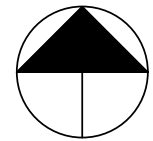




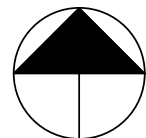
LOCATION MAP



Project Site



VICINITY MAP



Project Site

OLD SCHOOL PARK - MCCORDSVILLE

PERMIT SET

6030 W CR 750 N
MCCORDSVILLE, IN 46055

Sheet List Table	
Sheet Number	Sheet Title
C001	TITLE SHEET
C100	EXISTING TOPOGRAPHY
C110	DEMOLITION PLAN
C300	GRADING PLAN
C400	UTILITY PLAN
C450	UTILITY DETAILS
C500	EROSION CONTROL PLAN
C550	EROSION CONTROL DETAILS
C590	STORM WATER POLLUTION PROTECTION PLAN
L010	TREE PRESERVATION PLAN
L100	MATERIALS PLAN
L101	MATERIALS PLAN
L401	PLANTING PLAN
L410	PLANTING DETAILS
L600	SITE DETAILS
L601	SITE DETAILS
L602	SITE DETAILS
HANNA STREET DRAINAGE IMPROVEMENTS PLANS	

PROJECT DESCRIPTION

RENOVATIONS TO OLD SCHOOL PARK, INCLUDING:

- UPDATED PLAY AREA
- NEW BASKET BALL COURT
- PARKING ALONG HANNA STREET

LAND DESCRIPTION

FROM GIS:
SEC 26 T2N 17N R12E SE
PARCEL #: 30-01-26-103-025.000-018

CONTACT INFORMATION

Owner: Town of McCordsville
6280 W 800 N
McCordsville, IN 46055
(317) 335-3604

Contractor: TBD

Civil Engineer: Gonzalo Castro Diaz, P.E.
Veridus Group
6280 N. Shadeland Ave.
Indianapolis, IN 46220
(317) 598-6647

Landscape Architect: Liz Mooney, PLA, LEED AP, CPSI
Context Design
5825 Lawton Loop East Drive
Indianapolis, IN 46216
(317) 485-6900

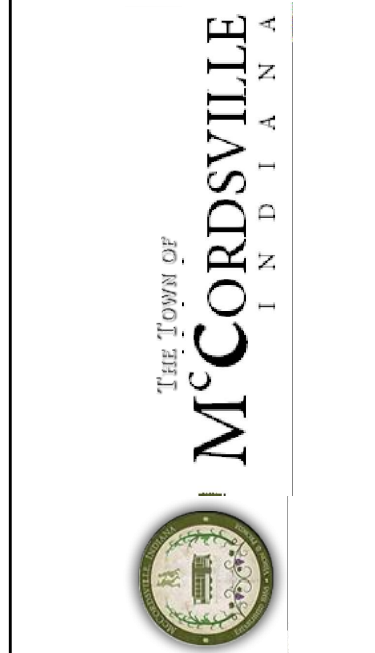
UTILITY STATEMENT

The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

VERIDUS
GROUP
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Suite A
Indianapolis, IN 46220
Phone: (317) 598-6647 |
www.theveridusgroup.com

context
DESIGN

301.485.6900 | www.context-design.com

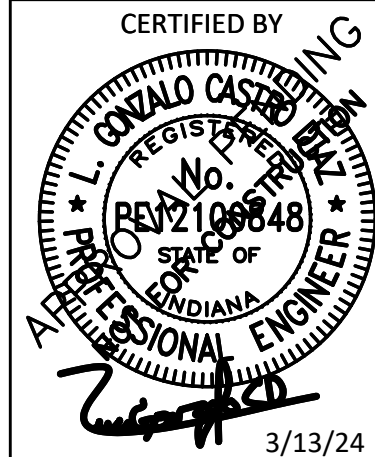


PROJECT
OLD SCHOOL PARK - MCCORDSVILLE
PERMIT SET
6030 W CR 750 N
MCCORDSVILLE, IN 46055

REVISIONS		
NO.	DATE	DESCRIPTION

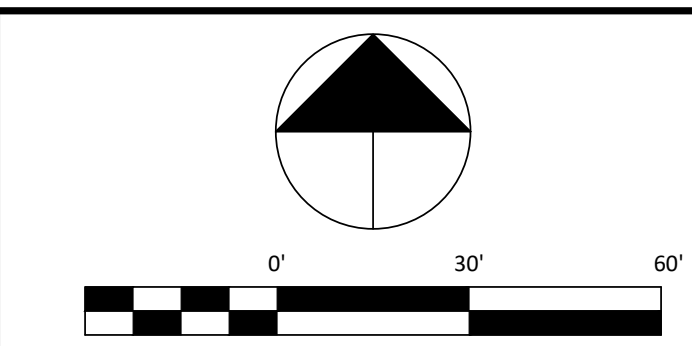
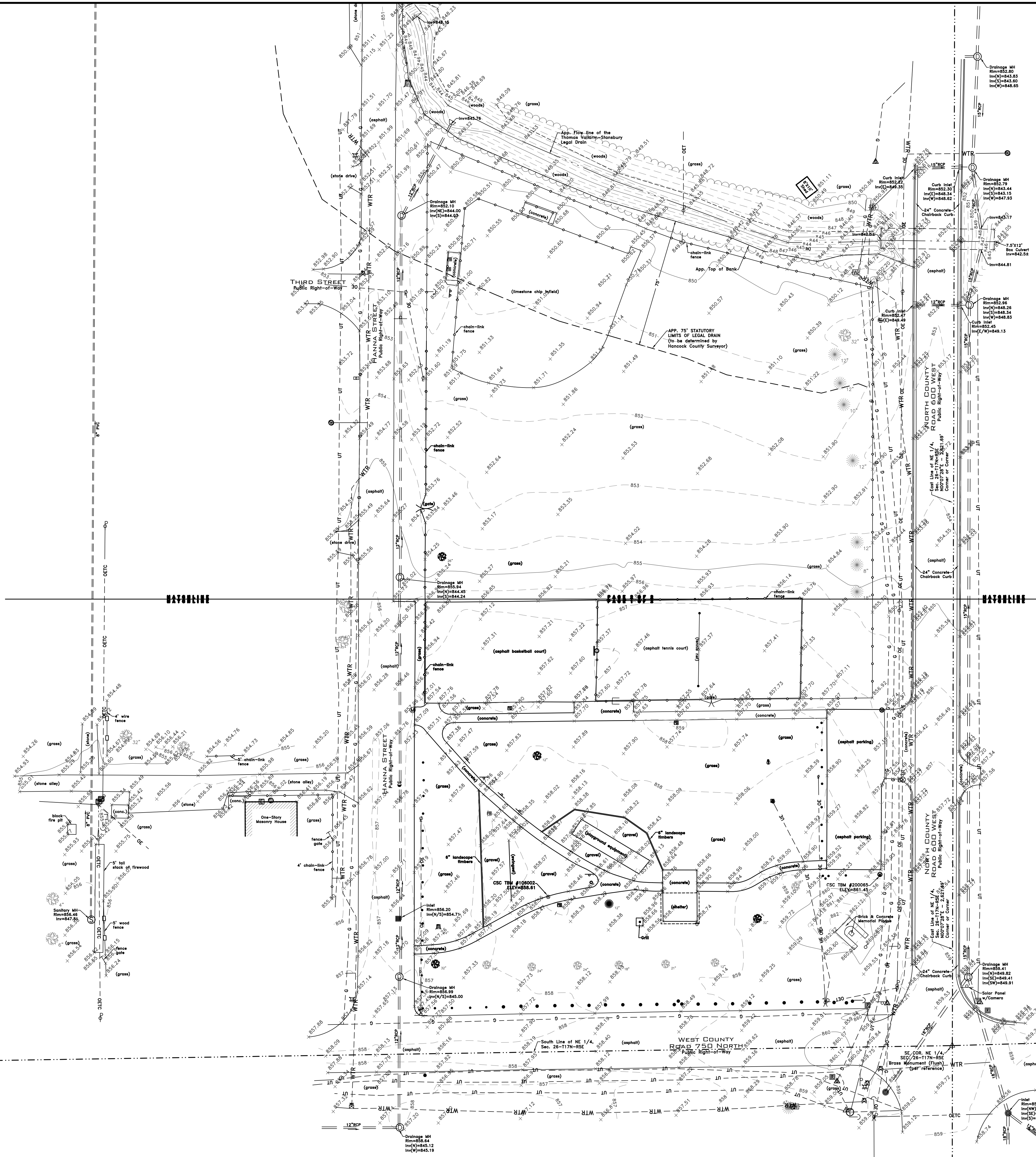
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DRAWN BY: CAR
CHECKED BY: GCD
DRAWING TITLE

TITLE SHEET



CERTIFIED BY
PROJECT NUMBER
2023.0194

DRAWING NUMBER
C001



LAND DESCRIPTION

SEE SHEET C001



PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 23-074, DATED 9/28/23.

GENERAL NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. CONTRACTOR SHALL KEEP ADJOINING PROPERTIES CLEAN OF CONSTRUCTION DEBRIS AND CONSTRUCTION TRAFFIC AT ALL TIMES.
3. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE BASE SURVEY CONTROL POINTS DURING DEMOLITION AND CONSTRUCTION.
4. ALL UTILITY INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR. CONTACT ENGINEER IMMEDIATELY IF ANY VARIATION EXISTS.
5. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

EXISTING LEGEND

LEGEND:	
SYMBOL	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE/FIRE HYD/METER
	TELE/FIBER OPTIC/GAS MARKER
	GAS METER / VALVE
	CLEAN-OUT
	ELEC. METER BOX/TRANSFORMER
	ELEC. / TELEPHONE PEDESTAL
	GUARD POST/POST WITH LIGHT
	AIR CONDITIONER / GENERATOR
	MAGNAIL SET/FOUND
	REBAR SET/FOUND
	SQUARE / ROUND / CURB INLET
	TRAFFIC/COMBO/ POWER POLE
	LIGHT POLE - SQUARE / ROUND
	CONIFEROUS TREE & SIZE
	DECIDUOUS TREE & SIZE
	DRAINAGE /SANITARY MANHOLE
	COMBINATION/MISC. LID MANHOLE
	BEEHIVE ROUND/SQUARE INLET
	GUY WIRE / GROUND LIGHT
	UND.G. WATER LINE
	UND.G. GAS LINE
	UND.G. TELEPHONE LINE
	UND.G. ELECTRIC LINE
	OVERHEAD ELE. & TEL
	OVERHEAD ELE TEL & CAB
	OVERHEAD ELECTRIC
	vitrified clay pipe
	reinforced concrete pipe
	polyethylene coated pipe
	high-density polyethylene pipe
	ductile iron pipe

BENCHMARK DATA

H 235-121
ELEVATION (RECORDED) 856.828 (NAVD)
ELEVATION (OBSERVED) 856.306 (NAVD 88)

A DISK SET IN THE NORTHWEST CORNER OF A 32' FOOT CONCRETE BRIDGE OVER THE STANBURY AND SCHULTZ REGULATED DRAIN. IT IS LOCATED 0.2 MILES SOUTH OF STATE ROAD 67, 281 FEET EAST OF THE PHYSICAL CENTERLINE OF NORTH COUNTY ROAD 600 WEST AND 12.5 FEET NORTH OF THE PHYSICAL CENTERLINE OF WEST COUNTY ROAD 750 NORTH.

CSC TBM #200065 ELEVATION 861.45
MAG NAIL FOUND IN TOP OF WOODEN GUARD POST AT THE SOUTHEASTERN CORNER OF THE OLD TOWN PARK ASPHALT PARKING LOT ON THE NORTHWESTERN QUADRANT OF CR 600W AND CR 750N.

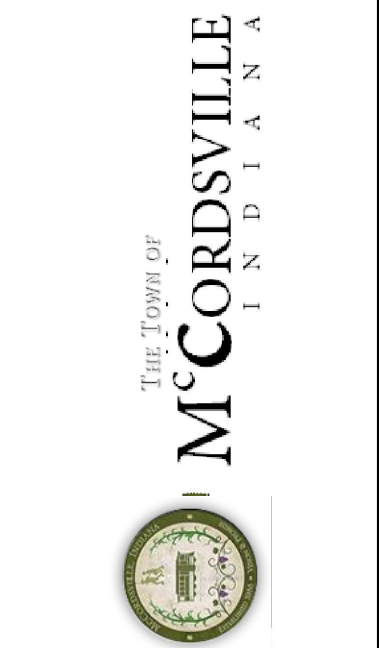
CSC TBM #106002 ELEVATION 856.61
A "CUT" "X" SET ON THE NORTH SIDE OF THE SOUTHWEST/NORTHEAST BRANCH OF THE CONCRETE WALK, NORTH OF A PARK BENCH, APPROXIMATELY 100 FEET EAST OF THE CENTER OF HANNA STREET AND 90 FEET NORTH OF THE CENTER OF CR 750N.



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Indianapolis, IN 46220
Phone: (317) 598-6647 |
www.theveridusgroup.com



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PROJECT
OLD SCHOOL PARK - MCCORDSVILLE
PERMIT SET
6030 W CR 750 N
MCCORDSVILLE, IN 46055

REVISIONS		
NO.	DATE	DESCRIPTION

ISSUE DATE: 3/13/24
DRAWN BY: CAR
CHECKED BY: GCD

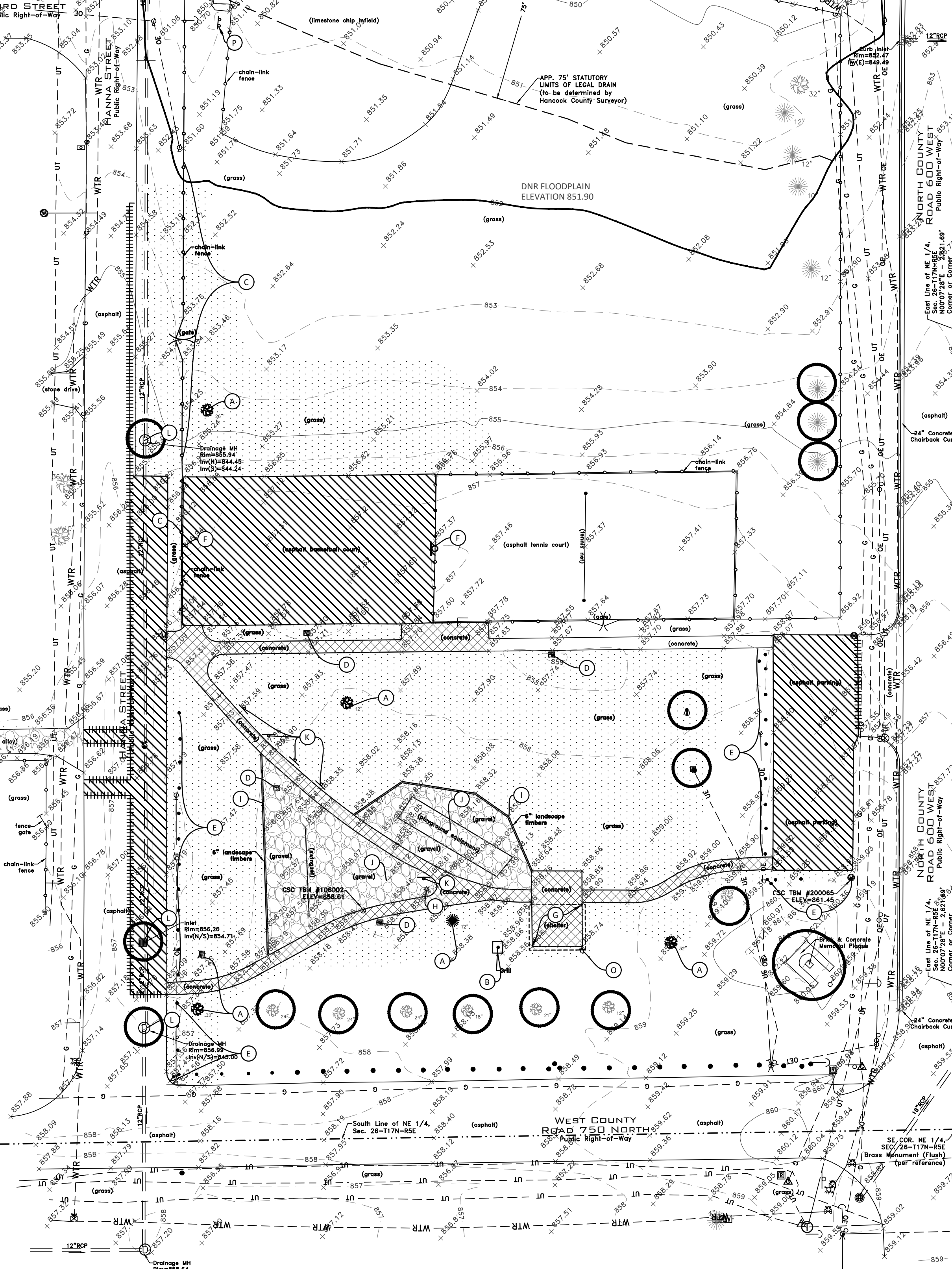
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EXISTING TOPOGRAPHY

CERTIFIED BY



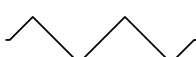



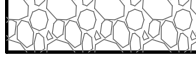

PROJECT NUMBER
2023.0194

DRAWING NUMBER

C100



DEMOLITION LEGEND

-
- Legend for construction symbols:
-  CONCRETE CURB & GUTTER
 -  SAWCUT PAVEMENT
 -  REMOVE UTILITY
 -  REMOVE BRICK
 -  REMOVE CONCRETE
 -  REMOVE VEGETATION AS NECESSARY FOR CONSTRUCTION
 -  REMOVE GRAVEL
 -  OBJECT TO BE PROTECTED

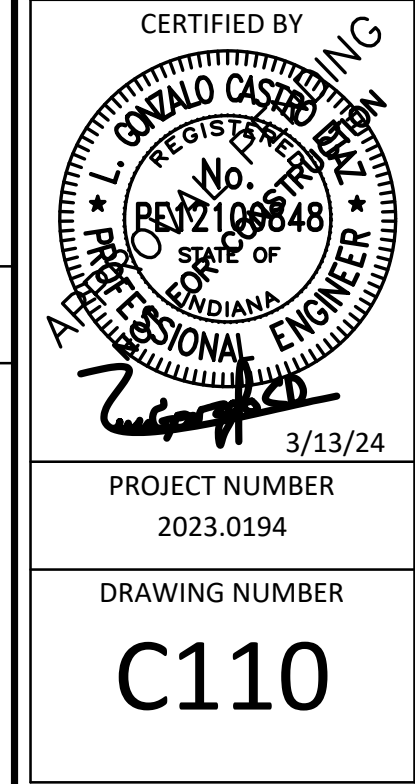
BENCHMARK DATA

H 235-121
ELEVATION (RECORDED) 856.828 (NAVD
ELEVATION (OBSERVED) 856.306 (NAVD 88)

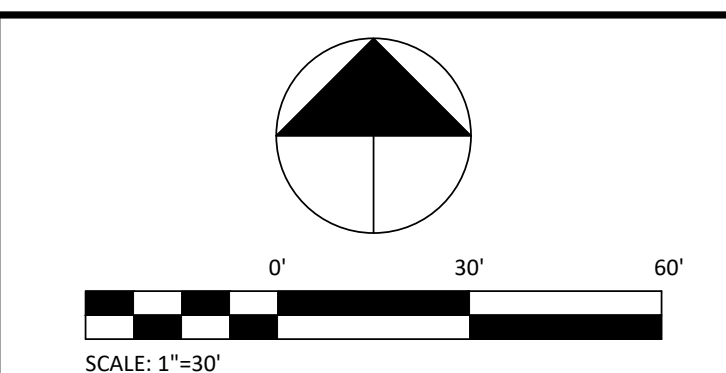
A DISK SET IN THE NORTHWEST QUARTER OF A 32 FOOT CONCRETE BRIDGE
CROSSING THE RIVER AND SCENE REGULATED GRASS. IT IS LOCATED 0.2
MILES SOUTH OF STATE ROAD 67, 281 FEET EAST OF THE PHYSICAL CENTERLINE
OF NORTH COUNTY ROAD 800 WEST AND 12.5 FEET NORTH OF THE PHYSICAL
CENTERLINE OF WEST COUNTY ROAD 750 NORTH.

CSC TM 0200065 ELEVATION 861.45
MAG NAIL FOUND IN TOP OF WOODEN GRADING POST AT THE SOUTHEASTERN
CORNER OF 1/4 SECTION 10 TO TOWN PARKING LOT ON THE NORTHWEST
QUARTER OF CR 600W AND CR 750N.

CSC TM 0106002 ELEVATION 858.61
A CUT "X" SET ON THE NORTH SIDE OF THE SOUTHWEST/NORTHEAST RANCH
OF THE CONCRETE WALK, NORTH OF A PARK BENCH, APPROXIMATELY 100 FEET
EAST OF THE CENTER OF HANNA STREET AND 90 FEET NORTH OF THE CENTER
OF CR 750N.

[illegible]

DEMOLITION PLAN

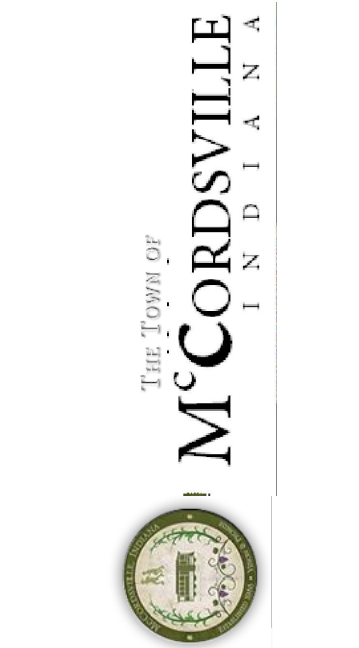


GRADING LEGEND

GENERAL NOTES

EXISTING LEGEND

BENCHMARK DATA



PROJECT
OLD SCHOOL PARK - MCCORDSVILLE
PERMIT SET
6030 W CR 750 N
MCCORDSVILLE, IN 46055

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ISSUE DATE: 3/13/24	
DRAWN BY CAR	CHECKED BY GCD
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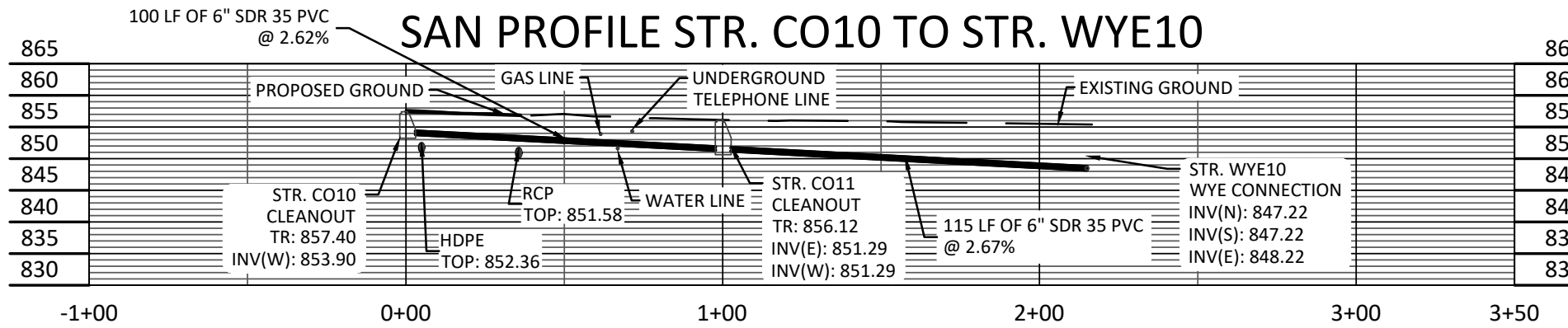
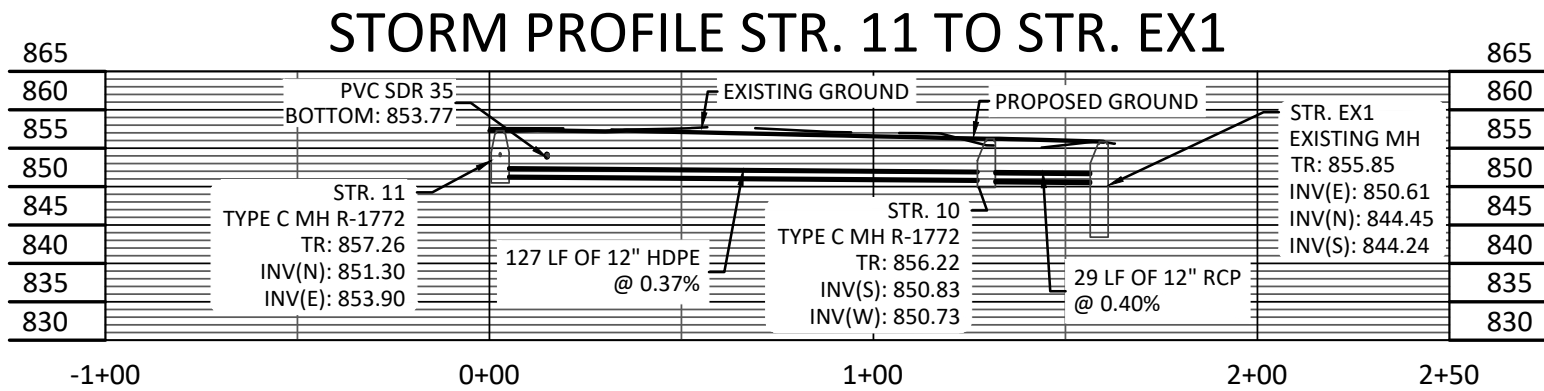
GRADING PLAN

PROJECT NUMBER
2023.0194
DRAWING NUMBER

DRAWING NUMBER

C300

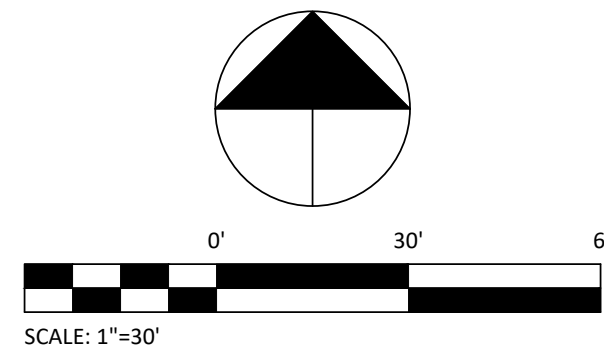
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DRAWN BY: CROBINSON
EDIT DATE: 3/8/24 1:20 PM
EDITED BY: CROBINSON



SCALE: 1"=50'

STRUCTURE DATA TABLE						
STR. NO.	STRUCTURE AND CASTING TYPE	TOP OF RIM	INVERT	SIZE	DIRECTION	REMARKS
10	TYPE C MH R-1772	856.22	850.83 850.73	12" 12"	S W	
11	TYPE C MH R-1772	857.26	853.90 851.30	6" 12"	E N	
EX1	EXISTING MH	855.85	850.61 844.45	12" 12"	E N	
EX2	TYPE C MANHOLE	859.21	854.71	12"	N	

STRUCTURE DATA TABLE						
STR. NO.	STRUCTURE AND CASTING TYPE	TOP OF RIM	INVERT	SIZE	DIRECTION	REMARKS
CO10	CLEANOUT	857.40	853.90	6"	W	
CO11	CLEANOUT	856.12	851.29 851.29	6" 6"	E W	
EX MH 43	EXISTING MANHOLE	851.38	843.67	8"	S	
EX MH 44	EXISTING MANHOLE	856.44	847.81	8"	N	
WYE10	WYE CONNECTION		847.22 848.22 847.22	8" 8" 8"	S E N	



KEYNOTES

DRAINAGE

- SUBSURFACE DRAIN PER DETAIL. 6" PERFORATED DUAL WALL HDPE AT MIN 0.5% SLOPE. CAP UPSTREAM END.
- CORE DRILL STRUCTURE FOR NEW PIPE. REPLACE STRUCTURE IF STRUCTURAL INTEGRITY IS COMPROMISED.

WATER

- TAPPING SLEEVE AND VALVE
- ANSI/AWWA C900, DR18 DOMESTIC WATERLINE
- CONNECTION TO BUILDING AND WATER FOUNTAIN. REFER TO MEP PLANS FOR CONTINUATION.
- 3/4" METER
- LOCATE WATER LINE. CONFIRM 18" OF SEPARATION FROM SANITARY LATERAL. IF 18" IS NOT PROVIDED, NOTIFY ENGINEER. WATER LINE MAY NEED TO BE LOWERED BENEATH NEW SANITARY LATERAL.

SANITARY

- CONNECTION TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION.
- PROTECT EXISTING SYSTEM DURING CONNECTION

ELECTRIC

- CONNECT TO EXISTING ELECTRICAL SYSTEM
- ELECTRICAL CONDUIT PER ELECTRIC PLANS.
- ELECTRICAL CONNECTIONS. REFER TO ELECTRIC PLANS.

GENERAL

- ADJUST UTILITY TO GRADE. REPLACE IF NECESSARY
- MAINTAIN MINIMUM 18" VERTICAL SEPARATION

UTILITY LEGEND

	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	ELECTRIC LINE
	TELEPHONE LINE
	WATER LINE
	VALVE
	WATER METER PIT
	HYDRANT
	CLEANOUT (STORM & SANITARY)

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTIN, LLC. PROJECT NUMBER 23-074, DATED 9/28/23.

GENERAL NOTES

- IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THE PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. EACH SUBCONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
- ALL MATERIALS AND CONSTRUCTION FOR SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
- ALL MATERIALS AND CONSTRUCTION FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
- ALL MATERIALS AND CONSTRUCTION FOR WATER MAINS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS.
- ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- ANY WATER MAINS TO HAVE 54" MINIMUM COVER OVER TOP OF PIPE.
- WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING. (APPLIES TO COMMERCIAL ONLY)
- STERILIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH STATE BOARD OF HEALTH.
- ALL UTILITY CROSSING AND CLEARANCES TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.
- IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY ARE TO BE TIED INTO THE PROPOSED STORM SEWER SYSTEM.
- ALL SEWER PIPES UNDER OR WITHIN 5' OF PAVEMENT SHALL BE BACKFILLED WITH GRANULAR BACKFILL. FOR BACKFILL PURPOSES, PAVED SHOULDERS, CURBS, GUTTER, AND SIDE WALKS ARE CONSIDER PAVEMENT. FOR PIPES WITHIN INDIANA STATE RIGHTS-OF-WAY, BACKFILL SHALL BE PROVIDED PER INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS. LOCAL JURISDICTION REQUIREMENTS MAY DICTATE MORE STRINGENT REQUIREMENTS AT TIME OF CONSTRUCTION AND INSPECTION.
- CONTRACTOR TO PROVIDE SURVEYED AS-BUILT/RECORD DRAWINGS OF ALL STORM SEWERS AND SANITARY SEWER MAINS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.

EXISTING LEGEND

BENCHMARK DATA

H 235-121
ELEVATION (RECORDED) 856.828 (NAVD)
ELEVATION (OBSERVED) 856.306 (NAVD 88)

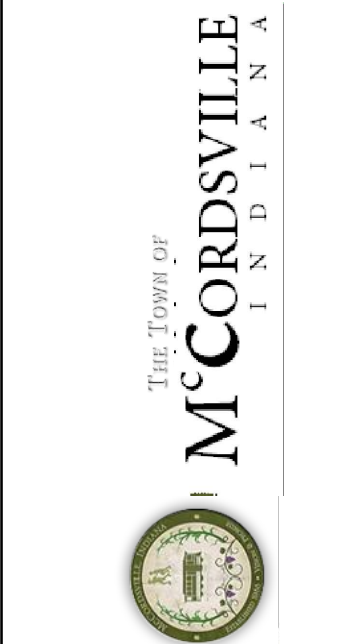
A DISK SET IN THE NORTHWEST WINGWALL OF A 32' FOOT CONCRETE BRIDGE OVER THE STANBURY AND SCHULTZ REGULATED DRAIN. IT IS LOCATED 0.2 MILES SOUTH OF STATE ROAD 67, 281' FEET EAST OF THE PHYSICAL CENTERLINE OF NORTH COUNTY ROAD 600 WEST AND 12.5' FEET NORTH OF THE PHYSICAL CENTERLINE OF WEST COUNTY ROAD 750 NORTH.

CSC TBM #200065 ELEVATION 861.45
MAG NAIL FOUND IN TOP OF WOODEN GUARD POST AT THE SOUTHEASTERN CORNER OF THE OLD TOWN PARK ASPHALT PARKING LOT ON THE NORTHWEST QUADRANT OF CR 600W AND CR 750N.

CSC TBM #106002 ELEVATION 856.61
A "OUT" "X" SET ON THE NORTH SIDE OF THE SOUTHWEST/NORTHEAST BRANCH OF THE CONCRETE WALK, NORTH OF A PARK BENCH, APPROXIMATELY 100' FEET EAST OF THE CENTER OF HANNA STREET AND 90' FEET NORTH OF THE CENTER OF CR 750N.

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6280 N. Shadeland Avenue,
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Indianapolis, IN 46220
Phone: (317) 598-6647 |
www.theveridusgroup.com

context DESIGN
301.400.8800 | www.context-design.com



PROJECT
OLD SCHOOL PARK - MCCORDSVILLE
PERMIT SET
6030 W CR 750 N
MCCORDSVILLE, IN 46055

REVISIONS		
NO.	DATE	DESCRIPTION

ISSUE DATE: 3/13/24
DRAWN BY: CAR
CHECKED BY: GCD
DRAWING TITLE

UTILITY PLAN



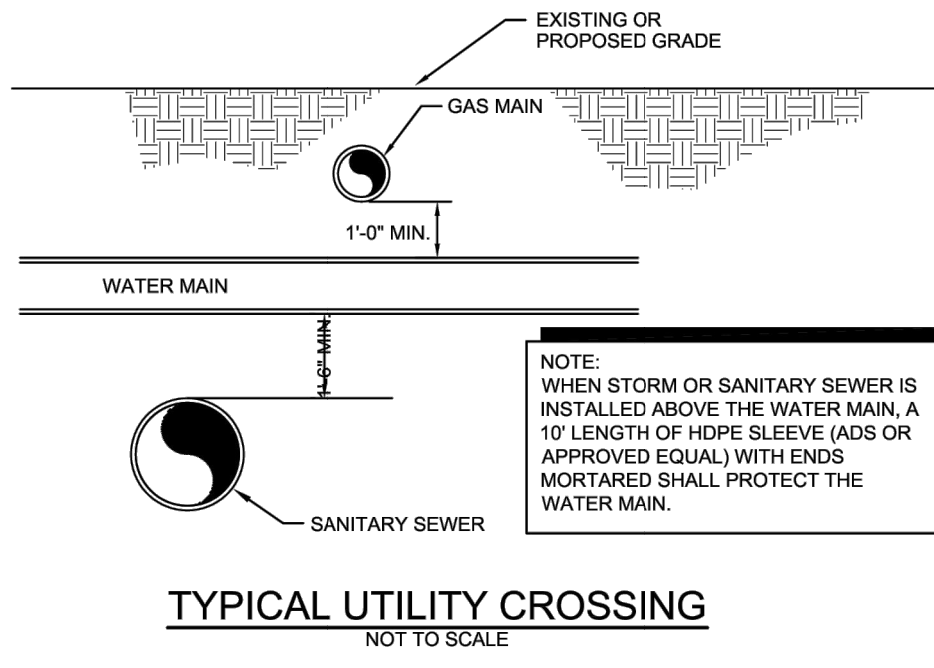
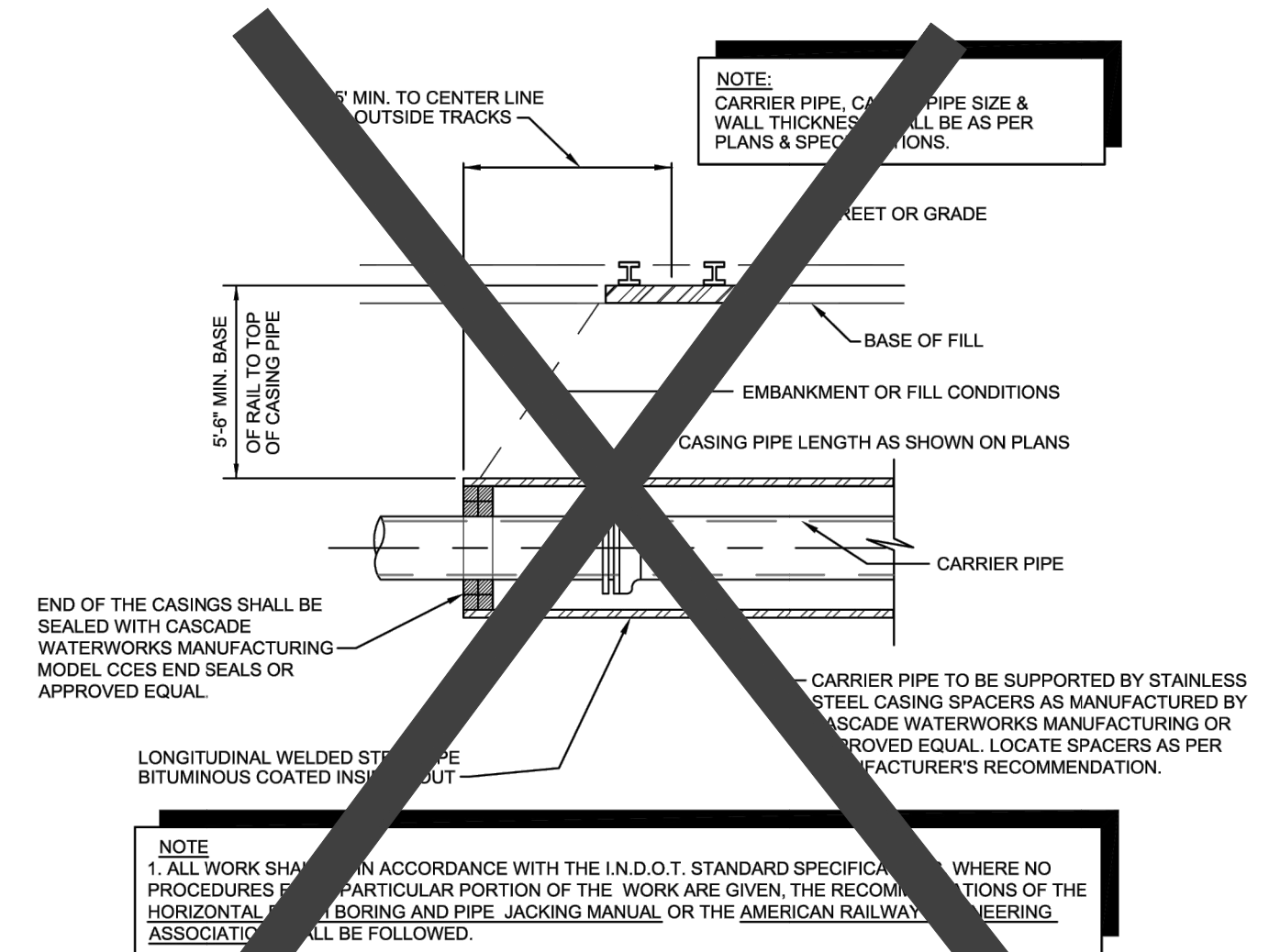
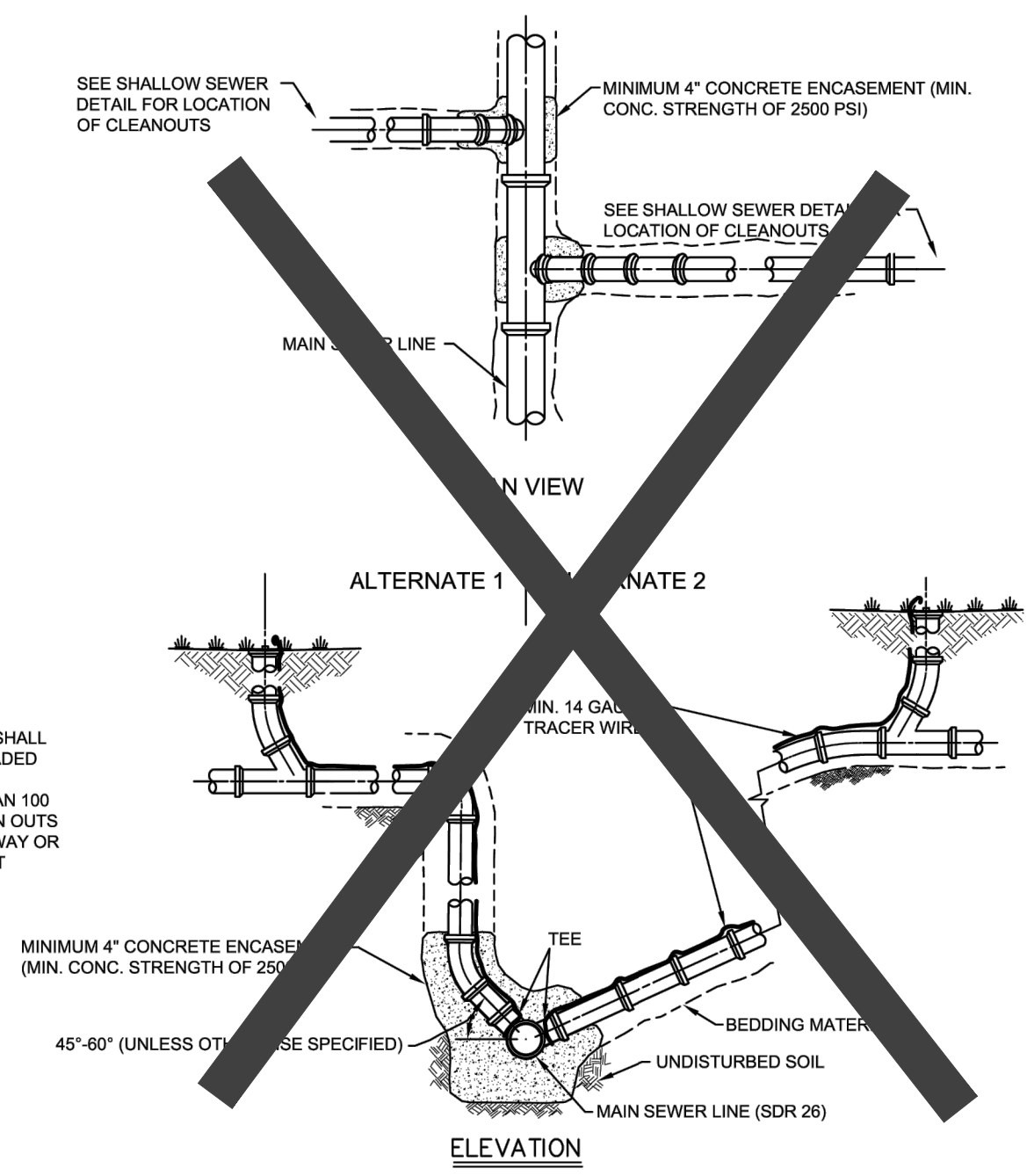
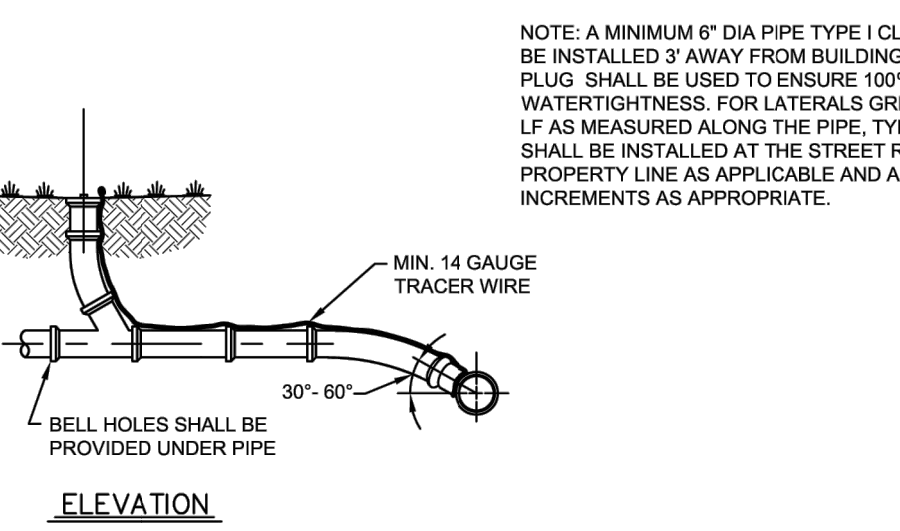
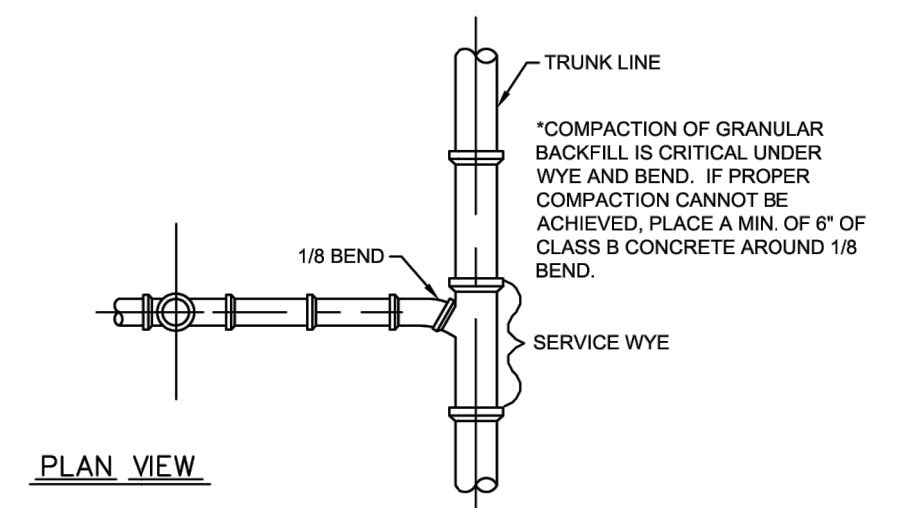
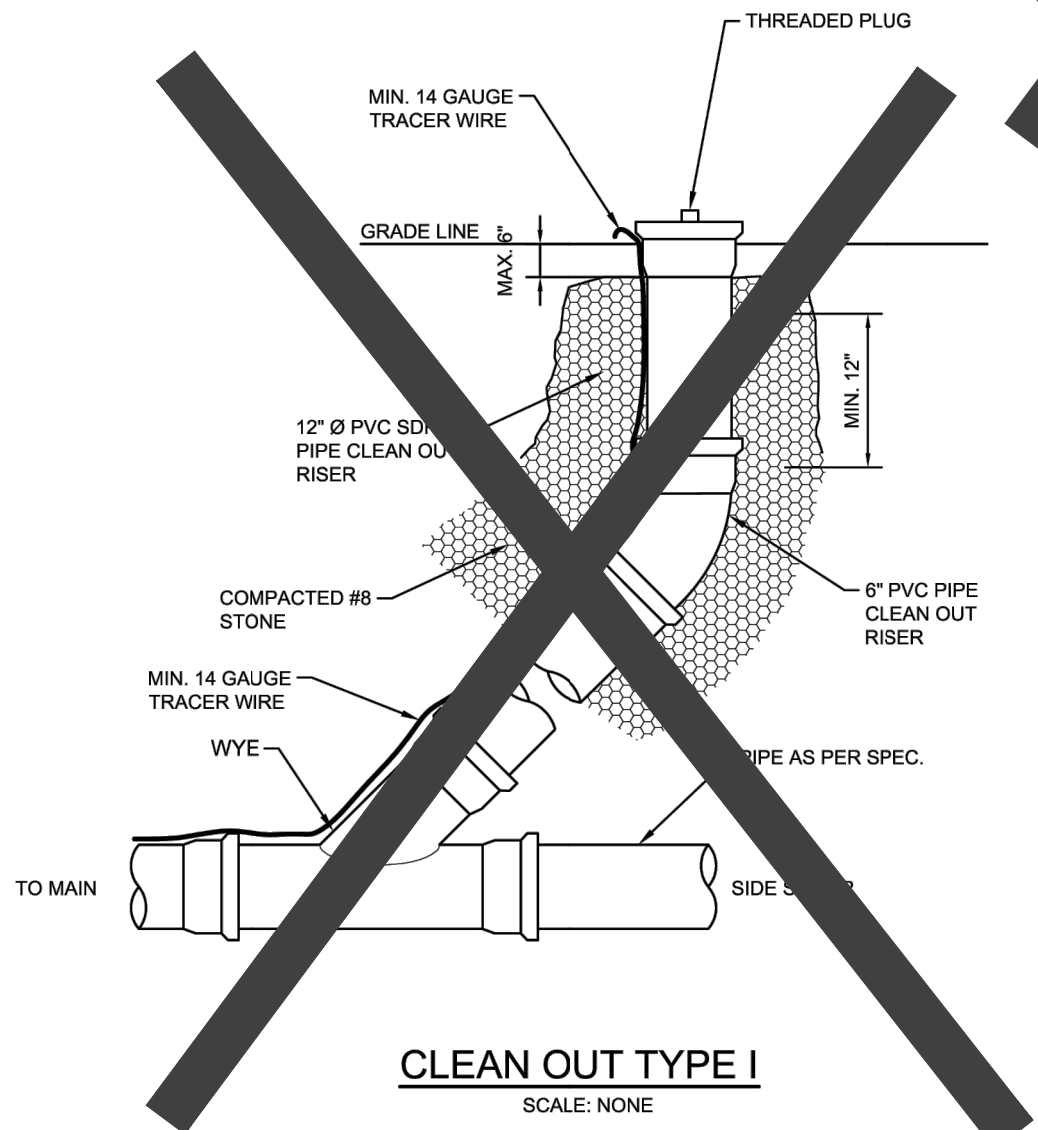
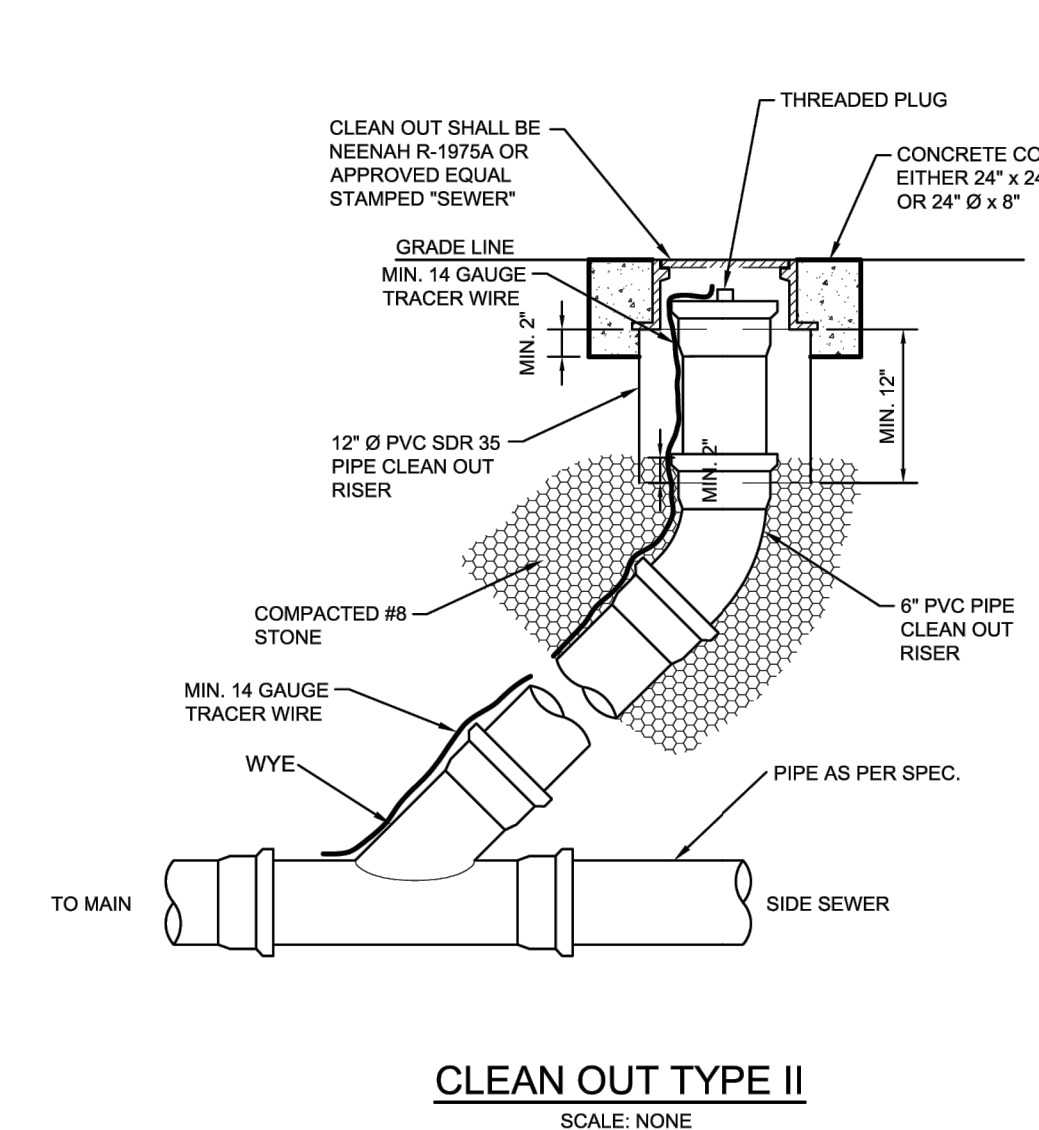
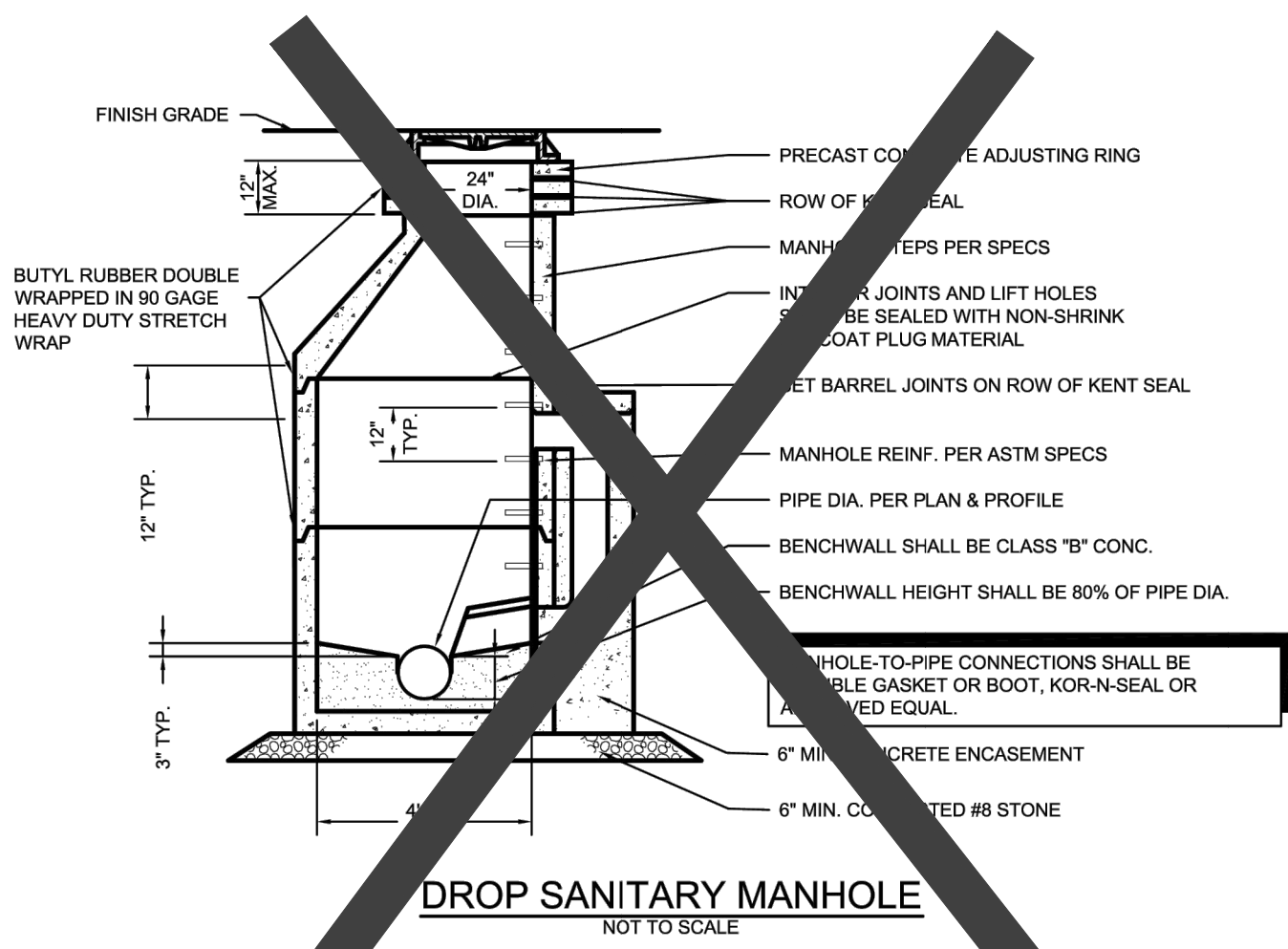
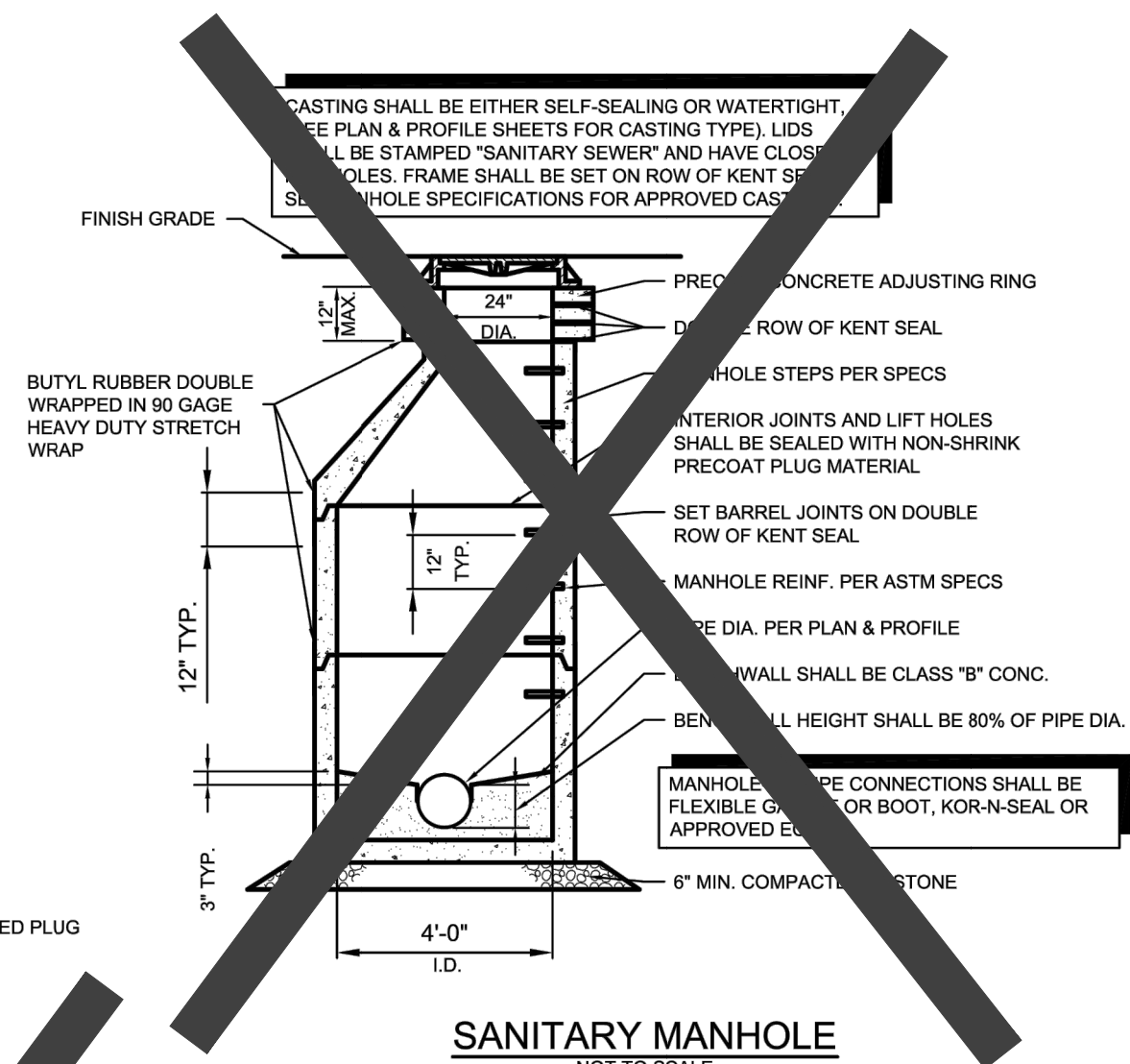
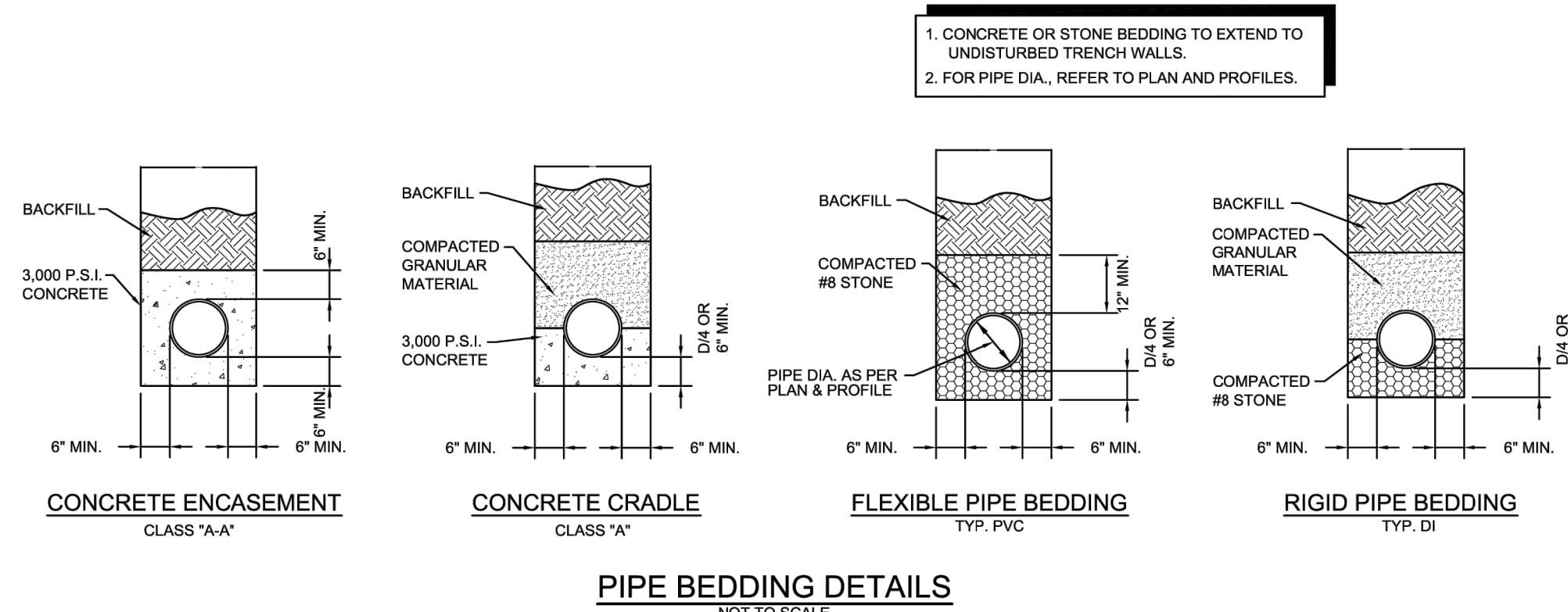
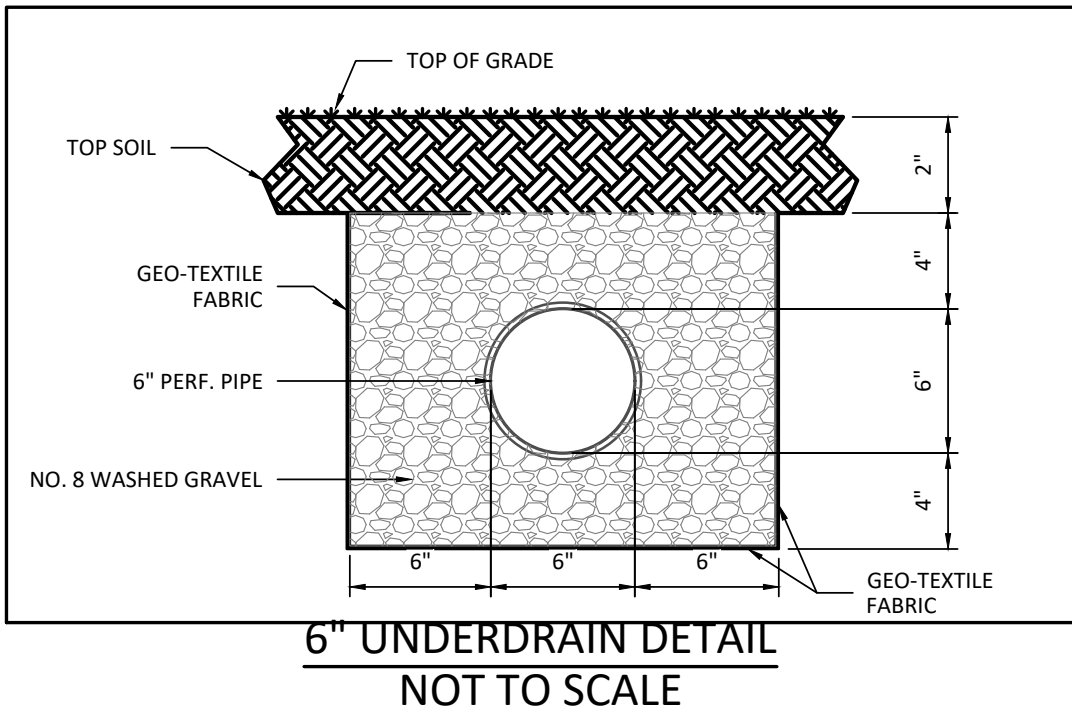
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3/13/24
PROJECT NUMBER
2023.0194
DRAWING NUMBER

C400



PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

PRINT DATE: 3/13/24
PLOT SCALE: 1:1
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DRAWN BY: CROBINSON
EDIT DATE: 3/7/24 - 5:34 PM



REVISIONS		
REV. NO.	DESCRIPTION	DATE

RECOMMEND FOR APPROVAL: *Mark J. Witman* 7/12/05
DESIGN ENGINEER
APPROVED: *Robert J. ...* 7/12/05
PUBLIC WORKS COMMISSIONER
APPROVED: *Mark J. Witman* 7/12/05
TOWN COUNCIL PRESIDENT

TOWN OF MCCORDSVILLE
TOWN STANDARDS
SANITARY SEWER DETAILS
SHEET 9 OF 10

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PROJECT
OLD SCHOOL PARK - MCCORDSVILLE
PERMIT SET
6030 W CR 750 N
MCCORDSVILLE, IN 46055

ISSUE DATE: 3/13/24
DRAWN BY: CAR
CHECKED BY: GCD
DRAWING TITLE: UTILITY DETAILS

CERTIFIED BY
APRIL L. COVALO CASE
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA
No. 2108848
3/13/24

PROJECT NUMBER
2023.0194
DRAWING NUMBER
C450



11. THE SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS INDICATED ON THE FLOOD INSURANCE RATE MAP FOR HANCOC COUNTY, INDIANA PANEL 18059C0018D DATED DECEMBER 4, 2007

1 LAND ALTERATIONS WHICH STRIPS THE LAND OF VEGETATION

- A. THE DURATION OF THE TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS WHEN ACTIVITY CEASES FOR MORE THAN 14 DAYS OR AS DIRECTED BY THE ENGINEER.
- B. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR PERMANENT AND FINAL VEGETATION AND STRUCTURE, EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
- C. STOCKPILES SHALL BE LOCATED AS SHOWN. STOCKPILES SHALL HAVE SILT FENCE AROUND THE PERIMETER AND BE SEEDED IF IT IS UNDISTURBED FOR MORE THAN 14 CONSECUTIVE DAYS.

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DRAWING TITLE

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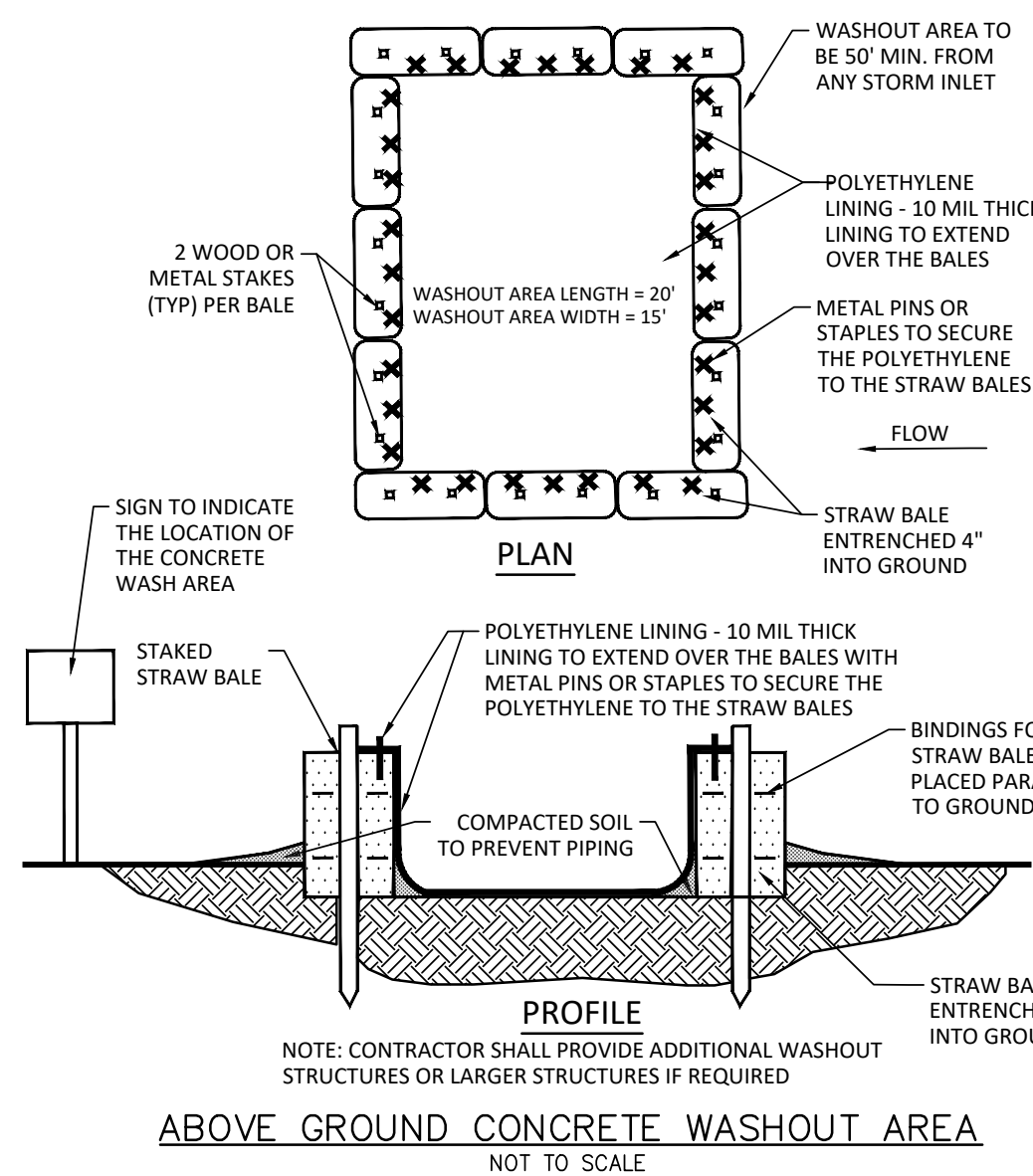
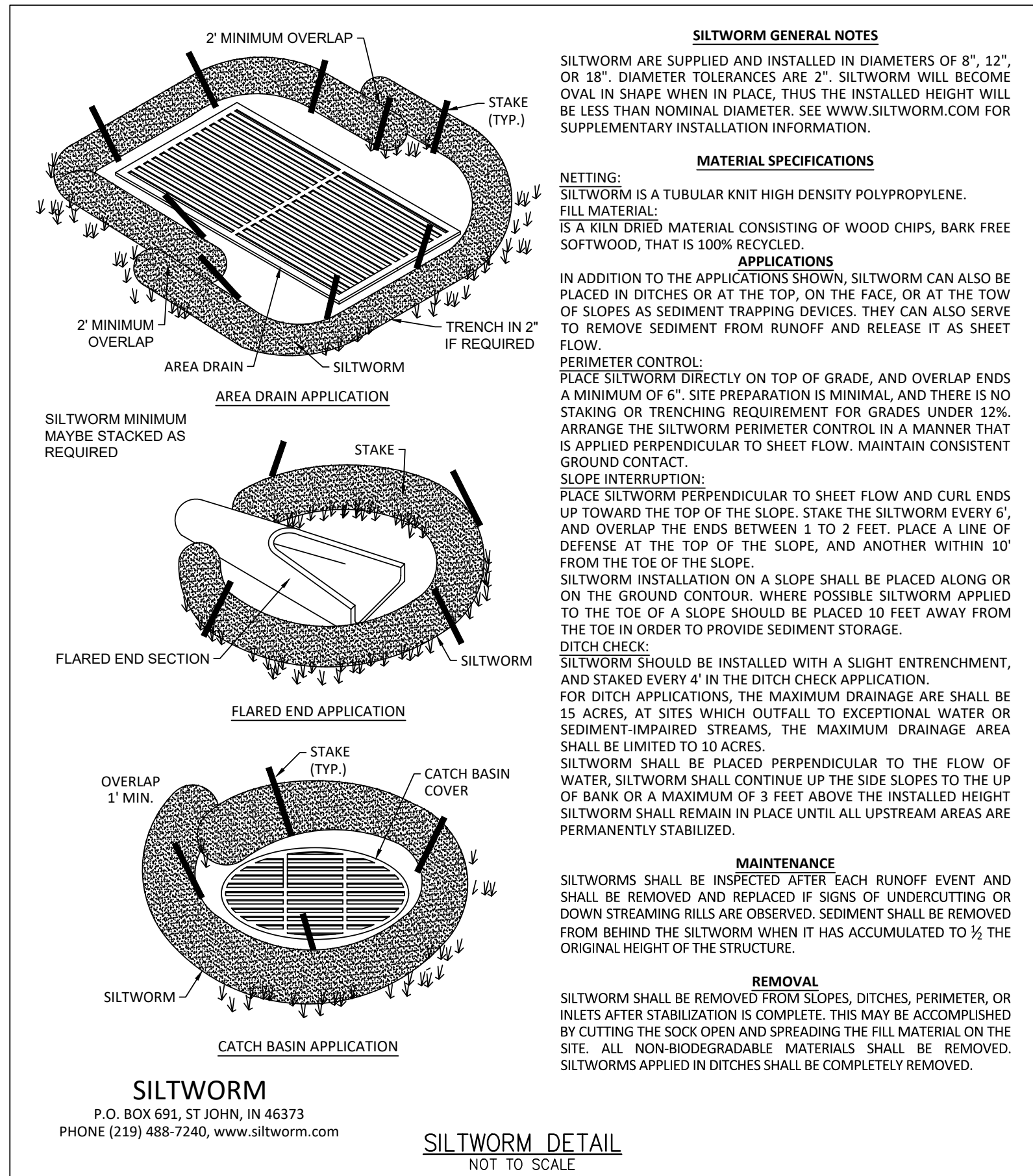
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PROJECT NUMBER

DRAWING NUMBER

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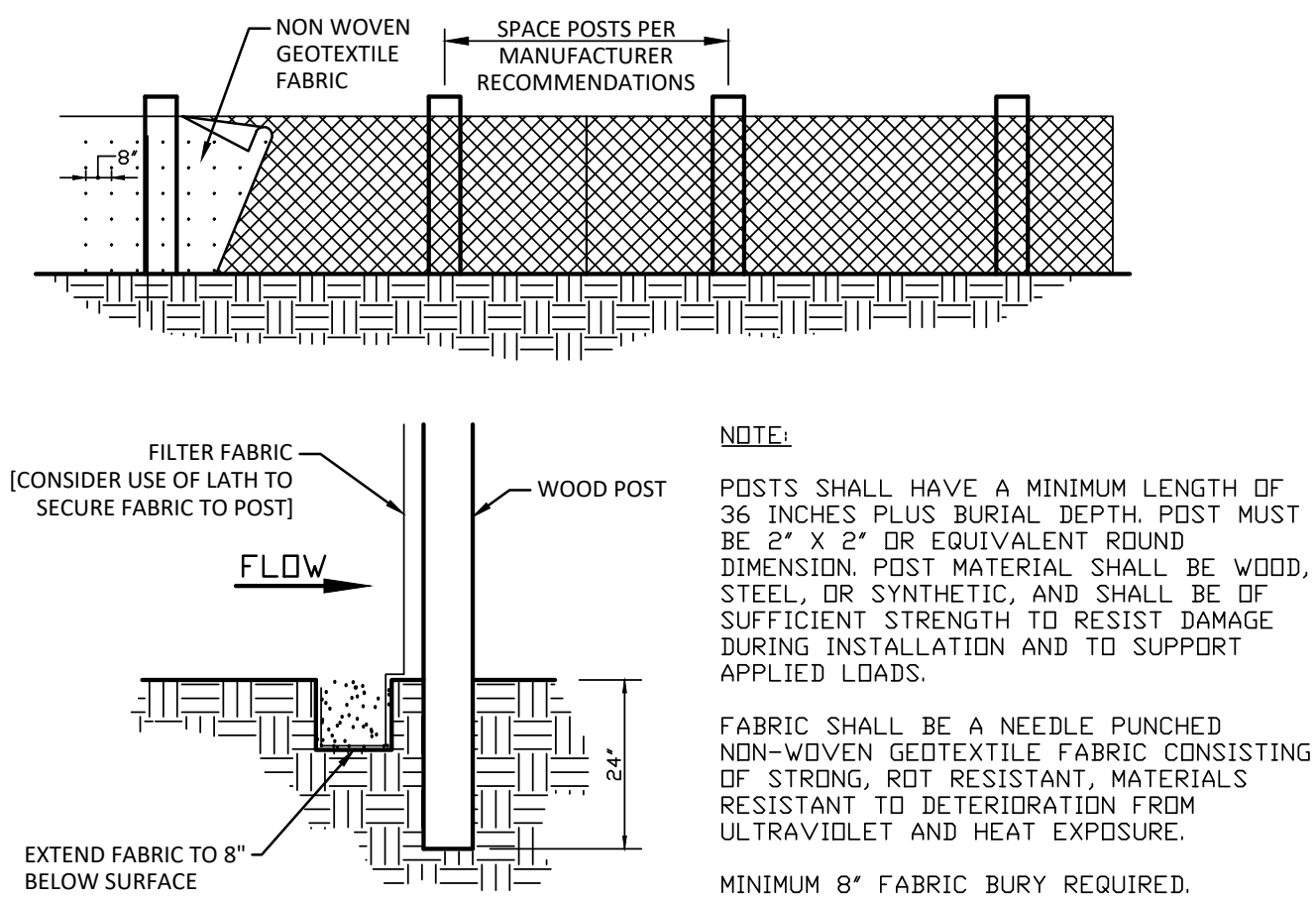
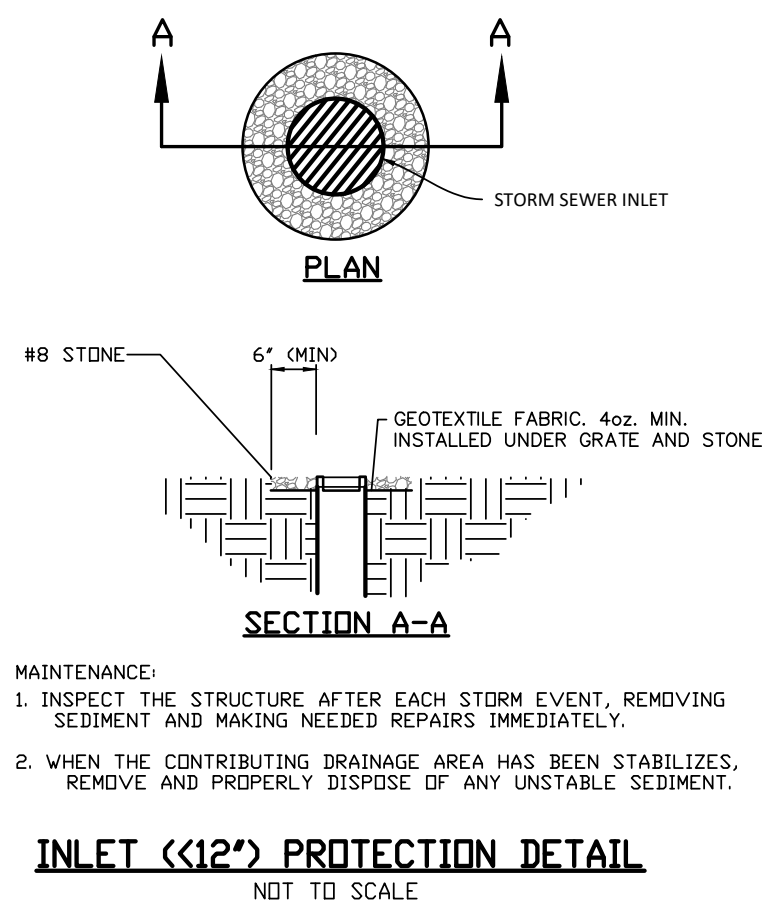
- CONSTRUCTION ACTIVITY SHALL CONSIST OF UTILITIES, GRADING, AND STORM SEWER SYSTEM.
2. PRELIMINARY CONSTRUCTION SCHEDULE: CONSTRUCTION SHALL BEGIN IN THE FALL 2024. COMPLETION OF THE PROJECT IS ANTICIPATED IN 2026. THIS SCHEDULE IS SUBJECT TO CHANGE.
3. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
4. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
5. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
7. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
8. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
9. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
10. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RED-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
11. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE SURROUNDED BY ROCK DONUTS.
12. EXISTING VEGETATION SHALL BE PRESERVED IN AREAS NOT DISTURBED BY CONSTRUCTION ACTIVITY.
13. THERE ARE NO BORROW AREAS OTHER THAN THOSE DESIGNATED.
14. ALL APPLICABLE EROSION CONTROL MEASURES SHALL BE PLACED BEFORE ANY LAND DISTURBING ACTIVITIES.
15. SCHEDULE OF EROSION CONTROL ACTIVITIES:
 - a. INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
 - b. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
 - c. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
16. APPLY FERTILIZER AT A RATE ADEQUATE TO PROVIDE 1 LB. OF ACTUAL NITROGEN PER 1,000 SQUARE FEET. UREA-BASED GRANULAR COMPLETE FERTILIZER OF NEUTRAL CHARACTER CONSISTING OF FAST AND SLOW RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA-FORM, PHOSPHOROUS, AND IN FOLLOWING COMPOSITION:
 - a. FERTILIZER FOR LAWNS: PROVIDE A FAST RELEASE FERTILIZER WITH A COMPOSITION OF 1 LB PER 1,000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM BY WEIGHT.
 - b. SLOW-RELEASE FERTILIZER FOR TREES AND SHRUBS: GRANULAR FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM MADE UP OF A COMPOSITION BY WEIGHT OF 5 PERCENT.
17. ADD LIME TO TOPSOIL TO OBTAIN A pH RANGE OF 6.0 TO 7.0. LIME SHALL BE ASTM C 602, CLASS T, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCULUM EQUIVALENT, WITH A MINIMUM 99 PERCENT PASSING A NO. 8 (2.36 mm) SIEVE AND A MINIMUM 75 PERCENT PASSING A NO. 50 (250 MICROMETER) SIEVE.
19. CONSTRUCTION TRAFFIC SHALL ENTER THE SITE AT THE GRAVEL CONSTRUCTION ENTRANCE AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
20. CONTRACTOR TO SEED ALL DISTURBED AREAS. FINISH GRADE TO BE SEED AND STRAW.
21. CONTRACTOR SHALL MONITOR TRUCK WASHING AND SEDIMENT TRACKING ONTO STREETS. STREET CLEANING WILL BE REQUIRED BY OWNER IF ROADWAYS HAVE SOIL FROM THE SITE TRACKED ONTO THEM.
24. THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIALS IN THE STREET.
25. PORTABLE TOILETS MUST BE ANCHORED



1. LOCATE WASH OUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR BODIES OF WATER. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
2. WASHOUT FACILITIES SHOULD HAVE A TEMPORARY PIT AREA OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND SOLID WASTE CONCRETE MATERIALS GENERATED DURING WASH OUT PROCEDURES.
3. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO WASH OUT PIT.
4. THE WASHOUT FACILITY SHOULD BE A MINIMUM OF 12 INCHES DEEP AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
5. THE CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY FOR PUNCTURES OR TEARS IN THE PLASTIC LINER. THE 12 INCH DEPTH REQUIREMENT SHALL BE MAINTAINED THROUGHOUT THE PROJECT.
6. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREFREED OF 12 INCHES. MAINTAINING TEMPORARY CONCRETE WASH OUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITY TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED OF, IN ACCORDANCE WITH LOCAL STANDARDS.
7. CONCRETE WASHOUT AREAS SHALL BE CLEARLY MARKED WITH LATH & FLAGGING AND A SIGN POSTED AND LABELED "CONCRETE WASHOUT AREA".
8. THE CONCRETE WASH OUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
9. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE WHEN THE WASHOUT IS 75% FULL TO, AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED SITE.

SEASONAL SOIL PROTECTION CHART												
STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NDV.	DEC.
PERMANENT SEEDING			A	X / / / / / / / / / X / /								
DORMANT SEEDING	B →										B →	
TEMPORARY SEEDING			C	→		D			→			

A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; HYDROSEEDED
B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; HYDROSEEDED
C = SPRING OATS 3 BUSHELS/ACRE
D = WHEAT OR RYE 2 BUSHELS/ACRE
E = ANNUAL RYE GRASS 40 LBS./ACRE (1 LB/1000 SQ. FT.)
/I/ = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER



SILT FENCE CONSTRUCTION
NOT TO SCALE

SILT FENCE INSTALLATION REQUIREMENTS:

SITE PREPARATION:

1. PLAN FOR THE FENCE TO BE AT LEAST 10 ft. FROM THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA.
2. PROVIDE ACCESS TO THE AREA IF SEDIMENT CLEANOUT WILL BE NEEDED.

OUTLET CONSTRUCTION (OPTIONAL):

1. DETERMINE THE APPROPRIATE LOCATION FOR A REINFORCED, STABILIZED BYPASS FLOW OUTLET (UNLESS THE FENCE IS DESIGNED TO RETAIN ALL RUNOFF FROM A 2 FOOT WIDE STRIP OF GRASS AT THE FENCE LINE).
2. SET THE OUTLET ELEVATION SO THAT WATER DEPTH CAN NOT EXCEED 1 1/2 FT. AT THE LOWEST POINT ALONG THE FENCE LINE.
3. LOCATE THE OUTLET WEIR SUPPORT POSTS NO MORE THAN 4 FT. APART, AND INSTALLED AT THE SAME ELEVATION. THE WEIR HEIGHT SHOULD BE NO MORE THAN 1 FT. DEEP, 5 FT. WIDE, AND 3 FT. LONG ON LEVEL GRADE.
4. EXCAVATE THE FOUNDATION FOR THE OUTLET SPLASH PAD TO MINIMUMS OF 1 FT. AND 12" WIDE. THE FOUNDATION SHOULD BE 12" LONG ALONG THE FENCE LINE.
5. FILL THE EXCAVATED FOUNDATION WITH INDOT CA-10, 1" STONE, BEING CAREFUL THAT THE FINISHED SURFACE BLENDS WITH THE SURROUNDING AREA, ALLOWING NO OVERFLOW.
6. STABILIZE THE AREA AROUND THE PAD.

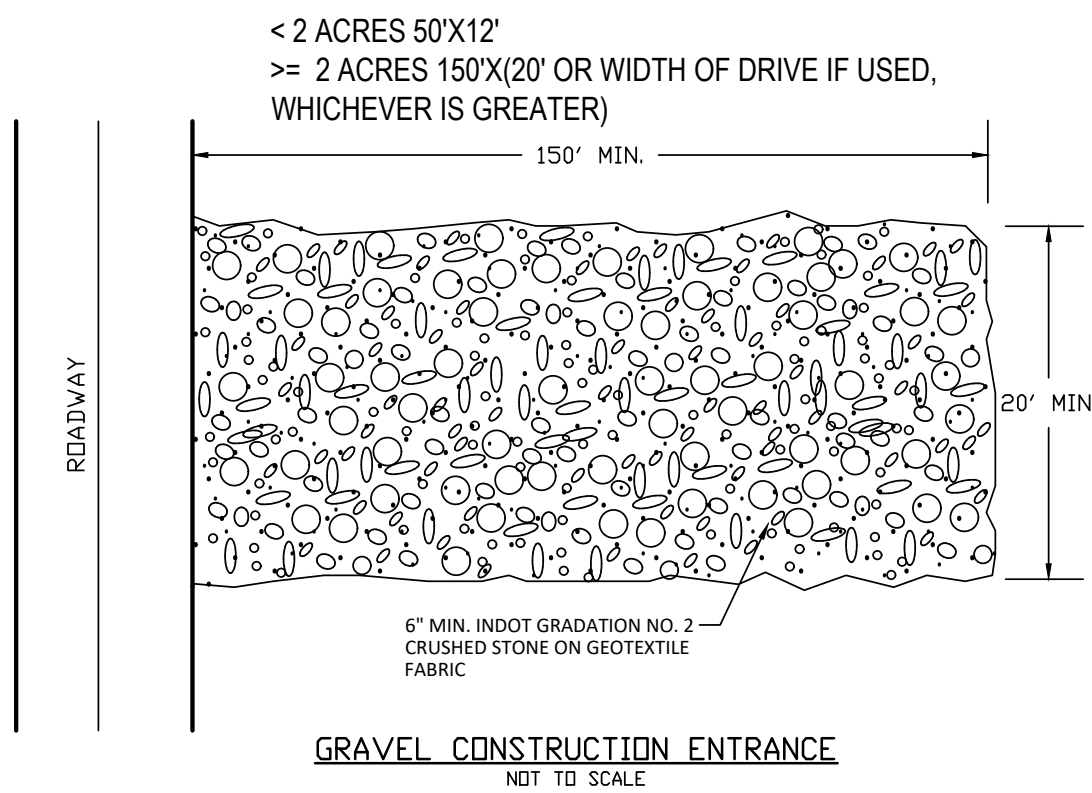
FENCE CONSTRUCTION

1. ALONG THE ENTIRE EXTENDED FENCE LINE, DIG AN 8 in. DEEP FLAT-BOTTOMED OR V-SHAPED TRENCH.
2. DIG THE DOWNSIDE SLOPE OF THE TRENCH, DRIVE THE WOOD OR STEEL SUPPORT POSTS 12 TO 18 in. INTO THE GROUND (THE DEEPER THE BETTER), SPACING THEM NO MORE THAN 6 ft. APART IF THE FENCE IS SUPPORTED BY WIRE OR 6 ft. IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING IF THE TRENCH IS DEEPER THAN 8 in. TO ACCOMMODATE THE DEEPER POSTS.
3. IF THE FENCE LINE (NOTE) IF THE FENCE HAS PRE-ATTACHED POSTS OR STAKES, DRIVE THEM DEEP ENOUGH SO THE FABRIC IS SATISFACTORILY IN THE TRENCH AS DESCRIBED IN STEP 6.)
4. FASTEN THE SUPPORT FABRIC TO THE POSTS BY THE MANUFACTURER'S INSTRUCTIONS TO THE UPSLOPE SIDE OF THE POSTS, EXTENDING IT 8 in. INTO THE TRENCH.
5. RUN A CONTINUOUS LENGTH OF GEDTEXTILE FABRIC IN FRONT (UPSLOPE) OF THE UPSLOPE FABRIC AND POSTS, AVOIDING JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE.
6. IF A JOINT IS NECESSARY, NAIL THE OVERLAP TO THE NEAREST POST WITH LATH.
7. PLACE THE BOTTOM 1 ft. OF FABRIC IN THE 8 in. DEEP TRENCH, EXTENDING THE FABRIC 4 in. TOWARD THE UPSLOPE.
8. BACKFILL THE TRENCH WITH COMPACTED EARTH OR GRAVEL.

NOTE: IF USING A PRE-PACKED COMMERCIAL SILT FENCE RATHER THAN CONSTRUCTING ONE, FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SILT FENCE MAINTENANCE REQUIREMENTS:

1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
2. IF FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REMOVE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
4. AVOID AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE INSTALLATION REQUIREMENTS

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA, AND GRADE AND CROWN FOR POSITIVE DRAINAGE.
3. IF SLOPE TOWARDS THE ROAD EXCEEDS 2% CONSTRUCT A 6-8 IN. HIGH WATER BAR (GRADE) WITH 24" SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FT. FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
4. INSTALL PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
5. PLACE STONE TO DIMENSIONS AND GRADE SHOWN IN THE EROSION/SEDIMENT CONTROL PLAN, LEAVING THE AVERAGE SWATH AND SLOPE FOR FIB DRAINAGE.
6. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS

1. INSPECT ENTRANCE PAD AND SEDIMENT AREA WEEKLY AND AFTER STORM EVENTS OF HEAVY USE.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOP DRESS WITH CLEAN STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT ROCK TRAP OR BASIN.
5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

SITE NAME	
The area scheduled for construction is known as "OLD SCHOOL PARK - MCCORDSVILLE" (hereinafter referred to as the "Project").	
OWNER'S INFORMATION	
Name:	TOWN OF MCCORDSVILLE
Address:	6280 W 800 N
Representative:	TIM GROPP
Title:	TOWN MANAGER
Telephone:	(317) 335-3151
OPERATOR'S INFORMATION	
Name:	TOWN OF MCCORDSVILLE
Address:	6280 W 800 N
Representative:	TIM GROPP
Title:	TOWN MANAGER
Telephone:	(317) 335-3151
NOTICE OF INTENT	
All parties defined as owners or operators must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an operator is defined as any party meeting either of the following requirements:	
a) The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications.	
b) The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.	
A1 INDEX OF THE LOCATION OF REQUIRED PLAN ELEMENTS IN THE CONSTRUCTION PLANS	
Refer to the Site Plan.	
A2 VICINITY MAP	
Refer to Title Sheet	
A3 PROJECT NARRATIVE	
PARK RENOVATIONS TO REDO THE PLAYGROUND, ADD BATHROOMS, WATER FOUNTAIN, NEW BASKETBALL COURT AND PARKING, WITH ASSOCIATED GRADING AND DRAINAGE.	
A4 PROJECT LOCATION	
The property is located at McCordsville Play Park, between N Hanna St and N 600 W in MCCORDSVILLE, IN 46055, at a latitude of 39°53'30.88" N and a longitude of 85°55'10.70" W.	
A5 LEGAL DESCRIPTION OF THE PROJECT SITE	
SEE SHEET C001	
A6 11" x 17" PLAT	
Refer to the Site Plan.	
A7 100-YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES	
The main project area is located in an unshaded Zone "X" (areas determined to be outside the 0.2 percent annual chance floodplain) as indicated on the HANCOCK COUNTY, INDIANA Flood Insurance Rate Map 18059C0018D dated12/4/2007.	
The north portion of the lot is located in a shaded Zone "AE" (areas determined to within the special flood hazard areas) as indicated on the HANCOCK COUNTY, INDIANA Flood Insurance Rate Map 18059C0018D dated12/4/2007.	
A8 ADJACENT LAND USE	
North:	RESIDENTIAL
East:	CEMETERY
South:	RESIDENTIAL/AGRICULTURAL
West:	RESIDENTIAL
A9 IDENTIFICATION OF U.S. EPA APPROVED OR ESTABLISHED TMDL	
N/A	
A10 IDENTIFICATION OF ALL RECEIVING WATERS	
THOMAS VAILARM-STANSBURY REGULATED DRAIN is the ultimate receiving water for the project area.	
A11 IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(D) LIST OF IMPARED WATERS AND THE POLLUTANT(S) FOR WHICH IT IS IMPAIRED	
N/A	
A12 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS	
The Natural Resources Conservation Service (NRCS) Web Soil Survey of HANCOCK County, Indiana, indicates BROOKSTON SILTY CLAY AND CROSBY SILT LOAM are located on the site.	
The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geofabric within or under the pavement system, or treatment of the subgrade with lime.	
A13 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE	
NO WETLANDS, LAKES OR WATERCOURSES HAVE BEEN IDENTIFIED ON THE SITE THAT MAY BE IMPACTED BY STORMWATER DISCHARGES AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES.	
A14 STATE AND FEDERAL WATER QUALITY PERMITS	
IDEM GSCP	
A15 IDENTIFICATION AND DELINEATION OF EXISTING COVER, INCLUDING NATURAL BUFFERS	
THERE IS NO IMPACT TO EXISTING WATERBODY'S NATURAL BUFFER. THE EXISTING AREA ENCOMPASSES THE EXISTING PARK.	
A16 EXISTING SITE TOPOGRAPHY	
Refer to the Existing Topography Plan	
A17 LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE	
Run-off enters the project site from the south and sheet flows across the site to the north.	
A18 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE	
STORMWATER DRAINAGE FROM THE SITE WILL BE CONVEYED BY A PROPOSED STORM SEWER/UNDERDRAIN SYSTEM AND TO AN EXISTING STORM NETWORK ALONG THE WEST SIDE OF THE SITE.	
A19 LOCATION OF ALL EXISTING STRUCTURES ON PROJECT SITE	
Refer to the Utility Plan (C400s)	
A20 EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PORPOSE OF STORMWATER MANAGEMENT	
THERE ARE NO PERMANENT RETENTION OR DETENTION FACILITIES LOCATED ON THE SITE.	
A21 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUND WATER	
There are no locations on site where surface water may be discharged into ground water.	
A22 PROJECT ACREAGE	
Total Acreage:	3.03 Acres
A23 PROJECT LAND DISTURBANCE	
Proposed Land Disturbance:	1.57 Acres
A24 PROPOSED FINAL SITE TOPOGRAPHY	
Refer to the Grading Plan (C300s)	
A25 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS	
Approximate boundaries of disturbed areas are as identified on the Erosion Control Plan.	
A26 LOCATIONS, SIZE, AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS SUCH AS CULVERTS, STORMWATER SEWER, AND CONVEYANCE CHANNELS	
Refer to Utility Plan (C400s)	

A27 LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE	
REFER TO THE GRADING PLAN (C300s). THE SUBSURFACE DRAINS ARE DISCHARGE TO AN EXISTING NETWORK TO THE REST AND THE SITE WILL CONTINUE TO SHEET FLOW TO THE NORTH.	
A28 LOCATIONS OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS	
REFER TO SITE AND UTILITY PLAN (C400s)	
A29 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL	
Excess soil shall be immediately stockpiled, surrounded with silt fence and seeded and/or removed from the construction site in accordance with all applicable laws. If topsoil stockpiles are anticipated for this project, they are shown on the Erosion Control Plan.	
A30 CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT	
REFER TO EROSION CONTROL PLAN (C500s)	
A31 LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS AND PUMP AROUNDS	
N/A	
B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES	
The following potential pollutant sources may be associated with construction activities on site:	
1. Material storage areas (more specifically described below)	
2. Construction waste material	
3. Fuel storage areas and fueling stations	
4. Exposed soils	
5. Leaking vehicles and equipment	
6. Sanitary waste from temporary toilet facilities	
7. Litter	
8. Windblown dust	
9. Soil tracking off site from construction equipment	
The following construction materials may be staged or stored on site at various points during development of the site:	
1. Structural fill	
2. Pavement Base Stone	
3. HDPE, PVC, RCP or Ductile Iron pipe	
4. Precast concrete, HDPE or PVC drainage and sanitary structures	
5. Rock rip-rap	
B2 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS	
Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the Erosion Control Plan, refer to the Erosion Control Details for details (C550).	
B3 TEMPORARY AND PERMANENT SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON	
Surface stabilization is required on any bare or thinly vegetated area that is scheduled or likely to remain inactive for a period of 15 days or more.	
Refer to the Temporary Seeding Detail within Erosion Control Details for specifics on soil amendments, seed mixtures and mulching.	
A. Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 sq. ft. of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow placement of planting soil within a few days.	
B. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.	
C. Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent	
D. Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.	
E. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.	
F. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.	
G. Install erosion control blankets as indicated on the plan.	
H. Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas.	
I. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation.	
J. Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.	
B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS	
Proposed swales will be stabilized with erosion control blankets, and rock donuts will be installed to slow runoff to inlets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.	
B5 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS	
Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 6:1 (horizontal to vertical). Silt Fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.	
B6 RUNOFF CONTROL MEASURES	
N/A	
B7 STORMWATER OUTLET PROTECTION SPECIFICATIONS	
Stormwater outlets will be protected by riprap aprons to prevent scour erosion. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.	
B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS	
Rip rap aprons at outlets will be utilized to prevent grade destabilization. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.	
B9 DEWATERING APPLICATION AND MANAGEMENT METHODS	
N/A	
B9 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES	
N/A	
B11 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE	
Inspection Schedule/Reporting All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month.	
Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.	
Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify any incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local governing authority.	
Construction Entrance Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.	
Material Storage Inspections Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and the site inspection reports.	
Soil Stabilization Inspections Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.	
Erosion and Sediment Control Inspections All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls:	
1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored.	
2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.	

3. Diversion Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately.
4. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.
5. Sediment Trap: Accumulated silt shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to one-half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
6. Sediment Basin: Inspect frequently to check for damage and to ensure obstructions are not diminishing the effectiveness of the structures. Sediment shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
7. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence.
8. Stabilized Construction Entrance: Periodic re-grading and top dressing with additional stone.
9. Straw Bales: Replace straw bales that show signs of deterioration.
10. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
11. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.

In the event that sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to users of public streets. Modifications/Revisions to SWPPP.

Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven calendar days of the inspection.

It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more controls than were originally planned. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

Notice of Termination

Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.

All permittees must submit an NOI within thirty (30) days after one or more of the following conditions have been met:

1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

B12 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES

1. Schedule pre-construction meeting with local stormwater authority.
2. Install construction entrance.
3. Utilize the gravel construction entrance for installation of the permitter silt fence. Add stone if needed. Post the NOI at the entrance. Add protection measures to existing inlets.
4. Install staging area, fueling station, material storage area and concrete truck washout.
5. Strip the top soil and grade.
6. Complete the cut and fills on the site. Final grade and seed the pond slopes. Install check dams or stabilize the slopes with erosion control blankets.
7. Prior to building construction install stone surface for paved areas.
8. Building pads left dormant for more than 15 days, must be temporarily seeded.
9. Start building construction. Install staging area for building materials.
10. Install storm sewer and other utilities. Provide inlet protection immediately upon completion of the inlet and install riprap outlet protection prior to installing outlets. Final grade and stabilize slopes when inlets are functioning.
11. Seed the perimeter of the site.
12. Complete utility installation, curbs, paving and building construction.
13. Install landscaping plant material and stabilize all disturbed areas.

Remove all erosion and sediment control practices when areas have a uniform grass cover.

B13 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS

Since the entire site is under a single ownership, there are not any individual building lots.

B14/B15 MATERIAL HANDLING AND SPILL PREVENTION AND RESPONSE PLAN

Solid Waste Disposal

No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to the construction activity, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.

A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.

Hazardous Waste

Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.

Use containment berms in fueling and maintenance areas and where potential for spills is high.

A foreman or supervisor should be designated in writing to oversee, enforce and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility.

Dust Control/Off-Site Vehicle Tracking

During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust.

Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing streets. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts.

Sanitary/Septic

Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on-site location of said facilities.

Water Source

Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.

Equipment Fueling and Storage Areas

Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.

Equipment wash down (except for wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.

Hazardous Material Storage

Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not resealable, store the products in clearly labeled, waterproof containers). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations.

As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the storage areas.

Material Handling and Spill Prevention

Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1-800-424-8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spills) to the local governing authority. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications to minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements.

Concrete Washout

All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes.

Spill Response Plan

Minor - Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc., can be controlled by the first responder at the discovery of the spill.

- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.

Semi-Significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:

- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be disposed of

- as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if the spill could be a safety issue.
- Contact supervisors and designated site inspectors immediately.
- Contaminated solids are to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution.

- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.
- Immediately contact the local Fire Department at 911 to report any hazardous material spill.
- Contact supervisors and designated site inspectors immediately. Governing authorities responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
- As soon as possible but within 2 hours of discovery, contact the local agency responsible for spill management. The following information should be noted for future reports to the agency:

- Name, address and phone number of person making the spill report
- The location of the spill
- The time of the spill
- Identification of the spilled substance
- Approximate quantity of the substance that has been spilled or may be further spilled
- The duration and source of the spill
- Name and location of the damaged waters
- Name of spill response organization
- What measures were taken in the spill response
- Other information that may be significant

Additional regulations or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by the appropriate agency.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE

The proposed land use is a Park. The pollutants and sources of each pollutant normally expected from this type of land use are listed below:

Pollutant Source: Passenger vehicles, delivery vehicles.

Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, road de-icing materials.

Pollutant Source: Building

Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system.

Pollutant Source: Trash dumpster

Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), uneaten food products, bacteria.

Pollutant Source: Parking lot

Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing and patching), pavement de-icing materials, paint fragments from parking stall stripes, concrete fragments, wind-blown litter from off-site sources, elevated water temperatures from contact with impervious surfaces.

Pollutant Source: Lawn and landscape areas

Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)