	CIVIL DRAWING INDEX	
SHEET	DESCRIPTION	DATE
T-1.0	TITLE SHEET	1-22-21
C-1.0	OVERALL SITE PLAN	1-22-21
C-2.0 - C-2.1	SITE DEMOLITION PLAN	1-22-21
C-3.0 - C-3.1	SITE GEOMETRIC PLAN	1-22-21
C-4.0 - C-4.1	SITE DEVELOPMENT PLAN	1-22-21
C-4.2 - C-4.4	SITE DEVELOPMENT DETAILS	1-22-21
C-5.0 - C-5.1	SITE GRADING PLAN	1-22-21
C-6.0 - C-6.1	SITE UTILITY PLAN	1-22-21
C-6.2 - C-6.3	SITE UTILITY DETAILS	1-22-21
C-7.0 - C-7.1	STORM WATER POLLUTION PREVENTION PLAN	1-22-21
C-7.2	STORM WATER POLLUTION PREVENTION DETAILS	1-22-21
C-8.0 - C-8.1	PROJECT SPECIFICATIONS	1-22-21
L-1.0	LANDSCAPE PLAN	1-22-21
SUR-1 - SUR-2	TOPOGRAPHIC SURVEY (PREPARED BY WT GROUP)	08-05-20

**BENCHMARKS:** 

SITE BENCHMARK #I - RAILROAD SPIKE IN BASE OF UTILITY POLE LOCATED APPROXIMATELY 13' W OF ASPHALT PATH AND 220'S OF AZALEA LANE. ELEVATION=757.85' (NAVD88) SITE BENCHMARK #2 - SET CROSS ON ARROW BOLT OF HYDRANT LOCATED IN GRASS APPROXIMATELY 18' E OF ASH ROAD AND 60' NNE OF E. BLUEBONNET LANE.

ELEVATION=753.22' (NAVD88)

SITE BENCHMARK #3 - SET CROSS ON BOLT OF HYDRANT LOCATED IN GRASS APPROXIMATELY 8.4' S OF ASPHALT PATH AND 41.3' WOW OF MH #8. ELEVATION=760.49' (NAVD88)

# **BIRCH PARK 1045 ASH ROAD HOFFMAN ESTATES, IL 60169**



SCALE |"=800'

MAP DATA © 2020 GOOGLE

**SECTION 14 TOWNSHIP 41N** RANGE 10E

**LEGEND** STORM SEWER

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### CIVIL ENGINEERING STATEMENT AND SEAL

I, CHRISTOPHER SLYKAS, P.E., DULY LICENSED IN THE STATE OF ILLINOIS BY THE DEPARTMENT OF FINANCIAL AND PROFESSIONAL REGULATION, DO HEREBY STATE THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF DOES CONFORM TO THE APPLICABLE BUILDING CODES AND ORDINANCES, AND ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT [410 ILCS 25] AND THE ILLINOIS ACCESSIBILITY CODE (71 ILL. ADM CODE 400).

DATE

CHRISTOPHER SLYKAS - ILLINOIS P.E. # 062-055826 DATE OF EXPIRATION - NOVEMBER 30, 2021

# DRAINAGE CERTIFICATE:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE PROPOSED DEVELOPMENT. IF ANY DRAINAGE PATTERNS WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS APPROVED FOR THE USE BY THE MUNICIPAL ENGINEER, AND THAT SUCH SURFACE WATERS ARE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGES TO ADJOINING PROPERTIES.

DATED THIS	DAY OF	

062-055826 EXP. DATE 11/30/21

DESIGN ENGINEER- CHRISTOPHER SLYKAS, P.E.



CALL 1(800)892-0123 48 HOURS BEFORE YOU DIG

CONTRACTOR MUST LOCATE PRIVATE UTILITIES IN AREA OF CONSTRUCTION PRIOR TO PROCEEDING WITH WORK







### HATCH LEGEND



A S

NEW CONCRETE SIDEWALK

NEW FULL DEPTH ASPHALT PAVEMENT

NEW ASPHALT TRAIL

NEW ASPHALT PAVEMENT - BASKETBALL COURT

ASPHALT TRAIL RESTORATION

NEW ENGINEERED WOOD FIBER (BY OWNER)



**U**P GRO 60169 5 ASH ROAD OFFMAN ESTATES, IL BIRCH 104 ELECOMI ISSUE DATE VILLAGE 11-24-20 VILLAGE 12-23-20 MWRD 1-13-21 FOR BID 1-22-21

CHECK:CMS DRAWN:AC JOB:2001566C

> C-1.0 OVERALL PLAN



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- INV=747.87' (8" CLAY N/S)

- UNABLE TO DETERMINE SIZE AND MATERIAL OF PIPE OO 15 30



BE REMOVED TO GRAVEL BASE EXISTING WOOD CHIPS TO BE REMOVED (BY OWNER)

### SITE DEMOLITION NOTES:

- . CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND
- LOCAL REQUIREMENTS. B. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION PERMITS AND COORDINATE ALL DEMOLITION WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS NECESSARY AND TO PROVIDE STORM WATER CONVEYANCE UNTIL NEW FACILITIES ARE CONSTRUCTED, TESTED, AND PLACED IN OPERATION.
- C. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A DAILY PROGRAM OF DUST CONTROL PROCEDURES PRIOR TO DEMOLITION OF ANY STRUCTURES. MODIFICATION OF DUST CONTROL PROCEDURES SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF THE MUNICIPALITY AND COMPLY WITH THE NPDES II REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND THE INDIVIDUAL STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT.
- D. ALL EXISTING TREES, BRUSH AND MISCELLANEOUS VEGETATION TO BE REMOVED OR DEMOLISHED SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
- E. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.
- F. ALL EXISTING BUILDINGS, FOUNDATIONS, CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURB AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, AND MISCELLANEOUS DEBRIS) INDICATED TO BE DEMOLISHED SHALL BE REMOVED OR DEMOLISHED AND REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR.
- G. CONTACT GAS COMPANY PRIOR TO DEMOLITION. LOCATION OF EXISTING GAS SERVICES ARE UNKNOWN. H. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS. K. CONTRACTOR SHALL PROVIDE REMOVAL AND REPLACEMENT
- AND SHORING AS NECESSARY TO MEET OSHA AND LOCAL CODE, AS WELL AS MANUFACTURER'S REQUIREMENTS. L. ALL FOUNDATIONS FOR ALL FENCES, SIGNS, ETC. NOTED FOR
- REMOVAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFFSITE. M. PROOF-ROLLING SHALL BE PERFORMED FOR ALL SUBGRADE PRIOR TO CONSTRUCTION OF NEW PAVEMENT. ALL SUBGRADE
- PROOF-ROLLING SHALL BE WITNESSED AND APPROVED BY A MATERIALS TESTING AGENCY TO BE HIRED BY THE OWNER. CONTRACTOR TO COORDINATE ALL PROOF-ROLLING WITH THE MATERIALS TESTING AGENCY. CONTACT THE ENGINEER AND MATERIAL TESTING AGENCY SO THAT THEY MAY WITNESS THE PROOF ROLL. PROOF ROLL SHALL BE PROVIDED FOR ALL PAVEMENT AREAS SPECIFIED FOR FULL DEPTH REMOVAL AND REPLACEMENT.
- N. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 7-20-20, PREPARED BY WT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- O. SEE SHEETS SUR-I AND SUR-2 "TOPOGRAPHIC SURVEY" FOR ALL EXISTING LOCATED UTILITY DATA. P. CLEAR SITE AS NECESSARY TO CONSTRUCT PROPOSED
- IMPROVEMENTS. Q. ALL ITEMS MARK "EXISTING OR EXISTING TO REMAIN" TO BE PROTECTED FROM DAMAGE FOR THE DURATION OF
- CONSTRUCTION. R. CONTRACTOR TO PROVIDE SOIL TESTING SERVICES FOR COMPLETION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S LPC-662 AND/OR LPC-663 FORMS AS PART OF THEIR CONTRACT.
- S. ALL EXISTING UTILITIES TO BE ABANDONED IN PLACE SHALL BE CAPPED WITH 2' LONG (MIN.) NON-SHRINK CONCRETE MORTAR PLUGS AT BOTH ENDS.

SEE SHEET C-2.1 FOR

**PROJECT NOTES** 

NORT

|" = 30'

60

120







### **EXISTING UTILITY DATA**

	RIM=748.86' (STORM) 96" CONCRETE STRUCTURE INV=745.52' (18" CPP WNW) INV=745.29' (24" RCP NNE) INV=745.40' (15" CPP ESE) INV=744.74' (29" X 45" ELLIPTICAL RCP
$\land$	RIM=749.73' (SANITARY)

- 48" CONCRETE STRUCTURE INV=741.90' (8" CLAY WNW/ESE) INV=742.60' (6" CLAY SSW) RIM=749.99' (STORM)
- 24" CONCRETE STRUCTURE INV=747.97' (4" PVC NW) INV=747.90' (8" PVC NNE/SSW) RIM=750.92' (STORM)
- 4 24" CONCRETE STRUCTURE INV=748.47' (8" PVC WNW/NE/SSW) INV=749.52' (4" PVC N) INV=749.32' (4" PVC N) INV=749.47' (4" PVC E)
- RIM=753.65' (SANITARY) 48" CONCRETE STRUCTURE INV=746.69' (8" CLAY N/SSW)
- RIM=752.06' (SANITARY) ∠6 48" CONCRETE STRUCTURE INV=740.71' (8" CLAY WNW/NNE/ESE) INV=744.19' (8" CLAY NNE) INV=740.71' (12" CLAY SSW)
- $\land$  RIM=757.22' (SANITARY) 48" CONCRETÈ STRUCTURE INV=747.87' (8" CLAY N/S)
- $\land$  RIM=759.49' (SANITARY) 48" CONCRETE STRUCTURE INV=752.34' (8" CLAY N/SSW)
- RIM=765.70' (SANITARY) OUTSIDE SCOPE <u>∠9</u> 48" CONCRETE STRUCTURE INV=757.79' (8" CLAY W/N/SSW)
- RIM=765.05' (WATER) OUTSIDE SCOPE 10 UNABLE TO DETERMINE SIZE OF STRUCTURE TOP OF PIPE=759.36' (DIP N/S) TOP OF PIPE=759.68' (DIP W) UNABLE TO DETERMINE SIZES OF PIPES TOP OF WATER=763.91'
- RIM=766.94' (SANITARY) OUTSIDE SCOPE 48" CONCRETE STRUCTURE INV=759.28' (8" CLAY E/W)
- RIM=766.74' (SANITARY) 48" CONCRETÈ STRUCTURE INV=761.19' (6" METAL SW) INV=760.50' (8" CLAY E
- RIM=755.45' (SANITARY) 48" CONCRETE STRUCTURE INV=748.19' (8" CLAY NNE/SSW)
- RIM=757.95' (WATER) 14 UNABLE TO DÈTERMINE SIZE OF STRUCTURE TOP OF PIPE=753.43' (NNE/SSW) UNABLE TO DETERMINE SIZE AND MATERIAL OF PIPE TOP OF WATER=756.95'

### **DEMOLITION LEGEND**

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### **PROJECT NOTES:**

- EXISTING BUILDING TO REMAIN. 2. EXISTING ASPHALT PAVEMENT TO REMAIN. EXISTING CONCRETE PAVEMENT TO REMAIN. 4. EXISTING HYDRANT TO REMAIN. 5. EXISTING CONCRETE CURB TO REMAIN. 6. EXISTING FENCE TO REMAIN. EXISTING METAL SIGN TO REMAIN 8. EXISTING UTILITY POLE TO REMAIN. 9. EXISTING SIGN TO REMAIN. IO. EXISTING CURB AND GUTTER TO REMAIN. II. EXISTING BENCH TO BE REMOVED. (BY OWNER) 12. EXISTING PLAYGROUND EQUIPMENT TO BE REMOVED (BY OWNER). 13. EXISTING GUY WIRE TO REMAIN. 14. EXISTING OVERHEAD LINE TO REMAIN. 15. EXISTING WOOD CHIPS TO BE REMOVED (BY OWNER). 16. CONTRACTOR SHALL TRACE AND FIELD VERIFY LOCATION OF EXISTING STORM SEWER PRIOR TO CONSTRUCTION. 17. EXISTING WATER MAIN TO REMAIN. 18. EXISTING STORM STRUCTURE TO REMAIN. 19. EXISTING STORM SEWER TO REMAIN. 20. EXISTING SANITARY STRUCTURE TO REMAIN. 21. EXISTING SANITARY SEWER TO REMAIN. 22. EXISTING FLARED END SECTION TO REMAIN. 23. EXISTING RIPRAP TO REMAIN. 24. EXISTING TRASH CAN TO REMAIN. 25. EXISTING CONCRETE HEADWALL TO BE REMOVED. 26. EXISTING WETLAND LIMITS. 27. NEW FULL DEPTH SAW CUT OF EXISTING ASPHALT PAVEMENT TO PROVIDE A CLEAN CONSTRUCTION BREAK AND STRAIGHT EDGE. 28. NEW FULL DEPTH SAW CUT OF EXISTING CONCRETE PAVEMENT AT NEAREST JOINT BEYOND PROPOSED LOCATION. (BY OWNER) 29. EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE PROPOSED PAVEMENT CROSS SECTIONS (PROPOSED SUBGRADE ELEVATION). SEE THE SITE DEVELOPMENT DETAILS FOR THE PROPOSED PAVEMENT CROSS SECTIONS AND THE SITE GRADING PLAN FOR THE PROPOSED FINISHED GRADES. 30. EXISTING CONCRETE PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE PROPOSED PAVEMENT CROSS SECTIONS (PROPOSED SUBGRADE ELEVATION). SEE THE SITE DEVELOPMENT DETAILS FOR THE PROPOSED PAVEMENT CROSS SECTIONS AND THE SITE GRADING PLAN FOR THE PROPOSED FINISHED GRADES. (BY OWNER) 31. EXISTING TREE/SHRUB TO BE REMOVED. (BY OWNER) 32. NEW 2' BUTT JOINT. 33. EXISTING UTILITY POLE WITH LIGHT FIXTURE TO REMAIN. 34. EXISTING CONCRETE RETAINING WALL TO BE REMOVED. (BY OWNER)
- 35. EXISTING CONCRETE CURB TO BE REMOVED. (BY OWNER) 36. EXISTING ASPHALT PAVEMENT TO BE REMOVED DOWN TO GRAVEL SUBBASE. 37. EXISTING STORM SEWER TO BE ABANDONED.
- 38. EXISTING FENCE TO BE REMOVED. (BY OWNER) 39. EXISTING STORM SEWER / UNDERDRAIN PER RECORD DOCUMENTS TO REMAIN. OWNER TO VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION. 40. EXISTING 18" CMP TO REMAIN. CONTRACTOR SHALL
- EXPOSE ENTIRE PIPE AND CONTACT THE PROJECT ENGINEER TO DETERMINE CONDITION OF PIPE BEFORE THE NEW PARKING LOT IS CONSTRUCTED. 41. EXISTING STORM SEWER TO BE REMOVED WITHIN
- RIGHT-OF-WAY. PLUG END OF PIPE WITH 2' LONG NON-SHRINK CONCRETE MORTAR. 42. EXISTING TREE TO BE REMOVED ONLY IF PROJECT ENGINEER DETERMINES THAT THE ADJACENT CULVERT IS
- TO BE REMOVED AND REPLACED. (SEE PROJECT NOTE #40 ON SHEET C-2.1). TREE REMOVAL WOULD BE DONE BY THE OWNER. 43. EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE PROPOSED PAVEMENT CROSS SECTIONS (PROPOSED SUBGRADE ELEVATION). SEE THE SITE DEVELOPMENT DETAILS FOR
- THE PROPOSED PAVEMENT CROSS SECTIONS AND THE SITE GRADING PLAN FOR THE PROPOSED FINISHED GRADES. (BY OWNER) 44. NEW FULL DEPTH SAW CUT OF EXISTING ASPHALT
- PAVEMENT TO PROVIDE A CLEAN CONSTRUCTION BREAK AND STRAIGHT EDGE. (BY OWNER)

- TING STORM SEWER
- TING SANITARY SEWER
- TING WATER MAIN
- TING OVERHEAD LINES
- TING CLOSED MANHOLE
- TING OPEN GRATE MANHOLE
- TING BEEHIVE GRATE MANHOLE
- TING CURB INLET
- TING FIRE HYDRANT
- TING VALVE VAULT
- TING B-BOX
- TING SIGN
- TING TREE
- HATCH LEGEND
  - EXISTING ASHALT PAVEMENT TO BE REMOVED FULL DEPTH EXISTING CONCRETE PAVEMENT TO BE REMOVED FULL DEPTH EXISTING ASPHALT PAVEMENT TO BE REMOVED TO GRAVEL BASE EXISTING WOOD CHIPS TO BE

REMOVED (BY OWNER)

**KEYMAP** 

SCALE: N.T.S.

(NORTH)

#### SITE DEMOLITION NOTES:

- A. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND
- LOCAL REQUIREMENTS. B. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION PERMITS AND COORDINATE ALL DEMOLITION WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS NECESSARY AND TO PROVIDE STORM WATER CONVEYANCE UNTIL NEW FACILITIES ARE CONSTRUCTED, TESTED,
- AND PLACED IN OPERATION. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A DAILY PROGRAM OF DUST CONTROL PROCEDURES PRIOR TO DEMOLITION OF ANY STRUCTURES. MODIFICATION OF DUST CONTROL PROCEDURES SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF THE MUNICIPALITY AND COMPLY WITH THE NPDES II REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND THE INDIVIDUAL STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT.
- D. ALL EXISTING TREES, BRUSH AND MISCELLANEOUS VEGETATION TO BE REMOVED OR DEMOLISHED SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
- E. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.
- F. ALL EXISTING BUILDINGS, FOUNDATIONS, CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURB AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, AND MISCELLANEOUS DEBRIS) INDICATED TO BE DEMOLISHED SHALL BE REMOVED OR DEMOLISHED AND REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR.
- G. CONTACT GAS COMPANY PRIOR TO DEMOLITION. LOCATION OF EXISTING GAS SERVICES ARE UNKNOWN. H. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE NOTED.
- ALL EXISTING UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED. J. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
- K. CONTRACTOR SHALL PROVIDE REMOVAL AND REPLACEMENT AND SHORING AS NECESSARY TO MEET OSHA AND LOCAL CODE, AS WELL AS MANUFACTURER'S REQUIREMENTS.
- ALL FOUNDATIONS FOR ALL FENCES, SIGNS, ETC. NOTED FOR REMOVAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFFSITE. M. PROOF-ROLLING SHALL BE PERFORMED FOR ALL SUBGRADE
- PRIOR TO CONSTRUCTION OF NEW PAVEMENT. ALL SUBGRADE PROOF-ROLLING SHALL BE WITNESSED AND APPROVED BY A MATERIALS TESTING AGENCY TO BE HIRED BY THE OWNER. CONTRACTOR TO COORDINATE ALL PROOF-ROLLING WITH THE MATERIALS TESTING AGENCY. CONTACT THE ENGINEER AND MATERIAL TESTING AGENCY SO THAT THEY MAY WITNESS THE PROOF ROLL. PROOF ROLL SHALL BE PROVIDED FOR ALL PAVEMENT AREAS SPECIFIED FOR FULL DEPTH REMOVAL AND REPLACEMENT.
- EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 7-20-20, PREPARED BY WT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- O. SEE SHEETS SUR-I AND SUR-2 "TOPOGRAPHIC SURVEY" FOR ALL EXISTING LOCATED UTILITY DATA. P. CLEAR SITE AS NECESSARY TO CONSTRUCT PROPOSED
- IMPROVEMENTS. Q. ALL ITEMS MARK "EXISTING OR EXISTING TO REMAIN" TO BE
- PROTECTED FROM DAMAGE FOR THE DURATION OF CONSTRUCTION.
- R. CONTRACTOR TO PROVIDE SOIL TESTING SERVICES FOR COMPLETION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S LPC-662 AND/OR LPC-663 FORMS AS PART OF THEIR CONTRACT. S. ALL EXISTING UTILITIES TO BE ABANDONED IN PLACE SHALL BE
- CAPPED WITH 2' LONG (MIN.) NON-SHRINK CONCRETE MORTAR PLUGS AT BOTH ENDS.





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**C-2.1** SITE DEMOLITION PLAN









NEW ASPHALT TRAIL

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NEW ASPHALT PAVEMENT - BASKETBALL COURT

ASPHALT TRAIL RESTORATION

NEW ENGINEERED WOOD FIBER (BY OWNER)

### SITE GEOMETRIC NOTES:

- A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 7-20-20, PREPARED BY WT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- B. ALL DIMENSIONS SHOWN ARE MEASURED FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.
- C. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE DESPONSIBILITY OF THE CONTRACTOR.
   D. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT
- THE SITE ENGINEER IF A CONFLICT EXISTS. E. CONTRACTOR SHALL CONTACT J.U.L.I.E. (811 OR 1-800-892-0123) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR
- EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
- F. ASPHALT PAVEMENT MARKINGS SHALL BE MADE WITH HIGH QUALITY PAINT CONFORMING TO ARTICLE 1095.02 OF THE IDOT STANDARD SPECIFICATIONS.



Ω Ľ C >60169 ⊒ 45 ASH ROAD HOFFMAN ESTATES, I PARK MUN BIRCH ELECOMI 40 H ISSUE DATE VILLAGE 11-24-20 VILLAGE 12-23-20 MWRD 1-13-21 ()FOR BID 1-22-21



C-3.1 SITE GEOMETRIC PLAN



HATCH LE	GEND
	NEW CONCRETE SIDEWALK
	NEW FULL DEPTH ASPHALT PAVE
	NEW ASPHALT TRAIL
	<u>NEW ASPHALT PAVEMENT - BASK</u>
	ASPHALT TRAIL RESTORATION
	<u>NEW ENGINEERED WOOD FIBER (B</u>

![](_page_6_Picture_2.jpeg)

### SITE DEVELOPMENT NOTES:

- A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 7-20-20 PREPARED BY WT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- B. CONTRACTOR SHALL COORDINATE ALL LANDSCAPING
- IMPROVEMENTS WITH THE OWNER. C. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE
- RESPONSIBILITY OF THE CONTRACTOR.
- D. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.
- E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER. ASPHALT PAVEMENT MARKINGS SHALL BE MADE WITH HIGH QUALITY PAINT CONFORMING TO ARTICLE 1095.02 OF THE IDOT
- STANDARD SPECIFICATIONS. G. CONTRACTOR SHALL RESTORE ALL DISTURBED GREEN SPACES WITH 6" OF TOPSOIL, SEED, AND EROSION CONTROL BLANKET.
- H. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT , CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- I. CONTRACTOR SHALL RE-STRIPE ALL STRIPING DISTURBED WITHIN THE EXISTING ROADWAYS/PARKING LOT TO MATCH EXISTING. J. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO
- LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS. K. ALL ITEMS MARKED "EXISTING" TO BE PROTECTED FROM
- DAMAGE FOR THE DURATION OF CONSTRUCTION. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

### **PROJECT NOTES:**

- EXISTING BUILDING TO REMAIN. 2. EXISTING ASPHALT PAVEMENT TO REMAIN.
- 3. EXISTING CONCRETE PAVEMENT TO REMAIN.
- 4. EXISTING HYDRANT TO REMAIN.
- 5. EXISTING CONCRETE PLAYGROUND CURB TO REMAIN. 6. EXISTING FENCE TO REMAIN.
- 7. EXISTING METAL SIGN TO REMAIN.
- 8. EXISTING UTILITY POLE TO REMAIN. 9. EXISTING SIGN TO REMAIN.
- IO. EXISTING CURB AND GUTTER TO REMAIN.
- II. EXISTING WOOD POST TO REMAIN.
- 12. NEW PLAYGROUND EQUIPMENT TO BE PROVIDED AND INSTALLED BY OWNER. 13. NEW ASPHALT PAVEMENT.
- 14. NEW CONCRETE SIDEWALK.
- 15. NEW BULL NOSE CURB.
- 16. NEW FULL DEPTH SAW CUT OF EXISTING ASPHALT PAVEMENT TO PROVIDE A CLEAN CONSTRUCTION BREAK AND STRAIGHT EDGE. 17. NEW 16' X 30' HIP END STRUCTURE TO BE PROVIDED AND
- INSTALLED BY OWNER. CONTRACTOR SHALL PROVIDE CONCRETE FOUNDATIONS FOR STRUCTURE. (COORDINATE WITH OWNER PRIOR TO INSTALLATION). SEE SHELTER DRAWINGS FOR DETAILS.
- 18. NEW BASKETBALL HOOP TO BE PROVIDED AND INSTALLED BY OWNER. CONTRACTOR SHALL PROVIDE CONCRETE FOUNDATION FOR BASKETBALL HOOP. (COORDINATE WITH OWNER PRIOR TO INSTALLATION)
- 19. NEW PAVEMENT STRIPING (WHITE). 20. NEW BASKETBALL COURT AREA.
- 21. NEW ASPHALT TRAIL.
- 22. NEW FULL DEPTH SAW CUT OF EXISTING CONCRETE PAVEMENT AT NEAREST JOINT BEYOND PROPOSED LOCATION. (BY OWNER) 23. EXISTING RIPRAP TO REMAIN.
- 24. EXISTING TRASH CAN TO REMAIN.
- 25. NEW B6.12 CONCRETE CURB AND GUTTER. 26. EXISTING WETLAND LIMITS.
- 27. NEW FULL DEPTH SAW CUT OF EXISTING ASPHALT PAVEMENT TO PROVIDE A CLEAN CONSTRUCTION BREAK AND STRAIGHT EDGE. 28. NEW ACCESSIBLE PARKING STRIPING AND SYMBOL.
- 29. NEW ADA PARKING SIGN. 30. NEW PAVEMENT STRIPING (YELLOW).
- 31. NEW DETECTABLE WARNING PLATE.
- 32. NEW B6.12 CONCRETE CURB AND GUTTER WITH REVERSE GUTTER PITCH.
- 33. NEW ASPHALT PAVEMENT BASKETBALL COURT. 34. NEW 2' BUTT JOINT.
- 35. EXISTING UTILITY POLE WITH LIGHT FIXTURE TO REMAIN.
- 36. NEW CONCRETE PLAYGROUND CURB. (BY OWNER)
- 37. NEW ENGINEERED WOOD FIBER. (BY OWNER)
- 38. NEW SOCCER FIELD STRIPING. (BY OWNER)
- 39. NEW MONOLITHIC CURB AND SIDEWALK. 40. NEW ASPHALT TRAIL RESTORATION. (SEE DETAIL ON SHEET
- C-4.3)
- 41. NEW B6.12 DEPRESSED CURB AND GUTTER WITH ADA ACCESS. 42. NEW PLANTER BOX (SEE DETAIL).
- 43. NEW 3' WIDE CURB CUT.
- 44. NEW FULL DEPTH SAW CUT OF EXISTING ASPHALT PAVEMENT TO PROVIDE A CLEAN CONSTRUCTION BREAK AND STRAIGHT EDGE. (BY OWNER)

![](_page_6_Picture_53.jpeg)

![](_page_6_Picture_54.jpeg)

**O** <sup>•</sup> Ľ C 3 60169  $\exists$ 'ATES, 45 ASH ROAD OFFMAN EST/ PARK 104 H BIRCH ISSUE DATE VILLAGE 11-24-20 VILLAGE 12-23-20 MWRD 1-13-21 FOR BID 1-22-21

![](_page_6_Figure_56.jpeg)

**C-4.0** SITE DEVELOPMENT PLAN

![](_page_7_Picture_0.jpeg)

#### **PROJECT NOTES:**

- EXISTING BUILDING TO REMAIN. EXISTING ASPHALT PAVEMENT TO REMAIN.
- 3. EXISTING CONCRETE PAVEMENT TO REMAIN. 4. EXISTING HYDRANT TO REMAIN.
- 5. EXISTING CONCRETE PLAYGROUND CURB TO REMAIN. 6. EXISTING FENCE TO REMAIN.
- 7. EXISTING METAL SIGN TO REMAIN.
- 8. EXISTING UTILITY POLE TO REMAIN. 9. EXISTING SIGN TO REMAIN.
- IO. EXISTING CURB AND GUTTER TO REMAIN. II. EXISTING WOOD POST TO REMAIN. 12. NEW PLAYGROUND EQUIPMENT TO BE PROVIDED AND INSTALLED
- BY OWNER. 13. NEW ASPHALT PAVEMENT.
- 14. NEW CONCRETE SIDEWALK. 15. NEW BULL NOSE CURB.
- 16. NEW FULL DEPTH SAW CUT OF EXISTING ASPHALT PAVEMENT TO
- 17. NEW 16' X 30' HIP END STRUCTURE TO BE PROVIDED AND INSTALLED BY OWNER. CONTRACTOR SHALL PROVIDE CONCRETE FOUNDATIONS FOR STRUCTURE. (COORDINATE WITH OWNER PRIOR TO INSTALLATION). SEE SHELTER DRAWINGS FOR DETAILS.
- 18. NEW BASKETBALL HOOP TO BE PROVIDED AND INSTALLED BY OWNER. CONTRACTOR SHALL PROVIDE CONCRETE FOUNDATION FOR BASKETBALL HOOP. (COORDINATE WITH OWNER PRIOR TO INSTALLATION)
- 19. NEW PAVEMENT STRIPING (WHITE). 20. NEW BASKETBALL COURT AREA.
- 21. NEW ASPHALT TRAIL.
- 22. NEW FULL DEPTH SAW CUT OF EXISTING CONCRETE PAVEMENT AT NEAREST JOINT BEYOND PROPOSED LOCATION. (BY OWNER) 23. EXISTING RIPRAP TO REMAIN.
- 24. EXISTING TRASH CAN TO REMAIN. 25. NEW B6.12 CONCRETE CURB AND GUTTER.
- 26. EXISTING WETLAND LIMITS. 27. NEW FULL DEPTH SAW CUT OF EXISTING ASPHALT PAVEMENT TO
- 28. NEW ACCESSIBLE PARKING STRIPING AND SYMBOL.
- 29. NEW ADA PARKING SIGN.
- 30. NEW PAVEMENT STRIPING (YELLOW). 31. NEW DETECTABLE WARNING PLATE. 32. NEW B6.12 CONCRETE CURB AND GUTTER WITH REVERSE GUTTER PITCH.
- 33. NEW ASPHALT PAVEMENT BASKETBALL COURT. 34. NEW 2' BUTT JOINT.
- 35. EXISTING UTILITY POLE WITH LIGHT FIXTURE TO REMAIN.
- 36. NEW CONCRETE PLAYGROUND CURB. (BY OWNER) 37. NEW ENGINEERED WOOD FIBER. (BY OWNER)
- 38. NEW SOCCER FIELD STRIPING. (BY OWNER)
- 39. NEW MONOLITHIC CURB AND SIDEWALK. 40. NEW ASPHALT TRAIL RESTORATION. (SEE DETAIL ON SHEET
- C-4.3) 41. NEW B6.12 DEPRESSED CURB AND GUTTER WITH ADA ACCESS.
- 42. NEW PLANTER BOX (SEE DETAIL). 43. NEW 3' WIDE CURB CUT. 44. NEW FULL DEPTH SAW CUT OF EXISTING ASPHALT PAVEMENT TO PROVIDE A CLEAN CONSTRUCTION BREAK AND STRAIGHT EDGE. (BY OWNER)

![](_page_7_Picture_28.jpeg)

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45 ASH ROAD OFFMAN EST/

104 H

PARK

BIRCH

ECOM

### HATCH LEGEND

NEW CONCRETE SIDEWALK

NEW FULL DEPTH ASPHALT PAVEMENT

#### NEW ASPHALT TRAIL

NEW ASPHALT PAVEMENT - BASKETBALL COURT

ASPHALT TRAIL RESTORATION

NEW ENGINEERED WOOD FIBER (BY OWNER)

### SITE DEVELOPMENT NOTES:

- A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 7-20-20 PREPARED BY WT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- B. CONTRACTOR SHALL COORDINATE ALL LANDSCAPING IMPROVEMENTS WITH THE OWNER.
- C. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- D. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.
- E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER. ASPHALT PAVEMENT MARKINGS SHALL BE MADE WITH HIGH QUALITY PAINT CONFORMING TO ARTICLE 1095.02 OF THE IDOT STANDARD SPECIFICATIONS.
- G. CONTRACTOR SHALL RESTORE ALL DISTURBED GREEN SPACES WITH 6" OF TOPSOIL, SEED, AND EROSION CONTROL BLANKET. H. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO
- EXISTING ASPHALT , CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- CONTRACTOR SHALL RE-STRIPE ALL STRIPING DISTURBED WITHIN ١. THE EXISTING ROADWAYS/PARKING LOT TO MATCH EXISTING. J. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT
- THE SITE ENGINEER IF A CONFLICT EXISTS. K. ALL ITEMS MARKED "EXISTING" TO BE PROTECTED FROM DAMAGE FOR THE DURATION OF CONSTRUCTION.
- L. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

![](_page_7_Picture_47.jpeg)

PROVIDE A CLEAN CONSTRUCTION BREAK AND STRAIGHT EDGE.

- PROVIDE A CLEAN CONSTRUCTION BREAK AND STRAIGHT EDGE.

![](_page_7_Picture_55.jpeg)

120

![](_page_8_Figure_0.jpeg)

![](_page_9_Figure_0.jpeg)

SITE DEVELOPMENT DETAILS

![](_page_10_Figure_0.jpeg)

					$10'-8\frac{5}{8}"$
ed nd , py	SHELTER By SUPERIOR RECREATIONAL PRODUCTS	DESCRIPTION: 16'x30' (AS) Hip End Structure QUOTE #: PROJECT NAME: QUO181204 Hoffman Estates Park District	DATE DRAWN BY 6/4/2019 J.C. SCALE SHEET NOT TO SCALE 2. of 5.	These drawings are for reference only and should not be used as construction details. They show the general character and rough dimensions of the structural features. Exact spans, fasteners, materials, and foundations can be determined by a licensed structural engineer upon request.	SHELTER BY SUPERIOR RECREATIONAL PRODUCTS
	GENERAL MATERIAL SPECIF         1. ALL STRUCTURAL STEE         2. ALL OTHER STEEL (PLA         3. ALL WELDING IS TO BE COMPONENT PARTS. (I         4. INCLUDED HARDWARE         5. PRODUCTION OF LAMII STRUCTURAL GLUED LA         6. IF INCLUDED TONGUE A         7. POWDER COATING PRO STAGE 1 - Blast all stee STAGE 2 - Remove dus STAGE 3 - This stage is manufacturer, application is a The 4,000 hour         STAGE 4 - This process STAGE 5 - This stage is the Stage 4 Ep and has tested hours.         STAGE 6 - Curing Proce         8. IF INCLUDED METAL RC ROOFING WILL COME P REQUIRE NOTCHING O         GENERAL NOTES:         • UNLESS REQUESTED OR IF THE BUILDING I BE REENGINEERED PI         • IF SPECIFICATIONS AI MATCH. DESIGNS WIL         ABBREVIATIONS:         • AS - ALL STEEL         • SF - STEEL FRAME         • DT - DUO-TOP         • T&G - TONGUE & GROC         • NIC - NOT IN CONTRAC         • O.C ON CENTER         • TYP - TYPICAL	ICATIONS & NOTES: ELTUBING SHALL BE ASTM A-500 GRADE B-C. NTES,GUSSETS,ETC.) SHALL BE ASTM A-36. DONE IN ACCORDANCE WITH LATEST AWS STANDARDS. E17081 ELECTRODES) IS TO BE ASTM A-325 UNLESS OTHERWISE NOTED. NATED MATERIALS WILL BE IN ACCORDANCE WITH THE A MINATED TIMBER. & GROOVE WILL BE #1 Grade V-GROOVED SYP CONTAINI DCESS el to "Near White" condition to remove all surface rust a t from the blast process in stage 1. the Electrostatic Application of Epoxy TGIC Powder Coating RI applied at 3 mils and has been salt spray tested for 4,00 rs of salt spray testing is only with the Zinc Rich TGIC Po heats the steel and primer to ensure optimal adhesior the Electrostatic application of TGIC Top Powder Coat oxy TGIC Powder Coating Zinc Rich Primer, produces a l at 5,000+ hours using the ASTM Method B117. It is imp ss: The final stage is to allow coated components the t DOFING IS TO BE ACRYLIC COATED GALVALUME® FLUROF IRE-CUT UNLESS NOTED OTHERWISE. METAL ROOFING T R CUTTING IN FIELD. THIS BUILDING HAS BEEN DESIGNED AS A FREE STANDI IS TO ADJOIN ANOTHER STRUCTURE, OR IF OTHER MOD RIOR TO THESE MODIFICATIONS. RE PROVIDED ALL DESIGNS ARE TO BE CONSIDERED TO L CONFORM TO SRPS MANUFACTURING METHODS AND	ALL WELDS ARE TO DEVELOP FULL STREM MERICAN NATIONAL STANDARD ANSI A19 NG 15-20% MOISTURE CONTENT. and oil. ating Zinc Rich Primer. Unlike any other s ch Primer. This stage 3 00 + hours using the ASTM Method B117. ( bwder Coat Primer and before the Stage 5 n with the next stage. at 3 mils. This application, along with total of 6 mils of finished Powder Coating ortant to note that testing was discontinu- ime to cure by cooling down. POLYMER (Kynar 500® PVDF resin-based). A TRIMS WILL COME IN STANDARD SECTIONS NG, OPEN STRUCTURE. IF WALLS ARE TO E IFICATIONS ARE TO BE MADE, THE STRUCT BE AS EQUAL AND NOT AN EXACT MATERIALS AVAILABLE.	NGTH OF 10.1 shelter (Note: 5. g ued at 5,000 ALL METAL S AND WILL BE ADDED, TURE MUST	FOUNDATION NOTE:         All foundation design informations         considered as preliminary on engineer shall be retained to according to local conditions         Final design of the footing/fouresponsibility of the generator         SRP's anaylysis and design we a pier foundation to adaquate All other foundation/masonarequirements by others         MISC. INFORMATION:         • Any unique design requirements by others         MISC. INFORMATION:         • Any unique design requirements by others         misc. INFORMATION:         • Any unique design requirements by others         MISC. INFORMATION:         • Any unique design requirements by others         Burchase of the sealed help to reduce footer reduce footer reduce footer reduce footer reduce footer reduce         • SRP utilizes cylindrical for an industry standard. If a requested or special con SRP will provide spread for seperate fees upon requirements eased drawings of structures.         CONCRETE       CONCRETE         CONCRETER       FROM         OF SHELTER FROM         SHELTER
	SHELTER By SUPERIOR RECREATIONAL PRODUCTS	DESCRIPTION: 16'x30' (AS) Hip End Structure QUOTE #: PROJECT NAME: QUO181204 Hoffman Estates Park District	DATE DRAWN BY 6/4/2019 J.C. SCALE SHEET NOT TO SCALE 5. of 5.	These drawings are for reference only and should not be used as construction details. They show the general character and rough dimensions of the structural features. Exact spans, fasteners, materials, and foundations can be determined by a licensed structural engineer upon request.	SHELTER BY SUPERIOR RECREATIONAL PRODUCTS

![](_page_10_Figure_3.jpeg)

DETAILS

![](_page_11_Figure_0.jpeg)

TOTAL POND  $V_{749.50}$  PROVIDED = 0.6512 AC-FT

544 CU. FT.

OR 0.1171 AC.

OR 0.0624 AC.

509 SQ. FT. OR 0.0117 AC.

747.30

747.00

746.80

5.100 SQ. FT.

2,720 SQ. FT.

1,992 CU. FT. **OR** 

1,154 CU. FT. 1,448 CU. FT. **OR** 

294 CU. FT. 294 CU. FT. OR

0.0457 AC-FT

0.0332 AC-FT

0.0067 AC-FT

PROPOSED SPOT GRADE
INTERPOLATED SPOT GRADE
PROPOSED RIM ELEVATION
EXISTING CONTOUR LINE
PROPOSED CONTOUR LINE
OVERLAND FLOW ARROW
100 YEAR OVERLAND FLOW ROUTE
EMERGENCY OVERFLOW ARROW
TOP OF PAVEMENT ELEVATION
TOP OF SIDEWALK ELEVATION
FINISHED GRADE ELEVATION
MATCH EXISTING ELEVATION
TOP OF CURB ELEVATION
FLOW LINE ELEVATION
ADJUST EXISTING RIM ELEVATION

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EXISTING CLOSED MANHOLE
EXISTING OPEN GRATE MANHOLE
EXISTING BEEHIVE GRATE MANHOLE
EXISTING CURB INLET
EXISTING FIRE HYDRANT
EXISTING VALVE VAULT
EXISTING B-BOX
PROPOSED INLET
PROPOSED OPEN LID CATCH BASIN
PROPOSED CLOSED LID MANHOLE
PROPOSED RESTRICTOR STRUCTURE

$\wedge$	RIM=748.86' (STORM)		
$\overline{}$	96" CONCRETE STRUCTURE		
	INV=745.52' (18" CPP WNW)		
	INV=745.29' (24" RCP NNE)		
	INV=745.40' (15" CPP ESE)		
	INV=744.74' (29" X 45" ELLIPTICAL RC		
$\wedge$	RIM=749.73' (SANITARY)		

- INV=746.69' (8" CLAY N/SSW)
- RIM=752.06' (SANITARY) 48" CONCRETE STRUCTURE INV=740.71' (8" CLAY WNW/NNE/ESE) INV=744.19' (8" CLAY NNE) INV=740.71' (12" CLAY SSW)
- RIM=757.22' (SANITARY) 48" CONCRETE STRUCTURE INV=747.87' (8" CLAY N/S)

![](_page_11_Figure_16.jpeg)

![](_page_11_Figure_17.jpeg)

**C-5.0** 

SITE GRADING

PLAN

![](_page_12_Figure_0.jpeg)

![](_page_12_Figure_3.jpeg)

### HATCH LEGEND

![](_page_12_Figure_5.jpeg)

NEW ASPHALT TRAIL

NEW FULL DEPTH ASPHALT PAVEMENT

NEW ASPHALT PAVEMENT - BASKETBALL COURT

ASPHALT TRAIL RESTORATION

NEW ENGINEERED WOOD FIBER (BY OWNER)

### SITE GRADING NOTES:

- A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHIC SURVEY LAST DATED 1-20-20, PREPARED BY WT GROUP. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- B. ALL PROPOSED GRADES ARE GIVEN TO FINISHED GRADE, I.E. TOP OF PROPOSED ASPHALT, CONCRETE, TOP OF PROPOSED CURB, ETC. SEE DETAILS FOR PAVEMENT THICKNESS.
- C. CONTRACTOR SHALL CONTACT J.U.L.I.E. (811 OR 1-800-892-0123) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
- D. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.
- E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
- F. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- G. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- H. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED. I. ALL HANDICAP ACCESSIBLE ROUTES (SIDEWALKS, WALKWAYS,
- PAVEMENTS, ETC.) SHALL MAINTAIN A MAXIMUM CROSS SLOPE OF 2.00% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%. ACCESSIBLE PARKING STALLS SHALL MAINTAIN A MAXIMUM SLOPE OF 2.00% IN ALL DIRECTIONS. J. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED
- BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.
- K. ALL FIRE ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES.
- L. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR. M. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A
- DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS
- N. ALL EXCESS SOILS THAT CANNOT BE USED AS SUITABLE FILL SHALL BE HAULED FROM THE SITE AND LEGALLY DISPOSED OF. O. CONTRACTOR TO PROVIDE SOIL TESTING SERVICES FOR COMPLETION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S LPC-662 AND/OR LPC-663 FORMS AS PART OF THEIR
- CONTRACT. P. PREPARE SUBGRADE AS SPECIFIED WITHIN THE GEOTECHNICAL
- REPORT DATED NOVEMBER 16, 2020 PREPARED BY SMC, INC. Q. ALL TOPSOIL BENEATH PROPOSED STRUCTURES AND PAVEMENT SHALL BE REMOVED. REFER TO THE GEOTECHNICAL REPORT DATED NOVEMBER 16, 2020 PREPARED BY SMC, INC. FOR EXISTING TOPSOIL DEPTHS.

![](_page_12_Figure_27.jpeg)

# **GRADING LEGEND**

- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE INTERPOLATED SPOT GRADE
- PROPOSED RIM ELEVATION
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- OVERLAND FLOW ARROW
- 100 YEAR OVERLAND FLOW ROUTE
- EMERGENCY OVERFLOW ARROW
- TOP OF PAVEMENT ELEVATION
- TOP OF SIDEWALK ELEVATION
- FINISHED GRADE ELEVATION
- MATCH EXISTING ELEVATION
- TOP OF CURB ELEVATION
- FLOW LINE ELEVATION
- ADJUST EXISTING RIM ELEVATION
- EXISTING CLOSED MANHOLE
- EXISTING OPEN GRATE MANHOLE
- EXISTING BEEHIVE GRATE MANHOLE
- EXISTING CURB INLET
- EXISTING FIRE HYDRANT
- EXISTING VALVE VAULT
- EXISTING B-BOX
- PROPOSED INLET
- PROPOSED OPEN LID CATCH BASIN
- PROPOSED CLOSED LID MANHOLE PROPOSED RESTRICTOR STRUCTURE
- PROPOSED FLARED END SECTION

IORT |" = 3*0*' 00 15 30 60

120

CHECK:CMS

DRAWN:AC

JOB:2001566C

**C-5.1** SITE GRADING

PLAN

![](_page_13_Figure_0.jpeg)

- TOP OF PIPE=753.43' (NNE/SSW) UNABLE TO DETERMINE SIZE AND MATERIAL OF PIPE TOP OF WATER=756.95'

![](_page_13_Figure_21.jpeg)

![](_page_13_Picture_22.jpeg)

### SITE UTILITY NOTES:

- A. CONTRACTOR SHALL CONTACT J.U.L.I.E. (BII OR I-800-892-0123) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
- B. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- C. CONTRACTOR SHALL EXCAVATE AND VERIFY IN FIELD ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- D. REFER TO THE GENERAL NOTES AND SPECIFICATION SHEETS FOR ALL PIPE MATERIAL AND JOINT SPECIFICATIONS.
- E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
- CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, MATERIAL, INVERT, PIPE ROUTING, AND SLOPE OF ALL EXISTING UTILITIES AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION.
- G. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF UTILITY TRENCHES DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING AND BRACING AS NECESSARY TO MAINTAIN STABILITY UNTIL CONSTRUCTION OF THE UTILITY IS COMPLETE IN ORDER TO MEET OSHA AND LOCAL CODES, AS WELL AS MANUFACTURER'S REQUIREMENTS.
- H. ALL RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-443 AND SECTION 31-1.08 OF THE "STANDARD SPECIFICATIONS".
- TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY (ASTM D-1557) OVER ALL UNDERGROUND UTILITIES WHICH ARE CONSTRUCTED UNDER OR WITHIN 2 FEET OF ANY PROPOSED OR EXISTING PAVEMENT OR SIDEWALKS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- J. ADJUST RIM ELEVATIONS OF EXISTING STRUCTURES IN PAVEMENT AS NECESSARY TO MEET PROPOSED FINISHED GRADE. K. CONTRACTOR TO COORDINATE ALL CONNECTIONS TO CITY
- UTILITIES AND STORM SEWERS WITH THE PUBLIC WORKS
- L. CONTRACTOR TO USE CAUTION WHEN EXCAVATING AT EXISTING UTILITY LINES. M. ALL STORM MANHOLES SHALL HAVE OPEN LIDS UNLESS
- OTHERWISE SPECIFIED. N. ALL EXISTING UTILITIES TO BE ABANDONED IN PLACE SHALL BE CAPPED WITH 2' LONG (MIN.) NON-SHRINK CONCRETE MORTAR

### ○ STORM SEWER

- EXISTING STORM STRUCTURE TO REMAIN. EXISTING STORM SEWER TO REMAIN.
- CONTRACTOR SHALL TRACE AND FIELD VERIFY LOCATION OF EXISTING STORM SEWER PRIOR TO
- EXISTING FLARED END SECTION TO REMAIN. EXISTING STORM STRUCTURE TO REMAIN. INSTALL NEW BOLT DOWN, WATER TIGHT NEENAH R-1916-D FRAME AND COVER. BURY RIM BELOW GRADE.
- 6. EXISTING STORM SEWER / UNDERDRAIN PER RECORDS DOCUMENTS TO REMAIN. OWNER TO VERIFY LOCATION IN FIELD PRIOR TO LOCATION. 7. EXISTING STORM STRUCTURE TO REMAIN. CORE DRILL
- AND CONNECT NEW STORM SEWER TO EXISTING STRUCTURE WITH ALL FITTINGS REQUIRED.
  NEW 12" RCP, 85 L.F. @ 0.41% SLOPE.
  NEW 72" DIA. PRECAST CONCRETE OUTLET CONTROL

- I. NEW 12 DIA: THEORET CONCLETE CONTROL
  STRUCTURE. (SEE DETAIL ON SHEET C-6.2)
  IO. NEW 12" HDPE, 40 L.F. @ 0.38% SLOPE.
  II. NEW 24" DIA. PRECAST CONCRETE INLET WITH NEENAH R-4340-A FRAME AND GRATE.
  II. NEW 24" DIA. FRAME AND GRATE.
- 12. NEW 4" PERFORATED HDPE, 125 L.F. @ O.O% SLOPE.
- NEW OBSERVATION WELL.
- 14. NEW 12" FLARED END SECTION WITH TRASH GRATE.
  15. NEW 12" RCP, 75 L.F. @ 0.58% SLOPE.
  16. NEW 24" DIA. PRECAST CONCRETE CATCH BASIN WITH
- 17. NEW 12" FLARED END SECTION WITH TRASH GRATE.
- 18. NEW 12" RCP, 70 L.F. @ 0.57% SLOPE. 19. NEW 24" DIA. PRECAST CONCRETE CATCH BASIN WITH OPEN GRATE. 20.NEW 12" FLARED END SECTION.
- 21. NEW 8" PVC SDR 26, 40 L.F. @ 2.12% SLOPE. 22. NEW 24" DIA. PRECAST CONCRETE INLET WITH SOLID LID. CONNECT EXISTING 8" PVC TO NEW INLET WITH ALL
- 23. EXISTING STORM SEWER TO BE ABANDONED. PLUG UPSTREAM AND DOWNSTREAM ENDS WITH 2' NON-SHRINK HYDRAULIC GROUT.

### 

EXISTING SANITARY STRUCTURE TO REMAIN. 2. EXISTING SANITARY SEWER TO REMAIN.

EXISTING HYDRANT TO REMAIN.

### ─ <u>MISC. UTILITY</u>

- I. EXISTING UTILITY POLE TO REMAIN.
- 2. EXISTING OVERHEAD LINES TO REMAIN. 3. EXISTING AREA LIGHT TO REMAIN.

![](_page_13_Picture_60.jpeg)

![](_page_13_Picture_61.jpeg)

![](_page_13_Picture_62.jpeg)

120

**C-6.0** SITE UTILITY PLAN

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

![](_page_14_Picture_2.jpeg)

# EXISTING UTILITY DATA

RIM=759.49' (SANITARY) 48" CONCRETE STRUCTURE INV=752.34' (8" CLAY N/SSW)

# UTILITY LEGEND

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### **STORM SEWER**

۱.	EXISTING STORM STRUCTURE TO REM
2.	EXISTING STORM SEWER TO REMAIN.
3.	CONTRACTOR SHALL TRACE AND FIE
	LOCATION OF EXISTING STORM SEWE

- CONSTRUCTION.
- EXISTING FLARED END SECTION TO REMAIN.
   EXISTING STORM STRUCTURE TO REMAIN. INSTALL NEW BOLT DOWN, WATER TIGHT NEENAH R-1916-D FRAME AND COVER. BURY RIM BELOW GRADE.
- 6. EXISTING STORM SEWER / UNDERDRAIN PER RECORDS DOCUMENTS TO REMAIN. OWNER TO VERIFY LOCATION IN
- DOCUMENTS TO REMAIN. OWNER TO VERIFY LOCATION I FIELD PRIOR TO LOCATION.
   EXISTING STORM STRUCTURE TO REMAIN. CORE DRILL AND CONNECT NEW STORM SEWER TO EXISTING STRUCTURE WITH ALL FITTINGS REQUIRED.
   NEW 12" RCP, 85 L.F. @ 0.41% SLOPE.
   NEW 12" DIA. PRECAST CONCRETE OUTLET CONTROL
- I. NEW 12 DIA: TRECAST CONCRETE COTELL CONTROL STRUCTURE. (SEE DETAIL ON SHEET C-6.2)
  IO. NEW 12" HDPE, 40 L.F. O 0.38% SLOPE.
  II. NEW 24" DIA. PRECAST CONCRETE INLET WITH NEENAH R-4340-A FRAME AND GRATE.
- 12. NEW 4" PERFORATED HDPE, 125 L.F. @ 0.0% SLOPE.
  13. NEW OBSERVATION WELL.
  14. NEW 12" FLARED END SECTION WITH TRASH GRATE. 15. NEW 12" RCP, 75 L.F. @ 0.58% SLOPE.
- 16. NEW 24" DIA. PRECAST CONCRETE CATCH BASIN WITH OPEN GRATE.
- IT. NEW 12" FLARED END SECTION WITH TRASH GRATE.
  IB. NEW 12" RCP, TO L.F. @ 0.57% SLOPE.
  I9. NEW 24" DIA. PRECAST CONCRETE CATCH BASIN WITH OPEN GRATE.
- 20. NEW 12" FLARED END SECTION. 21. NEW 8" PVC SDR 26, 40 L.F. @ 2.12% SLOPE. 22. NEW 24" DIA. PRECAST CONCRETE INLET WITH SOLID LID. CONNECT EXISTING 8" PVC TO NEW INLET WITH ALL EITTINGS PEQUIPED FITTINGS REQUIRED. 23. EXISTING STORM SEWER TO BE ABANDONED. PLUG
- UPSTREAM AND DOWNSTREAM ENDS WITH 2' NON-SHRINK HYDRAULIC GROUT.

# $\bigcirc$ SANITARY

I. EXISTING SANITARY STRUCTURE TO REMAIN. 2. EXISTING SANITARY SEWER TO REMAIN.

# WATER

I. EXISTING HYDRANT TO REMAIN. 2. EXISTING WATER MAIN TO REMAIN.

# **MISC. UTILITY**

EXISTING UTILITY POLE TO REMAIN. 2. EXISTING OVERHEAD LINES TO REMAIN. 3. EXISTING AREA LIGHT TO REMAIN.

#### STORM SEWER

- ED STORM SEWER
- SANITARY SEWER
- WATER MAIN
- OVERHEAD LINES
- ED RIM ELEVATION
- ED INVERT ELEVATION
- EXISTING RIM ELEVATION
- CLOSED MANHOLE
- OPEN GRATE MANHOLE
- BEEHIVE GRATE MANHOLE
- CURB INLET
- FIRE HYDRANT
- VALVE VAULT
- B-BOX
- ED INLET
- ED OPEN LID CATCH BASIN
- ED CLOSED LID MANHOLE
- ED RESTRICTOR STRUCTURE
- ED FLARED END SECTION

# 1AIN.

. IELD VERIFY ER PRIOR TO

![](_page_14_Picture_60.jpeg)

### SITE UTILITY NOTES:

- A. CONTRACTOR SHALL CONTACT J.U.L.I.E. (BII OR I-800-892-0123) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC,
- GAS, TELEPHONE, ETC. LINES ARE UNKNOWN. B. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- C. CONTRACTOR SHALL EXCAVATE AND VERIFY IN FIELD ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO ANY UNDERGROUND CONSTRUCTION, CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- D. REFER TO THE GENERAL NOTES AND SPECIFICATION SHEETS FOR ALL PIPE MATERIAL AND JOINT SPECIFICATIONS. E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE
- OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER. F. CONTRACTOR SHALL VERIFY IN FIELD EXACT SIZE, MATERIAL, INVERT, PIPE ROUTING, AND SLOPE OF ALL EXISTING UTILITIES
- AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. G. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF UTILITY TRENCHES DURING CONSTRUCTION AND SHALL PROVIDE
- TEMPORARY SHORING AND BRACING AS NECESSARY TO MAINTAIN STABILITY UNTIL CONSTRUCTION OF THE UTILITY IS COMPLETE IN ORDER TO MEET OSHA AND LOCAL CODES, AS WELL AS MANUFACTURER'S REQUIREMENTS.
- H. ALL RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-443 AND SECTION 31-1.08 OF THE "STANDARD SPECIFICATIONS".
- TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY (ASTM D-1557) OVER ALL UNDERGROUND UTILITIES WHICH ARE CONSTRUCTED UNDER OR WITHIN 2 FEET OF ANY PROPOSED OR EXISTING PAVEMENT OR SIDEWALKS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- J. ADJUST RIM ELEVATIONS OF EXISTING STRUCTURES IN PAVEMENT AS NECESSARY TO MEET PROPOSED FINISHED GRADE.
- K. CONTRACTOR TO COORDINATE ALL CONNECTIONS TO CITY UTILITIES AND STORM SEWERS WITH THE PUBLIC WORKS DEPARTMENT
- L. CONTRACTOR TO USE CAUTION WHEN EXCAVATING AT EXISTING UTILITY LINES. M. ALL STORM MANHOLES SHALL HAVE OPEN LIDS UNLESS
- OTHERWISE SPECIFIED. N. ALL EXISTING UTILITIES TO BE ABANDONED IN PLACE SHALL BE CAPPED WITH 2' LONG (MIN.) NON-SHRINK CONCRETE MORTAR PLUGS AT BOTH ENDS.

![](_page_14_Picture_75.jpeg)

![](_page_14_Figure_76.jpeg)

![](_page_14_Picture_77.jpeg)

![](_page_14_Picture_78.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_16_Figure_0.jpeg)

![](_page_16_Figure_1.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_17_Picture_8.jpeg)

#### **SWPPP NOTES:**

- A. ALL DISTURBED GREEN SPACES ON THE SITE SHALL BE RESTORED ACCORDING TO THE SEED BED PREPARATION
- SPECIFICATIONS BELOW AND BLANKETED OR MATTED AS SHOWN ON THE PLANS. B. TEMPORARY OR PERMANENT STABILIZATION SHALL OCCUR
- IMMEDIATELY WHENEVER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE, TEMPORARY STABILIZATION SHALL CONSIST OF THE INSTALLATION OF TEMPORARY SEEDING. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION
- ENTRANCES AS NECESSARY TO EXCAVATE AREAS AND HAUL SOILS ON-SITE. TRACKING OF DEBRIS ON SITE WILL NOT BE TOLERATED. ANY DEBRIS LEFT OUTSIDE OF THE PROJECT LIMITS MUST BE CLEANED IMMEDIATELY.
- EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS SHALL BE INSTALLED USING 6" <u>BIO-STAKES</u> AS MANUFACTURED BY NORTH AMERICAN GREEN. METAL STAKES AND STAPLES ARE PROHIBITED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY MAINTENANCE FOR THE SEDIMENT AND EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTIONS, INSPECTION REPORTS, CORRECTIVE ACTION FORMS, SWPPP AMENDMENT LOGS, SUBCONTRACTOR
- CERTIFICATIONS/AGREEMENTS, GRADING AND STABILIZATION ACTIVITIES LOGS, SWPPP TRAINING LOGS, AND DELEGATION OF AUTHORITY FORMS FOR THE DURATION OF THE PROJECT. 5. CONTRACTOR SHALL PROVIDE COPIES OF ALL SWPPP REPORTS, FORMS, AND LOGS TO THE WT GROUP ONCE THE SITE HAS BEEN
- STABILIZED. THE CONTRACTOR SHALL MAINTAIN THESE DOCUMENTS FOR A PERIOD OF 3 YEARS FROM THE FINAL STABILIZATION OF THE SITE.
- H. FOLLOWING THE REMOVAL OF THE SILT FENCE, THE CONTRACTOR SHALL RESTORE THE THE SILT FENCE TRENCH WITH SOD. CONTRACTOR SHALL INITIATE STABILIZATION OF ALL DISTURBED AREAS WITHIN ONE CALENDAR DAY. SEED BED PREPARATION:
- J.A. ALL STONES, ROCKS, DEBRIS LARGER THAN I" IN DIAMETER SHALL BE REMOVED.
- J.B. DISK OR TILL TOPSOIL TO A DEPTH OF 3" AND REDUCE ALL SOIL PARTICLES TO NO LARGER THAN 2". THE SURFACE SHALL BE FREE OF WEEDS, STONES, ROCKS, STICKS, GULLIES, CLODS, AND DEBRIS. THE AREA SHALL BE FINE GRADED. J.C.
- THE SEED SHALL BE PLACED INTO THE SOIL WITH A MACHINE J.D. THAT MECHANICALLY PLACES THE SEED IN DIRECT CONTACT WITH THE SOIL AND COVERS THE SEED WITH THE SOIL. BROADCAST AND HYDROSEED WILL NOT BE ALLOWED. J.E.
- SEEDED AREAS SHALL BE COVERED WITH THE EROSION BLANKET RIGHT AFTER THE SEED HAS BEEN SOWN. J.G. ANY SOIL AMENDMENTS NEEDED TO ACHIEVE A 90% HEALTHY STAND OF VEGETATION WILL BE ADDED TO THE SOIL AT NO EXTRA CHARGE TO THE OWNER. THE STAND OF VEGETATION WILL NEED TO BE ACCEPTED BY THE ENGINEER.
- J.H. THE SEED MIX SHALL BE KENTUCKY BLUEGRASS 130LBS/ACRE. (PROVIDED AND INSTALLED BY OWNER) C. CONTRACTOR TO INSTALL TEMPORARY SEEDING AND EROSION
- CONTROL BLANKETS AS NECESSARY TO STABILIZE DISTURBED AREAS AND SOIL STOCKPILES. OWNER TO INSTALL FINAL SEEDING, BLANKETS AND LANDSCAPING WITHIN THREE DAYS OF FINAL DISTURBANCE.
- L. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" TOPSOIL IN DISTURBED AND PROPOSED LAWN / LANDSCAPE AREAS. SEE SWPP NOTE "J" FOR TOPSOIL PREPARATION.

*00* 15 30

![](_page_17_Picture_27.jpeg)

![](_page_17_Picture_28.jpeg)

DRAWN:AC JOB:2001566C

CHECK:CMS

**C-7.0** STORM WATER POLLUTION PREVENTION PLAN

![](_page_18_Picture_0.jpeg)

## SWPPP LEGEND

+000.00 EXISTING SPOT GRADE EXISTING CONTOUR LINE \_\_\_\_\_ \_\_\_\_000\_\_\_ PROPOSED CONTOUR LINE OVERLAND FLOW ARROW  $\longrightarrow$ 100 YEAR OVERLAND FLOW ROUTE EMERGENCY OVERFLOW ARROW ADJUST EXISTING RIM ELEVATION ADJUST 0 EXISTING CLOSED MANHOLE EXISTING OPEN GRATE MANHOLE EXISTING BEEHIVE GRATE MANHOLE EXISTING CURB INLET EXISTING FIRE HYDRANT EXISTING VALVE VAULT EXISTING B-BOX TREE PROTECTION SILT FENCE 

 $\oslash$ 

PROVIDE 6" TOPSOIL, FINE GRADE, AND SEED

RIP RAP

#### STREAMBANK STABILIZATION SEED MIX GENESIS NURSERY, INC. TAMPICO, IL

FLEXSTORM CATCH-IT INLET PROTECTION

FOLLOW MANUFACTURER'S INSTALLATION

TEMPORARY CONCRETE WASHOUT FACILITY

INSTRUCTIONS. SEE SWPP NOTE K AND L.

STABILIZED CONSTRUCTION ENTRANCE

SILT FENCE INLET PROTECTION WITH STONE COLLAR

FINE GRADE, FERTILIZE, AND SEED. INSTALL DS75

EROSION CONTROL BLANKET WITH 6" BIO-STAKES

AS MANUFACTURED BY NORTH AMERICAN GREEN.

ILLINOIS PERMIT #3669

Species Alisma subcordatum Water Plantain Andropogon gerardii Big Bluestem Andropogon scoparius (Schizachyrium Aster novae-angliae (Symphyotrichum r Bouteloua curtipendula Side Oats Gram Carex vulpinoidea Fox Sedge Elcocharis spp Spike Rush Elymus canadensis Canadian Wild Rye Elymus villosus Silkey Wild Rye Elymus virginicus Virginia Wild Rye Glyceria striata Fowl Manna Grass Helenium autumnale Sneezeweed Juncus spp Rush Species Leersia oryzoides Rice Cut Grass Panicum virgatum Switch Grass Scirpus validus (Schoenoplectus taberr Sorghastrum nutans Indian Grass Spartina pectinata Prairie Cord Grass Agrostis alba Red Top Grass Avena sativa Seed Oats Lolium multiflorum Annual Rye

![](_page_18_Picture_11.jpeg)

### **SWPPP NOTES:**

- A. ALL DISTURBED GREEN SPACES ON THE SITE SHALL BE RESTORED ACCORDING TO THE SEED BED PREPARATION SPECIFICATIONS BELOW AND BLANKETED OR MATTED AS SHOWN ON THE PLANS.
- B. TEMPORARY OR PERMANENT STABILIZATION SHALL OCCUR IMMEDIATELY WHENEVER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE. TEMPORARY STABILIZATION SHALL CONSIST OF THE INSTALLATION OF TEMPORARY SEEDING.
- C. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION ENTRANCES AS NECESSARY TO EXCAVATE AREAS AND HAUL SOILS ON-SITE. TRACKING OF DEBRIS ON SITE WILL NOT BE TOLERATED. ANY DEBRIS LEFT OUTSIDE OF THE PROJECT LIMITS MUST BE CLEANED IMMEDIATELY
- D. EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS SHALL BE INSTALLED USING 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN. METAL STAKES AND STAPLES ARE PROHIBITED.
- E. CONTRACTOR SHALL PROVIDE ALL NECESSARY MAINTENANCE FOR THE SEDIMENT AND EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT.
- F. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTIONS, INSPECTION REPORTS, CORRECTIVE ACTION FORMS, SWPPP AMENDMENT LOGS, SUBCONTRACTOR CERTIFICATIONS/AGREEMENTS, GRADING AND STABILIZATION
- ACTIVITIES LOGS, SWPPP TRAINING LOGS, AND DELEGATION OF AUTHORITY FORMS FOR THE DURATION OF THE PROJECT. G. CONTRACTOR SHALL PROVIDE COPIES OF ALL SWPPP REPORTS, FORMS, AND LOGS TO THE WT GROUP ONCE THE SITE HAS BEEN STABILIZED. THE CONTRACTOR SHALL MAINTAIN THESE DOCUMENTS FOR A PERIOD OF 3 YEARS FROM THE FINAL
- STABILIZATION OF THE SITE. H. FOLLOWING THE REMOVAL OF THE SILT FENCE, THE CONTRACTOR SHALL RESTORE THE THE SILT FENCE TRENCH WITH SOD. CONTRACTOR SHALL INITIATE STABILIZATION OF ALL DISTURBED AREAS WITHIN ONE CALENDAR DAY.
- J. SEED BED PREPARATION: J.A. ALL STONES, ROCKS, DEBRIS LARGER THAN I" IN DIAMETER
- SHALL BE REMOVED. J.B. DISK OR TILL TOPSOIL TO A DEPTH OF 3" AND REDUCE ALL SOIL PARTICLES TO NO LARGER THAN 2". THE SURFACE SHALL BE FREE OF WEEDS, STONES, ROCKS, STICKS, GULLIES, CLODS, AND DEBRIS. J.C. THE AREA SHALL BE FINE GRADED.
- J.D. THE SEED SHALL BE PLACED INTO THE SOIL WITH A MACHINE THAT MECHANICALLY PLACES THE SEED IN DIRECT CONTACT WITH THE SOIL AND COVERS THE SEED WITH THE SOIL. J.E. BROADCAST AND HYDROSEED WILL NOT BE ALLOWED.
- J.F. SEEDED AREAS SHALL BE COVERED WITH THE EROSION BLANKET RIGHT AFTER THE SEED HAS BEEN SOWN. J.G. ANY SOIL AMENDMENTS NEEDED TO ACHIEVE A 90% HEALTHY
- STAND OF VEGETATION WILL BE ADDED TO THE SOIL AT NO EXTRA CHARGE TO THE OWNER. THE STAND OF VEGETATION WILL NEED TO BE ACCEPTED BY THE ENGINEER. J.H. THE SEED MIX SHALL BE KENTUCKY BLUEGRASS
- 130LBS/ACRE. (PROVIDED AND INSTALLED BY OWNER) K. CONTRACTOR TO INSTALL TEMPORARY SEEDING AND EROSION CONTROL BLANKETS AS NECESSARY TO STABILIZE DISTURBED AREAS AND SOIL STOCKPILES. OWNER TO INSTALL FINAL SEEDING, BLANKETS AND LANDSCAPING WITHIN THREE DAYS OF
- FINAL DISTURBANCE. . CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" TOPSOIL IN DISTURBED AND PROPOSED LAWN / LANDSCAPE AREAS. SEE SWPP NOTE "J" FOR TOPSOIL PREPARATION.

![](_page_18_Picture_28.jpeg)

EROSION CONTROL BLANKET WITH 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE SWPP NOTE K AND L.

	lb./acre
	0.250
	5.000
s.) Little Bluestem	5.000
n.) New England Aster	0.125
ima	5.000
	0.500
	0.125
	8.000
	4.000
	8.000
	1.000
	0.125
	0.125
	1.000
	1.000
aemontani) Great Bulrush	0.125
	10.000
	0.500
	1.000
	20
	5.000
Total	75.875
Permanent matrix	49.875
	I

![](_page_18_Picture_31.jpeg)

![](_page_18_Figure_32.jpeg)

CHECK:CMS

DRAWN:AC

JOB:2001566C

**C-7.1** STORM WATER POLLUTION PREVENTION PLAN

![](_page_19_Figure_0.jpeg)

#### **GENERAL NOTES**

I. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:

- ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION.
- I.2. "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" LATEST EDITION.
- I.3. "ILLINOIS URBAN MANUAL," LATEST EDITION.
- I.4. BUILDING CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES.
- UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND 1.5 HEALTH ADMINISTRATION (OSHA) REGULATIONS, 29 CFR PART 1926, "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION."
- I.6. ILLINOIS DRAINAGE LAW.
- I.T. ILLINOIS ENVIRONMENTAL BARRIERS ACT.
- I.8. ILLINOIS ACCESSIBILITY CODE.
- I.9. ILLINOIS ENVIRONMENTAL PROTECTION AGENCY REQUIREMENTS
- I.IO. TITLE 35 OF THE ILLINOIS ADMINISTRATIVE CODE.
- 2. ALL REQUIRED PERMITS FROM THE APPROPRIATE GOVERNING AGENCY(S) SHALL BE OBTAINED FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHEETING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE ALL NECESSARY REPAIRS AT HIS EXPENSE AND TO THE SATISFACTION OF THE GOVERNING AGENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNAGE AND TRAFFIC CONTROL DEVICES TO INFORM AND PROTECT THE PUBLIC.
- 3. CONTRACTOR SHALL NOTIFY THE LOCAL ENGINEERING OR PUBLIC WORKS DEPARTMENT AND/OR OTHER GOVERNING AUTHORITY(S) 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ON EACH MAJOR CATEGORY OF WORK, INCLUDING BUT NOT LIMITED TO, ANY PUBLIC IMPROVEMENTS, ROADWAY CLOSURES OR UTILITY INSTALLATIONS. 72 HOUR NOTICE SHALL BE GIVEN FOR ANY WORK ITEM THAT REQUIRES INSPECTION AND TESTING SUCH AS SANITARY SEWER OR WATER MAIN INSTALLATION.
- 4. BEING THAT THIS PROJECT IS PERMITTED UNDER THE NEW WATERSHED MANAGEMENT ORDINANCE (WMO), THE MWRD REQUIRES 48 HOURS OF ADVANCE NOTIFICATION PRIOR TO ANY GROUND DISTURBANCE. THE MWRD WILL BE INSPECTING FOR APPLICABLE EROSION CONTROL AND SEDIMENT CONTROL MEASURES SUCH AS SILT FENCING, INLET PROTECTION, CONCRETE WASH, ETC., FOLLOWED BY SANITARY SEWER AND VOLUME CONTROL INSTALLATION INSPECTIONS. PLEASE REFER TO THE APPROVED PERMIT/PLANS AND HAVE THESE MEASURES IN PLACE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 5. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, CABLE, ETC.) AND THE LOCAL MUNICIPALITY TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO AVOID POTENTIAL CONFLICTS. CONTRACTOR SHALL CALL THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (J.U.L.I.E.) AT I-800-892-0123 OR BY DIALING 811. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER INDICATED ON THE PLANS OR NOT AND TO HAVE THESE UTILITIES STAKED PRIOR TO CONSTRUCTION.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER.
- 7. ALL EASEMENTS FOR EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS PREPARED BY THE ENGINEER ACCORDING TO INFORMATION AVAILABLE FROM PUBLIC RECORDS OR VISIBLE FIELD MARKINGS. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND FOR THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SO THE CONFLICT MAY BE RESOLVED.
- 8. ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS AND TO THE SATISFACTION OF THE APPLICABLE UTILITY OWNER(S).
- 9. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED.
- IO. ALL PROPERTY MARKERS AND REFERENCE MARKERS SHALL BE CAREFULLY PRESERVED DURING CONSTRUCTION UNTIL THEIR LOCATION HAS BEEN WITNESSED OR OTHERWISE TIED IN BY AN AUTHORIZED AGENT OR PROFESSIONALLY LICENSED SURVEYOR.
- II. THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS SHALL BE PROVIDED WHERE CONSTRUCTION OPERATIONS ABUT PUBLIC THROUGH-FARES AND ADJACENT PROPERTY.
- 12. ALL AREAS DISTURBED BY THE GENERAL CONTRACTOR OR SUB-CONTRACTORS SHALL BE RETURNED TO THE ORIGINAL CONDITIONS OR BETTER, EXCEPT WHERE PROPOSED CONSTRUCTION IS INDICATED ON THE PLANS.
- 13. NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.
- 14. PRIOR TO INITIAL ACCEPTANCE BY THE OWNER(S) AND/OR GOVERNING AUTHORITY, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER AND MUNICIPALITY ENGINEER OR HIS REPRESENTATIVE(S). THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF 18 (EIGHTEEN) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL BE HELD RESPONSIBLE FOR ANY DEFECTS IN MATERIAL OR WORKMANSHIP OF THIS WORK DURING THAT PERIOD AND UNTIL FINAL ACCEPTANCE IS MADE.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE WORKING CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 16. CONTRACTOR SHALL KEEP THE PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, CLEAN PAVEMENTS AT THE END OF EACH WORKING DAY.
- 17. ALL CONSTRUCTION STAKING, SCHEDULING AND PAYMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 18. THREE (3) ORIGINAL COPIES OF ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR (BUT NOT LIMITED TO) THE FOLLOWING ITEMS: 18.1. ASPHALT PAVEMENT MIX DESIGN
- 18.2. CONCRETE MIX DESIGN

VAULTS, ETC.)

- 18.3. GRANULAR MATERIAL GRADATION
- 18.4. PRECAST CONCRETE STRUCTURES (MANHOLES, INLETS, CATCH BASINS,
- 18.5. WATER MAIN MATERIALS (VALVES, FIRE HYDRANTS, ETC.)

- 19. AFTER COMPLETION OF THE PROPOSED IMPROVEMENTS AND WHEN REQUIRED BY THE GOVERNING AUTHORITY(S), CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH AS-BUILT AND/OR RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONALLY LICENSED ENGINEER OR SURVEYOR AND SHALL INCLUDE AT A MINIMUM (WHERE APPLICABLE TO THE SCOPE OF WORK) THE FOLLOWING ITEMS:
- 19.1 TOPOGRAPHY AND SPOT GRADE ELEVATIONS OF ALL PROPOSED PERMANENT SITE FEATURES INCLUDING ANY STORM WATER FACILITIES OR MODIFICATIONS TO EXISTING STORM WATER FACILITIES.
- 19.2 HORIZONTAL AND VERTICAL LOCATION AND ALIGNMENT OF ALL PROPOSED ROADWAYS, PARKING LOTS, UTILITIES, BUILDINGS OR OTHER PERMANENT SITE FEATURES.
- 19.3 RIM AND INVERT AND/OR TOP OF PIPE ELEVATIONS FOR ALL PROPOSED UTILITIES.
- 19.4 AS-BUILT AND/OR RECORD DRAWING INFORMATION SHALL BE SHOWN ON THE APPROVED ENGINEERING PLANS ISSUED FOR CONSTRUCTION. ANY AND ALL DEVIATIONS FROM THESE APPROVED PLANS SHALL BE SHOWN BY MEANS OF STRIKING THROUGH THE PROPOSED INFORMATION AND CLEARLY INDICATING THE AS-BUILT LOCATIONS AND ELEVATIONS ON THE APPLICABLE PLAN SHEET

#### SITE GRADING AND PAVING

- ALL SITE WORK, GRADING, AND PAVING OPERATIONS WITHIN THE LIMITS OF THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." LATEST EDITION ("STANDARD SPECIFICATIONS"). ANY SPECIAL PROVISIONS, THE NOTES IN THE PLANS AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING AND STOCKPILING TOPSOIL REMOVING UNSUITABLE MATERIALS, CONSTRUCTION OF EMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF SECTION 200 OF THE "STANDARD SPECIFICATIONS." ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE OR AS DIRECTED BY THE PROJECT REPRESENTATIVE IN THE FIELD.
- 3. EXCAVATED TOPSOIL SHALL BE STOCKPILED ON THE SITE IN AREAS DESIGNATED BY THE PROJECT ENGINEER UNTIL SUCH TIME THAT THIS TOPSOIL CAN BE USED FOR FINAL GRADING. UNLESS OTHERWISE NOTED ON THE PLANS, A MINIMUM OF 6" TOPSOIL RE-SPREAD AND SEEDING FOR ALL DISTURBED AREAS IS REQUIRED.
- 4. THE SOILS INVESTIGATION REPORT FOR THE SITE AND ALL ADDENDA THERETO ARE SUPPORTING DOCUMENTS FOR THIS PROJECT. THE RECOMMENDATIONS AS STATED IN SAID REPORT ARE HEREBY INCORPORATED INTO THESE CONSTRUCTION NOTES BY REFERENCE AND SHALL BE FOLLOWED BY ALL CONTRACTORS. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY A SOILS ENGINEER OR HIS REPRESENTATIVE. FURTHER CONSTRUCTION OPERATIONS WILL NOT BE PERMITTED UNTIL THE SOILS ENGINEER ISSUES A WRITTEN STATEMENT THAT THE AREA IN QUESTION HAS BEEN SATISFACTORILY PREPARED AND IS READY FOR CONSTRUCTION.
- 5. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE SOIL REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE CONTRACTOR
- 6. THE CONTRACTOR SHALL USE CARE IN GRADING NEAR TREES, SHRUBS, AND BUSHES WHICH ARE NOT NOTED TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS.
- 7. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT HIS OWN EXPENSE.
- 8. REMOVED DRIVEWAY PAVEMENT, SIDEWALK, CURBS, TREES AND STUMPS SHALL BE DISPOSED OF LEGALLY OFF-SITE AT LOCATIONS DETERMINED BY THE CONTRACTOR.
- 9. ON AND OFF SITE PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY TO MEET STATE AND LOCAL STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
- IO. PROPOSED ELEVATIONS INDICATE FINISHED GRADE CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THE THICKNESS OF THE PROPOSED PAVING (ROADS, WALKS, DRIVE, ETC.) SECTION OR TOPSOIL AS INDICATED ON THE PLANS.
- II. CONTRACTOR SHALL PROVIDE SMOOTH VERTICAL CURVES THROUGH THE HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS ON THE PLANS. CONTRACTOR SHALL PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES AND AVOID ANY RIDGES AND/OR DEPRESSIONS.
- 12. ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, WALKS, ETC. SHALL MATCH EXISTING GRADES FLUSH.
- 13. ALL EXISTING AND PROPOSED TOP OF FRAME ELEVATIONS FOR STORM, SANITARY, WATER AND OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED GRADE WITHIN THE PROJECT LIMITS.
- 14. ALL CONCRETE POURED SHALL BE:

14.1. MINIMUM COMPRESSIVE STRENGTH: 14.1.1. 3,500 P.S.I. AT 14 DAYS (PER 1.D.O.T.)

14.1.2. 4,500 P.S.I. AT 28 DAYS (PER A.C.I.)

- 14.2. MAX WATER-CEMENTITIOUS MATERIALS RATIO: 0.44 (AIR-ENTRAINED)
- 14.3. AIR CONTENT: 6%, +/- 1.5% AT POINT OF DELIVERY FOR EXPOSED CONCRETE
- 15. WHEN FIBER MESH REINFORCEMENT IS SPECIFIED, IT SHALL CONSIST OF FIBRIIIATED POLYPROPYLENE FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE PAVEMENT, COMPLYING WITH ASTM C 1116, TYPE 111, ½ TO ⅔ INCHES LONG. FIBERS SHALL BE UNIFORMLY DISPERSED IN THE CONCRETE MIXTURE AT THE MANUFACTURER'S RECOMMENDED RATE, BUT NOT LESS THAN 1.5 LBS / CU. YD.
- 16. THE GRADING AND CONSTRUCTION OF THE PROPOSED PAVEMENT IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE AND MATCH EXISTING GRADES FLUSH.
- 17. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.
- 18. DRIVEWAYS SHALL BE CONSTRUCTED SO AS NOT TO IMPEDE THE SURFACE DRAINAGE SYSTEM.
- 19. TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARDS AND SHALL BE INSTALLED AND PROVIDED WHENEVER CONSTRUCTION FOR UTILITIES ARE WITHIN STREET AREAS. APPLICABLE ORDINANCES OF THE MUNICIPALITY, COUNTY OR STATE SHALL ALSO GOVERN THE TRAFFIC CONTROL REQUIREMENTS.

#### **STORM SEWERS**

- ALL STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," LATEST EDITION ("STANDARD SPECIFICATIONS"), THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION ("IDOT STANDARD SPECIFICATIONS"), ANY SPECIAL PROVISIONS, THE NOTES ON THE PLANS, AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. ALL STORM SEWER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH DIVISION V OF THE "STANDARD SPECIFICATIONS" AND DIVISIONS 500 AND 600 OF THE "IDOT STANDARD SPECIFICATIONS."
- 3. ALL PRECAST CONCRETE STRUCTURES SHALL BE REINFORCED AND DESIGNED FOR HS-20 LOADING UNLESS OTHERWISE NOTED.
- 4. ALL RCP STORM SEWER PIPE 12" IN DIAMETER AND LARGER SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-443 AND SECTION 3I-1.08 OF THE "STANDARD SPECIFICATIONS." ALL IO" DIAMETER RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS V.
- 5. ALL HOPE STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE PER ASTM F-2306 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D-3212.
- 6. ALL PVC STORM SEWER PIPE SHALL BE POLYVINYL CHLORIDE SDR 26 PIPE PER ASTM D-3034 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D-3212, UNLESS OTHERWISE NOTED.
- ALL STORM SEWER TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF DIVISION II OF THE "STANDARD SPECIFICATIONS."
- ALL STORM SEWERS MUST BE PLACED ON PROPERLY COMPACTED STONE 7.1. BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE AND FOR PVC PIPE, MATERIAL SHALL BE EXTENDED A MINIMUM OF 12" OVER THE TOP OF THE PIPE PER ASTM D-2321. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING IDOT GRADATION CA-7, CA-11 OR CA-13.
- 1.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY, PER ASTM D-1557, OVER ALL STORM SEWERS WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
- 8. ALL REQUIRED STORM STRUCTURE RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYLROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.
- 9. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE OWNER AND/OR ENGINEER UPON COMPLETION OF THE PROJECT AND ACCURATELY SHOWN ON THE RECORD DRAWINGS.

### SOIL EROSION AND SEDIMENT **CONTROL CONSTRUCTION SCHEDULE**

OBTAIN NPDES AND OTHER APPLICABLE SITE PERMITS AND REVIEW PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP THROUGHOUT THE DURATION OF CONSTRUCTION AS NECESSARY UNTIL FINAL SITE STABILIZATION IS ACHIEVED.

- 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- 3. INSTALL PERIMETER SEDIMENT CONTROL MEASURES (E.G. SILT FENCE).
- 4. INSTALL PROTECTION DEVICES FOR EXISTING DRAINAGE INLET AND OUTLET STRUCTURES, IF APPLICABLE.
- 5. PERFORM STORMWATER POLLUTION PREVENTION SITE INSPECTIONS ON A WEEKLY BASIS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). AT A MINIMUM, THE INSPECTIONS SHALL INCLUDE THE DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, ALL STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ANY ADDITIONAL BEST MANAGEMENT PRACTICES IDENTIFIED IN THE SWPPP.
- 5.1. ALL SITE EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE CONTINUOUSLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION (SEE THE STORMWATER POLLUTION PREVENTION NOTES AND STORMWATER POLLUTION PREVENTION MAINTENANCE SCHEDULE FOR ADDITIONAL INFORMATION). CONTRACTOR SHALL MAKE AND COMPLETE THE REQUIRED REPAIRS WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION.
- 5.2. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL STRUCTURAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE SITE INSPECTIONS.
- 5.3. PERFORM STREET CLEANING OPERATIONS AND OTHER BEST MANAGEMENT PRACTICES AS NEEDED.
- 6. PERFORM SITE CLEARING AND GRUBBING AND REMOVE EXISTING VEGETATION AS NEEDED FOR INITIAL SITE GRADING OPERATIONS. VEGETATED SITE AREAS THAT ARE NOT INCLUDED WITH THE INITIAL GRADING SHALL REMAIN UNDISTURBED. ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCE AND STABILIZED WITHIN THREE (3) DAYS OF FORMING THE STOCKPILE.
- 7. REMOVE ALL ITEMS NOTED FOR REMOVAL IN THE DEMOLITION PLAN.
- 8. PERFORM ROUGH GRADING OPERATIONS, CONSTRUCT OVERFLOW ROUTES, AND STABILIZE ALL DISTURBED AREAS, INCLUDING BUT NOT LIMITED TO STEEP SLOPES, DRAINAGE CHANNELS AND SWALES (I.E. TEMPORARY AND PERMANENT SEEDING, EROSION CONTROL BLANKETS, RIP-RAP, CHECK DAMS, TEMPORARY DRAINAGE DIVERSIONS, ETC.).
- 9. INSTALL TEMPORARY CONCRETE WASHOUT FACILITY.
- IO. INSTALL BUILDING FOUNDATIONS AND BEGIN BUILDING CONSTRUCTION. II. INSTALL DETENTION SYSTEMS, STORM SEWERS AND OTHER SITE UTILITIES AND IMMEDIATELY INSTALL DRAINAGE INLET AND OUTLET PROTECTION DEVICES AS INDICATED ON THE PLANS.
- 12. PROVIDE TEMPORARY SEEDING AND/OR MULCHING FOR ALL DISTURBED SITE AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN FOURTEEN (14) DAYS.
- 13. INSTALL CURBS AND BEGIN SITE PAVING OPERATIONS (I.E. DRIVEWAYS, SIDEWALKS, ETC.).
- 14. COMPLETE BUILDING CONSTRUCTION AND REMAINING SITE IMPROVEMENTS.
- 15. REMOVE TEMPORARY SITE EROSION AND SEDIMENT CONTROL MEASURES WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION.
- 16. SUBMIT A NOTICE OF TERMINATION (N.O.T.) TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY UPON COMPLETION OF ALL SITE CONSTRUCTION AND FINAL SITE STABILIZATION (I.E. OVER 70% VEGETATIVE COVER).

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C-8.0

SPECIFICATIONS

#### A. REFERENCED SPECIFICATIONS

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE EXCEPT AS MODIFIED HEREIN OR ON THE PLAN
- \* STANDARD SPECIFICATIONS FOR ROAD AND E ILLINOIS DEPARTMENT OF TRANSPORTATION
- SEWER AND WATER MAIN CONSTRUCTION; \* STANDARD SPECIFICATIONS FOR WATER AND EDITION (SSWS) FOR SANITARY SEWER AND
- \* VILLAGE OF HOFFMAN ESTATES MUNICIPAL C \* THE METROPOLITAN WATER RECLAMATION D
- MANAGEMENT ORDINANCE AND TECHNICAL ( \* IN CASE OF CONFLICT BETWEEN THE APPLICA PRECEDENCE AND SHALL CONTROL ALL CONS

#### B. NOTIFICATIONS

- 1. THE MWRD LOCAL SEWER SYSTEMS SECTION F DAYS PRIOR TO THE COMMENCEMENT OF ANY 2. THE VILLAGE OF HOFFMAN ESTATES ENGINEER
- PRIOR TO THE START OF CONSTRUCTION AND DETERMINE ITEMS REQUIRING INSPECTION PR 3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY
- EXACT LOCATIONS OF UTILITIES AND FOR THE UTILITIES ARE ENCOUNTERED THAT CONFLICT NOTIFY THE ENGINEER SO THAT THE CONFLIC

#### C. GENERAL NOTES

- 1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE CONVERSION FACTOR IS 0 FT. 2. MWRD, THE MUNICIPALITY AND THE OWNER OR
- 3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OW ETC., FROM ALL LIÀBILITY INVOLVED WITH THE ON THE PROJECT.
- 4. THE PROPOSED IMPROVEMENTS MUST BE CONS AS APPROVED BY MWRD AND THE MUNICIPALI MUNICIPALITY, OR AUTHORIZED AGENT. THE C BE FOLLOWED. PROPER CONSTRUCTION TECHN INDICATED ON THE PLANS.
- 5. THE LOCATION OF VARIOUS UNDERGROUND UT INFORMATION ONLY AND REPRESENT THE BEST ELEVATIONS PRIOR TO BEGINNING THE CONST
- 6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWA AND NOT CALLED FOR TO BE REMOVED SHALL
- 7. MATERIAL AND COMPACTION TESTING SHALL B
- OF THE MUNICIPALITY, MWRD, AND OWNER. 8. THE UNDERGROUND CONTRACTOR SHALL MAKE
- 9. ALL NEW AND EXISTING UTILITY STRUCTURES (
- SHALL BE ADJUSTED TO FINISH GRADE PRIOR 10. RECORD DRAWINGS SHALL BE KEPT BY THE CO UNDERGROUND IMPROVEMENTS ARE COMPLE
- UNTIL THEY ARE RECEIVED. ANY CHANGES IN ALL WYES OR BENDS SHALL BE LOCATED FROM OR BENDS SHALL BE TIED TO A FIRE HYDRAN

#### D. SANITARY SEWER

- 1. THE CONTRACTOR SHALL TAKE MEASURES TO PI SURFACE WATER, FROM ENTERING THE EXISTIN
- 2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN CONNECTION PRIOR TO COMMENCING ANY SEV UNTIL REMOVAL IS AUTHORIZED BY THE MUNIC TESTED AND ACCEPTED.
- 3. DISCHARGING ANY UNPOLLUTED WATER INTO SEWER FLUSHING OF LINES FOR THE DEFLECTI FROM THE MUNICIPALITY OR MWRD.
- 4. ALL SANITARY SEWER CONSTRUCTION SHALL E FOR WATER AND SEWER MAIN CONSTRUCTION
- 5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE
- 6. ALL DOWNSPOUTS AND FOOTING DRAINS SHAL
- 7. ALL SANITARY SEWER PIPE MATERIALS AND JOI IN A COMBINED SEWER AREA) SHALL CONFORM

### MWRD GENERAL NOTES

		GENERAL N	
. REFERENCED SPECIFICATIONS			
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HERFIN OR ON THE PLANS:	VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
* STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY	REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
SEWER AND WATER MAIN CONSTRUCTION; * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST	CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION; * VILLAGE OF HOFFMAN ESTATES MUNICIPAL CODE; * THE METROPOLITAN WATER DECLAMATION DISTRICT OF CREATER CHICACO (MWDD) WATERSHED	DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
<ul> <li>* IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.</li> </ul>	POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM D-3034 ASTM F-679	ASTM D-3212 ASTM D-3212
. NOTIFICATIONS	HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212 E-477 (GASKETED)
THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).	WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH	ASTM D-2241 AWWA C900	ASTM D-3139 ASTM D-3139 ASTM D-3139
PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.	14-INCH TO 48-INCH     AWWA C905     ASTM D-3139       THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND		
. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.	APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.		A CONNECTION IS MADE.
. GENERAL NOTES	PIPE MATERIAL POLYPROPYLENE (PP) PIPE	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS 0 FT.	12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO	30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477
INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS. . THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK	THE FOLLOWING MATERIALS ARE ALLOWED APPROVAL PRIOR TO PERMIT ISSUANCE. A THE PIPE MATERIAL BELOW IS USED FOR S	O ON A QUALIFIED BASIS S SPECIAL CONDITION WIL EWER CONSTRUCTION OR	SUBJECT TO DISTRICT REVIEW AND L BE ADDED TO THE PERMIT WHEN A CONNECTION IS MADE.
ON THE PROJECT. . THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED, PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS.	<ol> <li>ALL SANITARY SEWER CONSTRUCTION ( REQUIRES STONE BEDDING WITH STON TO ¼ THE OUTSIDE DIAMETER OF THE THAN EIGHT (8) INCHES. MATERIAL SHA ABOVE THE TOP OF THE PIPE WHEN USI     </li> </ol>	AND STORM SEWER CONS E ¼ ″ TO 1″ IN SIZE, WITH SEWER PIPE, BUT NOT LES ALL BE CA-7, CA-11 OR CA- ING PVC.	TRUCTION IN COMBINED SEWER AREAS), H MINIMUM BEDDING THICKNESS EQUAL SS THAN FOUR (4) INCHES NOR MORE 13 AND SHALL BE EXTENDED AT LEAST 12"
INDICATED ON THE PLANS.	9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS OF DISSIMILAR PIPE MATERIALS.	SHALL BE USED IN THE CO	DNNECTION OF SEWER PIPES
. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.	10. ALL MANHOLES SHALL BE PROVIDED W CONSTRUCTED WITH A CONCEALED PIC CAST INTO THE LID.	ITH BOLTED, WATERTIGHT CKHOLE AND WATERTIGHT	T COVERS. SANITARY LIDS SHALL BE GASKET WITH THE WORD ``SANITARY"
. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.	11. WHEN CONNECTING TO AN EXISTING S	EWER MAIN BY MEANS OT	HER THAN AN EXISTING WYE, TEE, OR
. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.	a) A CIRCULAR SAW-CUT OF SEWER N AND PROPER INSTALLATION OF HU b) REMOVE AN ENTIRE SECTION OF P	AIN BY PROPER TOOLS SHA MAIN BY PROPER TOOLS (`` JBWYE SADDLE OR HUB-TE TPE (BREAKING ONLY THE	ALL BE USED: SHEWER-TAP" MACHINE OR SIMILAR) EE SADDLE. TOP OF ONE BELL) AND REPLACE WITH
. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.	A WYE OR TEE BRANCH SECTION. c) WITH PIPE CUTTER, NEATLY AND A	ACCURATELY CUT OUT DES	SIRED LENGTH OF PIPE FOR INSERTION
. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.	12. WHENEVER A SANITARY/COMBINED SEV DISTANCE FROM THE TOP OF THE SEWI	WER CROSSES UNDER A W ER TO THE BOTTOM OF TH	ATERMAIN, THE MINIMUM VERTICAL WATERMAIN SHALL BE 18 INCHES.
0. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.	FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IN TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BI EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSE		BETWEEN SANITARY/COMBINED SEWER IS LAID IN A SEPARATE HE SEWER IS LAID IN THE SAME E ON A BENCH OF UNDISTURBED HER THE VERTICAL OR HORIZONTAL CROSSES ABOVE THE WATER MAIN, DS OR IT SHALL BE ENCASED WITH A
<u>D. SANITARY SEWER</u> . THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER FROM ENTERING THE EXISTING SANITARY SEWERS	WATER MAIN QUALITY CARRIER PIPE W	ITH THE ENDS SEALED.	
A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER	GRANULAR MATERIAL OR REMOVED.		
UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.	MINIMUM INSIDE DIAMETER OF 48 INCL CONCRETE.	HES, AND SHALL BE CAST	IN PLACE OR PRE-CAST REINFORCED
. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.	15. ALL SANITARY MANHOLES, (AND STORM PRECAST "RUBBER BOOTS" THAT CONF SECTIONS SHALL CONSIST OF MODIFIE	4 Manholes in Combinei Orm to Astm C-923 for , D groove tongue and f	D SEWER AREAS), SHALL HAVE ALL PIPE CONNECTIONS. PRECAST RUBBER GASKET TYPE JOINTS.
. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).	16. ALL ABANDONED SANITARY SEWERS SH NON-SHRINK CONCRETE OR MORTAR PI	IALL BE PLUGGED AT BOTH LUG.	HENDS WITH AT LEAST 2 FEET LONG
. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.	17. EXCEPT FOR FOUNDATION/FOOTING DE	RAINS PROVIDED TO PROT	ECT BUILDINGS, OR PERFORATED PIPES
. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.	ASSOCIATED WITH VOLUME CONTROL F PIPES ARE NOT ALLOWED TO BE CONNE	FACILITIES, DRAIN TILES/ ECTED TO OR TRIBUTARY	FIELD TILES/UNDERDRAINS/PERFORATED TO COMBINED SEWERS, SANITARY
. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:	SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEV TO COMBINED SEWERS.		IN COMBINED SEWER AREAS. D; AND ALL EXISTING DRAIN TILES AND SHALL BE PLUGGED OR REMOVED, AND EWERS, OR STORM SEWERS TRIBUTARY
	18. A BACKFLOW PREVENTER IS REQUIRED REQUIRED BACKFLOW PREVENTERS SHA OWNER TO ENSURE PROPER OPERATIO ENSURE FUNCTIONALITY. IN THE EVEN TRIBUTARY TO COMBINED SEWERS, TH SEWAGE TAKES PLACE WITHIN 48 HOU	FOR ALL DETENTION BAS ALL BE INSPECTED AND EX N, AND ANY NECESSARY M T OF A SEWER SURCHARG E PERMITTEE SHALL ENSU RS OF THE STORM EVENT.	INS TRIBUTARY TO COMBINED SEWERS. (ERCISED ANNUALLY BY THE PROPERTY IAINTENANCES SHALL BE PERFORMED TO E INTO AN OPEN DETENTION BASIN IRE THAT CLEAN UP AND WASH OUT OF

![](_page_21_Figure_31.jpeg)

PROJECT SPECIFICATIONS

![](_page_22_Picture_0.jpeg)

Species	lb./acr
Alisma subcordatum Water Plantain	0.250
Andropogon gerardii Big Bluestem	5.000
Andropogon scoparius (Schizachyrium s.) Little Bluestem	5.000
Aster novae-angliae (Symphyotrichum n.) New England Aster	0.125
Bouteloua curtipendula Side Oats Gramma	5.000
Carex vulpinoidea Fox Sedge	0.500
Elcocharis spp Spike Rush	0.125
Elymus canadensis Canadian Wild Rye	8.000
Elymus villosus Silkey Wild Rye	4.000
Elymus virginicus Virginia Wild Rye	8.000
Glyceria striata Fowl Manna Grass	1.000
Helenium autumnale Sneezeweed	0.125
Juncus spp Rush Species	0.125
Leersia oryzoides Rice Cut Grass	1.000
Panicum virgatum Switch Grass	1.000
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.125
Sorghastrum nutans Indian Grass	10.000
Spartina pectinata Prairie Cord Grass	0.500
Agrostis alba Red Top Grass	1.000
Avena sativa Seed Oats	20
Lolium multiflorum Annual Rye	5.000
Tatal	75 971

![](_page_23_Figure_0.jpeg)

TOPOGRAPHIC SURVEY

![](_page_24_Figure_0.jpeg)

# **TOPOGRAPHIC SURVEY**

5 <sup>25</sup>
× / /// // # / //• wF#28 / #
2 <sup>53</sup> WE#13.
$\gamma = \frac{1}{\sqrt{2}} \sqrt{4} \sqrt{1} \sqrt{2}$
// ×//wF#29 / www.
GUY WIRE
-192
1 K yokor
4' CHAIN-LINK FENCE
GRASS
12" / /
6"
`\

- RIM=748.86' (STORM) 96" CONCRETE STRUCTURE INV=745.52' (18" CPP WNW) INV=745.29' (24" RCP NNE) INV=745.40' (15" CPP ESE) INV=744.74' (29" X 45" ELLIPTICAL RCP)
- RIM=749.73' (SANITARY) 48" CONCRETE STRUCTURE INV=741.90' (8" CLAY WNW/ESE) INV=742.60' (6" CLAY SSW)
- RIM=749.99' (STORM)24" CONCRETE STRUCTUREINV=747.97' (4" PVC NW)INV=747.90' (8" PVC NNE/SSW)
- RIM=750.92' (STORM) 24" CONCRETE STRUCTURE INV=748.47' (8" PVC WNW/NE/SSW) INV=749.52' (4" PVC N) INV=749.32' (4" PVC N) INV=749.47' (4" PVC E)
- RIM=753.65' (SANITARY)48" CONCRETE STRUCTUREINV=746.69' (8" CLAY N/SSW)
- RIM=752.06' (SANITARY) 48" CONCRETE STRUCTURE INV=740.71' (8" CLAY WNW/NNE/ESE) INV=744.19' (8" CLAY NNE) INV=740.71' (12" CLAY SSW)
- RIM=757.22' (SANITARY) 48" CONCRETÈ STRUCTÚRE INV=747.87' (8" CLAY N/S)
- RIM=759.49' (SANITARY) 48" CONCRETÈ STRUCTURE INV=752.34' (8" CLAY N/SSW)
- RIM=765.70' (SANITARY) OUTSIDE SCOPE 48" CONCRETE STRUCTURE INV=757.79' (8" CLAY W/N/SSW)
- RIM=765.05' (WATER) OUTSIDE SCOPE RIM=765.05' (WATER) OUTSIDE SCOPE UNABLE TO DETERMINE SIZE OF STRUCTURE TOP OF PIPE=759.36' (DIP N/S) TOP OF PIPE=759.68' (DIP W) UNABLE TO DETERMINE SIZES OF PIPES TOP OF WATER=763.91'
- RIM=766.94' (SANITARY) OUTSIDE SCOPE 48" CONCRETE STRUCTURE INV=759.28' (8" CLAY E/W)
- RIM=766.74' (SANITARY) 48" CONCRETE STRUCTURE INV=761.19' (6" METAL SW) INV=760.50' (8" CLAY E
- RIM=755.45' (SANITARY) 48" CONCRETE STRUCTURE INV=748.19' (8" CLAY NNE/SSW)
- RIM=757.95' (WATER) UNABLE TO DETERMINE SIZE OF STRUCTURE TOP OF PIPE=753.43' (NNE/SSW) UNABLE TO DETERMINE SIZE AND MATERIAL OF PIPE TOP OF WATER=756.95'

STATE OF ILLINOIS ) SS COUNTY OF COOK )

WE THE W-T GROUP DO HEREBY DECLARE THAT THIS TOPOGRAPHIC SURVEY WAS MADE UNDER OUR DIRECTION AND SUPERVISION. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR TOPOGRAPHIC SURVEYS.

GIVEN UNDER OUR HAND AND SEAL THIS \_\_\_\_\_\_ DAY OF \_ A.D.<u>\_2020\_</u>. AT HOFFMAN ESTATES, ILLINOIS. FRANJO I. MATICIC THE W-T GROUP, LLC 035-003556 HOFFMAN STATI Thago ATE OF I FRANJO I. MATICIC - PLS #035-003556 EXPIRES 11/30/2020

ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184.007570-0015

7/20/20 ISSUED TOPOGRAPHY 7/30/20 ADDED WETLAND FLAGS 8/5/20 REVISED PER COMMENTS

BILIT CCESSI 60169 ILLINOIS ATES, ST ATION I PARK ASH ROAD FFMAN ESTA SH 5 A OFI BIRC 104 'ELECON ŋ m U U ECT Ш ISSUE DATE 7/20/20 CLIENT CLIENT 7/30/20 CLIENT 8/5/20 CHECK:FIM DRAWN:BMB JOB: 2001566C

![](_page_24_Picture_28.jpeg)