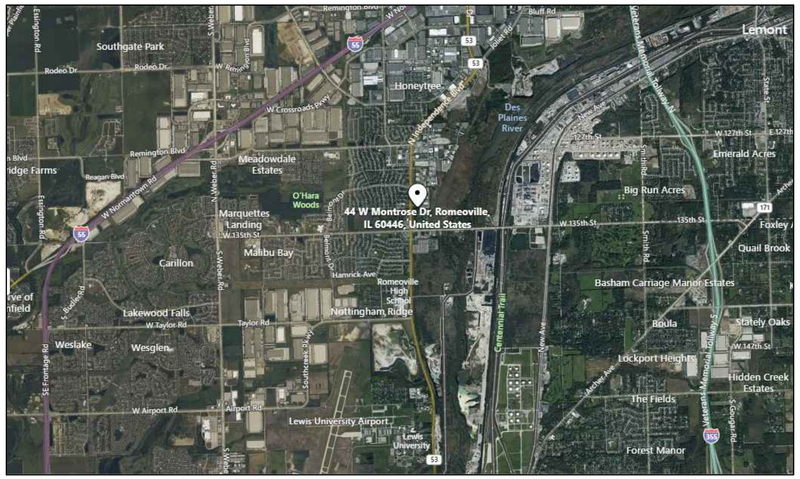
IMPROVEMENT PLANS
FOR
CARE CREMATION CENTER



LOCATION MAP

INDEX OF SHEETS

BENCHMARK

DUPAGE COUNTY BM DK3123 – BRASS DISK IN A CONCRETE TRAFFIC SIGNAL BASE LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF MAPLE AVENUE AND DUNHAM ROAD.

ELEVATION = 743.21 (NAVD 88)

PLSI 01 – NGS OPUS PID BBDM17: CUT CROSS IN TOP OF CURB AT NOSE OF NORTHERLY CURB ISLAND BETWEEN 3080 AND 3060 OGDEN AVE IN LISLE, ILLINOIS.

ELEVATION = 733.51 (NAVD 88)

WILL COUNTY BENCHMARK NGS PID ME1609
USGS QUAD FRANKFORT (1990)

ELEVATION = 748.66 (NAVD 88)

PROPERTY INFORMATION:

ADDRESS: LOT 15 ROMEOVILLE COMMERCIAL PARK UNIT 2
MUNICIPALITY: VILLAGE OF ROMEOVILLE
COUNTY: WILL
SECTION: SEC. 34 T37N R10E
P.I.N.(S): 02-34-310-017

OWNER: JOHN HANN
CARE CREMATION CENTER
515 ANDERSON DRIVE SUITES 100 & 200
ROMEOVILLE, IL 60446

VILLAGE CONTACT: MR. JONATHON ZABROCKI, P.E.
C/O VILLAGE OF ROMEOVILLE
615 ANDERSON DRIVE
ROMEOVILLE, IL 60446
815-886-1870

WARNING

CALL J.U.L.I.E TOLL FREE 1-800-892-0123

CALL BEFORE YOU DIG

ROMEOVILLE PUBLIC WORK & UTILITIES DEPARTMENTS AND BUILDING DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE START OF OR RESUMPTION OF WORK ON THE PROJECT

EXISTING	LEGEND	PROPOSED
	STORM SEWER	
	SANITARY SEWER	
WM WM	WATER MAIN	WM WM
	FIRE HYDRANT	
	VALVE VAULT	
	VALVE BOX	
	STORM SEWER MANHOLE	
	CATCH BASIN	
	INLET	
	FLARED END SECTION	
	SANITARY SEWER MANHOLE	
	STREET LIGHT	

DRAINAGE & ENGINEER CERTIFICATE

I, THOMAS CARROLL, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY AFFIRM THAT THESE DOCUMENTS HAVE BEEN PREPARED BY OR UNDER MY DIRECT SUPERVISION AND CONTROL AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DOCUMENTS HAVE BEEN PREPARED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS AND PRACTICES.

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

DATED THIS 18TH DAY OF AUGUST, 2021

THOMAS CARROLL, P.E.
ILLINOIS P.E. #062-052783
LICENSE EXPIRES 11-30-2021
GEOTECH INCORPORATED PROFESSIONAL
DESIGN FIRM NUMBER 184-000165

THOMAS E. CARROLL 62-052783 REGISTERED PROFESSIONAL ENGINEER ILLINOIS

8-16-21 1 VILLAGE REVIEW #1
6-30-21 REV ISSUED FOR PERMIT REVISION
DATE REV

TITLE SHEET

DRAWN BY: NW JOB: 20973
CHECKED BY: TC DATE: 6/22/2021

CARE CREMATION CENTER
33 EAST MONTROSE DRIVE
ROMEOVILLE, IL

GEOTECH INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010

20973

1

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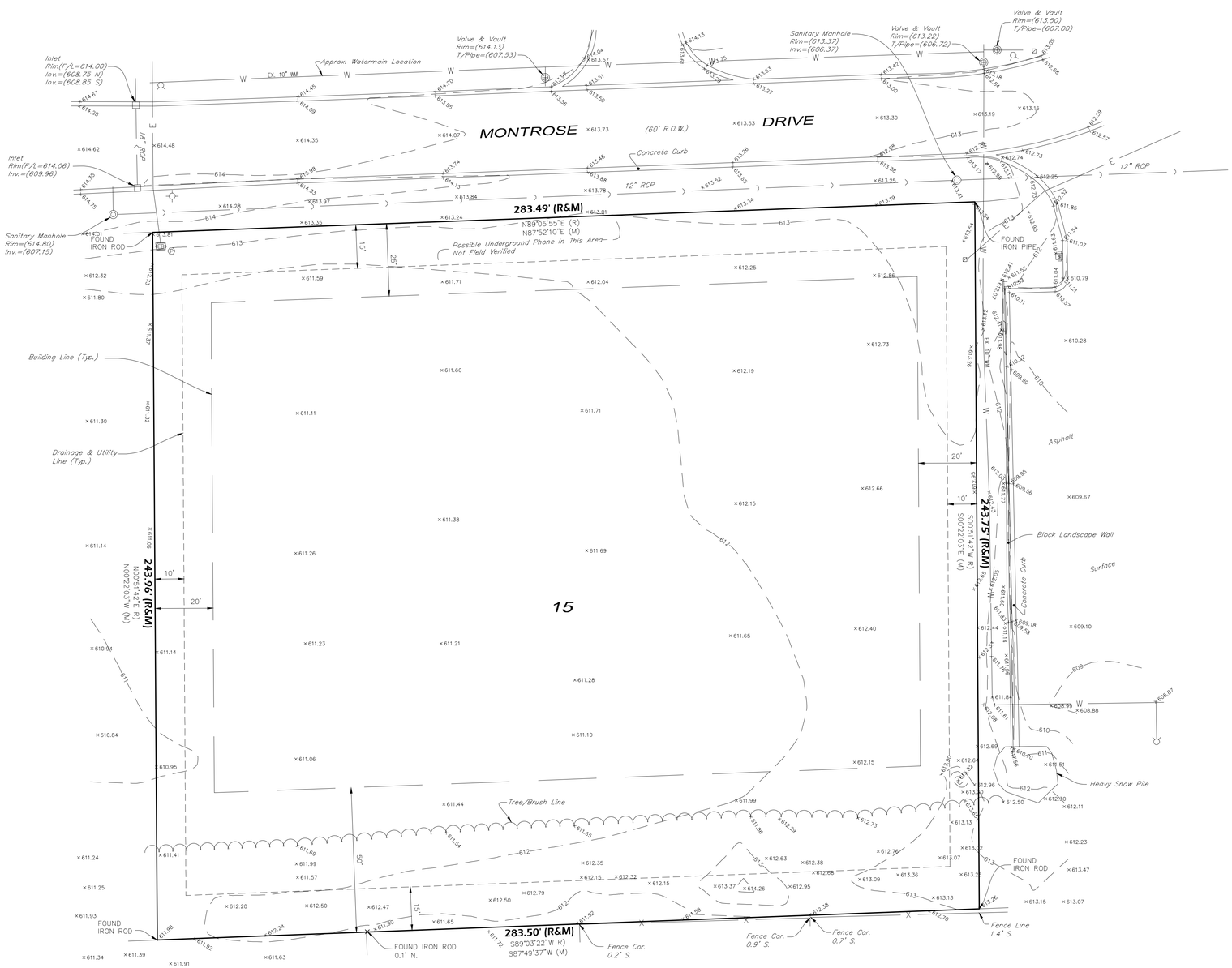

NOTES:

1. EXISTING CONDITIONS BASED ON TOPOGRAPHIC SURVEY PERFORMED BY PROFESSIONAL LAND SURVEYING INC.
2. LOCATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES AND JULIE TO VERIFY LOCATIONS AND ELEVATIONS PRIOR TO STARTING ANY WORK.
3. CONTRACTOR TO PROVIDE NECESSARY PROTECTION TO ALL EXISTING UTILITES AND ROADWAYS.
4. THE VILLAGE OF ROMEOVILLE SHALL BE NOTIFIED WHEN EXISTING FIELD DRAINAGE TILES ARE ENCOUNTERED DURING CONSTRUCTION REGARDLESS OF CONDITION OR FUNCTIONALITY. THE VILLAGE/CITY SHALL HAVE FINAL APPROVAL OF ANY REPAIR, CONNECTION, ABANDONMENT, OR OTHER METHODS FOR MITIGATING EXISTING DRAINAGE TILES ENCOUNTERED ON SITE.

REV	DATE	REVISION
1	6-30-21	VILLAGE REVIEW #1
	8-16-21	ISSUED FOR PERMIT

EXISTING CONDITIONS PLAN

DRAWN BY: NW
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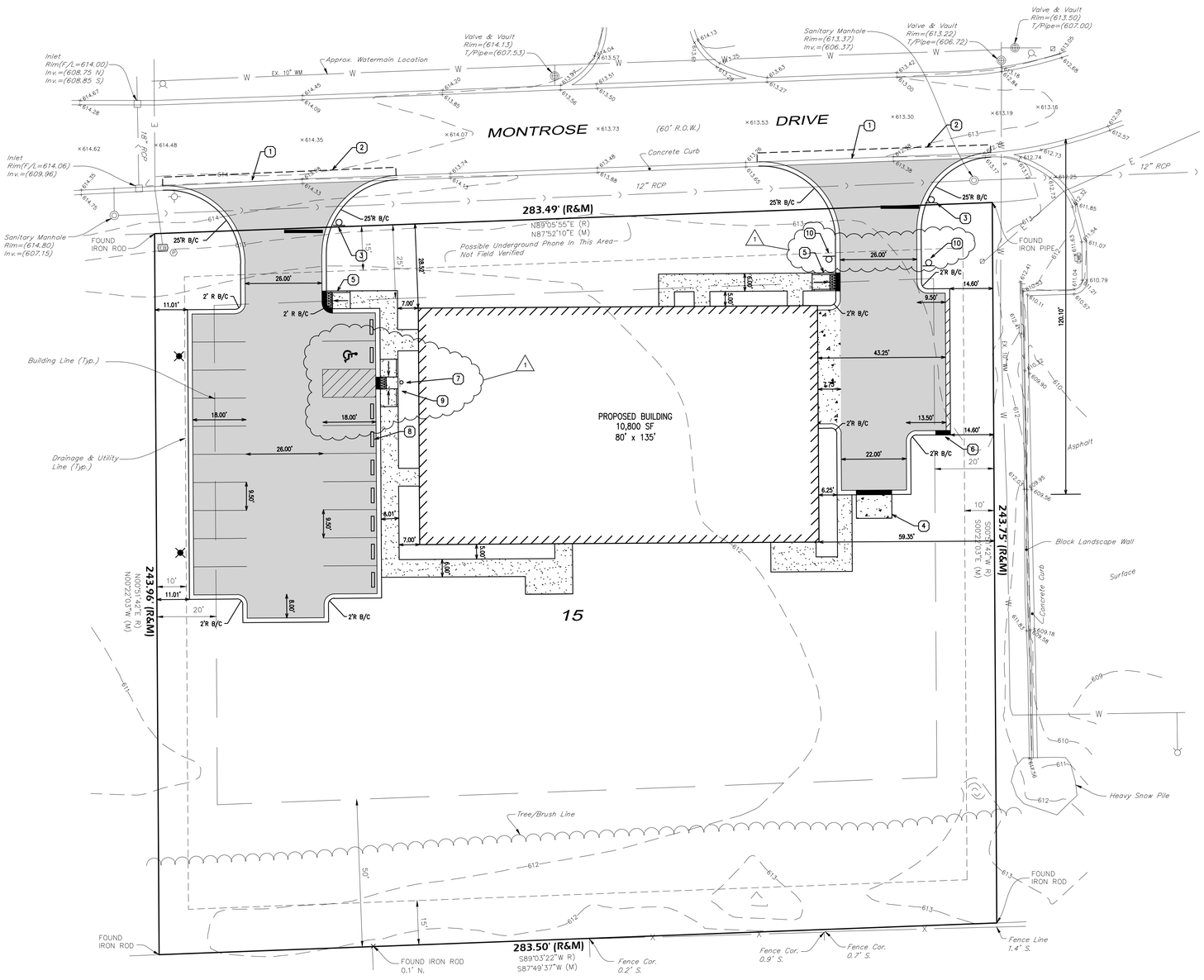

SITE DATA TABLE

SITE AREA:	69,107 S.F. ± (1.59 ACRE)
IMPERVIOUS AREA:	24,295 S.F. ± (0.56 ACRES) (35.2%)
FLOOR AREA RATIO:	15.6%
SETBACKS:	
FRONT	25
SIDE	20
YEAR	50
STANDARD PARKING STALLS:	18
A.D.A. PARKING STALLS:	1

NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR PROPOSED BUILDING DETAILS AND DIMENSIONS. BUILDING FOOTPRINT(S) SHOWN FOR REFERENCE.
2. ACCESSIBLE PARKING STALLS SHALL BE STRIPED WITH YELLOW PAINT. NON-ACCESSIBLE PARKING STALLS SHALL BE STRIPED WITH A HIGH QUALITY WHITE PAINT. ALL PAINT USED FOR MARKINGS SHALL BE MANUFACTURED SPECIFICALLY FOR PAVEMENT STRIPING.
3. WHERE SHOWN ON PLANS, SIDEWALKS INTERSECTING CURB SHALL BE CONSTRUCTED WITH DEPRESSED CURBS, A.D.A ACCESSIBLE RAMPS, AND DETECTABLE WARNING SURFACE PER TYPICAL DETAILS PROVIDE IN PLAN SET.
4. CURB RAMPS FOR SIDEWALKS ADJACENT TO ACCESSIBLE STALLS SHALL BE PROVIDED AT LOCATIONS SHOWN ON PLANS, PER THE STANDARD IDOT DETAILS. RAMPS SHALL INCLUDE DEPRESSED CURBS AND DETECTABLE WARNING SURFACE. CURB TRANSITIONS FROM FULL HEIGHT TO DEPRESSED AT THE RAMP SHALL BE MINIMUM OF 6 LF.
5. ACCESSIBLE PARKING STALLS AND SIGNAGE SHALL BE CONSTRUCTED PER THE TYPICAL DETAIL PROVIDED IN PLAN SET.
6. ALL CONNECTIONS TO EXISTING PAVEMENT SHALL BE PROVIDED WITH A BUTT JOINT.
7. PROVIDE FULL DEPTH SAWCUT FOR ALL CURB, PAVEMENT, OR SIDEWALK TO BE REMOVED.
8. ALL SIGNS SHALL COMPLY WITH THE U.S. DEPT. OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE ILLINOIS ADMINISTRATIVE CODE, LATEST EDITIONS.

(f) CONSTRUCTION NOTES:

1. EXISTING CURB TO BE BE REMOVED AND REPLACED WITH DEPRESSED CURB ACROSS PROPOSED ENTRANCE, SEE DETAIL. PROPOSED CURB TO BE CONNECTED TO EXISTING WITH THREE DRILLED AND GROUTED NO. 5 REINFORCING BARS OR EXPANSION TIE ANCHORS, ¾" IN DIAMETER..
2. SAWCUT EXISTING PAVEMENT 3 FEET FROM EDGE OF EXISTING CURB. PAVEMENT TO BE REMOVED WITH CURB AND GUTTER REMOVAL AND REPLACEMENT. PAVEMENT TO BE RESTORED WITH BITUMINOUS PATCH MATCHING EXISTING PAVEMENT.
3. STOP SIGN, R1-1, 30" X 30" W/ 12" WHITE STOP BAR
4. CONCRETE PAD, 12' x 8', FOR TRASH ENCLOSURE. SEE ARCHITECTURAL PLANS FOR TRASH ENCLOSURE DETAILS.
5. ACCESSIBLE RAMP, SEE DETAIL. DECTECTABLE WARNING PLATE SHALL BE EAST JORDAN INSERTS, HEAVY DUTY LOAD RATING, BRICK RED POWDER COATING RAL3016. TWO 30" x 24" PLATES ARE REQUIRED FOR 5' WALKS.
6. DEPRESS CURB FOR OVERLAND FLOW TO SOUTH
7. ACCESSIBLE STALL PARKING SIGN
8. PROVIDE CONCRETE WHEEL STOPS FOR STALLS ADJACENT TO SIDEWALK.
9. ACCESSIBLE RAMP, SEE DETAIL. PROVIDE 6 FOOT TRANSITION FROM FULL HEIGHT TO DEPRESSED CURB ON EITHER SIDE OF LANDING. SEE NOTE 5 FOR DETECTABLE WARNING PLATE INFORMATION.
10. "NO PARKING FIRE LANE" SIGN

PAVEMENT LEGEND:

BITUMINOUS PAVEMENT:

PARKING STALLS (SN=2.64)
1.5" HMA SURFACE, MIX D, N50
2.5" HMA BINDER, IL19, N50
8" AGGREGATE, TYPE B, CA-6

DRIVE AISLES/ENTRANCES (SN=3.16)
1.5" HMA SURFACE, MIX D, N50
2.5" HMA BINDER, IL19, N50
12" AGGREGATE, TYPE B, CA-6

CONCRETE PAVEMENT:
8" PCC, 4,000 PSI
4" AGGREGATE BASE, TYPE B, CA-6
W/6"x6"-W2.9xW2.9 W.W.F.

PCC SIDEWALK:
6" PCC, 4,000 PSI
4" AGGREGATE, CA7

B6.12 CURB & GUTTER (REVERSE PITCH)

B6.12 CURB & GUTTER (STANDARD PITCH)

DEPRESSED CURB & GUTTER.

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GEOMETRIC PLAN

DRAWN BY: NW
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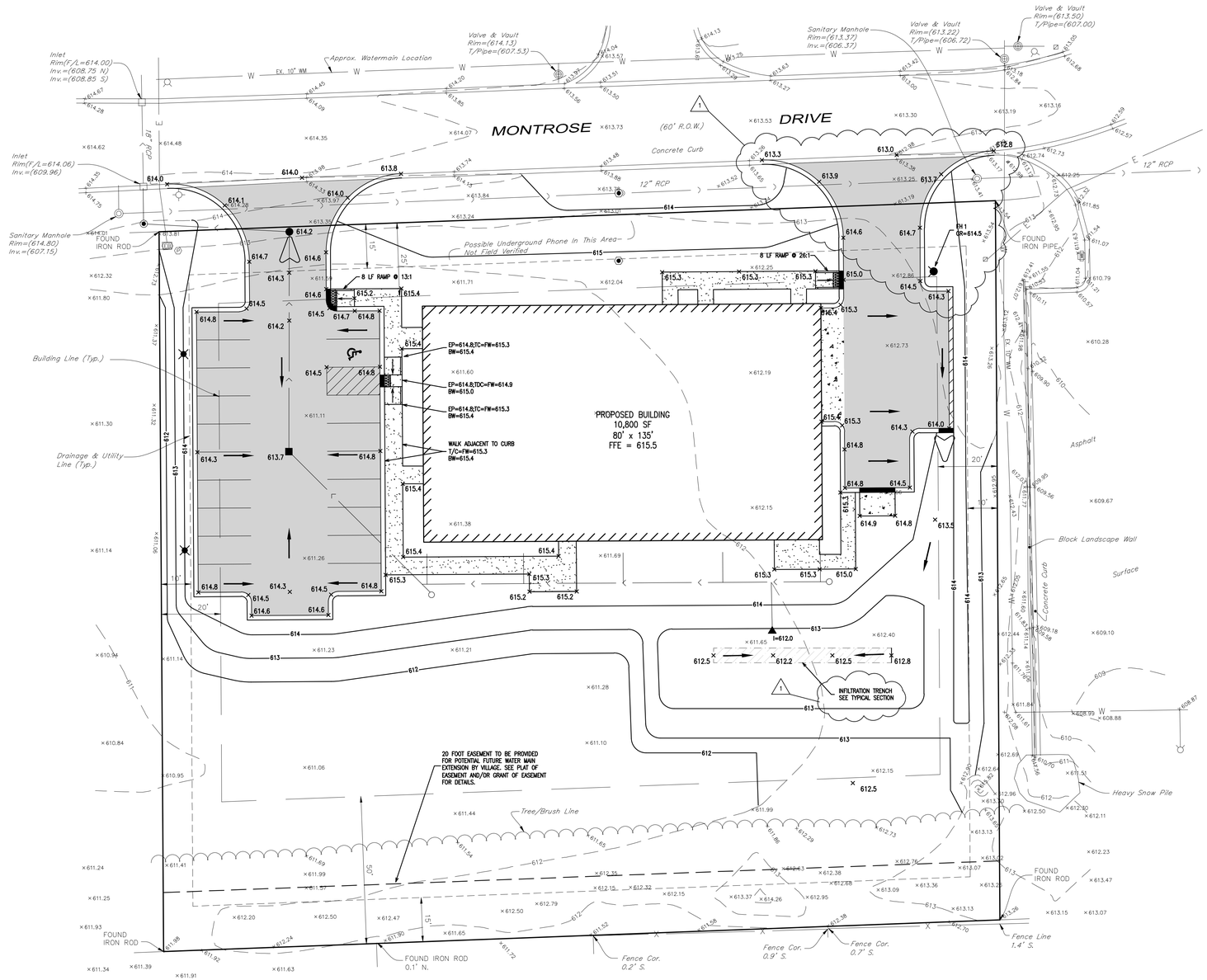


NOTES:

1. UNLESS OTHERWISE NOTED, ALL PROPOSED ELEVATIONS ARE EITHER FINISHED PAVEMENT ELEVATIONS OR FINISHED LANDSCAPE ELEVATIONS. SEE TYPICAL CURB DETAIL ON DETAIL SHEET FOR TOP OF CURB ELEVATIONS RELATIVE TO EDGE OF PAVEMENT.
2. ALL PROPOSED GRADES SHALL MATCH EXISTING GRADES AT PROPERTY LINES, EDGE OF PAVEMENT, CURB, OR SIDEWALKS.
3. RIM ELEVATIONS FOR STORM STRUCTURES LOCATED ALONG CURB AND GUTTER ARE EDGE OF PAVEMENT. RIM ELEVATIONS FOR ALL OTHER STRUCTURES ARE FINISHED LANDSCAPE OR PAVEMENT ELEVATION.
4. ALL NON-PAVED AREAS TO BE RE-SPREAD WITH 6" TOPSOIL AND STABILIZED WITH VEGETATIVE COVER.
5. FOR DEPRESSED CURB ADJACENT TO CURB RAMPS ACCESSIBLE TO THE DISABLED, TOP OF DEPRESSED CURB SHALL BE ONE-HALF INCH ABOVE THE FLOW LINE OF THE GUTTER. SEE DETAIL
6. EXCEPT AT DOOR LOCATIONS, SIDEWALKS ABUTTING PROPOSED BUILDINGS SHALL BE CONSTRUCTED AT AN ELEVATION ONE-INCH BELOW PROPOSED FINISHED FLOOR ELEVATION. WITH THE EXCEPTION OF CURB RAMPS, SIDEWALKS SHALL SLOPE AWAY FROM BUILDING AT MAXIMUM SLOPE OF 2%.
7. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%
8. CURB RAMPS, SIDE FLARES, LANDINGS, ETC. SHALL BE CONSTRUCTED PER THE TYPICAL DETAILS.
9. A.D.A. ACCESSIBLE PARKING STALLS SHALL NOT EXCEED A 2.0% SLOPE IN ANY DIRECTION AND ALL A.D.A. ACCESSIBLE ROUTES SHALL NOT EXCEED A 2% CROSS SLOPE AND 5% LONGITUDINAL SLOPE.

DETENTION NOTE:

DETENTION FOR THE SITE HAS BEEN PROVIDED IN A REGIONAL STORM WATER MANAGEMENT SYSTEM. THE SYSTEM HAS SUFFICIENT STORAGE VOLUME FOR THE SITE TO BE DESIGNED TO AN IMPERVIOUSNESS OF 66%

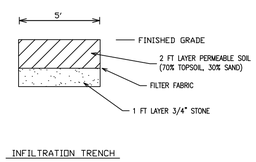
PROPOSED IMPERVIOUSNESS CALCULATION:

OVERALL SITE AREA: 1.59 ACRES

IMPERVIOUS SURFACE: 0.56 ACRES

PERCENT IMPERVIOUS: 35.2%

SITE IMPERVIOUSNESS IS LESS THAN 66%, THEREFORE NO ADDITIONAL STORAGE VOLUME IS REQUIRED.



INFILTRATION TRENCH

GRADING LEGEND:

TC	–	TOP OF CURB
DC	–	TOP OF DEPRESSED CURB
EP	–	EDGE OF PAVEMENT
TW	–	TOP OF SIDEWALK
R	–	STRUCTURE RIM
GR	–	FIRE HYDRANT GRADE RING
I	–	INVERT

100 YEAR FLOOD ROUTE

FLOW DIRECTION

×100.0 SPOT ELEVATION

100 CONTOUR

8-16-21 1 VILLAGE REVIEW #1
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GRADING PLAN

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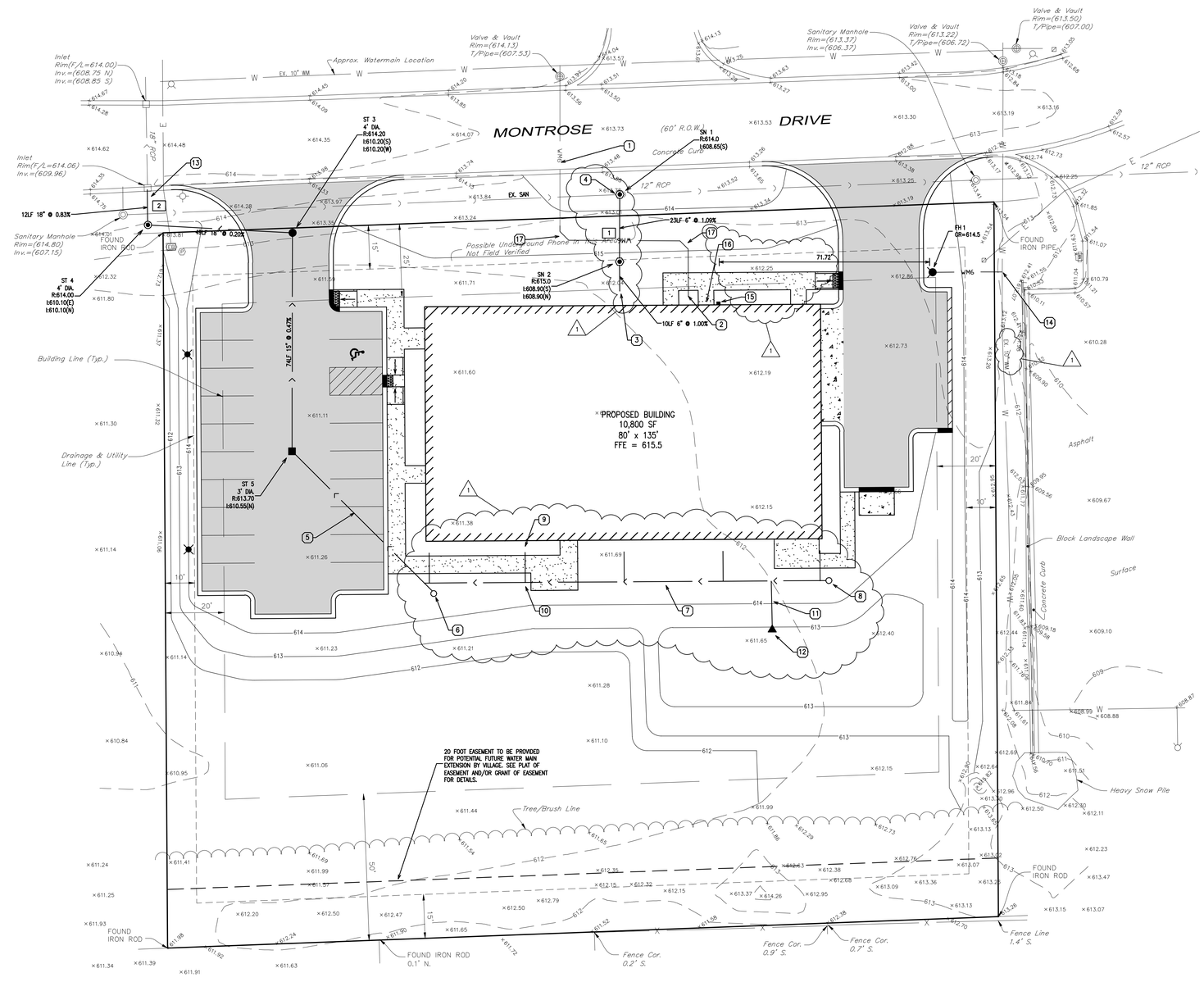

GRAPHIC SCALE 1"=20'

0 10 20 40

NOTES:

1. EXISTING UTILITIES HAVE BEEN SHOWN SCHEMATICALLY FOR REFERENCE BASED ON BEST AVAILABLE DATA. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UTILITIES THAT MAY BE AFFECTED PRIOR TO BEGINNING CONSTRUCTION.
2. ALL UTILITY LENGTHS ARE TO CENTER OF STRUCTURE.
3. ALL EXISTING AND PROPOSED UTILITY RIMS, GRADE RINGS, PEDESTALS, ETC. SHALL BE ADJUSTED AS REQUIRED TO MEET PROPOSED GRADES.
4. SELECT GRANULAR TRENCH BACKFILL (CA-7) MATERIAL SHALL BE PROVIDED FOR ALL TRENCHES LOCATED WITHIN TWO FEET OF PAVEMENT, CURB, DRIVEWAYS, AND SIDEWALKS.
5. WHERE INDICATED ON PLANS, PROPOSED WATER MAIN SHALL BE LOWERED TO ELEVATION SHOWN TO MAINTAIN MINIMUM 18" VERTICAL SEPARATION FROM SEWER PIPE. SEPARATION SHALL BE MAINTAINED FOR A DISTANCE OF 10 FEET EITHER SIDE OF SEWER PIPE. SEE SPECIFICATION SHEET FOR REQUIRED SEWER PIPE MATERIAL AT CROSSING.
6. RIM ELEVATIONS PROVIDED FOR STORM STRUCTURES LOCATED IN CURB AND GUTTER ARE EDGE OF PAVEMENT ELEVATIONS.
7. LIGHT POLES LOCATIONS SHOWN FOR REFERENCE. DESIGN OF POWER SYSTEM TO SERVE PROPOSED POLES TO BE PROVIDED BY OTHERS.
8. UNLESS OTHERWISE NOTED, SANITARY SEWER PIPE SHALL BE PVC. STORM SEWER PIPE SHALL BE RCP, AND WATER MAIN SHALL BE DUCTILE IRON. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.
9. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING WATER SERVICE PRIOR TO STARTING CONSTRUCTION. IF CONFLICT EXISTS WITH PROPOSED STORM, WATER MAIN SHALL BE REMOVED AND REPLACED TO PROVIDED REQUIRED 18" VERTICAL SEPARATION BETWEEN SEWER AND MAIN.
10. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING SANITARY SERVICE PRIOR TO STARTING CONSTRUCTION. IF CONFLICT EXISTS WITH PROPOSED STORM, SEWER SHALL SHALL BE REMOVED AND REPLACED TO EXISTING MAIN SEWER TO MAINTAIN MIN. 18" SEPARATION BETWEEN SEWERS.

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

(f) CONSTRUCTION NOTES:

1. EXISTING WATER AND SANITARY SEWER STUBS PER ORIGINAL SUBDIVISION PLANS. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF SERVICES PRIOR TO STARTING CONSTRUCTION.
2. STUB WATER MAIN 5 FEET FROM FOUNDATION WALL. PROVIDE TEMPORARY PLUG. MAINTAIN 5' COVER OVER PIPE. SEE MEP PLANS FOR CONNECTION TO BUILDING PLUMBING.
3. STUB SANITARY SERVICE 5 FEET FROM FOUNDATION WALL. PROVIDE TEMPORARY PLUG. SEE MEP PLANS FOR CONNECTION TO BUILDING PLUMBING. INV=609.0

1 — 4. PROPOSED DOG HOUSE MANHOLE TO BE INSTALLED ON EXISTING SANITARY SEWER LINE. APPROXIMATE INVERT OF EXISTING SEWER – 606.7, VERIFY IN FIELD.

5. 67 LF 12" HPDE SEWER @ 0.67%
6. CLEANOUT #1. R: 614.5; I: 611.0
7. 137 LF 12" HPDES SEWER @ 0.51%
8. CLEANOUT #2, R: 614.5, I: 611.9
9. 10 LF 6" HDPE SEWER STUBBED 5' FROM BUILDING, TYPICAL. PROVIDE TEMPORARY PLUG. INV=612.0. SEE BUILDING PLANS FOR CONNECTION TO DOWNSPOUTS.
10. CONNECT 6" STUB TO 12" SEWER WITH WYE FITTING, TYPICAL.

1 — 11. 15 LF 12" HDPE SEWER @ 2.67%

1 — 12. METAL END SECTION FOR 12" HDPE SEWER, I:612.0. PROVIDE TRASH/DEBRIS SCREEN ON PIPE END.

13. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY IF 18" RCP STORM STUB HAVE BEEN PROVIDED TO SITE FROM CURB INLET. IF STUB EXISTS, PROPOSED 18" RCP SHALL BE CONNECTED. IF NO STUB EXISTS, PROPOSED 18" RCP SHALL BE CONNECTED TO EXISTING CURB INLET.
14. PROVIDE PRESSURE CONNECTION FROM PROPOSED 6" WATERMAIN TO EXISTING 10" WATERMAIN.
15. FIRE DEPARTMENT CONNECTION. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. ENTRANCE TO MECHANICAL ROOM. PROVIDE A KNOX-BOX (SERIES 3200 OR 4400) WITH AN ENTRANCE KEY ON THE EXTERIOR OF THE BUILDING.
17. 45° FITTINGS FOR WATER MAIN

(f) CONFLICT TABLE:

1. I/SAN=608.8
   LOWER WM TO T/P=606.5
   SANITARY TO BE WM QUALITY
   PVC FOR DISTANCE 10' EITHER SIDE OF CROSSING.
2. T/SAN = 608.2
   I/STM = 610.0

STRUCTURE/PIPE LEGEND:

IN	–	INLET
CB	–	CATCH BASIN
MH	–	STORM MANHOLE (TYPE A)
E	–	FLARED END SECTION WITH GRATE
TD	–	TRENCH DRAIN
Vv	–	VALVE VAULT
VB	–	VALVE BOX
FH	–	FIRE HYDRANT ASSEMBLY
PC	–	PRESSURE CONNECTION
SN	–	SANITARY MANHOLE
RCP	–	REINFORCED CONRETE PIPE
PVC	–	POLYVINYL CHLORIDE PIPE
HDP	–	HIGH DENSITY POLYETHYLENE PIPE

1 — FRAME AND GRATE/LID LEGEND:
CONTRACTOR SHALL VERIFY MANUFACTURER & MODEL NUMBERS WITH PERMITTING ENTITY. EQUIVALENT CASTINGS MAY BE SUBSTITUTED FOR EJIW MODELS WITH APPROVAL OF THE PERMITTING ENTITY. ALL LIDS SHALL BE EMBROSSED WITH "STORM", "WATER", OR "SANITARY" AS APPLICABLE AND THE NAME OF THE MUNICIPALITY. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK"

STORM: EJIW 1022Z3 WITH TYPE M1 GRATE. CLOSED LID SHALL BE EJIW 105021. ALL EMBROSSED WITH "STORM" AND "VILLAGE OF ROMEOVILLE"

SANITARY: EJIW 105021 EBMROSSED WITH "SANITARY" AND "VILLAGE OF ROMEOVILLE"

WATER: EJIW 1022Z3 EMBROSSED WITH 1020A HD "WATER" AND "VILLAGE OF ROMEOVILLE"

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UTILITY PLAN

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20973

NOTES:

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF NPDES ILR10 CONSTRUCTION GENERAL PERMIT ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

1. SITE DECLARATION

THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY THAT IS THE SUBJECT OF THIS PLAN

A. THE CONSTRUCTION SITE ACTIVITIES FOR THE SITE IMPROVEMENTS WILL INCLUDE, AS NECESSARY: TOPSOIL EXCAVATION AND STOCKPILING, EARTH EXCAVATION AND THE PLACEMENT OF EMBANKMENT MATERIAL. INSTALLATION OF WATER AND SEWER UTILITIES, STORM SEWERS, AND OTHER MUNICIPAL INFRASTRUCTURE SUCH AS TELECOMMUNICATIONS, GAS AND ELECTRIC SERVICES, CURB AND GUTTER, PAVEMENT, RESPREAD OF TOPSOIL OVER ALL DISTURBED PERVIOUS AREAS, STABILIZATION OF PERVIOUS AREAS WITH SEED AND/OR OTHER LANDSCAPING MATERIALS, SOIL EROSION AND SEDIMENTATION MEASURES AND OTHER ACTIVITIES THAT MAY BE NECESSARY TO PROTECT ADJACENT AND DOWNSTREAM WATER COURSE FROM DAMAGE.

B. THE EXPECTED SEQUENCE OF ACTIVITIES THAT WILL CAUSE SIGNIFICANT DISTURBANCE AND DISRUPTION ARE AS FOLLOWS: SITE CLEARING, TOPSOIL EXCAVATION AND STOCKPILING, EARTH EXCAVATION AND RESTORATION OF DISTURBED AREAS. PRIOR TO THE COMMENCEMENT OF ANY SITE DISTURBANCE ACTIVITY, SILT FENCE, CONSTRUCTION ENTRANCE AND ANY REQUIRED DOWN-SLOPE PROTECTION MUST BE INSTALLED. ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, AS NOTED ON THE PLANS, AS CONSTRUCTION ACTIVITY PROGRESS.

C. THE ESTIMATED STORMWATER RUNOFF COEFFICIENT ARE CONTAINED IN THE PROJECT DESIGN NARRATIVE ON FILE WITH THE LOCAL AGENCY HAVING JURISDICTION OVER THIS PROJECT. INFORMATION REGARDING SOIL CLASSIFICATIONS, ESTIMATED RUNOFF AND DETAILED COMPUTATIONS FOR THE MANAGEMENT OF STORMWATER RUNOFF ARE CONTAINED IN THE PROJECT DESIGN NARRATIVE, WHICH IS INCORPORATED BY REFERENCE AND MADE A PART OF THIS PLAN.

2. CONTROLS.

THE PLAN ADDRESSES VARIOUS CONTROLS THAT MUST BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED ABOVE. FOR EACH OF THE CONTROL DEVICES BELOW, THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ITS IMPLEMENTATION. EACH CONTRACTOR HAS SIGNED THIS PLAN ACKNOWLEDGING RESPONSIBILITY FOR THE IMPLEMENTATION AND ONGOING MAINTENANCE OF THIS PLAN.

A. SOIL EROSION AND SEDIMENT CONTROLS:

1. STABILIZATION PRACTICES: EXISTING VEGETATION SHOULD BE PRESERVED AS LONG AS POSSIBLE. DISTURBED AREAS SHOULD BE STABILIZED AS SOON AS POSSIBLE. STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE LONGER THAN 14 DAYS IN AREAS WHERE CONSTRUCTION ACTIVITY WILL NOT RESUME FOR 21 DAYS OR MORE. WHERE SNOW COVER PRECLUDES STABILIZATION ACTIVITIES OR OTHER CONDITIONS PREVENT IMPLEMENTATION, STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS CONDITIONS PERMIT.

   THE FOLLOWING INTERIM AND PERMANENT STABILIZATION PRACTICES, AS A MINIMUM, SHALL BE EMPLOYED TO STABILIZE DISTURBED AREAS: PERMANENT SEEDING, VEGETATIVE FILTERS, STABILIZED CONSTRUCTION ENTRANCES, AND BARRIER FILTERS.

2. STRUCTURAL PRACTICES: THE FOLLOWING STRUCTURAL PRACTICES SHALL BE IMPLEMENTED TO THE EXTENT POSSIBLE TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM THE EXPOSED: STORM SEWER, STORM WATER CONVEYANCE CHANNELS AND PERMANENT SEEDING.

B. STORM WATER MANAGEMENT

1. THE FOLLOWING MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGE THAT MAY OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF SOME OF THESE DEVICES MAY BE SUBJECT TO THE PROVISIONS OF SECTION 404 OF THE CLEAN WATER ACT. THE PRACTICES BEING IMPLEMENTED BY THIS PLAN WERE SELECTED ON THE BASIS OF THE TECHNICAL GUIDANCE CONTAINED IN THE IEPA'S STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AS WELL AS OTHER DOCUMENTS AND ORDINANCES LISTED IN THE SPECIFICATIONS.

   THE STORM WATER POLLUTANTS CONTROL MEASURES INCLUDE: SILT FILTER FENCE, BARRIER FILTERS, AND STORM SEWER SYSTEMS.

2. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNELS, AS NECESSARY, TO ASSURE A NON-EROSIVE VELOCITY FLOW FROM ANY STRUCTURE TO A WATERCOURSE SO THAT THE NATURAL, PHYSICAL, AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS OF THE WATERCOURSE ARE MAINTAINED AND PROTECTED.

   STORM WATER MANAGEMENT CONTROL INCLUDES: RIP-RAP FOR OUTLET PROTECTION AND DITCH/CHANNEL CHECK SYSTEMS.

C. OTHER CONTROLS.

1. WASTE DISPOSAL. SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIALS, MACHINERY, TOOLS AND OTHER ITEMS SHALL BE COLLECTED AND DISPOSED OFF-SITE BY THE CONTRACTOR IN AN APPROVED MANNER. THE CONTRACTOR IS RESPONSIBLE TO ACQUIRE ANY PERMIT REQUIRED FOR SUCH DISPOSAL. BURNING ON THE SITE WILL NOT BE PERMITTED. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY APPROPRIATE PERMITS. THIS PLAN SHALL COMPLY WITH ALL APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER AND/OR SEPTIC SYSTEM REGULATIONS.

2. SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS PROVIDED BY THE CONTRACTOR A MINIMUM OF TWO TIMES PER WEEK TO AVOID OVERFLOWING AND MAINTAIN SANITARY CONDITIONS AROUND THE UNIT.

3. ALL PETROLEUM PRODUCTS STORED ON-SITE SHALL BE STORED IN APPROVED CONTAINERS. ALL FUELING SOURCES SHALL HAVE SPILL KITS IMMEDIATELY AVAILABLE.

4. CONCRETE TRUCKS SHALL NOT BE PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE. SPECIFIC AREAS FOR THIS ACTIVITY SHALL BE DESIGNATED BY THE CONTRACTOR AND PROVIDED WITH ADEQUATE FILTRATION BASINS AND OTHER FACILITIES TO ASSURE THAT DISCHARGE IS CONTAINED AND CLEANSED BEFORE ENTERING THE SITE STORM WATER SYSTEM.

5. DE-WATERING OF EXCAVATIONS AND OTHER SPACES, USING PUMPS OR OTHER MEANS, AND ALL DISCHARGES OF WATER CONTAMINATED WITH SILT OR SEDIMENT SHALL BE MOVED TO A PORTABLE OR PERMANENT SEDIMENT BASIN TO ASSURE ALL SUSPENDED SOLIDS ARE REMOVED PRIOR TO FLOWS LEAVING THE CONSTRUCTION SITE.

B. APPROVED STATE OR LOCAL PLANS.

THE MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS CONTAINED IN THIS PLAN ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, CURRENT EDITION, ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION PLAN, AND ANY GOVERNING LOCAL ORDINANCES. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION CONTROL SITE PLANS, SITE PERMITS, STORM WATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI TO BE AUTHORIZED TO DISCHARGE UNDER THIS PERMIT, INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

3. MAINTENANCE:

THE FOLLOWING PROCEDURES SHALL BE USED TO MAINTAIN, IN GOOD CONDITION, VEGETATION, EROSION AND SEDIMENTATION CONTROL MEASURES, AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND THE STANDARD SPECIFICATION.

a. STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. THIS WILL BE DONE BY TOP DRESSING WITH ADDITIONAL STONES, REMOVE AND REPLACE TOP LAYER OF STONES OR WASHING THE ENTRANCE. ADJACENT PUBLIC STREETS SHALL BE SWEPT FREQUENTLY, IF NOT DAILY, TO ELIMINATE DUST AND SEDIMENTS.

b. VEGETATIVE EROSION CONTROL MEASURES: THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTER, ETC. SHALL BE MAINTAINED PERIODICALLY AND SUPPLY ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEEDED AS NECESSARY.

c. INLET FILTERS: THE SEDIMENTS SHALL BE REMOVED WHEN 50 PERCENT OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY THE SEDIMENT.

d. SILT FILTER FENCE AND STRAW BALE BARRIER FILTERS: ANY DAMAGED AREAS SHALL BE REPAIRED TO MEET THE ORIGINAL DESIGN INTENT OR REMOVED AND REPLACED AS NECESSARY.

e. RIP-RAP OUTLET PROTECTION: IT SHALL BE INSPECTED AFTER HIGH FLOWS FOR ANY SCOUR BENEATH THE RIP-RAP OR FOR STONES THAT HAVE BEEN DISLODGED. IT SHALL BE REPAIRED IMMEDIATELY.

4. INSPECTIONS.

UNLESS OTHERWISE DIRECTED BY THE OWNER, THE CONTRACTOR, OR CONTRACTOR'S REPRESENTATIVE SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.

A. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS AND ADJACENT PROPERTIES. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.

B. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION 1 ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION 2 ABOVE SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTIONS SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4.b SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION. THE REPORT SHALL BE SIGNED BY THE CONTRACTORS DESIGNATED "QUALIFIED INDIVIDUAL" AND COPIES FORWARDED TO THE ENGINEER AND OWNER.

D. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE SHALL COMPLETE AND FILE AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION. THE CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH THE GENERAL PERMIT. THE REPORT SHALL BE MAILED TO THE FOLLOWING ADDRESS, WITH COPIES SENT TO THE OWNER AND ENGINEER:
IEPA – DIVISION OF WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION
POST OFFICE BOX 19276
SPRINGFIELD, IL 62794-9276

5. NON-STORM WATER DISCHARGES.

EXCEPT FOR FLOWS FROM FIRE-FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH THE ACTIVITY ADDRESSED IN THIS PLAN ARE AS FOLLOWS:

A. WATER MAIN FLUSHING
B. FIRE HYDRANT FLUSHING
C. WATERING FOR DUST CONTROL
D. IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH FOR SEEDING, ETC..
E. UNCONTAMINATED GROUNDWATER (FROM DE-WATERING ACTIVITIES)

THE POLLUTION MEASURES SPECIFIED IN THE PLAN SHALL BE IMPLEMENTED FOR NON-STORM WATER COMPONENTS OF THE DISCHARGE EXCEPT THAT EROSION DUE TO IRRIGATION OF SEEDING SHALL BE CONSIDERED MINOR.

6. GENERAL NOTES

A. ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.

B. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.

C. MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.

D. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.

E. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.

F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE.

G. IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS.

H. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUCH AS BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY.

I. ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".

J. A NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO THE NPDES PERMITTING AUTHORITY AND POSTMARKED AT LEAST 30 DAYS BEFORE COMMENCEMENT OF ANY WORK ON-SITE FOR ALL CONSTRUCTION SITES OVER ONE ACRE. INCLUDED IN THE NOI SHALL BE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), WHICH INCLUDES THE APPROPRIATE BMP'S TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.

K. AN INCIDENT OF NON-COMPLIANCE (ION) MUST BE COMPLETED AN SUBMITTED TO THE IEPA IF, AT ANY TIME, AN EROSION OR SEDIMENT CONTROL DEVICE FAILS.

L. A NOTICE OF TERMINATION (NOT) MUST BE COMPLETED AND SUBMITTED TO THE IEPA WHEN ALL PERMANENT EROSION CONTROL MEASURES ARE IN PLACE WITH A 70% ESTABLISHMENT OF VEGETATION.

M. DUST CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 107.36 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. APPROPRIATE MEASURES INCLUDE SPRINKLING/IRRIGATION, VEGETATIVE COVER, OR MULCH.

N. WEEKLY NPDES INSPECTION REPORTS (AND THOSE REQUIRED AFTER ½" OF RAINFALL) SHALL BE SENT VIA EMAIL TO NPDES@ ROMEOVILLE.ORG.

7. SITE SPECIFIC INFORMATION

SITE AREA = 1.59 ACRES
DISTURBED AREA = 0.56 ACRES
RECEIVING WATERS = DesPLAINES RIVER

8. SEQUENCE OF EVENTS AND ESTIMATED CONSTRUCTION SCHEDULE:

1. INSTALL TEMPORARY EROSION CONTROL: AUGUST 1, 2021
2. EARTH EXCAVATION/ROUGH GRADING: AUGUST 2, 2021
3. INSTALL CURB AND AGGREGATE BASE SEPTEMBER 1, 2021
4. PAVING SEPTEMBER 15, 2021
5. SEEDING & LANDSCAPING OCTOBER 1, 2021
6. 70% ESTABLISHMENT OF VEGETATION NOVEMBER 1, 2021
6. REMOVE TEMPORARY EROSION CONTROL NOVEMBER 1, 2021

ESTIMATED SCHEDULE SHOWN FOR REFERENCE ONLY. ACTUAL DATES WILL BE DETERMINED BY CONTRACTOR BASED UPON MULTIPLE FACTORS. ESTIMATED THAT CLEARED AREAS MAY BE EXPOSED FOR APPROXIMATELY 45 DAYS.

9. LONG TERM (POST CONSTRUCTION) MAINTENANCE

COMPONENTS OF THE STORMWATER MANAGEMENT FACILITIES, STORMWATER COLLECTION SYSTEM, AND LANDSCAPED/VEGETATED AREAS SHALL BE INSPECTED PERIODICALLY BETWEEN MARCH AND NOVEMBER, AS NECESSARY, TO ENSURE PROPER PERFORMANCE. AT A MINIMUM THE FOLLOWING MEASURES SHALL BE TAKEN TO ENSURE THE SYSTEMS OPERATE AS DESIGNED AND THE DESIGN VOLUME OF ANY DETENTION FACILITIES ARE MAINTAINED:

A. LITTER AND DEBRIS SHALL BE CONTROLLED THROUGHOUT THE SITE.
B. LANDSCAPE AREAS SHALL BE MAINTAINED WITH REGULAR MOWING AND RESTORED WITH APPROPRIATE SEEDING/VEGETATION AS NECESSARY.
C. RIPRAP AREAS SHALL BE REPAIRED WITH THE ADDITION OF NEW RIPRAP, AS NECESSARY, OF SIMILAR SIZE AND SHAPE.
D. INSPECT ANY SIDE SLOPE/EMBANKMENTS IN DETENTION BASIN OR ALONG FLOW ROUTE FOR SETTLEMENT AND EROSION AND REPAIR AS NECESSARY.
E. ENSURE NO OBSTRUCTIONS ARE BLOCKING THE EMERGENCY OVERFLOW WEIR.
F. INSPECT THE RESTRICTOR MANHOLE TO ENSURE SEDIMENT OR DEBRIS IS NOT BLOCKING RESTRICTORS AND OUTLET PIPES.
G. INSPECT ALL DETENTION AND VOLUME CONTROL FACILITIES TO ENSURE THE CONSTRUCTED VOLUME IS MAINTAINED. NO SEDIMENT, TOPSOIL, OR OTHER DUMPING INTO THE FACILITY SHALL BE ALLOWED. ANY ACCUMULATED SEDIMENT SHALL BE DREDGED AS NECESSARY TO RESTORE THE REQUIRED STORAGE VOLUME.
H. INSPECT STORM INLETS/CATCH BASINS/MANHOLES/CULVERTS FOR ACCUMULATED SEDIMENT AND REMOVE SEDIMENT AS NECESSARY.
I. REMOVE ACCUMULATED LEAVES AND OTHER DEBRIS FROM STORM SEWER INLET GRATES, AS NECESSARY.
J. NATIVE PLANTING AREAS OR STORM WATER SEED MIX AREAS SHALL BE MAINTAINED PER THE APPROVED PLANTING PLAN.

SOIL PROTECTION CHART

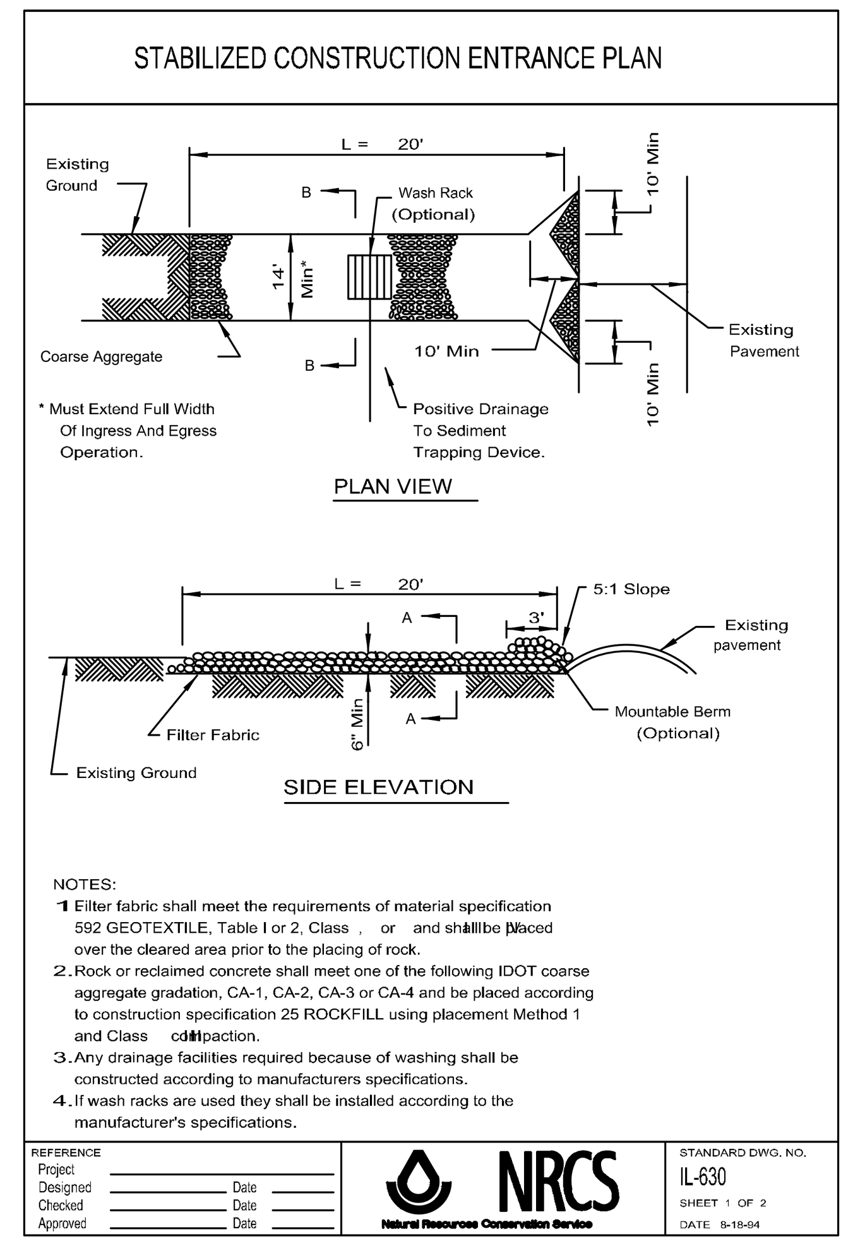
STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A →	→	→	* →	* →	→	→			
DORMANT SEEDING	B →	→	→								B →	→
TEMPORARY SEEDING			C →	→	→	→	D →	→	→			
SODDING			E** →	→	→	→	→	→	→			
MULCHING	F →	→	→	→	→	→	→	→	→	→	→	→

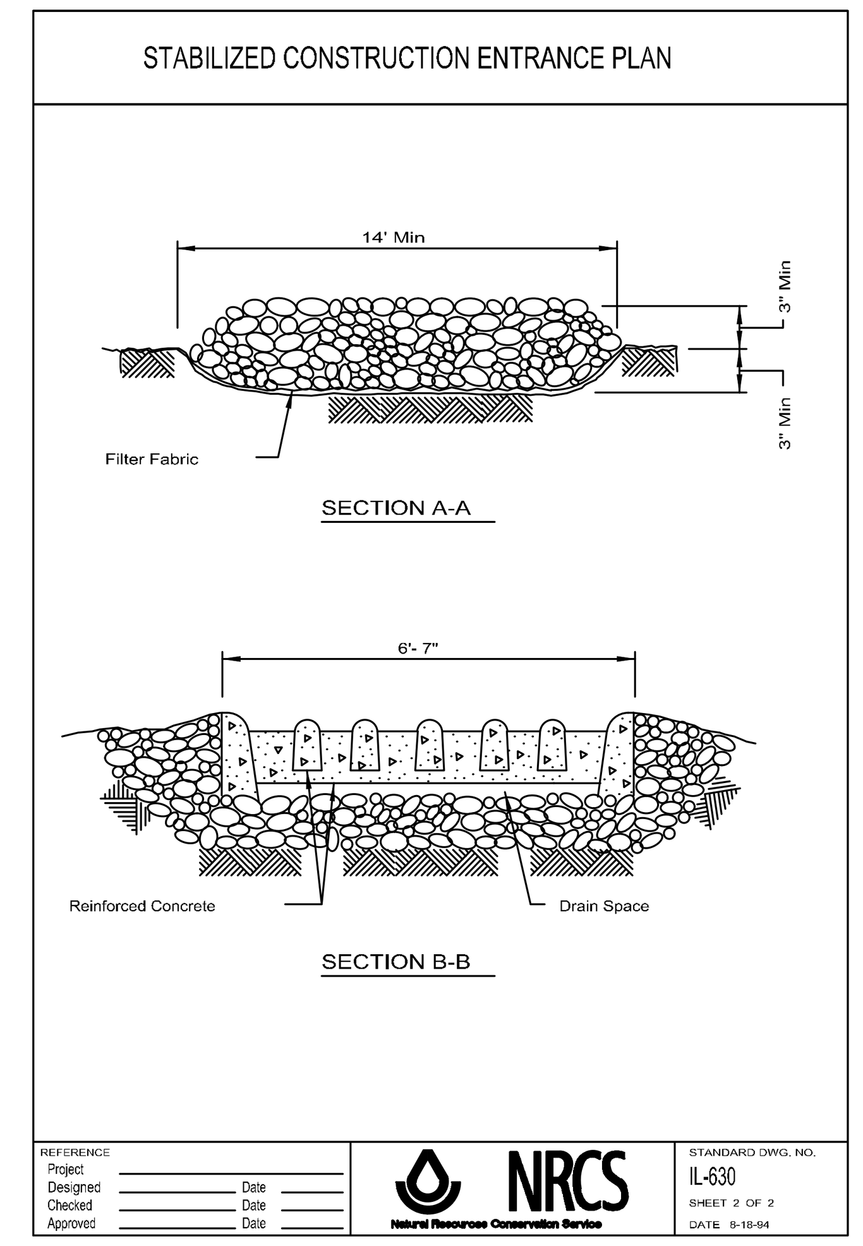
A. KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED W/ PERENNIAL RYE GRASS 30 LBS/ACRE
B. KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED W/ PERENNIAL RYE GRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE.
C. SPRING OATS 100 LBS/ACRE
D. WHEAT OR CEREAL RYE 150 LBS/ACRE
E. SOD
F. STRAW MULCH 2 TONS/ACRE

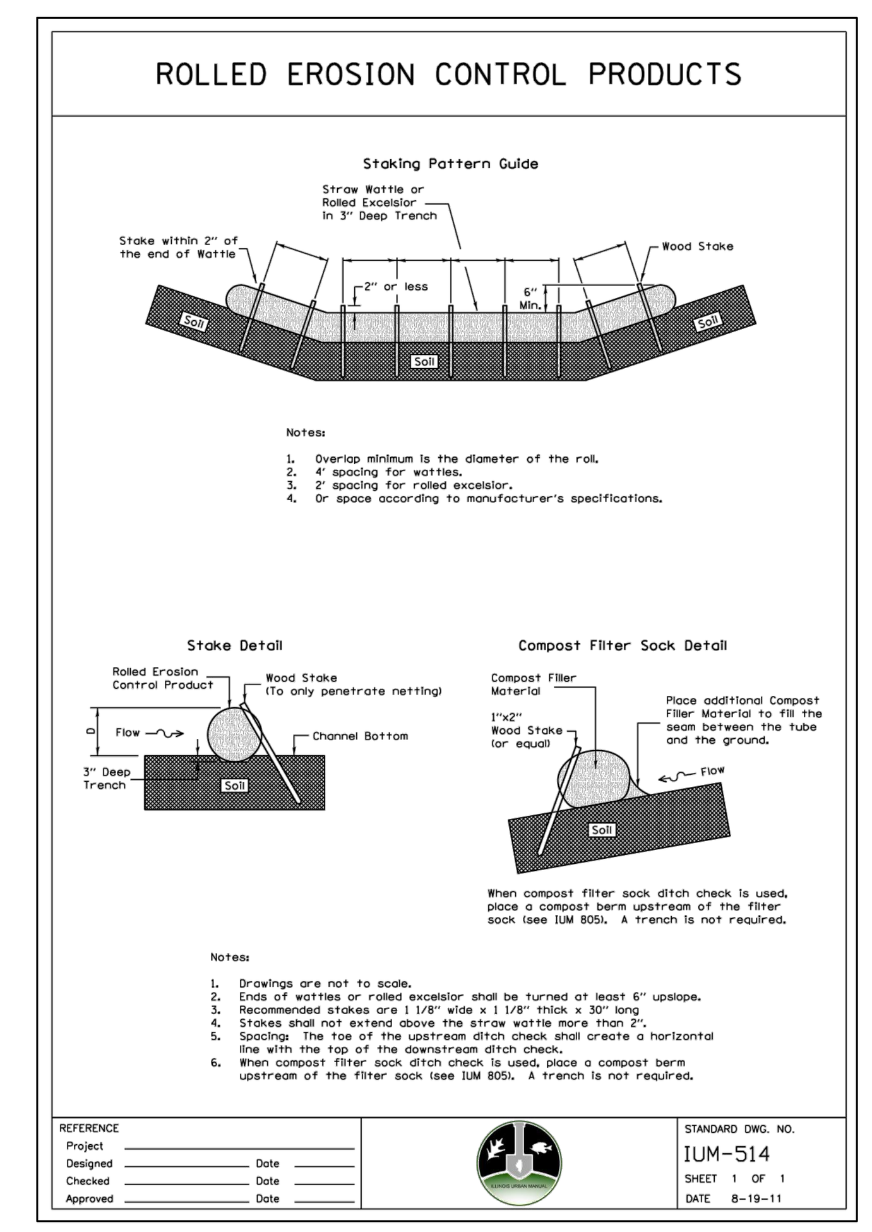
* IRRIGATION NEEDED DURING JUNE AND JULY.
** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING.
*** MOW LAWNS AS NECESSARY.

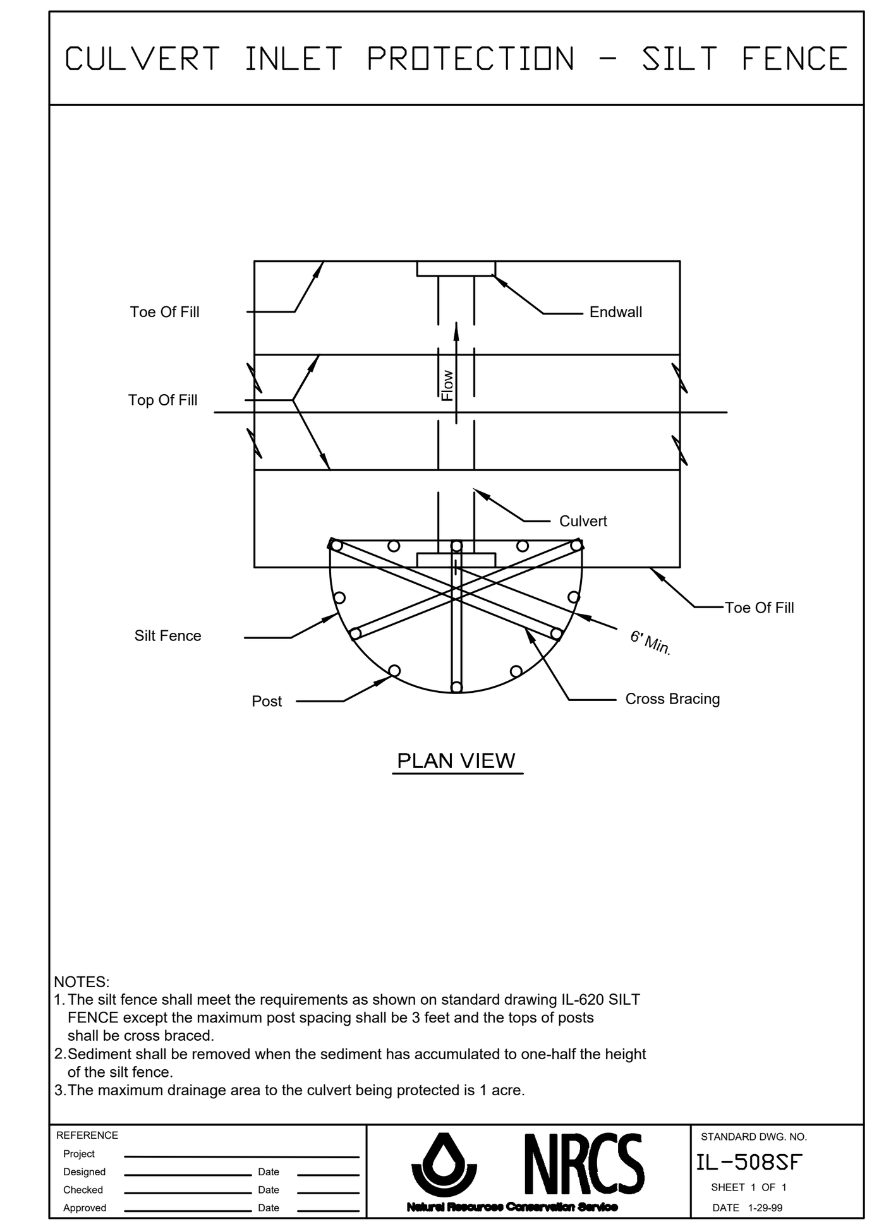
RIP-RAP DIMENSION TABLE

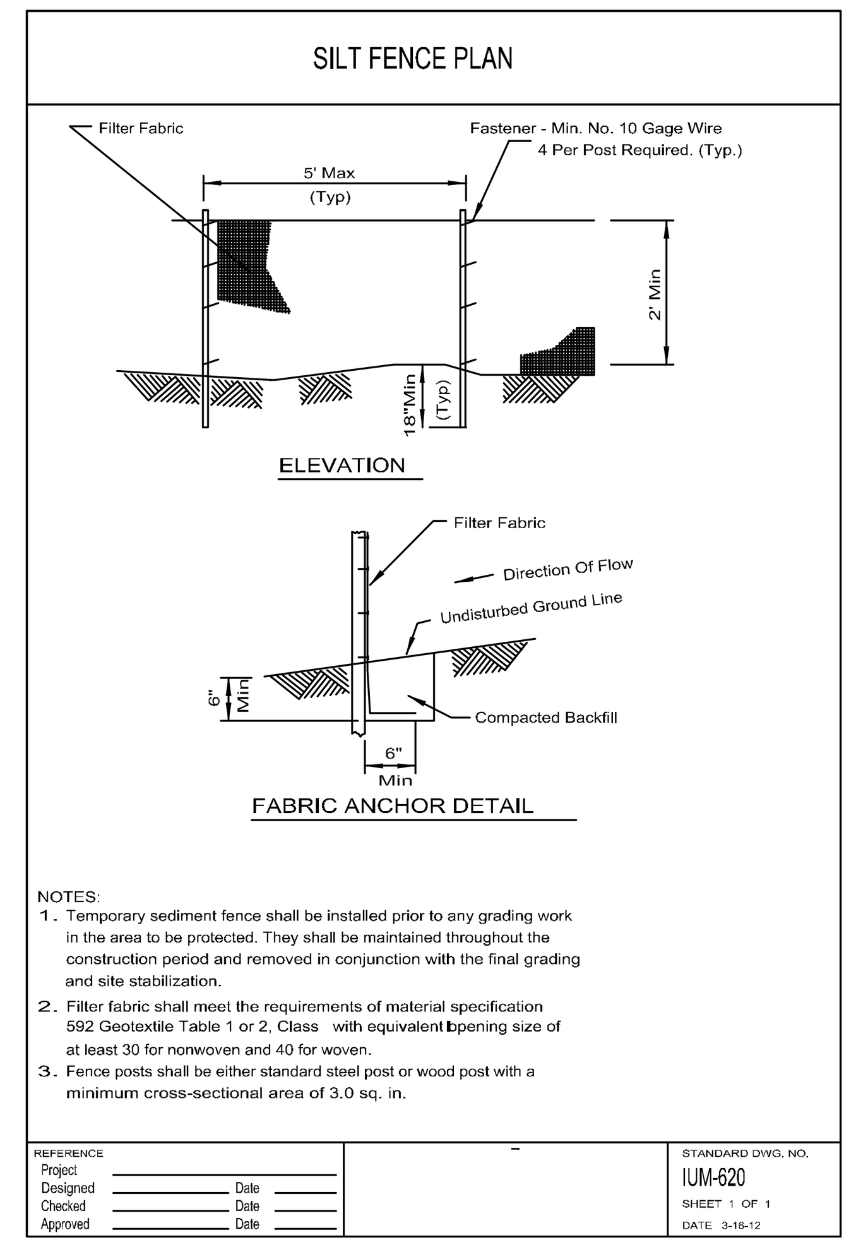
PIPE DIAMATER D (IN)	IDOT ROCK GRADATION	APRON WIDTH, W1(FT) 3D	APRON WIDTH, W2(FT) 3D+L	APRON LENGTH, L(FT)	DEPTH OF RIP RAP Y (IN)
12	RR3	3.00	13.00	10	15
15	RR3	3.75	15.75	12	15
18	RR3	4.50	18.50	14	15
21	RR3	5.25	20.25	15	15
24	RR3	6.00	22.00	16	15
27	RR3	6.75	23.75	17	15
30	RR3	7.50	25.50	18	15
36	RR4	9.00	29.00	20	20
42	RR4	10.50	32.50	22	20
48	RR4	12.00	36.00	24	20
54	RR5	13.50	41.50	28	28
60	RR5	15.00	47.00	32	28
72	RR6	18.00	58.00	40	32

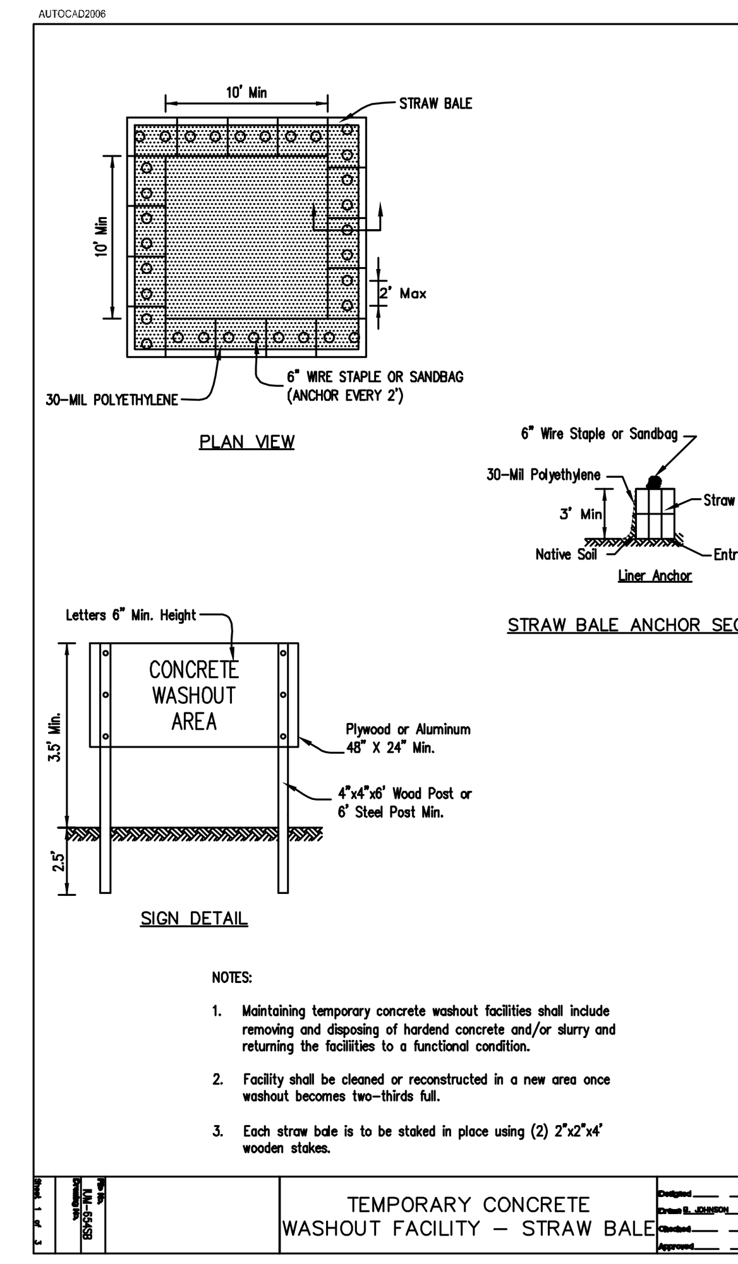


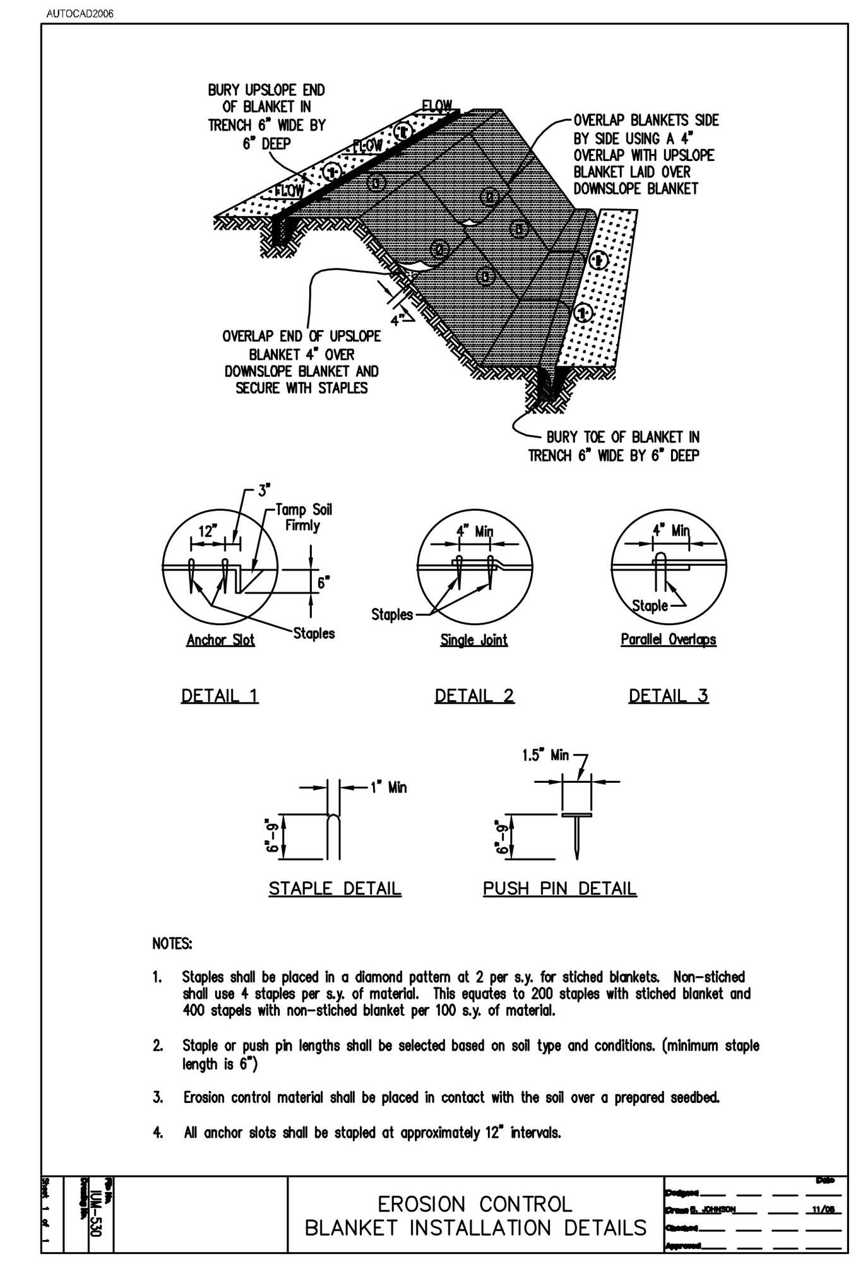


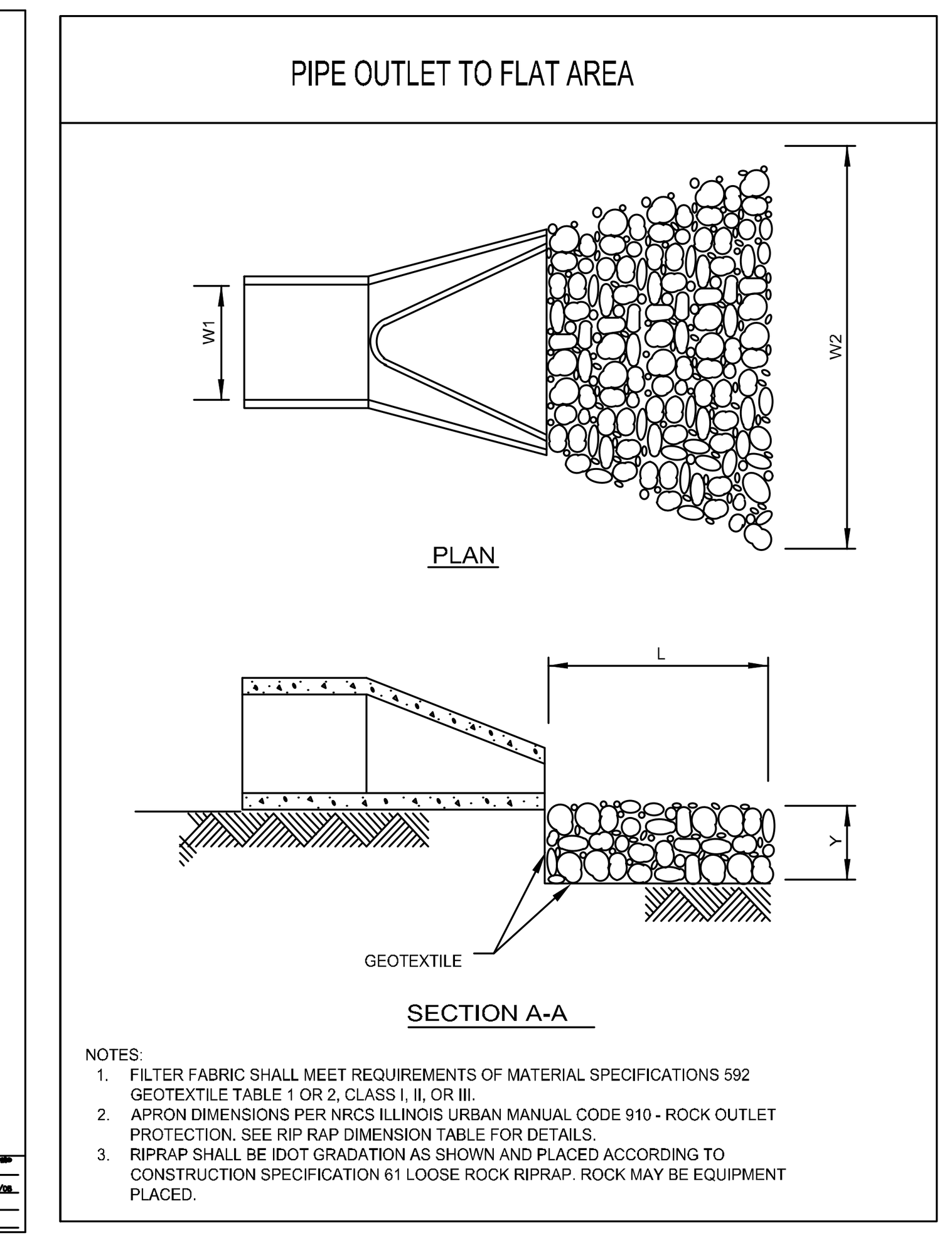


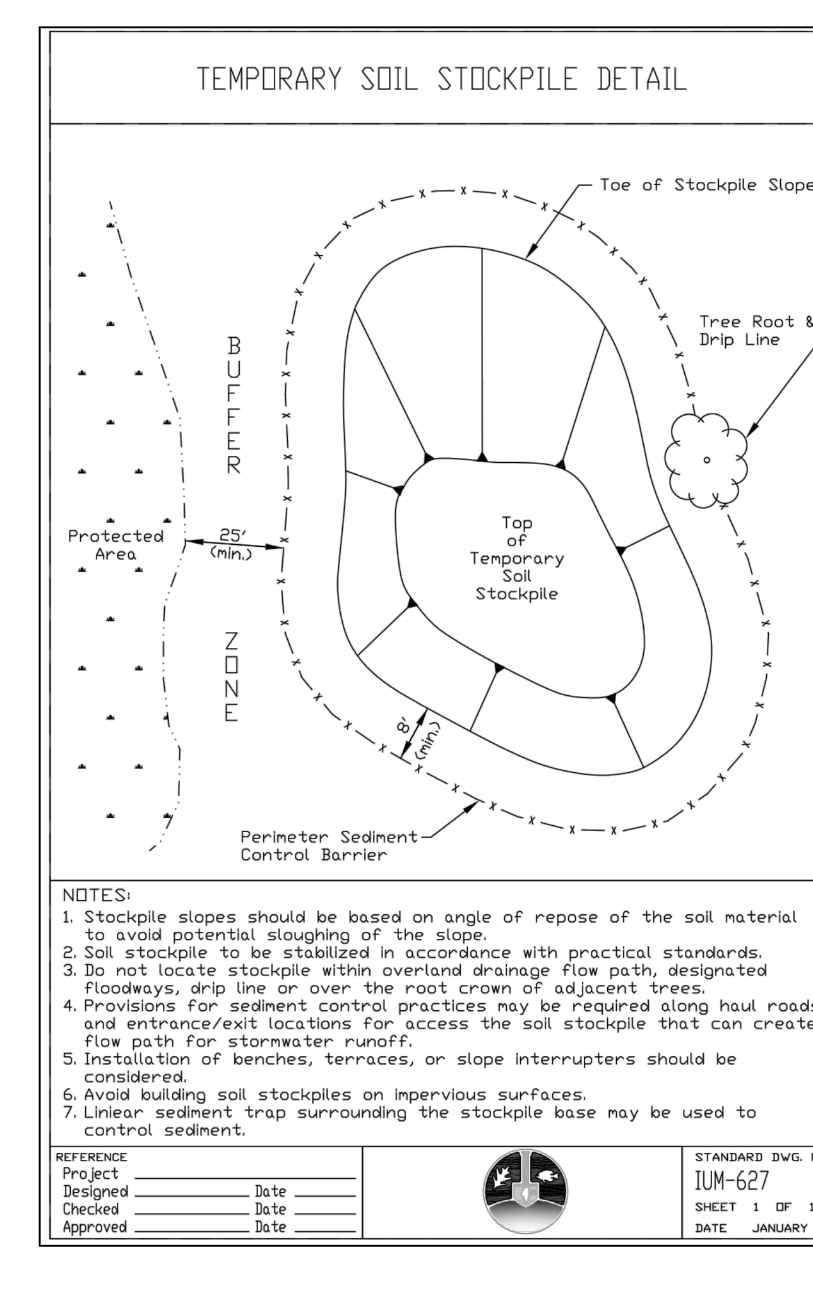


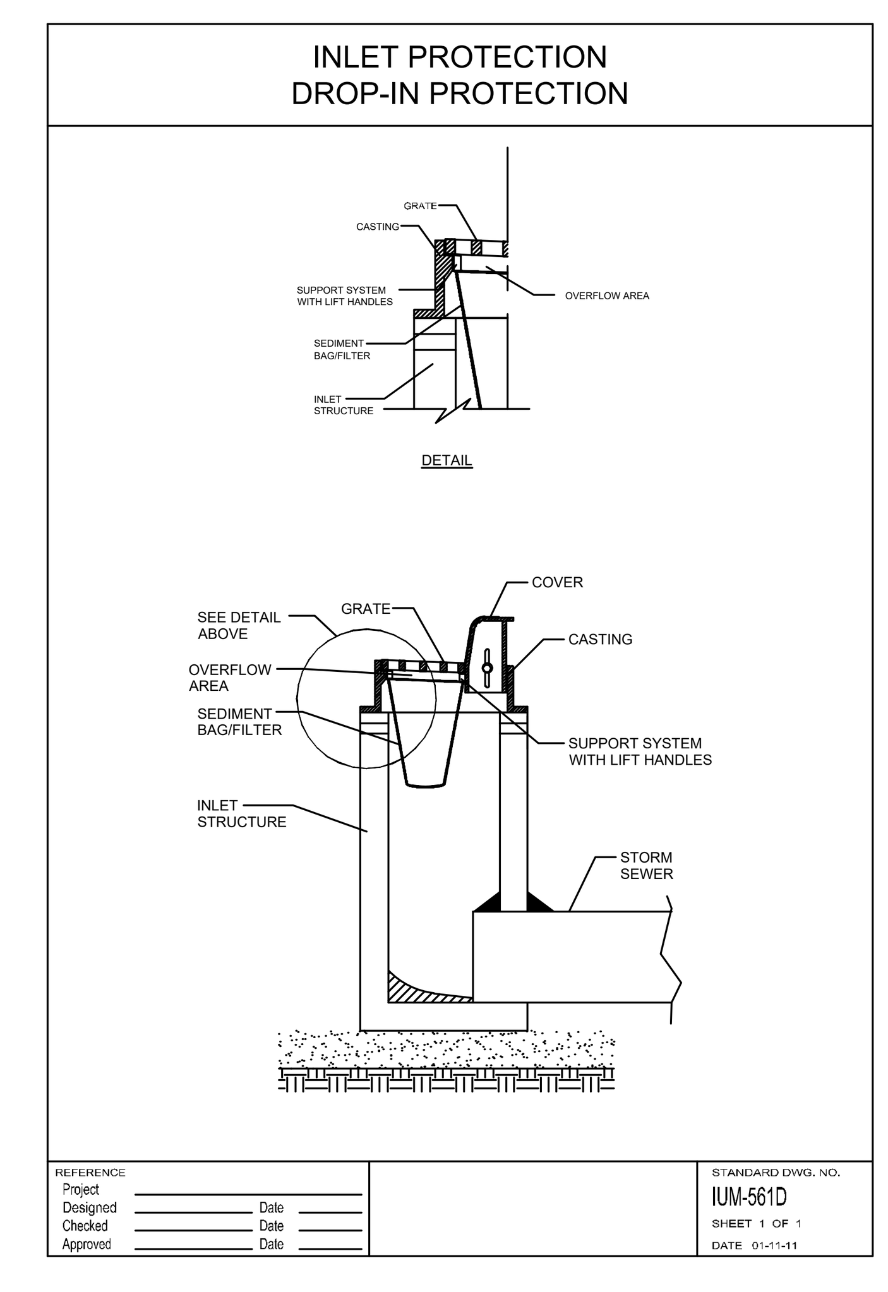












CONTACT INFORMATION:

GENERAL CONTRACTOR:
MILLER ARCHITECTS & BUILDERS, LLC
3335 W. ST. GERMAIN STREET
ST. CLOUD, MN 56302
ATTN: MIKE DUBKSY
320-251-4109

OWNER:
CARE CREMATION CENTER, LLC
515 ANDERSON DRIVE
ROMEOVILLE, IL 60446
ATTN: JOHN HANN
815-301-3800

DATE	REV	REVISION
8-16-21	1	VILLAGE REVIEW #1
6-30-21		ISSUED FOR PERMIT

STORM WATER POLLUTION PREVENTION PLAN
DRAWN BY: NW JOB: 20973
CHECKED BY: TC DATE: 6/22/2021

CARE CREMATION CENTER
33 EAST MONTROSE DRIVE
ROMEOVILLE, IL

GEOTECH INC.
CONSULTING ENGINEERS – LAND SURVEYORS
1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010

20973
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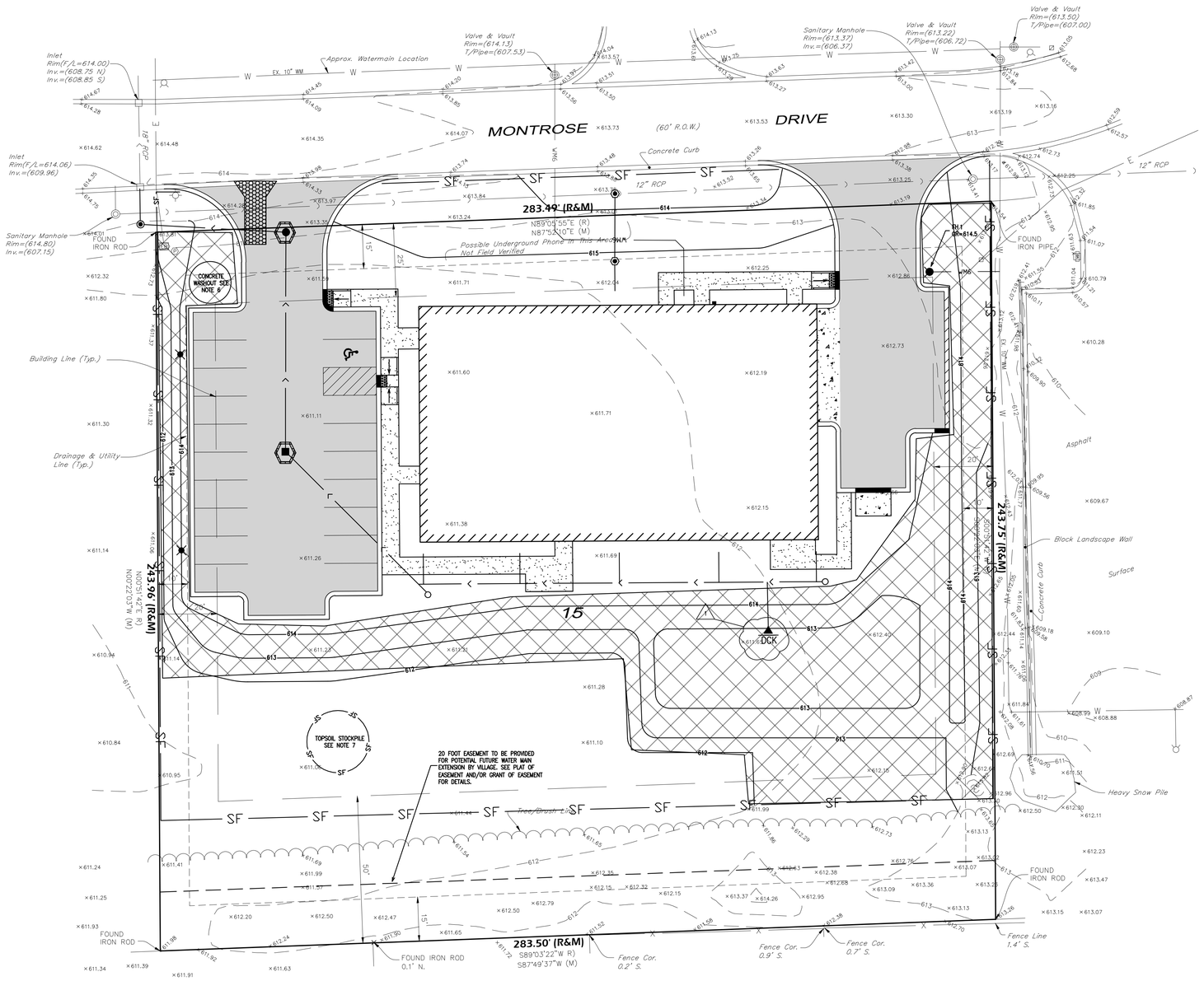

GRAPHIC SCALE 1"=20'

0 5 10 20 40

LEGEND

- INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- SF — SILT FENCING
- DCK — DITCH CHECK – COIR LOG
- PROVIDE EROSION CONTROL BLANKET FOR SEEDED AREAS EXCEEDING 12% SLOPES

NOTES:

1. APPROPRIATE EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AND MAINTAINING ADJACENT ROADWAYS TO BE CLEAN AND FREE OF DIRT AND DEBRIS AT ALL TIMES.
4. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE, INSPECTION, AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
5. REFER TO THE STORMWATER POLLUTION PREVENTION PLAN FOR DETAILS AND ADDITIONAL INFORMATION.
6. LOCATION OF TEMPORARY CONCRETE WASHOUT FACILITY, IF NECESSARY, TO BE DETERMINED BY CONTRACTOR PER DETAIL ON STORMWATER POLLUTION PREVENTION PLAN.
7. LOCATION OF TEMPORARY TOPSOIL OR MATERIAL STOCKPILE, IF NECESSARY, TO BE DETERMINED BY CONTRACTOR. SILT FENCING TO BE PROVIDED AROUND PERIMETER OF ANY STOCKPILES, SEE DETAIL.
8. UNLESS OTHERWISE DIRECTED BY THE CLIENT, CONTRACTOR SHALL COORDINATE WITH OWNER/DEVELOPER REGARDING INSPECTIONS AND RECORD KEEPING REQUIRED AS PART OF THE NPDES PERMIT FOR RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

EROSION CERTIFICATE

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

THOMAS CARROLL, P.E.
ILLINOIS PE #062-052783
EXPIRES 11-30-2021

6/10/2021
DATE

REV	DATE	REVISION
1	8-16-21	VILLAGE REVIEW #1
	6-30-21	ISSUED FOR PERMIT

EROSION CONTROL PLAN

DRAWN BY: NW
CHECKED BY: TC

JOB: 20973
DATE: 6/22/2021

CARE CREMATION
33 EAST MONTROSE DRIVE
ROMEOVILLE, IL

GEOTECH INC.
CONSULTING ENGINEERS – LAND SURVEYORS
1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010

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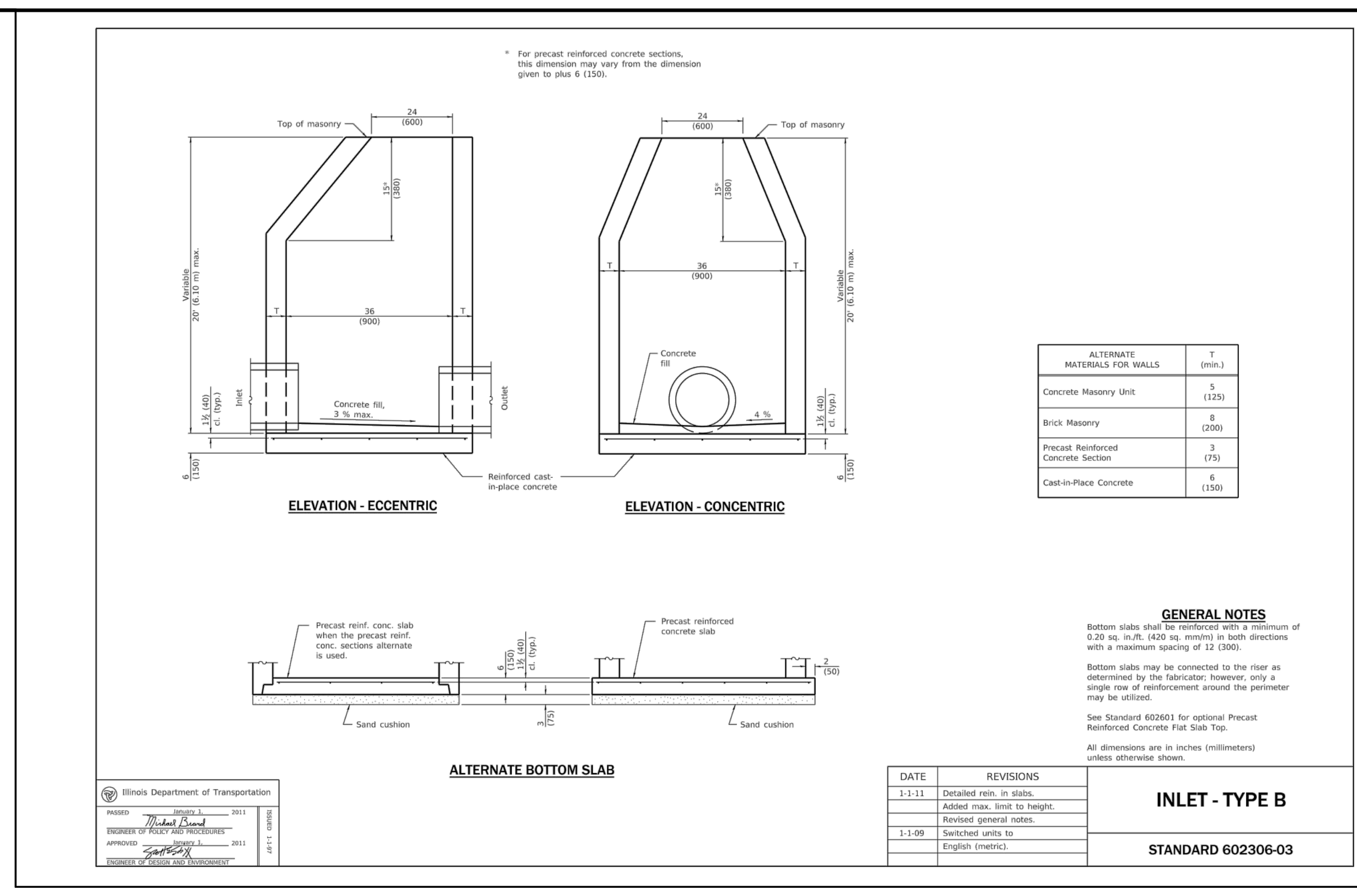
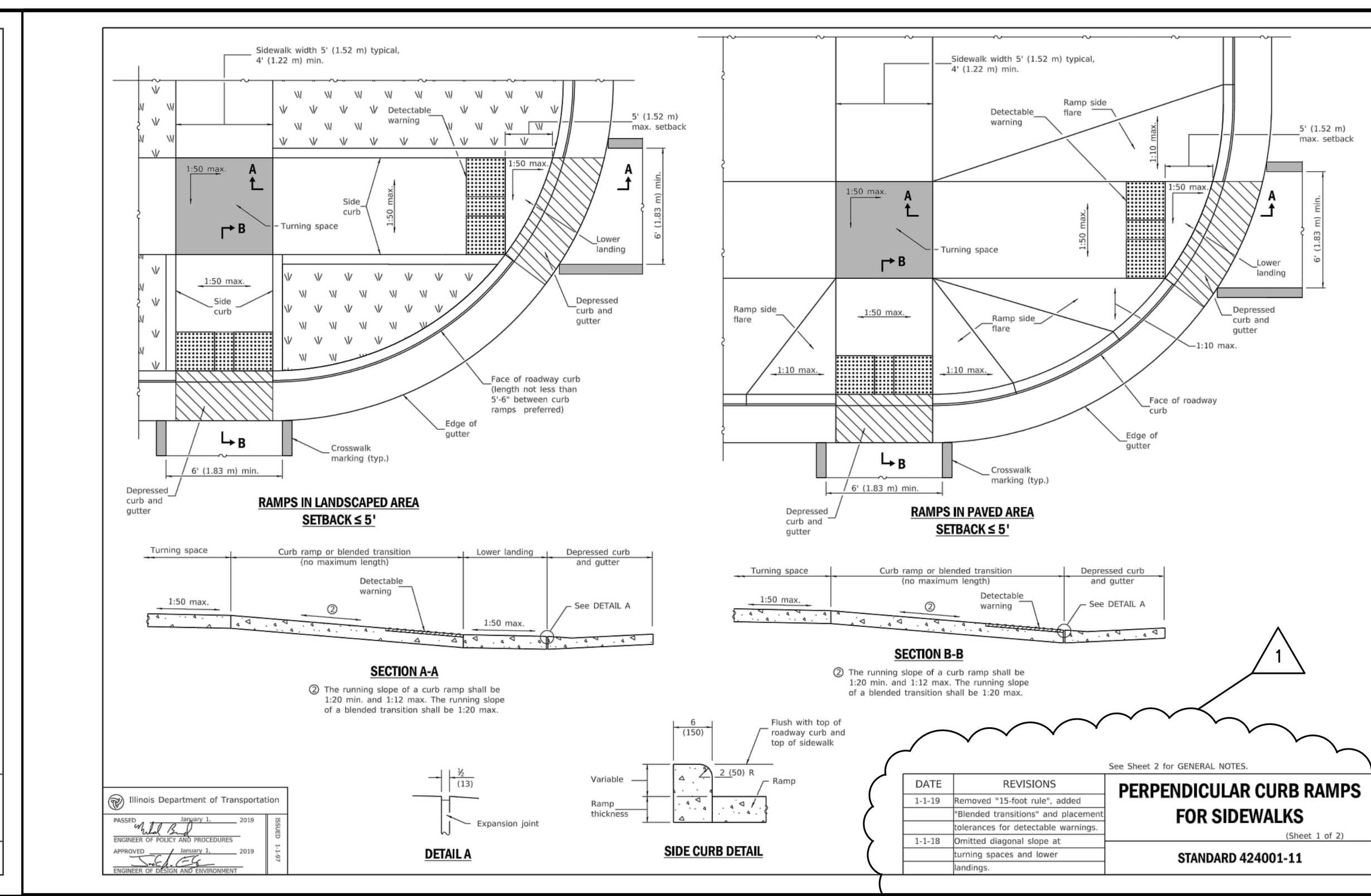
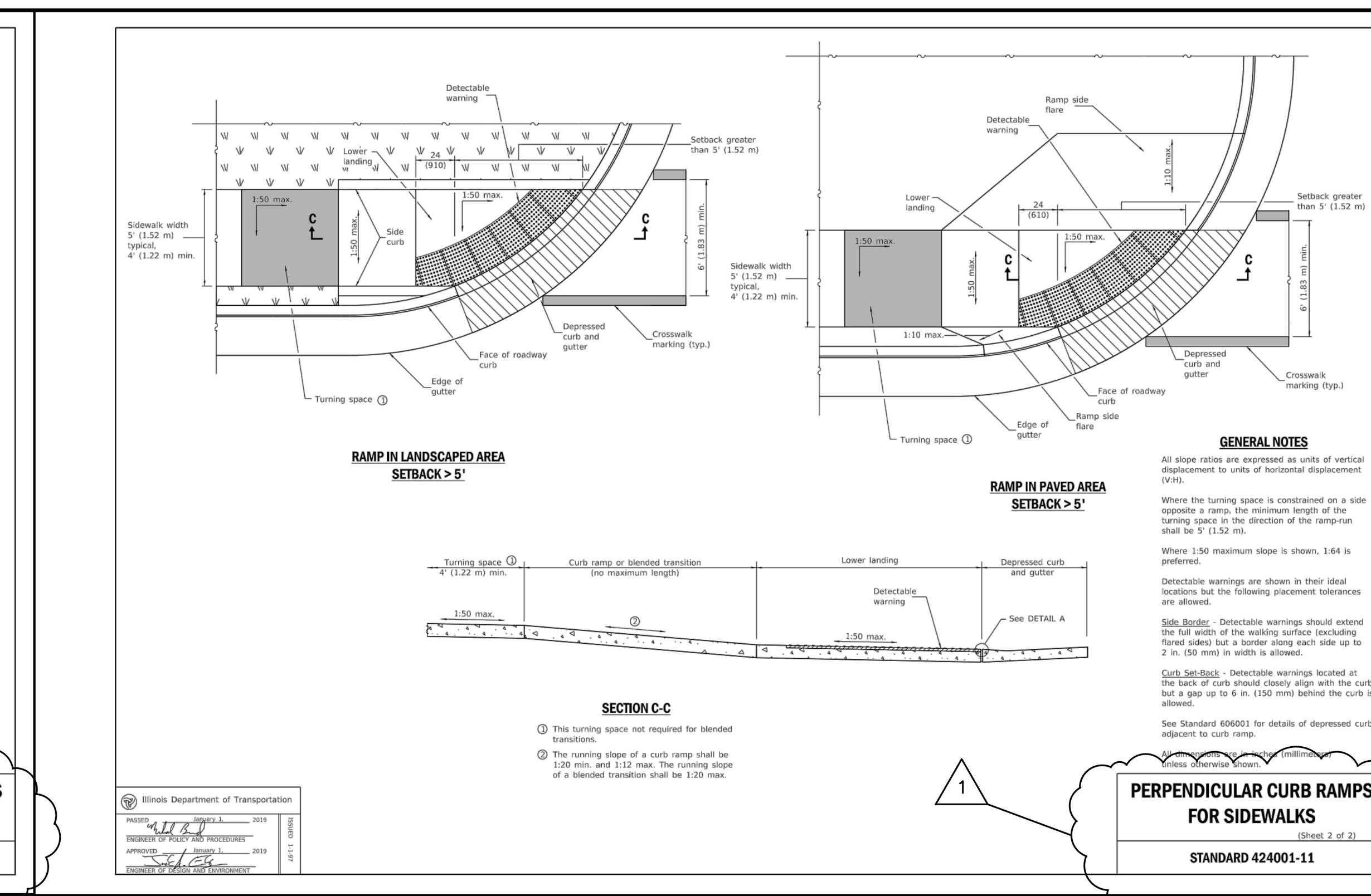
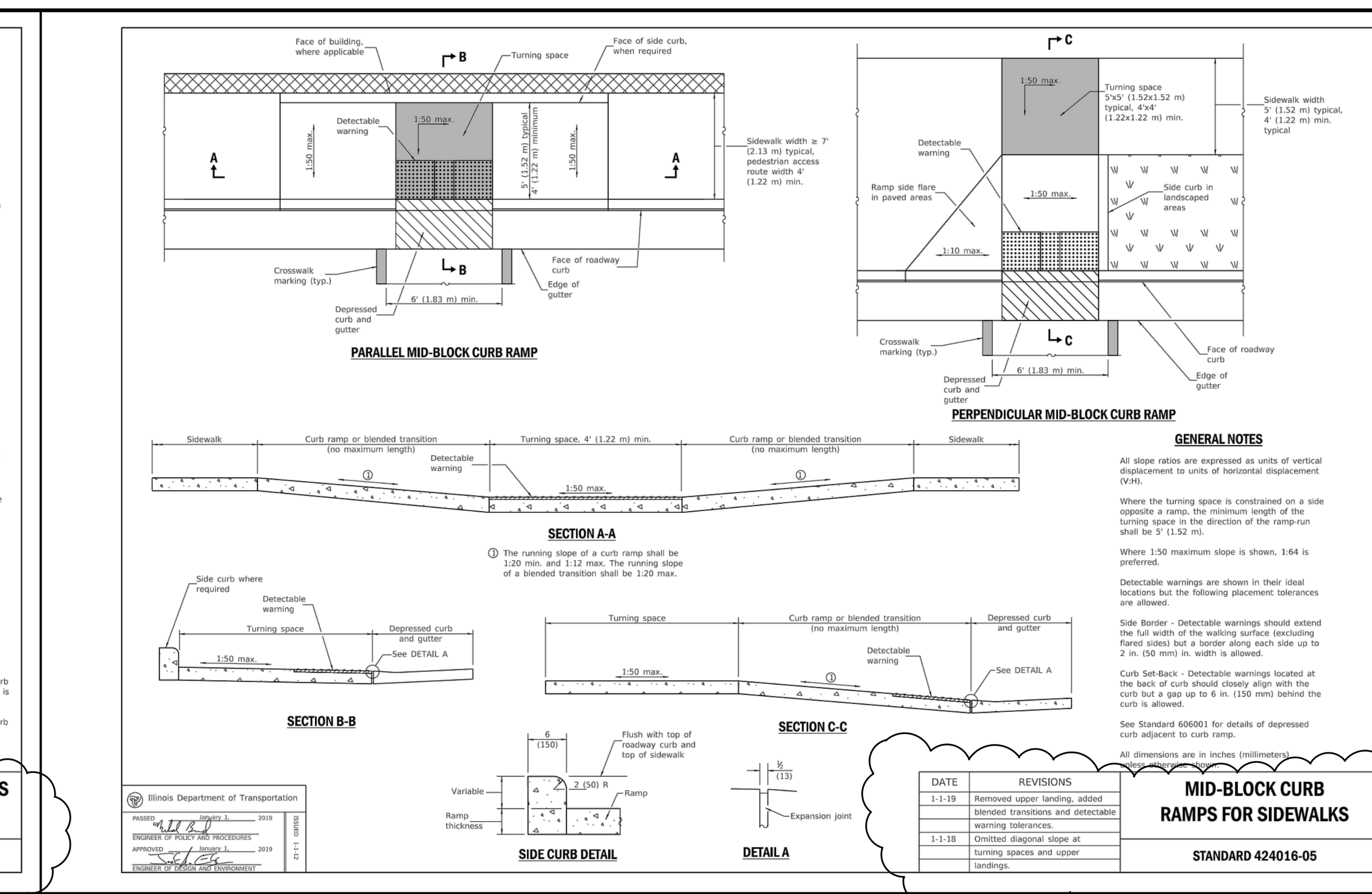
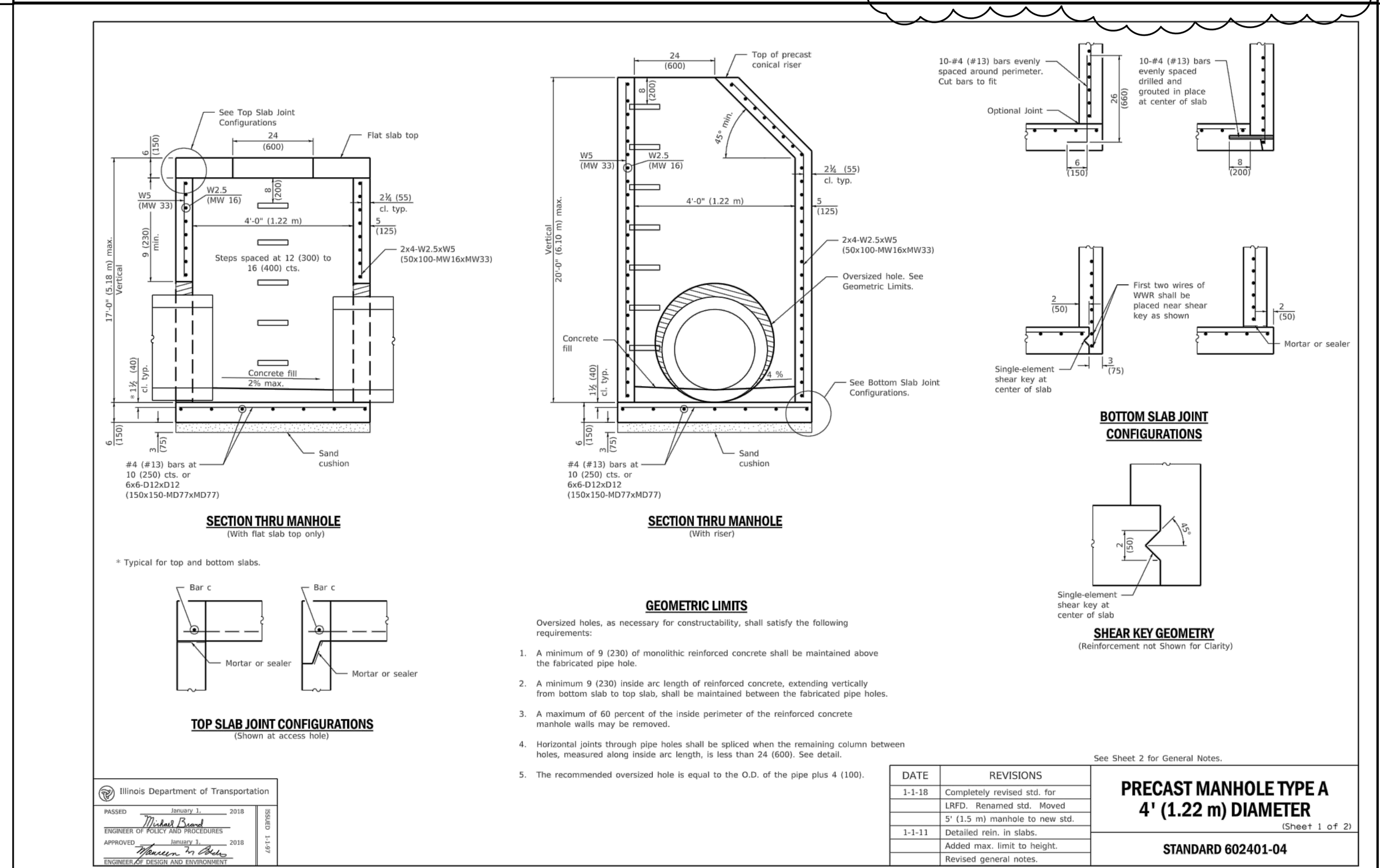
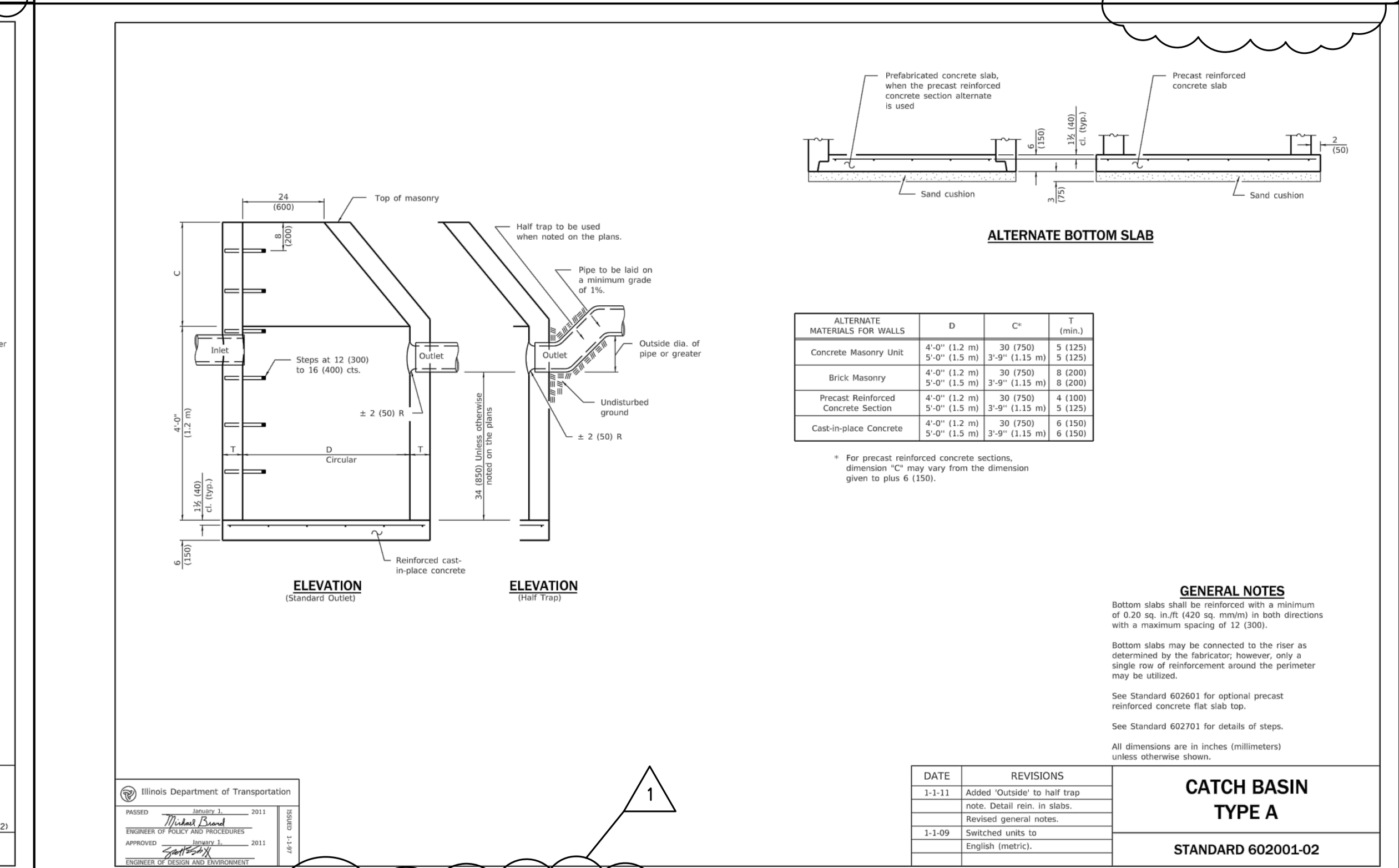


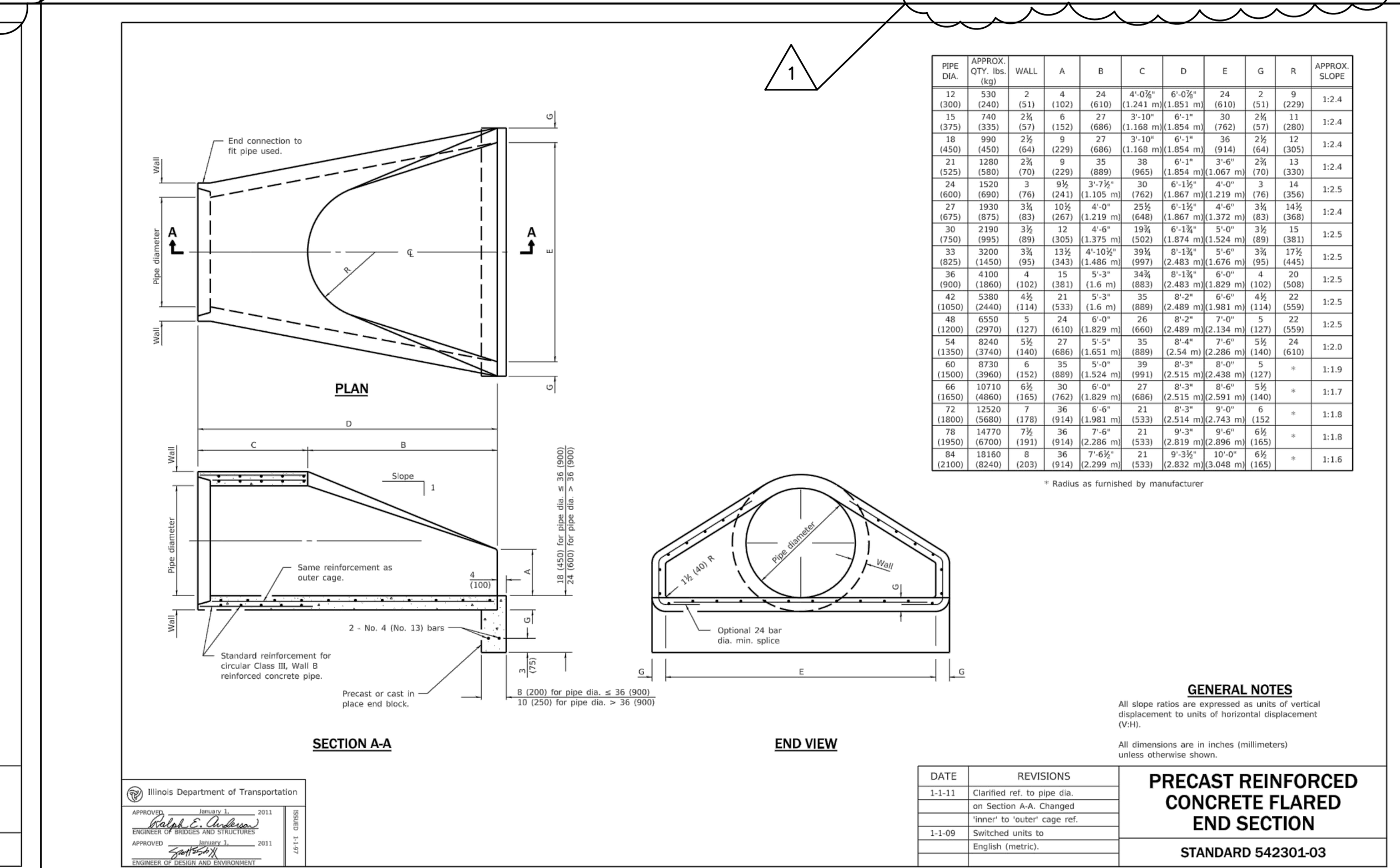


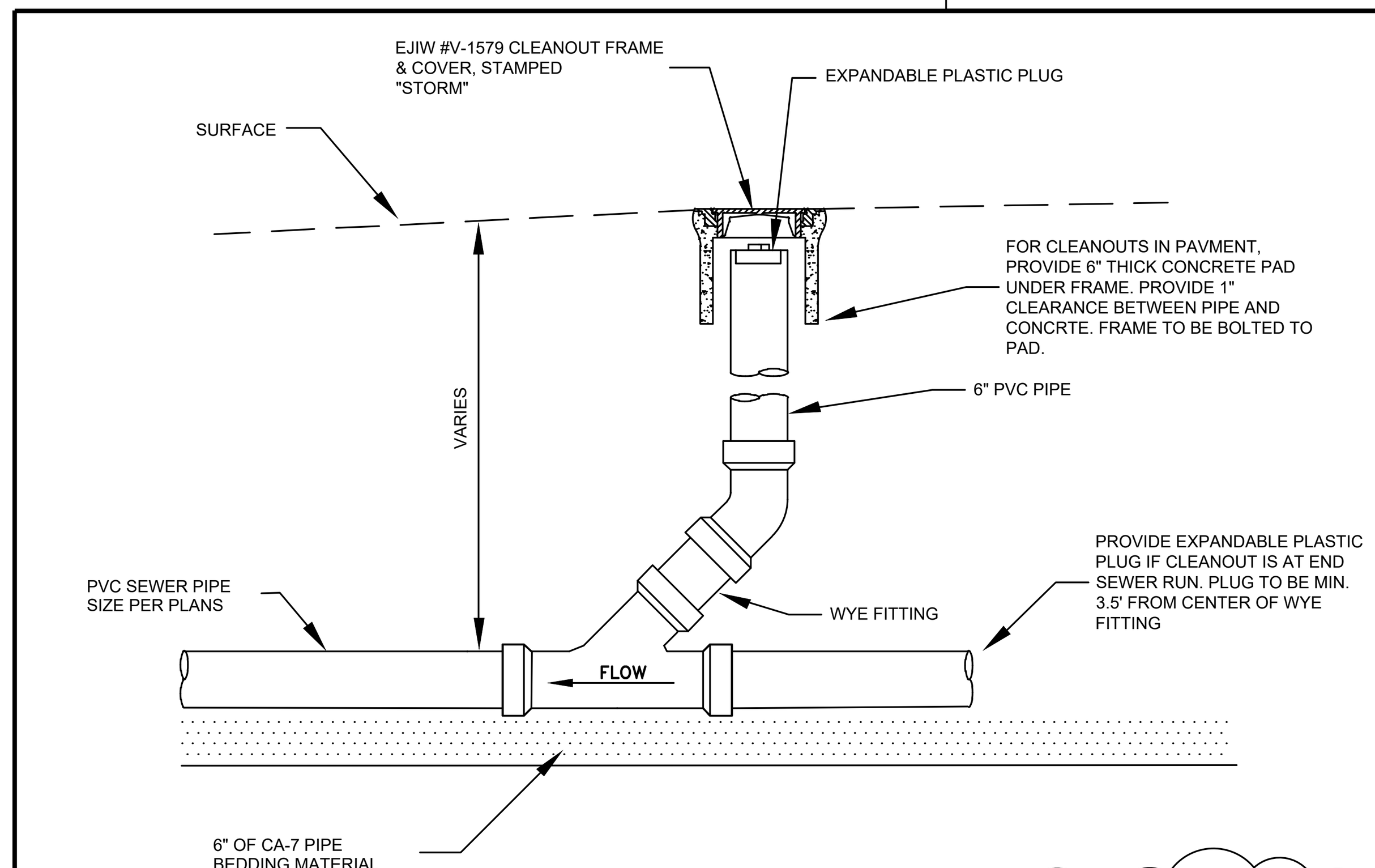




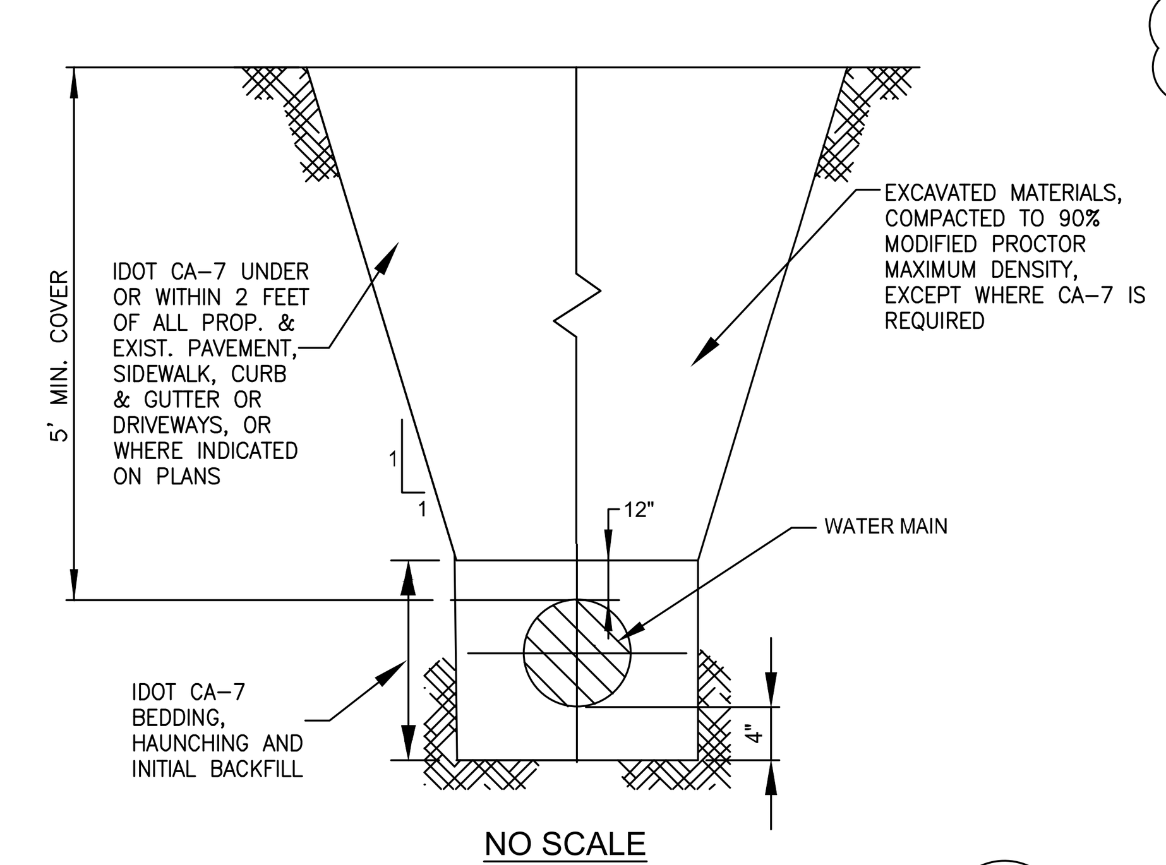






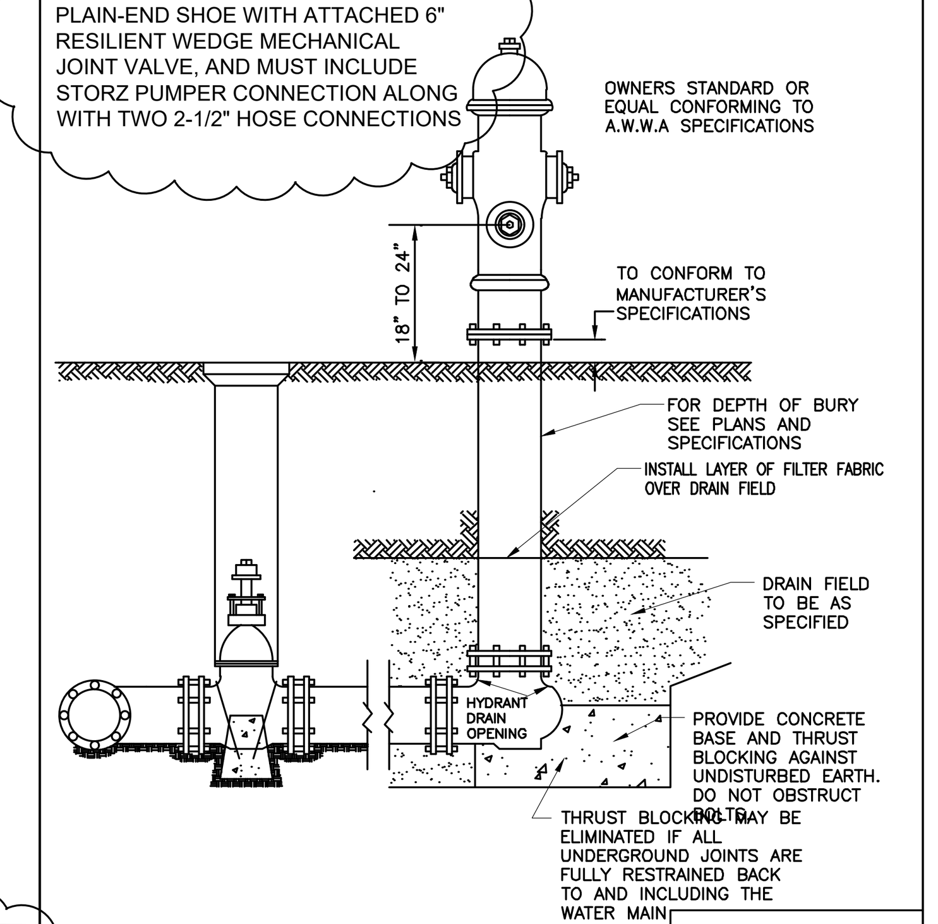


STANDARD DETAIL
FOR
SANITARY CLEANOUT



TYPICAL WATERMAIN
DETAIL

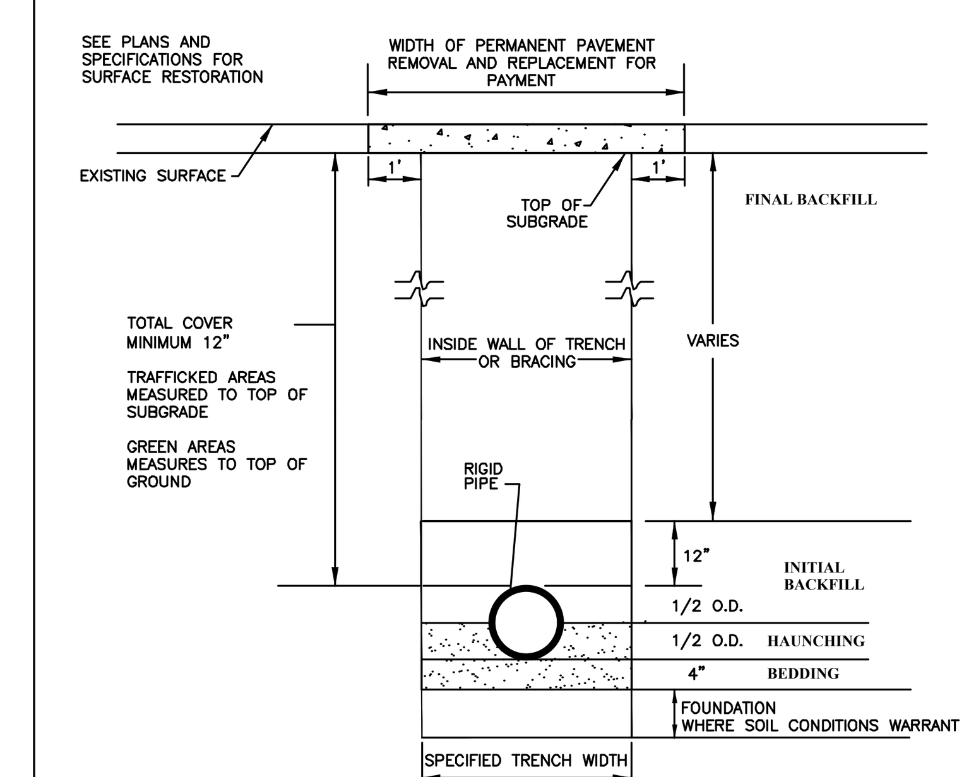
HYDRANTS SHALL BE EAST JORDAN WATER MASTER 5BR250 WITH 6" PLAIN-END SHOE WITH ATTACHED 6" RESILIENT WEDGE MECHANICAL JOINT VALVE, AND MUST INCLUDE STORZ PUMPER CONNECTION ALONG WITH TWO 2-1/2" HOSE CONNECTIONS



NOTE: CONCRETE BASE AND BLOCKING MATERIAL SHALL NOT BLOCK NOR OBSTRUCT HYDRANT DRAIN AS SHOWN IN AWWA MANUAL M 17

TYPICAL HYDRANT INSTALLATION

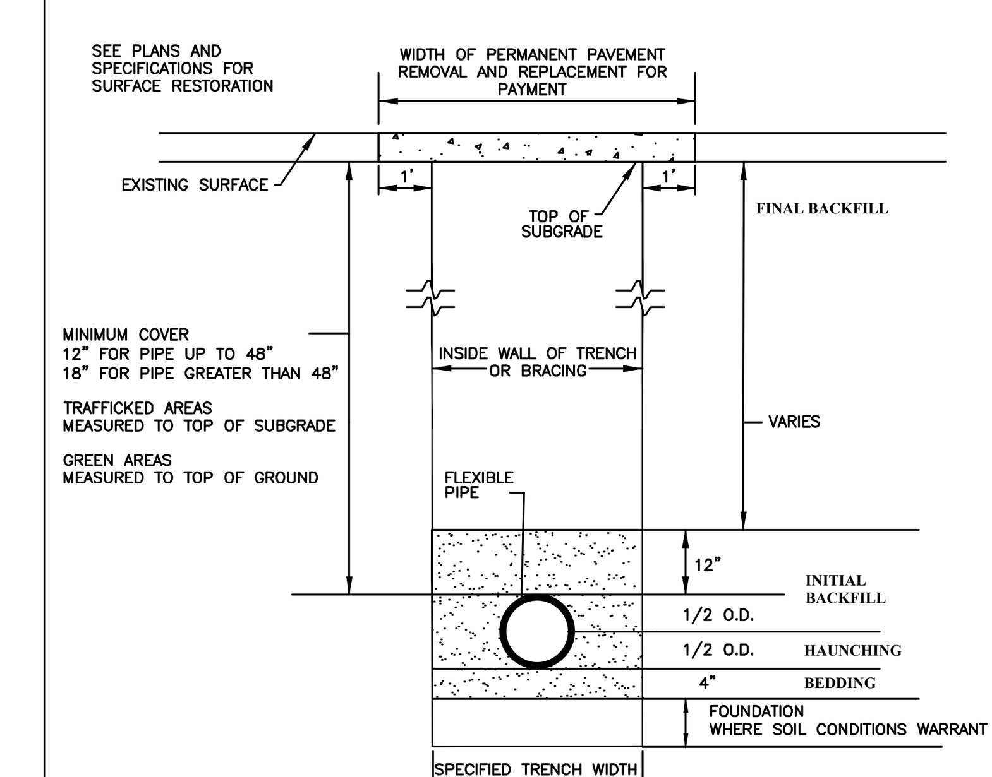
STANDARD DRAWING NO.11



SELECT GRANULAR TRENCH BACKFILL SHALL BE REQUIRED FOR ALL TRENCHES CONSTRUCTED OR WITHIN TWO FEET HORIZONTALLY OF THE EDGE OF THE PROPOSED ROADWAY, CURB & GUTTER, DRIVEWAYS, OR SIDEWALKS AND AT ALL LOCATIONS SHOWN ON PLANS. BACKFILL GRADATION SHALL BE IDOT CA-7

RIGID PIPE INSTALLATION DETAIL

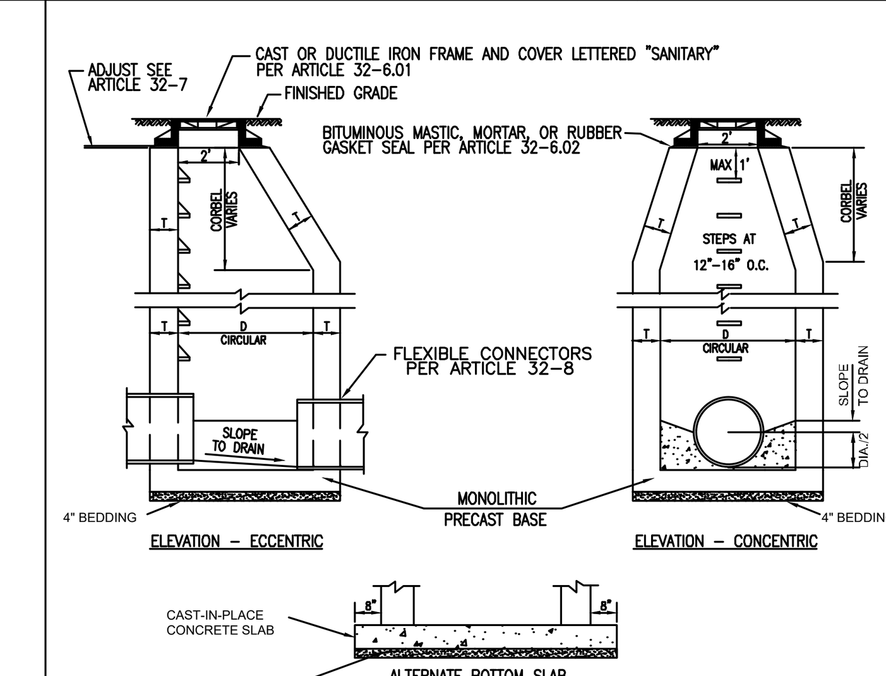
STANDARD DRAWING NO.1



SELECT GRANULAR TRENCH BACKFILL SHALL BE REQUIRED FOR ALL TRENCHES CONSTRUCTED OR WITHIN TWO FEET HORIZONTALLY OF THE EDGE OF THE PROPOSED ROADWAY, CURB & GUTTER, DRIVEWAYS, OR SIDEWALKS AND AT ALL LOCATIONS SHOWN ON PLANS. BACKFILL GRADATION SHALL BE IDOT CA-7

FLEXIBLE PIPE INSTALLATION DETAIL

STANDARD DRAWING NO.2



ALT. MATERIALS FOR WALLS	D	T (MIN.)
CONCRETE MASONRY UNITS	4 FEET 5 FEET 6 FEET	5 IN 5 IN 5 IN
BRICK MASONRY	4 FEET 5 FEET 6 FEET	8 IN 8 IN 8 IN
PRECAST REIN. CONCRETE SECT.	4 FEET 5 FEET 6 FEET	4 IN 5 IN 6 IN
CAST-IN-PLACE CONCRETE.	4 FEET 5 FEET 6 FEET	6 IN 6 IN 6 IN

NOTE: SANITARY MANHOLES SUBJECT TO SATURATED SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT MANHOLE COVERS

NOTE: MANHOLE STEPS WHEN REQUIRED, SHALL BE FURNISHED AND INSTALLED AS SHOWN ON THE PLANS IN ACCORDANCE WITH ARTICLE 32-5

TYPICAL SANITARY MANHOLE "A"

REFERENCE SECTION 32 FOR SANITARY SEWER MANHOLE SPECIFICATIONS

STANDARD DRAWING NO.3san

DATE	REV	REVISION
8-16-21	1	VILLAGE REVIEW #1
6-30-21		ISSUED FOR PERMIT

DETAILS – 1

DRAWN BY: NW
CHECKED BY: TC
JOB: 20973
DATE: 6/22/2021

CARE CREMATION CENTER
33 EAST MONTROSE DRIVE
ROMEOVILLE, IL

GEOTECH INC.
CONSULTING ENGINEERS – LAND SURVEYORS
1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010

20973

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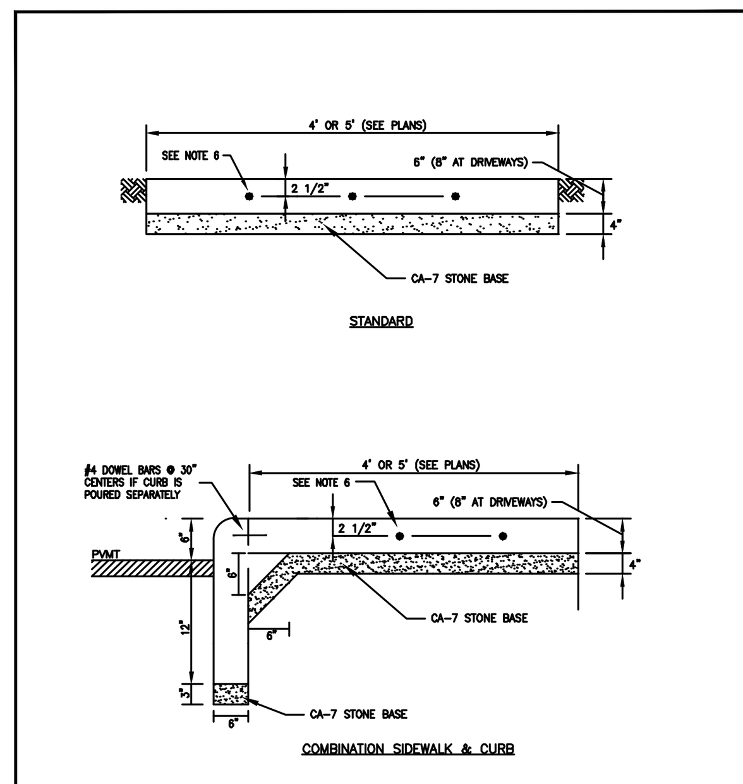
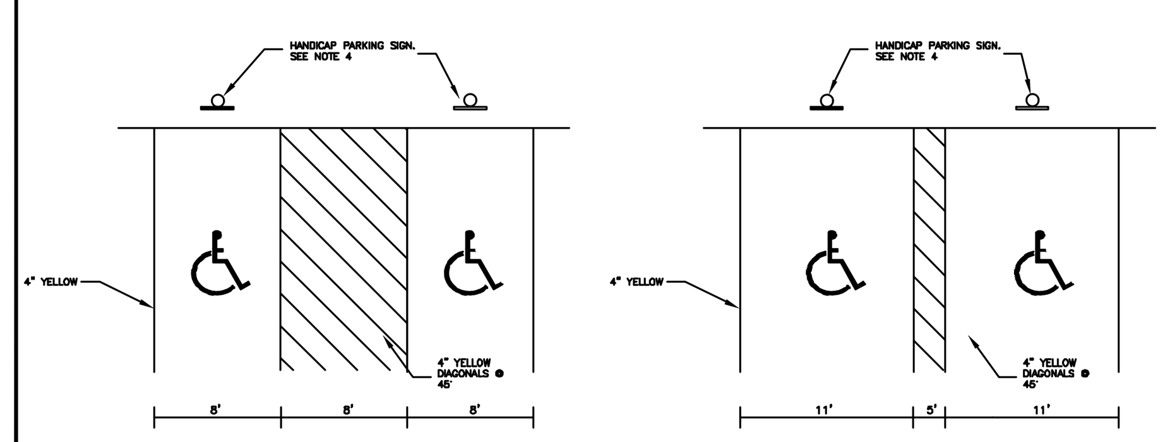


NOTES:
1. ALL SIDEWALK SHALL BE CONSTRUCTED WITH IDOT CLASS "SI" CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 14 DAYS
2. PREFORMED EXPANSION JOINTS (1/2" THICK) SHALL BE CONSTRUCTED IN SIDEWALK EVERY 50 FEET AND AT ALL ABUTTING DRIVEWAYS AND CURB AND GUTTER.
3. TOOLED CONTRACTION JOINTS SHALL BE CONSTRUCTED IN SIDEWALK EVERY FIVE FEET.
4. SIDEWALK SHALL HAVE MAXIMUM 1/4" (1:50) PER FOOT CROSS-SLOPE.
5. W1.4xW1.4 WELDED WIIRE MESH SHALL BE INSTALLED AT ALL DRIVEWAY CROSSINGS.
6. INSTALL #4 BARS (12" LONG) AT ALL CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALKS.

SIDEWALK



NOTES

1. HIGH QUALITY YELLOW PAINT RECOMMENDED BY THE PAINT MANUFACTURER FOR PAVEMENT STRIPING SHALL BE USED.

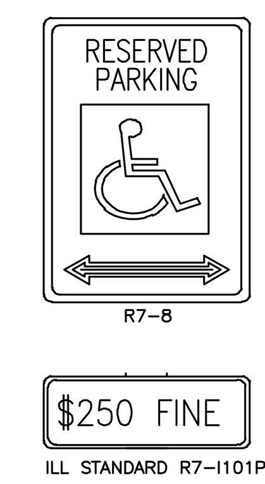
2. HANDICAP LOGO SHALL BE INSTALLED USING HIGH QUALITY YELLOW PAINT.

3. PLATE R7-I101P TO BE MOUNTED DIRECTLY BELOW THE R7-8 SIGN OR COMBINED WITH THAT SIGN ON A SINGLE 12" BY 24" PANEL. 60" MOUNTING HEIGHT AS MEASURED TO BOTTOM OF FINE SIGN

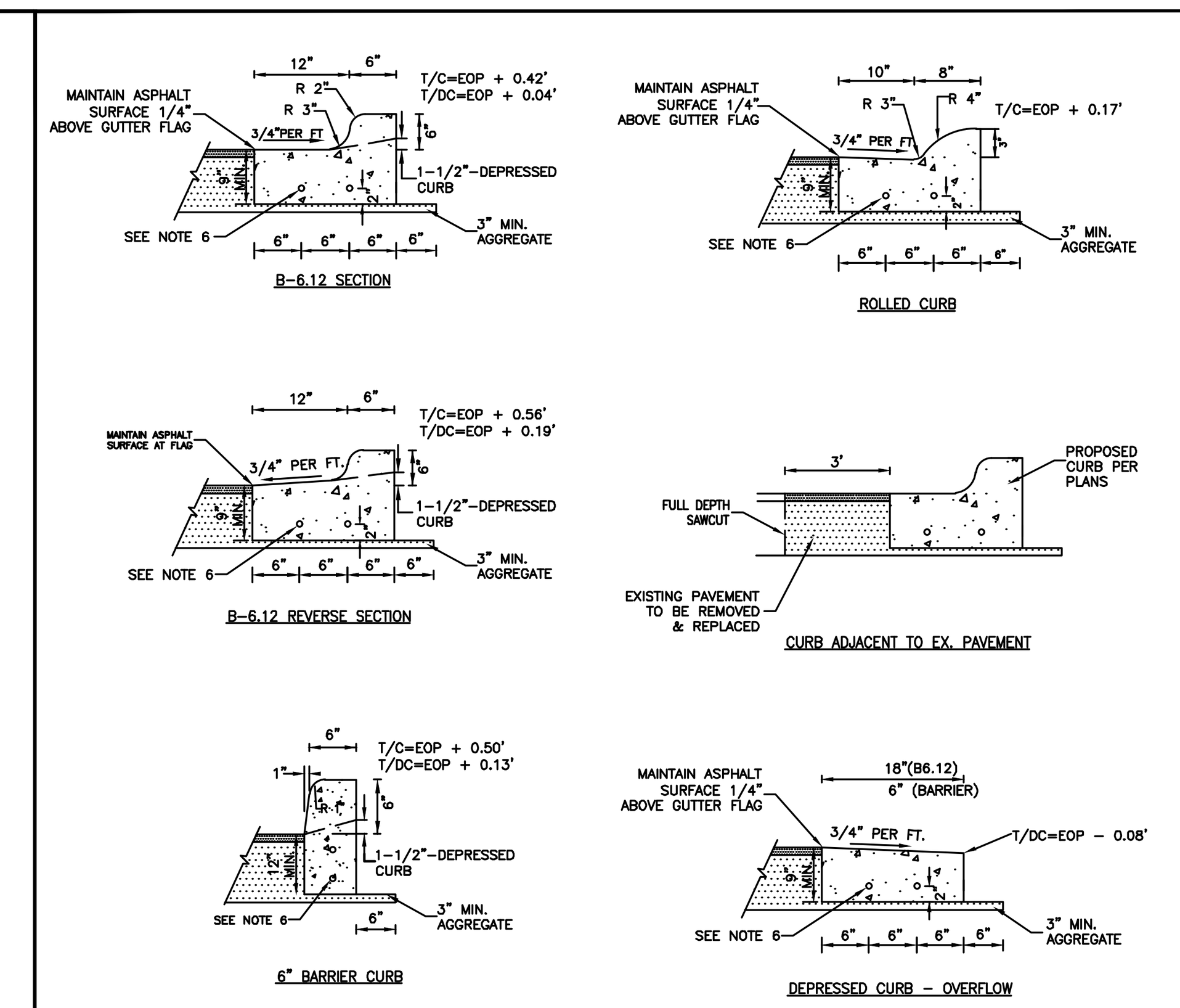
4. SIGN SHALL BE CENTERED ON THE 8' WIDE STALL, NOT MORE THAN 6' IN FRONT OF THE SPACE. SIGN SHALL BE 5' HIGH AS MEASURED FROM THE BOTTOM OF THE FINE SIGN.

5. DOLLAR AMOUNT FOR ILL STANDARD R7-I101 TO BE VERIFIED WITH MUNICIPALITY.

6. HANDICAP STALL AND SIGNAGE SHALL COMPLY WITH THE NEW ILLINOIS ACCESSIBILITY CODE (71 ILL ADM. CODE 400) ACCEPTED OCTOBER 16, 2018.

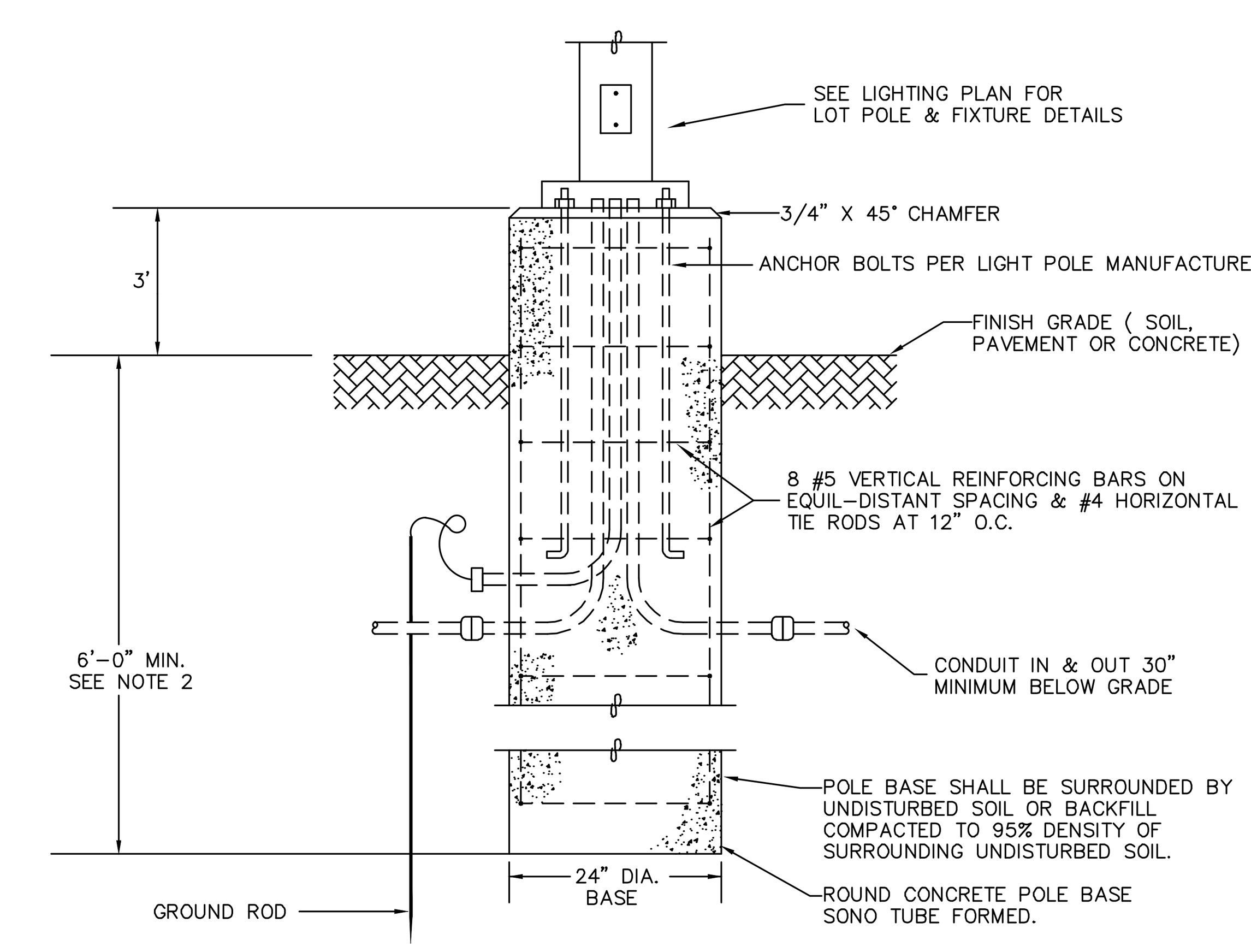


HANDICAP PARKING STALLS



NOTES:
1. ALL CURB AND GUTTER SHALL BE CONSTRUCTED WITH IDOT CLASS SI CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI
2. CONTRACTION JOINTS SHALL BE SAW-CUT AT MAXIMUM 20 FOOT INTERVALS AND CAULKED.
3. PREFORMED EXPANSION JOINTS,¾" THICK, SHALL BE PLACED 10 FEET EITHER SIDE OF STORM STRUCTURES IN CURB AND GUTTER, AT CURB RETURNS AND AT POINTS OF CURVATURE, AT ALL CONNECTIONS BETWEEN NEW AND EXISTING CURB AND GUTTER, AND AT 100' INTERVALS ON TANGENTS.
4. CURB AND GUTTER AT STORM STRUCTURES SHALL BE BOXED-OUT A MINIMUM OF 10' ON EACH SIDE OF STRUCTURE AND HAND-FORMED BETWEEN EXPANSION JOINTS. FORMS SHALL BE PLACED AND INSPECTED BY VILLAGE PRIOR TO POURING CONCRETE. STRUCTURE FRAMES SHALL BE PLACED AND ADJUSTED PRIOR TO THIS INSPECTION.
5. CURB TO BE DEPRESSED AT A.D.A. SIDEWALK RAMPS AND WHERE SHOWN ON PLANS.
6. INSTALL 2 - #4 DEFORMED BARS AT EXPANSION JOINTS, CONNECTION TO EXISTING CURBS, AND OVER ALL TRENCHES.
7. APPLICABLE IDOT STANDARD 606001-06

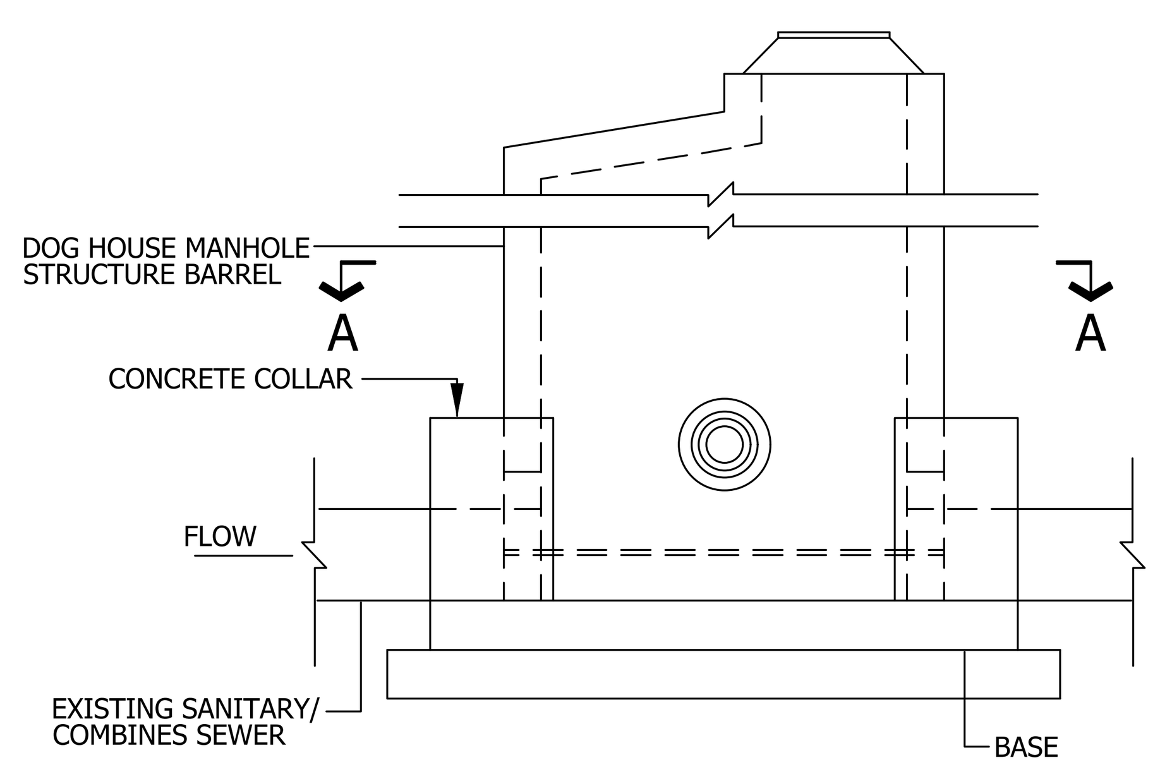
CURB DETAIL (NOT TO SCALE)



NOTES:
1. 4,000 PSI CONCRETE
2. DEPTH OF BASE BASED ON LIGHT POLE MANUFACTURER REQUIREMENTS AND SOIL CONDITIONS.
3. VERIFY CONDUIT, ANCHOR BOLTS, AND GROUNDING REQUIREMENTS WITH LIGHT POLE MANUFACTURER

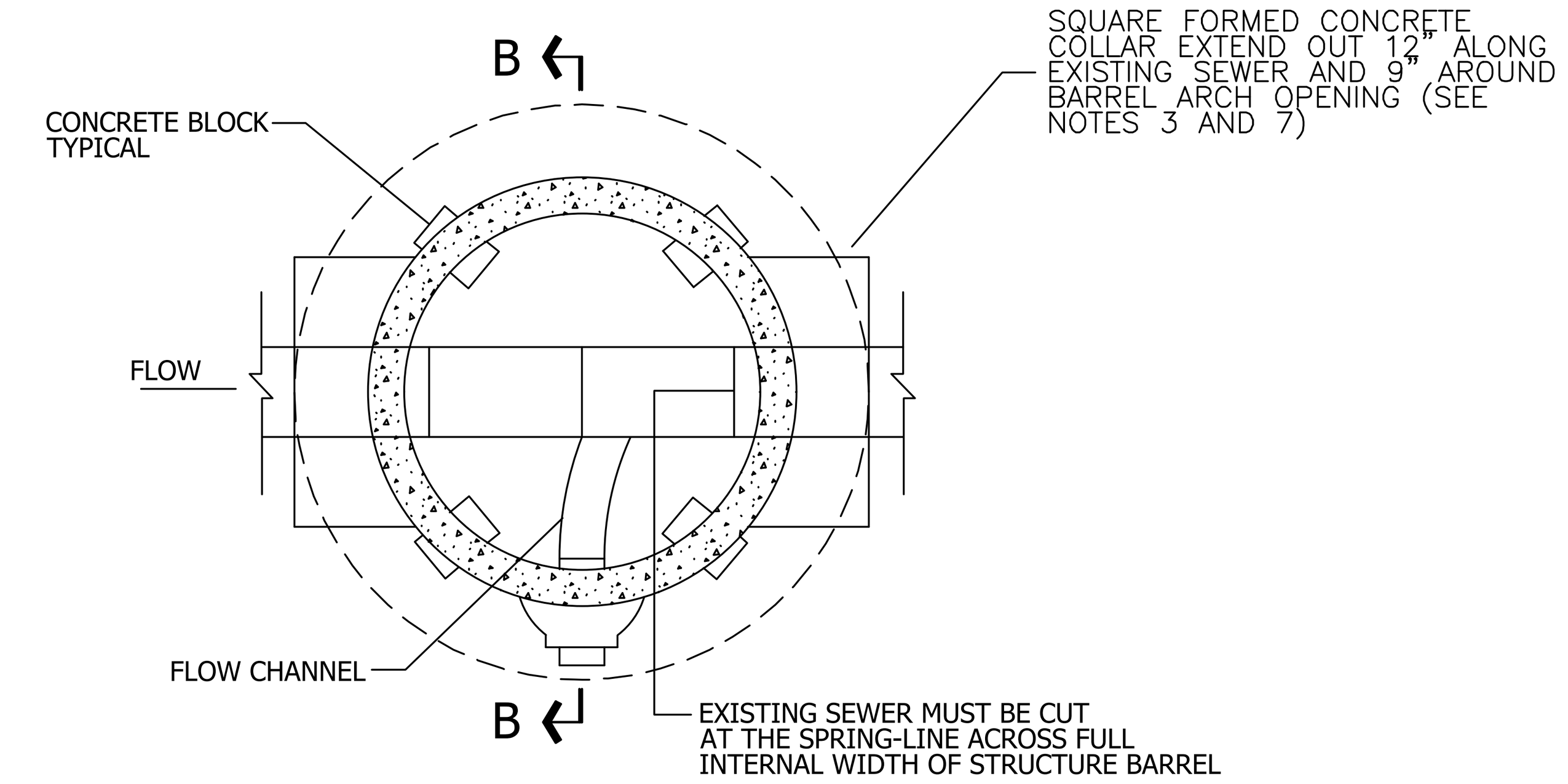
1

LIGHT POLE CONCRETE BASE

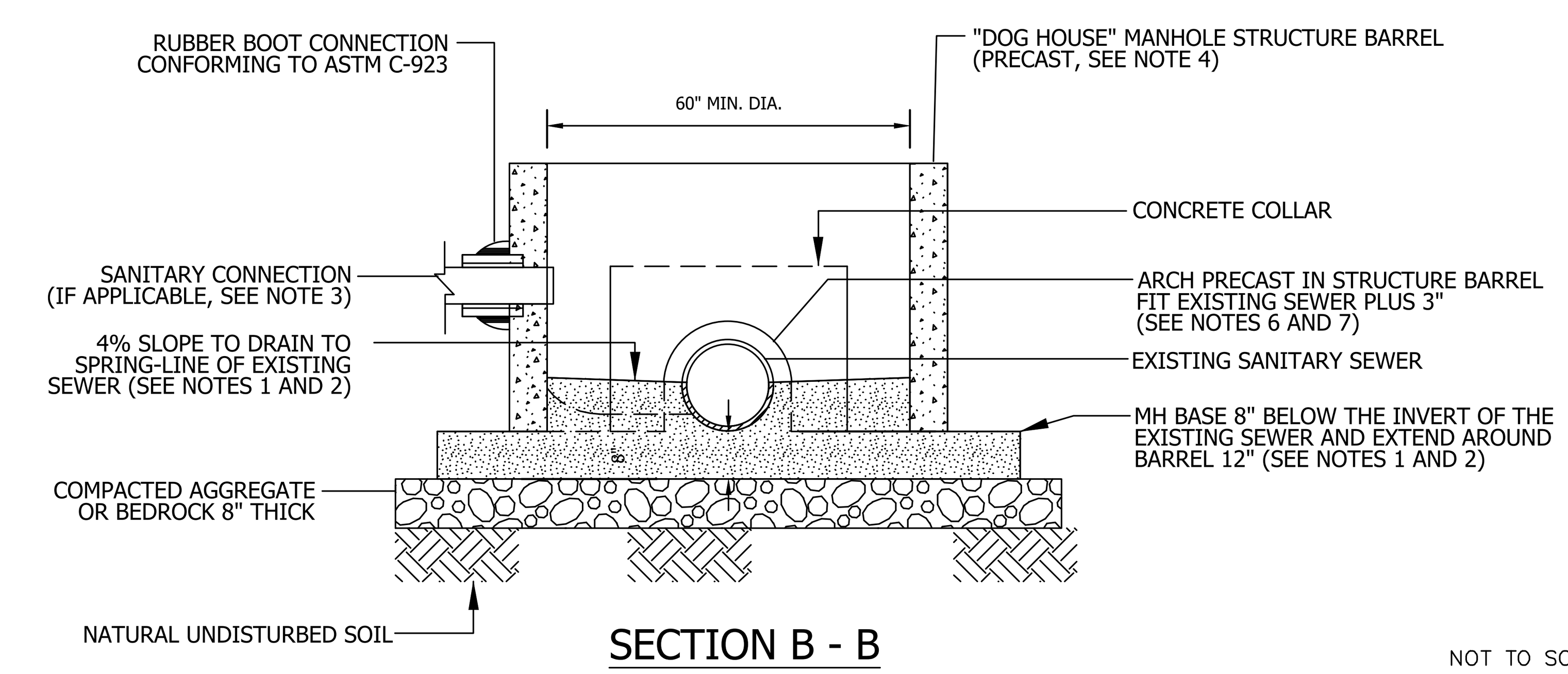


DOG HOUSE MANHOLE PROFILE

NOTES:
1. INTEGRAL POUR FOR BASE AND BENCH. (NO PRECAST BASE) ALL POURED-IN-PLACE CONCRETE MUST BE 4000 PSI
2. NON-SHRINK MIX. EXTERNAL DROP CONNECTION MUST BE PROVIDED
3. IF INVERT OF CONNECTING SEWER IS 24" OR MORE ABOVE THE INVERT OF OUTLET (SEE SEPARATE MWRD
4. STANDARD DROP DETAIL). MANHOLE DIAMETER MINIMUM 60"-INCREASES BASED ON THE EXISTING SEWER DIAMETER. CONCRETE BONDING AGENT MUST BE APPLIED TO ALL
5. INTERFACES OF PRECAST CONRETE SURFACES WITH POURED-IN-PLACE CONCRETE.
6. A CURVED INTERNAL ARCH FORM MUST BE USED DURING COLLAR CONCRETE FILL. NO BRICK, MORTAR, OR DEBRIS IS TO BE USED IN PLACE OF CONSOLIDATED
7. CONCRETE. DEBRIS MUST NOT BE ALLOWED TO ENTER THE SEWER SYSTEM AT ANY TIME DURING CONSTRUCTION. ALL DIMENSIONS NOTED ARE MINIMUM ALLOWED.
8. THE STRUCTURE MUST NOT BE BACKFILLED FOR A MINIMUM OF 24 HOURS AFTER CONSTRUCTION.
9. PUMPING IN LIEU OF "DOG HOUSE" MANHOLE UPON
10. ENGINEER AND INSPECTOR APPROVAL.



SECTION A - A



SECTION B - B

NOT TO SCALE

1

SANITARY DOGHOUSE MANHOLE

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8-16-21	1	VILLAGE REVIEW #1
8-30-21		ISSUED FOR PERMIT

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CHECKED BY: TC

DETAILS - 2

JOB: 20973
DATE: 6/22/2021

CARE CREMATION CENTER
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GENERAL SPECIFICATIONS:

1. DEFINITION OF TERMS:
   - A. "CLIENT" SHALL MEAN THE PERSON OR ENTITY WITH WHOM GEOTECH INCORPORATED HAS CONTRACTED WITH TO PREPARE CIVIL ENGINEERING PLANS AND SPECIFICATIONS.
   - B. "ENGINEER" SHALL MEAN GEOTECH INCORPORATED
   - C. "PLANS" SHALL MEAN THE CIVIL ENGINEERING PLANS AND SPECIFICATION PREPARED BY THE ENGINEER.
   - D. "CONTRACTOR" SHALL MEAN ANY PERSON OR ENTITY PERFORMING ANY WORK DESCRIBED IN THE PLANS.
   - E. "JURISDICTIONAL ENTITY" SHALL MEAN ANY MUNICIPAL, COUNTY, STATE, OR FEDERAL UNIT OF GOVERNMENT FROM WHOM AN APPROVAL, PERMIT, AND/OR REVIEW IS REQUIRED FOR ANY ASPECT OF THE PROJECT.
2. CONTRACTOR ACKNOWLEDGES AND AGREES THAT THE USE AND RELIANCE OF THE PLANS IS SUFFICIENT CONSIDERATION FOR CONTRACTOR'S COVENANTS STATED HEREIN.
3. NO CONSTRUCTION PLAN SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION". PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THE CONTRACTOR MUST IMMEDIATELY REPORT SAME TO ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS, AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT THEIR OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
4. ALL WORK HEREIN PROPOSED SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS OF ANY JURISDICTIONAL ENTITY, AND ALL SUCH PERTINENT LAWS, DIRECTIVES, ORDINANCES AND THE LIKE SHALL BE CONSIDERED TO BE A PART OF THESE PLANS. IF A DISCREPANCY IS NOTED BETWEEN THE PLANS AND REQUIREMENTS OF ANY JURISDICTIONAL ENTITY, THE CLIENT AND/OR CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
5. CONSTRUCTION OF WORK PROPOSED BY THE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH, AND MATERIALS USED SHALL BE IN COMPLIANCE WITH, THE METHODS AND MATERIALS REQUIRED IN THE APPROPRIATE SECTIONS OF THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION , DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS" AND "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
6. WHEN THE PLANS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF EXISTING UNDERGROUND FACILITIES AND UTILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE APPROXIMATE LOCATION AND ELEVATION OF SUCH FACILITIES AND UTILITIES. AT THE LOCATIONS WHEREIN DETAILED POSITIONS OF THESE FACILITIES AND UTILITIES BECOME NECESSARY FOR NEW CONSTRUCTION, INCLUDING ALL POINTS OF CONNECTION, THE CONTRACTOR SHALL FURNISH ALL LABOR AND TOOLS TO VERIFY OR DEFINITELY ESTABLISH THE HORIZONTAL LOCATION, ELEVATION, SIZE, AND MATERIAL OF THE FACILITIES AND UTILITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES IN EXISTING INFORMATION OR CONFLICTS WITH EXISTING UTILITIES EXIST. ENGINEER ASSUMES NO RESPONSIBILITY WHATEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND FACILITIES AND UTILITIES, NOR THE MANNER IN WHICH THEY ARE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY PRIOR TO CONSTRUCTION TO NOTIFY ALL UTILITY COMPANIES OF THE INTENT TO BEGIN CONSTRUCTION AND TO VERIFY THE ACTUAL LOCATION OF ALL SUCH FACILITIES AND UTILITIES. THE CONTRACTOR SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES THE WORKING SCHEDULE FOR REMOVING OR ADJUSTING THESE FACILITIES.
7. THE PLANS HAVE BEEN PREPARED BY THE ENGINEER BASED ON THE ASSUMPTION THAT EXISTING OR MODIFIED SOIL CONDITIONS ARE SUITABLE TO SUPPORT THE PROPOSED IMPROVEMENTS SHOWN. THE CLIENT AND/OR CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF ANY OBSTRUCTIONS OR UNSUITABLE MATERIAL ARE DISCOVERED THAT PREVENTS THE INSTALLATION OF THE IMPROVEMENTS AS SHOWN ON THE PLANS. THE CLIENT, AT THEIR DISCRETION SHALL RETAIN A GEOTECHNICAL ENGINEER, TO ENSURE THE SOIL CONDITIONS ARE SUITABLE TO SUPPORT THE PROPOSED IMPROVEMENTS.
8. DUE TO THE UNCERTAINTY OF SEASONAL GROUND WATER TABLES AND THE GEOPHYSICAL CONDITIONS AFFECTING GROUND WATER MOVEMENT, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE MANAGEMENT OF GROUND WATER ASSOCIATED WITH SUBGRADE CONSTRUCTION. UNDERGROUND UTILITIES, BASEMENTS, OR OTHER SIMILAR FACILITIES CONSTRUCTED BELOW FINISHED GRADE ARE AT THE RISK OF THE CLIENT. CLIENT SHALL COORDINATE WITH CONTRACTOR, ARCHITECT, AND/OR SOILS ENGINEER TO MITIGATE THE POTENTIAL IMPACT OF GROUND WATER ON THE PROPOSED IMPROVEMENTS.
9. TREES NOT SCHEDULED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE. TREES SHALL NOT BE REMOVED UNLESS REQUESTED BY THE CLIENT.
10. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, EQUIPMENT, AND PERSONNEL NECESSARY TO PROVIDE FOR SAFE AND EFFICIENT TRAFFIC FLOW IN ALL AREAS WHERE WORK WILL INTERRUPT, INTERFERE OR CAUSE TO CHANGE IN ANY FORM THE CONDITIONS OF TRAFFIC FLOW THAT EXISTED PRIOR TO THE START OF WORK. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES.
11. THE CONTRACTOR, HIS AGENTS AN EMPLOYEES, AND ALL EQUIPMENT, MACHINERY AND VEHICLES SHALL CONFINE THEIR WORK WITH THE BOUNDARIES OF THE PROJECT OR WORK AREA. THE CONTRACTOR SHALL BE SOLELY LIABLE FOR DAMAGE CAUSED BY THEIR AGENTS, EMPLOYEES, EQUIPMENT, MACHINERY, AND VEHICLES ON ADJACENT PROPERTIES OR AREAS OUTSIDE DESIGNATED WORK AREAS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO ARRANGE FOR THE RELOCATION OR BRACING OF EXISTING UTILITY POLES THAT MAY BE WITHIN THE WORKING LIMITS OF THE CONTRACT. ALL WORK AND COSTS CONNECTED WITH THE RELOCATION OR MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CLIENT OR CONTRACTOR.
13. RESTORATION OF DAMAGE TO PUBLIC OR PRIVATE PROPERTY OUTSIDE THE LIMITS OF THE PROJECT SHALL BE PERFORMED IMMEDIATELY UPON COMPLETION OF THE WORK. AREAS SHALL BE RESTORED AS NEARLY AS POSSIBLE TO THEIR ORIGINAL CONDITION OR BETTER AND SHALL INCLUDE BUT NOT LIMITED TO: MAINTAINED LAWNS AND RIGHT-OF-WAYS, ROADWAYS, DITCHES, SIDEWALKS, PAVEMENTS, LANDSCAPING, TREES, FENCES, MAILBOXES, SEWERS, WATER MAINS, ETC.
14. CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THE REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS RELATING TO THE SAFETY OF PERSONS OR PROPERTY, OR TO THE PROTECTION OF PERSONS OR PROPERTY FROM DAMAGE, INJURY, OR LOSS, AND SHALL ERECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. THE DUTIES OF THE ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF EITHER THE CONTRACTOR'S OR THE GENERAL PUBLIC'S SAFETY IN, ON, OR NEAR THE CONSTRUCTION SITE.
15. CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE FREE FROM ACCUMULATION OF CONSTRUCTION DEBRIS, WASTE MATERIAL, TRASH, OILS, AND OTHER MISCELLANEOUS ITEMS. ADJACENT ROADWAYS SHALL BE KEPT FREE OF MUD AND DEBRIS AT ALL TIMES. UTILITY STRUCTURES AND CURB FLOW LINES SHALL BE CLEANED OF DEBRIS.
16. FOR DISTURBANCES EXCEEDING ONE ACRE, A NOTICE OF INTENT SHALL BE SUBMITTED BY THE ENGINEER TO OBTAIN THE IEPA'S GENERAL NPDES PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITE ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL INSPECTIONS AND RECORD KEEPING REQUIRED AS PART OF THE NPDES PERMIT.
17. CONTRACTOR SHALL ADJUST ALL STRUCTURES TO EITHER EXISTING OR PROPOSED ELEVATIONS. ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL. ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM A ANY ADDITIONAL ADJUSTMENTS AS REQUIRED DURING FINAL INSPECTION.
18. THE VILLAGE/CITY SHALL BE NOTIFIED WHEN EXISTING FIELD DRAINAGE TILES ARE ENCOUNTERED DURING CONSTRUCTION REGARDLESS OF CONDITION OR FUNCTIONALITY. THE VILLAGE/CITY SHALL HAVE FINAL APPROVAL OF ANY REPAIR, CONNECTION, ABANDONMENT, OR OTHER METHODS FOR MITIGATING EXISTING DRAINAGE TILES ENCOUNTERED ON SITE. CONTRACTOR SHALL KEEP A RECORD OF ALL SIZES AND LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILES.
19. ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
20. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE ENGINEER AT CONTRACTOR'S COST.
21. ANY EXISTING SIGNS, LIGHT STANDARDS, AND/OR UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR, WHICH SHALL BE CONSIDERED INCIDENTAL. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE. ANY SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.
22. ANY DEWATERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED IN SEWER AND WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL (UPON APPROVAL OF THE CLIENT AND/OR ENGINEER) OVER-EXCAVATE TO A DEPTH OF ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.
23. CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE CONTRACTOR'S WORK. IN ANY AND ALL CLAIMS AGAINST THE ENGINEER BY ANY EMPLOYEE OF THE CONTRACTOR, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR, OR ANYONE WHOSE ACTS THE CONTRACTOR MAY BE LIABLE, THE INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR UNDER WORKER'S COMPENSATION ACTS, DISABILITY BENEFIT ACTS OR OTHER EMPLOYEE BENEFIT ACTS.
24. CONTRACTOR SHALL MAINTAIN COMPREHENSIVE GENERAL LIABILITY INSURANCE, WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE, AND COMPREHENSIVE AUTOMOBILE LIABILITY INSURANCE TO PROVIDE PROTECTION FROM CLAIMS WHICH MAY ARISE OUT OF OR RESULTING FROM THE PERFORMANCE OF WORK BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR OR BY ANYONE FOR WHOSE ACTS THE CONTRACTOR MAY BE LIABLE. THE ENGINEER SHALL BE NAMES AS ADDITIONAL INSURED ON THE POLICIES.
25. THE ENGINEER SHALL NOT SUPERVISE, DIRECT, OR HAVE CONTROL OVER THE CONTRACTOR'S WORK. NOR SHALL THE ENGINEER HAVE THE AUTHORITY OVER THE RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES SELECTED BY THE CONTRACTOR TO COMPLETE THE WORK. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR OR FOR ANY FAILURE OF THE CONTRACTOR TO COMPLY WITH THE LAWS, RULES, REGULATIONS, ORDINANCES, CODES, OR ORDERS APPLICABLE TO THE CONTRACTOR FURNISHING AND PERFORMING THEIR WORK.

DEMOLITION:

1. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR THE DEMOLITION WORK AND DISPOSAL OF WASTE MATERIAL. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
2. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL, AND DISPOSAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, ROAD, PARKING LOTS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS SHOWN ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO THE PROPOSED SUB-GRADE ELEVATION WITH SUITABLE COMPACTED MATERIAL.
3. ALL EXISTING UTILITY LINES AND CONDUITS LOCATED UNDER PROPOSED BUILDINGS, ROADWAYS, DRIVES, PAVEMENT AREAS, OR SIDEWALKS SHALL BE REMOVED AND PROPERLY BACKFILLED WITH SUITABLE COMPACTED MATERIAL. ALL EXISTING UTILITY LINES UNDER PROPOSED LANDSCAPE AREAS SHALL BE LEFT IN PLACE AND PLUGGED AT ALL STRUCTURES. ALL EXISTING STRUCTURES SHALL BE REMOVED AND BACKFILLED WITH SUITABLE COMPACTED MATERIAL. CONTRACTOR SHALL COORDINATE ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANY.
4. CONTRACTOR SHALL COORDINATE WITH JURISDICTIONAL ENTITY AND UTILITY COMPANIES REGARDING THE REMOVAL OF SERVICE LINES. CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND CHARGES ASSOCIATED WITH DISCONNECTION OF EXISTING SERVICES.
5. REMOVAL AND/OR ABANDONMENT OF ANY WELLS, SEPTIC TANKS AND/OR FIELDS, AND GREASE TRAPS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPROPRIATE JURISDICTIONAL ENTITY.
6. CONTRACTOR SHALL DEVELOP AND MAINTAIN A DUST CONTROL PLAN IN ACCORDANCE WITH JURISDICTIONAL ENTITY REQUIREMENTS.
6. CONTRACTOR SHALL COORDINATE WITH JURISDICTIONAL ENTITY AND CLIENT TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS NECESSARY AND PROVIDE STORM WATER CONVEYANCE UNTIL NEW FACILITIES ARE CONSTRUCTED, TESTED, AND PLACED IN OPERATION.

EARTHWORK:

1. COPIES OF SOIL BORINGS AND REPORTS, IF SUCH BORINGS WERE TAKEN BY THE CLIENT, SHOULD BE MADE AVAILABLE BY THE CLIENT TO THE ENGINEER AND CONTRACTOR. THESE BORINGS ARE PRESENTED FOR WHATEVER PURPOSE THE CONTRACTOR CHOOSES TO MAKE OF THEM. THE ENGINEER MAKES NO REPRESENTATIONS OR WARRANTY REGARDING THE NUMBER, LOCATION, SPACING, OR DEPTH OF BORINGS TAKEN, NOR OF THE ACCURACY OR RELIABILITY OF THE INFORMATION GIVEN IN THE RESULTS THEREOF.

   FURTHER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THE POSSIBILITY THAT DURING CONSTRUCTION, THE SOIL AND GROUNDWATER CONDITIONS MAY BE DIFFERENT THAN INDICATED. NEITHER DOES THE ENGINEER ASSUME RESPONSIBILITY FOR VARIATIONS OF SOIL AND GROUNDWATER AT LOCATIONS BETWEEN BORINGS. THE CONTRACTOR MAY AT THEIR DISCRETION AND COST OBTAIN ITS OWN BORINGS, EXPLORATIONS, AND OBSERVATIONS TO DETERMINE SOIL AND GROUND WATER CONDITIONS.
2. THE SITE SHALL BE CLEARED, GRUBBED, AND TREES AND STUMPS REMOVED WHERE DESIGNATED ON THE PLANS OR SPECIFIED BY THE CLIENT. TREES DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE.
3. UPON COMPLETION OF DEMOLITION AND SITE CLEARING, ALL TOPSOIL, ORGANIC MATERIAL, OR OTHER UNSUITABLE MATERIAL SHALL BE STRIPPED FROM AREAS REQUIRING STRUCTURAL FILL. STRIPPED MATERIAL SHALL BE PLACED IN STOCKPILES IN CLIENT DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED AND FILL IN AREAS NOT REQUIRING STRUCTURAL FILL. EXCESS STRIPPED MATERIAL SHALL BE COMPLETELY REMOVED FROM THE SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
4. ALL SUITABLE EXCAVATED MATERIALS SHALL BE HAULED, PLACED (MOISTURE CONDITIONED IF NECESSARY) AND COMPACTED IN FILL AREAS. CONTRACTOR SHALL INCLUDE ALL DEWATERING, TEMPORARY DITCHES AND CULVERTS NECESSARY TO COMPLETE THE EXCAVATION AND FILL WORK.
5. EXCAVATION AND PLACEMENT OF SUITABLE FILL MATERIAL SHALL BE WITHIN THE PROJECT LIMITS AND TO THE SUBGRADE ELEVATIONS PROVIDED ON THE PLANS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT (8) INCHES IN THICKNESS AND THE WATER CONTENT SHALL BE ADJUSTED TO ACHIEVE REQUIRED COMPACTION. IN AREAS REQUIRING STRUCTURAL FILL, FILL MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIAL.
6. COMPACTION OF EXCAVATED MATERIAL AND OTHER SUITABLE MATERIAL SHALL BE AT LEAST 95% OF THE STANDARD PROCTOR DRY DENSITY WITHIN STRUCTURAL FILL AREAS (BUILDING PAD, PAVEMENT, SIDEWALK, ETC.) AND 90% OF THE STANDARD PROCTOR DRY DENSITY FOR NON-STRUCTURAL AREAS (GRASS, LANDSCAPE, YARDS, ETC.).
7. UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION. IF ENCOUNTERED BELOW NORMAL TOPSOIL DEPTHS AND/OR PROPOSED SUBGRADE ELEVATIONS IT SHALL BE REMOVED AND REPLACED WITH MATERIAL APPROVED BY THE SOILS CONSULTANT. THE DECISION TO REMOVE SAID MATERIAL AND TO WHAT EXTENT SHALL BE MADE BY A SOILS CONSULTANT AND THE CLIENT.
8. THE CLIENT SHALL, AT THEIR DISCRETION, EMPLOY A SOILS CONSULTANT AND TESTING FIRM TO ENSURE THE EXCAVATED AND FILL MATERIALS ARE PROPERLY CONSTRUCTED TO SUPPORT THE PROPOSED IMPROVEMENTS. THE ENGINEER DOES NOT ASSUME ANY RESPONSIBILITY REGARDING THE SUITABILITY OF THE SOIL TO SUPPORT THE PROPOSED IMPROVEMENTS.
9. UPON COMPLETION OF EXCAVATION AND SHAPING OF STORM WATER DETENTION AREAS INTENDED TO MAINTAIN A PERMANENT POOL OF WATER, ALL SILT SEAMS AND GRANULAR OR SANDY SOILS SHALL BE REMOVED TO A MINIMUM DEPTH OF THREE FEET BELOW THE SUBGRADE AND REPLACED WITH AN IMPERMEABLE CLAY LINER, INCLUDING ADJACENT TO AND UNDER STORM SEWER INLETS AND OUTLETS. IT IS THE INTENT OF THESE PLANS THAT THE CONTRACTOR SHALL PREPARE THE POND BOTTOMS, SIDE SLOPES, AND COMPACTION THEREOF SUCH THAT THE PONDS WILL MAINTAIN THE PROPOSED NORMAL WATER LEVELS.
10. THE CONTRACTOR SHALL:
    - A. MAINTAIN POSITIVE SITE DRAINAGE AT ALL TIMES DURING CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
    - B. SPREAD AND COMPACT UNIFORMLY ALL EXCESS TRENCH SPOILS AFTER COMPLETION OF THE UNDERGROUND UTILITIES.
    - C. SCARIFY AND COMPACT THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS (EXCAVATED AND FILL) THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT.
    - D. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
    - E. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
    - F. IMPLEMENT AND MAINTAIN SOIL EROSION CONTROL MEASURES PROVIDED ON THE PLANS.
    - G. LIME STABILIZE THE SUBGRADE MATERIAL IF REQUIRED BY THE SOILS CONSULTANT AND CLIENT.
11. CONTRACTOR SHALL PROVIDE TESTING AND PROOF-ROLLING AS REQUIRED BY THE CLIENT AND JURISDICTIONAL ENTITY. ANY UNSUITABLE AREAS ENCOUNTERED DURING TESTING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL APPROVED BY THE SOILS CONSULTANT AND RETESTED.

SEWER AND WATER MAIN GENERAL NOTES:

1. ALL SANITARY SEWERS, STORM SEWERS, WATER MAINS AS WELL AS THEIR SERVICES AND OTHER RELATED APPURTENANCES SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" AND "IDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" IN ADDITION TO THE REQUIREMENTS OF THE APPLICABLE JURISDICTIONAL ENTITY.
2. SELECT GRANULAR TRENCH BACKFILL (IDOT CA-7) SHALL BE REQUIRED FOR ALL SEWER AND WATER MAIN TRENCHES LYING UNDER EXISTING OR PROPOSED STREETS, DRIVEWAYS, PARKING LOTS, CURB AND GUTTER, SIDEWALKS, AND WITHIN TWO FEET THEREOF, AND WHERE NOTED ON PLANS.
3. TRENCH EXCAVATION, BEDDING, HAUNCHING, AND INITIAL BACKFILL (IDOT CA-7) FOR TRENCHES SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE TRENCH SECTION DETAIL AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PIPE.
4. UNSUITABLE SOIL CONDITIONS BELOW THE DEPTH OF THE TRENCH BEDDING, AS DETERMINED BY THE SOILS/ GEOTECHNICAL ENGINEER, ENCOUNTERED DURING TRENCH EXCAVATION SHALL BE REMOVED AND REPLACED WITH GRANULAR COMPACTED BEDDING MATERIAL AS DIRECTED BY THE SOILS/GEOTECHNICAL ENGINEER OR JURISDICTIONAL ENTITY.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ANY TRENCH EXCAVATIONS FOR THE INSTALLATION OF UNDERGROUND MAINS AND APPURTENANCES. DEWATERING SHALL BE CONSIDERED INCIDENTAL.
6. NON-SHEAR "BAND-SEAL" OR SIMILAR FLEXIBLE TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIAL.
7. CONTRACTOR SHALL MARK THE LOCATIONS OF THE ENDS OF SERVICE STUBS WITH 4"x4" WOOD POSTS EXTENDING A MINIMUM OF THREE FEET ABOVE THE GROUND. THE TOP OF THE POSTS SHALL BE PAINTED GREEN FOR SANITARY, WHITE FOR STORM, AND BLUE FOR WATER. CONTRACTOR SHALL KEEP ACCURATE RECORDS OF SERVICE CONNECTION LOCATIONS, INCLUDING DISTANCES FROM DOWNSTREAM MANHOLES FOR SANITARY SERVICES. ALL STUBS SHALL BE PROPERLY PLUGGED.
8. FOR UTILITY STRUCTURES REQUIRING ADJUSTMENT, A MINIMUM OF TWO ADJUSTING RINGS (MIN. 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE.
9. ALL SANITARY SEWERS, STORM SEWERS, WATER MAIN AS WELL AS THEIR SERVICES AND OTHER RELATED APPURTENANCES SHALL BE THOROUGHLY CLEANED PRIOR TO INSPECTION AND TESTING AND AT THE END OF THE PROJECT.
10. CONTRACTOR SHALL COORDINATE INSPECTIONS, TESTING, AND TELEVISING WITH THE APPLICABLE JURISDICTIONAL ENTITY. THE COST OF CLEANING, TESTING, AND TELEVISING SHALL BE CONSIDERED INCIDENTAL.
11. ALL DEFICIENCIES AND DEFECTS OBSERVED AS WELL AS ANY NECESSARY CORRECTIVE WORK REQUIRED AS A RESULT OF TESTING OR TELEVISION INSPECTION SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST AND WITHOUT DELAY. ALL DIPS, CRACKS, LEAKS, IMPROPERLY SEALED JOINTS AND DEPARTURES FROM THE APPROVED GRADES AND ALIGNMENTS SHALL BE REPAIRED BY REMOVING AND REPLACING THE INVOLVED SECTIONS OF PIPE. UPON COMPLETION THEREOF, THE SEWER SHALL BE RETESTED AND/OR RE-TELEVISED.

LIGHTING:

1. ALL WORK SHALL CONFORM WITH THE NATIONAL ELECTRIC CODE, COMMONWEALTH EDISON POLICIES, AND THE APPLICABLE REGULATIONS OF THE JURISDICTIONAL ENTITY.
2. PLANS SHOW LOCATION OF LIGHT POLES ONLY. THE DESIGN OF THE ELECTRIC SYSTEM REQUIRED TO POWER THE LIGHTS SHALL BY OTHERS.
3. CLIENT SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH THE DESIGN, PERMITTING, AND INSTALLATION OF THE COMPLETE LIGHTING SYSTEM (POWER, POLES, LIGHTS, ETC.).
4. CLIENT AND/OR CONTRACTOR SHALL COORDINATE WITH COMMONWEALTH EDISON, AS NECESSARY, REGARDING EXISTING OR PROPOSED POWER TO THE SITE. CLIENT WILL BE RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH COMMONWEALTH EDISON SUPPLYING POWER TO THE SITE.
5. IF LIGHTING SYSTEM IS CONSIDERED A PUBLIC IMPROVEMENT, CLIENT AND/OR CONTRACTOR SHALL COORDINATE WITH COMMONWEALTH EDISON AND THE JURISDICTIONAL ENTITY REGARDING TRANSFER OF STREET LIGHT SYSTEM TO3 JURISDICTIONAL ENTITY.

SANITARY SEWERS & APPURTENANCES:

1. SANITARY SEWER PIPE, INCLUDING SERVICES, SHALL BE POLYVINYL CHLORIDE (PVC) SEWER PIPE, ASTM D3034, SDR 26 WITH FLEXIBLE ELASTOMERIC SEALS CONFORMING TO ASTM D3212 AND F477.
2. WHERE WATER MAIN QUALITY PIPE AND JOINTS ARE REQUIRED, SANITARY SEWER PIPE SHALL BE PVC PIPE ASTM D2241, SDR 26, WITH ELASTOMERIC GASKET JOINTS CONFORMING TO ASTM D3139 AND F477.
3. MANHOLES SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478. ALL SANITARY MANHOLE CASTINGS, ADJUSTING RINGS, AND MANHOLE SECTIONS SHALL BE SET IN BUTYL ROPE OR APPROVED EQUAL. EACH MANHOLE CONE AND BARREL SECTION JOINT SHALL ALSO BE EXTERNALLY SEALED WITH 6" WIDE SEALING BAND OF RUBBER AND MASTIC. BAND SHALL HAVE AN OUTER LAYER OF RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC MEETING THE REQUIREMENTS OF ASTM C-877-02. PIPE CONNECTION TO NEW AND EXISTING MANHOLES THROUGH OPENINGS (CAST OR CORE-DRILLED) SHALL BE PROVIDED WITH A FLEXIBLE RUBBER WATERTIGHT CONNECTOR CONFORMING TO ASTM C-923. ALL JOINTS SHALL BE EXTERNALLY WRAPPED (MINIMUM 9" WIDTH) WITH MACWRAP OR EQUAL.
4. EXTERNAL CHIMNEY SEALS ARE REQUIRED ON ALL NEW MANHOLES AND EXISTING MANHOLES BEING ADJUSTED AND SHALL CONFORM TO ASTM C923. ACCEPTABLE EXTERNAL CHIMNEY SEALS INCLUDE INFI-SHIELD UNI-BAND.
5. INTERNAL CHIMNEY SEALS ARE REQUIRED ON ALL NEW MANHOLES AND EXISTING MANHOLES BEING ADJUSTED. INTERNAL CHIMNEY SEALS SHALL BE RAVEN 581 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED FOR THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY SEAL AREA INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE MANHOLE CONE INCLUDING ALL EXTENSIONS TO THE CHIMNEY AREA. APPLICATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND FILM SHALL BE APPLIED AT A WET MILS SPREADING RATE OF BETWEEN 100 TO 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS.
6. AN EXTERNAL DROP MANHOLE SHALL BE PROVIDED WHERE THE DIFFERENCE BETWEEN INVERTS IS GREATER THAN OR EQUAL TO TWO FEET. SEE APPLICABLE DETAIL.
7. MINIMUM COVER OVER SANITARY SEWER LINES AND SERVICES SHALL BE FIVE FEET.
8. SANITARY SERVICE LINE SIZE SHALL BE 6-INCH DIAMETER PIPE, SAME MATERIAL AND JOINTS AS THE SANITARY SEWER, AT A 1.0% MINIMUM SLOPE. ALL SERVICE STUBS SHALL BE CAPPED WITH A WATERTIGHT PLUG, PROPERLY SECURED TO WITHSTAND THE REQUIRED TEST PRESSURES.
9. SANITARY SEWER SERVICE RISERS SHALL BE INSTALLED WHERE THE MAINLINE SEWER DEPTH IS GREATER THAN TWELVE FEET OR IN LOCATIONS INDICATED ON THE PLANS.
10. CONNECTION TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING SERVICE STUB, WYE, TEE, OR MANHOLE SHALL BE MADE WITH A CIRCULAR SAW-CUT OF THE SEWER MAIN BY PROPER TOOLS (SEWER-TAP MACHINE OR SIMILAR). A SUITALBE HUB-WYE SADDLE OR HUB-TYE SADDLE (INSERTA-TEE, INSERTA-WYE, OR EQUAL) SHALL BE PROVIDED.
11. BEFORE FINAL ACCEPTANCE, THE SANITARY SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS. SPECIFICALLY, ALL PIPELINES CONSTRUCTED OF FLEXIBLE MATERIALS SHALL BE SUBJECT TO AIR EXFILTRATION TESTS, TELEVISING TEST, AND DEFLECTION TEST. THE DEFLECTION TEST SHALL BE PERFORMED NO SOONER THAN THIRTY DAYS OF THE BACKFILLING OPERATION AND SHALL CONSIST OF MEASURING THE PIPE FOR VERTICAL RING DEFLECTION. MAXIMUM RING DEFLECTION OF THE PIPELINE UNDER LOAD SHALL BE LIMITED TO FIVE PERCENT OF THE INTERNAL PIPE DIAMETER. ALL PIPE EXCEEDING THIS DEFLECTION SHALL BE RE-LAID OR REPLACED BY THE DEVELOPER. DEFLECTION TESTING SHALL BE ACCOMPLISHED BY PULLING A MANDREL, SPHERE, OR PIN-TYPE "GO/NO-GO" DEVICE, WITH A DIAMETER EQUAL TO NINETY-FIVE PERCENT OF THE UNDEFLECTED INSIDE DIAMETER OF THE FLEXIBLE PIPE, THROUGH THE PIPELINE. IN ADDITION, ALL SANITARY SEWER HAVING A DIAMTER OF EIGHT INCHES OR GREATER SHALL BE TELEVISED. COPIES OF ALL VIDEO TAPES MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE.
12. VACUUM TESTING SHALL BE CARRIED OUT IMMEDIATELY AFTER ASSEMBLY AND PRIOR TO BACKFILLING OF MANHOLES THAT ARE UP TO SEVENTY-TWO INCHES IN DIAMETER. ALL LIFT HOLES SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. THE MANHOLE FRAME AND ADJUSTING RINGS AND CHIMNEY SEALS SHALL BE IN PLACE BEFORE TESTING. NO GROUT SHALL BE PLACED IN THE HORIZONTAL JOINTS. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE WITH THE VACUUM TESTING. VACUUM TESTING SHALL TEST ALL MANHOLES FOR LEAKAGE. A VACUUM OF TEN INCHES OF MERCURY SHALL BE PLACED ON THE MANHOLE AND TIME MEASURED FOR THE VACUUM TO DROP TO NINE INCHES OF MERCURY. THE VACUUM DROP SHALL NOT EXCEED THE REQUIREMENTS SHOWN IN TABLE 1 OF ASTM C1244-02. IF TESTING FAILS, DEVELOPER SHALL SEAL ALL LEAKS AND RETEST UNTIL ACCEPTABLE. THE TESTING SHALL BE COMPLETED PRIOR TO BACKFILLING (WHENEVER POSSIBLE) SO THAT ANY LEAKS CAN BE FOUND AND FIXED EXTERNALLY, AND TO GIVE THE HORIZONTAL MANHOLE JOINTS AN OPPORTUNITY TO TIGHTEN.
13. THE DEVELOPER WILL BE REQUIRED TO MONITOR THE FLOWRATE FROM THE SITE FOR A PERIOD OF TWO MONTHS (ENCOMPASSING AT LEAST TWO MAJOR STORM EVENTS) TO IDENTIFY ANY EXCESSIVE INFLOW/INFILTRATION OCCURRING IN THE SYSTEM. THE DATA MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.

WATER MAIN & APPURTENANCES:

1. WATER MAIN SHALL BE DUCTILE IRON PIPE, CLASS 52 CONFORMING TO AWWA C151 WITH PUSH ON JOINTS CONFORMING TO AWWA C111. ALL FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA C110. PIPE AND FITTINGS SHALL BE CEMENT LINED IN CONFORMANCE WITH AWWA C104.
2. ALL WATER MAIN SHALL BE WRAPPED IN V-BIO POLYETHYLENE USING ALTERNATE MODIFIED METHOD A: WET TRENCH CONDITIONS. A LAYER OF ARC-SPRAYED ZINC PER ISO 8179 IS REQUIRED ON EXTERIOR OF PIPE.
3. INSTALLATION OF PIPE AND FITTINGS SHALL BE PER AWWA C600. PIPE SHALL BE INSTALLED WITH A MINIMUM COVER OF 5' FROM FINISHED GRADE.
4. WATER MAIN FITTINGS (i.e. BENDS, ELBOWS, TEES, REDUCERS, ETC.) MAY NOT BE SPECIFICALLY REFERENCED ON THE PLANS AND ARE TO BE CONSIDERED INCIDENTAL AND INCLUDED IN THE LINEAR FOOTAGE COST OF THE WATER MAIN.
5. WATER SERVICES 2-INCHES IN DIAMETER OR SMALLER SHALL BE TYPE K COPPER PER ASTM B88 AND ASTM B251. SERVICE SIZES 3-INCH AND LARGER SHALL BE DUCTILE IRON
6. ALL JOINTS SHALL BE RESTRAINED WITH MEGALUGS (EBAA IRON) ONLY, NO CONCRETE THRUST BLOCKS.
7. WATER VALVES SHALL BE RESILIENT WEDGE GATE VALVE CONFORMING TO AWWA C509. VALVES SHALL BE AMERICAN FLOW OR EAST JORDAN (FLOWMASTER). VALVE BOXES SHALL BE TYLER SCREW-TYPE C, CAST IRON, SERIES 6860 WITH NO. 160 OVAL BASE OR EAST JORDAN SCREW-TYPE, SERIES 5860 WITH #160 BASE. LIDS MUST BE MARKED "WATER"
8. VALVE VAULTS SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478, MINIMUM 5' DIAMETER. JOINTS SHALL BE EXTERNALLY WRAPPED WITH MACWRAP (MIN, 9" WIDE) OR EQUAL. RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL EXCEPT FOR DOGHOUSE MANHOLES (I.E. PRESSURE CONNECTIONS) WHERE BRICK/MORTAR WITH HYDROPLUG CEMENT IS REQUIRED ON BOTH THE INSIDE AND OUTSIDE OF THE PENETRATION. INTERNAL/EXTERNAL CHIMNEY SEALS SHALL BE PROVIDED. MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISERS (MINIMUM 2" THICK).
9. VALVE BOXES SHALL BE CAST IRON EXTENSION SCREW TYPE CONSTRUCTED IN CONFORMANCE WITH THE STANDARD DETAIL. FRAME AND LIDS SHALL BE IMPRINTED WITH "WATER".
10. FIRE HYDRANTS SHALL BE EAST JORDAN WATER MASTER 5BR250 WITH 6" PLAIN-END SHOE WITH ATTACHED 6" RESILIENT WEDGE MECHANICAL JOINT VALVE AND MUST INCLUDE STORZ PUMPER CONNECTION WITH TWO 2-1/2" HOSE CONNECTIONS.
11. ALL B-BOXES, CORPORATION STOPS, GROUND KEY STOPS, SERVICE BOXES, TAPPING SLEEVES, AND OTHER WATER MAIN RELATED APPURTENANCES SHALL CONFORM TO APPLICABLE JURISDICATIONAL ENTITY REQUIREMENTS. CONTRACTOR SHALL VERIFY EXACT MODEL, STYLE, TYPE, AND MANUFACTURER REQUIRED PRIOR TO ORDERING MATERIALS.
12. ALL WATER MAIN SHALL BE TESTED BY MEANS OF A PRESSURE TEST AND LEAKAGE TEST PER THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION", AWWA C600, AND APPLICABLE JURISDICTIONAL ENTITY REQUIREMENTS.
13. UNLESS OTHERWISE NOTED, CONNECTION(S) TO AN EXISTING WATER MAIN SHALL BE MADE BY A PRESSURE TAP PER THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS. PRESSURE CONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE REPRESENTATIVES OF THE JURISDICTIONAL ENTITY.
14. CONTRACTOR SHALL BE CONSCIOUS OF DAMAGING THE PAINT ON HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEOVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BE DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAGE WATER SUPERINTENDENT, ANY HYDRANTS EXHIBITING EXCESSIVE ROCK DAMAGE WILL BE SAND BLASTED AND REPAINTED BY AN APPROVED CONTRACTOR PRIOR TO ACCEPTANCE.
15. A MINIMUM OF 48 HOURS PRIOR TO ANY WATER USAGES (I.E. FLUSHES, FILLS, ETC.) THE CONTRACTOR MUST CALL THE VILLAGE WATER DEPARTMENTS AT 815-886-1870 TO GET APPROVAL OF SAID USAGE. ANY UNAUTHORIZED USAGES WILL RESULT IN PENALTIES.
16. ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE WATER DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO ORDERING.
17. MINIMUM CHLORINATION STANDARDS:
    - a. GAS CHLORINE MUST BE USED FOR DISINFECTION.
    - b. CONTRACTOR MUST CALL 815-866-1870 A MINIMUM OF 24 HOURS IN ADVANCE TO SCHEDULE CHLORINATION.
    - c. ONLY VILLAGE EMPLOYEES SHALL OPERATE WATER SYSTEM VALVES AND TURN ON/OFF SAMPLING WHIPS WHILE SAMPLES ARE BEING COLLECTED.
    - d. ALL CHLORINATION AND SAFETY EQUIPMENT MUST MEET OR EXCEED THE STANDARDS AND RECOMMENDATIONS SET BY THE CHLORINE INSTITUTE INC.
    - e. THE CHLORINATOR MUST BE LICENSED PLUMBER OR CERTIFIED ILLINOIS WATER OPERATOR WITH A MINIMUM OF 5 YEARS EXPERIENCE WORKING WITH CHLORINE DISINFECTION OF WATER SUPPLY LINES.
    - f. THE CHLORINATION CONTRACTOR MUST HAVE TWO PEOPLE PRESENT TO CHLORINATE. ONE TO MONITOR THE CYLINDER AND ONE TO MONITOR IN THE FIELD.
    - g. THE CHLORINATION CONTRACTOR MUST BE BONDED AND INSURED AND HAVE PROOF ON FILE WITH THE VILLAGE.
    - h. CHLORINATION CONTRACTOR MUST HAVE UPDATED 24-HOUR EMERGENCY PHONE NUMBERS ON FILE WITH VILLAGE
    - i. CHLORINATION CONTRACTOR MUST COMPLY WITH STATE AND FEDERAL REGULATIONS REGARDING TRANSPORTATION AND HANDLING OF CHLORINE CYLINDERS: SHIPPING AND EMERGENCY PAPERS FOR EVERY JOB LOCATION, PROOF OF INSURANCE FOR HAULING AND HANDLING CHLORINE GAS, COMMERCIAL DRIVER'S LICENSE WITH HAZMAT ENDORSEMENT AND MEDICAL CARD, COPY OF EMERGENCY RESPONSE GUIDEBOOK IN VEHICLE, HAZMAT CERTIFICATION OF REGISTRATION, HAZARDOUS MATERIALS PLACARD DISPLAYED ON VEHICLE, CYLINDER STRAPPED UPRIGHT IN TRUCK.
    - j. UNDER NO CIRCUMSTANCES WILL CHLORINE CONTRACTORS BE ALLOWED TO APPLY HEAT TO THE CHLORINE CYLINDER. WHILE THE CYLINDER IS BEING USED IT MUST BE IN A VERTICAL POSITION, AS WELL AS AFFIXED TO A SOLID OBJECT.
    - k. PRIOR TO CHLORINATION, THE CHLORINATION CONTRACTOR MUST PROVIDE A DETAILED WRITTEN CHLORINATION AND FLUSHING PLAN TO THE VILLAGE FOR REVIEW AND WRITTEN APPROVAL.
    - l. AT ANY TIME, THE VILLAGE OR ITS AUTHORIZED REPRESENTATIVE MAY ASK FOR PROOF OF ANY OR ALL OF THE ABOVE INFORMATION. PLEASE CONTACT THE VILLAGE OF ROMEOVILLE PUBLIC WORKS DEPT. (815-886-1870) WITH ANY QUESTIONS.

WATER MAIN PROTECTION REQUIREMENTS:

WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWER CONNECTIONS AND DRAINS IN ACCORDANCE WITH SECTION 41 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS AS FOLLOWS:

VERTICAL SEPARATION:

1. A WATER MAIN SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OF DRAIN.

2. BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE. PRE-STRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN:

(A) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPERATION AS DESCRIBED IN (1) ABOVE; OR

(B) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN.

NOTES:

(1) CASING OF EITHER THE WATER MAIN OR SEWER PIPE IS ACCEPTABLE IN LIEU OF PLACING THE SEWER IN WATER MAIN EQUIVALENT PIPE.

(2) THE STORM SEWER CAN BE CONSTRUCTED WITH REINFORCED CONCRETE PIPE USING FLEXIBLE GASKETS JOINTS, (ASTM C361, C443) INSTEAD OF CONSTRUCTING THE STORM SEWER WITH WATER MAIN EQUIVALENT PIPE OR CASING PIPE.

3. A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE MAIN, AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.

4. CONSTRUCTION OF WATER MAIN QUALITY PIPE SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (10) FEET.

HORIZONTAL SEPARATION:

1. WATER MAINS SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.

2. WATER MAINS MAY BE LOCATED CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN:

(A) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET; AND

(B) THE WATER MAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE SEWER; AND

(C) THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.

3. WHEN IT IS IMPOSSIBLE TO MEET (1) OR (2) ABOVE, BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRE-STRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

PAVEMENT, CURB & GUTTER, AND WALKS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBGRADE COMPACTION AND PREPARATION TO THE PROPOSED SUBGRADE ELEVATIONS SHOWN ON THE PLANS.
2. CURB AND GUTTER SHALL BE AS SPECIFIED ON THE PLANS AND SHALL BE BACKFILLED AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE. COMPACTED AGGREGATE UNDER THE CURB SHALL BE CONSIDERED INCIDENTAL. DEPRESSIONS FOR DRIVEWAYS AND A.D.A. RAMPS SHALL BE INSTALLED PER PLANS AND IDOT STANDARDS.
3. BITUMINOUS BINDER AND SURFACE COURSE SHALL BE HOT-MIX ASPHALT (HMA) OF TYPE AND COMPACTED THICKNESS AS SHOWN ON THE PLANS IN ACCORDANCE WITH SECTION 406 OF THE IDOT SPECIFICATIONS. ALL PAVING MATERIALS AND MIXES SHALL BE IDOT CERTIFIED.
4. PORTLAND CEMENT CONCRETE (PCC) PAVEMENT SHALL BE CLASS PV WITH 6x6-W2.9xW2.9 WELDED WIRE FABRIC AND CONSTRUCTED PER SECTION 420 OF THE IDOT STANDARD SPECIFICATIONS. ALL CONCRETE WORK SHALL BE FINISHED WITH A BROOM FINISH.
5. CONTRACTOR SHALL SAW-CUT THE EXPOSED EDGES OF ALL EXISTING PAVEMENT ADJACENT TO ANY PROPOSED PAVEMENT, APRON, SIDEWALK, CURB AND GUTTER, OR SIMILAR TO PROVIDE A SMOOTH, CLEAN EDGE THAT IS FREE OF LOOSE MATERIAL. A PROPER TRANSITION BUTT JOINT AND/OR TAPER SHALL BE PROVIDED.
6. THE TESTING OF THE SUBGRADE, AGGREGATE BASE COURSE, BITUMINOUS BASE COURSE, BINDER COURSE, SURFACE COURSE, AND CONCRETE WORK SHALL BE REQUIRED AND PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS AND REQUIREMENTS OF THE JURISDICTIONAL ENTITY.
7. PRIOR TO THE COMMENCEMENT OF ANY PAVING ACTIVITIES, A PROOF-ROLL OF THE SUB-GRAD SHALL BE PERFORMED BY THE CONTRACTOR AND APPROVED BY THE APPLICABLE JURISIDICTIONAL ENTITY. ALL AREAS NOT PASSING THE PROOF-ROLL SHALL BE REMEDIATED AS RECOMMENDED BY THE SOILS/GEOTECHNICAL ENGINEER AND APPROVED BY THE OWNER. ANY REMEDIATED AREAS SHALL BE RE-TESTED.
8. PRIOR TO THE INSTALLATION OF THE AGGREGATE BASE COURSE THE SUBGRADE SHALL BE PREPARED PER SECTION 301 OF THE IDOT SPECIFICATIONS. SUBGRADE SHALL BE COMPACTED AND PREPARED TO WITHIN 0.1-FT OF THE PROPOSED SUBGRADE ELEVATION. SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR DENSITY PER ASTM D1557.
9. PRIOR TO THE INSTALLATION OF THE BINDER COURSE, THE AGGREGATE BASE COURSE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 351 OF THE IDOT SPECIFICATIONS. AGGREGATE SHALL BE CLEAN AND DRY. BITUMINOUS PRIMING MATERIAL SHALL BE APPLIED PER SECTION 403 OF THE IDOT SPECIFICATIONS AT A RATE OF 0.25 GALLONS PER SQUARE YARD.
10. PRIOR TO INSTALLATION OF SURFACE COURSE, CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND FAILED AREAS IN THE BINDER COURSE, CURB AND GUTTER, AND CONCRETE PAVEMENT TO THE SATISFACTION OF THE JURISDICTIONAL ENTITY AND OWNER. STRUCTURES WITHIN THE PAVEMENT SHALL BE ADJUSTED TO FINAL SURFACE GRADE. CONTRACTOR SHALL CLEAN AND PRIME THE BINDER COURSE AT A RATE OF 0.05 GALLONS PER SQUARE YARD.
11. CONCRETE SIDEWALK SHALL BE CONSTRUCTED TO THE WIDTH AND THICKNESS SHOWN ON THE PLANS. SIDEWALK SHALL BE THICKENED TO A MINIMUM OF 6" AT ALL DRIVEWAYS. ALL SIDEWALKS SHALL BE IDOT CLASS SI CONCRETE ON AN AGGREGATE BASE AS SHOWN ON THE PLANS. SCORED CONTRACTION JOINTS SHALL BE PROVIDED AT FIVE FOOT INTERVALS AND EXPANSION JOINTS (½" PRE-MOLDED FIBER JOINT FILLER) SHALL BE PROVIDED AT MAXIMUM 50 FOOT INTERVALS AND ADJACENT TO CONCRETE CURBS, DRIVES, FOUNDATIONS, RAMPS, ETC. AS WELL AS WHEN MEETING EXISTING WALKS.
12. PAVEMENT MARKING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 780 OF THE IDOT STANDARD SPECIFICATIONS AND MUTCD.
13. HANDICAP STALLS SHALL BE STRIPED AND SIGNED IN ACCORDANCE WITH THE ILLINOIS ACCESSIBILITY CODE, LATEST EDITION, AND OTHER APPLICABLE ADA GUIDELINES.

STORM SEWER & APPURTENANCES:

1. STORM SEWER PIPE SHALL BE CONSTRUCTED FROM ONE OR MORE OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS:
   - A. REINFORCED CONCRETE PIPE, ASTM C76, WITH "O"-RING GASKET JOINTS PER ASTM C361, ASTM C1619 ASTM C443. PIPE CLASS PER SECTION 550 OF IDOT SPECIFICATIONS WITH A MINIMUM OF CLASS III IN NON-STRUCTURAL AREAS (GRASS, PARKWAYS, ETC.) AND A MINIMUM OF CLASS IV IN OR WITHIN ZONE OF INFLUENCE OF ALL STRUCTURAL AREAS (ROADWAYS, PARKING LOTS, CURB, SIDEWALKS, ETC.)
2. WHERE WATER MAIN QUALITY PIPE AND JOINTS ARE REQUIRED, STORM SEWER PIPE SHALL BE CONSTRUCTED FROM ONE OR MORE OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS:
   - A. REINFORCED CONCRETE PIPE, ASTM C361, WITH "O"-RING GASKET JOINTS PER ASTM C443 AND C361. PIPE CLASS PER SECTION 550 OF IDOT SPECIFICATIONS WITH A MINIMUM CLASS III IN NON-STRUCTURAL AREAS (GRASS, PARKWAYS, ETC.) AND MINIMUM CLASS IV IN OR WITHIN ZONE OF INFLUENCE OF ALL STRUCTURAL AREAS (ROADWAYS, PARKING LOTS, CURB, SIDEWALKS, ETC.)
3. MANHOLES, INLETS, AND CATCH BASINS SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND CONSTRUCTED PER STANDARD DETAILS. FRAMES AND LIDS SHALL BE AS APPROVED BY THE JURISDICTIONAL ENTITY AND SHALL BE IMPRINTED WITH "STORM".
4. FLARED END SECTION SHALL BE PRE-CAST REINFORCED CONCRETE END BLOCK PER IDOT STANDARD 542301. FLARED END SECTIONS FOR STORM SEWERS 12" IN DIAMETER OR LARGER SHALL BE INSTALLED WITH A GRATE PER IDOT STANDARD 542311.
5. RIP-RAP WITH FILTER FABRIC PER SECTION 281 OF THE IDOT STANDARD SPECIFICATIONS SHALL BE PROVIDED AT LOCATIONS SHOWN ON THE PLANS.
6. STORM SEWER AND APPURTENANCES SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTIONS.
7. CONNECTION OF STORM SEWER TO EXISTING STRUCTURES OR SEWER MAINS SHALL BE MADE WITH A SEWER TAP MACHINE. SEWER SHALL BE CONNECTED USING NON-SHRINK MORTAR. SEWER SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE EXISTING STRUCTURE OR SEWER MAIN.
8. THE VILLAGE REQUIRES SUBMISSION OF RECORDED VIDEO INSPECTIONS OF ALL PUBLIC STORM SEWERS

DATE	REV	REVISION
8-16-21	1	VILLAGE REVIEW #1
6-30-21		ISSUED FOR PERMIT

SPECIFICATIONS

DRAWN BY: NW
CHECKED BY: TC
JOB: 20973
DATE: 6/22/2021

CARE CREMATION CENTER
33 EAST MONTROSE DRIVE
ROMEOVILLE, IL

GEOTECH INC.
CONSULTING ENGINEERS - LAND SURVEYORS
1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010

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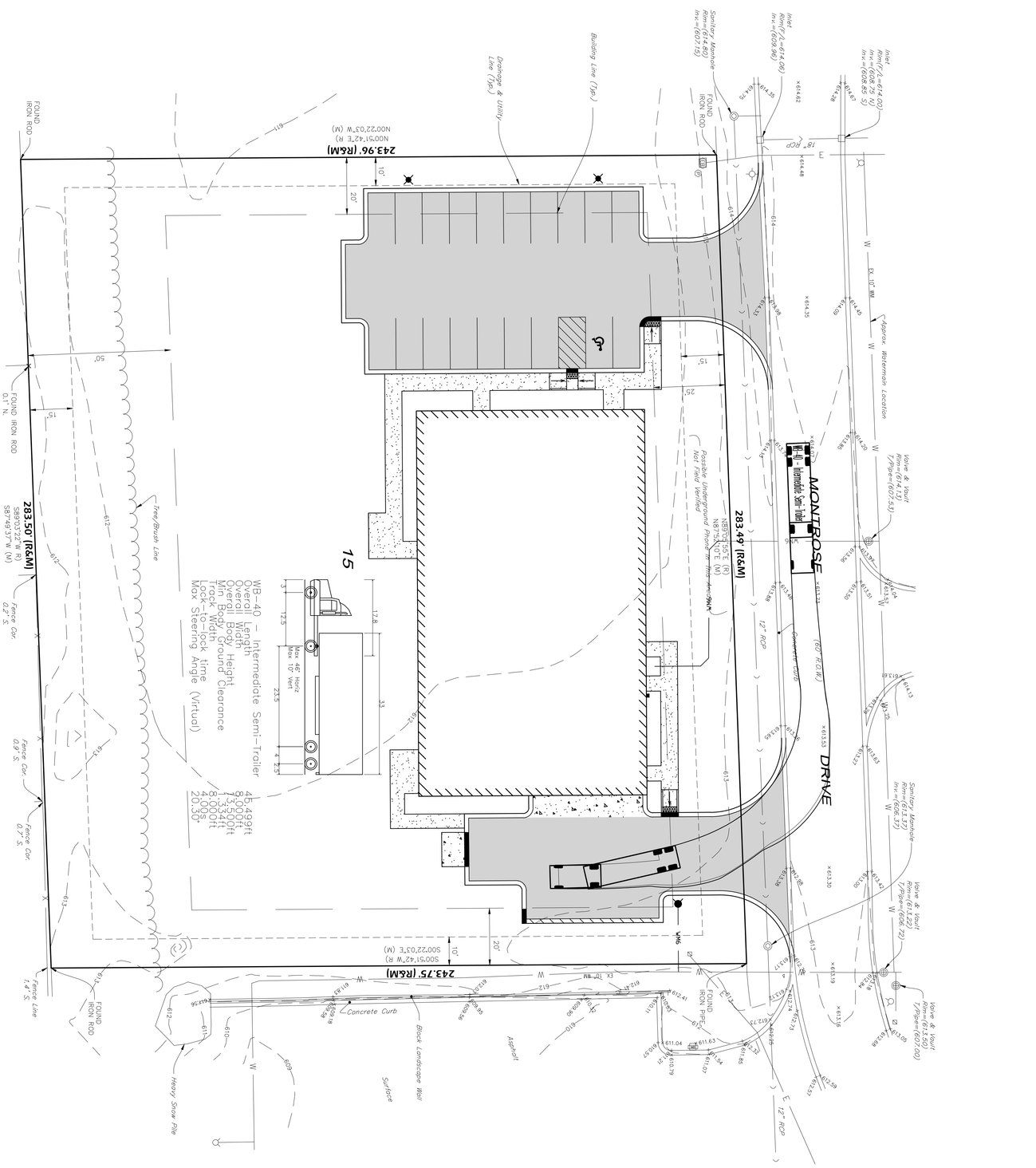
PlotDate: 8/13/2021 7:26 AM , Layout: TURNING EXHIBIT



1 / 20973	GEOTECH INC. CONSULTING ENGINEERS – LAND SURVEYORS 1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010	CARE CREMATION CENTER 33 EAST MONTROSE DRIVE ROMEOVILLE, IL

TURNING EXHIBIT

DRAWN BY: NW
CHECKED BY: TC
JOB: 20973
DATE: 6/22/2021

DATE	REV	REVISION
8-16-21	1	VILLAGE REVIEW #1
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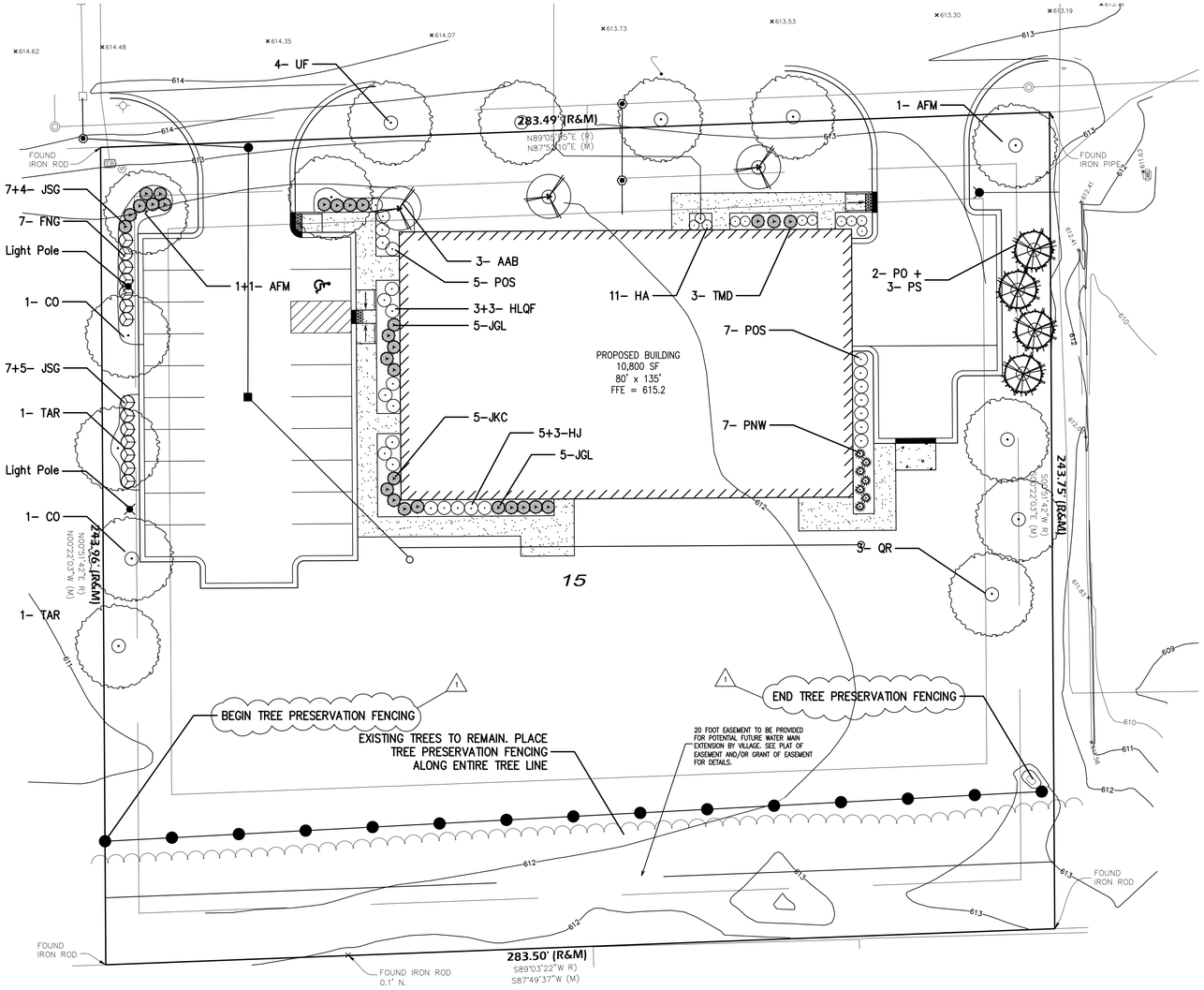


PLANT LIST

KEY	QUAN	BOTANICAL NAME	COMMON NAME	SIZE/ TYPE	SPACING
		DECIDUOUS SHADE TREES			
AFM	3	Acer nigrum	Black Maple	2.5" BB	As Shown
CO	2	Celtis occidentalis	Common Hackberry	2.5" BB	As Shown
QR	3	Quercus rubra	Red Oak	2.5" BB	As Shown
TAR	2	Tilia a. 'Redmond'	Redmond American Linden	2.5" BB	As Shown
UF	4	Ulmus 'Frontier'	Frontier Elm	2.5" BB	As Shown
		EVERGREEN TREES			
PO	2	Picea omorika	Serbian Spruce	6' BB	As Shown
PS	3	Pinus strobus	Eastern White Pine	6' BB	As Shown
		DECIDUOUS ORNAMENTAL TREES			
AAB	3	Amelanchier 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5' BB	As Shown
		DECIDUOUS SHRUBS			
HA	11	Hydrangea a. 'Annabelle	Annabelle Hydrangea	5 Gal.	3'– O.C.
HJ	8	Hydrangea 'Jane'	Little Lime Hydrangea	5 Gal.	48"– O.C.
HLQ	6	Hydrangea p. 'Little Quick Fire'	Little Quick Fire Hydrangea	5 Gal.	48"– O.C.
POS	12	Physocarpus o. 'Seward'	Summer Wine Ninebark	5 Gal.	48"– O.C.
FNG	14	Forsythia 'Northern Gold'	Northern Gold Forsythia	3' BB	48"– O.C.
		EVERGREEN SHRUBS			
JKC	5	Juniperus Kallay's Compact'	Kallay's Compact Juniper	5 Gal.	4'– O.C.
JGL	10	Juniperus c. 'Gold Lace"	Gold Lace Juniper	5 Gal.	4'– O.C.
JSG	11	Juniperus c. 'Sea Green"	Sea Green Juniper	36" BB	4'– O.C.
		ORNAMENTAL GRASSES			
PNW	7	Panicumv. 'Northwind'	Northwind Switch Grass	1 Gal.	3'– O.C.

MATERIAL & LABOR LIST:

QUAN	ITEM	DESCRIPTION
T.B.D. S.Y.	Erosion Control Blanket	S75 Straw Erosion Control Blanket 10 Month Degradability Available From: North American Green PH: 1-800-772-2040
T.B.D. SY	IDOT Class 1 Lawn Mixture	Kentucky Bluegrass Blend: 100 LBS/AC, Perennial Ry: 60 LBS/AC Creeping Red Fescue: 40 LBS/AC Total = 200 LBS/AC
T.B.D. CY	Mulch	Shredded Hardwood Bark

GENERAL NOTES:

Plant material shall be nursery grown and be either balled and bur-lapped or container grown. Sizes and spreads on plant list represent minimum requirements.

The requirements for measurement, branching and ball size shall conform to the latest addition of ANSI Z60.1, AMERICAN STANDARD OF NURSERY STOCK by the American Nursery & Landscape Association.

Any materials with damaged or crooked/disfigured leaders, bark abrasion, sunscald, insect damage, etc. are not acceptable and will be rejected. Trees with multiple leaders will be rejected unless called for in the plant list as multi-stem or clump (cl.).

If any mistakes, omissions, or discrepancies are found to exist with the work product, the Landscape Architect shall be promptly notified so that they have the opportunity to take any steps necessary to resolve the issue. Failure to promptly notify the Landscape Architect and the Owner of such conditions shall absolve them from any responsibility for the consequences of such failure.

Under no circumstances should these plans be used for construction purposes without examining actual locations of utilities on site, and reviewing all related documents mentioned herein, including related documents prepared by the project Civil Engineer and Architect.

Civil Engineering or Architectural base information has been provided by others. The location of various site improvements on this set of drawings is only illustrative and should not be relied upon for construction purposes.

Quantity lists are supplied as a convenience. However, Bidders and the Installing Contractor should verify all quantities. The drawings shall take precedence over the lists. Any discrepancies shall be reported to the Landscape Architect.

Actions taken without the knowledge and consent of the Owner and the Landscape Architect or in contradiction to the Owner and the Landscape Architect's work product or recommendations, shall become the responsibility not of the Owner and the Landscape Architect, but for the parties responsible for the taking of such action.

Refer to Civil Engineering documents for detailed information regarding size, location, depth and type of utilities, as well as locations of other site improvements, other than landscape improvements,

Plant symbols illustrated on this plan are a graphic representation of proposed plant material types and are intended to provide for visual clarity. However, the symbols do not necessarily represent actual plant spread at the time of installation.

All plant species specified are subject to availability. Material shortages in the landscape industry may require substitutions. All substitutions must be approved by the Village, Landscape Architect and Owner.

The Landscape Contractor shall verify location of all underground utilities prior to digging by calling "J.U.L.I.E." (Joint Utility Location for Excavators) 1-800-892-0123 and any other public or private agency necessary for utility location.

All planting beds and tree saucers shall be mulched with a minimum of three inches (3") of shredded wood mulch.

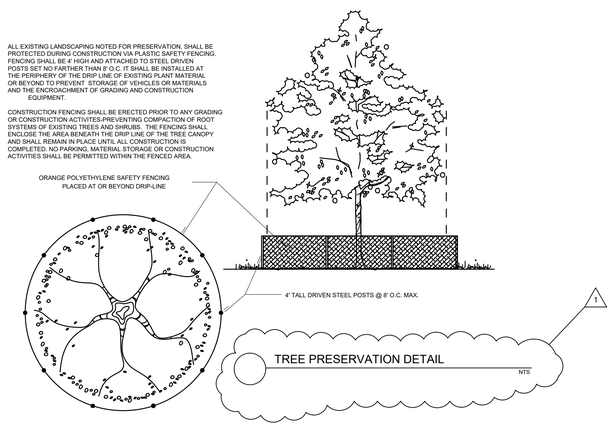
Planting beds adjacent to building shall be mulched in their entirety to the building foundation. Plant materials shall not be installed under building overhangs and other such areas which do not receive natural rainfall.

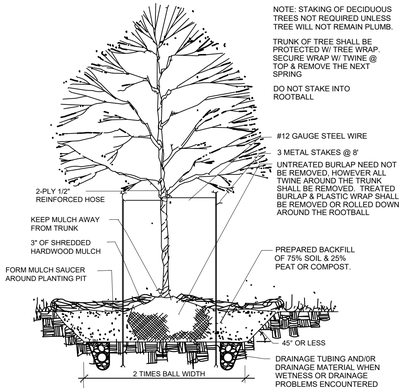
All bed lines and tree saucers shall require a hand spaded edge between lawn and mulched areas.

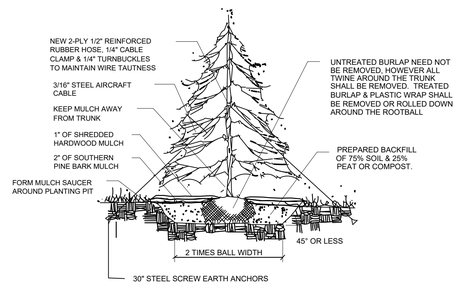
Grading shall provide slopes which are smooth and continuous. Positive drainage shall be provided in all areas.

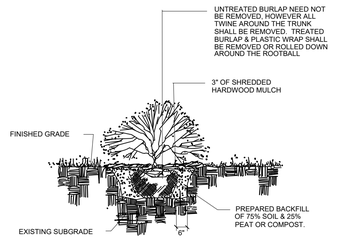
Seed mixes shall be applied mechanically so that the seed is incorporated into the top one-half inch (1/2") of the seed bed. The seed shall then be covered with the specified blanket (installed per manufacturer's specs) or Hydro-mulch.

All plant material shall be guaranteed for one (1) year from the date of acceptance.









GRAPHIC SCALE 1"=20'

0 5 10 20 40

8-16-21 1 VILLAGE REVIEW
6-30-21 REV REVISION
DATE

LANDSCAPE PLAN

DRAWN BY: NW
CHECKED BY: TC

JOB: 20973
DATE: 05/20/2021

CARE CREMATION CENTER
33 EAST MONTROSE DRIVE
ROMEOVILLE, IL

GEOTECH INC.
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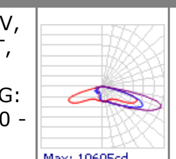
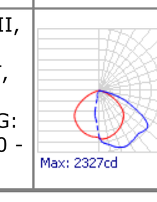
1207 CEDARWOOD DRIVE CREST HILL, ILLINOIS 60403 815/730-1010

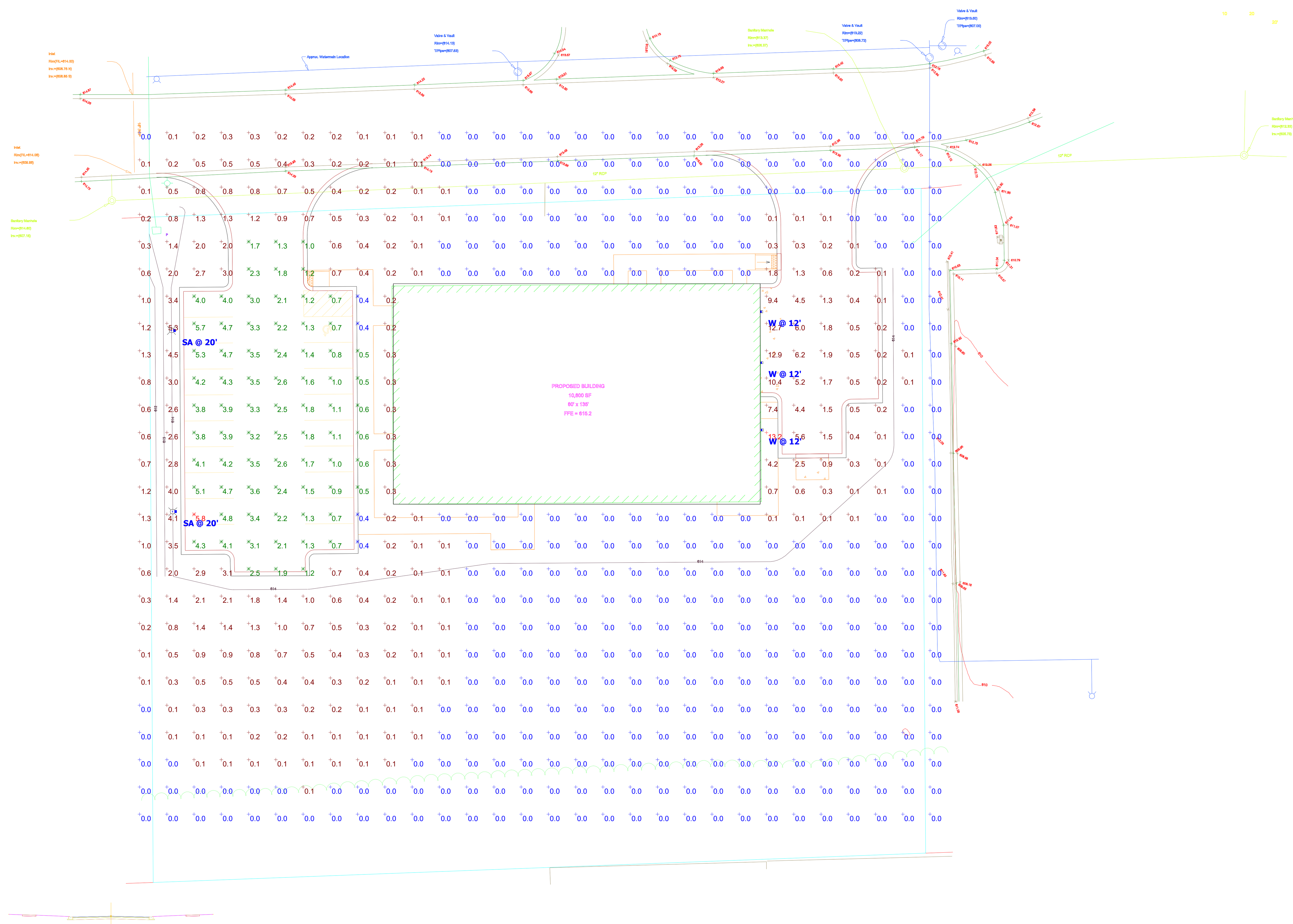
20973

Schedule																	
Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Lumen Multiplier	Light Loss Factor	Wattage	Efficiency	Distribution	Plot	Notes
	SA		2	Lithonia Lighting	DSX1 LED P6 40K T4M MVOLT	DSX1 LED P6 40K T4M MVOLT	LED	1	DSX1_LED_P6_40K_T4M_MVOLT.ies	18634	1	0.95	163	100%	TYPE IV, SHORT, BUG RATING: B3 - U0 - G4	 Max: 10605cd	
	W		3	Lithonia Lighting	WDGE2 LED P4 40K 80CRI VF	WDGE2 LED WITH P4 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT FORWARD OPTIC		1	WDGE2_LED_P4_40K_80CRI_VF.ies	4412	1	0.95	34.96	100%	TYPE III, VERY SHORT, BUG RATING: B1 - U0 - G1	 Max: 2327cd	

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone Entire Site	+	0.7 fc	13.2 fc	0.0 fc	N/A	N/A
Calc Zone Parking Area	✱	2.4 fc	5.8 fc	0.4 fc	14.5:1	6.0:1

Luminaire Locations

		Location				
No.	Label	X	Y	MH	Orientation	Tilt
1	SA	7.10	136.00	20.00	90.00	0.00
2	SA	6.70	202.40	20.00	90.00	0.00
1	W	223.00	209.30	12.00	90.00	0.00
2	W	223.10	190.60	12.00	90.00	0.00
3	W	223.20	165.90	12.00	90.00	0.00



Plan View
Scale - 1" = 30ft

KSA | LIGHTING & CONTROLS

CARE CREMATION CENTER

Designer
D. MIROW
Date
08/12/2021
Scale
Scale as shown
Drawing No.

Summary