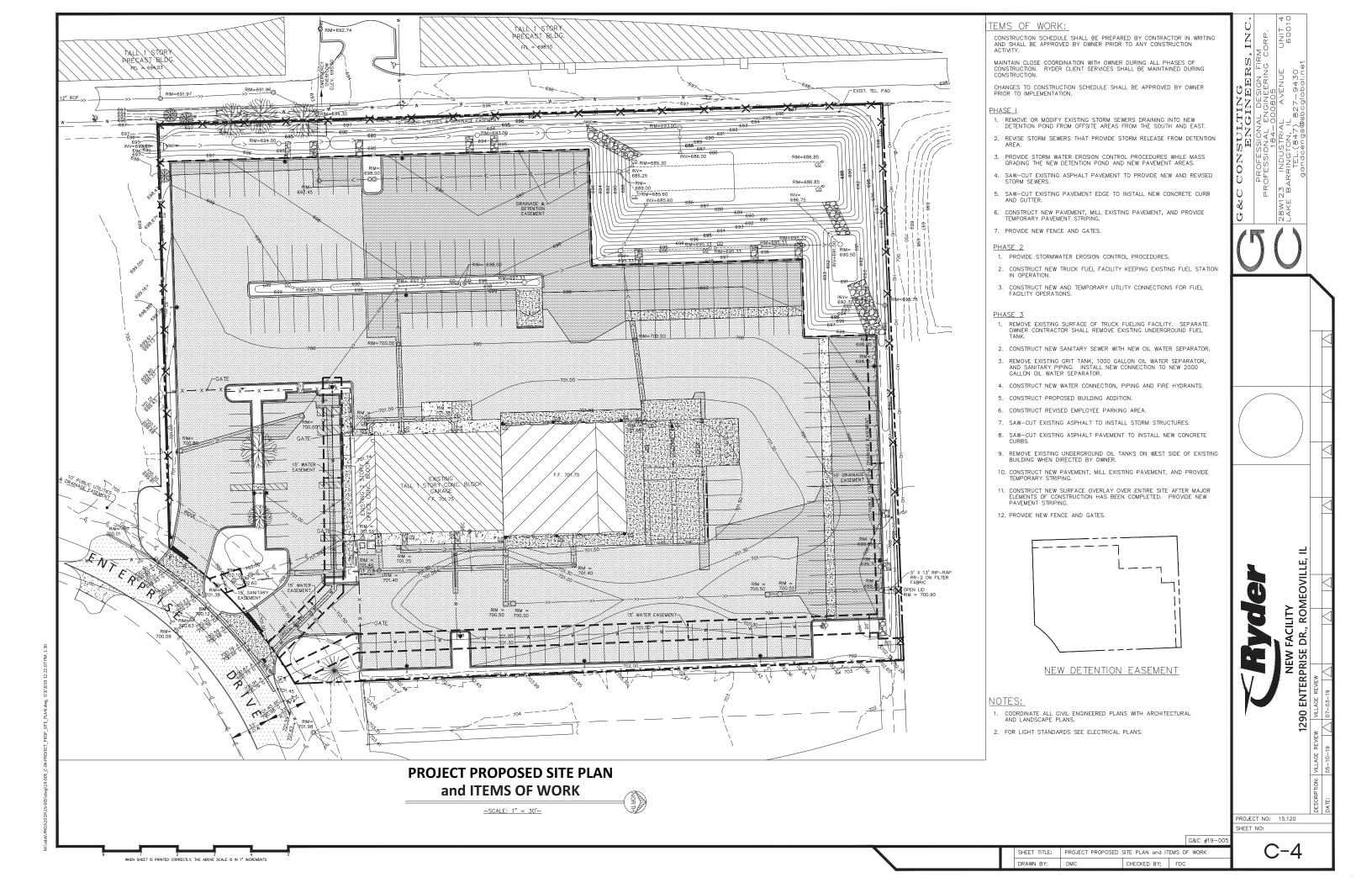
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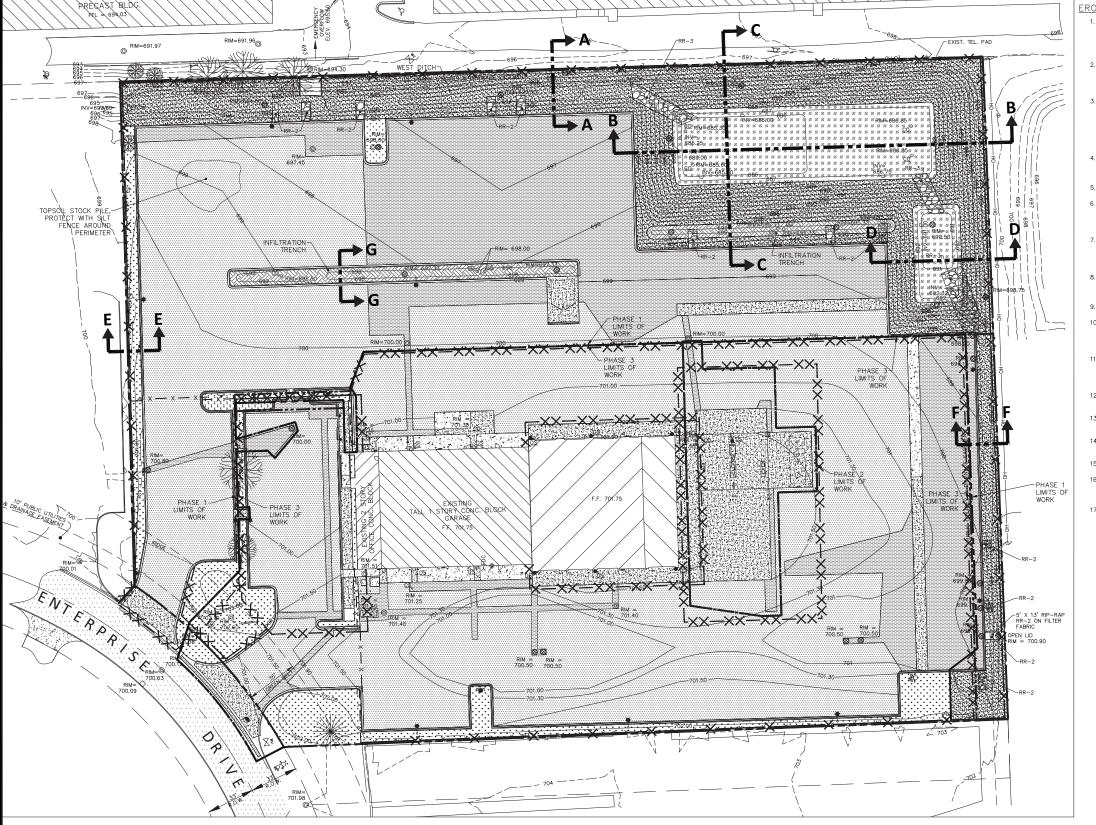
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PROJECT NO: 15.120







ROSION CONTROL NOTES

- - ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES
 OF CONSTRUCTION AND UNTIL ALL LAND DISTURBING AND CONSTRUCTION ACTIVITIES
 HAVE CEASED, ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE
 CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
 - 3. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL AND MANAGEMENT OF ALL WASTES AND UNUSED CONSTRUCTION MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTES AND MATERIALS IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL APPLICABLE REGULATIONS REGARDING WASTE DISPOSAL.
 - 4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AREAS FOR STORAGE OF DISPOSAL OF SOLID, SANITARY, AND TOXIC WASTES, AND VEHICLE OR EQUIPMENT FUELING.

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- 5. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
- 6. THE CONTRACTOR SHALL STOCKPILE TOPSOIL FOR USE IN FINAL LANDSCAPING. THE LOCATION OF THE STOCKPILE AREA SHALL BE DETERMINED BY THE CONTRACTOR, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, AND ALL NECESSARY EROSION AND SEDIMENTATION PREVENTION MEASURES SHALL BE IMPLEMENTED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS, SIDEWALKS, OR RIGHTS-OF-WAY. THE CONTRACTOR MUST USE WATER OR OTHER METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
- 8. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DIRING UNILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED IMMEDIATELY AFFER THE UTILITY INSTALLATION.
- 9. INLET PROTECTION SHALL BE INSTALLED AT ALL STORM DRAINAGE INLETS
- 10. CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT FROM ALL UTILITY STRUCTURES CONTRACTOR SHALL REMOVE ACCOMULATED SEDIMENT FROM ALL OTHER STOCKES PRIOR TO FINAL SITE STABILIZATION. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES OF ANY PERMANENT SEDIMENT CONTROL STRUCTURES WITH THE OWNER.
- 11. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED, OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. ACCUMULATED SEDIMENT SHALL BE PERMANENTLY STABILIZED OR PROPERLY DISPOSED.
- THE APPROVED EROSION CONTROL PLAN MUST BE RETAINED ON-SITE AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.
- ALL CONSTRUCTION AND DEMOLITION DEBRIS WASTE WILL BE DISPOSED OF IN A LEGAL MANNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITS AND EROSION CONTROL ASSOCIATED WITH OFFSITE BORROW OR SPOIL AREAS.
- 15. CONTRACTOR SHALL COMPLY WITH ALL STATE & LOCAL ORDINANCES THAT APPLY.
- 16. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALI BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.25 INCHES OF RAIN PER 24 HOUR PERIOD.
- 17. ALL SLOPES STEEPER THAN 12% SHALL RECEIVE EROSION MAT AND SHALL BE STAKED AS NECESSARY.

LEGEND

LIMITS OF PHASES —XX— SILT FENCE ON CONSTRUCTION FENCE SILT FENCE ON FENCE FILTER BASKET ⊗ ASPHALT PAVEMENT

CONCRETE PAVEMENT

SEEDED EROSION CONTROL BLANKET

STONE POND BOTTOM INFILTRATION TRENCH GRASS/GROUND COVER RIP-RAP ON FILTER FABRIC

FOR QUANTITIES SEE INDIVIDUAL PHASE PLANS

PROPOSED SITE SOIL EROSION CONTROL PLAN

ROMEOVILLE SOIL EROSION NOTES:

- 1. ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE
- 2. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.
- MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
- ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.

~SCALE: 1" = 30'~

- 5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.
- IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS.
- 8. DUST CONTROL MEASURES FOR CONSTRUCTION ACTIVITIES SHALL MINIMIZE SOIL DISTURBANCE, APPLY MULCH AND ESTABLISH VEGETATION, AND WATER SPRAYING. WATER SHALL BE APPLIED AT RATES SO THAT RUNOFF DOES NOT OCCUR.

NOTES:

- 1. FOR SECTIONS SEE SHEET C-6
- 3. FOR PHASE 2 SOIL EROSION CONTROL SEE SHEET C-22
- 5. FOR SOIL EROSION CONTROL DETAILS SEE SHEET C-5B

THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA.

Frank D. Childers FRANK D. CHILDERS
ILLINOIS PROFESSIONAL ENGINEER NO. 0062-024465
MY LICENSE EXPIRES NOVEMBER 30, 2019

C-5A

ROJECT NO: 15.120

ACILITY R., ROMEOVILLE, I

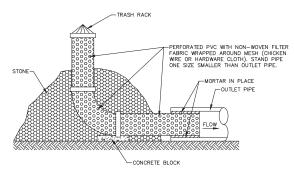
SHEET TITLE: PROPOSED SITE SOIL EROSION CONTROL PLAN

WHEN SHEET IS PRINTED CORRECTLY, THE ABOVE SCALE IS IN 1" INCREMENTS

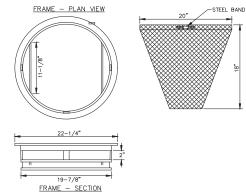
2. FOR PHASE 1 SOIL EROSION CONTROL SEE SHEET C-16

6. FOR STORMWATER POLLUTION PROTECTION PLAN SEE SHEET C-34

CONSTRUCTION ENTRANCE DETAIL



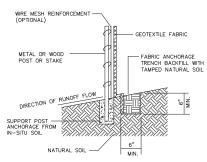
TEMPORARY PERFORATED RISER DETAIL



NOTE: FRAME: TOP FLANGE FABRICATED FROM $1-1/4^{\circ}$ X $1-1/4^{\circ}$ X $1/8^{\circ}$ ANGLE. BASE RIM FABRICATED

GENERAL NOTES:
FROM 1-1/2" x 1/2" CHANNEL HANDLES AND SUSPENSION BRACKETS FABRICATED
FROM 1-1/4" x 1/4" FLAT STOCK. ALL STEEL CONFORMING TO ASTM-A36.
SEDIMENT BAG: BAG FABRICATED FROM 4 0Z /SQ. YD. NON-WOVEN POLYPROPYLENE
GEOTEXTILE FEBRIFORCED WITH POLYSSTER MESH. BAG SECURED TO BASE RIM WITH
A STANNLESS STEEL STRAP AND LOCK.
FILTER FOR OTHER SHAPE GRATES SHALL BE APPROVED IN ADVANCE OF PLACEMENT
BY VILLAGE ENGINEERING.

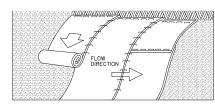
FILTER FOR ROUND OPEN (TYPE 1) GRATE AND FRAME DETAIL



NOTE:

- DEPENDING UPON CONFIGURATION, ATTACH FABRIC TO WIRE MESH WHOCK RINGS, STEEL POSTS W, TIE WIRES, WOOD POSTS W/ NAILS.
 SILT FENCE SHALL BE REMOVED AS DIRECTED BY ENDINEER.
 SILT FENCE SHALL BE MIRAFI PREFABRICATED SILT FENCE OR APPROVED EQUIAL.

TYPICAL SILT FENCE DETAIL

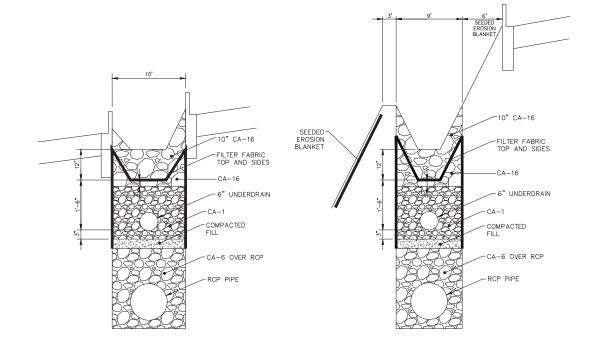


SLOPE INSTALLATION

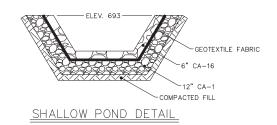
- NOTES:

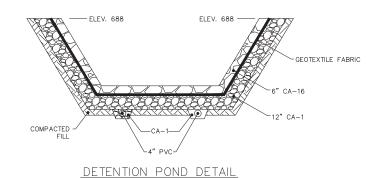
 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
- 2. BEGIN AT THE TOP OF THE SLOPE (OR CHANNEL) BY ANCHORING THE BLANKET IN A 6" DEEP \times 6" MIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- 3. ROLL THE BLANKETS DOWN STARTING AT DOWNSTREAM PROCEEDING UPSTREAM HORIZONTALLY ACROSS THE SLOPE.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH AN APPROXIMATE (MIN.) 4" OVERLAP.
- 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY A (MIN), 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS.
- 6. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WOTH OF THE CHANNEL PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN.
- 7. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

EROSION CONTROL BLANKET DETAIL



INFILTRATION TRENCH



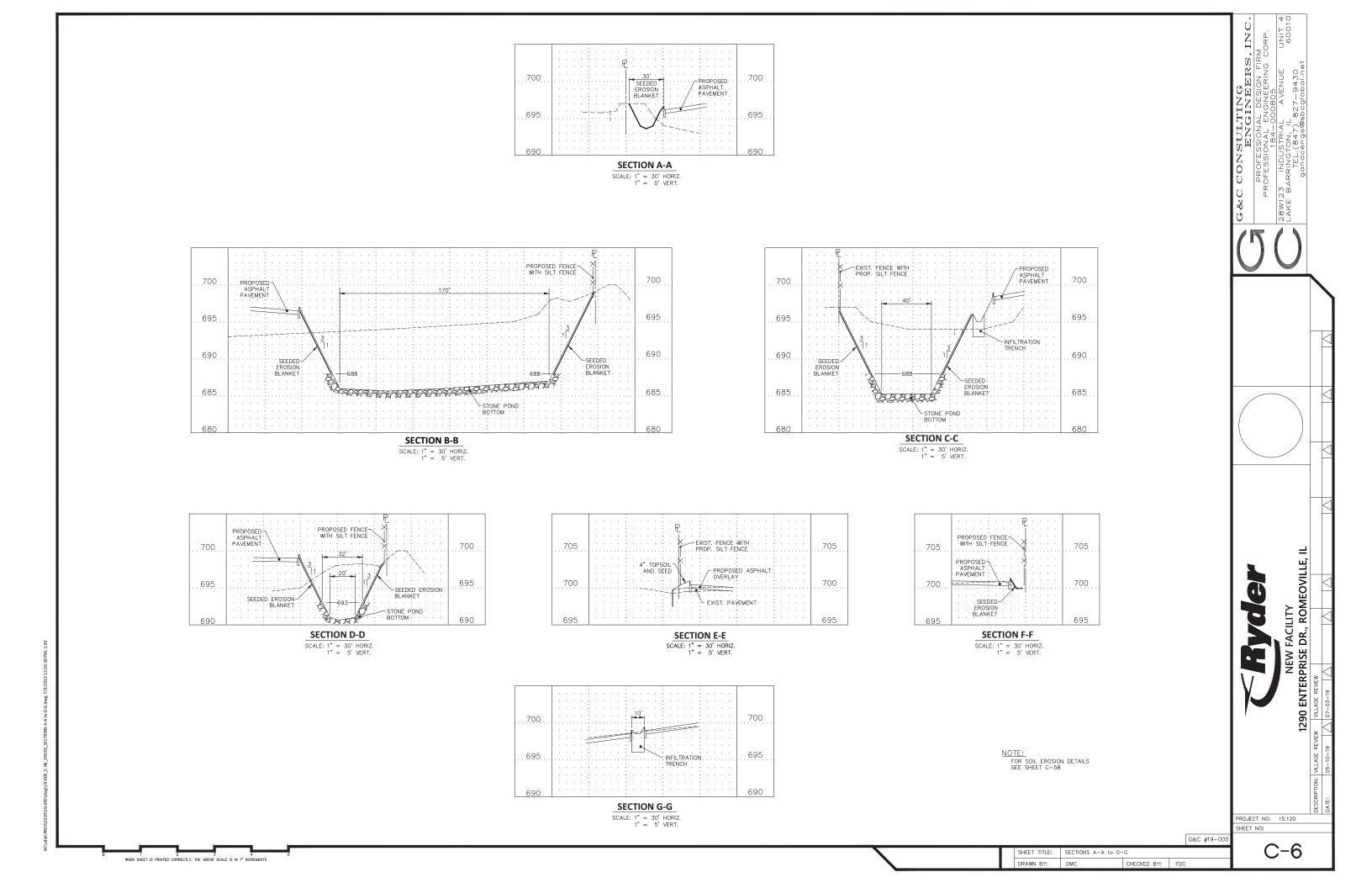


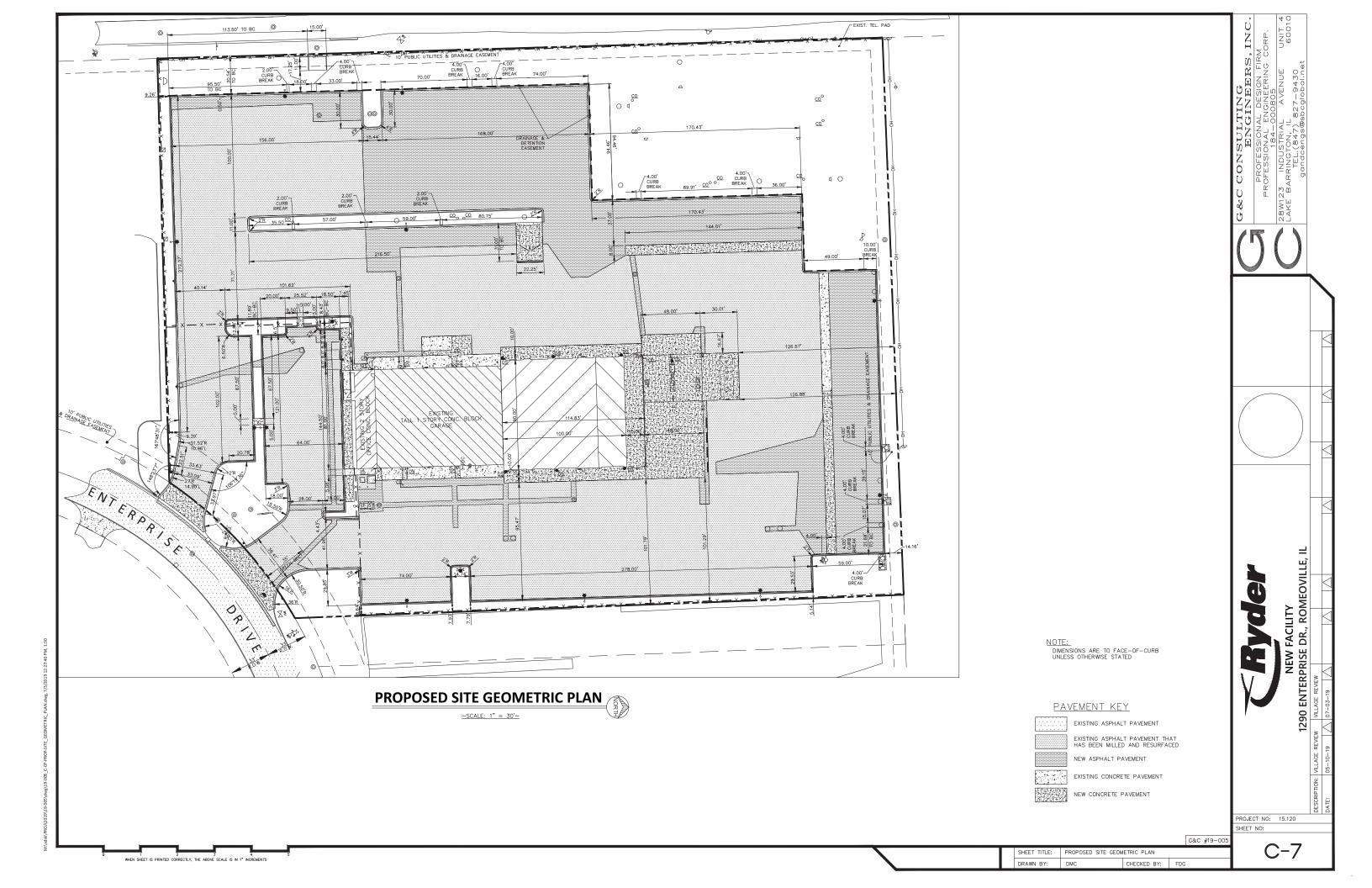
G&C #19-00

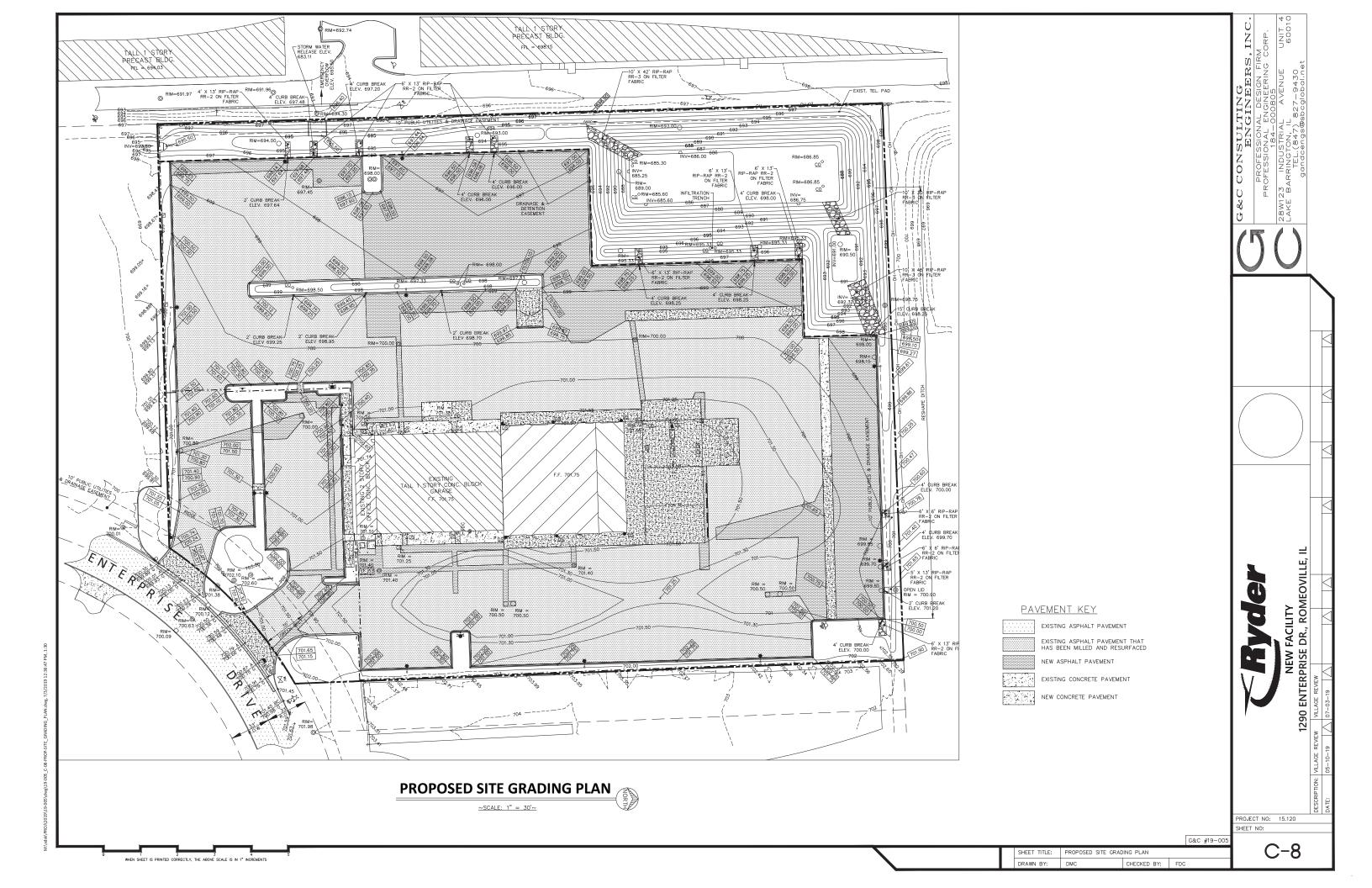
G&C

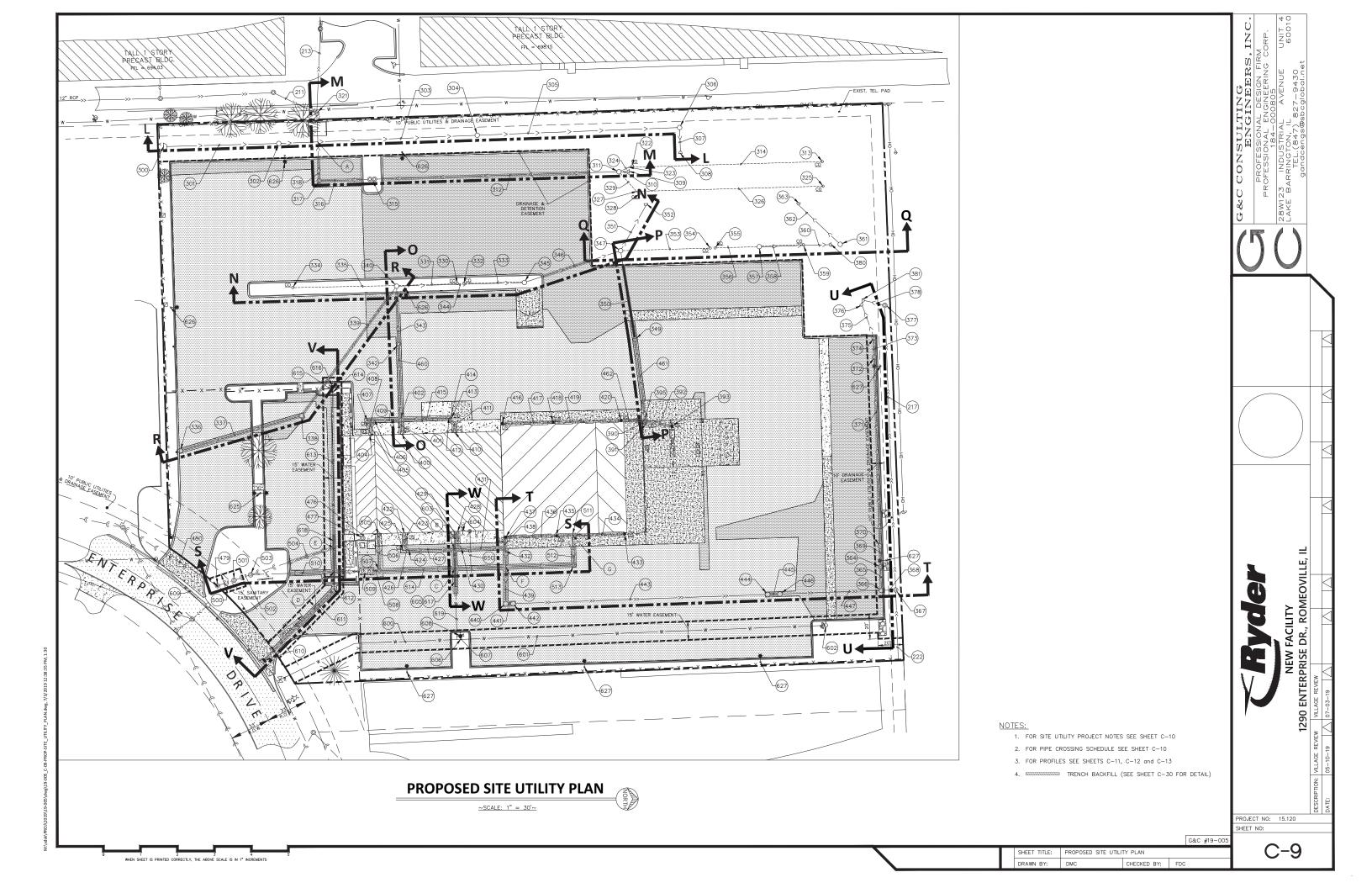
PROJECT NO: 15.120 SHEET NO:

C-5B









STORM SEWER (CONTINUED): INV (12" SE) = 692.36 344. 104 LF PROP. 18" RCP @ 1.00% 345. PROP. 48" CATCH BASIN WITH R4340B BEEHIVE GRATE 347. PROP. 48" CATCH BASIN WITH NEENAH
R4353 BEEHIVE GRATE
RIM = 695.33
INV (24" NW) = 686.21 INV (18" SE) = 688.62 INV (8" E) = 691.54 INV (6" N) = 692.50 = 695.33 RIM = 695.33 INV (6" S) = 692.83 360. 58 LF PROP. 15" RCP @ 1.00% 361. PROP. 60" CATCH BASIN WITH NEENAH R4340B BEEHIVE GRATE = 690.50 366. PROP. 60" STORM MANHOLE

RIM = 699.85

INV (18" N) = 695.58

INV (18" W) = 695.95

367. MODIFIED EXIST. 60" STORM

MANHOLE #254

RIM = 700.90 OPEN LID

INV (18" S) = 695.52

INV (24" E) = 695.06

INV (24" E) = 695.06

368. REMAINING 12 LF EXIST. 18" RCP
#253 © 0.54%

369. 17 LF PROP. 18" RCP © 1.00%

370. PROP. 48" CATCH BASIN 369. 17 LF PROP. 18 RCP @ 1.00%
370. PROP. 48" CATCH BASIN
RIM = 699.85
INV (18" E) = 693.68
INV (18" W) = 693.68
371. 153 LF PROP. 18" RCP @ 0.80%
372. PROP. 48" CATCH BASIN
RIM = 698.15
- 692.75 ⊕ 1.40%
440. PROP. 24" CATCH BASIN
RIM = 700.50
INV (15" N) = 697.36
INV (12" W) = 697.36
441. 6 LF PROP. 15" RCP ⊕ 0.60%
442. PROP. 24" CATCH BASIN
RIM
RIM = 700.50 374. PROP. 60" CATCH BASIN
RIM = 698.00
INV (24" E) = 692.44
INV (24" SW) = 692.44
375. 28 LF PROP. 30" RCP @ 0.40%
376. PROP. FLARED END SECTION
INV (24" NE) = 692.32
377. PROP. 48" OPEN LID STORM
MANHOLE

BIM = 698.75 RIM = 700.50 INV (15" N) = 697.32 INV (15" S) = 697.32 443. REMAINING 207 LF EXIST. 15" RCP (#251) = 698.75

RIM

INV (24" SW) = 692.44 INV (24" E) = 693.84

STORM SEWER (CONTINUED): 378. 20 LF PROP. 24" RCP @ 0.60% PROP. FLARED END SECTION INV (15" S) = 691.00
381. PROP. FLARED END SECTION INV (24" NE) = 692.32390. 5 LF PROP. 8" DIP @ 2.00% 391. PROP. CLEAN-OUT RIM = 701.55 INV (8" E) = 697.69 392. 23 LF PROP. 8" DIP @ 1.00% 393. PROP. DOWNSPOUT, CONNECT TO PROP. PIPE #392

INV (8" SW) = 697.82 395. PROP. INVERTS ROP. INVERTS
INV (8" NW) = 697.59
INV (8" S) = 697.59
INV (8" E) = 697.59
INV (8" W) = 697.59 400. EXIST. DOWNSPOUT, CONNECT TO PROP. 400. EXIST. DOWNSPOOT, CONNECT PIPE #401 INV (8" W.) = 698.48 401. 13 LF PROP. 8" DIP @ 2.00% 402. PROP. INV = 698.22 404. EXIST. DOWNSPOUT, CONNECT TO PROP. PIPE #405 INV (6" W) = 698.65 13 LF PROP. 6" DIP @ 1.00% PROP. INV = 698.62406. PROP. INV = 698.62 407. PROP. CLEAN-OUT RIM = 701.35 INV (6" N) = 698.68 408. 6 LF PROP. 6" DIP @ 1.00% 409. 22 LF PROP. 6" DIP @ 1.27% 410. EXIST. DOWNSPOUT, CONNECT TO PROP. PIPE #411 PIPE #411

INV (6" W) = 698.73

13 LF PROP. 6" DIP @ 1.00% 411. PROP. INV (6") = 698.62 413. PROP. INV (6") = 698.62 413. PROP. CLEAN – OUT RIM = 701.30 INV (6" S) = 698.63 414. 2 LF PROP. 6" DIP @ 0.95% 414. 2 LF PROP. 6" DIP

415. 39 LF PROP. 6" DIP

416. PROP. DOWNSPOUT, CONNECT TO PROP. PIPE #417

INV (8" N) = 698.75

417. 41 LF PROP. 8" DIP

418. PROP. DOWNSPOUT, CONNECT TO PROP. PIPE #417

INV (#419 8" N) = 698.34

INV (#419 8" N) = 698.34

INV (#418 8" S) = 698.34

419. 55 LF PROP. 8" DIP

419. 100 NUNSPOUT, CONNECT TO PROP. PIPE #419 AND #421

INV (#421 8" N) = 697.79

INV (#421 8" N) = 697.79

INV (#419 8" S) = 697.79 422. EXIST. DOWNSPOUT, CONNECT TO PROP. PIPE #423
INV (8" E @ BLDG.) = 698.78
423. 14. LF PROP. 8" DIP @ 1.00%
424. PROP. INV. (@ PIPE #426 & #427) = 698.64
425. PROP. CLEAN-OUT
RIM = 701.25
INV (8" S) = 698.70
426. 5 LF PROP. 8" DIP @ 1.00%
427. 43 LF PROP. 8" DIP @ 1.00%
428. EXIST. DOWNSPOUT, CONNECT TO PROP. PIPE #429
INV (8" E @ BLDG.) = 698.36 PROP. PIPE #42/9
INV (8" E @ BLDG.) = 698.36
429. 14 LF PROP. 8" DIP @ 1.00%
430. PROP. INV (@ PIPE #427 & # 431) 431. 37 LF PROP. 8" DIP ◎ 1.00%
432. PROP. INV (◎ PIPE #439) = 697.85
433. PROP. INV (◎ PIPE #439) = 697.85
433. PROP. DOWNSPOUT, CONNECT TO
PROP. PIPE #438 & #439
INV (8" S) = 698.93
434. 55 LF PROP. 8" DIP ◎ 1.00%
435. PROP. DOWNSPOUT, CONNECT TO PROP.
PIPE #434 AND #436
INV (#434 8" N) = 698.38
INV (#436 8" S) = 698.38
436. 41 LF PROP. 8" DIP ◎ 1.00%
437. PROP. DOWNSPOUT, CONNECT TO PROP.
PIPE #436 AND #438
INV (#436 8" N) = 697.96
INV (#438 12" E) = 697.96
438. 11 LF PROP. 12" DIP STORM SEWER
◎ 1.00%
439. 43 LF PROP. 12" DIP STORM SEWER
◎ 1.40%

@ 1.40%

STORM SEWER (CONTINUED):

444. MODIFIED EXIST. 48" CATCH BASIN (#252)
RIM = 700.50
INV (18" N) = 696.08
INV (15" S) = 696.08
445. 10 LF PROP. 18" RCP ⊚ 0.54%
446. PROP. 48" CATCH BASIN
RIM = 700.50
INV (18" N) = 696.03
INV (18" S) = 696.03
447. REMAINING 82 LF EXIST. 18" RCP (#253)
⊚ 0.54%

SANITARY SEWER:

476. 3 LF EXIST. 6" SANITARY SEWER 477. EXIST. SANITARY MANHOLE RIM = 701.51 INV (6" W) = 696.96 INV (6" SE) = 696.96

460. 60 LF PROP. 8" DIP @ 2.00% 461. 64 LF PROP. 8" DIP @ 2.00% 462. 20 LF PROP. 8" DIP @ 1.00%

479. EXIST. SANITARY MANHOLE
RIM = 701.38
INV (6" NW) = 693.17
INV (6" SW) = 693.17

480. 90 LF EXIST. 6" PVC @ 3.76%

500. REMAINING 14 LF OF EXIST, 6" PVC SANITARY SEWER (#478) © 3.05%
501. PROP. 60" SANITARY INSPECTION
MANHOLE
RIM = 702.10

RIM = 702.10 INV (6" NW) = 693.66 INV (6" SE) = 693.66 502. REMAINING 14 LF OF EXIST. 6" PVC

SOUZ. REMAINING 14 LF OF EXIST. 6 PVC
SANITARY SEWER (#478) Ø 3.05%
503. PROP. 48" SANITARY MANHOLE
RIM = 702.60
INV (6" N) = 694.09
INV (6" NW) = 694.09
INV (6" SE) = 694.09
504. REMAINING 95 LF OF EXIST. 6" PVC
SANITARY SEWER (#478) Ø 3.05%

SANITARY SEWER (#478) @ 3.05% 505. INV (6" E @ BLDG) = 696.79 506. 30 LF PROP. 6" PVC SDR26 @ 2.00% 507. PROP. 48" SANITARY MANHOLE

507. PROP. 46" SANITARY MANHOLE
RIM = 701.40
INV (6" N) = 695.44
INV (6" S) = 695.49
INV (6" W) = 696.49
508. 5 LF PROP. 6" PVC SDR26 @ 1.00%
509. PROP. 1000 GALLON OIL/WATER
SEPARATOR = 701.45

RIM = 701.45 INV (6" N) = 695.44 INV (6" S) = 695.11 510. 85 LF PROP. 6" PVC SDR26 @ 1.00%

PROP. INV (6" E @ BLDG.) = 697.34
25 LF PROP. 6" PVC SDR26 @ 1.00%
PROP. 48" SANITARY MANHOLE

RIM = 701.40 INV (6" S) = 697.07 INV (6" W) = 697.07 514. 158 LF PROP. 6" PVC SDR26 @ 1.00%

WATER:

600. EXIST. 8" DIWM 600. EXIST. 8" DIWM 601. EXIST. 8" DIWM 602. MODIFIED EXIST. FIRE HYDRANT RAISE FLANGE TO ELEV. 702.15 PROVIDE 2 BOLLARDS 603. REMAINING 12 LF EXIST. 6" DIWM

CONNECTED TO BUILDING 6" DIWM
#605
604. EXIST. FIRE DEPARTMENT CONNECTION

605. 40 LF PROP. 6" DIWM (SEE SHEET

C-13 PROFILE W-W)

606. PROP. 8" X 6" CUT-IN TEE

607. 3 LF PROP. 6" DIWM

608. PROP. FIRE HYDRANT WITH 3 BOLLARDS (SEE SHEET C-32 FOR

DETAIL)

609. EXIST. 12" DIWM

610. PROP. 60" VALVE VAULT WITH 12" X

8" PRESSURE CONNECTION WITH 8"
VALVE
RIM = 700.87
80 LF PROP. 8" DIWM PROP. 135' BEND (TYP. __)
160 LF PROP. 8" DIWM
PROP. 8" X 6" CONCENTRIC REDUCER

4 LF PROP. 6" DIWM PROP. FIRE HYDRANT WITH 3 BOLLARDS (SEE SHEET C-32 FOR DETAIL)

617. 40 LF PROP. CASING FOR 6" DIWM 618. 40 LF PROP. CASING FOR 8" DIWM 619. REMAINING 30 LF EXIST. 6" DIWM

ELECTRICAL:

625. MODIFIED EXIST. SINGLE STREET LIGHT TO A DOUBLE (SEE ELECTRICAL

PLANS)
626. PROP. STREET LIGHT (TYP. 4 DURING PHASE 1) (SEE ELECTRICAL PLANS) 627. PROP. STREET LIGHT (TYP. 5 DURING PHASE 3) (SEE ELECTRICAL PLANS)

GAS:

650. EXIST. GAS MAIN (SEE "M" MECHANICAL DRAWINGS)

DIDE ODOCCINO COLIEDIJE

	PIPE CRUSSING S	<u> </u>	-
MARK	PIPE TYPE AND SIZE	ELEVATION	DIFFERENCE
А	24" RCP STORM SEWER (#303)	B/P 689.84	5.33
^	15" RCP STORM SEWER (#318)	T/P 684.51	3.33
В	8" DIP STORM SEWER (#427)	B/P 698.29	4.20'
ь	6" DI WATER LINE (#605)	T/P 694.09	4.20
С	6" PVC SANITARY SEWER (#514)	B/P 696.09	2.00'
·	6" DI WATER LINE (#605)	T/P 694.09	2.00
D	6" PVC SANITARY SEWER (#510)	B/P 694.74	1.55
	8" DI WATER LINE (#613)	T/P 693.19	1.55
Е	6" PVC SANITARY SEWER (#504)	B/P 696.13	2.94'
_	8" DI WATER LINE (#613)	T/P 693.19	2.34
F	12" DIP STORM SEWER (#439)	B/P 697.70	0.69'
'	6" PVC SANITARY SEWER (#514)	T/P 697.01	0.09
G	8" DIP STORM SEWER (#434)	B/P 698.93	1.09'
٥	6" PVC SANITARY SEWER (#512)	T/P 697.84	1.09

PROFE! Ü 28W123 LAKE BA υ 8

CILITY R., ROME DR.,

ENTERP 90

PROJECT NO: 15.120 SHEET NO:

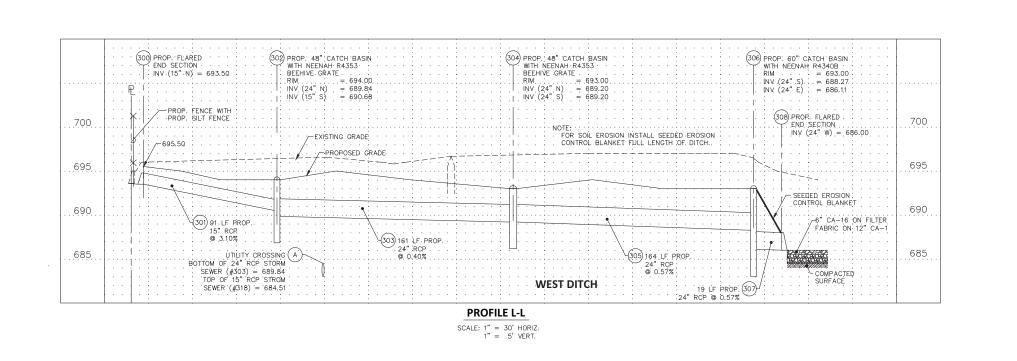
C-10

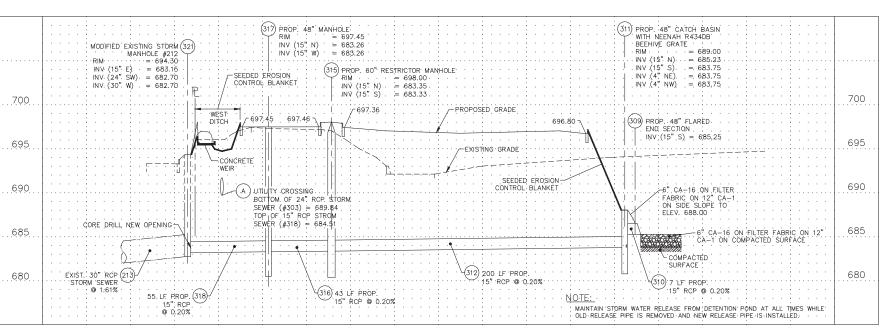
G&C #19-00

RIM = 700.00 INV (12" NW) = 695.84 INV (12" SE) = 696.28 339. REMAINING 130 LF OF MODIFIED EXIST.

12" RCP (#215) @ 2.70%

SHEET TITLE: PROPOSED SITE UTILITY PROJECT NOTES CHECKED BY: FDC DRAWN BY: DMC





PROFILE M-M SCALE: 1" = 30' HORIZ. 1" = 5' VERT.

> G&C #19-005 SHEET TITLE: UTILITY PROFILES L-L to M-M CHECKED BY: FDC

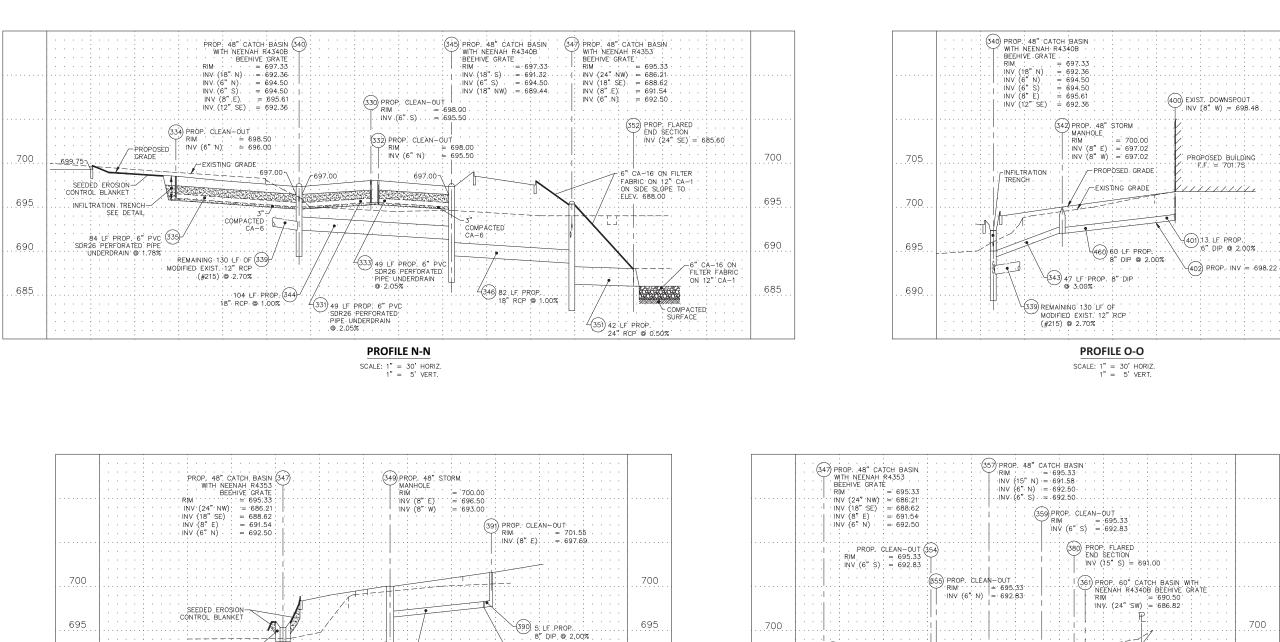
SHEET NO: C-11

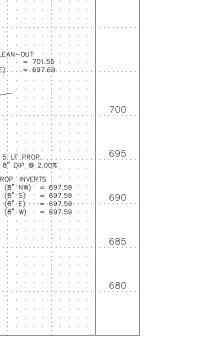
PROJECT NO: 15.120

NEW FACILITY ENTERPRISE DR., ROMEOVILLE, IL

G&C CONSULTING
ENGINEERS, INC
PROFESSIONAL DESIGN FIRM
PROFESSIONAL ENGINEERING CORP.
184-000805
NAW123 INDUSTRIAL AVENUE GOOD!

28W123 INDU LAKE BARRING TEL





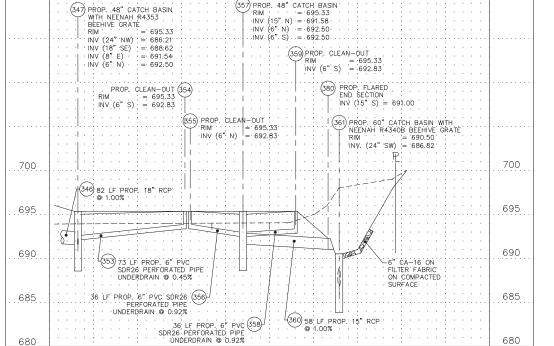


(461) 64 LF PROP.

350 73. LF PROP. 8" DIP. © 2.00%

8" DIP @ 2.00%

(395) PROP. INVERTS



PROFILE Q-Q SCALE: 1" = 30' HORIZ. 1" = 5' VERT.

NEW FACILITY ENTERPRISE DR., ROMEOVILLE, IL PROJECT NO: 15,120 SHEET NO:

CONSULTING
ENGINEERS, INC
PROFESSIONAL DESIGN FIRM
PROFESSIONAL DESIGN FIRM
184-000805
INDUSTRIAL AVENUE CORP.

2 %

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705

7,00

695

690

123 INDI E BARRING TEL

G&C #19-005

SHEET TITLE: UTILITY PROFILES N-N to Q-Q

WHEN SHEET IS PRINTED CORRECTLY, THE ABOVE SCALE IS IN 1" INCREMENTS

690

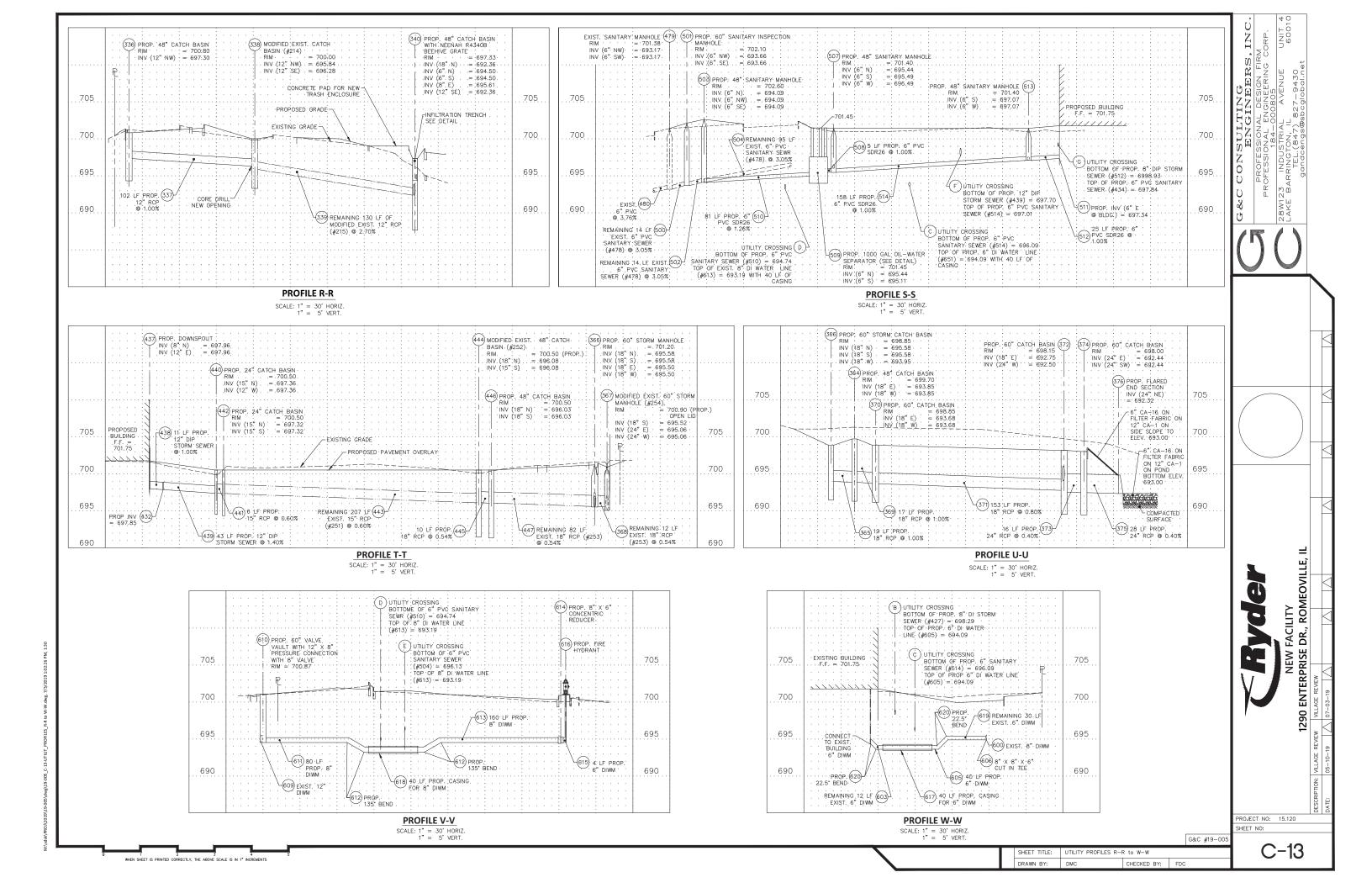
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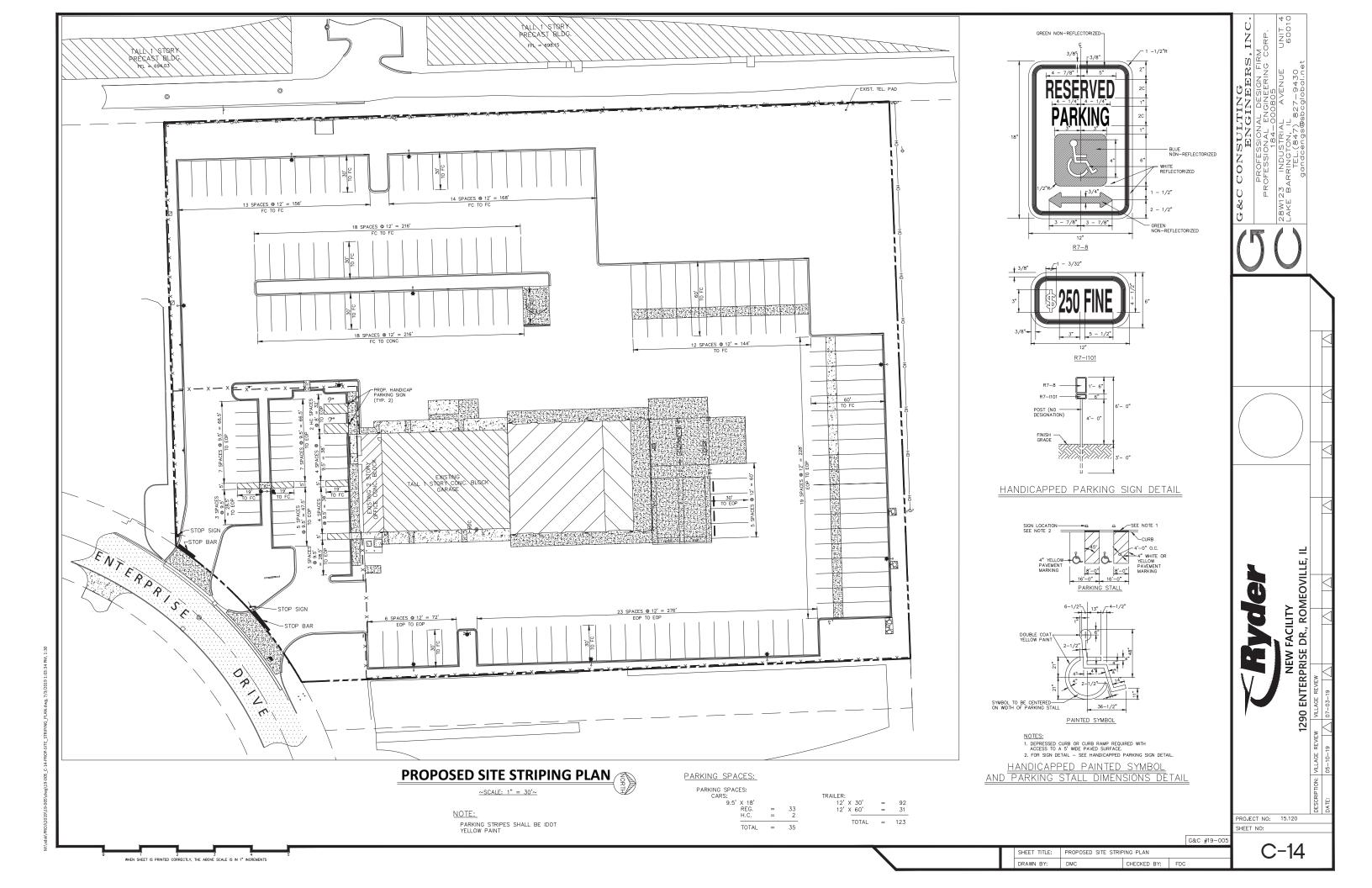
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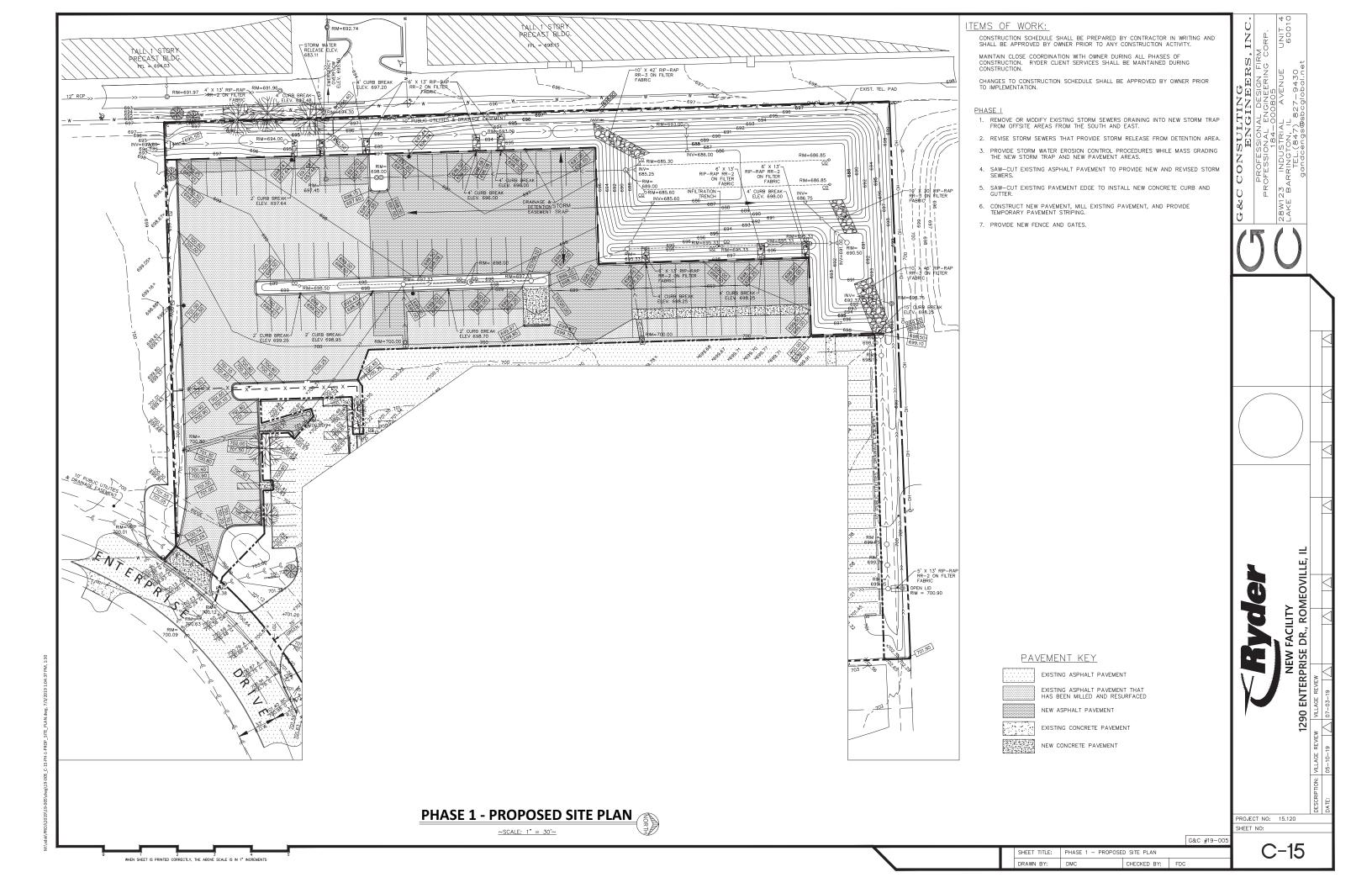
INFILTRATION TRENCH—

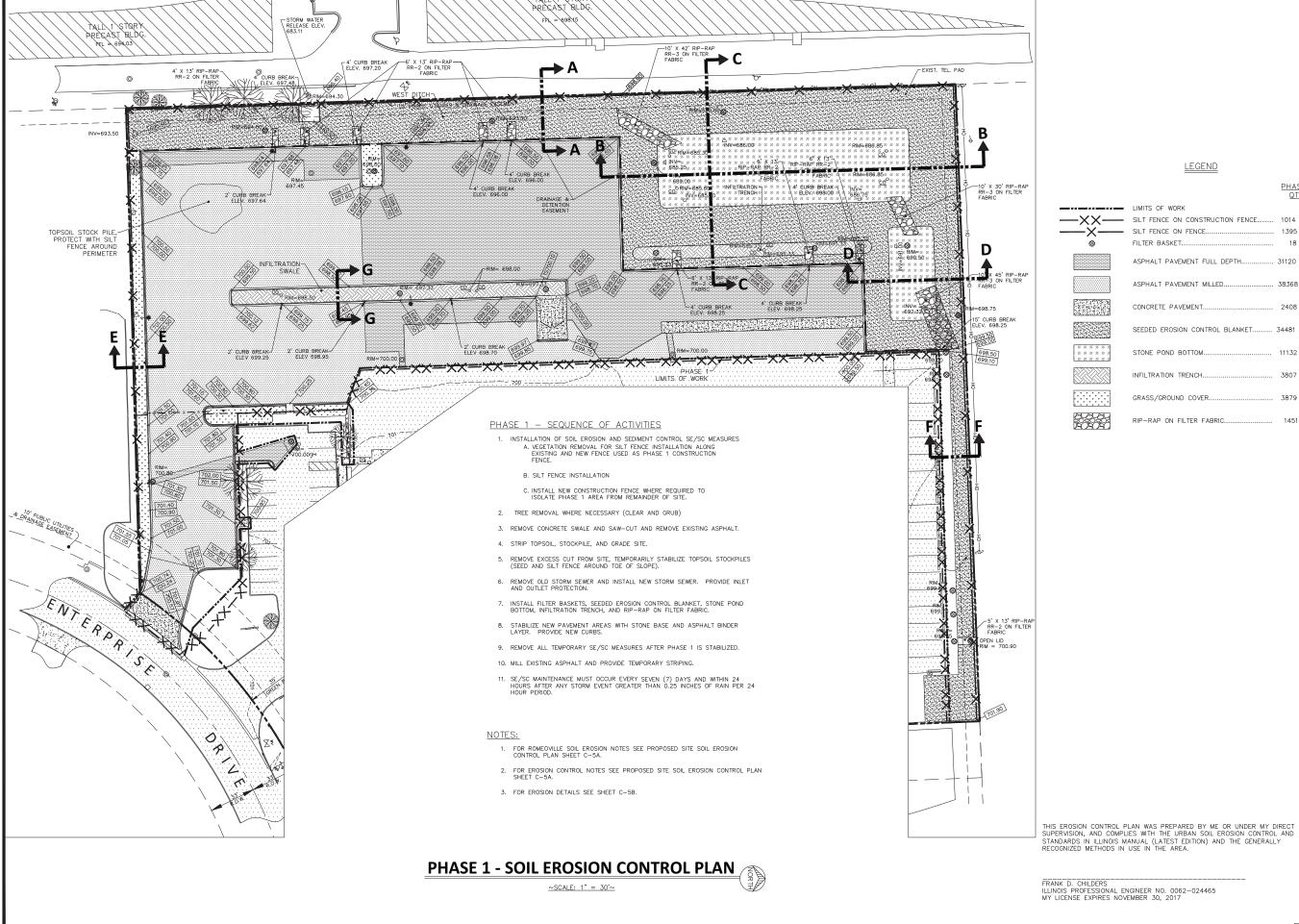
CHECKED BY:

C-12









WHEN SHEET IS PRINTED CORRECTLY, THE ABOVE SCALE IS IN 1" INCREMENTS

PHASE 1 QTY. 1395 LF 18 EA ASPHALT PAVEMENT FULL DEPTH 31120 SF 38368 SF 2408 SF SEEDED EROSION CONTROL BLANKET...... 34481 SF 11132 SF 3807 SF 3879 SF 1451 SF

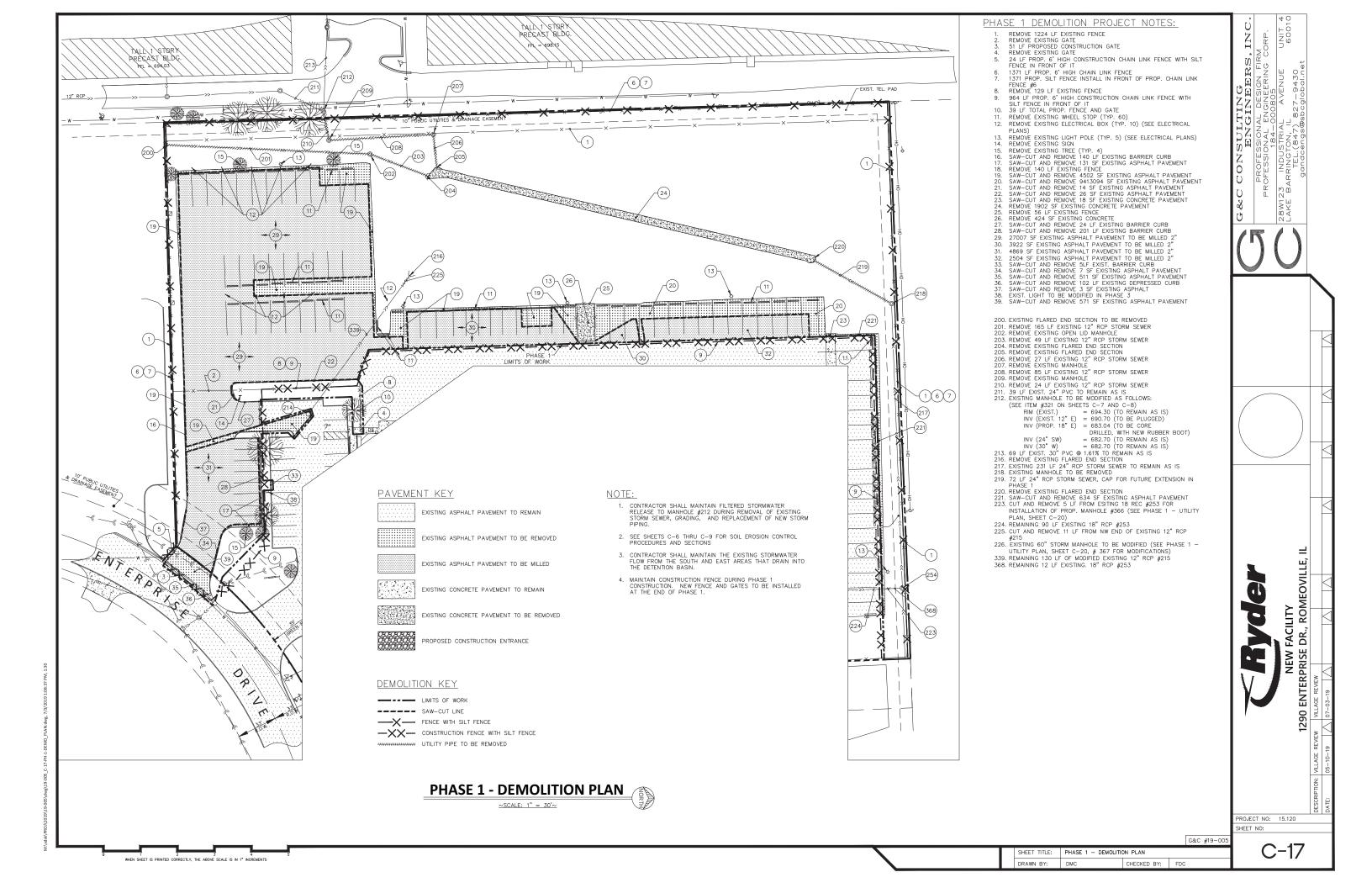
SHEET TITLE: PHASE 1 - SOIL EROSION CONTROL PLAN CHECKED BY: FDC C-16

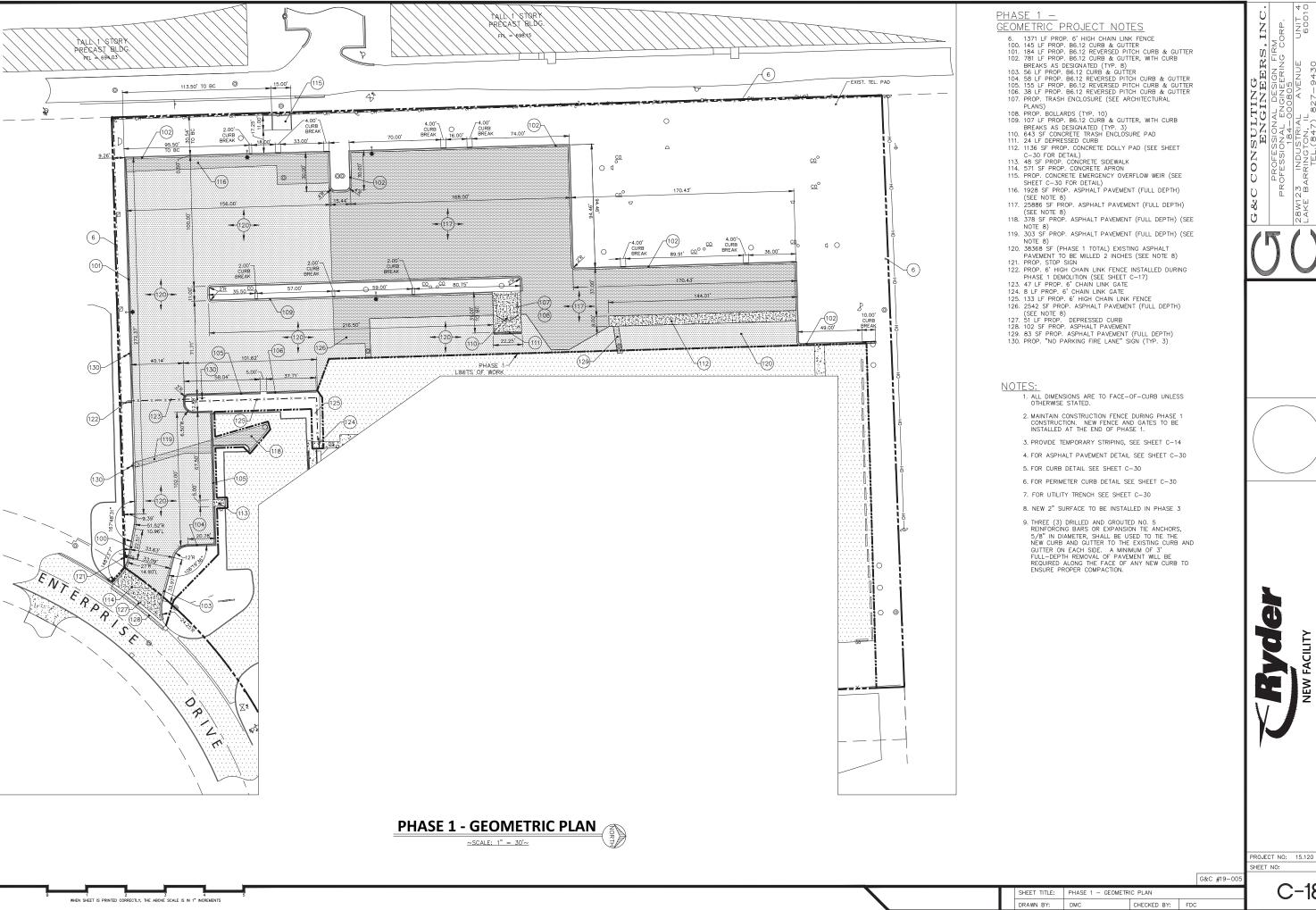
PROJECT NO: 15.120 SHEET NO:

ROMEOVILLE,

CONSULT

& C



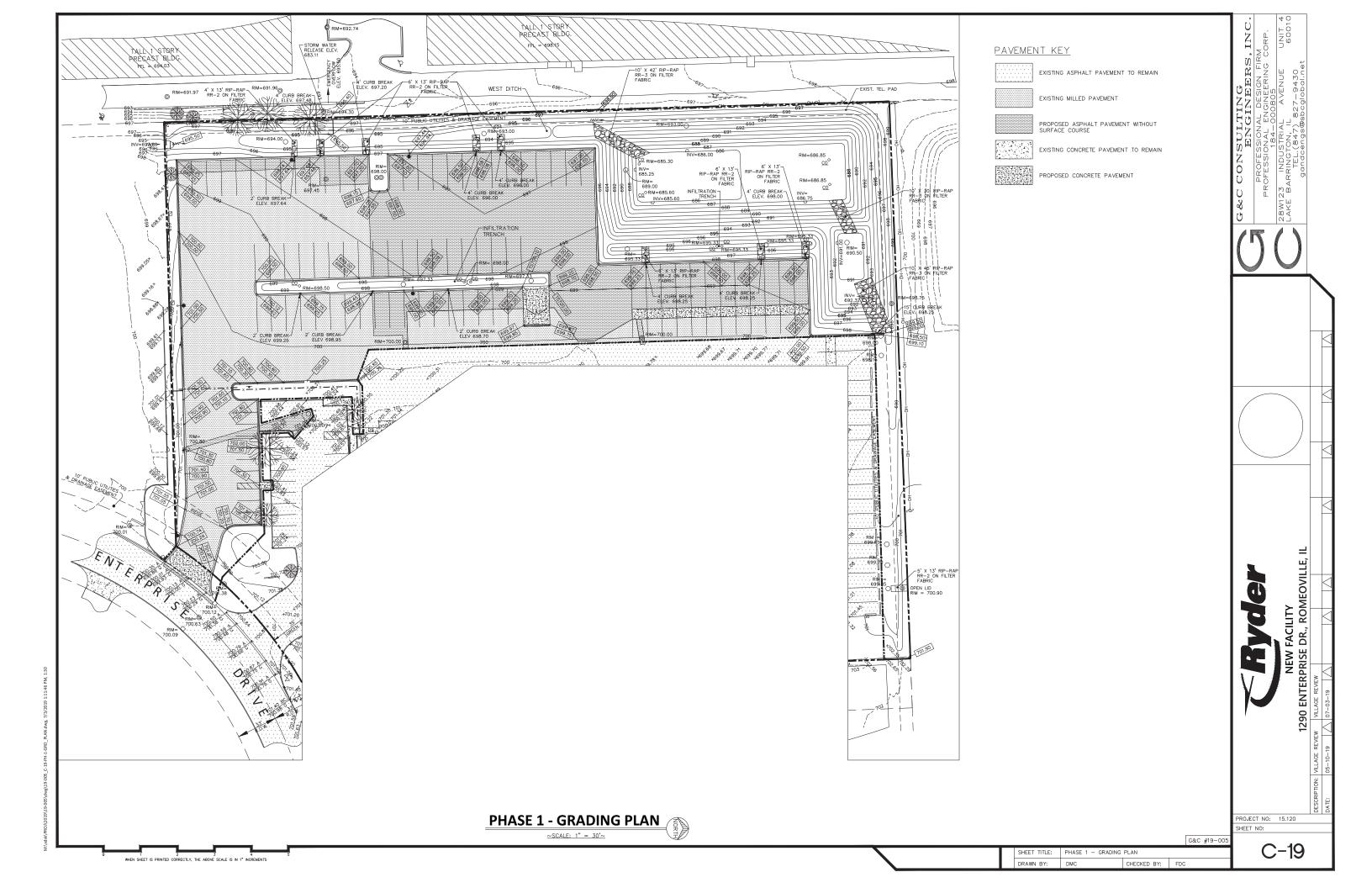


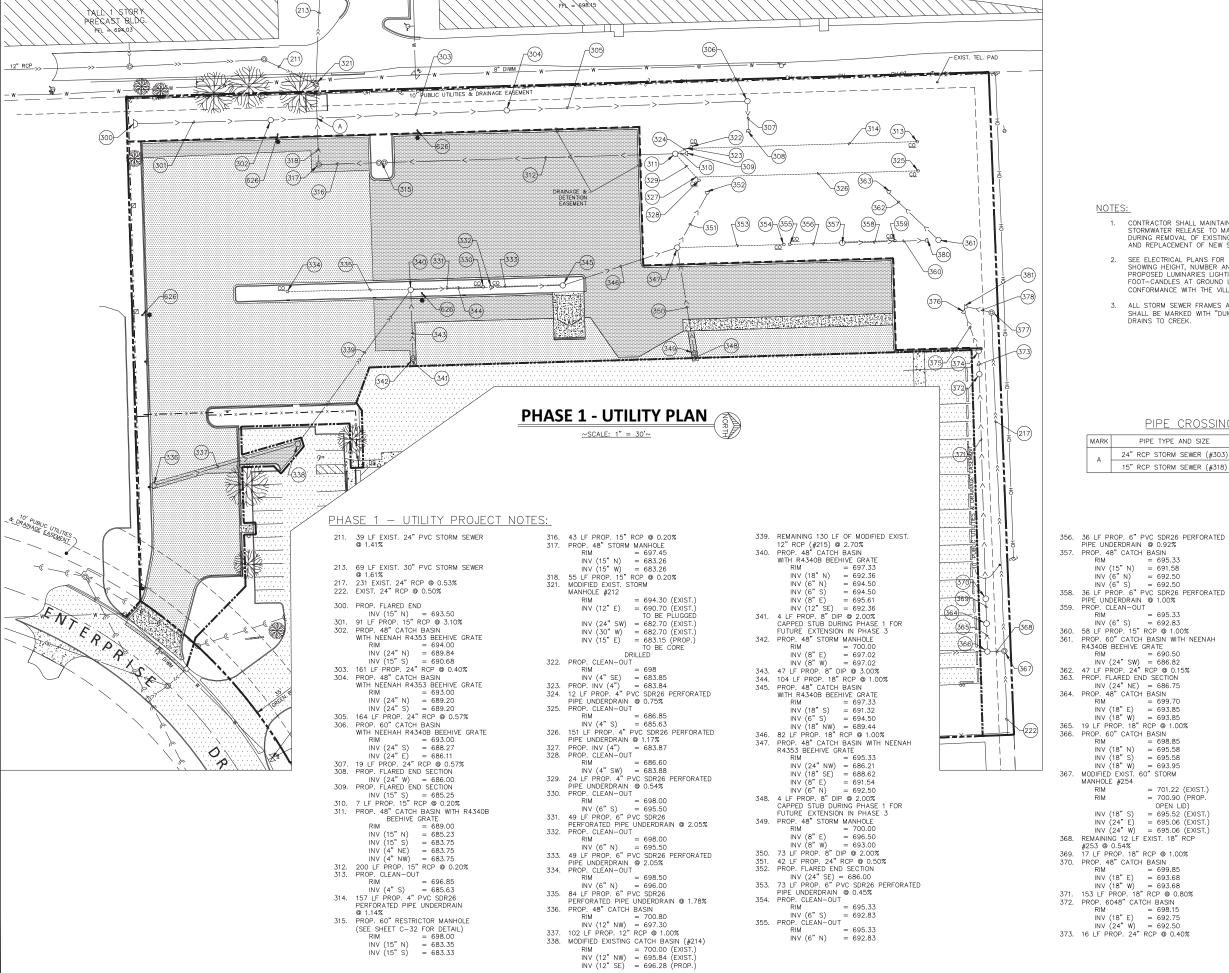
123 INDU

NEW FACILITY ENTERPRISE DR., ROMEOVILLE,

SHEET NO:

C-18





- CONTRACTOR SHALL MAINTAIN FILTERED STORMWATER RELEASE TO MANHOLE #321 DURING REMOVAL OF EXISTING STORM SEWER AND REPLACEMENT OF NEW STORM PIPING.
- SEE ELECTRICAL PLANS FOR PHOTOMETRIC PLAN SHOWING HEIGHT, NUMBER AND ORIENTATION OF PROPOSED LUMINARIES LIGHTING LEVELS IN FOOT—CANDLES AT GROUND LEVEL IN CONFORMANCE WITH THE VILLAGE'S ORDINANCE.
- ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND DRAINS TO CREEK.

PIPE CROSSING SCHEDULE

MARK	PIPE TYPE AND SIZE	ELEVATION	DIFFERENCE
	24" RCP STORM SEWER (#303)	B/P 689.84	5.33'
^	15" RCP STORM SEWER (#318)	T/P 684.51	5.55

356. 36 LF PROP. 6" PVC SDR26 PERFORATED PIPE UNDERDRAIN @ 0.92%
357. PROP. 48" CATCH BASIN RIM = 695.33

RIM = 699.70 INV (18" E) = 693.85

= 698.85 RIM = 698.85 INV (18" N) = 695.58 INV (18" S) = 695.58 INV (18" W) = 693.95

MODIFIED EXIST. 60" STORM MANHOLE #254 = 701.22 (EXIST.)

RIM = 698.15 INV (18" E) = 692.75 INV (24" W) = 692.50 373. 16 LF PROP. 24" RCP @ 0.40%

374. PROP. 60" CATCH BASIN
RIM = 698.00
INV (24" E) = 692.44
INV (24" SW) = 692.44
375. 28 LF PROP. 24" RCP ⊚ 0.40%
376. PROP. FLARED END SECTION
INV (24" NE) = 692.32
377. PROP. 48" OPEN LID STORM
MANHOLE
RIM = 698.75
INV (24" SW) = 692.44

MANHOLE

RIM = 698.75

INV (24" SW) = 692.44

INV (24" E) = 693.84

378. 20 LF PROP. 24" RCP ⊕ 0.60%

380. PROP. FLARED END SECTION

INV (15" S) = 691.00

381. PROP. FLARED END SECTION

SECTION SECTION

SECTION SECTION

INV (24" NE) = 692.32

626. PROP. STREET LIGHT (TYP. 4) (SEE ELECTRICAL PLANS)

FACILITY • NEW F ENTERPRISE I

ROMEOVILLE, IL

DR.,

CONSULTING
ENGINE
PROFESSIONAL DES
ROFESSIONAL DES
1084-000805
3 INDUSTRIAL AVE

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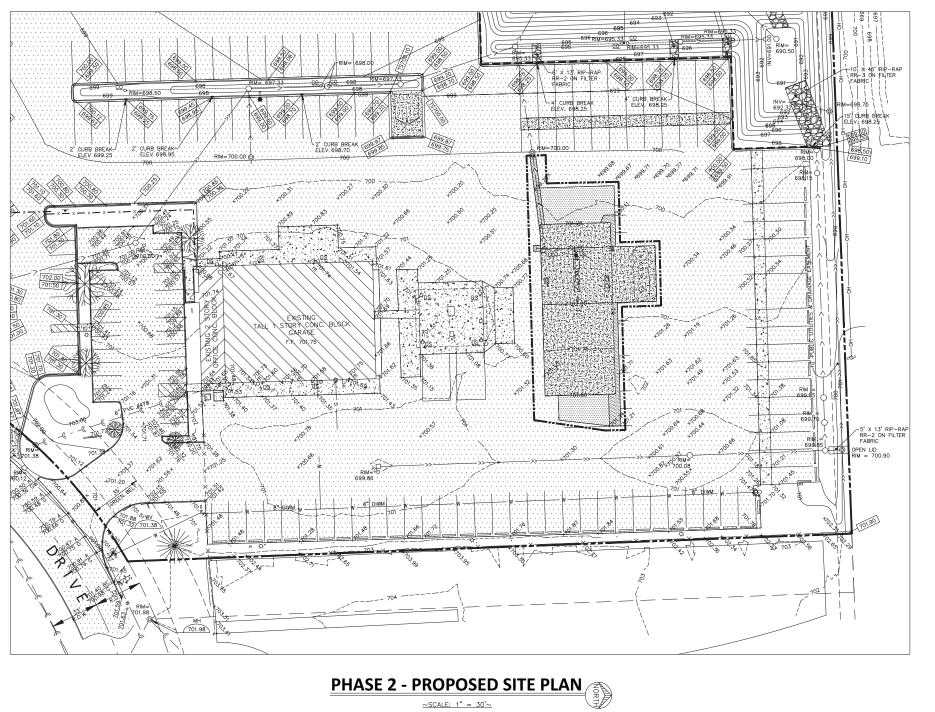
085

PROJECT NO: 15.120 SHEET NO:

G&C #19-00

C-20

SHEET TITLE: PHASE 1 - UTILITY PLAN CHECKED BY:



ITEMS OF WORK:

MAINTAIN CLOSE COORDINATION WITH OWNER DURING ALL PHASES OF CONSTRUCTION. RYDER CLIENT SERVICES SHALL BE MAINTAINED DURING CONSTRUCTION.

CHANGES TO CONSTRUCTION SCHEDULE SHALL BE APPROVED BY OWNER PRIOR TO IMPLEMENTATION.

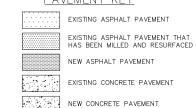
PHASE 2

CONSTRUCT NEW TRUCK FUEL FACILITY KEEPING EXISTING FUEL STATION IN OPERATION.

NOTES:

MAINTAIN TRUCK ACCESS TO EXISTING FUEL STATION DURING CONSTRUCTION OF NEW FUEL STATION.

PAVEMENT KEY



LIMITS OF PHASE 2 CONSTRUCTION

G&C #19-005

C-21

PROJECT NO: 15.120 SHEET NO:

G&C CONSULTING ENGINEERS, INC

SHEET TITLE: PHASE 2 - PROPOSED SITE PLAN CHECKED BY: FDC

PHASE 2 - SOIL EROSION CONTROL PLAN

~SCALE: 1" = 30'~

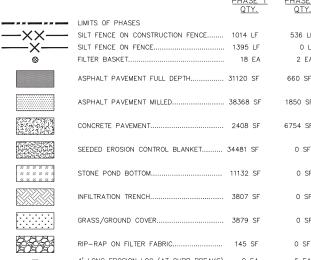
PHASE 2 - SEQUENCE OF ACTIVITIES:

- INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
 - A. SILT FENCE INSTALLATION
 - B. INSTALL NEW CONSTRUCTION FENCE WHERE REQUIRED TO ISOLATE PHASE 2 AREA FROM REMAINDER OF SITE.
- REMOVE EXCESS CUT FROM, SITE TEMPORARILY STABILIZE
 TOPSOIL STOCKPILES (SEED AND SILT FENCE AROUND TOE OF
 SLOPE).
- 3. INSTALL NEW STORM SEWER
- 4. INSTALL FUEL ISLAND.
- REMOVE ALL TEMPORARY SE/SC MEASURES AFTER PHASE 2 IS STABILIZED.
- SE/SC MAINTENANCE MUST OCCUR EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN .25 INCHES OR FAIN PER 24 HOUR PERIOD.

NOTES:

- FOR ROMEOVILLE SOIL EROSION NOTES SEE PROPOSED SITE SOIL EROSION CONTROL PLAN SHEET C-5A.
- 2. FOR EROSION CONTROL NOTES SEE PROPOSED SITE SOIL EROSION CONTROL PLAN SHEET C-5A.
- 3. FOR SOIL EROSION CONTROL DETAILS SEE SHEET C-5B

<u>LEGEND</u>



PHASE 2 QTY. 536 LF 0 LF 2 EA 660 SF 1850 SF 0 SF 0 SF 0 SF 0 SF 0 SF 4' LONG EROSION LOG (AT CURB BREAKS). O EA 5 EA

&C

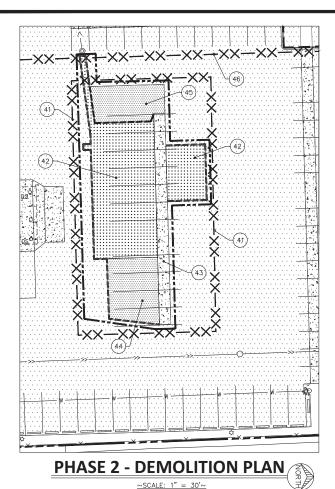
THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA.

FRANK D. CHILDERS ILLINOIS PROFESSIONAL ENGINEER NO. 0062-024465 MY LICENSE EXPIRES NOVEMBER 30, 2017

C-22

PROJECT NO: 15.120 SHEET NO:

SHEET TITLE: PHASE 2 - SOIL EROSION CONTROL PLAN CHECKED BY: FDC



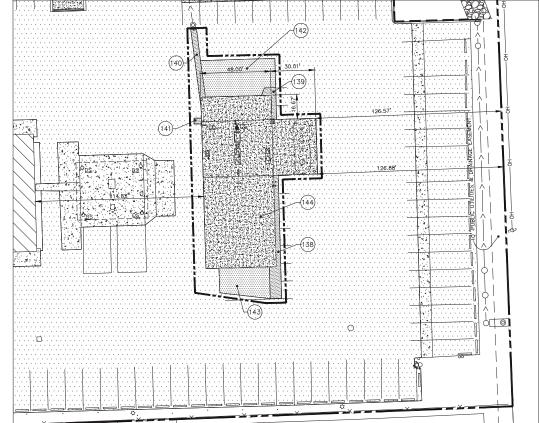
PHASE 2 - DEMOLITION PROJECT NOTES:

- 41. 537 LF PROPOSED 6' HIGH CONSTRUCTION CHAIN LINK FENCE WITH SILT FENCE IN FRONT OF IT
 42. SAW-CUT AND REMOVE 5263 SF (TOTAL) EXISTING ASPHALT PAVEMENT (FULL DEPTH)
 43. REMOVE 1107 SF EXISTING CONCRETE PAVEMENT
 44. 1497 SF EXIST. ASPHALT PAVEMENT TO BE MILLED 2"
 46. 964 LF PROPOSED 6' HIGH CONSTRUCTION CHAIN LINK FENCE #9 TO BE REMOVED

DEMOLITION KEY

SAW-CUT LINE

-XX- CONSTRUCTION FENCE WITH SILT FENCE



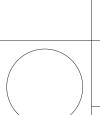
<u>Phase 2 - Project</u> GEOMETRIC NOTES:

138. 361 SF PROP. ASPHALT PAVEMENT (FULL DEPTH) 139. 98 SF PROP. ASPHALT PAVEMENT (FULL DEPTH) 140. 186 SF PROP. ASPHALT PAVEMENT (FULL DEPTH)

141. 20 SF PROP. ASPHALT PAYEMENT (FULL DEPTH) 142. 1190 SF PROP. ASPHALT SURFACE 143. 659 SF PROP. ASPHALT SURFACE 144. 6754 SF PROP. CONCRETE PAVEMENT

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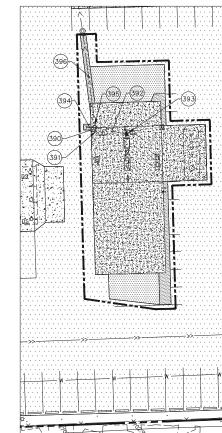


NEW FACILITY ENTERPRISE DR., ROMEOVILLE, IL

PROJECT NO: 15.120

SHEET NO:

PHASE 2 - GEOMETRIC PLAN ~SCALE: 1" = 30'~



PHASE 2 - UTILITY PROJECT NOTES:

ASE Z — UTILITY PROJEC

390. 5 LF PROP. 8" DIP @ 2.00%

391. PROP. CLEAN—OUT
RIM = 701.55
INV (8" E) = 697.69

392. 23 LF PROP. 8" DIP @ 1.00%

393. PROP. DOWNSPOUT, CONNECT TO
PROP. PIPE #392
INV (8" SW) = 697.82

394. 6 LF PROP. 8" DIP @ 1.00%
CAPPED STUB DURING PHASE 2 FOR
FUTURE EXTENSION IN PHASE 3

395. PROP. INVERTS
INV (8" NW) = 697.59
INV (8" S) = 697.59
INV (8" E) = 697.59
INV (8" W) = 697.59
396. 60 LF PROP. 8" DIP @ 2.00%

PHASE 2 - UTILITY PLAN ~SCALE: 1" = 30'~

PHASE 2 - GRADING PLAN

~SCALE: 1" = 30'~

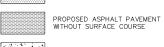
PHASE 2 - DEMOLITION, GEOMETRIC, GRADING and UTILITY PLAN CHECKED BY: FDC

WHEN SHEET IS PRINTED CORRECTLY, THE ABOVE SCALE IS IN 1" INCREMENTS

PAVEMENT KEY

EXISTING MILLED PAVEMENT

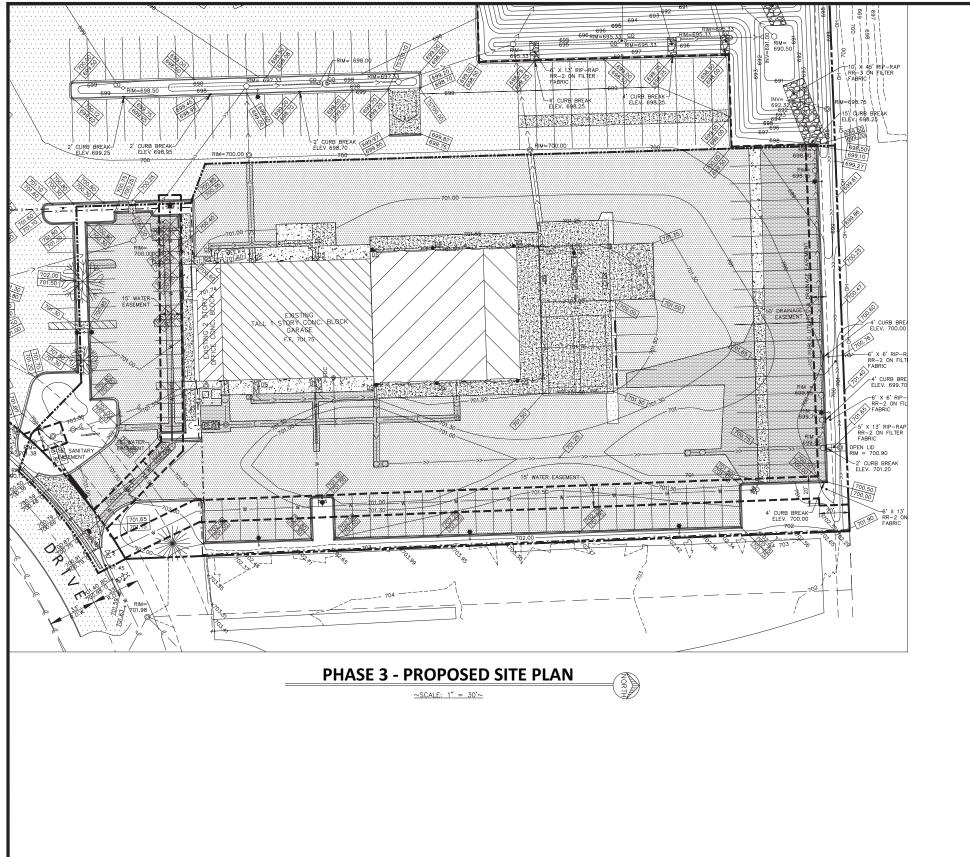
EXISTING ASPHALT PAVEMENT



EXISTING CONCRETE PAVEMENT TO REMAIN



PROPOSED CONCRETE PAVEMENT



ITEMS OF WORK:

CONSTRUCTION SCHEDULE SHALL BE PREPARED BY CONTRACTOR IN WRITING AND SHALL BE APPROVED BY OWNER PRIOR TO ANY CONSTRUCTION ACTIVITY.

MAINTAIN CLOSE COORDINATION WITH OWNER DURING ALL PHASES OF CONSTRUCTION. RYDER CLIENT SERVICES SHALL BE MAINTAINED DURING CONSTRUCTION.

CHANGES TO CONSTRUCTION SCHEDULE SHALL BE APPROVED BY OWNER PRIOR TO IMPLEMENTATION.

PHASE 3

- 1. REMOVE EXISTING SURFACE OF TRUCK FUELING FACILITY. SEPARATE OWNER CONTRACTOR SHALL REMOVE EXISTING UNDERGROUND FUEL TANK.
- 2. INSTALL NEW SANITARY SEWER.
- 3. CONSTRUCT PROPOSED BUILDING ADDITION.
- 4. CONSTRUCT REVISED EMPLOYEE PARKING AREA.
- 5. SAW-CUT EXISTING ASPHALT TO INSTALL STORM SEWER SYSTEMS. INSTALL NEW WATERMAIN AND FIRE HYDRANTS.
- 6. SAW-CUT EXISTING ASPHALT PAVEMENT TO INSTALL NEW CONCRETE CURBS.
- 7. CONSTRUCT NEW PAVEMENT, MILL EXISTING PAVEMENT, AND PROVIDE TEMPORARY STRIPING.
- 8. CONSTRUCT NEW SURFACE OVERLAY OVER ENTIRE SITE AFTER MAJOR ELEMENTS OF CONSTRUCTION HAS BEEN COMPLETED. PROVIDE NEW PAVEMENT STRIPING.
- 9. PROVIDE NEW FENCE AND GATES.

G&C CONSULTING ENGINEERS, INC. PROFESSIONAL DESIGN FIRM PROFESSIONAL ENGINEERING CORP. 184-000805 184-000805 28W123 INDUSTRIAL AVENUE UNIT 4 LAKE BARRINGTON, IL LAKE BARRINGTON, IL LAKE BARRINGTON, IL GOOTO gandcangs@sbcglobal.net		
ENGINEERS, I PROFESSIONAL DESIGN FIRM PROFESSIONAL DESIGN FIRM 184-000805 28W123 INDUSTRIAL AVENUE LAKE BARRINGTON, IL 1EAKE BARRINGTON, IL 1EL(847) 827-9430 gandcengs@sbcglobdi.net		G&C CONSULTING
PROFESSIONAL DESIGN FIRM PROFESSIONAL ENGINEERING CO 1840–00805 ENGINEERING CO 28W123 INDUSTRIAL AVENUE LAKE BARRINGTON, IL SEL (847) 827–9430 gandcengs@sbcglobdi.net		ENGINEERS, INC.
PROFESSIONAL ENGINEERING CO 184-00805 28W123 INDUSTRIAL AVENUE LAKE BARRINGTON. IL TEL.(847) 827-9430 gendeengs@sbeglobdi.net	-	PROFESSIONAL DESIGN FIRM
184-000805 28W123 INDUSTRIAL AVENUE L LAKE BARRINGTON, IL TEL (847) 827-9430 gandcengs@sboglobal.net	3	PROFESSIONAL ENGINEERING CORP.
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TEL.(847) 827-9430 gandcengs@sbcglobal.net		-AKE BARRINGTON, IL 60010
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		gandcengs@sbcglobal.net

PROJECT NO: 15.120

SHEET NO:

C-24

SHEET TITLE: PHASE 3 - PROPOSED SITE PLAN CHECKED BY:

PHASE 3 - SOIL EROSION CONTROL PLAN

<u>LEGEND</u>

		PHASE 1 QTY.	PHASE 2 QTY.	PHASE 3 QTY.
	LIMITS OF PHASES			
$\times\times-$	SILT FENCE ON CONSTRUCTION FENCE	1014 LF	536 LF	896 SF
—×—	SILT FENCE ON FENCE	1395 LF	0 LF	0 SF
⊗	FILTER BASKET	18 EA	2 EA	2 EA
	ASPHALT PAVEMENT FULL DEPTH	31120 SF	660 SF	9066 SF
	ASPHALT PAVEMENT MILLED	38368 SF	1850 SF	76144 SF
	CONCRETE PAVEMENT	2408 SF	6754 SF	5986 SF
	SEEDED EROSION CONTROL BLANKET	34481 SF	0 SF	0 SF
	STONE POND BOTTOM	11132 SF	0 SF	0 SF
	INFILTRATION TRENCH	3807 SF	0 SF	0 SF
	GRASS/GROUND COVER	3879 SF	0 SF	10777 SF
	RIP-RAP ON FILTER FABRIC	145 SF	0 SF	67 SF
-	4' LONG EROSION LOG (AT CURB BREAKS).	O EA	5 EA	2 EA

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128W123 INDUSTRIAL AVENU

FACILITY DR., ROMEOVILLE,

PROJECT NO: 15.120

SHEET NO:

FRANK D. CHILDERS ILLINOIS PROFESSIONAL ENGINEER NO. 0062-024465 MY LICENSE EXPIRES NOVEMBER 30, 2017

THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL EROSION CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA.

NOTES:

- FOR ROMEOVILLE SOIL EROSION NOTES SEE PROPOSED SITE SOIL EROSION CONTROL PLAN SHEET C-5A.
- 2. FOR EROSION CONTROL NOTES SEE PROPOSED SITE SOIL EROSION CONTROL PLAN SHEET C-5A.

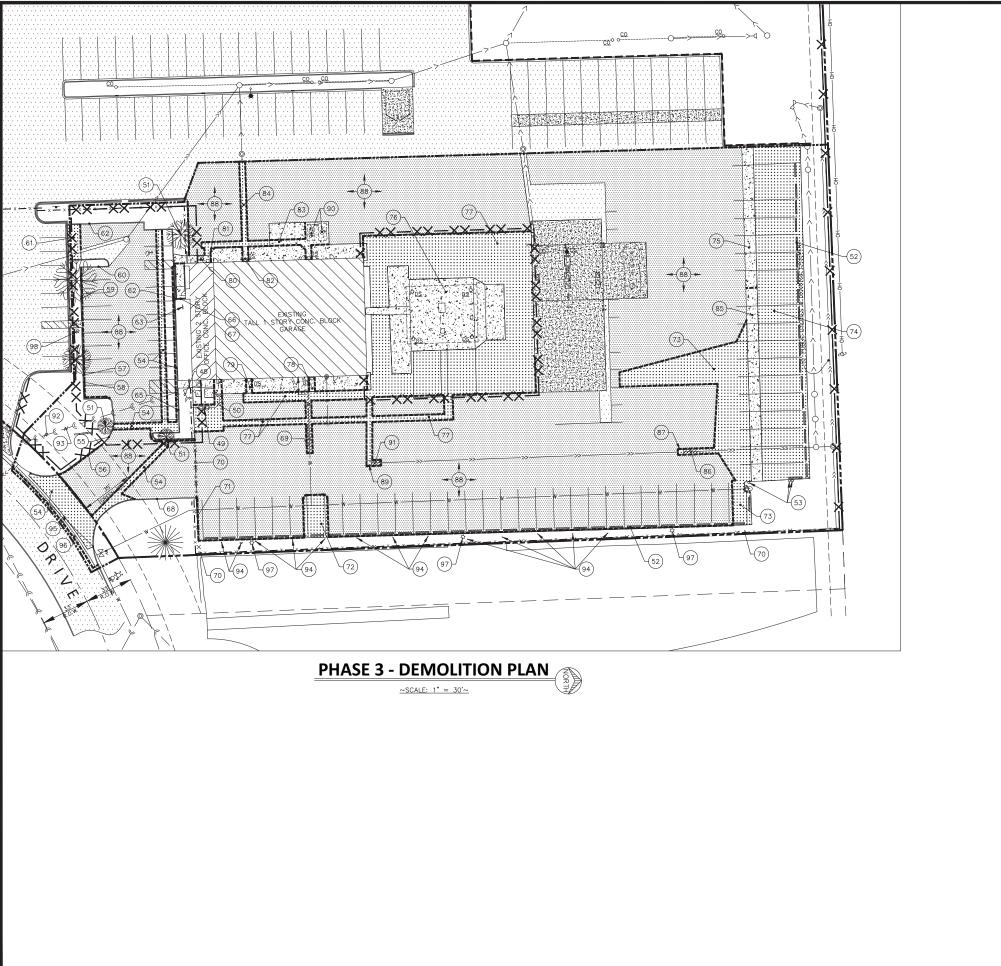
PHASE 3 - SEQUENCE OF ACTIVITIES:

- INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
 A. VEGETATION REMOVAL FOR SILT FENCE INSTALLATION ALONG EXISTING AND NEW FENCE USED AS PHASE 3 CONSTRUCTION FENCE.
 - B. SILT FENCE INSTALLATION
 - C. INSTALL NEW CONSTRUCTION FENCE WHERE REQUIRED TO ISOLATE PHASE 3 AREA FROM REMAINDER OF SITE.
- 2. TREE REMOVAL WHERE NECESSARY (CLEAR AND GRUB)
- REMOVE EXCESS CUT FROM SITE, TEMPORARILY STABILIZE TOPSOIL STOCKPILES (SEED AND SILT FENCE AROUND TOE OF SLOPE).
- 4. INSTALL NEW SANITARY AND STORM SEWER
- 5. CONSTRUCT NEW BUILDING ADDITION.
- 6. INSTALL REVISED FRONT PARKING LOT.
- 7. REMOVE ALL TEMPORARY SE/SC MEASURES AFTER PHASE 1 AND PHASE 2 IS STABILIZED.
- 8. MILL EXISTING ASPHALT AND PROVIDE FINAL PAVEMENT AND STRIPING FOR ALL PHASES.
- SE/SC MAINTENANCE MUST OCCUR EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN .25 INCHES OF RAIN PER 24 HOUR PERIOD.

SHEET TITLE: PHASE 3 - SOIL EROSION CONTROL PLAN CHECKED BY: FDC

WHEN SHEET IS PRINTED CORRECTLY, THE ABOVE SCALE IS IN 1" INCREMENTS

C-25



PHASE 3 DEMOLITION PROJECT NOTES:

48. REMOVE 20 LF EXIST, SANITARY SEWER
49. REMOVE EXIST, 1000 GAL. OIL/WATER SEPARATOR #483 AND 1000 GAL. GRIT TANK #482
50. REMOVE EXIST. TANK #482
51. REMOVE EXIST. TREE (TYP. 3)
52. REMOVE EXIST. WHEEL STOP (TYP. 51)
53. REMOVE EXIST. WHEEL STOP (TYP. 51)
54. SAW—CUT AND REMOVE 199 SF EXIST ASPHALT PAVEMENT 55. SAW—CUT AND REMOVE 6 SF ASPHALT PAVEMENT 55. SAW—CUT AND REMOVE 6 SF ASPHALT PAVEMENT 57. SAW—CUT AND REMOVE 6 SF ASPHALT PAVEMENT 59. SAW—CUT AND REMOVE 6 SF ASPHALT PAVEMENT 60. SAW—CUT AND REMOVE 84 LF EXIST. CURB 58. SAW—CUT AND REMOVE 84 LF EXIST. CURB 61. SAW—CUT AND REMOVE 86 LF EXIST. ASPHALT PAVEMENT 60. SAW—CUT AND REMOVE 86 LF EXIST. ASPHALT PAVEMENT 61. SAW—CUT AND REMOVE 86 LF EXIST. CURB 61. SAW—CUT AND REMOVE 702 SF EXIST. ASPHALT PAVEMENT 62. SAW—CUT AND REMOVE 702 SF EXIST. CURB 63. REMOVE 79 SF EXIT. CURB 66. REMOVE 79 SF EXIT. CURB 66. REMOVE 61 LF EXIST. RAILING 66. SAW—CUT AND REMOVE 90 LF EXIST. CURB 66. SAW—CUT AND REMOVE 90 LF EXIST. CURB 67. SAW—CUT AND REMOVE 70 SF EXIST. ASPHALT PAVEMENT 72. SAW—CUT AND REMOVE 59 SF EXIST. ASPHALT PAVEMENT 72. SAW—CUT AND REMOVE 59 SF EXIST. ASPHALT PAVEMENT 73. SAW—CUT AND REMOVE 559 SF EXIST. ASPHALT PAVEMENT 74. 7319 SF EXIST. ASPHALT PAVEMENT 75. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 76. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 78. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 79. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 79. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 79. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 79. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 79. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 79. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 79. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 79. SAW—CUT AND REMOVE 40 SF EXIST. CONCRETE PAVEMENT 79. SAW—CUT AND REMOVE 50 SF EXIST.

DEMOLITION KEY

SAW-CUT LINE

-X- FENCE WITH SILT FENCE -XX- CONSTRUCTION FENCE

HHHH UTILITY PIPE TO BE REMOVED

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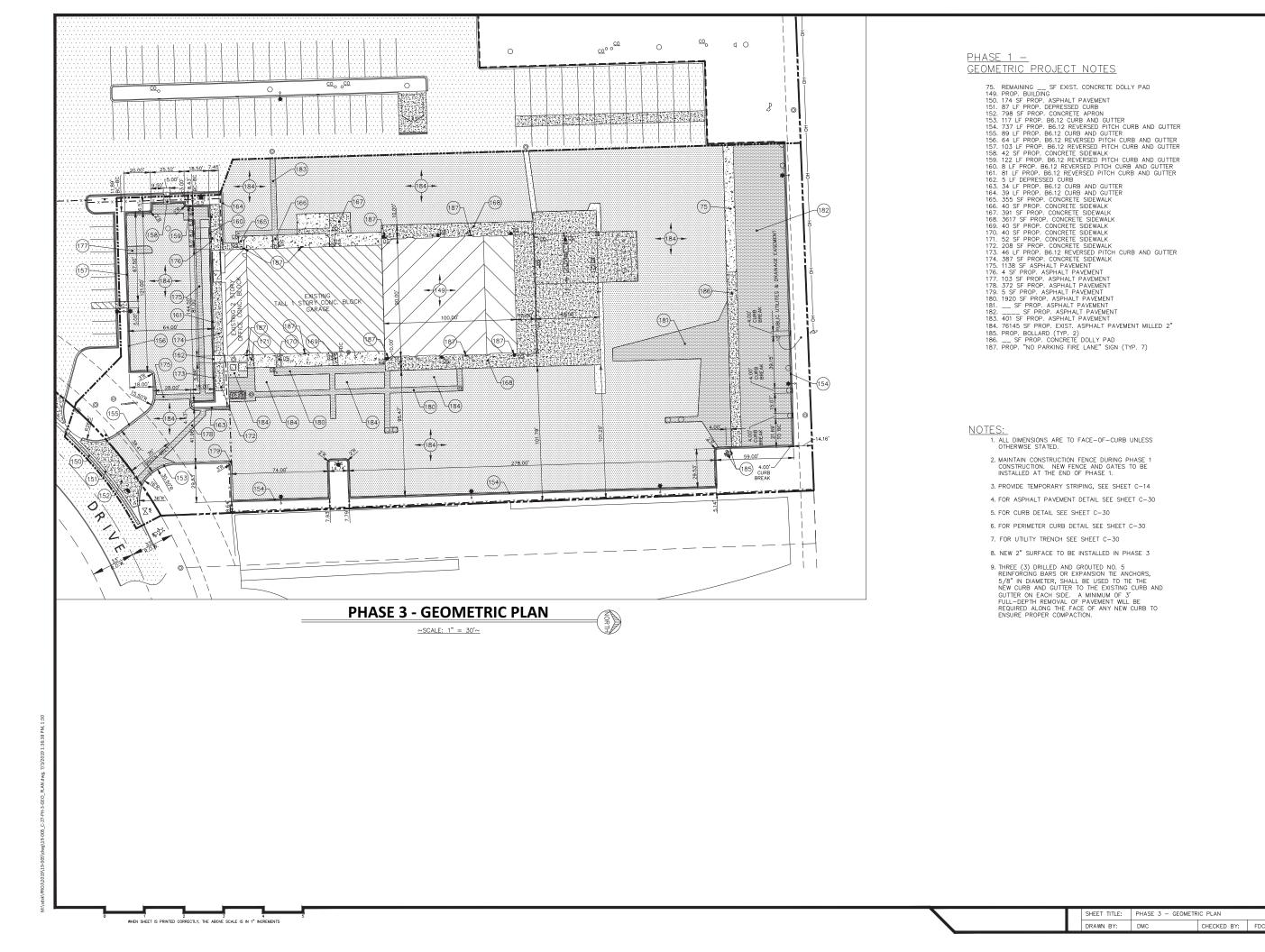
NEW FACILITY ENTERPRISE DR., ROMEOVILLE,

PROJECT NO: 15,120 SHEET NO:

C-26

G&C #19-00

SHEET TITLE: PHASE 3 - DEMOLITION PLAN CHECKED BY: FDC



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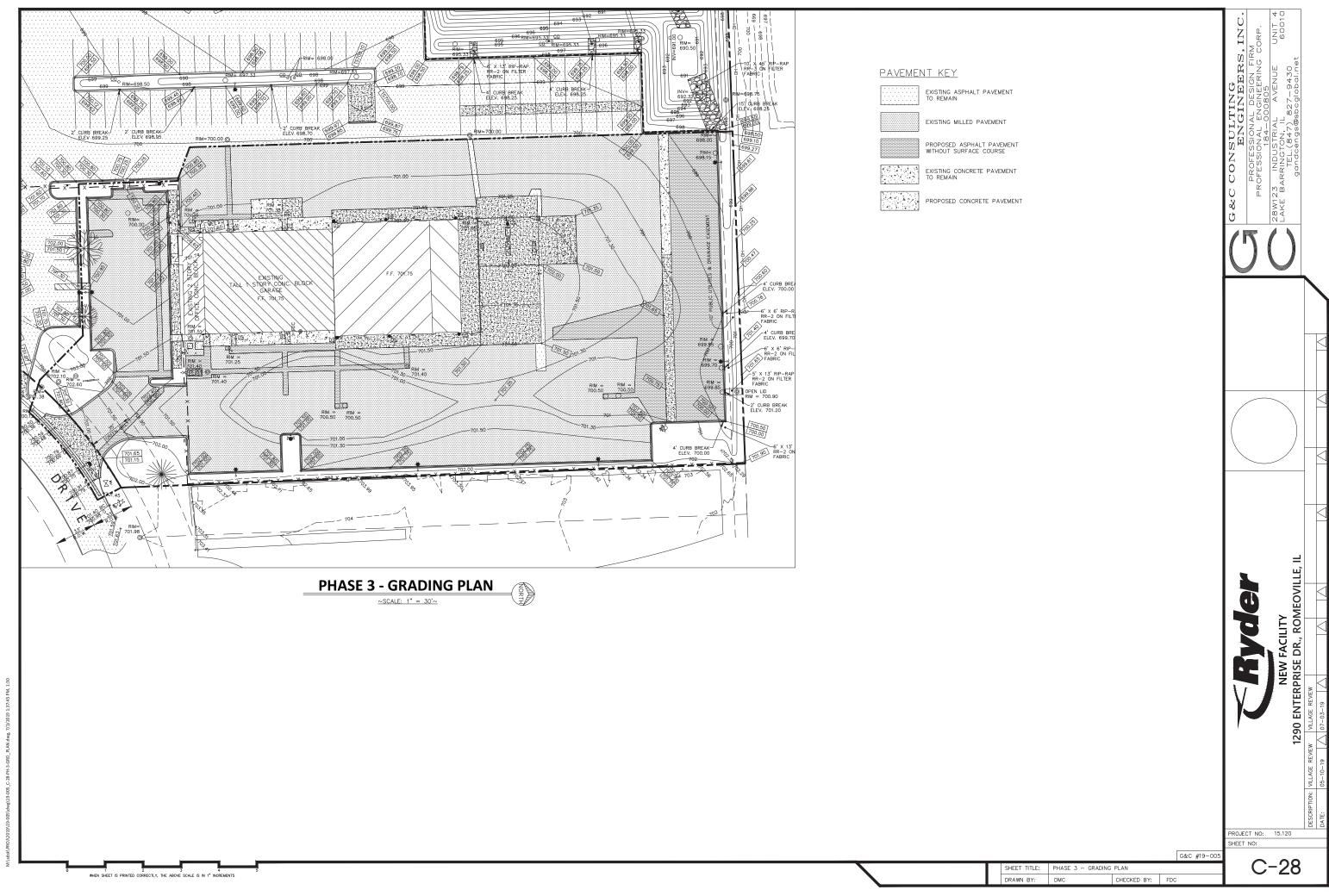
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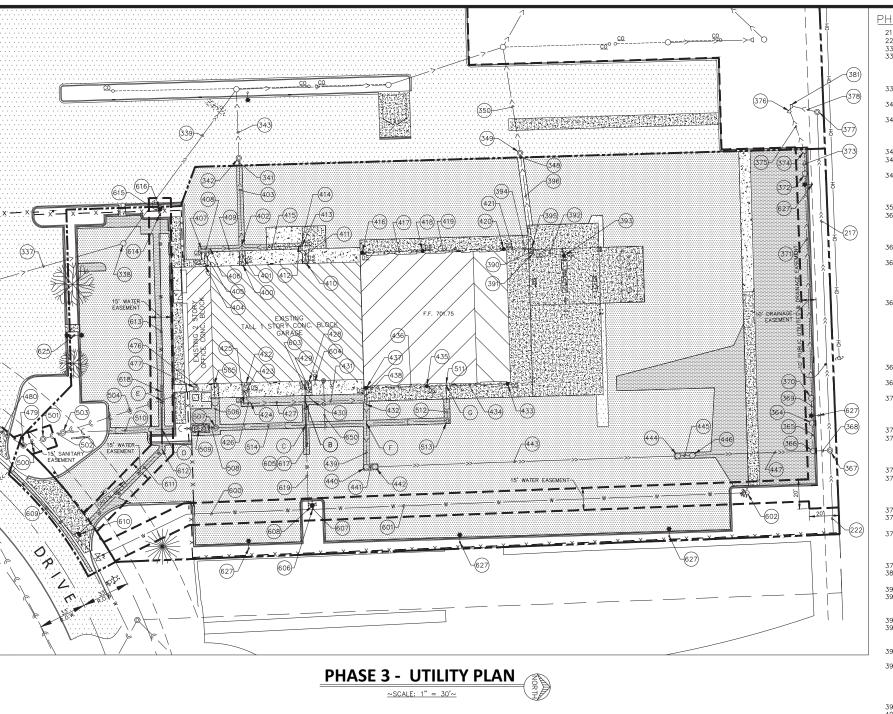
G&C #19-00

C-27

PROJECT NO:

15.120





PIPE CROSSING SCHEDULE

MARK	PIPE TYPE AND SIZE	ELEVATION	DIFFERENCE	
R	8" DI STORM SEWER (#427)	B/P 698.29	4.20'	
B - C - D - F -	6" DI WATER LINE (#605)	T/P 694.09	4.20	
С	6" PVC SANITARY SEWER (#514)	B/P 696.09	2.0'	
	6" DI WATER LINE (#605)	T/P 694.09	2.0	
D	6" PVC SANITARY SEWER (#510)	B/P 694.74	1.5'	
	8" DI WATER LINE (#613)	T/P 693.19	1.5	
F	6" PVC SANITARY SEWER (#504)	B/P 696.13	2.94'	
	8" DI WATER LINE (#613)	T/P 693.19	2.34	
E	12" DI STORM SEWER (#439)	B/P 697.70	0.69	
'	6" PVC SANITARY SEWER (#514)	T/P 697.01	0.09	
G	6" DI STORM SEWER (#434)	B/P 698.93	1.09'	
"	6" PVC SANITARY SEWER (#512)	T/P 697.84	1.03	

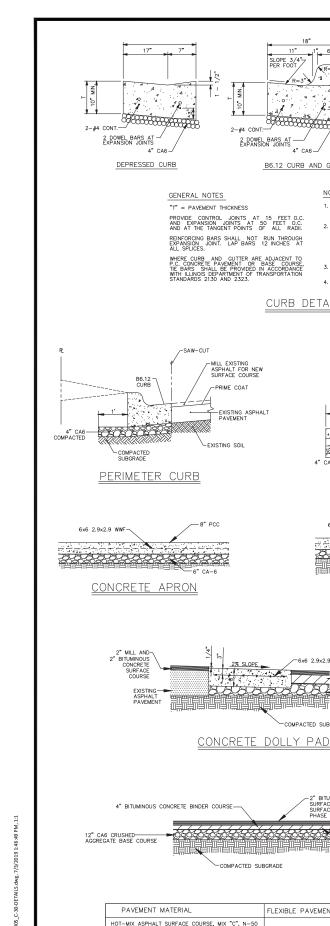
PHAS	SE 3 - UTILITY PROJECT	NOTE	S:
217.	231 F FYIST 24" PCP @ 0.539	420.	PROP. DOWNSPOUT, CONNECT TO PROP.
222. 337.	EXIST. 24" RCP @ 0.50% 102 LF PROP. 12" RCP @ 1.00%		PIPE #419 AND #421 INV (#421 8" N) = 697.79
338.	PIM - 700 00 (FYIST)	421.	INV (#419 8" S) = 697.79 14 LF PROP. 8" DIP ⊚ 1.00%
	INV (12" NW) = 695.84 (EXIST.)	422.	EXIST. DOWNSPOUT, CONNECT TO PROP. PIPE #423
339.	INV (12" NW) = 695.84 (EXIST.) INV (12" SE) = 696.28 (PROP.) REMAINING 130 LF OF MODIFIED EXIST. 12"	407	INV (8" E @ BLDG.) = 698.78
341.	PHASE 1 - 4 LF PROP. 8" DIP @ 2.00%.	423. 424.	14 LF PROP. 8" DIP @ 1.00% PROP. INV. (@ PIPE #426 & #427)
342.	CAP TO BE REMOVED PHASE 1 - PROP. 48" STORM MANHOLE	425.	= 698.64 PROP. CLEAN-OUT
012.	RIM = 700.00 INV (8" E) = 697.02		RIM = 701.25 INV (8" N) = 698.70
	INV (8" W) = 697.02	426.	5 LF PROP. 8" DIP @ 1.00%
343. 348.	PHASE 1 - 47 LF PROP. 8" DIP @ 3.00% PHASE 1 - 4 LF PROP. 8" DIP @ 2.00%,	427. 428.	43 LF PROP. 8" DIP @ 1.00% EXIST. DOWNSPOUT, CONNECT TO
349.	CAP TO BE REMOVED PROP. 48" STORM MANHOLE		PROP. PIPE #429 INV (8" E @ BLDG.) = 698.36
010.	RIM = 700.00	429. 430.	14 LF PROP. 8" DIP @ 1.00% PROP. INV (@ PIPE #427 & # 431)
	INV (8" W) = 693.00	431.	= 698.22
350. 364.	73 LF PROP. 8" DIP @ 2.00% PHASE 1 - PROP. 48" CATCH BASIN	432.	37 LF PROP. 8" DIP @ 1.00% PROP. INV (@ PIPE #439) = 697.85
	RIM = 699.70 INV (18" E) = 693.85	433.	PROP. DOWNSPOUT, CONNECT TO PROP. PIPE #438 &: #439
365.	INV (18" W) = 693.85 PHASE 1 - 19 LF PROP. 18" RCP	434.	INV (8" S) = 698.93 55 LF PROP. 8" DIP @ 1.00%
	@ 1.00%	435.	PROP. DOWNSPOUT, CONNECT TO PROP. PIPE #434 AND #436
366.	PHASE 1 - PROP. 60" CATCH BASIN RIM = 698.85		INV (#434 8" N) = 698.38 INV (#436 8" S) = 698.38
	INV (18" N) = 695.58 INV (18" S) = 695.58	436.	41 LF PROP. 8" DIP @ 1.00%
367.	INV (18" W) = 693.95 PHASE 1 - MODIFIED EXIST. 60 " STORM	437.	PROP. DOWNSPOUT, CONNECT TO PROP. PIPE #436 AND #438
507.	MANHOLE #254		INV (#436 8" N) = 697.96 INV (#438 12" E) = 697.96
	RIM = 701.22 (EXIST.) RIM = 700.90 (PROP.	438.	11 LF PROP. 12" DIP STORM SEWER © 1.00%
	OPEN LID) INV (18" S) = 695.52 (EXIST.)	439.	43 LF PROP. 12" DIP STORM SEWER
	INV $(24" E) = 695.06 (EXIST.)$	440.	© 1.40% PORP. 24" CATCH BASIN
368.	PHASE 1 - REMAINING 12 LF EXIST. 18"		RIM = 700.50 INV (15" N) = 697.36
369.	RCP #253 @ 0.54% PHASE 1 - 17 LF PROP. 18" RCP	441.	INV (12" W) = 697.36 6 LF PROP. 15" RCP @ 0.60%
370.	© 1.00% PHASE 1 - PROP. 48" CATCH BASIN	442.	PROP. 24" CATCH BASIN
	RIM = 699.85 INV (18" E) = 693.68		RIM = 700.50 INV $(15" N)$ = 697.32
	INV (18" W) = 693.68	443.	INV (15" S) = 697.32 REMAINING 207 LF EXIST. 15" RCP (#251
371. 372.	153 LF PROP. 18" RCP @ 0.80% PROP. 48" CATCH BASIN	444.	© 0.60% MODIFIED EXIST. 48" CATCH BASIN (#252
	RIM = 698.15 INV (18" E) = 692.75		RIM = 700.08 (EXIST.)
373.	INV (24' W) = 692.50 16 LF PROP. 24" RCP @ 0.40%		RIM = 700.50 (PROP.) INV (18" N) = 696.08 (EXIST.) INV (15" S) = 696.08 (EXIST.)
374.	PROP. 60" CATCH BASIN	445.	INV (15" S) = 696.08 (EXIST.) 10 LF PROP. 18" RCP @ 0.54%
	RIM = 698.00 INV (24" E) = 692.44	446.	
375.	INV (24" SW) = 692.44 28 LF PROP. 24" RCP @ 0.40%		INV (18" N) = 696.03
376.	PROP. FLARED END SECTION INV (24" NE) = 692.32	447.	INV (18" S) = 696.03 REMAINING 82 LF EXIST. 18" RCP (#253)
377.	PROP. 48" OPEN LID STORM MANHOLE	476.	© 0.54% 3 LF EXIST. 6" SANITARY SEWER
	INV (24" SW) = 692.44	477.	EXIST. SANITARY MANHOLE RIM = 701.51
378.	INV (24" E) = 693.84 20 LF PROP. 24" RCP @ 0.60%		INV (6" W) = 696.96 INV (6" SE) = 696.96
381.	PROP. FLARED END SECTION INV (24" NE) = 692.32	479.	EXIST. SANITARY MANHOLE RIM = 701.38
390. 391.	PHASE 2 - 5 LF PROP. 8" DIP @ 2.00% PHASE 2 - PROP. CLEAN-OUT		INV (6" NW) = 693.17
551.	RIM = 701.55	480.	INV (6" SW) = 693.17 90 LF EXIST. 6" PVC @ 3.76%
392.	INV (8" E) $= 697.69$ PHASE 2 $-$ 23 LF PROP. 8" DIP @ 1.00% PHASE 2 $-$ PROP. DOWNSPOUT, CONNECT	500.	REMAINING 14 LF OF EXIST. 6" PVC SANITARY SEWER (#478) @ 3.05%
393.	TO PROP. PIPE #392	501.	SANITARY SEWER (#478) @ 3.05% PROP. 60" SANITARY INSPECTION MANHOLE
394.	INV (8" SW) = 697.82 PHASE 2 − 6 LF PROP. 8" DIP @ 1.00%		RIM = 702.10
395.	CAP TO BE REMOVED PHASE 2 - PROP. INVERTS		INV (6" NW) = 693.66 INV (6" SE) = 693.66
000.	INV (8" NW) = 697.59	502.	REMAINING 14 LF OF EXIST. 6" PVC SANITARY SEWER (#478) @ 3.05%
	INV (8" S) = 697.59 INV (8" E) = 697.59	503.	PROP. 48" SANITARY MANHOLE RIM = 702.60
396.	INV (8" W) = 697.59 PHASE 2 - 60 LF PROP. 8" DIP @ 2.00%		INV (6" N) = 694.09
400.	EXIST. DOWNSPOUT, CONNECT TO PROP. PIPE #401		INV (6" NW) = 694.09 INV (6" SE) = 694.09
401	INV (8" W.) = 698.48 13 LF PROP. 8" DIP © 2.00%	504.	REMAINING 95 LF OF EXIST. 6" PVC SANITARY SEWER (#478) @ 3.05%
401. 402.	PROP. $INV = 698.22$	505.	INV (6" E @ BLDG)= 696.79 30 LF PROP. 6" PVC SDR26 @ 2.00%
403. 404.	56 LF PROP. 8" DIP @ 2.00% EXIST. DOWNSPOUT, CONNECT TO PROP.	506. 507.	PROP. 48" SANITARY MANHOLE
	PIPE #405 INV (6" W) = 698.65		RIM = 701.40 INV (6" N) = 695.44
405. 406.	13 LF PROP. 6" DIP @ 1.00% PROP. INV = 698.62		INV (6" S) = 695.49 INV (6" W) = 696.49
407.	PROP. CLEAN-OUT RIM = 701.35	508.	5 LF PROP. 6" PVC SDR26 @ 1.00%
	INV (6" N) = 698.68	509.	PROP. 1000 GALLON OIL/WATER SEPARATOR
408. 409.	6 LF PROP. 6" DIP @ 1.00% 22 LF PROP. 6" DIP @ 1.27%		RIM = 701.45 INV (6" N) = 695.44
410.	EXIST. DOWNSPOUT, CONNECT TO PROP. PIPE #411	510.	INV (6" S) = 695.11 85 LF PROP. 6" PVC SDR26 @ 1.00%
411	INV (6" W) = 698.73 13 LF PROP. 6" DIP ◎ 1.00%	511.	PROP. INV (6" E @ BLDG.) = 697.34
411. 412.	PROP. INV (6") = 698.62	512. 513.	25 LF PROP. 6" PVC SDR26 @ 1.00% PROP. 48" SANITARY MANHOLE
413.	PROP. CLEAN-OUT RIM = 701.30		RIM = 701.40 INV (6" S) = 697.07
414.	INV $(6" S) = 698.63$ 2 LF PROP. 6" DIP @ 0.95%	E4.4	INV (6" W) = 697.07 158 LF PROP. 6" PVC SDR26 @ 1.00%
415. 416.	39 LF PROP. 6" DIP @ 1.00% PROP. DOWNSPOUT, CONNECT TO PROP.	514. 600.	158 LF PROP. 6" PVC SDR26 @ 1.00% EXIST. 8" DIWM EXIST. 8" DIWM
T10.	PIPE #417	601. 602.	MODIFIED EXIST. FIRE HYDRANT
417.	INV (8" N) = 698.75 41 LF PROP. 8" DIP @ 1.00%		RAISE FLANGE TO ELEV. 702.15 PROVIDE 2 BOLLARDS
418.	PROP. DOWNSPOUT, CONNECT TO PROP. PIPE #417 AND #419	603.	CONNECT PROP. 6" DIWM TO EXIST. BUILDING
	INV (#419 8" N) = 698.34 INV (#418 8" S) = 698.34	604. 605.	EXIST. FIRE DEPARTMENT CONNECTION 40 LF PROP. 6" DIWM (SEE SHEET C-13
419.	55 LF PROP. 8" DIP @ 1.00%	605.	PROFILE W-W)

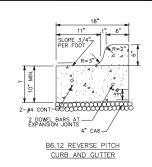
JT, CONNECT #421 N) = 697.1	T TO PROP.	606. 607. 608.	PRUP
N) = 697.7 S) = 697.7 DIP @ 1.00% JT, CONNECT	79 ; r to		BOLL DETA EXIST
BLDG.) = 69	98.78	609. 610.	PROF 12" > WITH
PE #426 &	#427)	611	80 LI
T = 701.25		611. 612.	PROF
= 698.70		613. 614.	160 I PROF
IP @ 1.00%	,		REDU
JT, CONNECT	то	615. 616.	REDU 4 LF PROF
429 BLDG.) = 6:	98.36		BOLL DETA
DIP @ 1.00%		617.	40 LI
PE #427 &	# 431)	618.	DIWM 40 Li
DIP @ 1.00% PF #439) =	697.85		DIWM
DIP @ 1.00% PE #439) = JT, CONNECT 4438 & #439	TO	619.	REMA
		625.	MODII LIGHT
DIP @ 1.00% JT, CONNECT ND #436 N) = 698.3	TO PROP.		ELEC
ND #436	70	627.	PROP
N) = 698.3 S) = 698.3	38		DURIN
S) = 698. DIP @ 1.00% JT, CONNECT	TO PROP.		
44.38		650.	EXIST MECH
" N) = 697 " E) = 697	.96 .96		WILO
DIP STORM	SEWER		
DIP STORM	SEWER		
H BASIN			
= 700.50 = 697.36			
= 697.36 = 697.36			
= 697.36 RCP @ 0.60	%		
H BASIN = 700.50			
= 697.32 = 697.32			
F EXIST. 15	" RCP (#251)		
48" CATCH	BASIN (#252)		
= 700.08 = 700.50	(EXIST.)		
= 700.50	(EXIST.)		
= 696.08 = 696.08 RCP @ 0.5	(EXIST.)		
H BASIN	†/o		
= 700.50 = 696.03			
= 696.03	DOD (#057)		
	RCP (#253)		
ANITARY SE MANHOLE	WER		
= 701.51			
= 696.96 = 696.96			
MANHOLE = 701.38			
= 693.17			
= 693.17 PVC @ 3.76	%		
OF EXIST.	6" PVC		
(#478) @ 3 ARY INSPEC	TION		
= 702.10			
= 693.66			
= 693.66 OF EXIST. ((#478) @ 3	6" PVC		
(#478) © 3	3.05%		
ARY MANHO = 702.60	LL		
= 694.09 = 694.09			
= 694.09	o" p		
= 694.09 OF EXIST. (#478) @ 3	6 PVC 3.05%		
G)= 696.79 PVC SDR26	@ 0.00m		
ARY MANHO	⊌ ∠.UU% LE		
= 701.40 = 695.44			
= 695.49			
= 696.49 VC SDR26 @	1.00%		
VC SDR26 @ ON OIL/WAT	TER		
= 701.45			
= 695.44 = 695.11			
PVC SDR26 BLDG.) =	@ 1.00%		
<pre> BLDG.) = PVC SDR26 </pre>	697.34 0 1.00%		
ARY MANHO	LE		
= 701.40 = 697.07			
= 697.07 PVC SDR26	: @ 1 nn~		
rvc sbk26	v ⊌v 1.UU⁄6		
FIRE HYDRAN	NT		
ELEV. 702.	.15		
6" DIWM TO	EXIST.		
RTMENT CO	NNECTION		
DIWM (SEE	SHEET C-13		
ET TITLE:	PHASE 3 - U	TILITY F	PLAN

3 – UTILI	TY PLAN	G&C #19-0	SHEET NO:	 9	_
% % % % % N \\ \rac{N}{2} \rac{N}{2} \\ \rac			PROJECT NO.	1290 ENTER DESCRIPTION: VILLAGE REVIEW	DATE: 05-10-19 \ 07-03-19 \
#251) #252)))))					
	BOLLARDS (SEI DETAIL) 9. EXIST. 12" DIW 0. PROP. 60" VAI 12" X 8" PRES WITH 8" VALVE WITH 8" VALVE 12" X 8" PRES WITH 8" VALVE 12" X 8" PRES WITH 8" VALVE 14" PROP. 135" BE 160 LF PROP. 135" BE 160 LF PROP. 8" X 6" REDUCER 14 LF PROP. 6" 15 PROP. 8" X 6" REDUCER 16 PROP. 18" X 6" REDUCER 17 AU LF PROP. 6" 18 OU LF PROP. 10" 19 DIWM 10 LF PROP. 10" 10 DIWM 10 LF PROP. 10" 11 DIWM 12 LIGHT TO A DC 13 ELECTRICAL PL 17 PROP. STREET 18 DURING PHASE 18 ELECTRICAL PL	" DIWM "DORANT WITH 3 E SHEET C-32 FOR MLYE VAULT WITH SSURE CONNECTION E. 87 DIWM ND (TYP) 8" DIWM " CONCENTRIC " DIWM "CONCENTRIC " DIWM "CONCENTRIC " DIWM "CASING FOR 6" CASING FOR 6" LF EXIST. 6" DIWM LF EXIST. 6" DIW LF EX	CONSULTING ENGINEERS	IEL.(847) 827-9430 gandcengs@sbcglobal.net	

1' 2 3' 4
WHEN SHEET IS PRINTED CORRECTLY, THE ABOVE SCALE IS IN 1" INCREMENTS

SHEET TITLE: PHASE DRAWN BY: DMC





NOTES:

- REINFORCEMENT: PROVIDE NO. 5 STEEL BARS, 10' LONG, CENTERED OVER ALL TRENCH CROSSINGS.
- 3. CONTRACTION JOINT: PROVIDE 2" DEEP CONTRACTION JOINTS AT 15' INTERVALS. 4. PROVIDE CONTINUOUS BARS.

CONCRETE PAVEMENT

CURB DETAILS

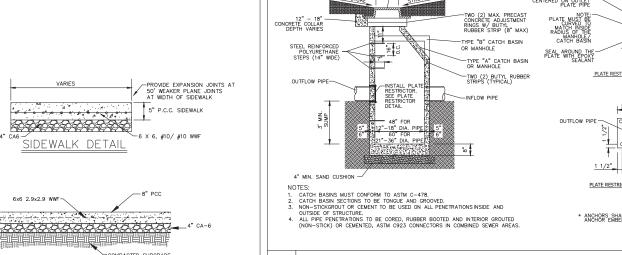
FLEXIBLE PAVEMENT HEAVY DUTY (INCHES)

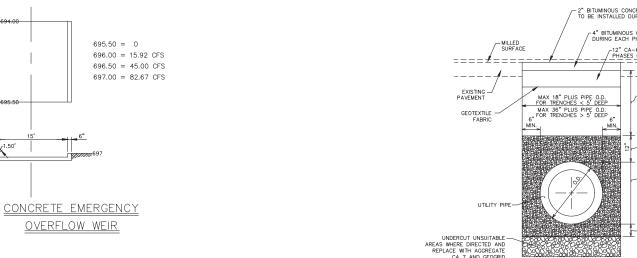
B6.12 CURB AND GUTTER

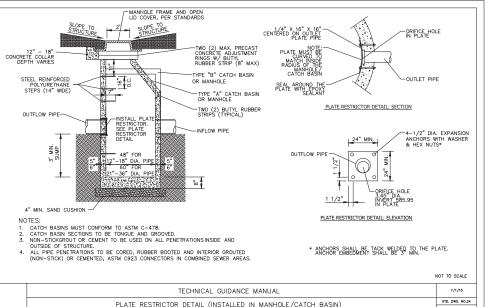
2-#4 CONT.

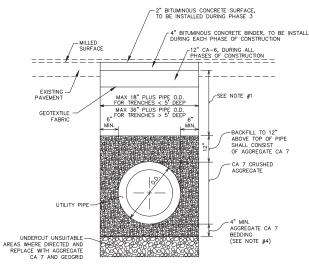
2 DOWEL BARS A EXPANSION JOINT

MILL EXISTING ASPHALT FOR NEW SURFACE COURSE









NOTES:

1. TRENCH BACKFILL UNDER A PAVED SURFACE OR WITHIN THE ZONE OF INFLUENCE (5' FROM EDGE OF PAVEMENT OR 5' FROM THE BACK OF CURB ON CURBED STREETS) SHALL CONSIST OF:

a) UNDER NEW PAVEMENT:

12" THICK PAVEMENT SUBGRADE (AGGREGATE CA 6 CAP) OVER AGOREGATE CA 7 TRENCH BACKFILL OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MIX 1 (ONLY IF REQUIRED BY THE ENGINEER)

b) UNDER EXISTING PAVEMENT:

SAME AS 'G' ABOVED

c) UNDER PRIVATELY OWNED PAVEMENT:

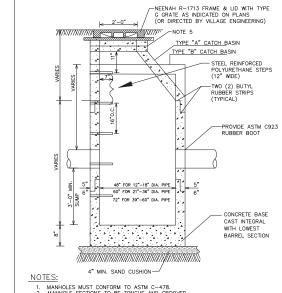
SAME AS 'G' ABOVED

2. ALL MATERIALS SHALL BE PROPERLY COMPACTED PER SPECIFICATIONS (INUNDATION OR WATER JETTING IS NOT ALLOWED).

3. ALL TRENCH EXCAVATIONS SHALL MEET OSHA REGUIREMENTS.

BEDDING MATERIAL FOR PVC PIPE INSTALLATION SHALL COMPLY WITH ASTM D-2321.

UTILITY TRENCH IN PAVEMENT AREAS



NOT TO SCALE

CATCH BASIN

DETAIL

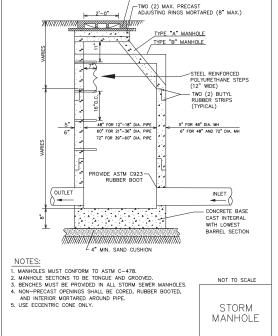
- NOTES:

 1. MANHOLES MUST CONFORM TO ASTM C-478.

 2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.

 3. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.

 4. USE ECCENTRIC COME ONLY RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT). NO 1" OR "ITHERE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR "CONCRETE RINGS ARE ALLOWED. UNIDER PANED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJW INFRA-RISER RUBBER COMPOSITE.



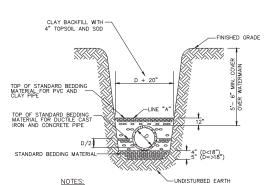
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C-30

PROJECT NO: 15.120

SHEET NO:

FACILITY DR., ROMEOVILLE, I



. STANDARD BEDDING MATERIAL FOR NON-PLASTIC PIPE SHALL BE WELL COMPACTED 1/4 INCH TO 1 INCH CRUSHED STONE. (CA-11 OR CA-13)

3. SELECT, WELL COMPACTED EXCAVATED MATERIAL SHALL BE PLACED TO LINE "A" IF STANDARD BEDDING MATERIAL IS NOT REQUIRED TO LINE "A".

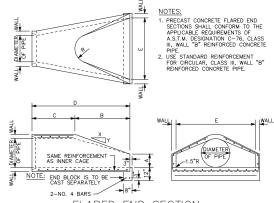
VOIDS LEFT BY SHEETING MATERIAL SHALL BE FILLED WITH STANDARD BEDDING MATERIAL AS THE SHEETING IS REMOVED.

UTILITY TRENCH IN NON PAVEMENT AREAS

G&C #19-0 SHEET TITLE: DETAILS DRAWN BY: DMC CHECKED BY: FDC

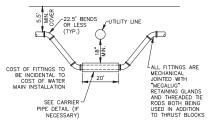
ASPH<u>ALT PAVEMENT</u>

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 GRANULAR SUBBASE (IDOT GRADATION CA-6)



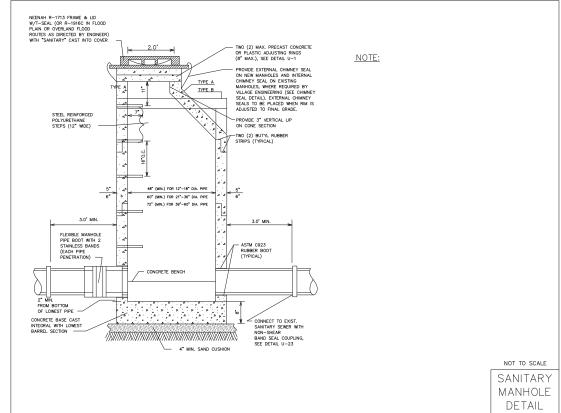
FLARED END SECTION

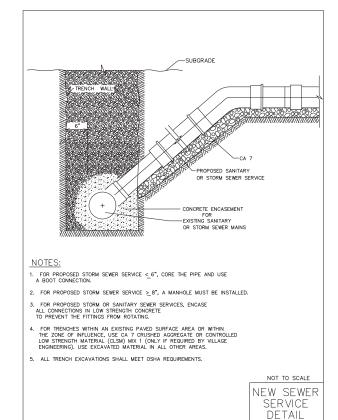
PIPE DIA.	WALL	A	В	С	D	E	R	SLOPE
12"	2"	4"	2'-0"	4'-0-7/8"	6'-0-7/8"	2'-0"	9"	3:1
15"	2-1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	3:1
18"	2-1/2"	9"	2'-3"	3'-10"	6"-1"	3'-0"	12"	3:1
21"	2-3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	13"	3:1
24"	3"	9-1/2"	3'-7-1/2"	2'-6"	6'-1-1/2"	4'-0"	14"	3:1

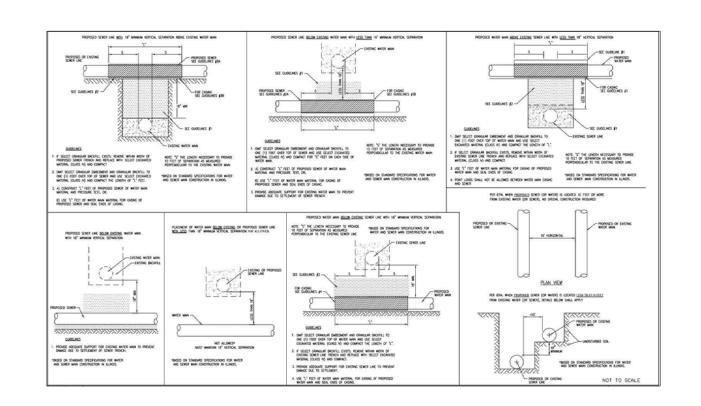


TO BE USED WHERE EXISTING UTILITY LINE CANNOT BE MOVED OR EXISTING WATER MAIN MUST BE RELOCATED TO ALLOW NEW UTILITY LINE TO BE CONSTRUCTED.

WATER MAIN OFF-SET DETAIL







G&C #19-005

C-31

PROJECT NO: 15.120

1290

CONSULTING
ENGINEERS, INC
PROFESSIONAL DESIGN FIRM
PROFESSIONAL DESIGN FIRM
PROFESSIONAL DESIGN FIRM
PROFESSIONAL DESIGN FIRM

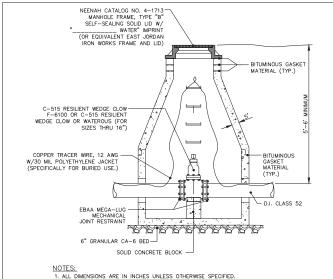
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G&C #19:

SHEET TITLE: DETAILS

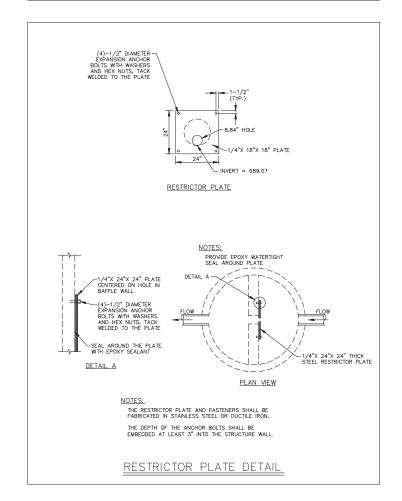
DRAWN BY: DMC CHECKED BY: FDC

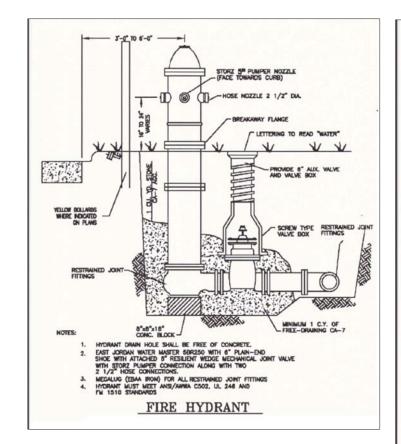


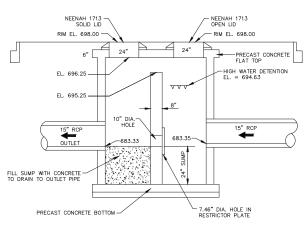
- ADJUSTMENT: THREE ADJUSTMENT RINGS TOTALING 8" IN HEIGHT MAY BE USED. NO MORE THAN TWO (2) OF THOSE RINGS MAY BE PRECAST CONCRETE. THE TOP RING IN PAVED AREAS WITH CROWN ADJUSTMENTS SHALL BE RUBBER.
- 3. STEPS AT 16" O.C. COPOLYMER POLYPROPYLENE PLASTIC WITH A CONTINUOUS 1/2-INCH STEEL REINFORCEMENT.
- 4. WATER MAIN SHALL BE CLASS 52 DUCTILE IRON PIPE WITH CEMENT COATING C-104.
- 5. FITTINGS SHALL BE ANSI-AWWA C153/A21.53 SSB-COMPACT.
- 6. ECCENTRIC CONES SHALL NOT BE USED UNLESS UNDERGROUND CONDITIONS REQUIRE THEM AND THEY ARE ACCEPTED BY THE VILLAGE ENGINEER.
- 7. TRACER WIRE SHALL BE CONNECTED TO THE SIDE OF THE VAULT NO MORE THAN $16\ensuremath{^{\circ}}$ BELOW GRADE.

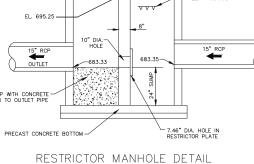
DIAMETER OF WATER MAIN	VAULT DIAMETER
8 and under	48
10 and over	60

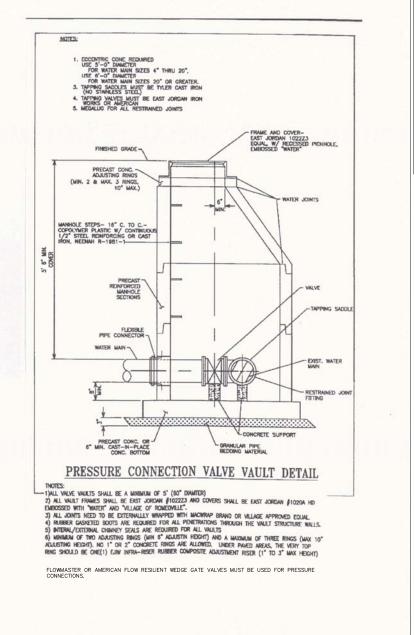
VALVE VAULT TYPE A DETAIL











FACILITY DR., ROMEOVILLE, I NEW P 90

CONSULTINE

G&C

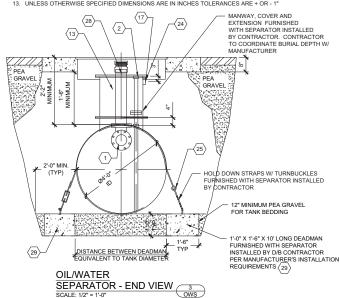
G&C #19-00

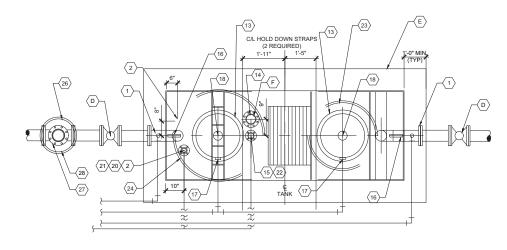
C-32

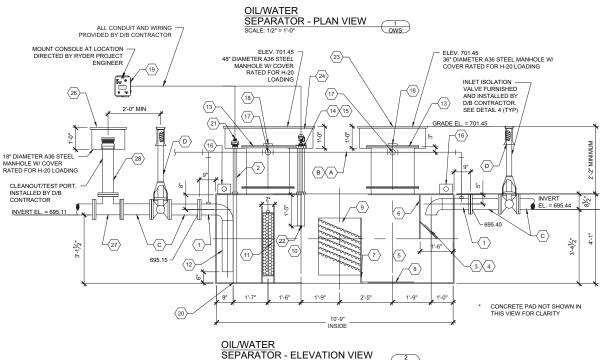
PROJECT NO: 15.120 SHEET NO:

SHEET TITLE: DETAILS DRAWN BY: DMC CHECKED BY: FDC

- OWNER WILL FURNISH A 1000 GALLON, DOUBLE WALL STEEL OIL/WATER SEPARATOR (OWS)
 WITH A 100 GPM FLOW RATE, DESIGN/BUILDER SHALL OFF LOAD AND CAREFULLY STORE AS
 NOT TO DAMAGE THE HIGHGUARD COATING PRIOR TO INSTALLATION. DESIGN/BUILDER SHALL
 INSPECT AND REPAIR ANY DAMAGED AREAS PER INSTRUCTIONS FROM THE TANK
 MANUFACTURER.
- D/B CONTRACTOR SHALL OBTAIN ALL PERMITS AND APPROVALS REQUIRED FOR INSTALLATION OF THE OWS.
- ALL DESIGN WORK RELATED TO THE PROJECT MUST BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES.
- 4. OWS SHALL BE INSTALLED PER HIGHLAND TANK LATEST PUBLISHED OWS OPERATIONS AND INSTALLATION MANUAL AND THE APPROVED RYDER OWS DRAWING
- 5. OWS TO BE SET AT A MINIMUM BURIAL DEPTH OF 2'-2" BELOW GRADE (8" CONCRETE PAD AND 1'-6" TO TOP OF TANK). VERIFY AND COORDINATE BURIAL DEPTH WITH APPROVED RYDER OWS
- 6. OWS IS TO BE SET AND BACK FILLED WITH THE PROPER SIZE PEA GRAVEL AS NOT TO DAMAGE THE HIGHGUARD COATING. ANCHOR WITH CONCRETE DEADMAN ON EACH SIDE OF TANK.
- 7. D/B CONTRACTOR MUST PROTECT EXCAVATION FROM CAVE-IN BY PROPER EXCAVATION SLOPE OR SHORING AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- 8. GRAVITY WATER PIPE SHALL BE SCHEDULE 40 PVC INSTALLED PER ASTM D-1785 AND TESTED PER MANUFACTURER'S INSTRUCTIONS AND LOCAL PLUMBING CODES.
- VENT PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC, VENT PIPING ABOVE GRADE SHALL BE SCHEDULE 40 GALVANIZED STEEL AND SHALL EXTEND THE GREATER OF12-0" ABOVE FINISHED GRADE OR 3'-0" ABOVE BUILDING ROOF LINE.
- 10. D/B CONTRACTOR SHALL INSTALL ALL MANHOLE FRAMES AND COVERS PLATES AS NOTED IN THE DRAWING.
- 11. OWS INLET AND OUTLET PIPING SLOPE TO BE A MINIMUM OF 1% AND A MAXIMUM OF 2% TO MAINTAIN GRAVITY FLOW. OWS OUTLET PIPING SLOPE TO BE EQUAL TO OR GREATER THAN THE INLET PIPING.
- 12. ALL EQUIPMENT SPECIFIED AS SIMILAR OR APPROVED EQUAL.
- 13. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE + OR 1"







PROVIDED EQUIPMENT:

- 6"Ø 150# R.F.S.O. FLANGE W/ 2" FNPT FOR VENT 2" FITTING FOR LEAK DETECTION VELOCITY HEAD DIFFUSION BAFFLE WEAR PLATE
- SEDIMENT CHAMBER UNDERFLOW BAFFLE
- SLUDGE BAFFLE

- SUDUSE ONLY
 STRIKER PLATES
 STRIKER PLATES
 PARALLEL O'GRENGATED PLATE COALESCER. CORELLA PVC PLATES (32° X32° X4") (3° PLATE SPACING)
 OLIWAYER SEPARATOR CHAMBER
 STRIKER SEPARATOR CHAMBER
 STRIKER SEPARATOR CHAMBER
 STRIKER SEPARATOR CHAMBER
- ROD SHIPPED LOOSE (32" X 32" X 6")

 12. STEEL OUTLET DOWNCOMER

 13. 24"Ø MANWAY WITH NEO-CORK GASKETS. BOLT-ON EXTENSION SHIPPED
- LOOSE

 14. 4"0 FITTING FOR OIL PUMPOUT W/ INTERNAL PIPE INSTALLED & RISER PIPE SHIPPED LOOSE.

 15. 2" FITTING FOR LEVEL SENSOR W/ RISER PIPE SHIPPED LOOSE.

- 15. 2" FITTING FOR LEVEL SENSOR W. RISER PIPE SHIPPED LOOSE
 16. LIFTING LUG
 17. 2"0 FITTING FOR YENT TYP, BOTH MANWAYS
 18. 4"0 FITTING FOR GAUGE WITH PLUG TYP, BOTH MANWAYS.
 19. HTAP2 (2) CHANNEL ALARM PANEL (1PH-60HZ-120V) LOCATED INSIDE
 FACILITY
 19. 1-15" LIQUID ONLY LEAK SENSOR W. 15" OF CABLE
 21. HTSC-2A PVC CAP FOR LEAK SENSOR W. 15" OF CABLE
 22. HTSC-2A PVC CAP FOR LEAK SENSOR W. NEMA 4 CAP AND 15" CABLE SEE
 DETAIL 5
 23. GLM-36 GRADE LEVEL MANWAY
 24. GLM-48 GRADE LEVEL MANWAY
 25. GLM-49 GRADE LEVEL MANWAY
 27. 6" SCH. 40 PVC FLANGED THE FOR SAMPLE PORT
 28. G'SCH. 40 PVC FLANGED THE FOR SAMPLE PORT
 28. 6" SCH. 40 PVC FLANGED THE FOR SAMPLE PORT
 28. 6" SCH. 40 PVC FLANGED THE FOR SAMPLE PORT
 28. 6" SCH. 40 PVC RISER PIPE BOTTOM END FLANGED, TOP END MALE
 ADAPTER WITH THREADED CAP.
 29. CDA-15 CONCRETE DEADMAN FOR ANCHORING (2) REQ.

- 29. CDA-15 CONCRETE DEADMAN FOR ANCHORING (2) REQ.

D/B CONTRACTOR PROVIDED EQUIPMENT:

- A 2" Ø VENT PIPING SCHEDLILE 40 PVC LINDERGROUND
- 2" Ø VENT PIPING, SCHEDULE 40 GALVANIZED STEEL ABOVEGROUND 6" Ø INI FT/OLITI ET PIPING
- C. 6" 9 INLET/OUTLET PIPING

 6" 9 PVC BALL VALVE WITH VALVE BOX

 E. 4000 PSI CONCRETE TRAFFIC PAD, H-20 LOADING,8" THK. REINFORCED

 CONCRETE PAD W/#4@12 E.W. BOTTOM

 F. 4" 9 PVC PLUG FOR OIL PUMPOUT

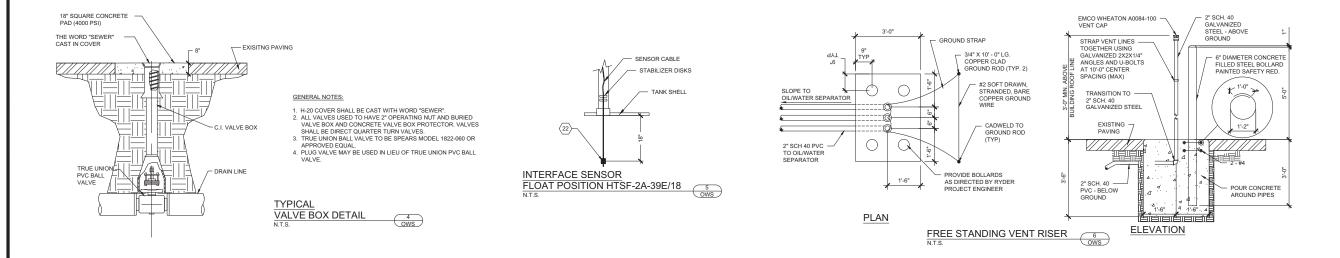
GENERAL SPECIFICATIONS

CAPACITY UL-HTC, HIGHGUARD, DOUBLE WALL MILD CARBON STEEL MATERIAL: FLOW RATE: 100 GPM INNER 7 GA., OUTER 10 GA.

GAUGE - SHELL: GAUGE - HEADS: SURFACE PREP INNER: SURFACE PREP OUTTER INNER 7 GA., OUTER 10 GA.
SSPC #10 BLAST ALL INTERIOR SURFACES
SSPC #6 BLAST ALL EXTERIOR SURFACES
POLYURETHANE 75 MILS THICK
POLYURETHANE 15 MILS THICK
LAP FIT AND WELD ALL EXTERIOR SEAMS
AMERICAN FOR THE STANDON OF THE STAND WELD ALL EXTERIOR SEAMS
AMERICAN FOR THE STANDON OF THE STAND OF THE STAND OF THE STANDON OF T COATING - EXTERIOR: COATING - INTERIOR:

NOTES:

- POLYURETHANE HIGHGUARD TANK IS NOT APPROVED FOR THE STORAGE OF HEATED PRODUCTS.
 TANK HAS A 30 YEAR LIMITED WARRANTY.
 15000 VOLT SPARK TEST PROVIDED AT FACTORY.



G&C PROJ. #19-0

C-33

PROJECT NO: 15.120 SHEET NO .:

FACILITY DR., ROMEOVILLE,

NEW F ENTERPRISE D

CONSULTING
ENGINEERS
PROFESSIONAL ENGINEERING
184-000805
3 INDUSTRIAL AVENUE

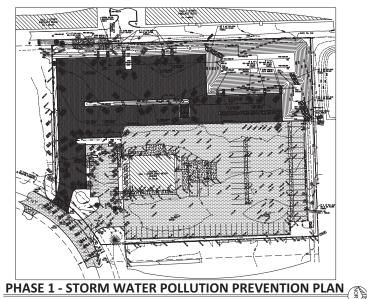
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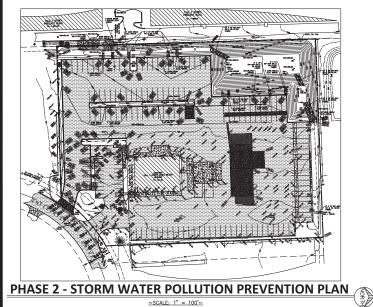
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SHEET TITLE: OIL/WATER SEPARATOR DETAIL CHECKED BY:







~SCALE: 1" = 100'~

OWNER REPRESENTATIVE

OWNER REPRESENTATIVE THAT HAS LEGAL RESPONSIBILITY FOR MAINTENANCE OF EROSION CONTROL STRUCTURES DURING AND AFTER DEVELOPMENT

ANDRES A. CARVALLO RYDER SYSTEMS, INC REGIONAL CONSTRUCTION PROJECT MANAGER 11690 NW 105 STREET MAM, FL 33178 305-500-5645

EROSION CONTROL NOTES

- THE EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND
- 2. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION AND UNTIL ALL LAND DISTURBING AND CONSTRUCTION ACTIVITIES HAVE CEASED ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 3. THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNGEF, OR OTHER FORCES. PROPER DISPOSAL AND WANAGEMENT OF ALL WASTES AND UNISED CONSTRUCTION MATERIAL, APPROPRIATE TO THE NATURE OF THE WASTES AND MATERIALS IS REQUIRED COMPLIANCE IS REQUIRED WITH ALL APPLICABLE REGULATIONS REGARDING WASTE DISPOSAL.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AREAS FOR STORAGE OF DISPOSAL OF SOLID, SANITARY, AND TOXIC WASTES, AND VEHICLE OR EQUIPMENT FUELING.
- 5. EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS
- 6. THE CONTRACTOR SHALL STOCKPILE TOPSOIL FOR USE IN FINAL LANDSCAPING, THE LOCATION OF THE STOCKPILE AREA SHALL BE DETERMINED BY THE CONTRACTOR, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, AND ALL NECESSARY EROSION AND SEDIMENTATION PREVENTION MEASURES SHALL BE IMPLEMENTED.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED IMMEDIATELY AFTER THE UTILITY INSTALLATION.
- INLET PROTECTION SHALL BE INSTALLED AROUND ALL STORM DRAINAGE INLETS.

- 16. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN .25 INCHES OF RAIN PER 24 HOUR PERIOD.

SOIL PROTECTION CHART

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
PERMANENT SEEDING			A +			*	*		_			
DORMANT SEEDING	B		_								3	_
TEMPORARY SEEDING			C +-			*-	*-		_			
SODDING			E**									
MULCHING	f T											

C. SPRING OATS 100 LBS/ACRE D. WHEAT OR CEREAL RYE 150 LBS/ACRE

F. STRAW MULCH 2 TONS/ACRE

E. SOD

STORM WATER POLLUTION PREVENTION PLAN

- ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

ROMEOVILLE STORMWATER POLLUTION PREVENTION PLAN NOTES:

- THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LUTTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY.
- 2. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK.
- 3. A NOTICE OF INTENT (NO) MUST BE SUBMITTED TO THE NPDES PERMITTING AUTHORITY AND POSTMARKED AT LEAST 30 DAYS BEFORE COMMENCEMENT OF ANY WORK ON-SITE FOR ALL CONSTRUCTION SITES OWER ONE ACRE. INCLUDED IN THE NOI SHALL BE THE STORMWATER POLLUTION PREVENTION PLAN (SMPPP), WHICH INCLUDES THE APPROPRIATE BMP'S TO MINIMIZE THE DISCHARGE OF POLLUTIANTS FROM THE CONSTRUCTION SITE.

OWNER CERTIFICATION STATEMENT

CENTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERWISION IN ACCORDANCE WITH A SYSTEM DESIONED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY MOUIRY OF THE PERSON ON PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE AM ARMARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWN WOLATIONS.

DATED THIS 3rd DAY OFJULY 2019.

BY: ANDRES A. CARVALLO TITLE: PROJECT MANAGER COMPANY: RYDER SYSTEMS, INC.

ADDRESS: 11690 NW 105 STREET

MIAMI, FL 33178

TELEPHONE: 305-500-5645

CONTRACTOR CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (ILR 10) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION STE DESTRIED AS PART OF THIS CERTIFICATION.

DATED THIS 3rd DAY OFJULY 2019.

BY: DAVID DINGES TITLE: PROJECT MANAGER

COMPANY: STENSTROM CONSTRUCTION GROUP

ROCKFORD, IL 61104

STORMWATER POLLUTION PREVENTION PLAN NOTES

- THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE AVAILABLE ON—SITE AT ALL TIMES DURING THE SITE WORK CONSTRUCTION.
 THE OPIGINAL PLAN SHALL BE UPDATED AS REQUIRED TO MATCH MAJOR CONSTRUCTION MILESTONES.
 THE FOLLOWING CERTIFICATES SHALL BE AVAILABLE ON—SITE REFERENCED TO THE UPDATED STORMWATER POLLUTION PREVENTION PLAN:

- TONSTRUCTION MILESTONES.

 3. THE FOLLOWING CERTIFICATES SHALL BE AVAILABLE ON—SITE REFERENCED TO THE UPDATED STORMWATER POLLUTION PREVENTION PLAN:

 A. WATER SHED DEVELOPMENT PERMIT.

 B. SWEPP CONTRACTOR OR SUBCONTRACTOR CERTIFICATION

 C. SWEPP OPERATOR OR OWNER CERTIFICATION

 4. STORMWATER POLLUTION PREVENTION MEASURES SHOWN HEREN ARE THE MINIMUM REQUIRED. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ERECTING AND MAINTAINING AN EROSION AND SEDMENT CONTROL. SYSTEM TO MEET THE PROVIDIOUS OF THE PROVIDIOUS STANDARDS FOR FIRENDAM SOIL SECURITY OF THE PROVIDIOUS OF THE PROVIDIOUS OF THE PROTECTION AGENCY AND INFOES PERMIT FOR "CONSTRUCTION SITE ACTIVITIES".

 5. EROSION AND SEDMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED, PAVEMENT HAS BEEN PLACED, OR THE AREA THEY PROTECT HAS BEEN SODDED. PAVEMENT HAS BEEN PLACED ON THE PAVEMENT HAS BEEN PLACED. OR THE PAVEMENT HAS BEEN SHALL BEEN PLACED. OR THE PAVEMENT HAS BEEN SHALL BEEN PLACED. OR THE PAVEMENT HAS BEEN SHALL BEEN PLACED. THE RESPONSIBLE CONTRACTOR THEN THE PAVEMENT HAS BEEN SHALL BE PROVIDED TO THE VILLAGE OR OTHER REVEW AGENCIES ON REQUEST SHALL BE PROVIDED TO THE VILLAGE OR OTHER REVEW AGENCIES ON RODUSTIC ON AND SECURITY C

SEQUENCE OF ACTIVITIES COORDINATE THESE ACTIONS WITH THOSE SHOWN ON LANDSCAPE DRAWINGS FOR PROPOSED SITE EROSION CONTROL PLAN SEE SHEET 5A FOR EROSION CONTROL DETAILS SEE SHEET 5B

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SEE SEQUENCE OF ACTIVITIES ON SHEET C-16

PHASE 2 SEE SEQUENCE OF ACTIVITIES ON SHEET C-22

PHASE 3

SHORT TERM MAINTENANCE PROGRAM

CONTRACTOR IS RESPONSIBLE FOR PROCESSING IEPA NOT

STORMWATER CONVEYANCE ELEMENTS	WEEKLY INSPECTION	SIGNIFICANT ASPECTS	SIGNIFICANT ASPECTS
GENERAL-ALL AREAS	JANUARY THROUGH DECEMBER	DISTURBED SURFACE AREAS	SEED AREA WITH GRASS OR NATIVE VEGETATION MULCH TO PROTECT
SWALES ON SITE	JANUARY THROUGH DECEMBER	BRANCHES & LEAVES/TRASH	COLLECT & DISPOSE
EMERGENCY OUTFLOW	JANUARY THROUGH DECEMBER	BRANCHES & LEAVES/TRASH PIPE CONDITION	COLLECT & DISPOSE REPAIR/REPLACE
MANHOLES	JANUARY THROUGH DECEMBER	BRANCHES & LEAVES/TRASH PIPE CONDITION	COLLECT & DISPOSE REPAIR/REPLACE
STORMWATER STORAGE AREA	JANUARY THROUGH DECEMBER	MOW NON-NATIVE VEGETATION	REMOVE/DISPOSE REFUSE/GRASS CLIPPINGS
ALL STORM PIPE	JANUARY THROUGH DECEMBER	CHECK FOR SILTATION	REMOVE DEBRIS AND SILT IF INDICATED
NATIVE PLANTINGS (WETLAND PLANTS)	JANUARY THROUGH DECEMBER	SEE NATIVE PLANTINGS REQUIREMENTS	SEE NATIVE PLANTINGS REQUIREMENTS

LONG TERM MAINTENANCE PROGRAM

STORMWATER CONVEYANCE ELEMENTS	PERIODIC INSPECTION	SIGNIFICANT ASPECTS
GRASSY AREAS-SWALES	SEED OR SOD	5 YEAR INTERVALS
EROSION PRON AREAS	DITCH CHECKS TO REDUCE FLOW VELOCITIES OR PLANT NATIVE VEGETATION	INSTALLED OR PLANT AS REQUIRED
GRASSY AREAS-PERIPHERY (BUFFER)	GROOM SEED	ANNUALLY 5 YEAR INTERVALS
NATIVE VEGETATION AREAS	CONTROLLED BURN	2 TO 3 YEAR INTERVALS
IN GRASSY AREA	RESEED	5 YEAR INTERVALS
DEPRESSIONAL AREA PERIPHERY-SILTATION (BUFFER)	REMOVE/RE-SEED	5 YEAR INTERVALS
AT CULVERT AND SWALES OUTFALLS, DETENTION PONDS	REMOVE SILTATION RE-SEED RESTORE RIPRAP	5 YEAR INTERVALS
EMERGENCY OUTFLOW PIPES	RESTORE/REPLACE INFLOW & OUTFLOW OPENINGS	5 YEAR INTERVALS
MANHOLES & CATCH BASINS	RESET COVER/LID	AS NEEDED BASIS

NOTES:

WHEN SHEET IS PRINTED CORRECTLY, THE ABOVE SCALE IS IN 1" INCREMENT

STORMWATER POLLUTION PREVENTION PLAN

1. OWNER IS RESPONSIBLE TO IMPLEMENT, PLAN AND PAY FOR ALL LONG TERM MAINTENANCE TASKS. 2. GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR SHALL CONDUCT SHORT TERM MAINTENANCE TASKS UNDER DIRECTION OF OWNER.

G&C #19-00

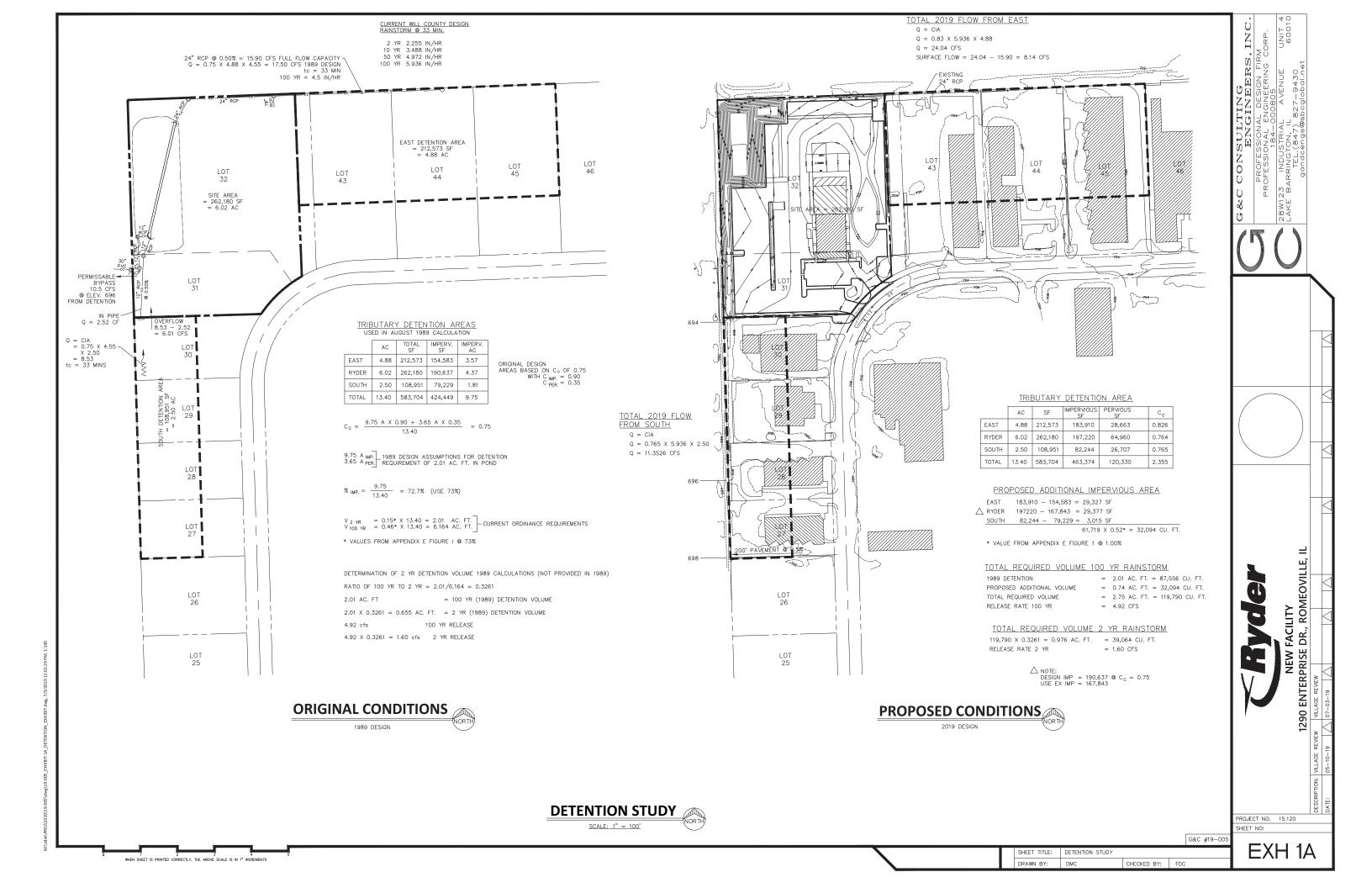
C-34

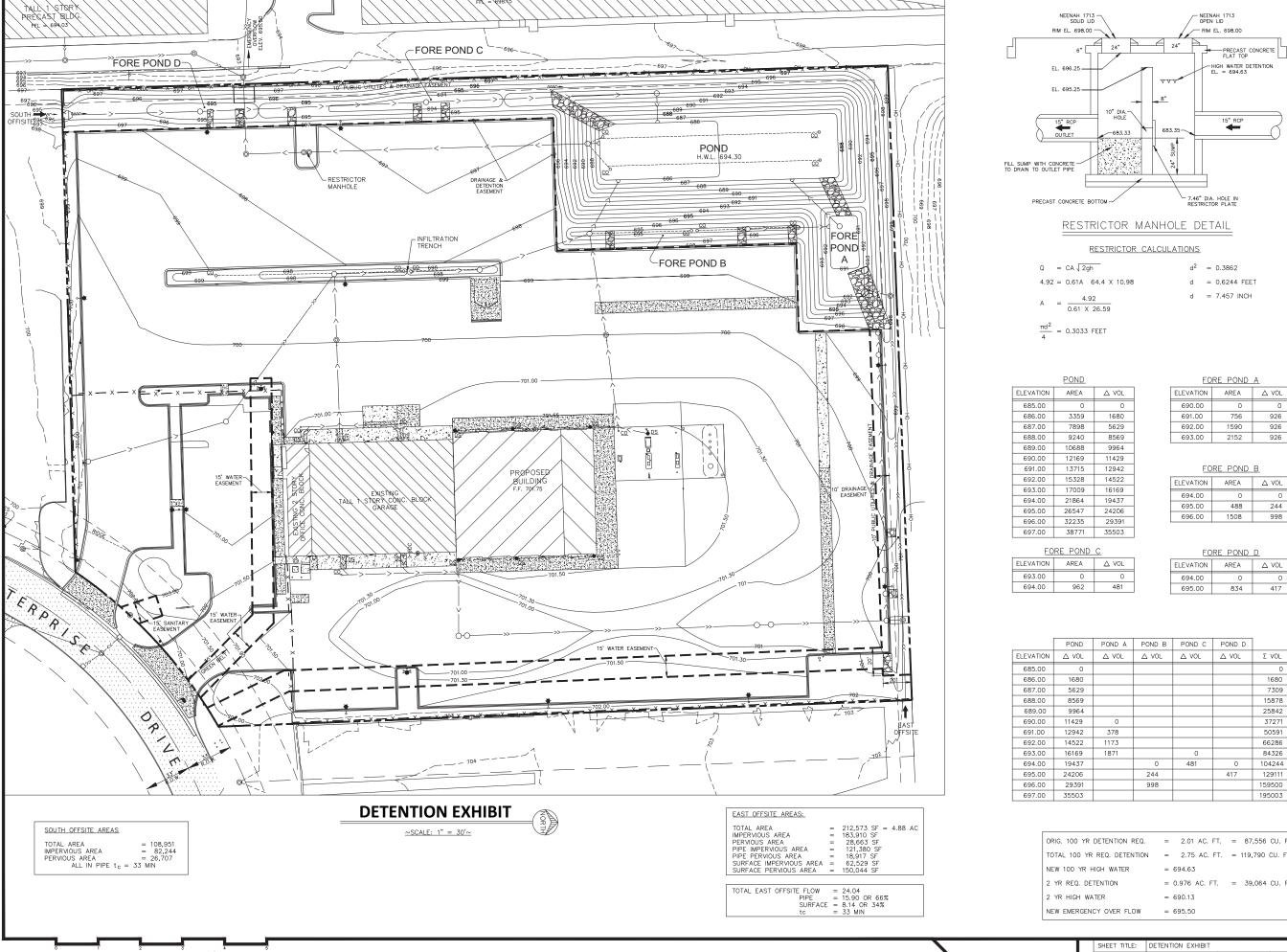
PROJECT NO:

SHEET NO:

15.120

ACILITY R., ROMEOVILLE, I





ELEVATION AREA 🛆 VOL 0 0 926 692.00 1590 926 693.00 2152 926

FORE POND B

TOTAL TOTAL D			
ELEVATION	AREA	△ VOL	
694.00	0	0	
695.00	488	244	
696.00	1508	998	

FORE POND D			
ELEVATION	AREA	△ VOL	
694.00	0	0	
695.00	834	417	

	POND	POND A	POND B	POND C	POND D]
ELEVATION	△ VOL	△ VOL	△ VOL	△ VOL	△ VOL	Σ VOL
685.00	0					0
686.00	1680					1680
687.00	5629					7309
688.00	8569					15878
689.00	9964					25842
690.00	11429	0				37271
691.00	12942	378				50591
692.00	14522	1173				66286
693.00	16169	1871		0		84326
694.00	19437		0	481	0	104244
695.00	24206		244		417	129111
696.00	29391		998			159500
697.00	35503					195003

ORIG. 100 YR DETENTION REQ.	= 2.01 AC. FT. = 87,556 CU. FT.
TOTAL 100 YR REQ. DETENTION	= 2.75 AC. FT. = 119,790 CU. FT.
NEW 100 YR HIGH WATER	= 694.63
2 YR REQ. DETENTION	= 0.976 AC. FT. = 39,064 CU. FT.
2 YR HIGH WATER	= 690.13
NEW EMERGENCY OVER FLOW	= 695.50

DRAWN BY: DMC

G&C #19-00

CHECKED BY: FDC

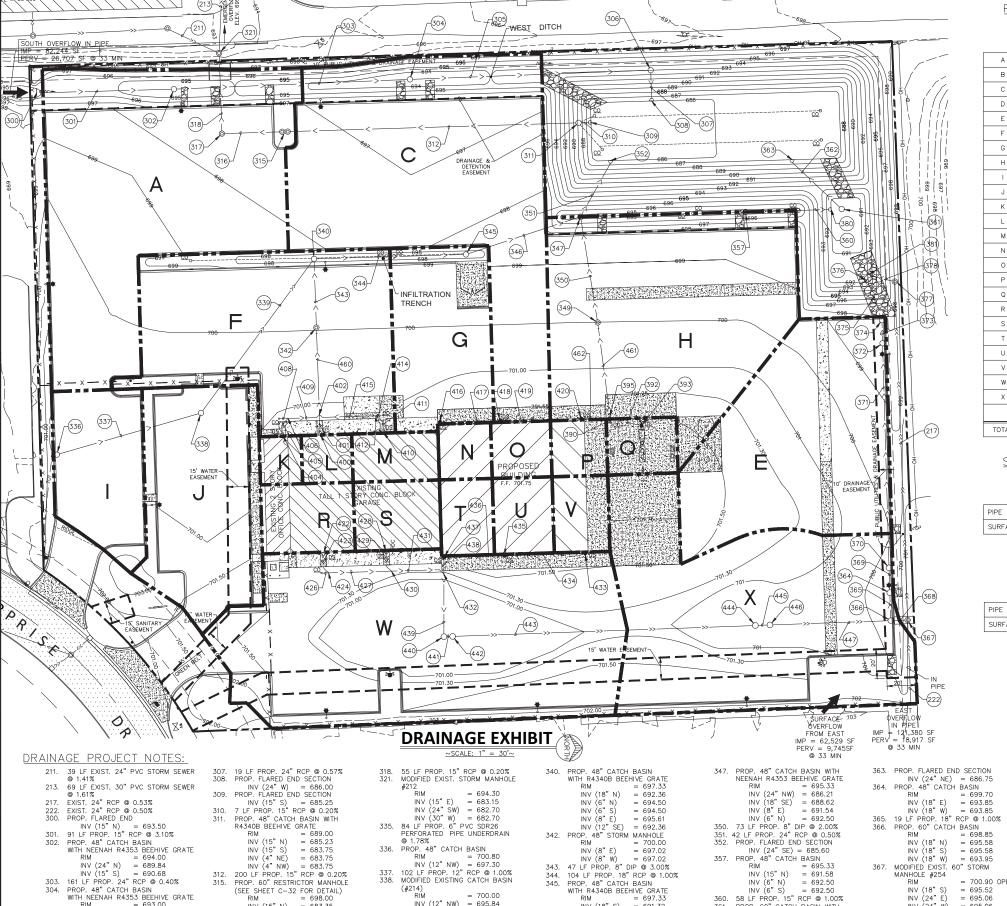
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PROJECT NO: 15.120 SHEET NO:

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ILITY EXPANSION se dr, romeoville, I



RYDER TRIBUTARY AREAS

	TOTAL	PERVIOUS	IMPERVIOUS
	S.F.	S.F.	S.F.
A	26739	4932	21807
В			
С	26747	4522	22225
D			
E	17112	0	17112
F	18966	1711	17255
G	8273	660	7316
Н	22558	1959	20599
1	6598	401	6197
J	12072	1437	10635
К	943	0	943
L	1133	0	1133
М	1940	0	1940
N	1372	0	1372
0	1554	0	1554
Р	1452	0	1452
Q	1830	0	1830
R	2978	0	2978
S	2768	0	2768
Т	1872	0	1872
U	2117	0	2117
V	1970	0	1970
w	30076	2723	27353
×	24816	3432	21384
TOTAL	215886	21777	22045

SOUTH TRIBUTARY AREAS

	TOTAL	PERVIOUS	IMPERVIOUS
	S.F.	S.F.	S.F.
PIPE	108951	82244	16707
SURFACE	0	0	0

EAST TRIBUTARY AREAS

	TOTAL	PERVIOUS	IMPERVIOUS
	S.F.	S.F.	S.F.
PIPE	183910	18917	121380
SURFACE	28663	9745	62529

DRAINAGE PROJECT NOTES (CC

ON.	TINUED):
	153 LF PROP. 18" RCP @ 0.80% PROP. 48" CATCH BASIN RIM = 698.15
	INV (18" E) = 692.75 INV (24" W) = 692.50
73.	16 LF PROP. 24" RCP @ 0.40%
74.	PROP. 60" CATCH BASIN
	RIM = 698.00
	INV (24" E) = 692.44
	INV (24" SW) = 692.44
	28 LF PROP. 24" RCP @ 0.40%
76.	PROP. FLARED END SECTION
	INV (24" NE) = 692.32
77.	PROP. 48" OPEN LID STORM
	MANHOLE
	RIM = 698.75
	INV (24" SW) = 692.44
	INV (24" E) = 693.84
78.	20 LF PROP. 24" RCP @ 0.60%
80.	PROP. FLARED END SECTION
0.4	INV (15" S) = 691.00
81.	
	INV (24" NE) = 692.32
	5 LF PROP. 8" DIP @ 2.00%
	23 LF PROP. 8" DIP @ 1.00%
95.	PROP. DOWNSPOUT, CONNECT TO PROP. PIPE #392
	INV (8" SW) = 697.82

DRAINAGE PROJECT NOTES
(CONTINUED):
400. EXIST. DOWNSPOUT, CONNECT TO PROP. PIPE #401
"NV (8" W.) = 698.48 401. 13 LF PROP. 8" DIP
401. 13 LF PROP. 8" DIP @ 2.00%
402. PROP. INV = 698.22 404. EXIST. DOWNSPOUT, CONNECT TO PROP. PIPE #405
INV (6" W) = 698.65
405, 13 LF PROP, 6" DIP @ 1,00%
406. PROP. INV = 698.62
408. 6 LF PROP. 6" DIP @ 1.00%
409. 22 LF PROP. 6" DIP @ 1.27%
410. EXIST. DOWNSPOUT, CONNECT TO PROP.
PIPE #411 INV (6" W) = 698.73
ÜNV (6"W) = 698.73 411. 13 LF PROP. 6"DIP ⊚ 1.00%
412 PROP INV (6") = 698 62
412. PROP. INV (6") = 698.62 414. 2 LF PROP. 6" DIP @ 0.95%
415. 39 LF PROP. 6" DIP @ 1.00%
416. PROP. DOWNSPOUT, CONNECT TO PROP.
PIPE #417
INV (8" N) = 698.75
417. 41 LF PROP. 8" DIP @ 1.00% 418. PROP. DOWNSPOUT, CONNECT TO PROP.
PIPE #417 AND #419
INV (#419 8" N) = 698 34
INV (#419 8" N) = 698.34 INV (#418 8" S) = 698.34
419. 55 LF PROP. 8" DIP @ 1.00%
420. PROP. DOWNSPOUT, CONNECT TO PROP.
PIPE #419 AND #421
INV (#421 8" N) = 697.79 INV (#419 8" S) = 697.79
INV (#419 8" S) = 697.79
422. EXIST. DOWNSPOUT, CONNECT TO
PROP. PIPE #423 INV (8" E @ BLDG.) = 698.78 423. 14 LF PROP. 8" DIP @ 1.00%
423 14 LE PROP 8" DIP @ 1 00%
424. PROP. INV. (@ PIPE #426 & #427)
= 698.64
426. 5 LF PROP. 8" DIP @ 1.00%
427. 43 LF PROP. 8" DIP @ 1.00%
428. EXIST. DOWNSPOUT, CONNECT TO
PROP. PIPE #429 INV (8" E @ BLDG.) =
429. 14 LF PROP. 8" DIP @ 1.00%
430. PROP. INV (@ PIPE #427 & # 431)
= 698.22
431. 37 LF PROP. 8" DIP @ 1.00%
432. PROP. INV (@ PIPE #439) = 697.85 433. PROP. DOWNSPOUT, CONNECT TO
433. PROP. DOWNSPOUT, CONNECT TO
PROP. PIPE #438 & #439 INV (8" S) = 698.93
INV (8" S) = 698.93
434. 55 LF PROP. 8" DIP @ 1.00% 435. PROP. DOWNSPOUT, CONNECT TO PROP.
PIPE #434 AND #436
INV (#434 8" N) = 698.38

CT NOTES

INV (8" W.) = 698.48	
401. 13 LF PROP. 8" DIP @ 2.00%	
402. PROP. INV = 698.22	
404. EXIST. DOWNSPOUT, CONNECT TO PR	OP.
PIPE #405	

S C

" DIP @ 1.00% DUT, CONNECT TO PROP 435. PROP. DUNSPOUT, CONNECT TO PROP. PIPE #434 AND #436 NV (#434 8" N) = 698.38 NV (#435 6" S) = 698.38 436.41 LF PROP. 8" DIP @ 1.00% 437. PROP. DOWNSPOUT, CONNECT TO PROP. PIPE #436 AND #438

INV (#436 8" N) = 697.96 INV (#438 12" E) = 697.96 438. 11 LF PROP. 12" DIP STORM SEWER

@ 1.00% ● 1.00%
439. 43 LF PROP. 12" DIP STORM SEWER
● 1.40%
440. PROP. 24" CATCH BASIN
RIM = 700.50
INV (15" N) = 697.36

INV (12" W) = 697.36 441. 6 LF PROP. 15" RCP @ 0.60% 442. PROP. 24" CATCH BASIN

RIM = 700.50 INV (15" N) = 697.32 INV (15" S) = 697.32 443. REMAINING 207 LF EXIST. 15" RCP (#251) © 0.60%

© 0.60%

444. MODIFIED EXIST. 48" CATCH BASIN (#252)

RIM = 700.50

INV (18" N) = 696.08

INV (15" S) = 696.08

445. 10 LF PROP. 18" RCP © 0.54%

446. PROP. 48" CATCH BASIN

RIM = 700.50

INV (18" N) = 696.03

INV (18" S) = 696.03

447. REMANING 82 LF EXIST. 18" RCP (#253)

447. REMAINING 82 LF EXIST. 18" RCP (#253) @ 0.54%

EXH 2A

60446

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'EXPANSION r, romeoville,

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enterprise

1290

SHEET TITLE: DRAINAGE EXHIBIT CHECKED BY: FDC

= 693.00

MTH NEEHAH R4340B BEEHIVE GRATE RIM = 693.00 INV (24" S) = 688.27 INV (24" E) = 686.11

RIM = 695.00 INV (24" N) = 689.20 INV (24" S) = 689.20 305. 164 LF PROP. 24" RCP @ 0.57%

306. PROP. 60" CATCH BASIN

RIM = 698.00 INV (15" N) = 683.35 INV (15" S) = 683.33 316. 43 LF PROP. 15" RCP @ 0.20%

317. PROP. 48" STORM MANHOLE
RIM = 697.45
INV (15" N) = 683.26
INV (15" W) = 683.26

| 1NV (12" NW) = 700.00 | 1NV (12" NW) = 695.84 | 1NV (12" SE) = 696.28 | 339. REMAINING 130 LF OF MODIFIED

EXIST. 12" RCP (#215) @ 2.70%

WITH R4340B BEEHIVE GRATE RIM = 697.33

RIM = 697.33 INV (18" S) = 691.32 INV (6" S) = 694.50 INV (18" NW) = 689.44 346. 82 LF PROP. 18" RCP @ 1.00% RIM = 695.33 INV (15" N) = 691.58 INV (6" N) = 692.50 INV (6" S) = 692.50 360. 58 LF PROP. 15" RCP ⊚ 1.00% 361. PROP. 60" CATCH BASIN WITH NEENAH R4340B BEEHIVE GRATE RIM = 690.50 INV (24" SW) = 686.82

362. 47 LF PROP. 24" RCP @ 0.15%

= 700.90 OPEN LID

MODIFIED EXIST. 60" STORM
MANHOLE #254
RIM = 700.90 OPEI
INV (18" S) = 695.52
INV (24" E) = 695.06
INV (24" W) = 695.06
INV (24" W) = 695.06
REMAINING 12 LE EXIST. 18" RCP
#253 © 0.54%
17 LF PROP. 18" RCP © 1.00% 369.

PROP. 48" CATCH BASIN RIM = 699.85 INV (18" E) = 693.68 INV (18" W) = 693.68

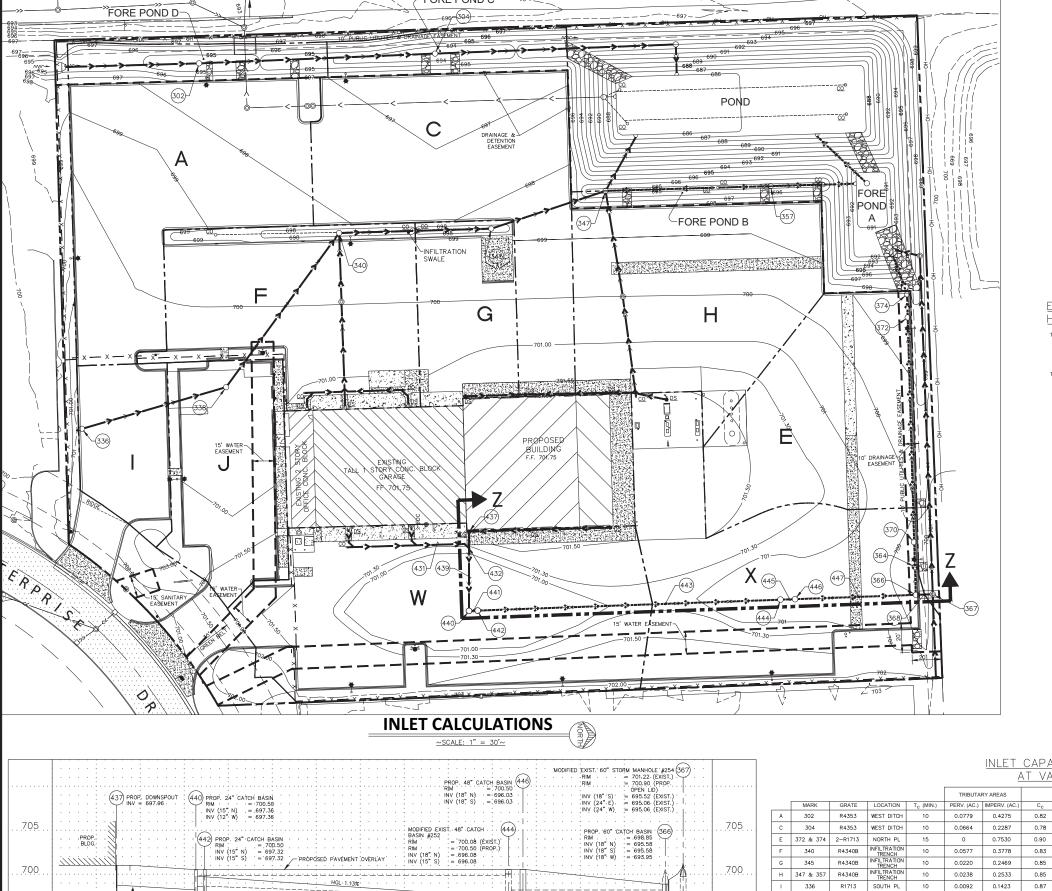
INV (8" SW)
395. PROP. INVERTS
INV (8" NW)
INV (8" S)
INV (8" E)

= 697.59 = 697.59

@ 0.54% 460. 60 LF PROP. 8" DIP @ 2.00% 461. 64 LF PROP. 8" DIP @ 2.00% 462. 20 LF PROP. 8" DIP @ 1.00%

G&C #19-00

PROJECT NO: 15.120 SHEET NO:



SECTION Z-Z

695

LEGEND

10 YEAR INLET BASKET

EXISTING PIPE TO REMIAN HYDRAULIC GRADE LINE CALCULATIONS

15" SURCHARGED 1.13% X 213 = 2.41' TOP OF 15" AT 444 = 696.08 + 1.25 = 697.33 HYDRAULIC GRADE AT 440 = 697.33 + 2.41 = 699.74

18" SURCHARGED 1.01% X 104 = 1.05' TOP OF 18" AT 366 = 695.52 + 1.50 = 607.02HYDRAULIC GRADE AT 444 = 697.02 + 1.05 = 698.07

TRIBUTARY AREAS TO INLETS

	TOTAL	PERVIOUS	IMPERVIOUS				
	S.F.	S.F.	S.F.				
A	22016	3394	18622				
С	12854	2894	9960				
E	32800	0	32800				
F	18967	2512	16455				
G	11716	960	10756				
н	12072	1038	11034				
- 1	6600	401	6199				
J	12078	1881	10197				
w	29506	2913	26593				
х	25266	3436	21830				
EAST	28663	9745	18918				

INLET CAPACITY CALCULATIONS AT VARIOUS DEPTHS

					TRIBUTARY AREAS INLET DESIGN (Q = CiA)				DESIGN REQUIREMENTS PER INLET		SINGLE INLET CAPACITY (CFS) AT VARIOUS DEPTHS				
	MARK	GRATE	LOCATION	T _C (MIN.)	PERV. (AC.)	IMPERV. (AC.)	Cc	AREA (AC.)	10 YR (IN/HR)	100 YR (IN/HR)	Q ₁₀ (CFS)	Q ₁₀₀ (CFS)	3"	6"	9"
Α	302	R4353	WEST DITCH	10	0.0779	0.4275	0.82	0.5054	6.18	10.15	2.55	4.16	2.8	6.1	7.5
С	304	R4353	WEST DITCH	10	0.0664	0.2287	0.78	0.2951	6.18	10.15	1.42	2.32	2.8	6.1	7.5
E	372 & 374	2-R1713	NORTH PL	15	0	0.7530	0.90	0.7530	5.28	9.00	3.58/2 = 1.79	6.10/2 = 3.05	2.5	4.4	5.4
F	340	R4340B	INFILTRATION TRENCH	10	0.0577	0.3778	0.83	0.4354	6.18	10.15	2.23	3.66	2.0	3.7	4.6
G	345	R4340B	INFILTRATION TRENCH	10	0.0220	0.2469	0.85	0.2690	6.18	10.15	1.42	2.33	2.0	3.7	4.6
н	347 & 357	R4340B	INFILTRATION TRENCH	10	0.0238	0.2533	0.85	0.2771	6.18	10.15	1.46/2 = 0.73	2.40/2 = 1.20	2.0	3.7	4.6
- 1	336	R1713	SOUTH PL	10	0.0092	0.1423	0.87	0.1515	6.18	10.15	0.81	1.33	2.5	4.4	5.4
J	338	R1713	EMPLOYEE PARKING	10	0.0432	0.2341	0.81	0.2773	6.18	10.15	1.40	2.29	2.5	4.4	5.4
w	440 & 442	2-R1713	SOUTHEAST PARKING	15	0.0669	0.6105	0.85	0.6774	5.28	9.00	3.02/2 = 1.51	5.14/2 = 2.57	2.5	4.4	5.4
Х	444 & 446	2-R1713	NORTHEAST PARKING	15	0.0789	0.5011	0.83	0.5800	5.28	9.00	2.53/2 = 1.27	4.31/2 = 2.16	2.5	4.4	5.4
EAST	364, 366 & 370	3-R1713	NORTH PL	33	0.2237	0.4343	0.71	0.6580	3.49	5.94	1.64/2 = 0.82	2.79/2 = 1.40	2.5	4.4	5.4

EXH 2B

PROJECT NO: 15.120 SHEET NO:

IL 60446

SHEET TITLE: INLET CALCULATIONS CHECKED BY: FDC DRAWN BY: DMC

695

8" RCP (431)

G&C #19-00

