

100% CONSTRUCTION DOCUMENTS

SOUTH PUTNAM HS TRACK AND FIELD RENOVATION

1780 EAST U.S. HIGHWAY 40
GREENCASTLE, IN 46135

222152.06

01/30/2024

OWNER

**SOUTH PUTNAM
COMMUNITY
SCHOOL
CORPORATION**



ARCHITECT

**FANNING HOWEY
ASSOCIATES INC.**
350 E. NEW YORK ST. SUITE 300
INDIANAPOLIS, IN 46204
317-848-0966



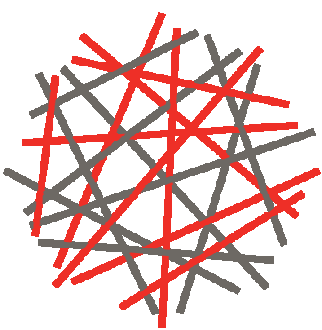
CONSTRUCTION MANAGER

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FORT WAYNE, IN 46203
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SITE / CIVIL ENGINEER

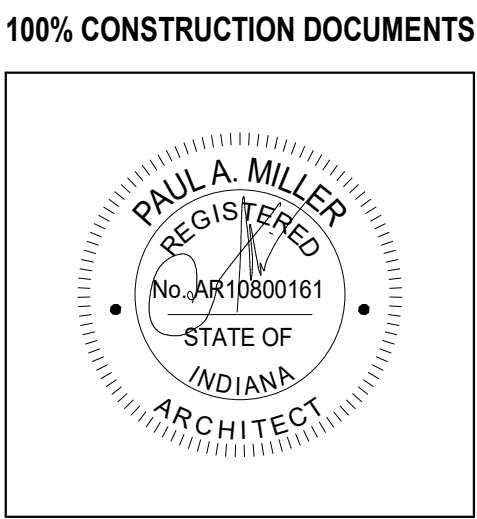
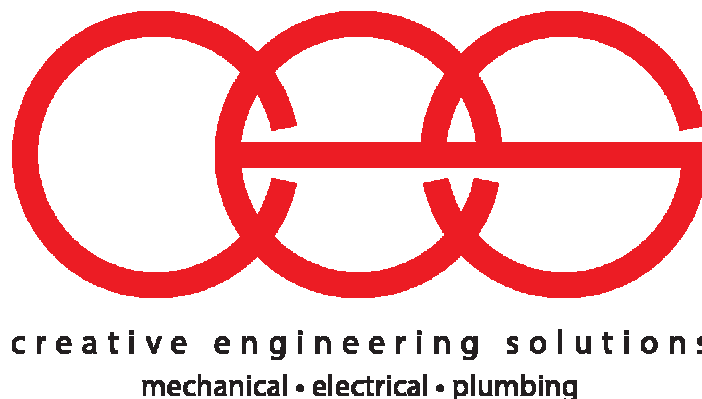
HWC ENGINEERING
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**HWC
ENGINEERING**

ELECTRICAL ENGINEER

CREATIVE ENGINEERING SOLUTIONS
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317-748-5252



PROJECT NUMBER: 222152.06
PROJECT ISSUE DATE: 01/30/2024

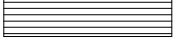


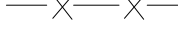
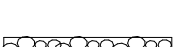

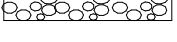

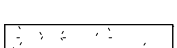

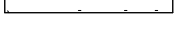




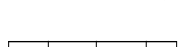

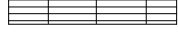

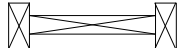
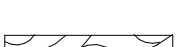


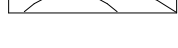
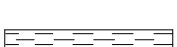
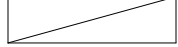
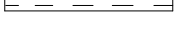



COVER SHEET

VOLUME A

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

AC	AT	M	METER
ACT	AIR CONDITIONING	MAS	MASONRY
ACG	ACROUSTICAL CEILING TILE	MAT	MATERIAL
AD	AREA DRAIN	MAX	MAXIMUM
ADJ	ADJUSTABLE	MB	MARKER BOARD
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFG	ACCORDION FOLDING PARTITION	MEZZ	MEZZANINE
AGG	AGGREGATE	MFR	MANUFACTURER
ALT	ALTERNATIVE	MH	MOP HOLDER
AL	ALUMINUM	MIN	MINIMUM
AMP	ACCESS PANEL	MISC	MISCELLANEOUS
APPROX	APPROXIMATE	MM	MILLIMETER
ARCH	ARCH RESISTANT	MO	MASONRY OPENING
ARCH	ARCHITECTURAL	MLT	METAL
ASPH	ASPHALT		
AV	AUDIO-VISUAL	N	NORTH
AWG	AMERICAN WIRE GAUGE	NC	NOT IN CONTRACT
AWT	ACOUSTICAL WALL TREATMENT	NUMBER	NUMBER
L	ANGLE	NOM	NOMINAL
&	AND	NTS	NOT TO SCALE
BIT	BITUMINOUS	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BLKG	BLOCKING	OPNG	OPENING
BM	BENCH MARK / BEAM	OPP	OPPOSITE
B.O.	BOTTOM OF	O.P.	OPPOSITE HAND
BOS	BOTTOM OF STEEL	OUT TO O	OUT TO O
BOT	BOTTOM	OW	OPERABLE WALL
BRG	BEARING	OZ	OUNCE
BRK	BRICK		
BUR	BUILT-UP ROOF	P	PAINT
CAB	CABINET	PA	PUBLIC ADDRESS
CAR	CARPET	PERF	PERFORATED
CAT	CATALOG	PL	PLASTIC
CB	CHORD / CATCH BASIN	PLAS	PLASTIC LAMINATE
CFM	CUBIC FEET PER MINUTE	PLUMBING	PLUMBING
CH	CHEAT HEATER	PLYWD	PLYWOOD
CI	CASING	PREFAB	PREFABRICATED
CJ	CONTROL JOINT	PROJ	PROJECTION SCREEN
CL	CENTERLINE	PSF	POUNDS PER SQUARE FOOT
CLER	CLERESTORY	PSI	POUNDS PER SQUARE INCH
CLG	CEILING	PENCL	PENCL SHARPENER SUSP
CMP	CORRUGATED METAL PIPE	PC	POLYCARBONATE
CMT	CERAMIC MASONRY TILE	PVT	PORT VINYL CHLORIDE
CMU	CONCRETE MASONRY UNIT	PVMT	PAVEMENT
CO	CLEANOUT	QT	QUARRY TILE
COL	COLUMN		
COMP	COMPACTED	R	RISER
CONC	CONCRETE	RA	RETURN AIR
CONSTR	CONSTRUCTION	RADII	RADIUS
CONT	CONTINUOUS/CONTINUE	RCB	RESILIENT BASE
CONTR	CONTRACTOR	RCF	REINFORCED CONCRETE PIPE
CONTR	CORRUGATED	RD	ROOF DRAIN
CT	CERAMIC TILE	REF	REFERENCE
C TO C	CENTER TO CENTER	REFR	REFRIGERATOR
CT	CENTRIC SINK	REINF	REINFORCING
CU FT/CF	CUBIC FEET	REQD	REQUIRED
CU IN/CI	CUBIC INCH	REV	REVISION(S)
CU YD/CY	CUBIC YARD	RM	ROOM
CUSP	CUSPIDOR	R.O.	ROUGH OPENING
CW	COLD WATER	ROW	RIGHT-OF-WAY
	CEMENT/TIMBER WOOD FIBER		
d	PENNY (NAILS, ETC.)	S	SOUTH
D	DEPTH/DEEP	SA	SUPPLY AIR
DC	DEGREE	SAN	SANITARY
DEPT	DEPLAGE CASE	SCHED	SCHEDULE
DET	DETAIL	SD	STORM DRAIN / SMOKE DETECTOR
DEF	DEFLECT	SECT	SECTION
DFT	DRAWING FOUNTAIN	SEW	SEWER
DN	DOWN	SGFT	STRUCTURAL GLAZED FACING TILE
DN Ø	DIMETER	SHT	SHEET
DN	DIMENSION	SH	SIMILAR
DIV	DIVISION	SP	SPACE
D	DRAWING	SPEC(S)	SPECIFICATION(S)
DWG	DRAWING	SPKR	SPEAKER
DS	DOWNSPOUT	SQ	SQUARE
DWC	DRAINING WATER COOLER	SQ FT/SF	SQUARE FEET
	EAST	SQ IN/IN	SQUARE INCHES
E	EAST	SQ YD/SY	SQUARE YARDS
EJ	EACH FACE	SS	STAINLESS STEEL
EJ	EXPANSION JOINT	ST	STORM/STREET
EL	ELEVATION	STL	STEEL
ELEC	ELECTRICAL	STRT	STRUCTURAL
ELEV	ELEVATOR	SUSP	SUSPENDED
ENGR	ENGINEER	SW	SHORT WALL SIDEWALK
EP	ELECTRICAL PANELBOARD	SYMM	SYMMETRICALLY
EQ	EQUAL	SYNTH	SYNTHETIC
EQU	EQUIPMENT		
EW	EACH WAY	T	TREAD
EPS (in DEFS)	EXTRUSION APPLIED EXTERIOR FINISH SYSTEM	T&B	TOP AND BOTTOM
EFS	EXTRUSION INSULATION FINISH SYSTEM	T&G	TONGUE AND GROOVE
EXH	EXHAUST	TA	TOILET ACCESSORY(IES)
EXIST	EXISTING	TACKBOARD	TACKBOARD
EXP	EXPANSION	TO	TOP OF CURB
EXT	EXTERIOR	TEL	TELEPHONE
EXTN	EXTENSION	TERR	TERRAZZO
		T.O.	TOP OF
FD	FLOOR DRAIN	TOT	TOP OF CONCRETE
FHC	FIRE HOSE CABINET	TOP OF FOOTING	TOP OF FOOTING
FIN	FINISH	TOC	TOP OF MASONRY
FIN FL	FINISH FLOOR	TOP OF STEEL	TOP OF STEEL
FLR	FLOOR	TV	TELEVISION
FDN	FOUNDATION	TYP	TYPICAL
FSR	FLEXIBLE SHEET ROOFING	TWS	TACKABLE WALL SURFACE
FSK	FLOOR SERVICE SINK		
FT	FEET	UNO	UNLESS NOTED OTHERWISE
FTG	FOOTING	UV	UNIT VENTILATOR
FE	FIRE EXTINGUISHER	URNAL	URNAL
FEC	FIRE EXTINGUISHER CABINET		
GA	GAUGE	VCT	VINYL COMPOSITE TILE
GALV	GALVANIZED(D)	VCOVB	VINYL COVERED CYPRESS WALLBOARD
GB	GRAB BAR	VERT	VERTICAL
GCMU	GRAND FACED CONCRETE MASONRY UNIT	VFWC	VINYL FABRIC WALLCOVERING
GRGU	GLASS FIBER REINFORCED CYPRESS UNIT	VFLD	VINYL FIBER LAMINATE
GL	GLASS	VIT	VITREOUS
GWB	GYPSUM WALLBOARD	VR	VAPOR RETARDER
		VRL	VOLUME RESILIENT BASE
H	HEIGHT/HIGH	VS	VENT STACK
HB	HOSE BIB	VT	VINYL STACK
HOWE	HARDWARE		
HMT	HOLLOW METAL	W	WEST / WIDE / WIDTH
HORZ	HORIZONTAL	WI	WITH
HPT	HIGH POINT	WO	WITHOUT
HTG	HIGH TENSILE	WOA	WOOD ABOVE
HVAC	HEATING/VENTILATING/AIR CONDITIONING	WC	WATER CLOSET / WINDY
HW	HOT WATER	WD	WOOD
HWY	HIGHWAY	WH	WATER HEATING
		WP	WORKING POINT
ID	INSIDE DIAMETER	WSSK	WALL SERVICE SINK
IN	INCH	WN	WELDED WIRE FABRIC
INCL	INCLUDE(D), (ING)		
INFO	INFORMATION	YD	YARD / YARD DRAIN
INSUL	INSULATION		
INTR	INTERIOR		
INV	INVERT		
JS	JOIST SUBSTITUTE		
JST	JOIST		
JT	JOINT		
KIT	KITCHEN		
L	LENGTH		
LAM	LAMINATE(D)		
LAV	LAVATORY		
LB#W	POUND		
LKR	LOOKER		
LL	LEVEL LOAD		
LLH	LONG LEG HORIZONTAL		
LVL	LONG LEG VERTICAL		
LVR	LOUVER		
LW	LONG WAY		

MATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

	ASPHALT		WIRE FENCE OR PARTITION
	EARTH		METAL ROOF DECK
	GRAVEL, STONE, OR DRAINAGE FILL		LAMINATED WOOD BEAM (SMALL SCALE SECTION)
	SAND, GROUT, PLASTER, GWB, OR PLAN VIEW OF SIDEWALK		BATT INSULATION
	CONCRETE		RIGID INSULATION
	TERRAZZO		ROUGH WOOD
	CUT STONE		FINISH WOOD
	MARBLE		WOOD OTHER THAN NOMINAL
	SLATE		PLYWOOD
	FACE BRICK (PLAN)		GYPSUM WALLBOARD (LARGE SCALE)
	GLAZED BRICK		STUD WALL (PLAN) - DIMENSIONS TAKEN TO FINISH FACE OF WALL - SEE WALL TYPES
	CONCRETE MASONRY UNIT (PLAN)		SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
	CONCRETE MASONRY UNIT (SECTION)		FABRIC ACCORDION FOLDING PARTITION
	CONCRETE MASONRY UNIT (SOLID, IN SECTION)		ACOUSTICAL TILE CEILING
	SPRAY-ON INSULATION OR FIRE PROTECTION		EXTERIOR INSULATION FINISH SYSTEM

DRAWING SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW.

SYMBOLS		SYMBOLS		SYMBOLS	
	CALLOUT		REVISION TAG		EXISTING CONTOUR
	EQUIPMENT TAG		ROOF TYPE TAG		NEW CONTOUR
	CEILING TAG		BUILDING WALL SECTION		TEST BORING & NO.
	KEY NOTE TAG		DETAIL SECTION		EXISTING POINT ELEVATION
	DOOR TAG		ROOF SLOPE TAG		NEW POINT ELEVATION
	EXTERIOR ELEVATION		MATCHLINE VIEW REFERENCE		STORM SEWER INLETS
	INTERIOR ELEVATION		WALL TAG		
	GRID HEAD		STOREFRONT TAG		
	LEVEL LINE		WINDOW TAG		
			ROOM TAG		

VOLUME A

C0.1	DEMOLITION PLAN
C0.2	GENERAL NOTES & STORMWATER POLLUTION PREVENTION DETAILS
C0.3	STORMWATER POLLUTION PREVENTION NOTES
C1.0	PRE-STORMWATER POLLUTION PREVENTION PLAN
C1.1	POST-STORMWATER POLLUTION PREVENTION PLAN
C1.2	GRADING PLAN
C1.3	UTILITY PLAN
02 SITE	
G0.00	SITE BORING PLAN
G1.00	SITE LAYOUT AND GRAPHIC PLAN
G1.01	SITE DIMENSIONING PLAN
G2.00	SITE GRADING AND DRAINAGE PLAN
G4.00	SITE DETAILS
03 ELECTRICAL	
E001	ELECTRICAL SYMBOLS AND ABBREVIATIONS
ES101	ELECTRICAL SITE PLAN

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1780 EAST U.S. HIGHWAY 40
GREENCASTLE, IN 46135

**SOUTH PUTNAM
COMMUNITY SCHOOL
CORPORATION**

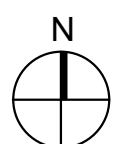


ARCHITECT

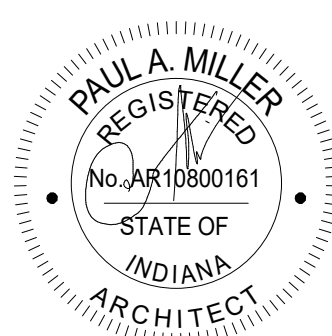


**FANNING
HOWEY**

317-848-0966 WWW.FHAI.COM
350 E. NEW YORK ST. SUITE 300 INDIANAPOLIS, IN 46204



100% CONSTRUCTION DOCUMENTS

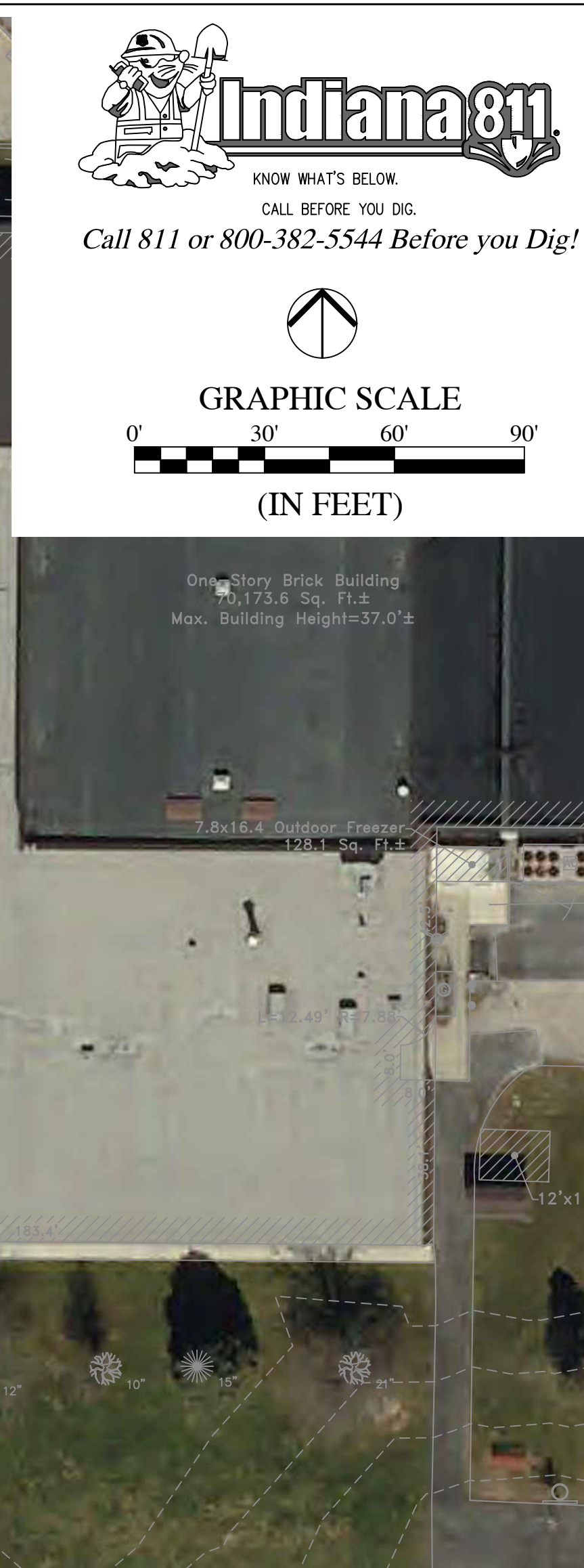


PROJECT NUMBER: 222152.06
PROJECT ISSUE DATE: 01/30/2022

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ABBREVIATIONS & INDEX

INDEX A



● MONUMENT – BENCHMARK	■ CABLE PEDESTAL
● MONUMENT – CAPPED REBAR	■ CABLE MARKER POST
● MONUMENT – CENTERLINE MON.	(□) ELECTRIC ACCESS COVER
● MONUMENT – CONCRETE MON./POST	① ELECTRIC MANHOLE
● MONUMENT – CUT X	② ELECTRIC MARKER POST
● MONUMENT – MAG NAIL/PK NAIL	③ ELECTRIC METER
● MONUMENT – REBAR/PIN/PIPE (NO CAP)	■ ELECTRIC PANEL/PEDESTAL
△ MONUMENT – SECTION CORNER	■ ELECTRIC TRANSFORMER
④ SITE – A/C UNIT	④ FIBER OPTIC ACCESS/MANHOLE
⑤ SITE – ASH TRAY	④ FIBER OPTIC MARKER POST
⑥ SITE – BOLLARD	④ GAS ACCESS/MANHOLE
⑥ SITE – POST, FENCE POST	④ GAS MARKER POST
⑦ SITE – FLAG POLE	④ GAS METER
⑧ SITE – MAILBOX	④ GAS VALVE
⑨ SITE – MISC. OBJECT (SEE LABEL)	④ LIGHT POLE/AREA LIGHT
⑩ SITE – PARKING METER	④ SANITARY MANHOLE
⑪ SITE – PARKING SIGNAL/GATE	④ SEWER CLEANOUT
⑫ SITE – SLOTTED DISH	④ STORM INLET – BEHIND/ROUND
⑬ SITE – SLOTTED	④ STORM INLET – CURB/SQUARE
⑭ SITE – SOIL BORER	④ STORM MANHOLE
⑮ SITE – SOIL BORING	④ STORM PIPE END SECTION
● TREE – CONIFEROUS	④ TELEPHONE MANHOLE
● TREE – DECIDUOUS	④ TELEPHONE MARKER POST
● TREE – MULTI-TRUNK	④ TELEPHONE PANEL/PEDESTAL
● SHRUB	④ TRAFFIC CONTROL BOX
● GUARDRAIL	④ TRAFFIC MANHOLE
① ELECTRIC (UNDERGROUND)	④ TRAFFIC SIGNAL POLE
② TELEPHONE (UNDERGROUND)	④ UTILITY POLE
③ WATERLINE (UNDERGROUND)	④ UTILITY POLE GUY ANCHOR
④ FIBER OPTIC (UNDERGROUND)	④ RISER POLE
⑤ GAS (UNDERGROUND)	④ WATER HYDRANT
⑥ STORM SEWER	④ WATER IRRIGATION VALVE
⑦ SANITARY SEWER	④ WATER MANHOLE/JAULT
⑧ OVERHEAD UTILITY (ELECTRIC/FIBER)	④ WATER METER
⑨ FLOWLINE	④ WATER POST INDICATOR VALVE
	④ WATER VALVE
	④ WATER WELL/MONITORING WELL

1. EXISTING TRANSFORMER/PAD TO BE PROTECTED DURING CONSTRUCTION.
2. EXISTING ELECTRIC LINE TO BE PROTECTED DURING CONSTRUCTION.
3. EXISTING STORM DRAIN INLET STRUCTURE. EXISTING STORM DRAIN SYSTEM THROUGHOUT FOOTBALL FIELD AND ALL UNKNOWNS REQUIRES STRUCTURE AND LINE SHOWN. CONTRACTOR TO IDENTIFY ALL EXISTING SYSTEM ELEMENTS OF EXISTING SYSTEM AND PROCEED PER ARCHITECTURAL DRAWING INSTRUCTIONS.
4. EXISTING STORM DRAIN LINE (4" CMP). EXISTING STORM DRAIN SYSTEM THROUGHOUT FOOTBALL FIELD AND INLET IS UNKNOWN REQUIRES STRUCTURE AND LINE SHOWN. CONTRACTOR TO IDENTIFY ALL EXISTING SYSTEM ELEMENTS OF EXISTING SYSTEM AND PROCEED PER ARCHITECTURAL DRAWING INSTRUCTIONS.
5. DISCONNECT, REMOVE AND PROTECT THE GROUND DURING DEMOLITION. CONTRACTOR TO PROVIDE STORAGE AND AIR-INSTALLATION AT SAME LOCATION.
6. REMOVE AND PROTECT GOAL POST DURING DEMOLITION. CONTRACTOR TO PROVIDE TO OWNER FOR STORAGE. NEW GOAL POSTS TO BE INSTALLED AT SAME LOCATION.
7. EXISTING TRACK D-ZONE AREA. CONTRACTOR IS TO SAWCUT AND REMOVE NORTH D-ZONE ON THE INSIDE LINE OF LINE ONE AND DISPOSE OF ALL WASTE MATERIALS LEGALLY OFF SITE. PROVIDE NEW CONDITIONS MATCHING NEW 6.100 SITE LAYOUT PLAN.
8. EXISTING CONCRETE HIGH AMP PAD TO BE DEMOLISHED ENTIRELY AND WASTE MATERIALS ARE TO BE DISPOSED OF LEGALLY OFF SITE BY THE CONTRACTOR.
9. POLE VULCANIZATION AND SAND PIT TO BE REMOVED AND REPLACED WITH SUITABLE FILL FOR NEW ARTIFICIAL SURFACE.
10. LONG JUMP RUNWAY AND SAND PIT TO BE REMOVED AND REPLACED WITH SUITABLE FILL FOR NEW ARTIFICIAL SURFACE.
11. EXISTING TRACK TO BE PROTECTED DURING DEMOLITION. TRACK TO BE RESURFACED AS A PART OF THIS PROJECT.
12. EXISTING SPORT AND LID TO BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO VERIFY LOCATION IN FIELD IS SUITABLE IN CONJUNCTION WITH OTHER UTILITIES AND DRAINAGE STRUCTURES/PIPE.
13. EXISTING FENCE (48" CHAIN LINK) TO BE PROTECTED DURING CONSTRUCTION. IF REQUIRED TO BE REMOVED DUE TO TRACK RESURFACING, CONTRACTOR SHALL REPAIR AND REPLACE AT AN ADDITIONAL COST TO THE OWNER.
14. EXISTING SCOREBOARD TO BE PROTECTED DURING CONSTRUCTION.
15. EXISTING PLAYING SURFACE (NATURAL GRASS) TO BE REMOVED, GRADED AND RE-COMPACTED FOR NEW ARTIFICIAL PLAYING SURFACE. ANY AND ALL OBJECTS INSIDE THE TRACK NOT CALLED OUT ON THIS PROJECT PLAN SHALL BE IDENTIFIED AND THE OWNER SHALL BE NOTIFIED FOR DETERMINATION OF REMOVAL.
16. AREA SHALL BE GRADED AND PREPARED FOR PROPOSED LOCATION OF POLE VULCANIZATION AND CONCRETE PAD AND LONG JUMP RUNWAY AND SAND PIT.
17. EXISTING WASTE ACCESS LINE POINT. PROTECT DURING CONSTRUCTION.

C0.1

C0.1

1. SURVEY PREPARED BY:
CENTRAL STATES CONSULTING, LLC
P.O. BOX 4
13 WEST PEARL STREET
NORTH SALEM, INDIANA 46165
317-858-8662
2. CONTRACTOR SHALL PERFORM ALL MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH STATE AND LOCAL STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE CONTRACTOR WILL BE RESPONSIBLE TO CONDUCT AND NOT TO BE LIMITED TO NATIONAL CONSENSUSDOCS. CONTRACTOR SHALL, AT A MINIMUM, PROVIDE TRAFFIC CONTROL AS REQUIRED TO SAFELY PROTECT THE GENERAL PUBLIC, THE CONTRACTOR'S WORK FORCES AND THE WORK.
3. CONTRACTOR SHALL COMPLY WITH ANY AND ALL SAFETY REGULATIONS AND REQUIREMENTS RELATED TO THE LISTED WORKS. ANY PROVISIONS FOR THE WORK SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ANY OTHER LOCAL, STATE OR FEDERAL AGENCY HAVING JURISDICTION. IN ACCORDANCE WITH THESE ACCEPTED SAFETY PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, FENCES, WARNING SIGNS, FLASHING LIGHTS, TEMPORARY WALKWAYS AND OTHER SAFETY MEASURES DURING CONSTRUCTION.
5. ALL WORK SHALL CONFORM TO FEDERAL, STATE AND LOCAL REGULATIONS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND PERMITS REQUIRED FOR WORK.
7. PLANS AND SPECIFICATIONS REQUIRE ARCHITECT, ENGINEER AND LANDSCAPE ARCHITECT INTERCHANGEABLY THROUGHOUT.

1. NOT ALL UTILITY LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. ANY UNDERGROUND INFORMATION SHOWN ON THE DRAWINGS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS NOT GUARANTEED. THE CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF EXISTING UNDERGROUND UTILITIES BEFORE EXCAVATION BEGINS.
2. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR PROTECTING ALL UTILITIES IN THE WORK AREA, WHETHER SHOWN OR NOT, AND SHALL REALIZE THAT THE ACTUAL LOCATION OF THE UTILITIES MAY BE DIFFERENT FROM THE LOCATION SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROTECT THE PUBLIC RIGHTS OF WAY OR ON PRIVATE PROPERTY, SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN IN SERVICE.
3. ANY UTILITIES WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION TO SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE UTILITY.
4. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY TYPE OF WORK WHICH COULD DISRUPT THE RESPECTIVE UTILITY SERVICE. CONTRACTOR SHALL COORDINATE ANY DISRUPTION OF AN ACTIVE UTILITY SERVICE WITH ENGINEER, OWNER, AND UTILITY COMPANY.
5. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY FOR DIRECTION SHOULD UNCHARTED, INCORRECTLY CHARTED OR OTHER TYPE OF INFORMATION DURING CONSTRUCTION, ANY DEVIATIONS FROM THE UTILITY LOCATIONS OR ELEVATIONS FROM THOSE SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER BEFORE CONSTRUCTION PROCEEDS AT THAT LOCATION.
6. CONTRACTOR SHALL UNCOVER ALL TIE-IN AND CROSSING LOCATIONS PRIOR TO ANY UNDERGROUND PIPE INSTALLATION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH THE IMPROVEMENTS SHOWN ON THE SITE PLANS. IF MINOR UTILITY CONFLICTS ARISE, CONTRACTOR MAY SHIFT THE LOCATION OF THE PROPOSED IMPROVEMENTS AFTER NOTIFYING ENGINEER.
8. REFER TO BUILDING PLANS FOR ALL INFORMATION REGARDING UTILITY LAYOUT AND DETAILS WITHIN THE BUILDING AND EXTENDING OUT 5- FEET FROM EXTERIOR FACE OF BUILDING. ALL MECHANICAL, ELECTRICAL, AND PLUMBING DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. ALL UTILITY MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS FOR EACH UTILITY AGENCY HAVING JURISDICTION.
10. ALL EXCAVATED TRENCHES UNDER PROPOSED PAVED AREAS, INCLUDING SIDEWALKS, SHALL BE BACKFILLED WITH GRANULAR MATERIAL AND COMPACTED IN LIFTS ACCORDING TO CONSTRUCTION DETAILS. GRANULAR MATERIAL SHALL EXIST 6 INCHES TO 5 FEET BEYOND THE LIMITS OF THE PAVEMENT AT THE SURFACE WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.
11. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES AND CONDUITS TO AVOID CONFLICTS AND PROVIDE REQUIRED MINIMUM DEPTHS OF COVER. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL BENDS, FITTINGS OR STRUCTURES REQUIRED TO ASSURE PROPER INSTALLATION.
12. ALL COORDINATES AND DIMENSIONS ARE TO THE CENTERLINE OF THE UTILITIES AND STRUCTURES.
13. WHERE NECESSARY, UTILITY SERVICE CONDUITS SHALL BE INSTALLED UNDER PAVED AREAS AND BACKFILLED WITH GRANULAR MATERIAL ABOVE. BEFORE PAYMENT IS CONTRACTED, COORDINATE CONDUIT REQUIREMENTS WITH UTILITY COMPANIES AND MECHANICAL CONTRACTOR.

1. PRIOR TO THE START OF DEMOLITION WORK, CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES HAVING JURISDICTION.
2. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL DEMOLISH AND DISPOSE OF OFF-SITE ALL MATERIALS, STRUCTURES, FENCE, CONCRETE, PAVEMENTS, CURBS AND OTHER MISCELLANEOUS APPURTENANCES WITHIN DISTRICT LIMITS, EXCEPTED DEMOLITION AREAS AND FACILITIES ARE INDICATED WITH BOLD LINES AND/OR SHADED AREAS. DISPOSAL OF SITE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FEATURES TO REMAIN OR WHICH BELONG TO THE ADJACENT PROPERTY. THE SITE FEATURES INCLUDE, BUT ARE NOT LIMITED TO, BUILDINGS, PAVEMENTS, FENCES, VEGETATION, UTILITIES, PROPERTY MARKERS, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS DURING OR AS A RESULT OF CONSTRUCTION ACTIVITY. REPLACEMENT OF DAMAGED PROPERTY SHALL BE EQUAL TO EXISTING CONDITIONS.
4. CLEAR AND GRUB ALL TREES, BRUSH, STUMPS AND OTHER VEGETATION NECESSARY FOR CONSTRUCTION. ALL CLEARING AND GRUBBING DEBRIS SCHEDULED FOR REMOVAL SHALL BE DISPOSED OF OFF-SITE.
5. TREES AND OTHER PLANT MATERIALS TO REMAIN SHALL BE PROTECTED BY TREE FENCE INSTALLED OUTSIDE THE DRIP LINE. NO CONSTRUCTION EQUIPMENT, MATERIALS OR DEBRIS SHALL BE LOCATED WITHIN TREE PROTECTION BOUNDARIES.
6. DEMOLISH FOUNDATIONS AND OTHER BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS, TO A DEPTH OF NOT LESS THAN 48-INCHES BELOW THE LOWEST GRADE/SUBGRADE LEVEL.
7. COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS.
8. PROVIDE NEAT, STRAIGHT, VERTICAL SAWCUT AT ALL LOCATIONS WHERE PROPOSED PAVEMENTS, CURBS, ETC. ABUT EXISTING PAVEMENTS, CURBS, ETC. TO REMAIN.
9. UNLESS NOTED OTHERWISE, ALL UNDERGROUND UTILITIES SCHEDULED FOR DEMOLITION SHALL BE COMPLETELY EXCAVATED AND DISPOSED OF OFF-SITE, AND THE TRENCH BACKFILLED IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS.
10. UNLESS NOTED OTHERWISE, ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT.
11. DEMOLITION ITEMS INCLUDE, BUT ARE NOT LIMITED TO, REMOVAL ITEMS INDICATED ON THE DEMOLITION PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATED ITEMS WHICH INTERFERE WITH PROPOSED CONSTRUCTION.
12. CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS, AND OTHER ADJACENT OCCUPIED FACILITIES.
13. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
14. ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION AND CONSTRUCTION; CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT STRUCTURES AND OTHER FACILITIES AND INJURY TO PERSONS.
15. PROMPTLY REPAIR DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS.
16. NO ON-SITE BURNING IS PERMITTED.
17. THE USE OF ANY TYPE OF EXPLOSIVES SHALL NOT BE PERMITTED.

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS THROUGHOUT CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED CONSTRUCTION LINE AND GRADE TO ENSURE ACCURATE LAYOUT OF SITE IMPROVEMENTS.
3. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE REFERENCED TO THE EDGE OF PAVEMENT, EDGE OF SIDEWALK, FACE OF CURB, OR OUTSIDE SURFACE OF FOUNDATION WALL.
4. REFER TO BUILDING PLANS FOR ALL BUILDING DIMENSIONS AND LAYOUT DETAILS.
5. FOLLOWING THE COMPLETION OF ALL UNDERGROUND WORK IN PAVED AREAS, AGGREGATE BASE SHALL BE PLACED AND COMPACTED TO THE THICKNESS INDICATED ON THE APPROPRIATE PAVEMENT DESIGN DETAIL. WHEREVER THE THICKNESS OF THE BASE EXCEEDS 6 INCHES, PLACE MATERIALS IN EQUAL LAYERS, WITH NO LAYER MORE THAN 6 INCHES OR LESS THAN 3 INCHES THICK WHEN COMPACTED.
6. WHEREVER THE MINIMUM THICKNESS OF THE BASE IS 6 INCHES, PLACE MATERIALS ALONG CURBS, WALLS AND ALL LOCATIONS NOT ACCESSIBLE TO THE ROLLER, COMPACT AGGREGATE BASE WITH HAND OPERATED TAMPERS.
7. ASPHALT PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION AND MATERIAL GUIDELINES OF THE INDOT STANDARD SPECIFICATIONS, LATEST EDITION. SEE CONSTRUCTION DETAILS FOR PAVING DESIGN AND MATERIALS.
8. THE CONNECTION OF NEW PAVEMENT TO EXISTING PAVEMENT IN THE PARKING LOTS AND DRIVEWAYS SHALL MATCH EXISTING GRADES AND PROFILES. A LAP JOINT IS REQUIRED FOR CONNECTIONS BETWEEN EXISTING AND PROPOSED ASPHALT PAVEMENTS. SEE CONSTRUCTION DETAILS. THE EDGE OF THE EXISTING ASPHALT PAVEMENT SHALL BE SEAMED TO THE NEW PAVEMENT MATERIAL IN ALL LOCATIONS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
9. UNLESS NOTED OTHERWISE, ALL PAVEMENT STRIPING WITHIN THE PROJECT SITE SHALL BE 4-INCHES WIDE, PAINTED WITH WHITE LATEX, WATERBORNE EMULSION, LEAD AND CHROMATE FREE, READY MIXED. STRIPING SHALL BE PAINTED WITH 15 MILS DRY FILM THICKNESS OF PAVEMENT MARKING STENCILS TO PRODUCE CLEAN, STRAIGHT AND UNIFORM EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES TO PRODUCE A MINIMUM 12 TO 15 MILS DRY THICKNESS.
10. PORTLAND CEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-150, ONLY ONE BRAND AND MANUFACTURER OF APPROVED CEMENT SHALL BE USED FOR ANY ONE STRUCTURE. REGULAR FINE AND COARSE SANDS, SILTS AND SLTES SHALL BE USED. ALL AGGREGATES SHALL BE WASHED, CLEAN, FREE OF OILS, ACIDS, ALKALIS, ORGANIC MATERIAL OR OTHER SUBSTANCES THAT MAY BE DEleterious TO CONCRETE OR STEEL.
11. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, GRADE 60, WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-185. REINFORCEMENT SHALL BE CUT AND BENT IN ACCORDANCE WITH ACI 315. COMPLY WITH ACS RECOMMENDED PRACTICE "PLACING REINFORCING BARS" FOR PLACING AND STRUCTURAL REINFORCEMENT.
12. ALL CONCRETE USED SHALL BE CLASS A SUPPORTING CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI, 6-1/2" BAGS, 2 TO 4 INCH SLUMP RANGE, 10% OR 8% AIR CONTENT. CLASS A CONCRETE SHALL BE PROPORTIONED IN ACCORDANCE WITH ACI 311.1. ALL READY MIXED CONCRETE MAY BE MIXED, DELIVERED, AND PLACED IN ACCORDANCE WITH ASTM C-94.
13. FORMS SHALL BE CONSTRUCTED OF WOOD, PLYWOOD, STEEL, OR OTHER APPROVED MATERIALS AND SHALL BE MORTAR TIGHT, THE FORMS AND ASSOCIATED FALSE WORK SHALL BE SUBSTANTIAL AND UNYIELDING. THE CONCRETE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FORMS, BRACING, TIES, JOINTS, AND CONTOURS SHOWN ON THE DRAWINGS. FORM SURFACES SHALL BE SMOOTH AND FREE FROM HOLES, DENTS, OR OTHER DEFECTS. FORMS SHALL BE COATED WITH A NON-STAINING OIL BEFORE CONCRETE IS POURED, REMOVE FORMS A MINIMUM OF 24 HOURS AFTER PLACING CONCRETE.
14. ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304. FORMED CONCRETE SHALL BE UNIFORMLY CONSOLIDATED USING A MECHANICAL VIBRATOR. COMPLY WITH THE RECOMMENDATIONS OF ACI 308 FOR COLD WEATHER PLACEMENT AND ACI 308R FOR HOT WEATHER PLACEMENT. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND TO ENSURE PROPER MOISTURE CURE DURING CURING.
15. CONCRETE SAW CUTTING SHALL BE DONE AS SOON AS CURED CONCRETE HAS CURED AND CAN SUPPORT WEIGHT. PROVIDE A NEAT, STRAIGHT CUT WHICH IS TRUE IN ALIGNMENT. ALL JOINTS ARE TO CONTINUE THROUGH THE ENTIRE DEPTH OF THE CONCRETE. PROTECT JOINTS FROM DAMAGE.
16. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH THE APPROPRIATE SEALANT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
17. ALL SIDEWALKS SHALL COMPLY WITH AMERICAN WITH DISABILITIES ACT (ADA) STANDARDS. MAXIMUM CROSS SLOPE SHALL BE 1:50 AND MAXIMUM LONGITUDINAL SLOPE SHALL BE 1:20.

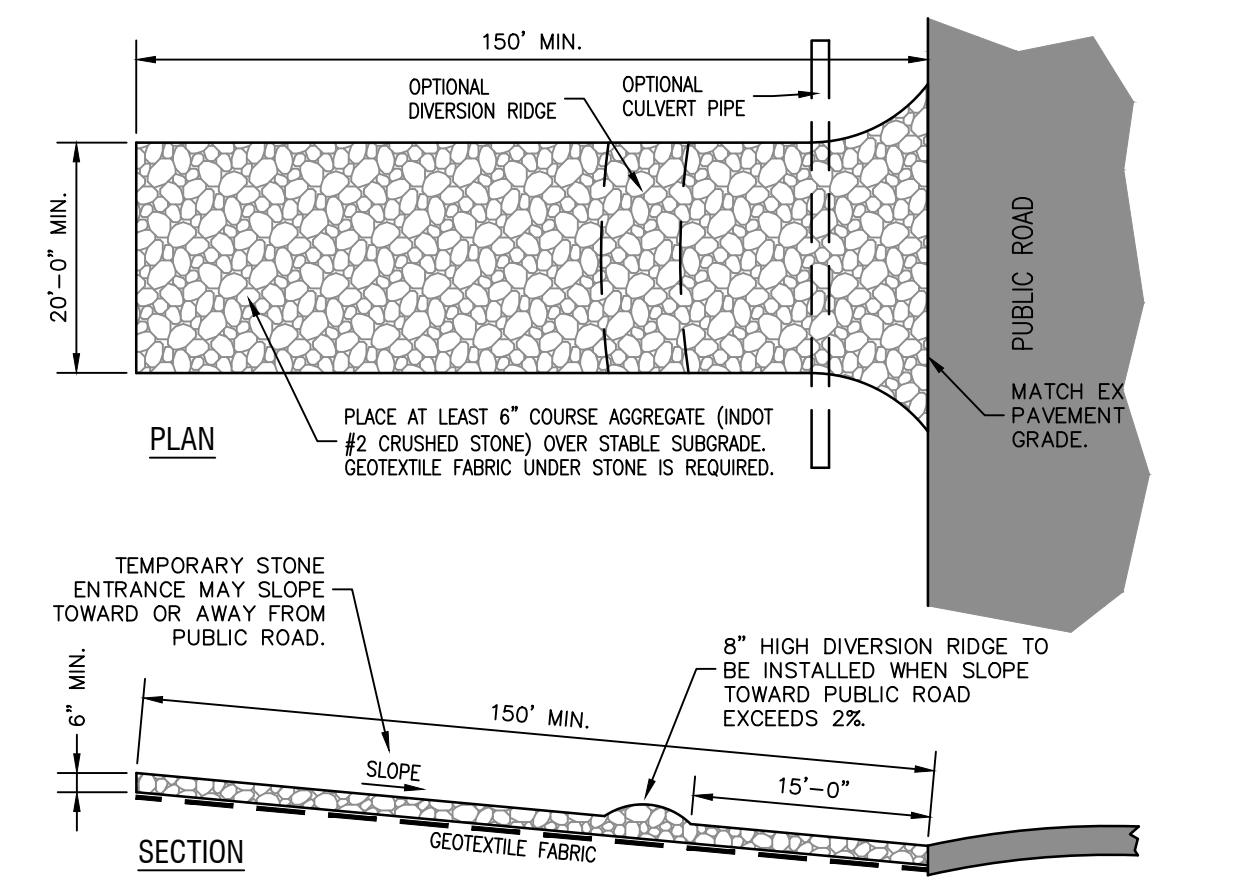
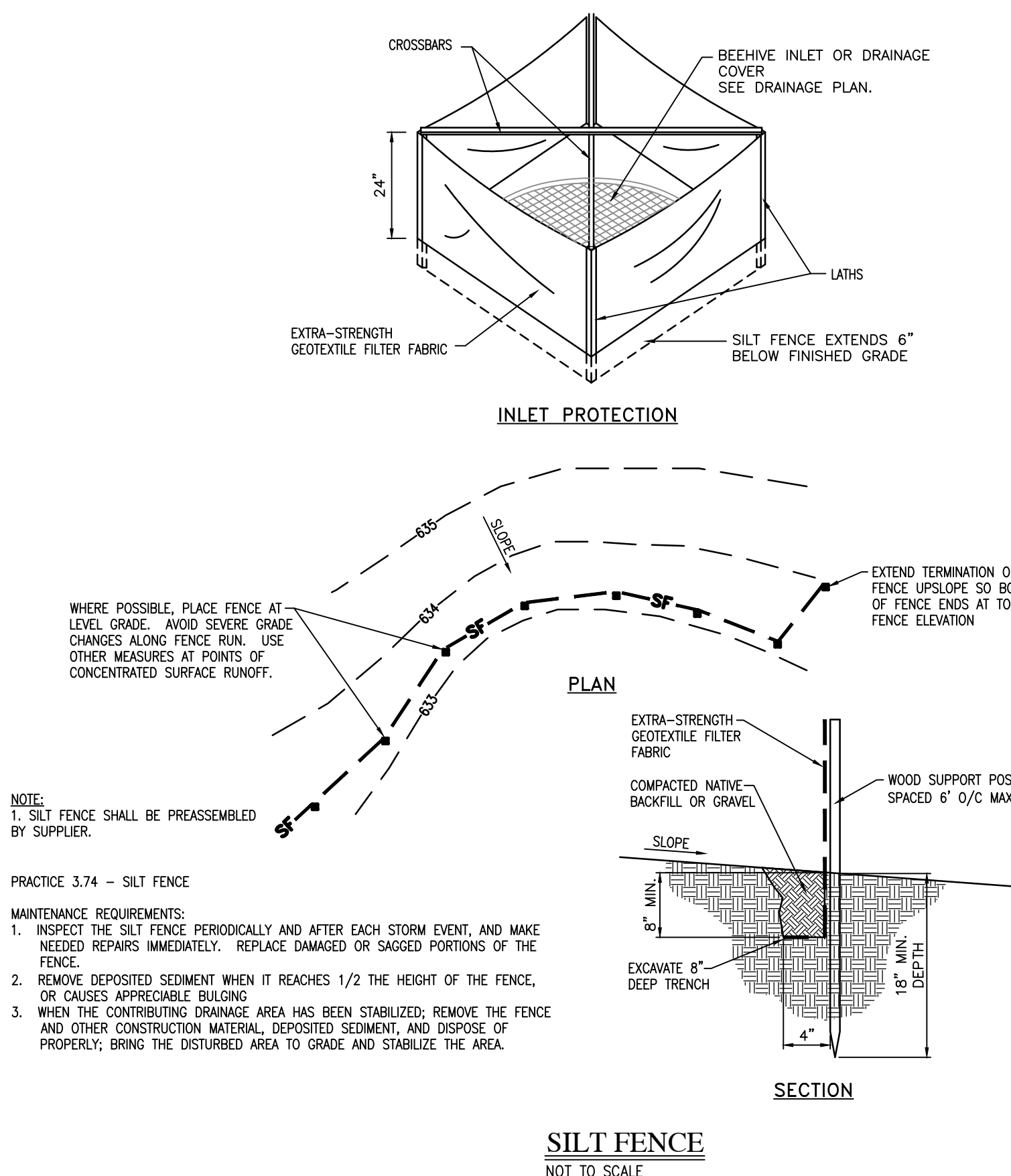
1. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING INVESTIGATION REPORT FOR INFORMATION ABOUT THE SOIL CONDITIONS. GEOTECHNICAL REPORT WILL BE PROVIDED BY ENGINEER AT REQUEST BY CONTRACTOR.
2. EARTHWORK SHALL BE COMPLETED IN ACCORDANCE WITH PUTNAM COUNTY AND INDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY ENGINEER AND THE OWNER AT LEAST 48 HOURS BEFORE STARTING EARTHWORK OPERATIONS.
3. THE CONTRACTOR SHALL EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER FOR THIS PROJECT. THE ENGINEER, GEOTECHNICAL ENGINEER SHALL DIRECT SOIL CONDITION, ROLLING, AND FILLING OF ALL COMPACTED FILLS. ALL SUBGRADES AND FILLS SHALL MEET OR EXCEED THE COMPACTION REQUIREMENTS SPECIFIED BELOW. BASED UPON REPORTS FROM THE GEOTECHNICAL ENGINEER, SUBGRADES OR FILLS WHICH DO NOT MEET SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REWORKED AT CONTRACTOR'S EXPENSE TO THE OWNER.
4. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE DURING FINISH GRADING AND LANDSCAPE WORK. TOPSOIL SHALL BE STRIPPED TO A MINIMUM OF 4 INCHES. TOPSOIL SHALL BE STORED IN A MANNER SUCH THAT IT IS NOT EXPOSED TO WEATHER. TOPSOIL IS DEFINED AS FERTILE, FRIABLE NATURAL LOAM SURFACE SOILS, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, AND OTHER LITTER OR STONES LARGER THAN 1/2 INCH. LOOSE DEBRIS, TOPSOILS FROM UNDER SURFACES SHALL BE STRIPPED FROM AREAS OF THE SITE THAT ARE TO BE DEVELOPED. THE DEPTH OF STRIPPING OF SURFACE SOILS MAY VARY BY LOCATION WITHIN THE SITE. THE ENGINEER WILL DETERMINE THE DEPTH OF TOPSOIL TO BE STRIPPED TO STOP EXPOSURE OF SUBSOIL. TOPSOIL SHALL REMOVE TOPSOILS AND UNSUITABLE SUBSOILS FROM ALL AREAS TO BE OCCUPIED BY BUILDINGS AND PAVEMENTS. IN ADDITION, ANY AREAS TO BE UTILIZED AS BORROW AREAS FOR FILL MATERIAL MUST ALSO BE STRIPPED TO A MINIMUM OF 4 INCHES. TOPSOIL STOCKPILES SHALL BE COVERED TO PREVENT THE EXCESS SHALL BE SPREAD ON THE SITE WHERE DIRECTED BY THE ENGINEER OR DISPOSED OF OFFSITE.
5. ALL COMPACTED FILL AND BACKFILL MATERIAL SHALL BE SATISFACTORY MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. ALL FILL MATERIAL SHALL COMPACT LESS THAN 10 PERCENT OF OPTIMUM MOISTURE. FOR LARGE ROLLERS, THE MAXIMUM DRY DENSITY SHALL BE 98% OF OPTIMUM MOISTURE. SAMPLES OF THE FILL MATERIALS SHALL BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO THE START OF FILLING. ALL FILL MATERIALS SHALL BE COMPACTED TO A MINIMUM OF 98% OF OPTIMUM MOISTURE. ACCORDING TO ASTM D1557, ALL FILL MATERIALS SHALL BE COMPACTED TO 98% OF OPTIMUM MOISTURE. ALL FILL SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AND SHALL BE WITHIN $\pm 2\%$ OF OPTIMUM MOISTURE. THE BUILDING SHALL EXTEND AT LEAST 10 FEET BEYOND THE FOUNDATION WALLS. ALL FILL OUTSIDE THE PAVEMENT, SIDEWALK OR BUILDING SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557. ALL FILL MATERIALS SHALL BE PLACED IN LIFTS NOT TO EXCEED 8-INCHES. IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO ENSURE COMPACTION. THIS DRY DENSITY OF 90% MAXIMUM DRY DENSITY SHALL BE A MINIMUM REQUIREMENT. IT IS REQUIRED SUFFICIENTLY SO THAT THE MOISTURE CONTENT WILL PERMIT PROPER COMPACTION. EACH LAYER SHALL BE UNIFORMLY COMPACTED USING A VIBRATORY COMPACTOR OR OTHER APPROVED EQUIPMENT SUITED TO THE LOOSENESS OF THE MATERIAL. MATERIALS SHALL NOT EXCEED 4-INCHES IN LOOSE THICKNESS FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS.
6. IN-PLACE DENSITY TESTS SHALL BE PERFORMED THROUGHOUT THE BUILDING FILL EMBANKMENTS, AT EACH COMPACTED FILL AND BACKFILL LIFT. ONE (1) DENSITY TEST SHALL BE PERFORMED FOR EVERY 500 SQ. YD. OF FILL. NO CLAYED, BUT NO CLAYEY, OR NO MORE THAN TWO (2) PLAYS IN LIFTS. AREAS WHERE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE COMPACTION SPECIFICATIONS ARE NOT OBTAINED SHALL BE REWORKED UNTIL COMPACTION SPECIFICATIONS ARE MET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTRACTOR'S SUBSEQUENT ACTIVITY OR ADVERSE WEATHER CONDITIONS SHALL BE SCARIFIED AND RECOMPACTED AS SPECIFIED ABOVE PRIOR TO CONTINUATION OF CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL ISSUE A REPORT DOCUMENTING THE DEFICIENCY OF THE FINAL COMPACTED FILL TO THE ENGINEER.
7. UPON REACHING SUBGRADE ELEVATION IN AREAS THAT HAVE BEEN FILLED AND COMPACTED, OR IN AREAS WHERE THE PAVEMENT SUBGRADE ELEVATIONS ARE ACHIEVED WITHOUT FILL OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR ROLLING AND REFINISHING THE SUBGRADE TO THE FINISHED GRADE OR IN AREAS WHERE OTHER APPROVED EQUIPMENT, TO DETERMINE IF ANY POCKETS OF SOFT, UNSUITABLE MATERIALS ARE PRESENT. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINFORCEMENT OR COMPACTED GRANULAR FILL AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESENT DURING FILL-ROLLING OPERATIONS AND SHALL SUBMIT A REPORT OF ACCEPTANCE TO ENGINEER.
8. EXCAVATE FOR STRUCTURES TO WITHIN 0.1 FOOT OF THE DESIGN ELEVATIONS AND DIMENSIONS. EXTEND EXCAVATIONS A SUFFICIENT DISTANCE FROM STRUCTURES FOR PLACING AND REMOVING CONCRETE FORMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION OF THE EXCAVATION TO THE FINISHED GRADE BEFORE PLACING CONCRETE FORMS AND REINFORCEMENT SO FOOTINGS AND FOUNDATIONS BEAR ON UNDISTURBED COMPACTED SOILS.
9. BACKFILL MATERIAL SHALL MEET THE REQUIREMENTS OF AND SHALL BE COMPACTED ACCORDING TO THE EARLY SPECIFICATIONS OF THE INDOT STANDARD SPECIFICATIONS. THE BACKFILL SHALL BE PLACED IN LIFTS. THE BACKFILL MATERIAL SHALL BE PLACED EQUALLY ON BOTH SIDES TO AVOID UNBALANCED SOIL PRESSURE ON ONE SIDE.
10. TRENCHES UNDER PAVED AREAS SHALL BE BACKFILLED AND COMPACTED WITH PROPER GRANULAR MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION OF THE TRENCH TO A DEPTH OF PAVEMENT WITH A 1:1 SLOPE OUTWARD TO THE BOTTOM OF THE TRENCH.
11. DUE TO SITE CONSTRAINTS, THE EARTHWORK FOR THE SITE AS DESIGNED MAY OR MAY NOT BE BALANCED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXISTING EARTHWORK AND SHALL BE RESPONSIBLE FOR ALL EARTHWORK COSTS, INCLUDING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCED.

1. CONTRACTOR SHALL TAKE PARTICULAR CARE WHEN GRADING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
2. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48-HOURS BEFORE SITE GRADING IS TO START. TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPLICABLE UTILITY COMPANY. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND SHALL NOTIFY THE UTILITY COMPANY TO A REPRESENTATIVE CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
3. CONTRACTOR SHALL ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE.
4. AFTER STRIPPING TOPSOIL, MATERIAL PROOFROLL SHALL BE PERFORMED BY A LOADED TANDEM PNEUMATIC TYRE TRUCK OR EQUIVALENT. THE PROOFROLL SHALL BE PERFORMED AT A MINIMUM OF 10 PSI. THE PROOFROLL PRESSURES BETWEEN 70-80 PSI UNLESS OTHERWISE NOTED BY THE GEOTECHNICAL ENGINEER. THE TIRES SHALL BE INFLATED WITH AIR ONLY, NO LIQUID SHALL BE USED. THE PROOFROLL SHALL BE COMPLETED UNDER INSPECTION OF THE ENGINEER TO DETERMINE THE PROPOSED GRADE. THE PROOFROLL SHALL BE COMPLETED BEFORE SUBGRADE AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
5. FOLLOWING THE COMPLETION OF SITE GRADING AND SUBSURFACE UTILITY INSTALLATION, TOPSOIL SHALL BE PLACED TO A MINIMUM DEPTH OF 6 INCHES. THE FINISHED SURFACE SHALL BE GRADUALLY SLOPED TO A MINIMUM OF 1/4 INCHES. THE FINISHED SURFACE SHALL BE UNIFORMLY AND SMOOTHLY GRADED AND SHALL BE FREE OF ANY HOLES OR AREAS OF WEAKNESS. THE FINISHED SURFACE SHALL BE GRADUALLY SLOPED TO A MINIMUM OF 1/4 INCHES. THE FINISHED SURFACE GRADES SHALL NOT BE MORE THAN 0.1 FOOT ABOVE OR BELOW THE GRADES INDICATED ON THE PLANS. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADES AND ADJACENT FILL EMBANKMENTS.
6. PROTECT ALL EXISTING UTILITY LINES AND EQUIPMENT IN ALL AREAS, UPON REACHING FINAL GRADE, CONTRACTOR SHALL CORRECT ANY, STANDING WATER CONDITIONS.
7. ALL PROPOSED SLOPE ELEVATIONS OR CONTOURS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
8. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
9. CONTRACTOR SHALL PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR SHALL NOTIFY THE ENGINEER WITH ANY CHANGES TO THE EXISTING DRAINAGE SYSTEM.

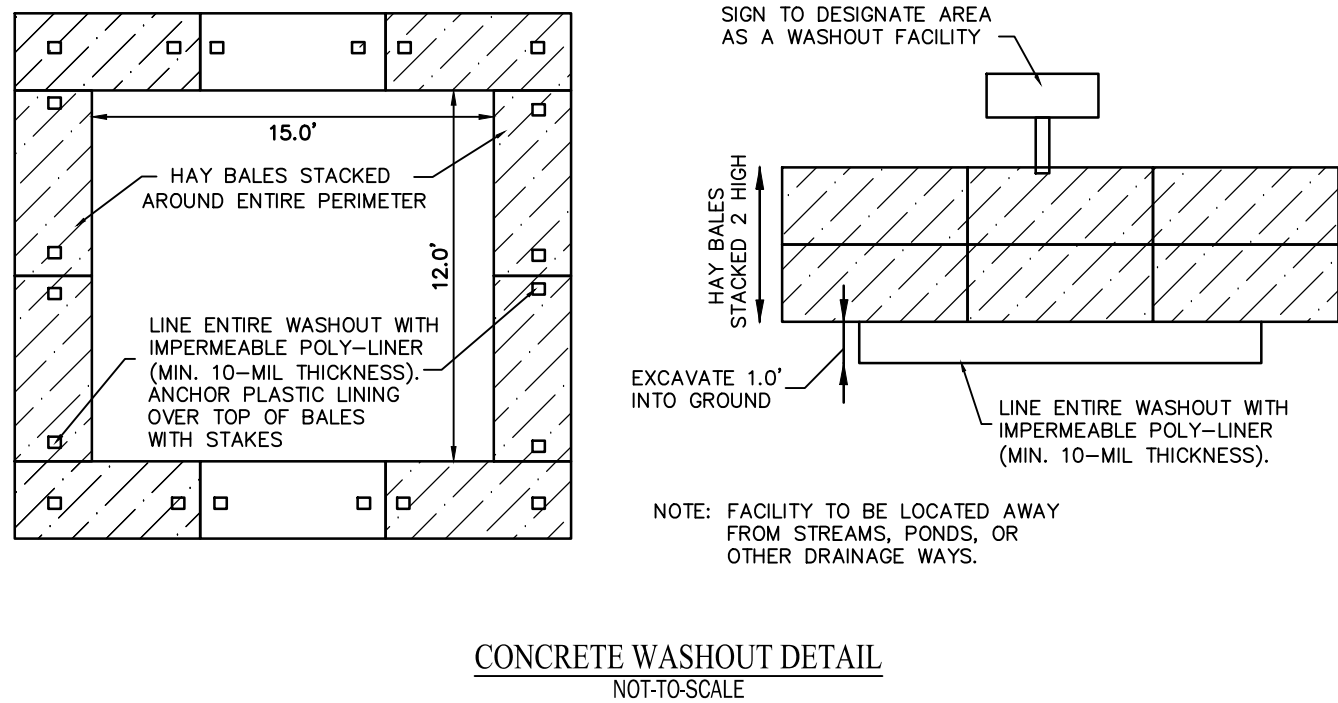
1. ALL WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH WATER MAIN SPECIFICATIONS OR SOUTH 43 WATER ASSOCIATION, INC. TYPICAL CONSTRUCTION STANDARDS, SPECIFICATIONS AND DETAILS. AND SHALL BE THE MINIMUM 12" DIAMETER FOR 10' OF INDIAN DRAINAGE DISTRICT.
2. THE CONTRACTOR SHALL FURNISH STALL AND TEST ALL VALVES. VALVES SHALL BE INSTALLED WITH VALVE BOX ALIGNERS (POSI-CLAPS) AND MUST BE CENTERED PRIOR TO ACCEPTANCE. VALVE OPENING DIRECTION SHALL BE RIGHT-HAND OPEN/COUNTERCLOCKWISE.
3. WATER MAINS AND SERVICE LINES SHALL HAVE A MINIMUM OF 3'-6" OF COVER OVER TOP OF THE PIPE. A MINIMUM OF 18-INCH VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN THE OUTSIDE WALLS OF WATER MAINS AND SEWERS (SANITARY AND STORM).
4. CONTRACTOR SHALL PERFORM ALL OF THE WORK ASSOCIATED WITH CONNECTIONS TO THE EXISTING FACILITY. THE CONTRACTOR SHALL COORDINATE THE CLOSURE OF VALVES, INSPECTION, AND ALL SERVICE SHUT-OFFS WITH LOCAL UTILITY COMPANY.
5. THE COMPLETED WATER LINE SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH WATER MAIN SPECIFICATIONS OR SOUTH 43 WATER ASSOCIATION, INC. REQUIREMENTS.
6. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAINS, CONTRACTOR SHALL EITHER ADOPT THE WATER LINE IN SUCH A MANNER AS TO AVOID THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR PIPE DEFLECTION AND/OR JOINT STRESS ARE NOT EXCEEDED.

1. CONSTRUCTION OF STORM DRAINS SHALL BE IN ACCORDANCE WITH THE STORM SEWER SPECIFICATIONS OR PUTNAM COUNTY TYPICAL CONSTRUCTION STANDARDS, SPECIFICATIONS AND DETAILS.
2. ALL MAIN LINE STORM SEWER PIPE SHALL BE CONSTRUCTED OF REINFORCED CONCRETE PIPE (RCP) OR HIGH DENSITY POLYETHYLENE (HDPE) PIPE. STORM DRAIN PIPE FOR ROOF DOWNSPOUT AND OTHER SMALL DRAIN CONNECTIONS MAY BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) 300-36" OR 48" PIPE AND SHALL MEET OR EXCEED ASTM D-3034 OR ASTM F-699, AS APPLICABLE. JOINTS SHALL BE GASKETED BELL AND SPIGOT TYPE WITH THE BELL END MADE INTEGRAL WITH THE PIPE. MATERIAL SUBSTITUTIONS SHALL BE REQUESTED IN WRITING TO ENGINEER.
3. A MINIMUM OF 18" VERTICAL SEPARATION AND 10'-0" HORIZONTAL SEPARATION TO BE MAINTAINED BETWEEN THE OUTSIDE WALLS OF WATER MAINS, HYDRANTS AND SEWERS (SANITARY AND STORM).
4. INLETS, JUNCTION BOXES AND MANHOLES MUST BE SIZED PROPERLY TO ACCOMMODATE THE PROPOSED PIPE SIZES.
5. PIPE LENGTHS SHOWN ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EXACT PIPE LENGTHS REQUIRED FOR INSTALLATION.

1. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH PUTNAM COUNTY AND INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) STANDARDS AND SPECIFICATIONS. DISCUSSIONS BETWEEN THE CONTRACTOR AND THE COUNTY ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STANDARDS AND SPECIFICATIONS.
2. PERMITTER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY COMMENCING.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SOIL AND EROSION CONTROL, AND DUST CONTROL MEASURES PRIOR TO AND DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN THE MEASURES THROUGHOUT THE CONSTRUCTION PERIOD TO PREVENT EROSION OF SOIL AND ENTRY OF SOIL-BEARING WATER AND AIRBORNE DUST INTO ADJACENT PROPERTIES AND INTO THE PUBLIC STORM WATER FACILITIES.
4. THE EROSION CONTROL PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT EROSION OF SOIL AND SEDIMENT. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
5. ALL CLEARING, DEMOLITION, EARTHWORK AND GRADING SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
6. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENT IN RECEIVING WATER. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE. SEDIMENT--LADEN GROUNDWATER ENCOUNTERED DURING REMEDIATION, BORING OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BE DISCHARGED INTO ANY DISCHARGE POND, STREAM OR WATERWAY.
7. WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED. CONTRACTOR SHALL KEEP ALL PUBLIC ROADWAYS CLEAN AND FREE FROM ANY CONSTRUCTION RELATED DEBRIS.
8. ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY. REMOVAL OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SOIL FOR DISPOSAL.
9. 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 PER WEEK.
10. PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC IF INSTALLATION OF STORM DRAINAGE SYSTEM IS INTERRUPTED FOR ANY REASON.
11. WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF THE SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED. THE DURATION OF THE TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. ALTERNATIVE MEASURES TO THE SITE STABILIZATION MEASURES MAY BE USED IF THEY ARE SHOWN TO BE MORE EFFECTIVE. IMPLEMENTED EROSION AND SEDIMENT CONTROL MEASURES ADEQUATE TO PREVENT SEDIMENT DISCHARGE.
12. 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.
13. SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES, AND CATCH BASINS. STOCKPILES SHALL BE COVERED WITH FILTER FABRIC OR PLASTIC. STOCKPILES SHALL BE FENCED, AND INSTALL PROTECTION FOR PAVING OPERATION AND REPLACE AFTER PAVING IS COMPLETE. INSTALL PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON ALL DISTURBED AREAS.
14. DETENTION BASINS, IF APPLICABLE, SHALL BE CONSTRUCTED FIRST AND SHALL PERFORM AS SEDIMENT BASINS DURING CONSTRUCTION UNTIL THE CONTRIBUTING DRAINAGE AREAS ARE SEEDED AND STABILIZED.
15. PRIOR TO COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND REMOVE ALL DEBRIS, LITTER AND OTHER UNDESIRABLE MATERIALS AND WEEDS.
16. CONTRACTOR SHALL REMOVE ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
NOT-TO-SCALE

[illegible]

C0.2

STORMWATER POLLUTION PREVENTION PLAN INDEX				
A1	PLAN INDEX	N/A	B12 SCHEDULE OF STORMWATER QUALITY MEASURES RELATED TO LAND DISTURBING ACTIVITIES	
A2	VIGNITY MAP	N/A		
A3	PROJECT TYPE	THIS PROJECT IS: SOUTH PUTNAM CS FOOTBALL TURF REPLACEMENT. THIS PROJECT CONSISTS OF THE REPLACEMENT OF FIELD Turf AND IMPROVEMENTS TO THE TRACK & FIELD AREA.		
A4	LATITUDE AND LONGITUDE	THE LATITUDE IS 39°34'54" AND LONGITUDE IS 86°48'53"		
A5	LEGAL DESCRIPTION	N/A		
A6	11X17 PLAT	N/A		
A7	100 YEAR FLOODPLAINS, FLOODWAYS AND FLOOD FRINGES	N/A		
A8	ADJACENT LAND USES	NORTH: SOUTH PUTNAM HIGH SCHOOL EAST: CENTRAL ELEMENTARY SCHOOL SOUTH: AGRICULTURAL WEST: HIGHWAY 231		
A9	IDENTIFICATION OF U.S. EPA APPROVED OR ESTABLISHED TMDL	N/A		
A10	RECEIVING WATERS	N/A		
A11	IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(a) LIST OF IMPAIRED WATERS AND THE POLLUTANT(S) FOR WHICH IT IS IMPAIRED.	N/A		
A12	SOILS MAP	N/A		
A13	LOCATION OF WETLANDS, LAKES, WATER COURSES ADJACENT TO SITE	N/A		
A14	STATE OR FEDERAL WATER QUALITY PERMITS	N/A		
A15	IDENTIFICATION OF EXISTING VEGETATIVE COVER, INCLUDING NATURAL BUFFERS	THE EXISTING SITE IS A TRACK & FIELD. C01-C1.0		
A16	EXISTING SITE TOPOGRAPHY	SEE SHEETS C0.1-C1.0		
A17	LOCATION(S) WHERE RUNOFF ENTERS PROJECT SITE	SEE SHEETS C1.0.		
A18	LOCATION(S) WHERE RUNOFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE	N/A		
A19	LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE.	N/A		
A20	EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT.	N/A		
A21	LOCATIONS WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUNDWATER, SUCH AS ABANDONED WELLS, SINKHOLES, OR KARST FEATURES	N/A		
A22	PROJECT AREA	0.00 ACRES		
A23	LAND DISTURBANCE	0.00 ACRES		
A24	PROPOSED SITE TOPOGRAPHY	SEE SHEETS C1.2		
A25	LOCATIONS AND BOUNDARIES OF DISTURBED AREAS	SEE SHEETS C1.0-C1.1		
A26	LOCATIONS, SIZES, DIMENSIONS OF PROPOSED STORMWATER SYSTEM	N/A		
A27	POINTS WHERE STORMWATER WILL DISCHARGE SITE	N/A		
A28	LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES AND COMMON AREAS.	SEE SHEETS C1.2-C1.3		
A29	LOCATION OF SOIL STOCKPILE	N/A		
A30	CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT	N/A		
A31	LOCATION OF ANY IN STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDED BUT NOT LIMITED TO, STREAM CROSSINGS AND PUMP AROUNDS	N/A		
B1	POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES	ERODED SOILS AND SEDIMENTS; OILS, GREASES, COOLANTS, CONCRETE WASHOUT, PETROLEUM FUELS AND OTHER FLUIDS ASSOCIATED WITH OPERATION AND MAINTENANCE OF CONSTRUCTION EQUIPMENT PRESENT ON THE SITE; DEBRIS INCLUDING CUTTINGS, SEALANTS, ADHESIVES, AND COATINGS ASSOCIATED WITH INSTALLATION OF UNDERGROUND PIPES, INFRASTRUCTURE AND CONSTRUCTION OF BUILDINGS; PLANTS ASSOCIATED WITH PAVEMENT MARKING; FERTILIZERS ASSOCIATED WITH SEEDING AND PLANTING.	B13 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS SEE SHEET C8.2	
B2	STABLE CONSTRUCTION ENTRANCE LOCATION AND SPECIFICATIONS	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE FOR LOCATIONS. SEE SHEETS C1.0 AND C1.1 FOR DETAILS. SEE SHEET C0.2		
B3	TEMPORARY AND PERMANENT STABILIZATION	TEMPORARY SEEDING IS REQUIRED FOR ANY POTENTIAL IDE AREA AND MUST INITIAL STABILIZATION ON THE SEVENTH DAY (7 DAYS) SUCH AS TEMPORARY SEEDING AND MULCH. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION PER IDEM CONSTRUCTION STORMWATER GENERAL PERMIT. TEMPORARY SEEDING IS ALSO REQUIRED IN AREAS THAT WILL BE DISTURBED IN FUTURE PROJECTS. THIS SEEDING WILL BE PLACED AFTER FINISH GRADING AND TOPSOIL REPLACEMENT FOR LOCATIONS. SEE SHEETS C1.1 FOR NOTES AND SCHEDULE. SEE SHEET C0.3		
B4	SEDIMENT CONTROL FOR CONCENTRATED FLOW AREAS	ROCK CHECK DAMS, TEMPORARY DIVERSION SWALES, SEDIMENT TRAPS, EROSION CONTROL BLANKETS AND RIP-RAP WILL BE INSTALLED TO REDUCE VELOCITY AND COLLECT SEDIMENT RUNOFF. FOR LOCATIONS: SEE SHEETS C1.1		
B5	SEDIMENT CONTROL FOR SHEET FLOW AREAS	SILT FENCE WILL BE INSTALLED ALONG THE PERIMETER OF THE PROJECT TO COLLECT SEDIMENT RUNOFF. FOR LOCATIONS: SEE SHEETS C1.0-C1.1 FOR DETAILS. SEE SHEET C0.2		
B6	RUNOFF CONTROL MEASURES	ALMOST ALL OF THE EROSION CONTROL MEASURES USED AT THIS SITE CAN BE VIEWED AS RUNOFF CONTROL MEASURES. CONSTRUCTION ENTRANCE STABILIZES EARTH TO MINIMIZE SEDIMENT RUNOFF AT CRITICAL LOCATIONS OF ACCESS POINTS TO THE SITE TO MINIMIZE SEDIMENT TRACKING ON STREETS. CONCRETE WASHOUT AREA ARE DISPOSAL AREAS FOR CONTAMINANTS AND ACCESSIBLE FOR CLEANUP AND REMOVAL OFFSITE. SILT FENCE AND INLET PROTECTION MEASURES COLLECT SEDIMENT LAIDN RUNOFF PRIOR TO LEAVING SITE. RIP-RAP REDUCES THE ENERGY OF THE RUNOFF AND THIS REDUCES POTENTIAL FOR EROSION. SOILS. EROSION CONTROL BLANKETS ANCHOR MATTING TO INCREASE SEED GERMINATION AND STABILIZES SLOPES TO MINIMIZE SEDIMENT RUNOFF. FOR LOCATIONS: SEE SHEETS C1.0-C1.1 FOR DETAILS. SEE SHEET C0.2		
B7	STORMWATER OUTLET PROTECTION	RIP-RAP WILL BE INSTALLED AT ALL STORM PIPE OUTLETS INTO THE PONDS, AND ALL POND OUTLETS AS OUTLET PROTECTION (IF APPLICABLE). FOR LOCATIONS: SEE SHEETS C1.0-C1.1 FOR DETAILS. SEE SHEET C0.2		
B8	GRADE STABILIZATION STRUCTURES	NONE		
B9	DEWATERING APPLICATIONS AND MANAGEMENT METHODS	ALL CONTRACTORS AND VENDORS ARE RESPONSIBLE FOR PREPARING AN APPROPRIATE DEWATERING PLAN BASED ON NEED, WHICH CAN VARY FROM UTILITY INSTALLATION, LOWERING OF PONDS, HOME FOUNDATIONS/BASEMENTS ETC. IN NO CIRCUMSTANCES SHOULD DEWATERING OPERATIONS BEGIN BASED ON ASSUMPTION WATER IS CLEAN. OFTEN SEDIMENT LAIDN WATER IS ENCOUNTERED TOWARDS THE END OF THE OPERATION AND NOT THE BEGINNING. DEWATERING REQUIRES INTENSIVE MEASURES FOR MAINTENANCE, FREQUENT MONITORING, CLEANOUT, REPAIR AND/OR REPLACEMENTS. SUBMIT DEWATERING PLAN PRIOR TO COMMENCING WORK TO FORESTAR PROJECT MANAGER FOR APPROVAL.		
B10	MEASURES UTILIZED FOR WORK WITHIN WATERSHEDS	NONE		
B11	MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE	SEE SHEETS C0.3		
CONSTRUCTION SCHEDULE				
9. BEGIN CLEARING AND GRADING ACTIVITIES AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND ITEMS 1-8 OF THE PRE-CONSTRUCTION SCHEDULE ARE COMPLETE. EARTHMOVING SHALL BE DONE IN A MANNER TO MINIMIZE EROSION. CONTRACTOR SHALL VERIFY ALL EXISTING STORM SEWER AND UTILITY CONNECTION LOCATIONS AND ELEVATION PRIOR TO MOVING EARTH. CONTACT ENGINEER WITH ANY DISCREPANCIES. AS GRADING PROGRESSES, INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES TO CONTAIN SEDIMENT ON SITE.				
10. CONTRACTOR SHALL STRIP TOPSOIL AND GRADE THE SITE PER PLAN AND PLACE PERMANENT AND TEMPORARY SEED AS INDICATED ON THE PLAN, INCLUDING SEEDING WITH FIBER BLANKET ON MOUNDS, POND BANKS, SWALES. DURATION OF EXPOSED AREAS SHALL BE KEPT MINIMAL. DEPENDENT ON THE POTENTIALLY DUL AREAS AVAILABLE. STABILIZATION ON THE SEVENTH DAY (7 DAYS) SUCH AS TEMPORARY SEEDING AND MULCH. THE STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN FOURTEEN (14) DAYS AFTER INITIATION PER IDEM CONSTRUCTION STORMWATER GENERAL PERMIT.				
11. PERMANENT AND FINAL VEGETATION, IN ADDITION TO STRUCTURAL MEASURES, SHALL BE INSTALLED AS SOON AS PRACTICAL PER SHEETS C1.7-C1.8.				
12. INSTALL STORM SEWER SYSTEM, SUBSURFACE DRAINAGE SYSTEM, AND SWALES. ALL STORM SEWER INLET PROTECTION SHALL BE INSTALLED AT THE TIME EACH INLET IS CONSTRUCTED PER SHEETS C1.7-C1.11.				
13. CONTRACTOR SHALL INSTALL REMAINING UTILITIES AND RE-SEED ALL DISTURBED AREAS.				
14. CONTRACTOR SHALL INSTALL ALL STREETS AS INDICATED ON PLANS.				
15. INSTALL LOT SPECIFIC BMPs INCLUDING WASTE RECEPTACLES, CURB LINE BMPs, WASHOUTS, AND STABILIZED ENTRANCES.				
16. INSTALL HOME (VERTICAL) CONSTRUCTION CONCRETE WASHOUT. FORESTAR PROJECT MANAGER TO ORDER PREFABRICATED CONCRETE WASHOUT LOW PROFILE DUMPSTER FROM "CONSTRUCTION WASTE" COMPANY AND PROVIDE DIRECTION ON LOCATION FOR INSTALLATION. SEE DETAIL SHEET.				
17. BUILDING FOUNDATION EXCAVATIONS.				
18. VERTICAL CONSTRUCTION AND HOME BUILDING.				
19. INSTALL PERMANENT OR TEMPORARY SOIL STABILIZATION AND LANDSCAPING.				
20. CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION AND UNTIL SEDIMENTATION OF STREETS AND STORM SEWERS NO LONGER OCCURS. CONTRACTOR SHALL INSPECT ON A WEEKLY BASIS OR AFTER A SIGNIFICANT STORM EVENT (AN EVENT OF AT LEAST 0.5 INCHES OF RAINFALL). SEE SHEETS C0.3-C0.4 FOR DETAILS AND SPECIFICATIONS.				
21. COMPLETE FINAL GRADING AND INSTALL SEEDING AND LANDSCAPING. STABILIZE ALL REMAINING EXPOSED AREAS AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES.				
22. ALL EROSION AND SEDIMENT CONTROL SHALL COMPLY WITH IDEM CONSTRUCTION STORMWATER GENERAL PERMIT.				
B14 MATERIAL HANDLING AND SPILL PREVENTION PLAN				
MATERIAL HANDLING: 1. ALL WASTE MANAGEMENT AND DISPOSAL OF WASTE SHOULD BE PRACTICED ON SITE AT ALL TIMES TO REDUCE POLLUTION OF STORM WATER RUNOFF. HAZARDOUS WASTE SHOULD ALWAYS BE DISPOSED OF THROUGH A DESIGNATED HAZARDOUS WASTE MANAGEMENT FIRM. 2. DESIGNATE A WASTE COLLECTION AREA ON-SITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND WITHIN THE PROJECT LIMITS. 3. KEEP PRODUCTS IN ORIGINAL CONTAINERS WITH ORIGINAL LABELS AND MATERIAL SAFETY DATA INFORMATION ATTACHED. MAKE SURE PRODUCTS ARE PROPERLY SEALED TO PREVENT LEAKS AND SPILLS AND STORED IN A WEATHER PROOF SELF-CONTAINED AREA AWAY FROM HEAT, SOLAR, AND FLAMES. 4. A PROGRAM FOR RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE SHALL BE ESTABLISHED BY THE CONTRACTOR. ALL RECYCLING CONTAINERS SHALL BE CLEARLY LABELED. 5. ALL CONSTRUCTION ACTIVITIES ARE TO BE MONITORED AND MAINTAINED BY THE CONTRACTOR. AS EACH NEW SUBCONTRACTOR COMMENCES WORK, THE CONTRACTOR SHALL ADVISE THEM OF THE PROJECT'S WASTE MANAGEMENT PLAN. 6. CONTAINERS AND EQUIPMENT MUST BE INSPECTED REGULARLY FOR LEAKS, CORROSION, SUPPORT OR FOUNDATION FAILURE, OR OTHER SIGNS OF WEAR, DAMAGE, AND MUST BE TESTED FOR SOUNDNESS. ANY FOUND TO BE DEFECTIVE SHOULD BE REPAIRED OR REPLACED IMMEDIATELY.				
SPILL PREVENTION PLAN: PURPOSE: THE INTENTION OF THIS SPILL PREVENTION, CONTROL, AND COUNTERMEASURES (SPCC) IS TO ESTABLISH THE PROCEDURES AND EQUIPMENT REQUIRED TO PREVENT OIL AND HAZARDOUS SUBSTANCES IN QUANTITIES THAT VIOLATE APPLICABLE WATER QUALITY STANDARDS, CAUSE A SHEEN UPON OR DISCOLORATION OF THE SURFACE OF NAVIGABLE WATERS OR SO ADJACENT SHORELINES AS TO BE DETECTED BY VISUAL INSPECTION OF THE SURFACE OF THE WATER OR ADJACING SHORELINES. THE PLAN ALSO ESTABLISHES THE ACTIVITIES REQUIRED TO MITIGATE SUCH DISCHARGES (I.E., COUNTERMEASURES) SHOULD THEY OCCUR. DEFINITIONS: POLLUTANT: MEANS POLLUTION OF ANY KIND OR IN ANY FORM, INCLUDING BUT NOT LIMITED TO SEDIMENT, PAINT, CLEANING AGENT, CONCRETE WASHOUT, PESTICIDES, NUTRIENTS, TRASH, HYDRAULIC FLUIDS, FUEL, OIL, PETROLEUM, FUEL OIL, SLUDGE, OIL REFUSE, AND OIL MIXED WITH WASTES OTHER THAN DREXED SOIL. DISCHARGE: INCLUDES BUT IS NOT LIMITED TO, ANY SPILLING, LEAKING, PUMPING, POURING, EMITTING, EMPTYING, OR DUMPING. NAVIGABLE WATERS: MEANS ALL WATERS OF THE UNITED STATES THAT ARE CONNECTED WITH A NAVIGABLE STRAINE, LAKE, OR SEA. [NOTE: THIS DEFINITION IS USUALLY INTERPRETED TO MEAN ANY WASTEWATER (EVEN NORMALLY DRY WASH OR STORM SEWER) THAT EVENTUALLY DRAINS INTO A NAVIGABLE STRAINE]. PLAN REVIEW AND AMENDMENTS: THIS PLAN SHALL BE REVIEWED AND/OR AMENDED, IF NECESSARY, WHENEVER THERE IS A CHANGE IN THE DESIGN OF THE SITE, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH MATERIALLY AFFECTS THE SITE'S POTENTIAL FOR THE DISCHARGE OF REGULATED MATERIAL. PREDICTION OF POTENTIAL SPILLS: 1. NEAREST NAVIGABLE WATER-INDIAN CREEK-SAND CREEK 2. DRAINAGE SYSTEM: ALL STORM DRAINAGE LEAVES THE SITE THROUGH PROPOSED STORM SEWER THAT OUTLETS TO THE EXISTING LEGAL DRAINAGE OF THE DEVELOPMENT. 3. POSSIBLE SPILL SOURCES (DURING AND POST CONSTRUCTION): VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, GREASE, ANTIFREEZE, TRASH AND DEBRIS, BIOLOGICAL WASTE, AND OTHER LIQUID WASTES. 4. HOUSEHOLD ITEMS INCLUDING BUT NOT LIMITED TO CLEANING AGENTS, CHEMICALS, PAINT, HERBICIDES AND PESTICIDES. 5. GROUNDWATER CONTAMINATION: THE FACILITY MAINTAINS NO ABOVE GROUND OR UNDER GROUND STORAGE TANKS AT THIS SITE. THEREFORE, IT IS FELT THERE IS LITTLE OR NO POSSIBILITY OF POST CONSTRUCTION GROUNDWATER CONTAMINATION. THE FACILITY DOES HAVE PUBLIC SANITARY SEWER AND PUBLIC WATER. ALERT PROCEDURES FOR SPILLS: 1. ANY PERSONNEL OBSERVING A SPILL WILL IMMEDIATELY INSTIGATE THE FOLLOWING PROCEDURE: A. DIALING 911 FROM ANY TELEPHONE. B. NOTIFY THE APPROPRIATE EMERGENCY PERSONNEL. 2. THE EMERGENCY COORDINATOR WILL THEN TAKE THE FOLLOWING ACTIONS: A. BARRICADE THE AREA ALLOWING NO VEHICLES TO ENTER OR LEAVE THE SPILL ZONE. B. NOTIFY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF EMERGENCY RESPONSE BY CALLING THE APPROPRIATE TELEPHONE NUMBER: OFFICE 317-233-7745 TOLL FREE 800-233-7745 C. NOTIFY THE NATIONAL RESPONSE CENTER AT 800-424-8802 AND PROVIDE THE FOLLOWING INFORMATION: - TIME OF OBSERVATION OF THE SPILL - LOCATION OF THE SPILL - IDENTITY OF MATERIAL SPILLED - PROBABLE SOURCE OF THE SPILL - PROBABLE TIME OF THE SPILL - VOLUME OF THE SPILL AND DURATION - PRESENT AND ANTICIPATED MOVEMENT OF THE SPILL - WEATHER CONDITIONS - PERSONNEL AT THE SCENE ACTION INITIATED BY PERSONNEL: C. NOTIFY THE CITY OF MARTINSVILLE FIRE DEPARTMENT PHONE: (765) 342-2343 D. NOTIFY THE CITY OF MARTINSVILLE POLICE DEPARTMENT PHONE: (765) 342-2343 E. NOTIFY WASTE RECOVERY CONTRACTOR, MAINTENANCE PERSONNEL, OR OTHER CONTRACTUAL PERSONNEL AS NECESSARY FOR CLEANUP. F. COORDINATE AND MONITOR CLEANUP UNTIL THE SITUATION HAS BEEN STABILIZE AND ALL SPILLS HAVE BEEN ELIMINATED. G. COOPERATE WITH THE IDEM-GER ON PROCEDURES AND REPORTS INVOLVED WITH THE EVENT.				
CLEANUP PARAMETERS: 1. THE DEVELOPER SHALL BE CONTINUALLY KEPT INFORMED, MAINTAIN LISTS OF QUALIFIED CONTRACTORS AND AVAILABLE VAC-TRUCKS, TANK PUMPS AND OTHER EQUIPMENT READILY ACCESSIBLE FOR CLEAN-UP OPERATIONS. IN ADDITION, THE DEVELOPER SHALL MAINTAIN A CONTINUALLY UPDATED LIST OF AVAILABLE ABSORBENT MATERIALS AND CLEAN-UP SUPPLIES SHOULD BE KEPT ON SITE. 2. ALL MAINTENANCE PERSONNEL WILL BE MADE AWARE OF TECHNIQUES FOR PREVENTION AND CONTAINMENT OF SPILLS. THEY WILL BE INFORMED OF THE REQUIREMENTS AND PROCEDURES OUTLINED IN THIS PLAN. THEY WILL BE KEPT ABEAST OF CURRENT DEVELOPMENTS OR NEW INFORMATION ON THE PREVENTION OF SPILLS AND/OR NECESSARY ALTERATIONS TO THIS PLAN. 3. IF SPILLS OCCUR WHICH COULD ENDANGER HUMAN LIFE, THIS BECOMES THE PRIMARY CONCERN. THE DISCHARGE OF THE LIFE SAVING PROTECTION FUNCTION WILL BE CARRIED OUT BY THE LOCAL POLICE AND FIRE DEPARTMENTS. 4. ABSORBENT MATERIALS, WHICH ARE USED IN CLEANING UP SPILLED MATERIALS, WILL BE DISPOSED OF IN A MANNER SUBJECT TO THE APPROVAL OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. 5. FISHING OF SPILLED MATERIAL WITH WATER WILL NOT BE PERMITTED UNLESS SO AUTHORIZED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.				
B15 MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY				
VEHICLE & EQUIPMENT MAINTENANCE				
DESCRIPTION AND PURPOSE: PREVENT OR REDUCE THE CONTAMINATION OF STORMWATER RESULTING FROM VEHICLE AND EQUIPMENT MAINTENANCE BY RUNNING A "DRY AND CLEAN SITE." THE BEST OPTION WOULD BE TO PERFORM MAINTENANCE ACTIVITIES AT AN OFFSITE FACILITY. IF THIS OPTION IS NOT AVAILABLE THEN WORK SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY WHILE PROVIDING COVER FOR MATERIALS STORED OUTSIDE, CHECKING FOR LEAKS AND SPILLS, AND CONTAINING AND CLEANING UP SPILLS IMMEDIATELY.				
SUITABLE APPLICATIONS: THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION PROJECTS WHERE AN ONSITE YARD AREA IS NECESSARY FOR STORAGE AND MAINTENANCE OF HEAVY EQUIPMENT AND VEHICLES.				
LIMITATIONS: ONSITE VEHICLE AND EQUIPMENT MAINTENANCE SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR MAINTENANCE AND REPAIR. SENDING VEHICLES/EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT.				
IMPLEMENTATION: USE OFFSITE FUELING STATIONS AS MUCH AS POSSIBLE. THESE BUSINESSES ARE BETTER EQUIPPED TO HANDLE FUEL AND SPILLS. OFFSITE FUELING, PERFORMING THIS WORK OFFSITE CAN ALSO BE ECONOMICAL BY ELIMINATING THE NEED FOR A SEPARATE FUELING AREA AT A SITE.				
DISCOURAGE "TOPPING OFF" OF FUEL TANKS.				
ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHOULD BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS AND SHOULD BE DISPOSED OF PROPERLY AFTER USE.				
THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA.				
USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY.				
AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE. RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS.				
TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING AND CLEANUP PROCEDURES.				
DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNOFF AND RUNOFF AND SHOULD BE LOCATED AT LEAST 50 FT AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL GRADE AREAS.				
PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNOFF, RUNOFF, AND TO CONTAIN SPILLS.				
NOZZLES USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED.				
FEDERAL, STATE, AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS.				
VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY, OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.				
KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE.				
IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANUP MATERIALS.				
CONCRETE WASHOUT				
THE FOLLOWING STEPS WILL HELP REDUCE STORMWATER POLLUTION FROM CONCRETE WASTES: 1. DISPOSE OF THE CONCRETE MANAGEMENT TECHNIQUES DESCRIBED IN THIS BMP (SUCH AS HANDLING OF CONCRETE WASTE AND WASHOUT) WITH THE READY MIX CONCRETE SUPPLIER BEFORE ANY DELIVERIES ARE MADE.				
INCORPORATE REQUIREMENTS FOR CONCRETE WASTE MANAGEMENT INTO MATERIAL SUPPLIES AND SUBCONTRACTOR AGREEMENTS.				
STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS.				
AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE.				
PERFORM WASHOUT OF CONCRETE TRUCKS OFFSITE OR IN DESIGNATED AREAS.				
DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.				
DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED AREAS.				
SOLID WASTE MANAGEMENT				
DESCRIPTION AND PURPOSE: SOLID WASTE MANAGEMENT PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM SOLID OR CONSTRUCTION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS, ARRANGING FOR REGULAR DISPOSAL, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.				
SUITABLE APPLICATIONS: THIS BMP IS SUITABLE FOR CONSTRUCTION SITES WHERE THE FOLLOWING WASTES ARE GENERATED OR STORED: - SOLID WASTE GENERATED FROM TREES AND SHRUBS REMOVED DURING LAND CLEARING, DEMOLITION OF EXISTING STRUCTURES (RUBBLE), AND BUILDING CONSTRUCTION.				
PACKAGING MATERIALS INCLUDING WOOD, PAPER, AND PLASTIC. SCRAP OR SURPLUS BUILDING MATERIALS INCLUDING SCRAP METALS, RUBBER, PLASTIC, GLASS PIECES AND MASONRY PRODUCTS.				
DOMESTIC WASTES INCLUDING FOOD CONTAINERS SUCH AS BEVERAGE CANS, COFFEE CUPS, PAPER BAGS, PLASTIC WRAPPERS, AND CIGARETTES.				
CONSTRUCTION WASTES INCLUDING BRICK, MORTAR, TIMBER, STEEL AND METAL SCRAPS, PIPE AND ELECTRICAL CUTTINGS, NONHAZARDOUS EQUIPMENT PARTS, STYROFOAM AND OTHER MATERIALS FROM TRANSPORT AND PACKAGE CONSTRUCTION MATERIALS.				
IMPLEMENTATION: SELECT DESIGNATED WASTE COLLECTION AREAS ONSITE.				
INFORM CONTRACTORS THAT THEY WILL ACCEPT ONLY WATERTIGHT DUMPSTERS FOR ONSITE USE.				
INSPECT DUMPSTERS FOR LEAKS AND REPAIR ANY DUMPSTER THAT IS NOT WATERTIGHT.				
PROVIDE AN ADEQUATE NUMBER OF CONTAINERS WITH LIDS OR COVERS THAT CAN BE PLACED OVER THE CONTAINER TO KEEP RAIN OR OTHER WEATHER FROM WASTES WHEN IT IS WINDY.				
PLAN FOR ADDITIONAL CONTAINERS AND MORE FREQUENT PICKUP DURING THE DEMOLITION PHASE OF CONSTRUCTION.				
COLLECT SITE TRASH DAILY, ESPECIALLY DURING RAINY AND WINDY CONDITIONS.				
REMOVE THIS SOLID WASTE PROMPTLY SINCE EROSION AND SEDIMENT CONTROL DEVICES TEND TO COLLECT LITTER.				
MAKE SURE THAT TOXIC LIQUID WASTES (USED OILS, SOLVENTS, AND PAINTS) AND CHEMICALS (ACIDS, PESTICIDES, ADDITIVES, CURING COMPOUNDS) ARE NOT DISPOSED OF IN DUMPSTERS DESIGNATED FOR CONSTRUCTION DEBRIS.				
DO NOT HOSE OUT DUMPSTERS ON THE CONSTRUCTION SITE. LEAVE DUMPSTER CLEANING TO THE TRASH HAULING CONTRACTOR.				
ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS OVERFLOW.				
CLEAN UP IMMEDIATELY IF A CONTAINER DOES SPILL.				
MAKE SURE THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS.				
INCORPORATE REQUIREMENTS FOR SOLID WASTE MANAGEMENT INTO BUILDER AND SUBCONTRACTOR AGREEMENTS.				
LITTERING ON THE PROJECT SITE SHOULD BE PROHIBITED.				
TO PREVENT CLOGGING OF THE STORM DRAINAGE SYSTEM, LITTER AND DEBRIS REMOVAL FROM DRAINAGE GRATES, TRASH RACKS, AND DITCH LINES SHOULD BE A PRIORITY.				
TRASH RECEPTACLES SHOULD BE PROVIDED IN THE CONTRACTOR'S YARD, FIELD TRAILER AREAS, AND AT LOCATIONS WHERE WORKERS CONGREGATE FOR LUNCH AND BREAK PERIODS.				
LITTER FROM WORK AREAS WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT SITE SHOULD BE COLLECTED AND PLACED IN WATERPROOF DUMPSTERS AT LEAST WEEKLY, REGARDLESS OF WHETHER THE TRASH WAS GENERATED BY THE CONTRACTOR, THE PUBLIC OR OTHERS. TRASH SHOULD NOT BE PLACED IN OR NEXT TO DRAIN LINES, STORMWATER DRAINAGE SYSTEMS, OR WATERCOURSES.				
DUMPSTERS OF APPROPRIATE SIZE AND NUMBER SHOULD BE PROVIDED TO CONTAIN THE SOLID WASTE GENERATED BY THE PROJECT.				
FULL DUMPSTERS SHOULD BE REMOVED FROM THE PROJECT SITE AND THE CONTENTS SHOULD BE DISPOSED OF BY THE TRASH HAULING CONTRACTOR.				

CONSTRUCTION DEBRIS AND WASTE SHOULD BE REMOVED FROM THE SITE BIWEEKLY OR MORE FREQUENTLY AS NEEDED.

CONSTRUCTION MATERIAL VISIBLE TO THE PUBLIC SHOULD BE STORED OR STACKED IN AN ORDERLY MANNER.

STORMWATER RUNOFF SHOULD BE PREVENTED FROM CONTACTING STORED SOLID WASTE THROUGH THE USE OF BERMED AREAS OR OTHER TEMPORARY DEBRIS COLLECTION STRUCTURES OR THROUGH THE USE OF MEASURE TO ELEVATE WASTE FROM SITE SURFACES.

SOLID WASTE STORAGE AREAS SHOULD BE LOCATED AT LEAST 50 FT FROM DRAINAGE FACILITIES AND WATERCOURSES AND SHOULD NOT BE LOCATED IN AREA PRONE TO FLOODING OR PONDING.

INSPECTION AND MAINTENANCE
INSPECT CONSTRUCTION WASTE AREA WEEKLY.
ARRANGE FOR REGULAR WASTE COLLECTION.

DEWATERING AND PUMPING OPERATIONS
DESCRIPTION AND PURPOSE:
DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF POLLUTANTS WHEN CHANGING OR REPLACING OF FLUIDS, AND OUTDOOR EQUIPMENT STORAGE AND PARKING (ENGINE FLUID LEAKS).
IMPLEMENTATION:
IF MAINTENANCE MUST OCCUR ONSITE, USE DESIGNATED AREAS, LOCATED AWAY FROM DRAINAGE OR EARTHWORK ACTIVITIES, DEDICATED MAINTENANCE AREAS SHOULD BE PROTECTED FROM STORMWATER RUNOFF AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES.

SUITABLE APPLICATIONS:
THESE PRACTICES ARE IMPLEMENTED FOR DISCHARGES OF NON-STORMWATER FROM CONSTRUCTION TO STORMWATER. NON-STORMWATER INCLUDES, BUT ARE NOT LIMITED TO, GREASES, USED OIL, OIL FILTERS, COFFERDAMS, WATER DIVERSIONS, AND WATERS USED DURING CONSTRUCTION ACTIVITIES THAT MUST BE REMOVED FROM A WORK AREA. PRACTICES OUTLINED IN THIS SECTION ARE ALSO APPLICABLE FOR IMPLEMENTATION WHEN MANAGING THE REMOVAL OF ACCUMULATED PRECIPITATION (STORMWATER) FROM DEPRESSED AREAS AT A CONSTRUCTION SITE.

LIMITATIONS:
SITE CONDITIONS WILL DICTATE DESIGN AND USE OF DEWATERING OPERATIONS. THE CONTROLS DISCUSSED IN THIS BEST MANAGEMENT PRACTICE (BMP) ADDRESS SEDIMENT ONLY. THE CONTROLS DETAILED IN THIS SEDIMENT PARTICLES, USE ONLY WHEN SITE CONDITIONS RESTRICT THE USE OF THE OTHER CONTROL METHODS. DEWATERING OPERATIONS WILL REQUIRE, AND MUST COMPLY WITH, APPLICABLE LOCAL PERMITS.

IMPLEMENTATION:
DISCHARGES MUST NOT CAUSE EROSION AT THE DISCHARGE POINT. A VARIETY OF METHODS CAN BE USED TO TREAT WATER DURING DEWATERING OPERATIONS. SEVERAL DEVICES ARE PRESENTED BELOW AND PROVIDE OPTIONS TO ACHIEVE SEDIMENT REMOVAL. THE SIZE OF PARTICLES PRESENT IN THE SEDIMENT AND PERMIT OR RECEIVING WATER LIMITATIONS ON SEDIMENT RISK KEY CONSIDERATIONS FOR SELECTING SEDIMENT TREATMENT OPTION(S). IN SOME CASES, THE USE OF MULTIPLE DEVICES MAY BE APPROPRIATE.

SEDIMENT TRAP
DESCRIPTION:
A SEDIMENT TRAP IS A TEMPORARY BASIN FORMED BY EXCAVATION AND/OR CONSTRUCTION OF AN EARTHEN EMBANKMENT ACROSS A WATERWAY OR LOW DRAINAGE AREA TO DETAIN RUNOFF AND ALLOW SEDIMENT TO SETTLE OUT BEFORE DISCHARGING. SEDIMENT TRAPS ARE GENERALLY SMALLER THAN SEDIMENT BASINS.

APPROPRIATE APPLICATIONS
EFFECTIVE FOR THE REMOVAL OF LARGE AND MEDIUM SIZED PARTICLES (SAND AND GRAVEL) AND SOME METALS THAT SETTLE OUT WITH THE SEDIMENT.

IMPLEMENTATION
EXCAVATION AND CONSTRUCTION OF RELATED FACILITIES IS REQUIRED. TRAP INLETS SHOULD BE LOCATED TO MAXIMIZE THE TRAP DISTANCE TO THE TRAP OUTLET. USE ROCK OR VEGETATION TO PROTECT THE TRAP OUTLETS AGAINST EROSION.

MAINTENANCE
MAINTENANCE IS REQUIRED FOR SEDIMENT, EMBANKMENT, INLET AND OUTFALL STRUCTURES, AS WELL AS OTHER FEATURES. REMOVAL OF VEGETATION IS REQUIRED WHEN THE STORAGE VOLUME IS REDUCED BY ONE THIRD.

GRAVITY BAG FILTER (DEWATERING BAG)
DESCRIPTION:
A GRAVITY BAG FILTER, ALSO REFERRED TO AS A DEWATERING BAG, IS A SQUARE OR RECTANGULAR BAG MADE OF NON-WOVEN GEOTEXTILE FABRIC THAT COLLECTS SAND, SILT, AND FINES.

APPROPRIATE APPLICATIONS
EFFECTIVE FOR THE REMOVAL OF SEDIMENTS (GRAVEL, SAND, AND SILT). SOME METALS ARE REMOVED WITH THE SEDIMENT.

IMPLEMENTATION
WATER IS PUMPED INTO ONE SIDE OF THE BAG AND SEEPS THROUGH THE BOTTOM AND SIDES OF THE BAG. A SECONDARY BARRIER, SUCH AS A ROCK FILTER BED OR STRAW/HAY BALE BARRIER, IS PLACED BENEATH AND BEYOND THE EDGES OF THE BAG TO CAPTURE SEDIMENTS THAT ESCAPE THE BAG.

MAINTENANCE
INSPECTION OF THE FLOW CONDITIONS, BAG CONDITION, BAG CAPACITY, AND THE SECONDARY BARRIER IS REQUIRED. REPLACE THE BAG WHEN IT NO LONGER FILTERS SEDIMENT OR PASSES WATER AT A REASONABLE RATE. THE BAG IS DISPOSED OF OFFSITE.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE:
LEAVES, MULCH, VEHICULAR SOURCES SUCH AS LEAKING FUEL OR OIL, BRAKE FLUID, BRAKE FLUID, GREASE, ANTIFREEZE, TRASH AND DEBRIS, RUBBER FRAGMENTS, ROAD GRIT, SALTS AND SANDS, TRASH AND DEBRIS, FERTILIZERS, CLEANING AGENTS, CHEMICALS, PAINT, ANIMAL WASTE, ELEVATED STORM RUNOFF TEMPERATURES, PESTICIDES AND PATHOGENS.

C2 DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES:
VEGETATED SWALES
THE VEGETATED SWALES INSTALLED DURING CONSTRUCTION WILL SLOW RUNOFF AND ACT AS A SLOWING THE RUNOFF WILL NOT ONLY ALLOW SEDIMENT TO DROP OUT, BUT LIMIT THE ABILITY FOR SEDIMENT TO ERODE AND CARRY POLLUTANTS DOWNSTREAM.

PERMANENT SEEDING
PERMANENT SEEDING WILL BE PLACED TO ACT AS A FILTER AND TO PREVENT EROSION.

WET DETENTION BASIN
THEY SERVE TO CONTROL THE VOLUME AND RATE OF RUNOFF. THE FACILITY REMOVES SEDIMENT, TRASH, DEBRIS, AND TRACES METALS THROUGH THE PROCESS OF SETTLING. THEY ALSO REMOVE POLLUTANTS, BIOLOGICAL PROCESSES OCCURRING IN THE POND AND IN REDUCING THE AMOUNT OF POLLUTANTS THAT ENTER THE RECEIVING WATER BODY.

C3 LOCATION, DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS OF STORMWATER QUALITY MEASURES:
FOR LOCATIONS SEE PLAN SET: SHEETS C1.5-C1.8
FOR DETAILS: SEE SHEET C8.2

C4 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION:
REFERENCE EROSION CONTROL SEQUENCING
SEE PLAN SET: PRE-CONSTRUCTION AND POST-CONSTRUCTION STORMWATER POLLUTION PREVENTION PLANS, SHEETS C1.5-C1.8

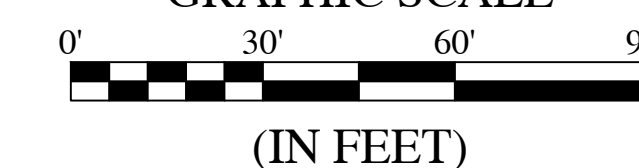
VEGETATED SWALES
THEY WILL BE CONSTRUCTED DURING AND FOLLOWING THE MASS GRADING OF THE SITE. THEY WILL BE IMMEDIATELY STABILIZED WITH PERMANENT SEEDING TO MINIMIZE EROSION. BLANKETS AS SHOWN ON THE PLAN. THEY WILL PERSIST IN THE POST CONSTRUCTION PHASE AS MAINTENANCE NEEDS.

PERMANENT SEEDING
PERMANENT SEEDING OF EXPOSED AREAS SHALL BE INITIATED ON THE SEVENTH (7TH) DAY AND STABILIZATION ACTIVITY SHALL BE COMPLETED BY THE FOURTEENTH (14) DAY ONCE FINAL GRADING IS COMPLETED.

WET DETENTION BASIN
WET DETENTION BASIN WILL BE INITIALLY EXCAVATED AS PART OF MASS GRADING OF THE SITE. IT WILL BE USED THROUGHOUT THE CONSTRUCTION PHASE TO DETAIN RUNOFF AND PREVENT IT INTO THE POST CONSTRUCTION PHASE AS PERMANENT FEATURES PROVIDING STORMWATER DETENTION AND SEDIMENT CONTROL.

OUTLET PROTECTION
OUTLET PROTECTION WILL BE INSTALLED AS SOON AS THE POND OUTFALL PIPE IS INSTALLED. OUTLET PROTECTION WILL PREVENT MAJOR EROSION FROM DAMAGING DOWNSTREAM CHANNELS. OUTLET PROTECTION WILL SIGNIFICANTLY REDUCE EROSION AND SEDIMENT BY REDUCING FLOW VELOCITIES.

C5 DESCRIPTION OF MAINT

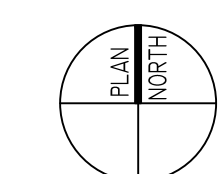


SOUTH PUTNAM HS TRACK AND FIELD RENOVATION

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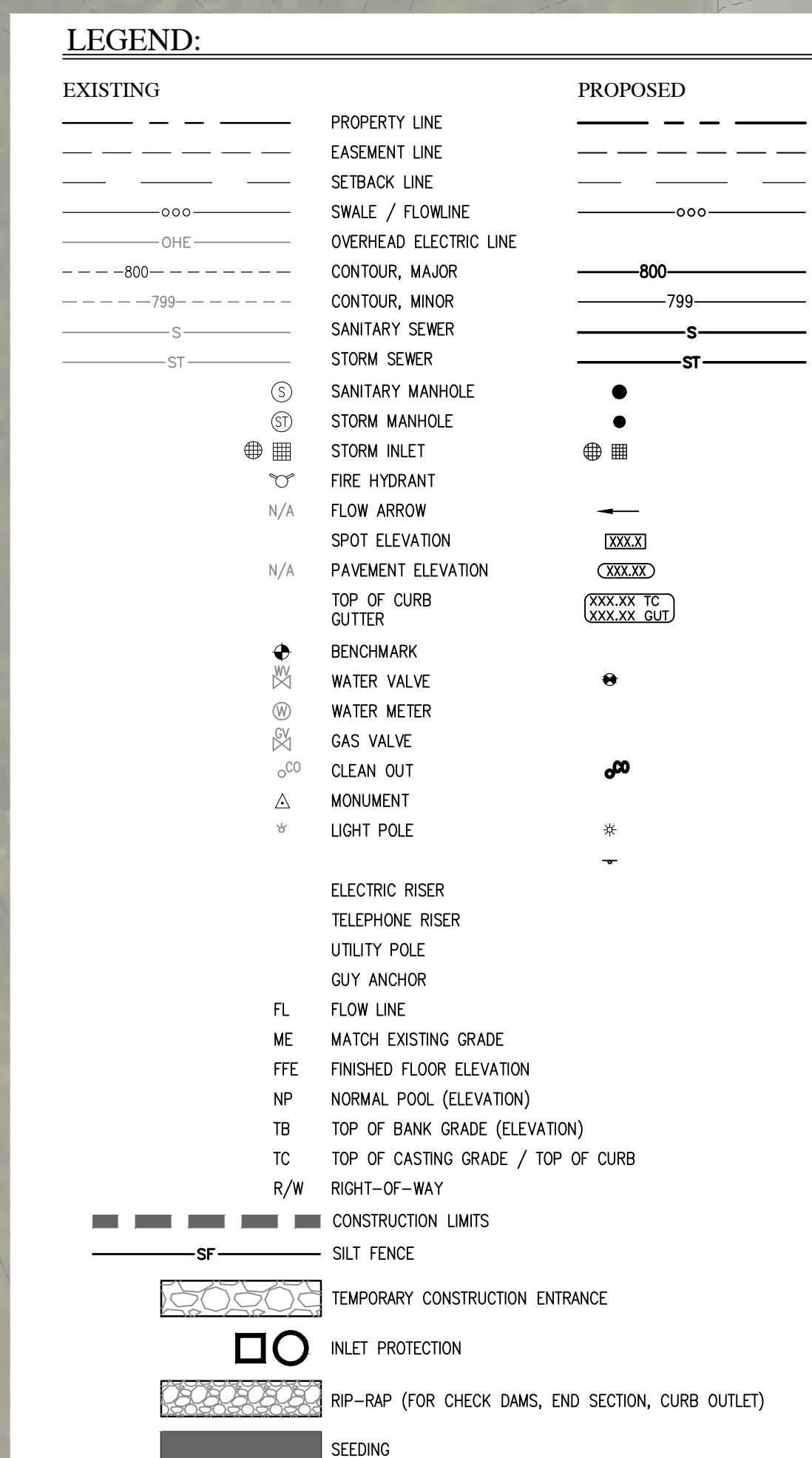
Ryan A. Robinson

REV		
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POST-STORMWATER POLLUTION PREVENTION PLAN

C1.1



1. CONSTRUCTION LIMITS.
2. SILT FENCE.
3. TEMPORARY CONSTRUCTION ENTRANCE
4. EQUIPMENT FUELING & STAGING AREA
5. INLET PROTECTION
6. PERMANENT SEEDING.

THIS SHEET TO BE USED FOR
EROSION CONTROL ONLY.





KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
Call 811 or 800-382-5544 Before you Dig!



GRAPHIC SCALE
0' 30' 60' 90'
(IN FEET)

**SOUTH PUTNAM HS
TRACK AND FIELD
RENOVATION**

1780 US-40,
GREENCASTLE,
IN 46135
(765) 653-3148

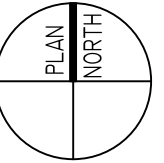
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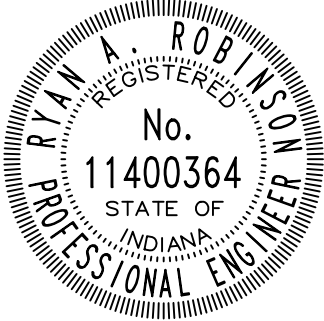


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KEY PLAN

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Ryan A. Robinson

PROJECT MANAGER: RR
DRAWN BY: BP
PROJECT NUMBER: 222152.06 (FH), 2024-005-S (HWC)
PROJECT ISSUE DATE: JANUARY 30TH, 2024

REV NO.	DESCRIPTION	DATE
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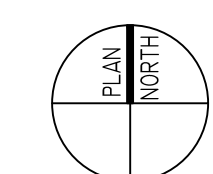
GRADING PLAN

C1.2

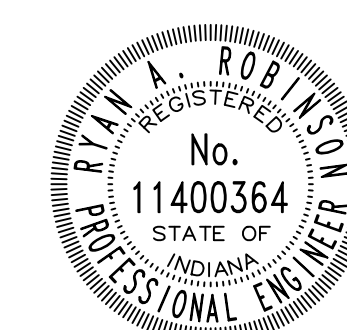
The logo for South Putnam Eagles features the words "SOUTH PUTNAM" in a small red box above the word "EAGLES" in large, stylized blue and white letters. Below the text is a red and white eagle head facing right.

HWC
ENGINEERING

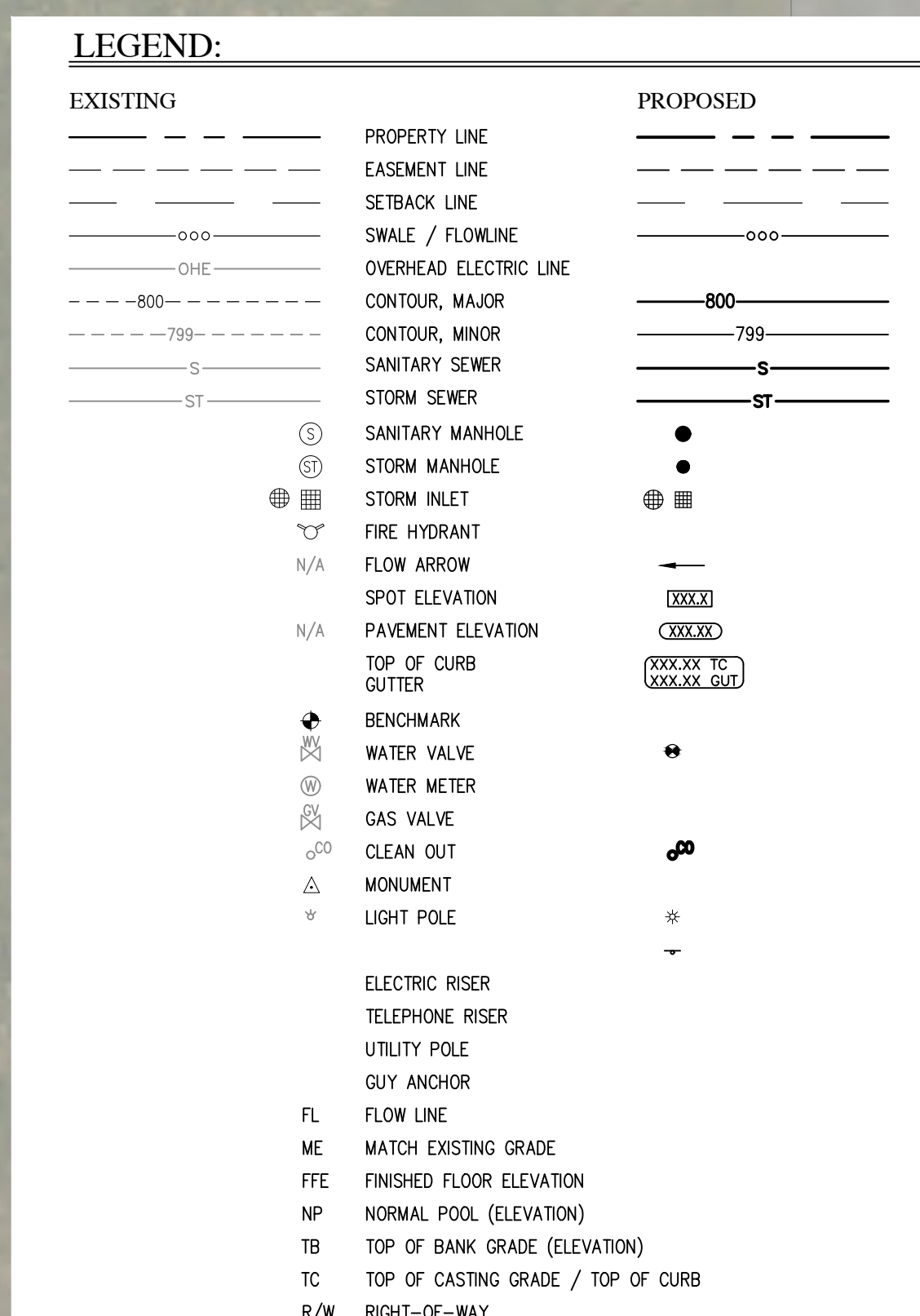
Project Site



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C1.3



E4. INSTALL NEW RECEPTACLE IN HAND HOLE PER ARCHITECTURAL AND ELECTRICAL DRAWINGS.

E5. INSTALL LIGHTED FLAG POLE PER ARCHITECTURAL AND ELECTRICAL DRAWINGS.



SITE BORING PLAN: SP FOOTBALL FIELD
SCALE: 1" = 20'-0"

BORING REQUIREMENTS

- CORE DRILL ONLY
- BORING DEPTH 2' MIN.
- MAKE SURE THAT BORING DEPTHS REACH DOWN TO SUB-BASE MATERIAL
- FILL BORE HOLE WITH FLOWABLE CONCRETE FILL TO BE FLUSH WITH EX. TRACK SURFACING. DO NOT LEAVE A TRIPPING HAZARD
- MAKE SURE TO CLEAN AREA AFTER WORK HAS BEEN PERFORMED. CONTRACTOR IS TO LEAVE SITE AS FOUND. ALL DAMAGED SURFACES AND STRUCTURES ARE TO BE RETURNED TO PRE-CONSTRUCTION CONDITIONS PRIOR TO CONTRACTOR VACATING THE SITE

PROPOSED SITE LEGEND

- Subsiding Track Renovation with New Approved Synthetic Track Surfacing System See SHT G1.00
- Alt Track Renovation with New Approved Synthetic Track Surfacing System See SHT G1.00
- B4 ASPHALT PAVING / AGG. BASE INVESTIGATION: SITE BORING LOCATIONS. BORINGS ARE TO BE OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION

LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION.



CAUTION !! THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON AERIAL PHOTOGRAPHS AND FIELD SURVEY. THESE UTILITIES ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR IS TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES SHALL BE DETERMINED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

SOUTH PUTNAM HS
TRACK AND FIELD
RENOVATION

1780 US-40,
GREENCASTLE,
IN 46135
(765) 653-3148

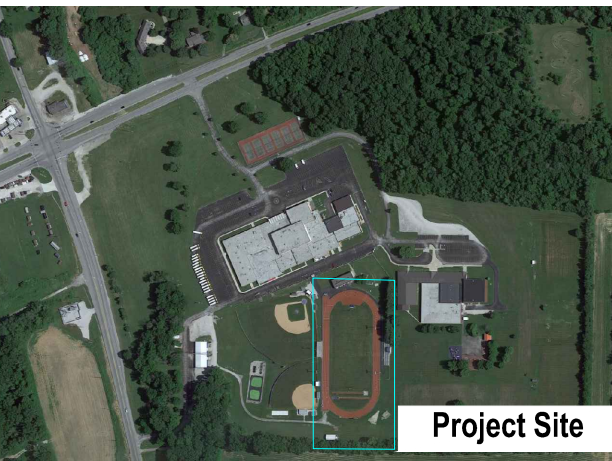
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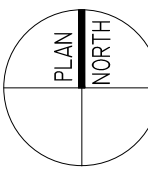
ARCHITECT

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KEY PLAN

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PROJECT MANAGER: DR
DRAWN BY: EB
PROJECT NUMBER: 222152.06
PROJECT ISSUE DATE: 01/30/2024

REV. NO.	DESCRIPTION	DATE

SITE BORING PLAN

G0.00



SITE GRAPHIC PLAN: SP FOOTBALL FIELD

SCALE: 1" = 20'-0"

PROPOSED SITE LEGEND

CONCRETE PAVING/PADS

NEW D-ZONE 6" CONC. PADS

NEW DZONE ASPHALT PAVING WITH APPROVED SYNTHETIC TRACK SURFACING SYSTEM

SUBSIDING TRACK RENOVATION WITH NEW APPROVED SYNTHETIC TRACK SURFACING SYSTEM

ALT FULL DEPTH TRACK RENOVATION WITH NEW APPROVED SYNTHETIC TRACK SURFACING SYSTEM

NEW TRACK EVENT AREAS WITH NEW APPROVED SYNTHETIC TRACK SURFACING SYSTEM

NEW SYNTHETIC TURF AREAS

FOOTBALL FIELD OUT OF BOUNDS AREA : WHITE TURF

(3) NEW WATER ACCESS POINTS

(6) NEW COMBO BOX/ELECTRICAL ACCESS POINTS SEE ELECTRICAL DRAWINGS AND PLAN NOTES TYP

PLAN LAYOUT NOTES

1

ARTIFICIAL TURF FOOTBALL FIELD WITH ACCESSORIES, SEE DETAILS #1,2 SHT G4.00 FOR FURTHER INFORMATION

2

(2 TOTAL) GOALPARKCOMBINATION FOOTBALL / SOCCER GOAL SYSTEM WITH SAFETY PADS (RED) – TO READ "EAGLES" IN (WHITE) LETTERING – BY SPORTSFIELD SPECIALTIES, OR APPROVED EQUAL. (DO NOT PROVIDE SOCCER GOAL) PROVIDE HIGH SCHOOL REGULATED FIELD GOALS WITH GOOSENECK AND REGULATION POLES. REFER TO MANUFACTURERS SPECIFICATIONS FOR FURTHER CLARIFICATION ON TYPE AND INSTALL REQUIREMENTS

3

SYNTHETIC TURF END ZONE (BLUE)– TO MATCH SCHOOL BRANDING COLOR, OWNER TO HAVE FINAL COLOR SELECTION

4

INSTALL #3500 COMBOX AS SUPPLIED BY SPORTS FIELD SPECIALTIES, OR APPROVED EQUAL ENCASED IN CONC. PAVING – IN LOCATIONS AS NOTED AND AS DIRECTED BY OWNER/ARCHITECT, PROVIDE ONE COMBOX WITHIN SYNTHETIC TURF AT TRACK FINISH LINE, RELAY POINTS AS SHOWN AND AT COACH/TEAM BOX LOCATIONS – PROVIDE LID/COVER WITH SYNTHETIC TURF – COMBOX LID/COVER FINISH GRADE IS TO BE FLUSH WITH FINISH GRADE OF SYNTHETIC TURF SURFACING SYSTEM, SEE E001 AND ES101 FOR FURTHER INFORMATION

5

FIELD TURF COLOR – ALTERNATING PANELS AS SHOWN OF – (FOREST GREEN) AND (LIME GREEN) – OWNER TO HAVE FINAL COLOR SELECTION TYP, SEE SHT G1.01 FOR GRAPHICAL REFERENCE

6

SOUTH PUTNAM HIGH SCHOOL : 'SOUTH' AND 'EAGLES' ENDZONE LETTERING OUTLINE (RED) WITH (WHITE ROCKWELL, BOLD) LETTERING O.C. WITHIN ENDZONE, SEE SHT G1.02 FOR FURTHER INFORMATION, AND REFER TO SOUTH PUTNAM'S BRANDING REQUIREMENTS FOR FURTHER DETAILS

7

NEW WATER ACCESS POINTS (2) SET AT COAH/TEAM BOX AREAS (SEE PLANS) – INSTALL PER MANUFACTURES WRITTEN RECOMMENDATIONS TYP

8

SOUTH PUTNAM CENTER FIELD 'SP EAGLE' LOGO – TO MATCH APPROVED MARKETING GRAPHIC COLORS FOR SOUTH PUTNAM HIGH SCHOOL – ACQUIRE FROM OWNER, SEE SHT G1.02 FOR FURTHER INFORMATION

9

COACH/TEAM BOX AREAS : COACH BOX (RED) , TEAM BOX (BLUE) SYNTHETIC TURF (TO MATCH SCHOOL COLOR) REFER TO SHTS G1.02 FOR FURTHER INFORMATION

10

EXISTING SCOREBOARD AND SUPPORTS TO REMAIN – SITE VERIFY AND PROTECT DURING CONSTRUCTION – SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION

11

FOOTBALL NUMERALS AND MARKINGS, SEE DETAILS #2-4 G1.01

12

RESTRICTED AREA, REFER TO SHT G1.01 FOR FURTHER INFORMATION

13

OUT OF BOUNDS AREAS : (FOREST GREEN / LIME GREEN) TURF AREAS – OWNER IS TO HAVE FINAL COLOR SELECTION PRIOR TO CONSTRUCTION TYP

14

DIRECTIONAL ARROWS OUTLINE (RED) WITH (WHITE) CENTER, REFER TO DETAILS #2-4 G1.01 FOR FURTHER INFORMATION

15

KICK OFF MARKS, SEE DETAIL #3 SHT G1.01

16

SIDELINE AND INBOUND LINES, SEE DETAIL #2 SHT G1.01

17

RELOCATED WATER ACCESS : RELOCATE AND PROVIDE A RECESSED WATER HOSE CONNECTION – PROVIDE BRASS COVER PLATE FLUSH WITH FG OF TURF SYSTEM – INSTALL PER MANUF. WRITTEN RECOMMENDATION

18

CONCRETE LONG JUMP RUNWAYS/PIT (1 TOTAL), SEE DETAILS #10, 12, 13 SHT G4.00

19

CONCRETE POLE VAULT RUNWAY AND PAD (1 TOTAL), SEE DETAIL 11 G4.00

20

HIGH JUMP 6" CONCRETE PAD – PROVIDE CONTROL JOINTS WITHIN PAD AS NEEDED, PROVIDE EXPANSION JOINT AROUND PERIMETER TYP – SEE DETAILS #5, 6, 7, 8 SHT G4.00

21

NEW 1/2" THICK POLYURETHANE SYNTHETIC TRACK SURFACING SYSTEM / ASPHALT PAVING WITHIN NORTH DZONE AND HIGH JUMP APPROACH AREA, SEE DETAIL #3 SHT G4.00

22

EXISTING GRANDSTANDS (2+/-) AND PRESS BOX TO REMAIN – PROTECT DURING CONSTRUCTION, SITE VERIFY EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION TYP

23

TRACK RENOVATION SITE WIDE (BASE BID): CLEAN AND REPAIR CRACKS WITHIN EXISTING TRACK SURFACING PRIOR TO APPLYING A APPROVED POLYURETHANE BINDER TO SUBSIDING AND DELAMINATING BASEMAT AREAS PRIOR TO APPLYING NEW POLYURETHANE TRACK SURFACE WEAR COATS AND RUBBER BROADCAST (3 COATS EACH) AND STRUCTURAL SPRAY (2 COATS) TYP. APPLY NEW TRACK COLOR SYSTEM TO ENTIRE TRACK (GRAY). PROVIDE NEW PAVEMENT MARKINGS AND EVENT MARKINGS WITHIN EXISTING TRACK TO MATCH EXISTING TRACK CONDITIONS – PROVIDE NEW REGULATION EXCHANGE ZONES WITH UPDATED MARKERS – ALL MARKINGS ARE TO ADHERE TO THE NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS (NFHS) STANDARDS & REQUIREMENTS, SITE VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION – CONTRACTOR IS TO SUBMIT TRACK LAYOUT PLAN FOR OWNER/ARCHITECT APPROVAL PRIOR TO THE START OF CONSTRUCTION TYP. SEE DETAILS #1, 3, 9 SHT G4.00

24

(2) EXISTING TIME CLOCKS, TO BE RE-INSTALLED PER MANUFACTURERS WRITTEN RECOMMENDATIONS/STANDARDS – PROVIDE (2) NEW TIME CLOCK SUPPORT POST (BLACK) PVC COATED AND FOOTINGS – INSTALL FOOTINGS PER LOCAL AND STATE REGULATIONS – SEE ELECTRICAL DRAWING ES101 FOR FURTHER INFORMATION, PROVIDE (2) NEW PROTECTIVE PADS (RED) TO READ "EAGLES" IN (WHITE) LETTERING – BY SPORTSFIELD SPECIALTIES

25

TRACK RENOVATION: SAW CUT AND REMOVE SUBSIDING AREA NOTED IN IT'S ENTIRETY. SITE VERIFY LOCATION PRIOR TO CONSTRUCTION AND REPAIR ALL DISCREPANCIES TO CM AND ARCHITECT – ADD SUPPLEMENTAL AGGREGATE BASE COURSE TO EX. BASE AND COMPACT TO REQUIRED TOLERANCES – PROTECT DURING CONSTRUCTION – PROVIDE TRACK MANUFACTURE AND PROJECT MANUAL PRIOR TO APPLYING NEW BASE COURSE AND SURFACE COURSE ASPHALT, ALLOW ASPHALT PAVING TO CURE 30 DAYS PRIOR TO APPLYING NEW APPROVED 3" POLYURETHANE TRACK SYSTEM, COLOR (GRAY) AND PAVEMENT MARKINGS PER NFHS STANDARDS

26

EXISTING PAVING AND FENCING TO REMAIN – TYP

27

ALL EXISTING LAWN SPACES TO REMAIN – PROTECT DURING CONSTRUCTION TYP

28

PERIMETER CURBING – 6"x10" CONCRETE CURBING, SEE DETAIL 1 SHT G4.00

29

EXISTING ELECTRICAL LINES TO REMAIN – SEE SHT G01.00 AND ELECTRICAL DRAWINGS FOR FURTHER INFORMATION

30

NEW NYLOPLAST STRUCTURES (5) AND PERIMETER 12" PERF. DRAIN MAINLINE – SEE SHT G2.00 FOR FURTHER INFORMATION, PROVIDE TURF CAP OVER STRUCTURE LIDS TYP.

31

TRACK RADIUS POINTS : 6" WIDE BY 10" DEEP CONCRETE CURBING LOCATED AT TRACK "D" ZONES – PROVIDE CONTROL JOINTS EVERY 10' AND EXPANSION JOINTS EVERY 40' UNLESS NOTED OTHERWISE – CURB TO BE INSTALLED PER TURF MANUFACTURES WRITTEN RECOMMENDATIONS, –EXISTING TRACK PAVING SURFACING TO REMAIN – CONTRACTOR IS TO REPAIR ALL DISTURBED AREAS TO REMAIN TYP, SEE DETAIL #1 G4.00 FOR FURTHER INFORMATION

32

'SOUTH PUTNAM EAGLES' LETTERING (ROCKWELL) O.C. WITHIN COACH/TEAM BOX AREAS (2) – SEE SHT G1.02 FOR FURTHER INFORMATION

33

SAWCUT AND REMOVE 8"+/- OR AS NEEDED OF EXISTING ASPHALT PAVING AND TRACK SURFACING FOR PLACEMENT OF NEW CONC. CURB, , SEE CIVIL SHT CO.1 FOR DEMOLITION PLAN, AT EX. NORTH D-ZONE – SAW CUT AND REMOVE ENTIRE DZONE PRIOR TO CONSTRUCTION – CONTRACTOR IS TO PROVIDE NEW POLYURETHANE SYNTHETIC TRACK SURFACING AND PAINTED (WHITE) LANE LINE WITHIN INSIDE EDGE OF LANE ONE – PROVIDE TRACK SURFACING ACROSS 6" CURB @ RADIUS POINTS – INSTALL PER MANUF. WRITTEN RECOMMENDATION

34

PROVIDE USA BLUE 30 YRD LINE INDICATORS – INSTALL PER MANUF. RECOMMENDATIONS

35

NEW FLAGPOLE AND UP LIGHTING: INSTALL PER MANUF. WRITTEN RECOMMENDATION FOR INSTALLATION WITHIN SYNTHETIC TURF FIELD CONDITION – SEE DETAILS #1 SHT G1.01 AND ES101 ELECTRICAL DRAWINGS FOR FURTHER INFORMATION

36

GENERAL SITE NOTE FOR PROJECT SITE : EXISTING SANITARY SYSTEM LINES AND MANHOLES IDENTIFIED OR NOT TO REMAIN TYP – PROTECT DURING CONSTRUCTION

37

ALT BID: SOUTH PUTNAM EAGLE HEAD ENLARGED LOGO – MATCH COLORS SHOWN TO SP BRANDING GUIDELINES, SEE SHT G1.01 FOR FURTHER INFORMATION

38

NEW 6" CONC. HIGH JUMP PAD, SEE DETAILS 5-8 SHT G4.00

39

ALT BID: NEW 6" CONC. SPECTATOR PAD, SEE DETAILS 5-8 SHT G4.00

40

ALT. FULL DEPTH TRACK RENOVATION: SAW CUT AND REMOVE BOTH STRAIGHTAWAY SECTIONS NOTED IN THEIR ENTIRETY – SITE VERIFY LOCATION PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO CM AND ARCHITECT – ADD 3" DEPTH OF SUPPLEMENTAL AGGREGATE BASE COURSE TO EX. BASE AND COMPACT TO REQUIRED TOLERANCES SPECIFIED BY TRACK SURFACING MANUFACTURE AND PROJECT MANUAL PRIOR TO APPLYING NEW BASE COURSE AND SURFACE COURSE ASPHALT. ALLOW ASPHALT PAVING TO CURE 30 DAYS PRIOR TO APPLYING NEW APPROVED 3" POLYURETHANE TRACK SYSTEM, TRACK SYSTEM COLOR (GRAY) WITH (WHITE) PAVEMENT MARKINGS PER NFHS STANDARDS

GENERAL NOTES

1

All contractors but not limited to the excavating contractor or contractors must take particular care when excavating in and around existing utility lines and equipment. Actual field locations of all the existing utilities are the contractors responsibility and must be located either by the representative of the utility company or by a private underground utility locating company prior to the start of excavating. Verify minimum cover requirements by the utility contractor or contractors or agencies whenever utility companies or agencies whenever has jurisdiction so not to cause damage.

2

All construction methods and materials must conform to current standards and specifications.

3

Existing pavement, sidewalks curbs driveways, electrical transformer, ditches, drainage pipes and structures, fences, lawns, trees, bushes, mailboxes, signs, power poles etc., to remain shall be protected from damage by the contractor. Any damage during construction shall be restored, reconstructed or replaced by the contractor at his/her expense. All damages shall be restored or replaced to at least their original condition.

4

All areas where the existing pavement or pavements are damaged during construction from heavy traffic or equipment, fuel oil, oil, gasoline, etc., by the Contractor, Subcontractor, or Suppliers, shall be reconstructed to it's original condition.

5

The contractor shall be responsible to provide at his expense all automobile and pedestrian traffic control devices required by Federal, State, County, City or Local Removal of the existing improvements are as noted on the plans. The materials removed from the site shall be disposed of in a proper and legal manner per Federal, State, County, City, and or Local laws and ordinance.

6

It is the responsibility of the contractor or contractors to obtain all Federal, State, County, City, and Local permits for any and all work required.

7

The contractor or contractors are responsible to pay for

8

It is the contractor's responsibility to notify all the utility companies and departments 72 hours before construction is to start to verify any utilities that may be present on site. All verifications, locations, size and depths shall be made by the appropriate utility companies or departments. When excavating around or over existing utilities, the contractor must notify the utility company so a representative of the utility can be present during the excavation to instruct and observe during the excavation.

9

It is the responsibility of the contractor to inspect each day and remove all mud, dirt, gravel and loose materials tracked, dumped, spilled or wind blown from this site onto other sites, right of ways, public or private streets or roads, driveways, yards or sidewalks. The contractor must clean or pick up daily if necessary. The contractor shall reduce the airborne dust during the entire construction schedule. Water may be used for dust control.

10

The utilities indicated on these plans may not be a complete inventory of all the existing utilities present on and around this site. The locations and sizes of these utilities are approximate. This information was gathered or supplied from others and used by the architect and or engineer and may not be actual. The architect and or engineer may not be held liable for any incorrect or misleading utility information indicated, implied or not indicated on these plans.

11

The contractor shall verify all locations , dimensions and elevations in the field before the start of construction. The contractor shall be responsible for all field dimensions and elevations during the entire construction schedule. If any discrepancies are found on the plans from actual field conditions the contractor shall contact the A/E immediately. If any discrepancies are found from actual field conditions the contractor shall contact the A/E immediately for instructions.

12

All dimensions of pavements are to edge of finish pavement or face of curb unless otherwise noted.

13

ALL ELECTRICAL BOXES, PEDESTALS, AND LIGHT POLE BASES ARE TO BE LOCATED OUT OF ALL STORM DRAINAGEWAYS AND OR SWALES TYP

LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION.

Know what's below. Call before you dig.

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES INDICATED ON THESE PLANS ARE APPROXIMATE AND NOT GUARANTEED. EXISTING UTILITIES ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

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SOUTH PUTNAM HS TRACK AND FIELD RENOVATION

1780 US-40, GREENCASTLE, IN 46135 (765) 653-3148

SOUTH PUTNAM COMMUNITY SCHOOL CORPORATION

ARCHITECT

317-848-0966 WWW.FHAL.COM 350 E NEW YORK ST # 300, INDIANAPOLIS, IN. 46204

Project Site

PLAN NORTH

KEY PLAN

100% Construction Documents

PROJECT MANAGER OR DRAWN BY: EB PROJECT NUMBER: 222152.06 PROJECT ISSUE DATE: 01/30/24

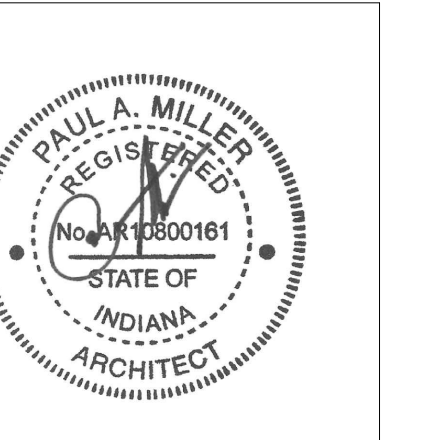
REV.	DESCRIPTION	DATE

SITE LAYOUT / GRAPHIC PLAN

G1.00

SITE DIMENSIONING PLAN

Project Site

[illegible]

CAUTION !!

ALL OF ALL EXISTING UNDERGROUND UTILITIES ARE PLANNED BASED UPON ABOVE GROUND RECORDS, BUT NOT LIMITED TO, MANHOLES, CULDS, AND MARKS MADE UPON THE GROUND BY THE SPECIFICITY IN NATURE. THERE MAY BE EXISTING UNDERGROUND UTILITIES FOR WHICH NO ABOVE GROUND EVIDENCE OR FOR WHICH GROUND EVIDENCE WAS OBSERVED. THE PLANS OF EXISTING UNDERGROUND UTILITIES WERE BY CONTRACTOR PRIOR TO ANY AND



4

INBOUND LINE
TYPE
EVERY 5 YARD
LINE
(EXCEPT GOAL
LINES)

53'-4"

TUFTED

INLAID

NOTES: MODEL ECXA90

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info
REFERENCE NUMBER 1527-218.
5. PROVIDE ALL STANDARD ACCESSORIES (320345) - 60" HIGH
REFERENCE NUMBER 1527-218.

SOUTH PUTNAM HS TRACK AND FIELD RENOVATION

1780 US-40,
GREENCASTLE,
IN 46135
(765) 653-3148

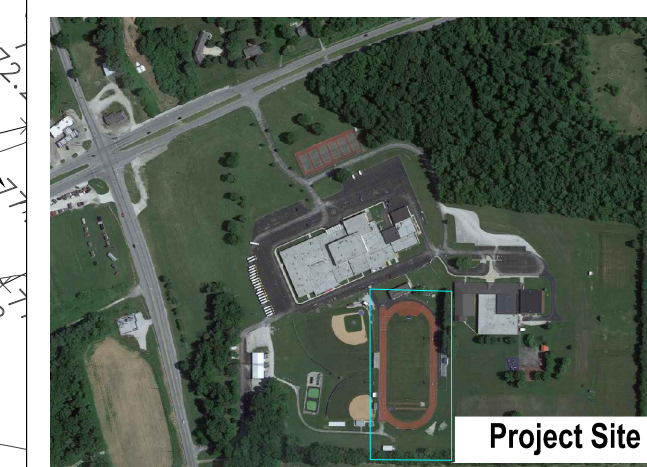
SOUTH PUTNAM COMMUNITY SCHOOL CORPORATION



ARCHITECT

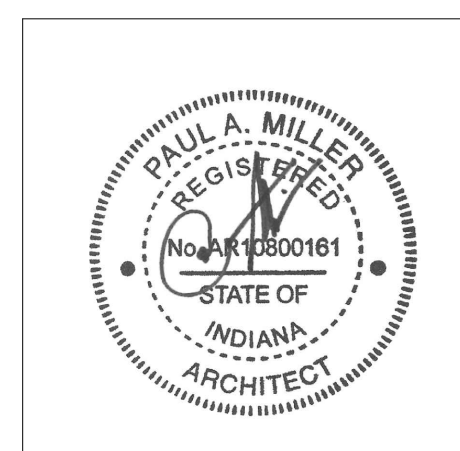


317-848-0966 WWW.FHAL.COM
350 E NEW YORK ST # 300, INDIANAPOLIS, IN. 46204



KEY PLAN

100% Construction Documents

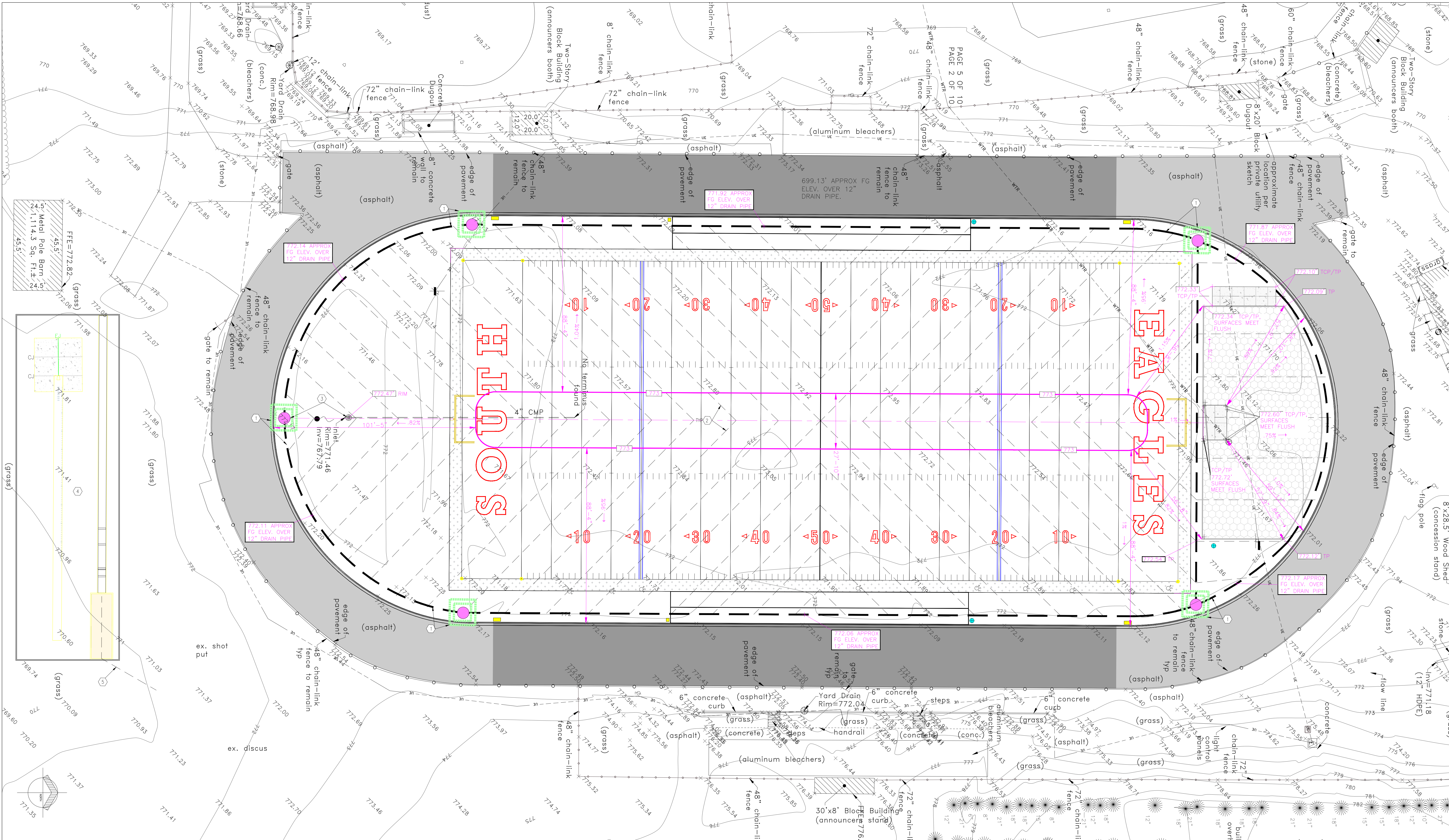


PROJECT MANAGER: DR
DRAWN BY: EB
PROJECT NUMBER: 222152.06
PROJECT ISSUE DATE: 01/30/24

REV. NO.	DESCRIPTION	DATE

SITE GRADING AND DRAINAGE PLAN

G2.00



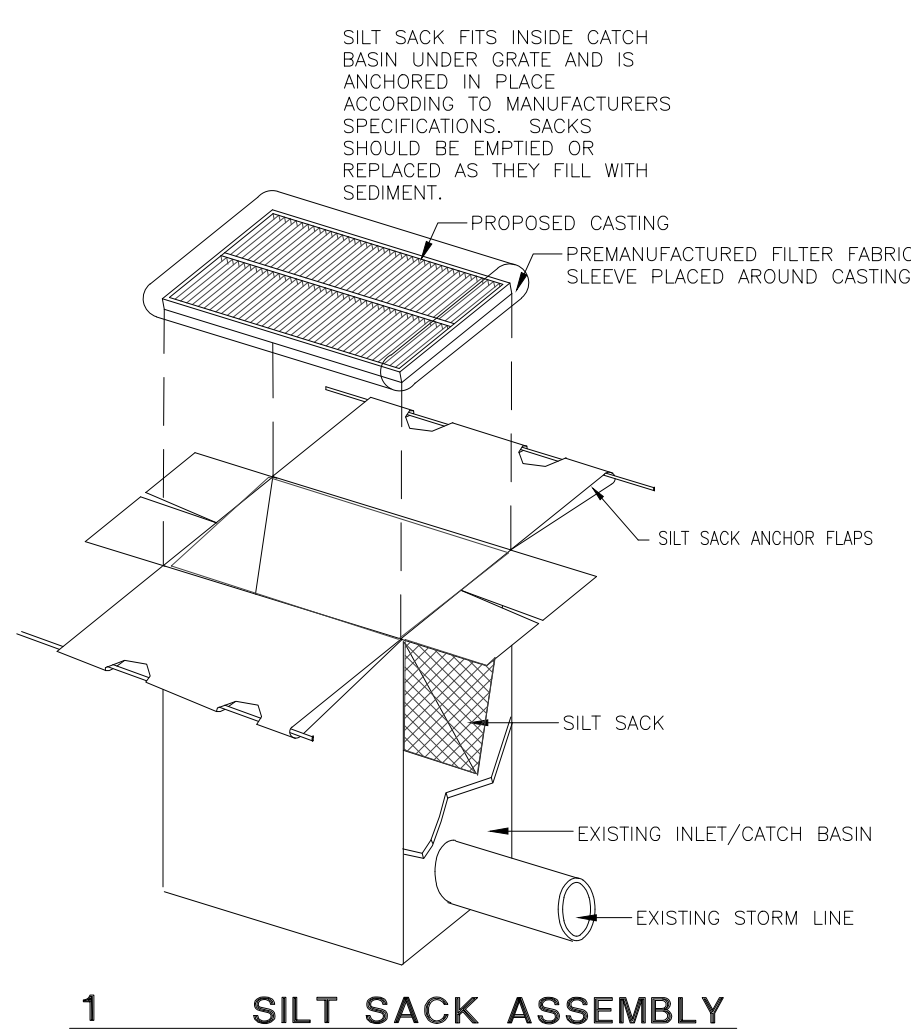
SITE GRADING/DRAIANGE PLAN

SCALE: 1" = 20'-0"

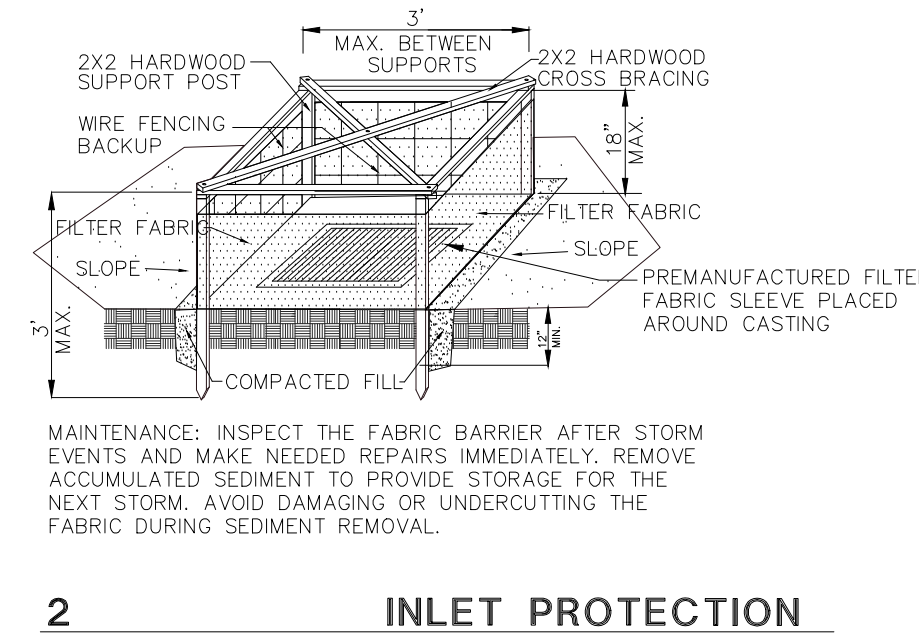
SITE GRADING LEGEND

TCP-- TOP OF CONCRETE PAVEMENT.
TC-- TOP OF CONCRETE CURB.
TP-- TOP OF PAVING
FG-- FINISH GRADE
WTR-- EX. WATER LINE -- SEE SHT G1.00 AND C1.3 FOR FURTHER INFORMATION
[772.54] = NEW SPOT GRADE ELEVATIONS

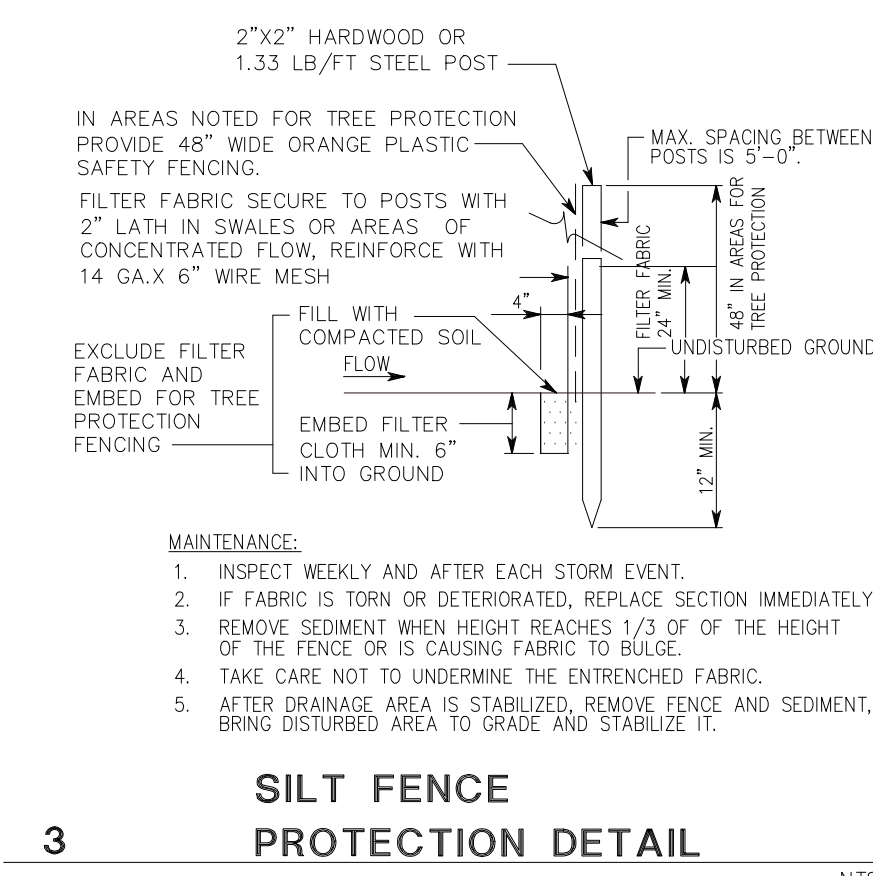
NOTE: CONTRACTOR TO VERIFY ALL EXISTING GRADES AND ADJUST AS REQUIRED TO COMPLETE THE WORK AS OUTLINED AND PER MANUFACTURERS RECOMMENDATIONS AND ALL LOCAL ORDINANCES.
NOTE: CONTRACTOR TO TAKE EXTREME CAUTION WHEN WORKING AROUND OR ON THE EXISTING TRACK SURFACE TO NOT DAMAGE EXISTING TRACK SURFACING. CONTRACTOR IS TO TAKE EXTREME CAUTION WHEN EXCAVATING AROUND EX. ELECTRICAL AND WATER LINES NOTED TO REMAIN AND OR BE RELOCATED -- TAKE EXTRA CAUTION NOT TO SEVER LINES. COORDINATE ELECTRICAL AND PLUMBING SCOPE OF WORK WITH ENGINEERS PRIOR TO THE START OF CONSTRUCTION



1 SILT SACK ASSEMBLY
NO SCALE



2 INLET PROTECTION
NTS



3 SILT FENCE PROTECTION DETAIL
NTS

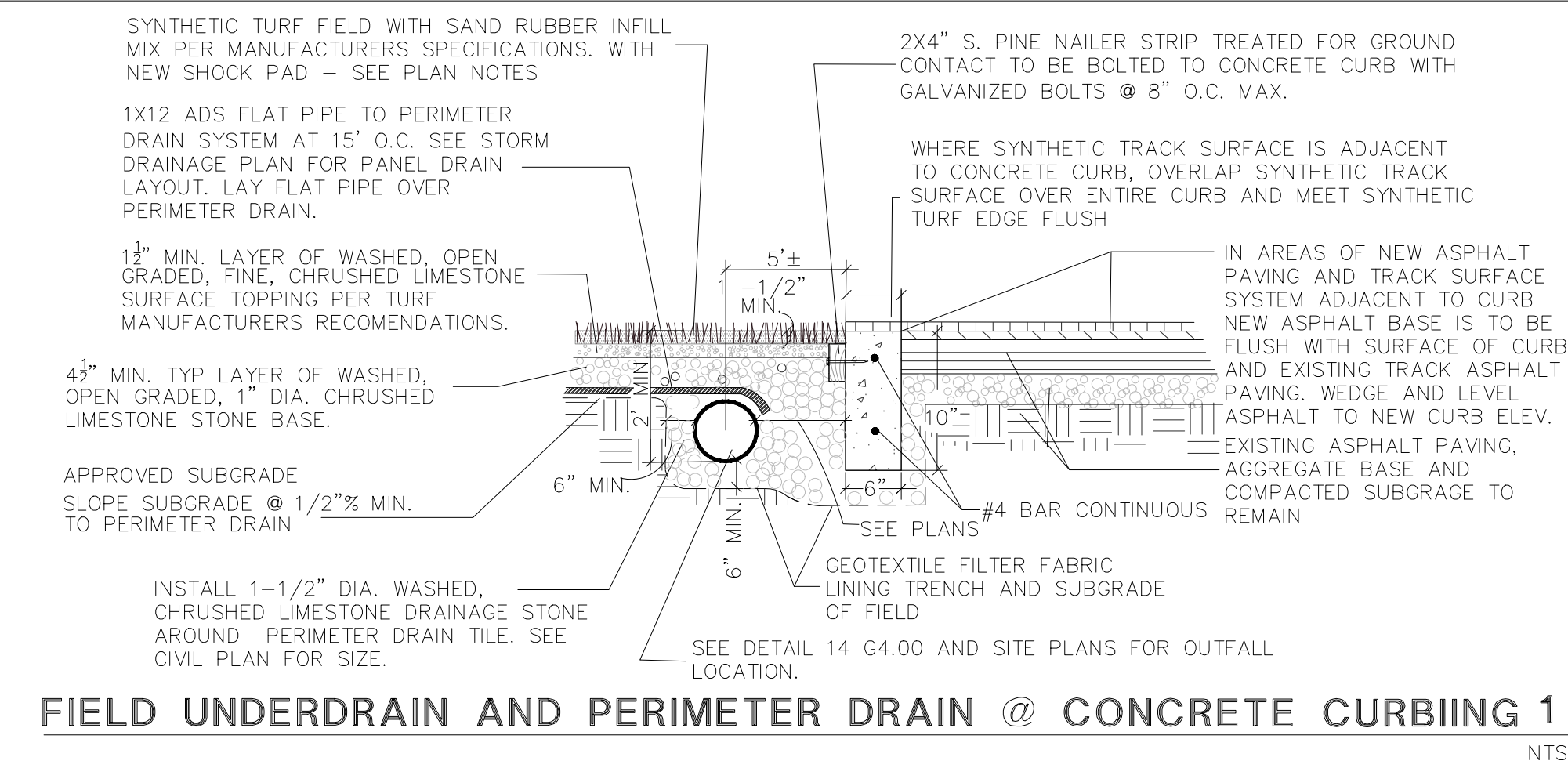
PLAN NOTES

- NEW NYLOPLAST STRUCTURES / 12" UNDERDRAIN MAINLINE. SLOPE MAIN DRAINLINE @ .75% SLOPE MIN. INSTALL FILTER FABRIC AROUND ALL NYLOPLAST DRAINAGE STRUCTURES IN DISTURBED FIELD AREAS TYPICAL. PROVIDE CROSS BRACING ACROSS TOPS AND SIDES FOR ADDITIONAL SUPPORT. INSTALL SILT SACK INLET PROTECTION AND ESTABLISH PERIMETER SILT FENCING PER CIVIL DRAWINGS C0.2, C0.3, C1.0, C1.1, AND DETAILS 1, 2, 3 G2.00
- UNDERDRAIN FLATPIPE TO BE INSTALLED OVER FILTER FABRIC ALONG SUBGRADE AT 15' - 20' O.C. - TIE INTO 12" PERF. MAIN DRAINLINE. SLOPE SUBGRADE AT 1%. SEE DETAILS # 1-3, 14 SHT G4.00 FOR MORE INFORMATION
- INSTALL NYLOPLAST DRAINAGE STRUCTURES IN ALIGNMENT WITH UNDERDRAIN MAINLINE. WHERE EX. 4"CMP DRAINLINE FROM OUTSIDE TRACK ENTERS THE FIELD CONNECT TO NYLOPLAST STRUCTURE AND 12" PERFORATED MAINLINE. CONTRACTOR IS TO INVESTIGATE EXISTING STORM SYSTEM PRIOR TO CONSTRUCTION -- IN ORDER TO UNDERSTAND-- EXISTING OUTFALL AND EXISTING PIPES INVERT ELEVATIONS. CONTRACTOR IS TO ESTABLISH FINAL NYLOPLAST RIM ELEVATIONS AND 12" PERF. MAIN INVERT ELEVATIONS ON SITE PER TURF MANUF. WRITTEN RECOMMENDATIONS. PROVIDE SYNTHETIC TURF CAP OVER STRUCTURE LID -- PER TURF MANUF. WRITTEN RECOMMENDATION -- CAP IS TO BE FLUSH WITH TURF FG AND SHOULD NOT BE EASILY SEEN AND OR TRIPPED UPON.
- LONG JUMP AND POLE VAULT EVENTS, SEE C1.2 FOR GRADING PLAN
- LONG JUMP UNDERDRAIN FLATPIPE TO BE INSTALLED OVER FILTER FABRIC ALONG SUBGRADE O.C. OF PIT -- TIE INTO NEAREST STORM MANHOLE AND OR FIELD YARD DRAIN. SLOPE SUBGRADE AT 1%. SEE DETAIL #10 SHT G4.00 FOR MORE INFORMATION AND CIVIL DRAWINGS C1.2-C1.3

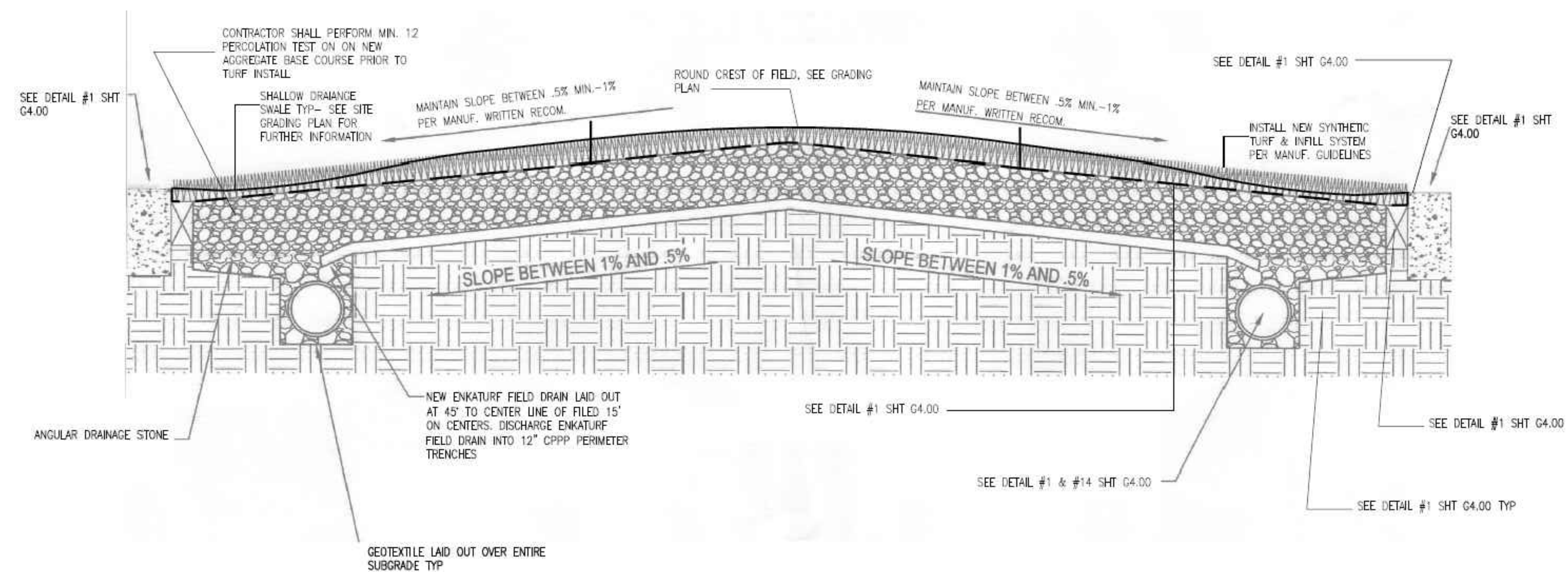
LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION.



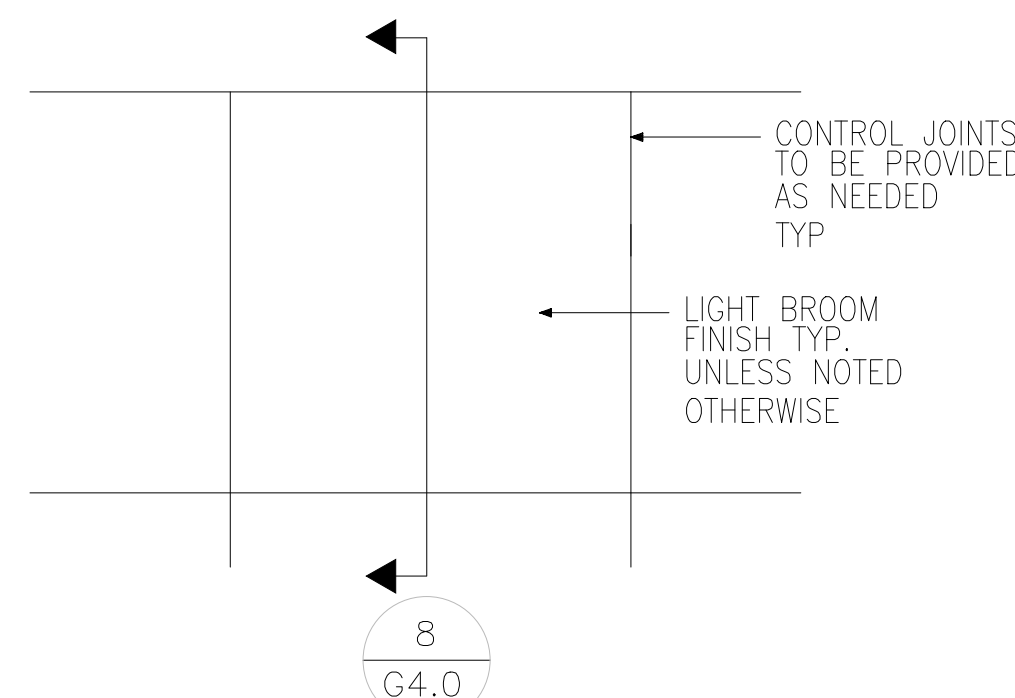
CAUTION !!
THE LOCATIONS OF ALL EXISTING UNDERDRAINS UTILITIES DEPEND ON THE EX. MANHOLE AND/OR OTHER EXISTING EVIDENCE INCLUDING, BUT NOT LIMITED TO, MANHOLE MARKERS, UTILITY LOCATIONS, AND/OR OTHER EXISTING EVIDENCE. CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL EXISTING UNDERDRAINS UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR UNDERDRAINS DURING CONSTRUCTION.



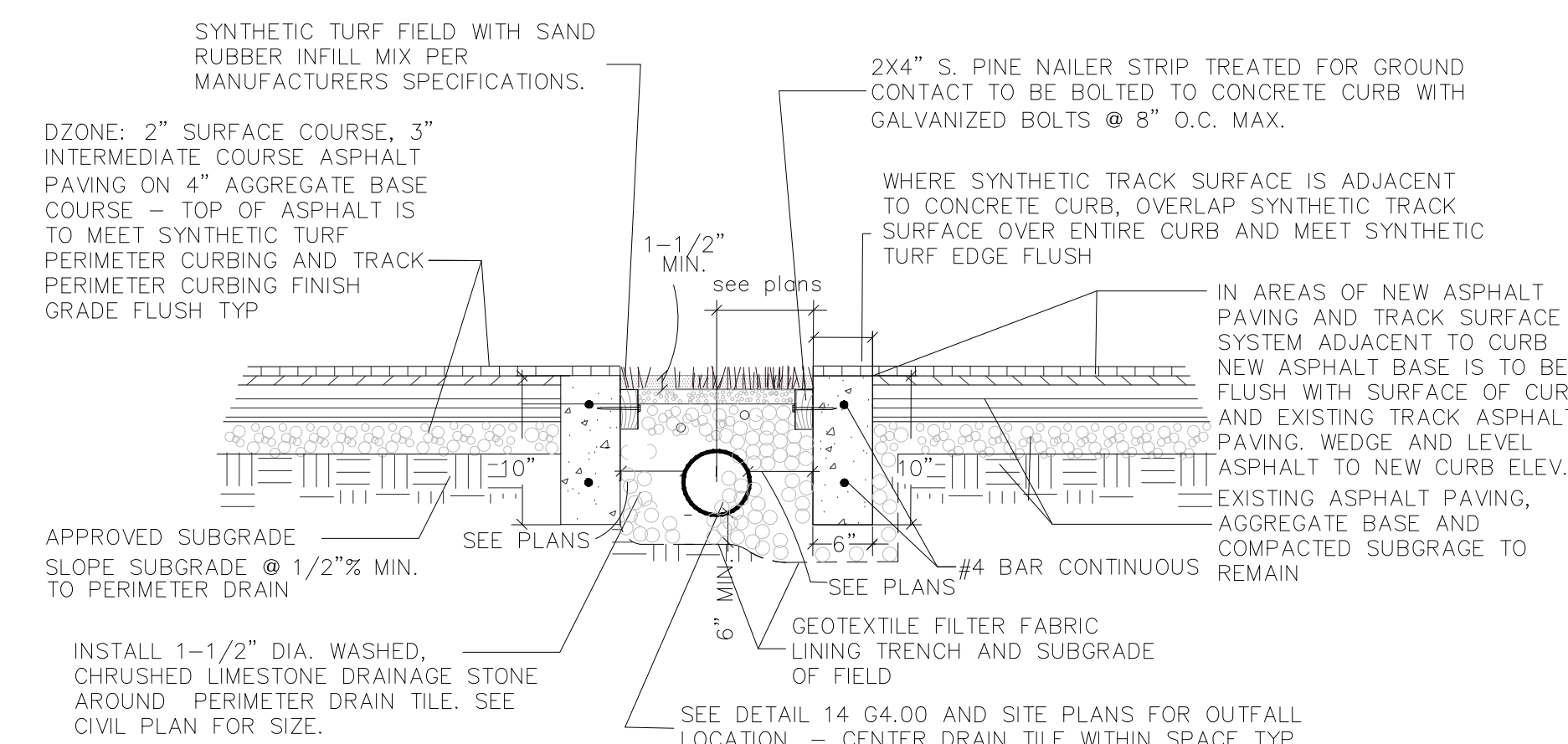
FIELD UNDERDRAIN AND PERIMETER DRAIN @ CONCRETE CURBING 1



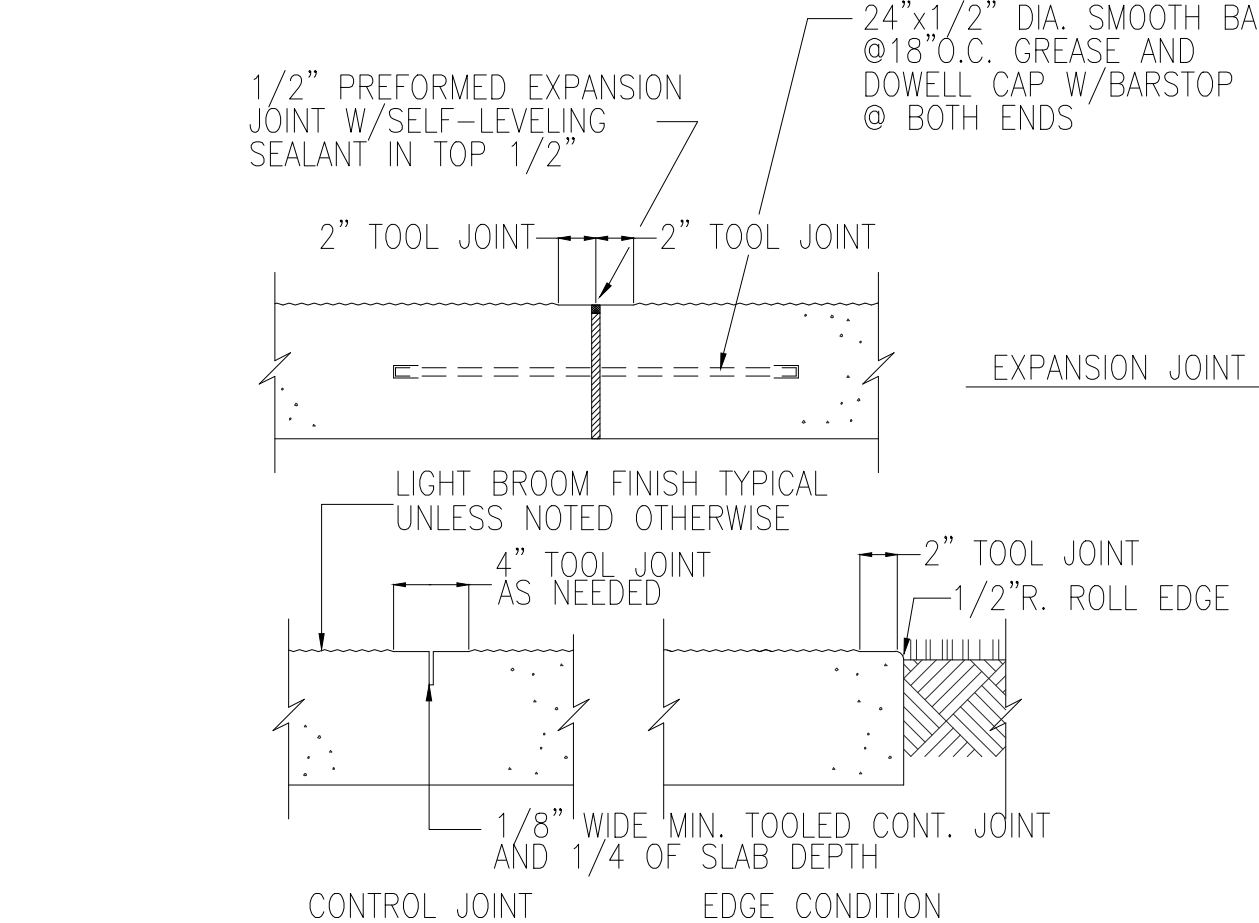
SECTION THROUGH SYNTHETIC FIELD



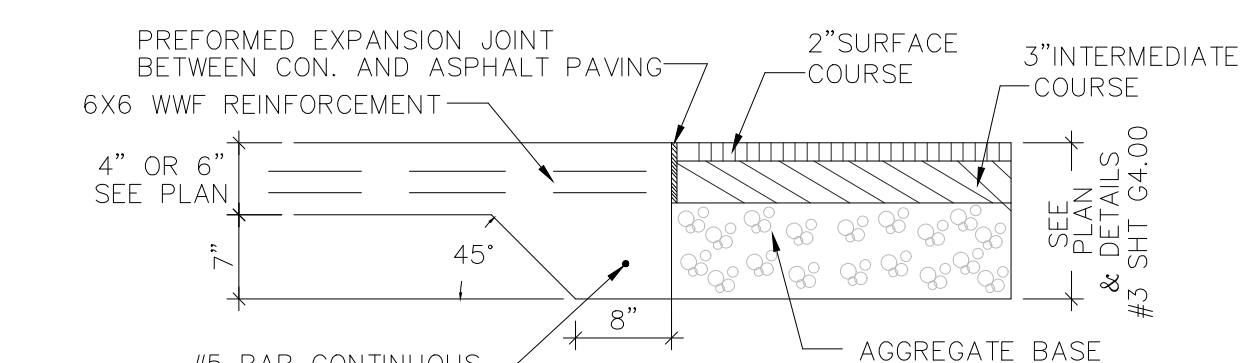
7 CONCRETE SURFACE DETAIL



NORTH DZONE EDGE CONDITION @ NEW TRACK EDGE



8 TYPICAL CONCRETE JOINT DETAILS



TOOLED CONTROL JTS.
1/8" WIDE, MIN.
1-1/8" DEPTHT AS NEEDED

APPLIED ANTI SPALLING COMPOUND

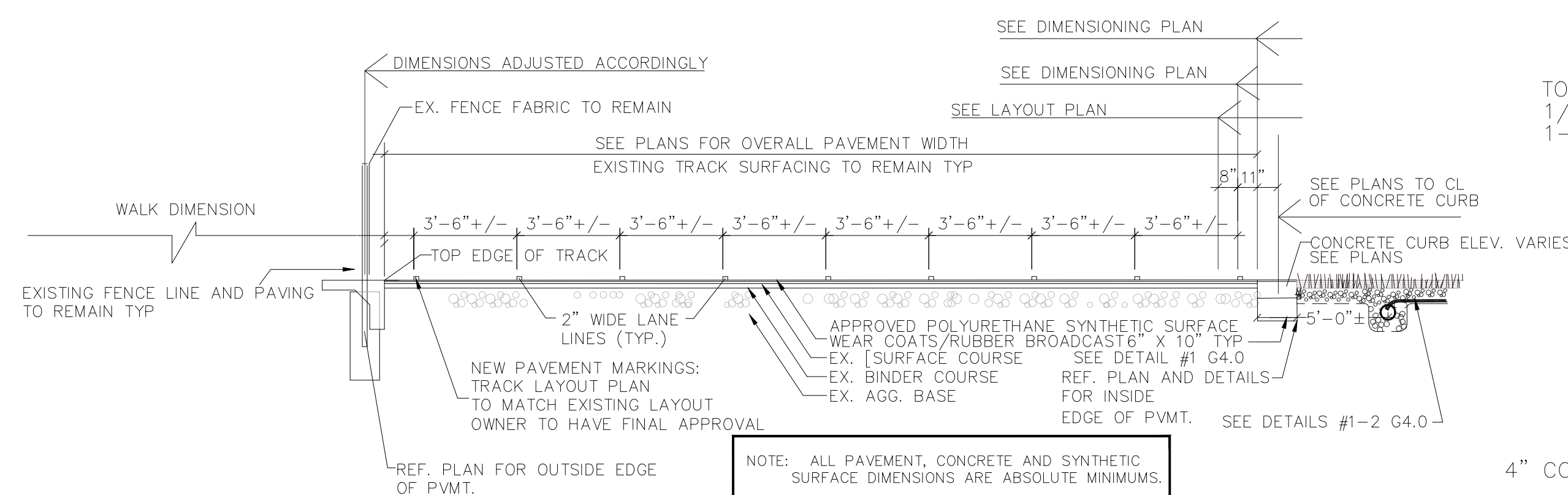
EDGE CONDITION AS APPLICABLE

NOTE: PROVIDE EXPANSION JTS. ALONG ASPHALT PAVING EDGE TYPE SEE PLANS FOR ANY VARIATIONS EITHER INDICATED OR IMPLIED.

" COMPACTED AGGREGATE BASE

6X6 6/6 W.W.F. W/BROOM FINISH.
SEE DETAILS

7	8
G4.0	G4.0



6" CONCRETE SLAB DETAIL

[illegible]

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1/26/2024 4:25:32 PM

LIGHTING CONTROLS

SYMBOL	MOUNTING	DIMMING TYPE	OCCUPANCY SENSOR TYPE	SWITCH/BUTTONS	CONTROL DESCRIPTION
	WALL	0-10V	N/A	(1)	- (1) MANUAL SWITCH ON (TO SELECTED LIGHT LEVEL) OFF. - (1) MANUAL LIGHT LEVEL WITH SLIDER.
	WALL	0-10V	DUAL TECH.	(1)	- (1) MANUAL SWITCH ON (TO SELECTED LIGHT LEVEL) OFF. - (1) MANUAL LIGHT LEVEL WITH SLIDER. - MANUAL ON / AUTO OFF.
	WALL	LINE VOLT.	N/A	(1)	- (1) MANUAL SWITCH ON (TO SELECTED LIGHT LEVEL) OFF. - (1) MANUAL LIGHT LEVEL WITH SLIDER.
	WALL	DMX	N/A	MULTI.	- DMX COLOR CHANGING CONTROLLER. - NICOLAUDIE SWITCH-CLIA.
	WALL	N/A	DUAL TECH.	(1)	- (1) MANUAL SWITCH ON/OFF. - MANUAL ON / AUTO OFF.
	WALL	N/A	DUAL TECH.	(2)	- (2) MANUAL SWITCH ON/OFF. - MANUAL ON / AUTO OFF.
	CEILING	N/A	DUAL TECH.	N/A	- AUTO ON / AUTO-OFF - TWO RELAYS IN POWER PACK - DISTRIBUTION COVERAGE AS REQUIRED FOR SPACE SIZE.
	CEILING	N/A	PIR	N/A	- MANUAL OR AUTO-ON / AUTO-OFF - HIGHBAY COVERAGE - TWO RELAYS IN POWER PACK - DISTRIBUTION COVERAGE AS REQUIRED FOR SPACE SIZE.
	WALL				SINGLE POLE SWITCH
	WALL				THREE-WAY SWITCH
	WALL				FOUR-WAY SWITCH
	WALL				SINGLE POLE SWITCH W/ PILOT LIGHT
	WALL				THREE-WAY SWITCH WITH PILOT LIGHT
	WALL				KEY OPERATED SINGLE POLE SWITCH
	WALL				KEY OPERATED THREE-WAY SWITCH

FIRE ALARM

SUBSCRIPTS FOR FIRE ALARM SYSTEM DEVICES INDICATE THE FOLLOWING. U.O.N. S - SURFACE MOUNTED WP - WEATHERPROOF		
WALL	CEILING	DESCRIPTION
		MANUAL PULL STATION: DOUBLE ACTION
		HORN
		HORN/STROBE
		VISUAL STROBE
		SPEAKER
		SPEAKER/STROBE
		BELL
		BELL WITH INDICATOR
		SMOKE DETECTOR: PHOTOELECTRIC
		HEAT DETECTOR
		DUCT DETECTOR - SUPPLY DUCT
		DUCT DETECTOR - RETURN DUCT
		DOOR HOLD RELEASE
		CONTROL PANEL
		ANNUNCIATOR PANEL
		NOTIFICATION APPLIANCE CONTROL PANEL
		ADDRESSABLE MODULE
		CELLULAR DIALER
		FLOW SWITCH
		KNOX BOX
		PRESSURE SWITCH
		POST VALVE INDICATOR
		REMOTE DIALER
		REMOTE INDICATOR
		REMOTE TEST
		TAMPER SWITCH

LIGHTING

SUBSCRIPTS FOR LIGHTING FIXTURES INDICATE THE FOLLOWING. U.O.N. NL - NIGHT LIGHT, PANEL SWITCHED, U.O.N.	
	LIGHTING FIXTURE - TYPE AS INDICATED
	WALL MOUNTED FIXTURE - TYPE AS INDICATED
	LIGHTING FIXTURE - TYPE AS INDICATED
	POLE MOUNTED LIGHTING FIXTURE - TYPE AS INDICATED
	TRACK LIGHTING FIXTURE
	EMERGENCY BATTERY WALL PACK LIGHTING FIXTURE - TYPE AS INDICATED
	SHADING INDICATES EMERGENCY FIXTURE CONNECTED TO BATTERY INVERTER OR GENERATOR. CONNECT TO UNSWITCHED SOURCE IN ADDITION TO SWITCHING INDICATED
	EXIT LIGHT - WALL/CEILING MOUNTED - DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES ILLUMINATED FACE. CONNECT TO UNSWITCHED BRANCH CIRCUIT INDICATED

LINE SYMBOLS

	LIGHT/SCREENED SOLID LINES INDICATE EXISTING TO REMAIN
	HEAVY DASHED LINES INDICATE EXISTING TO BE REMOVED
	HEAVY CONTINUOUS LINES INDICATE NEW WORK

NOTE:
NOT ALL INFORMATION ON THIS SHEET
WILL BE USED IN THIS PROJECT

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERES FRAME (BREAKER RATING)
AFB	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ASD	ADJUSTABLE SPEED DRIVE
AT	AMPERES TRIP (BREAKER SETTING)
ATS	AUTOMATIC TRANSFER SETTING
AUX	AUXILIARY
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DISC	DISCONNECT
DL	DOUBLE LUGS
DP	POWER DISTRIBUTION PANEL
DWG	DRAWING
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
ELEC	ELECTRIC/ELECTICAL
EMEMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
F	FUSE
FA	FIRE ALARM
FB	FLOOR BOX
FDR	FEEDER
FL	FLOOR
FLEX	FLEXIBLE
FTL	FEED THRU LUGS
G	GROUND
GRND	GROUND
HP	HORSEPOWER
HOA	HAND-OFF-AUTOMATIC
JB	JUNCTION BOX
KV	KILOVOLTS
KVA	KILOVOLTS-AMPERES
KVAR	KILOVOLTS-AMPERES-REACTIVE
KW	KILOWATTS
KWH	KILOWATT-HOURS
LA	LIGHTNING ARRESTOR
LSIG	LONG, SHORT, INSTANTANEOUS, GROUND FAULT TRIP SETTINGS
LP	LIGHTING PANELBOARD
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFS	MAIN FUSED SWITCH
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO	NUMBER
N.T.S.	NOT TO SCALE
OC	ON CENTER
OL'S	OVERLOADS
P	POLE
PB	PUSH BUTTON
PHØ	PHASE
PT	POTENTIAL TRANSFORMER
RCPL	REMOTE CONTROL LIGHTING PANEL
RECEPT.	RECEPTACLE
RF	RETURN FAN
RP	RECEPTACLE PANELBOARD
RSC	RIGID STEEL CONDUIT
SCHED	SCHEDULE
SF	SUPPLY FAN
ST	SHUNT TRIP
STB	SHUNT TRIP BREAKER
SW	SWITCH
SWBD	SWITCHBOARD
TB	TERMINAL BLOCK
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE

ELECTRICAL RECEPTACLES

	DUPLEX RECEPTACLE - NORMAL POWER
	DUPLEX RECEPTACLE - EMERGENCY POWER
	DUPLEX RECEPTACLE TYPE GFCI - NORMAL POWER
	DUPLEX RECEPTACLE TYPE GFCI - EMERGENCY POWER
	QUADRAPLEX RECEPTACLE - NORMAL POWER
	QUADRAPLEX RECEPTACLE - EMERGENCY POWER
	QUADRAPLEX RECEPTACLE TYPE GFCI - NORMAL POWER
	QUADRAPLEX RECEPTACLE TYPE GFCI - EMERGENCY POWER
	SIMPLEX RECEPTACLE - NORMAL POWER
	SIMPLEX RECEPTACLE - EMERGENCY POWER
	SPECIAL RECEPTACLE - NORMAL POWER
	SPECIAL RECEPTACLE - EMERGENCY POWER
	JUNCTION BOX (RECESSED/WALL)
	DIRECT CONNECTION TO EQUIPMENT
RECEPTACLE DESIGNATIONS X* INDICATED THE FOLLOWING: BLANK - 20A, 125VAC F - FLUSH IN FLOOR, 20A, 125VAC H - HORIZONTALLY MOUNTED, 20A, 125VAC IG - ISOLATED GROUND, 20A, 125VAC T - TAMPER RESISTANT, 20A, 125VAC S - SURFACE MOUNTED, 20A, 125VAC WP - WEATHERPROOF IN-USE, 20A, 125VAC X - MOUNTED IN EXISTING OUTLET BOX, 20A, 125VAC	
	CEILING DUPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	CEILING DUPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	CEILING QUADRAPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	CEILING QUADRAPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	FLOOR BOX DUPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	FLOOR BOX DUPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	FLOOR BOX QUADRAPLEX RECEPTACLE - NORMAL POWER CIRCUIT
	FLOOR BOX QUADRAPLEX RECEPTACLE - EMERGENCY POWER CIRCUIT
	LINE ADJACENT DEVICE SYMBOL INDICATES RECEPTACLE AT 2' ABOVE BACKSLASH COUNTER TOP TO BOTTOM OF DEVICE COORDINATE WITH CASEWORK
	FLOOR BOX
	SURFACE-MOUNTED RACEWAY WITH RECEPTACLES IN LOCATIONS INDICATED

EQUIPMENT NAMING CONVENTION

POWER DISTRIBUTION NAMING	
FLOOR NUMBER B - BASEMENT 1 - 1ST FLOOR 2 - 2ND FLOOR	SEQUENTIAL PANEL NUMBER FLOOR PLAN UNIT A - UNIT A B - UNIT B
CLASS BLANK OR N - NORMAL C - CRITICAL E - EQUIPMENT G - GENERATOR L - LIFE SAFETY U - UPS	EQUIPMENT TYPE BLANK - PANELBOARD DP - DISTRIBUTION PANELBOARD SW - SWITCHBOARD XR - TRANSFORMER

FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER)											
FEEDER/BRANCH CIRCUIT LABEL	CONDUCTOR SIZE		CONDUIT SIZE & QUANTITY								
	PHASE & EQUIP. SERV.	NEUTRAL	1P, 1N, 1G	2P, 1N, 1G	3P, 1N, 1G	3P, 2N, 1G	3P, 3N, 1G	3P, 1N, 2G	3P, 1N, 2G	3P, 1N, 2G	
F20	12	12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
F30	10	10	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
F40	8	10	3/4"	3/4"	1"	1"	1-1/4"	1-1/4"	1"	1"	
F50	6	10	1"	1"	1"	1"	1-1/4"	1-1/4"	1"	1"	
F60	4	10	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	
F70	4	8	1"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/4"	1-1/4"	
F80	3	8	1"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"	1-1/4"	1-1/4"	
F90	2	8	1"	1-1/4"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	
F100	1	8	1-1/4"	1-1/2"	1-1/2"	2"	2"	2"	2-1/2"	2-1/2"	
F110	1	6	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	
F125	1/0	6	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	
F150	1/0	6	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	
F175	2/0	6	1-1/2"	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	
F200	3/0	6	1-1/2"	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	
F225	4/0	4	2"	2"	2-1/2"	3"	3"	3"	3-1/2"	3-1/2"	
F250	250	4	2"	2-1/2"	3"	3"	3"	3"	3-1/2"	3-1/2"	
F300	350	4	2"	2-1/2"	3"	3-1/2"	3"	3"	3-1/2"	3-1/2"	
F350	500	3	2-1/2"	3"	3-1/2"	4"	4"	4"	4-1/2"	4-1/2"	
F400	3/0	3	(2) 1-1/2"	(2) 2"	(2) 2-1/2"	(2) 2-1/2"	(2) 2-1/2"	(2) 2-1/2"	(2) 2-1/2"	(2) 2-1/2"	
F450	4/0	2	(2) 2"	(2) 2"	(2) 2-1/2"	(2) 2-1/2"	(2) 2-1/2"	(2) 2-1/2"	(2) 2-1/2"	(2) 2-1/2"	
F500	250	2	(2) 2"	(2) 2-1/2"	(2) 3"	(2) 3"	(2) 3"	(2) 3"	(2) 3-1/2"	(2) 3-1/2"	
F600	350	1	(2) 2-1/2"	(2) 3"	(2) 3"	(2) 3-1/2"	(2) 3-1/2"	(2) 3-1/2"	(2) 3-1/2"	(2) 3-1/2"	
F700	500	1/0	(2) 2-1/2"	(2) 3"	(2) 3-1/2"	(2) 4"	(2) 4"	(2) 4"	(2) 4-1/2"	(2) 4-1/2"	
F800	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"	(3) 3-1/2"	(3) 3-1/2"	(3) 3-1/2"	(3) 3-1/2"	
F900	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"	(3) 3-1/2"	(3) 3-1/2"	(3) 3-1/2"	(3) 3-1/2"	
F1000	500	2/0	(3) 2-1/2"	(3) 3"	(3) 3-1/2"	(3) 4"	(3) 4"	(3) 4"	(3) 4-1/2"	(3) 4-1/2"	
F1200	350	3/0	(4) 2-1/2"	(4) 3"	(4) 3"	(4) 3-1/2"	(4) 3-1/2"	(4) 3-1/2"	(4) 3-1/2"	(4) 3-1/2"	
F1600	500	4/0	(5) 3"	(5) 3"	(5) 3-1/2"	(5) 4"	(5) 4"	(5) 4"	(5) 4-1/2"	(5) 4-1/2"	
F2000	500	250	(6) 3"	(6) 3"	(6) 3-1/2"	(6) 4"	(6) 4"	(6) 4"	(6) 4-1/2"	(6) 4-1/2"	
F2500	500	350	(7) 4"	(7) 4"	(7) 3-1/2"	(7) 3-1/2"	(7) 3-1/2"	(7) 3-1/2"	(7) 3-1/2"	(7) 3-1/2"	
F3000	500	500	(8) 4"	(8) 4"	(8) 4"	(8) 4"	(8) 4"	(8) 4"	(8) 4-1/2"	(8) 4-1/2"	

POWER DISTRIBUTION

	DISTRIBUTION PANELBOARD
	BRANCH PANELBOARD - SURFACE MOUNT
	BRANCH PANELBOARD - RECESSED MOUNT
	PAD MOUNTED TRANSFORMER
	MAIN SWITCHBOARD
	AUTOMATIC TRANSFER SWITCH
	WORKING CLEARANCE ABOUT ELECTRICAL EQUIPMENT
	ARROW(S) INDICATE(S) HOME RUN AND NUMBER OF CIRCUITS. HASHMARKS INDICATE NUMBER OF CONDUCTORS.
	GROUND WIRE
	PHASE WIRE
	NEUTRAL WIRE
	GROUND ROD
	NON FUSED DISCONNECT
	FUSED DISCONNECT
	COMBINATION MOTOR STARTER
	MOTOR RATED SWITCH
	PUSHBUTTON
	PUSH BUTTON CONTROL STATION

(NOTES APPLY TO ALL ELECTRICAL DRAWINGS)

GENERAL SYMBOLS & ABBREVIATIONS

- WHERE DIFFERENT RECESSED ELECTRICAL DEVICES WITH THE SAME MOUNTING HEIGHTS ARE INDICATED SIDE-BY-SIDE, MOUNT THE DEVICES SO THAT THERE IS FOUR INCHES BETWEEN ADJACENT VERTICAL EDGES.
- WHERE ELECTRICAL DEVICES WITH DIFFERENT MOUNTING HEIGHTS ARE LOCATED IN THE SAME AREA ALIGN DEVICES VERTICALLY THROUGH THEIR CENTERLINES.
- INSTALL SEPARATE INDEPENDENT NEUTRAL CONDUCTORS FOR ALL 120V AND 277V CIRCUITS. DO NOT SHARE NEUTRALS.
- ALL EXIT FIXTURES AND FIXTURES INDICATED WITH "NL" SHALL BE UNSWITCHED.
- UNLESS OTHERWISE NOTED, PROVIDE FEEDERS AND BRANCH CIRCUITS WHICH HAVE AN AMPACITY EQUAL TO OR GREATER THAN THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE RATING SERVING THE CIRCUIT. REFER TO CIRCUIT SIZING SCHEDULE FOR SIZES OF FEEDERS AND BRANCH CIRCUITS.
- DIVISION 26 CONTRACTOR SHALL REFER TO LIFE SAFETY PLAN FOR FIRE-RATING REQUIREMENTS. DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE-RATED DEVICES/SEALS AS SHOWN ON ELECTRICAL DRAWINGS AND AS REQUIRED BASED ON LIFE SAFETY PLAN INFORMATION.
- PER NEC ARTICLE 110.26(A) AND 110.26(F) THE DEDICATED ELECTRICAL SPACE INCLUDES THE SPACE DEFINED BY EXTENDING THE FOOTPRINT OF THE ELECTRICAL EQUIPMENT (INCLUDING BUT NOT LIMITED TO SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, MOTOR CONTROLLERS) FROM THE FLOOR TO A HEIGHT OF 6'-0" ABOVE THE HEIGHT OF THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER. THE DEDICATED ELECTRICAL SPACE MUST BE CLEAR OF ANY PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION. PLUMBING, HEATING, VENTILATION, AND AIR-CONDITIONING PIPING, DUCTS, AND EQUIPMENT MUST BE INSTALLED OUTSIDE THE WIDTH AND DEPTH ZONE. CONTRACTOR SHALL MAKE SURE NO PIPING OR DUCT WORK IS INSTALLED ABOVE THE ELECTRICAL EQUIPMENT. COORDINATE THESE REQUIREMENTS WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- ALL WORK SHALL CONFORM TO OR EXCEED THE MINIMUM REQUIREMENTS OF THE CURRENT ADOPTED AND APPLICABLE ANS/NFPA 70 WITH STATE AMENDMENTS, ENERGY CODE, ANSI/IEEE C2, AND ALL FEDERAL, STATE, LOCAL, AND MUNICIPAL CODES AND ORDINANCES. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE DIRECTIONS OF ALL AUTHORITIES HAVING JURISDICTION.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING WORK BY THE GENERAL CONTRACTOR. COORDINATE ALL ELECTRICAL WORK WITH THE GENERAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE PENETRATIONS THROUGH ALL FLOORS, WALLS, CEILINGS, AND OTHER CONSTRUCTION ELEMENTS REQUIRED TO COMPLETE HIS WORK. PROVIDE PROPER FIRE SAFING FOR ALL PENETRATIONS MADE. PROVIDE APPROPRIATE SEALANT (I.E. FIRESAFING) TO MAINTAIN CONSTRUCTION INTEGRITY FOR ANY PENETRATIONS THROUGH FLOORS, STRUCTURAL CEILING, AND FIRE WALLS.
- ALL FEEDER NEUTRAL / GROUNDING CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. DERATE / ADJUST MULTIPLE CONDUCTORS IN A RACEWAY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- INSTALL ALL CONDUITS, RACEWAYS, AND CABLE TRAY FOR MAXIMUM HEAD CLEARANCE IN MECHANICAL AREAS.
- NEW DEVICES SHALL MATCH EXISTING DEVICES AND COVERPLATES.
- CEILING MOUNTED DEVICES TO REMAIN SHALL BE SUPPORTED FROM STRUCTURE DURING CONSTRUCTION AND REINSTALLED IN NEW CEILING.
- COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES TO ENSURE EFFECTIVE AND EFFICIENT OVERALL INSTALLATION.

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