UPPER SHELBYVILLE ROAD

FRANKLIN, INDIANA 46131

PROJECT NO: 11582

LAUTH GROUP, INC. 10 WEST CARMEL DRIVE, SUITE 100 CARMEL, IN 46032 317-848-6500

ARCHITECT

COOLER DESIGN, INC. 9135 NORTH MERIDIAN STREET, SUITE A1 INDIANAPOLIS, IN 46260 317-816-1144

Know what's below. Call before you di CALL 2 WORKING DAYS BEFORE YOU DIG

1-800-382-5544

CALL TOLL FREE

PER INDIANA STATE LAW IC8-1-26.
IT IS AGAINST THE LAW TO EXCAVATE WITHOUND SERVICE TWO (2) WORKING DAYS BEFORE

INDEX SHEET | SHEET DESCRIPTION # I.D. COVER SHEET TOPOGRAPHIC SURVEY TYPICAL SECTIONS & GENERAL NOTES EXISTING CONDITIONS/DEMOLITION PLAN C4.0 SITE PLAN GRADING PLAN COMPENSATORY STORAGE PLAN UTILITY PLAN C6.0 8-9 C6.1-C6.2 SANITARY SEWER PLAN AND PROFILE FORCEMAIN PLAN AND PROFILE 11-12 C6.4-C6.5 STORM SEWER PROFILES 13-15 C7.0-C7.2 SOIL EROSION AND SEDIMENT CONTROL PLANS 16-19 C8.0-C8.3 DETAILS 20-22 C8.4-C8.7 LIFT STATION DETAILS **SPECIFICATIONS** 24 C9.0 25-26 L1.0-L1.1 LANDSCAPE PLANS

BENCHMARK

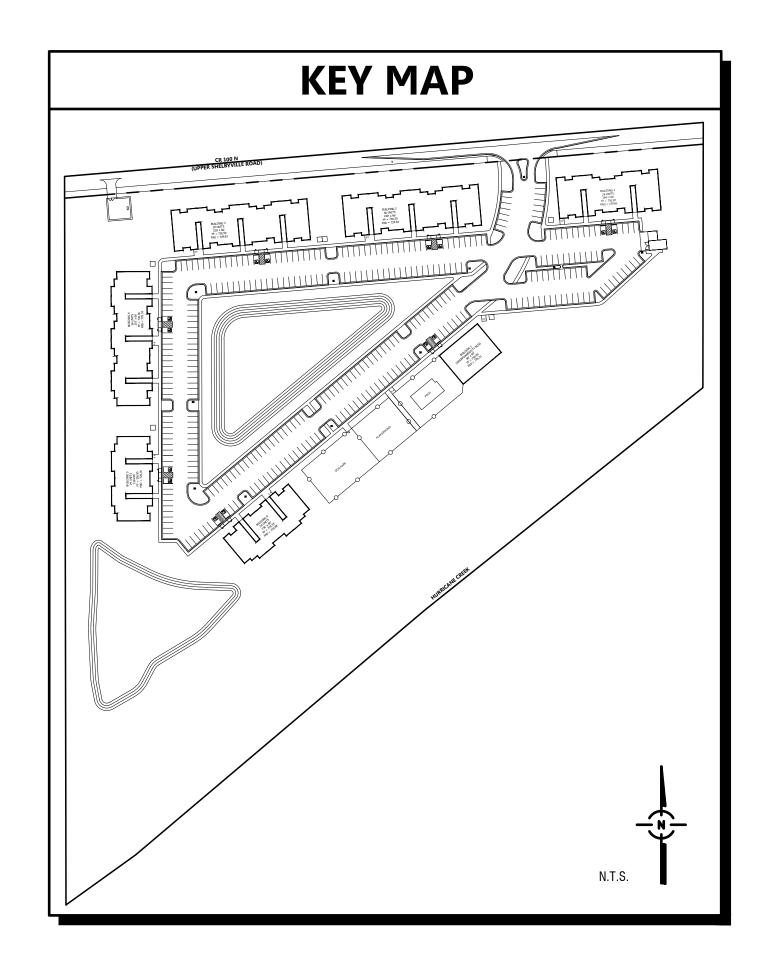
ELEVATION:

DESCRIPTION: SEE SHEET C2.0 FOR BENCHMARK INFORMATION

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NOTE:

SPACECO, INC. IS TO BE NOTIFIED AT LEAST THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION AND SHALL BE INCLUDED IN THE PRECONSTRUCTION MEETINGS



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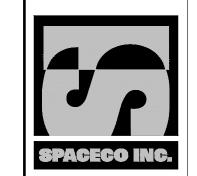
ENGINEER DILLON REYNOLDS, P.E.	DATE
INDIANA REGISTRATION NO.: PE12000722 EXPIRATION DATE: 07/31/2022	
PROFESSIONAL DESIGN FIRM NO.: 184-001157 EXPIRATION DATE: 07/31/2022	7
THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDE THE SIGNATURE , SEAL, AND EXPIRATION DATE OF SEAL	

INDER'S POINTE APARTMENTS UPPER SHELBYVILLE ROAD FRANKLIN, IN 46131



rity Way South Drive, Suite 110 Indianapolis, Indiana 46240 Phone: (317) 779-2194

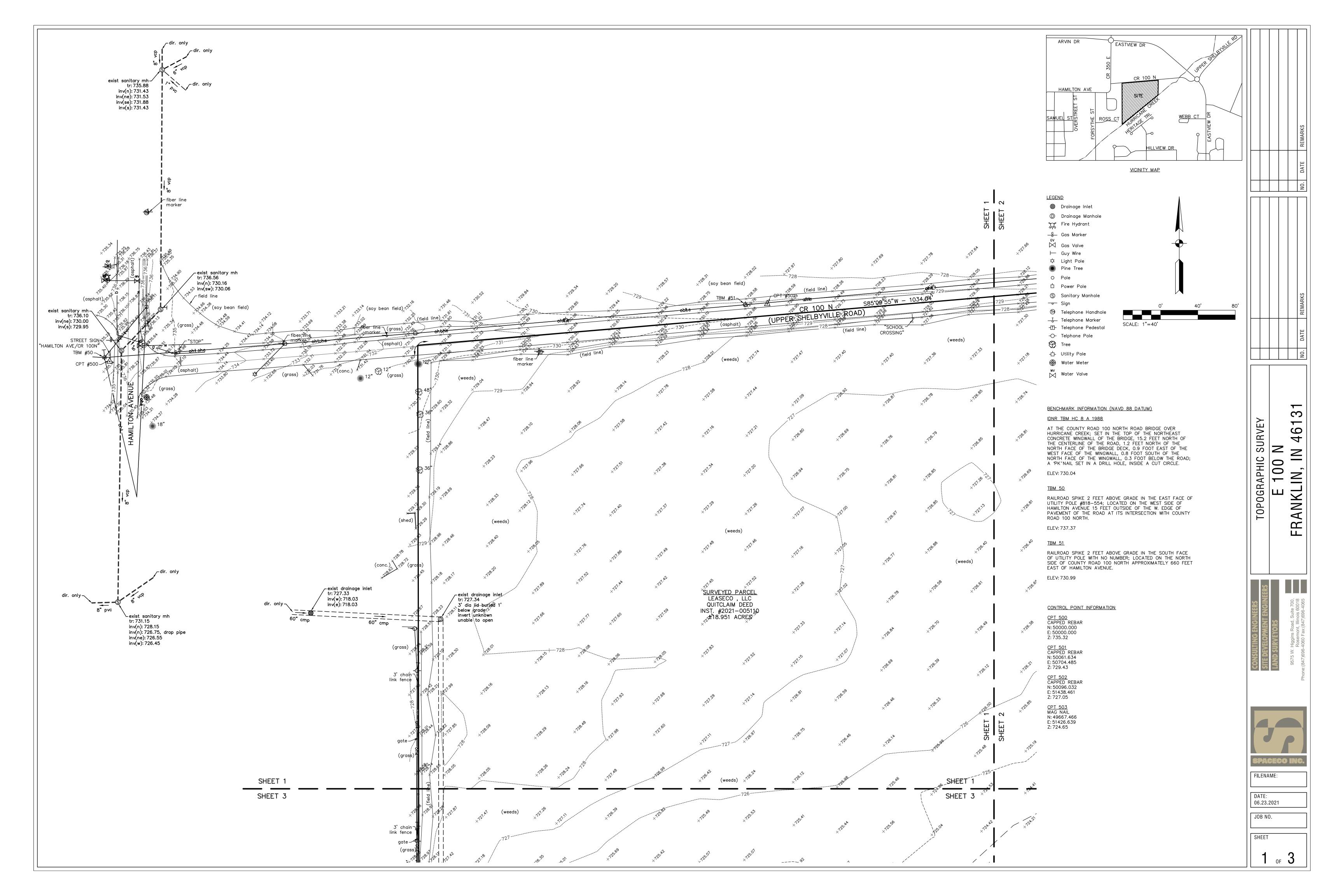
ONSULTING ENGINEERS
TE DEVELOPMENT ENGINEERS
AND SURVEYORS

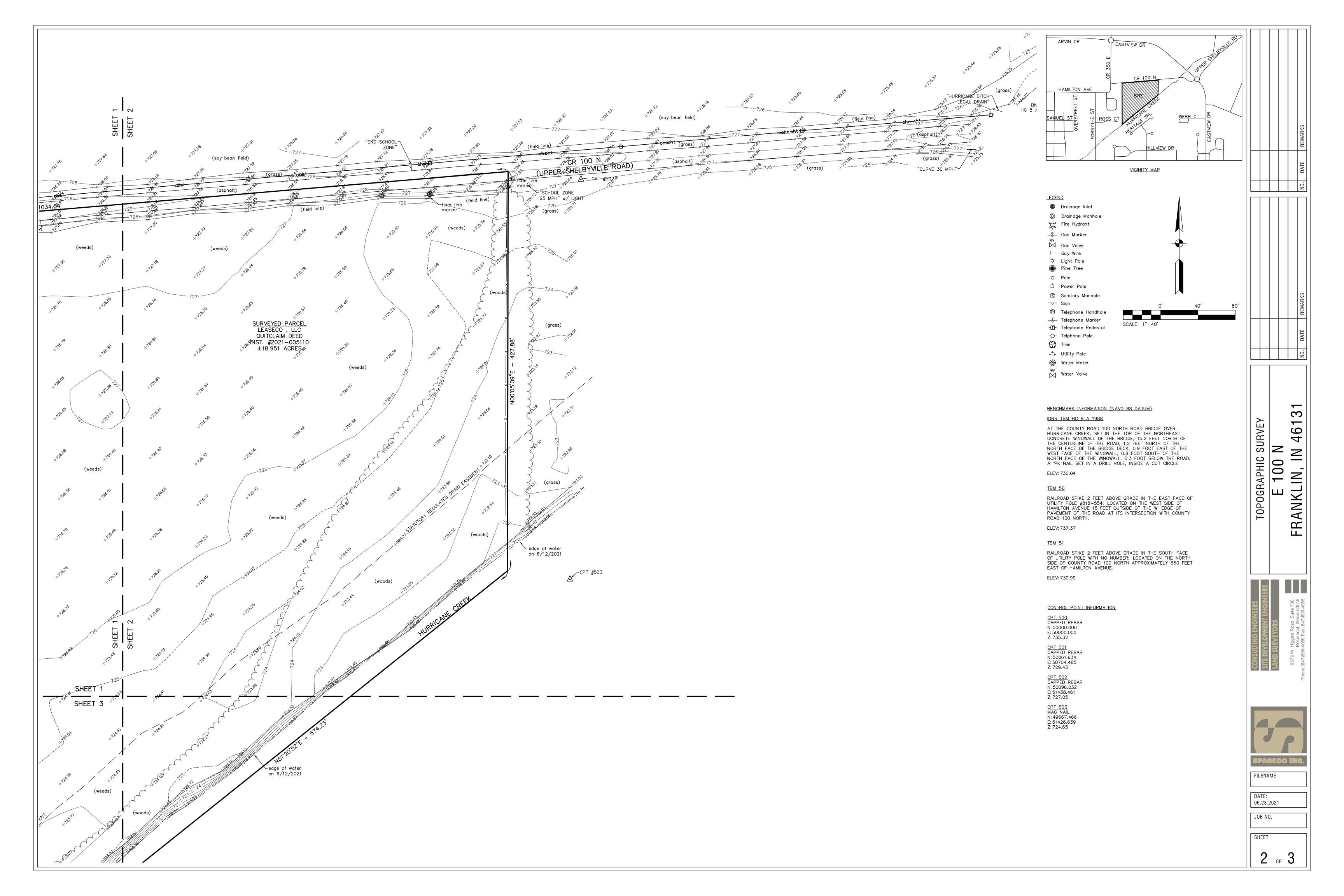


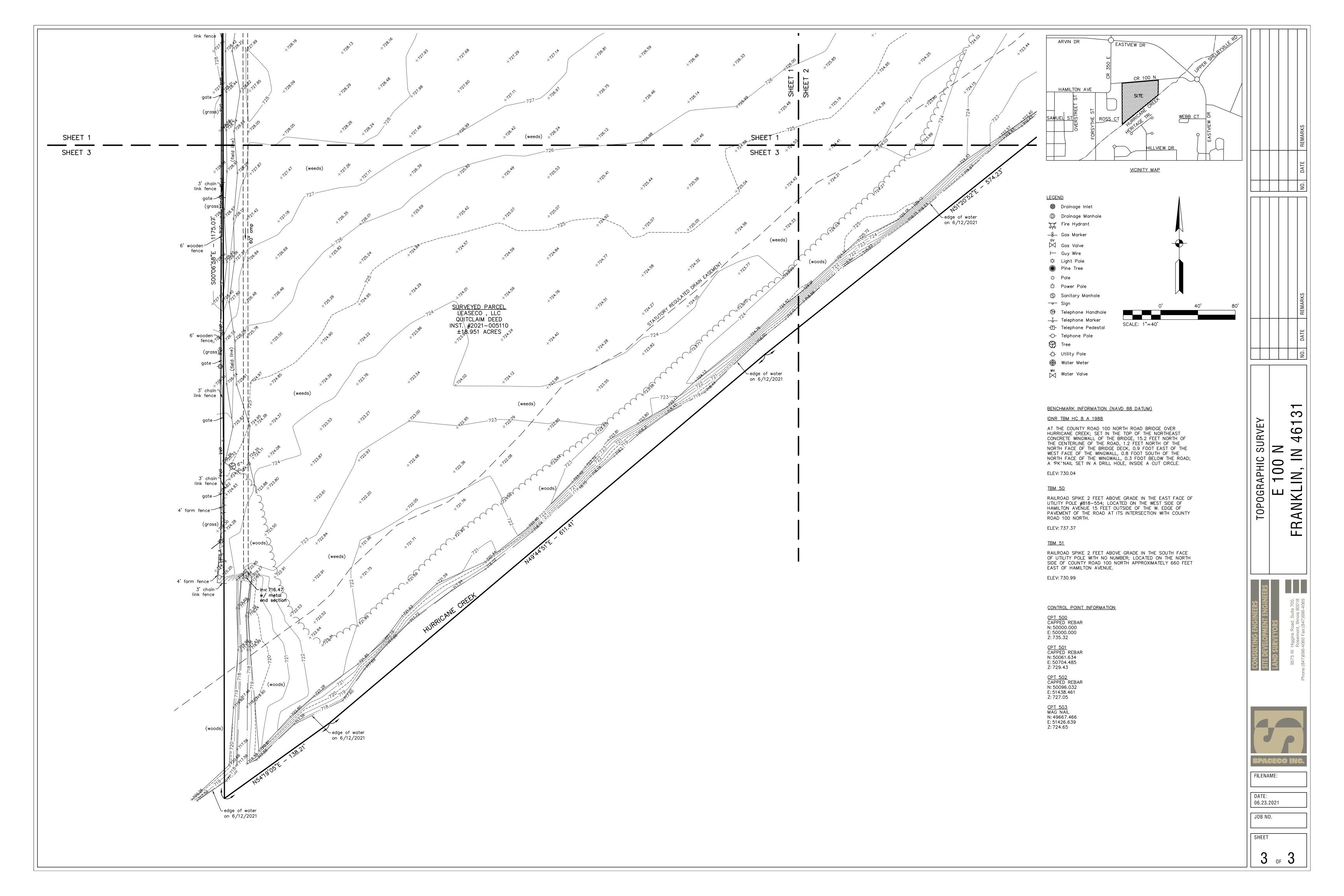
FILENAME: 11582TITLE

JOB NO. 11582

C1.0







GENERAL NOTES

1. REFERENCED CODES A. ALL PAVEMENT CONSTRUCTION SHALL CONFORM TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARDS; AND IN ACCORDANCE WITH THE LATEST EDITION OF THE CODE OF THE CITY OF FRANKLIN; EXCEPT AS MODIFIED HEREIN. IN

CASE OF CONFLICT, MUNICIPAL CODE SHALL TAKE PRECEDENCE.

- B. ALL SANITARY SEWER AND WATERMAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR THE CITY OF FRANKLIN. THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM), AND TEN STATES STANDARDS
- FOR SEWAGE WORKS, LATEST EDITION, C. ALL SIDEWALK AND PUBLIC AREAS MUST BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA STANDARDS.
- D. THE CITED STANDARD SPECIFICATIONS, CODES AND PERMITS, WITH THESE CONSTRUCTION PLANS AND DETAILS, ARE ALL TO BE CONSIDERED PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT.

2. UTILITY LOCATIONS

- A. THE UTILITY COMPANIES HAVE BEEN CONTACTED IN REFERENCE TO UTILITIES THEY OWN AND OPERATE WITHIN THE LIMITS FOR THIS PROJECT. DATA FROM THESE AGENCIES HAS BEEN INCORPORATED INTO THE PLANS. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES AND THEIR EXACT LOCATIONS, AND TO SAFELY SCHEDULE ALL UTILITY RELOCATIONS. FOR ADDITIONAL INFORMATION, THE AGENCIES LISTED ON THIS SHEET MAY BE CONTACTED.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING LITILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL 811 OR 1-800-382-5544 AND THE MUNICIPALITY, FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE MUNICIPALITY FORTY-EIGHT (48) HOURS PRIOR TO STARTING ANY CONSTRUCTION.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

3. UTILITY COORDINATION

- A. OWNER SHALL OBTAIN EASEMENTS AND PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS.
- B. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF ITS WORK FROM TIME TO TIME, TO COORDINATE SAME WITH UTILITY RELOCATION WORK, AND SHALL PREPARE REVISED SCHEDULE(S) IN COMPLIANCE THEREWITH AS
- THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRING COOPERATION WITH OTHERS. AT&T SHALL BE CONTACTED ONE MONTH PRIOR TO START OF CONSTRUCTION IN ITS UTILITY AREAS. ALL OTHER AGENCIES, UNLESS OTHERWISE NOTED, SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR TEN (10) DAYS PRIOR TO THE START OF ANY SUCH
- NO PLAN SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION". PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
- UPON AWARDING OF THE CONTRACT, AND WHEN REQUIRED BY THE MUNICIPALITY OR OWNER, THE CONTRACTOR SHALL FURNISH A LABOR MATERIAL AND PERFORMANCE BOND IN THE AMOUNT REQUIRED GUARANTEFING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY OR OWNER, AS APPROPRIATE.
- THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED WORK. HOWEVER, IF THE OWNER HAS A SOILS REPORT. THE RESULTS WILL BE AVAILABLE FROM THE OWNER UPON WRITTEN REQUEST
- CONTRACTOR SHALL VIDEO TAPE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.

9. COMMENCING CONSTRUCTION

- A. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ADDITION THE CONTRACTOR SHALL NOTIFY AS NECESSARY ALL TESTING AGENCIES, FITHER MUNICIPALITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. ALL MATERIAL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR. THE TESTING AGENCY SHALL MEET THE APPROVAL OF THE OWNER.
- B. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES TO BE UNABLE TO VISIT SITE AND PERFORM TESTING WILL CAUSE CONTRACTOR TO SUSPEND OPERATION (PERTAINING TO TESTING) UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK TO BE BORNE BY CONTRACTOR.
- 10. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC. AT NO TIME SHALL ACCESS BE DENIED TO ADJACENT PROPERTIES.
- 11. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE DEVELOPER'S ENGINEER
- ANY EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS OWN EXPENSE AS SHOWN ON THE ENGINEERING PLANS OR AS DIRECTED BY THE DEVELOPER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET. SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.
- REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC. SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMIT REQUIRED FOR SUCH DISPOSAL.
- ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR SHALL BE RESTORED TO PROPER OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD THE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER DEVELOPER OR MUNICIPAL ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 15. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB.
- THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS EXCESS MATERIALS. TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
- ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS SPECIFICALLY NOTED ON THE PLANS.
- 18. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED.
- 19. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT MEETING THE OWNER'S APPROVAL AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.
- 20. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE
- 21. ALL CUTS OVER 1" IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS OVER 1" IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT

22. GENERAL EXCAVATION/UNDERGROUND NOTES

- A, SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH CODES AND ORDINANCES HAVING JURISDICTION, SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE EITHER BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF
- B. PROVIDE MATERIALS FOR SHORING AND BRACING, SUCH AS SHEET PILING. UPRIGHTS. STRINGERS AND CROSS BRACES, IN GOOD SERVICEABLE CONDITION. PROVIDE MINIMUM REQUIREMENTS FOR TRENCH SHORING AND BRACING TO COMPLY WITH CODES AND AUTHORITIES HAVING JURISDICTION. MAINTAIN SHORING AND BRACING IN EXCAVATIONS REGARDLESS OF TIME PERIOD EXCAVATIONS WILL BE OPEN. CARRY DOWN SHORING AND BRACING AS EXCAVATION PROGRESSES IN ACCORDANCE WITH OSHA AND GOVERNING AUTHORITY.
- C. PREVENT SURFACE WATER AND SUBSURFACE OR GROUNDWATER FROM FLOWING INTO EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS. PROVIDE AND MAINTAIN PUMPS. SUMPS. SUCTION AND DISCHARGE LINES AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS. CONVEY WATER REMOVED FROM EXCAVATIONS AND RAINWATER TO COLLECTING OR RUN-OFF AREAS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. PROVIDE AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS FOR EACH STRUCTURE. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.
- D. IMMEDIATELY REPORT CONDITIONS THAT MAY CAUSE UNSOUND BEARING TO THE OWNER/DEVELOPER BEFORE CONTINUING WORK.

23. FINAL ACCEPTANCE

- A. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD. THIS GUARANTEE SHALL BE PROVIDED IN THE FORM OF MAINTENANCE BOND IN THE AMOUNT OF 10%
- B. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTOR'S WORK HAS BEEN APPROVED AND
- C. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE MUNICIPALITY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE MUNICIPALITY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE, AND PRIOR TO PLACING ANY CONCRETE AFTER FORMS HAVE BEEN SET.
- D. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

24. UNDERGROUND NOTES

- A. UNDERGROUND WORK SHALL INCLUDE TRENCHING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT
- B. WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR SYSTEMS WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL AND DISPOSAL OF DEBRIS AND DIRT DRAINAGE STRUCTURES AND SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE. NO PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT.
- C. ANY DEWATERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK UNLESS THERE IS A SPECIFIC LINE ITEM FOR DEWATERING. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED IN SEWER CONSTRUCTION, THE CONTRACTOR SHALL (UPON APPROVAL OF THE OWNER AND/OR ENGINEER) OVER-EXCAVATE TO A DEPTH OF ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE
-). TRENCH BACKFILL WILL BE REQUIRED FOR THE FULL TRENCH DEPTH WITHIN FIVE (5) FEET OF PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS AND EXTENDING A DÍSTANCE EQUAL TO A 1:1 SLOPE FROM SUBGRADE ELEVATION TO TOP OF PIPE. THE TRENCH BACKFILL SHALL CONSIST OF GRANULAR MATERIAL MEETING INDOT #8 STONE GRADATION. THE TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL SPECIFICATIONS. JETTING WITH WATER SHALL NOT BE PERMITTED. THE COST OF SUCH CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.
- THE CONTRACTOR SHALL INSTALL A 4" X 4" X 8' (NOMINAL) POST AT THE TERMINUS OF THE SANITARY, WATER AND STORM SERVICE, SANITARY AND STORM MANHOLES, CATCH BASINS, INLETS AND WATER VAULTS. THE POST SHALL EXTEND 4' ABOVE THE GROUND. THE TOP 12" OF SAID POST SHALL BE PAINTED AS FOLLOWS: SANITARY - RED, WATERMAIN - BLUE STORM - GREEN
- AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED. THE CONTRACTOR SHALL PLACE EROSION CONTROL AT REAR YARD INLET LOCATIONS. AND AT OTHER LOCATIONS SELECTED BY THE ENGINEER, TO MINIMIZE THE AMOUNT OF SILTATION WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM.
- 3. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ON THE ROAD SUBGRADES. WHENEVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM (IF AVAILABLE). DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION AND/OR ÈROSION FROM HYDRANT FLUSHING, OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE REPAIRED BY THE CONTRACTOR AT HIS COST.
- H. ALL TOP OF FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULT COVERS ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE NTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL INSPEC OF THE PROJECT. (FINAL GRADES TO BE DETERMINED BY THE MUNICIPALITY AT THE TIME OF FINAL INSPECTION AND MAY VARY FROM PLAN GRADE.)
- SLEEVES FOR UTILITY (COMED, TELEPHONE, ETC.) STREET CROSSING, SHALL BE INSTALLED WHERE DIRECTED BY THE OWNER. SLEEVES SHALL BE 6" PVC INSTALLED 36" BELOW THE TOP OF CURB AND EXTEND TWO FEET OUTSIDE THE CURB. TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL
- THE CONTRACTOR SHALL VERIFY THE SIZE AND INVERT ELEVATION OF ALL CONNECTIONS TO AVOID ANY CONFLICTS BEFORE STARTING WORK. NOTIFY OWNER OF ANY DISCREPANCIES

DETENTION POND CROSS-SECTION

N.T.S.

100-YEAR ELEVATION = 725.58

6' SAFETY LEDGE

@ 720.00

6' SAFETY LEDGE

@ 717.50

COMPENSATORY STORAGE POND CROSS-SECTION

N.T.S.

POND BOTTOM = 710.00

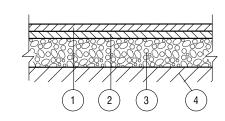
POND BOTTOM = 708.00

NORMAL POOL = 721.50

25. IT SHALL BE UNDERSTOOD THAT NEITHER THE MUNICIPALITY, ITS OFFICIALS, CONSULTANTS, NOR ITS EMPLOYEES ARE AGENTS OF OR REPRESENTATIVES OF THE OWNER. NONE-THE-LESS. THE MUNICIPALITY ITS OFFICIALS AND EMPLOYEES ARE TO BE PROVIDED SAFE ACCESS TO ALL PHASES OF ALL WORK PERFORMED ON THE PROJECT SITE TO MONITOR THE QUALITY OF THE WORK AND ASSURE ITS CONFORMITY WITH THE PLANS AND SPECIFICATIONS. THERE SHALL BE NO PERSONAL LIABILITY UPON ANY OFFICIAL OR EMPLOYEE OF THE MUNICIPALITY ON ACCOUNT OF ACTIONS TAKEN OR NOT TAKEN IN THE COURSE OF THEIR WORK. THE CONTRACTOR MUST AT ALL TIMES MAINTAIN A SAFE ACCESS TO THE WORK FOR INSPECTORS. "SAFE": MEANING CONDITIONS COMPLYING WITH ALL PROVISIONS OF ALL APPLICABLE AND RECOGNIZED SAFETY STANDARDS, FEDERAL STATE AND LOCAL IF ACCESS IS NOT SAFE AND INSPECTIONS CANNOT BE MADE LINDER SAFE CONDITIONS, THE INSPECTOR CAN ORDER CESSATION OF THE WORK SO AFFECTED UNTIL SUCH TIME AS CONTRACTOR PROVIDES SAFE ACCESS.

(PASSENGER VEHICLE PARKING AREAS)

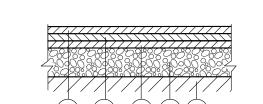
- (1) 1.5" HMA SURFACE COURSE
- 2.5" HMA INTERMEDIATE COURSE 3) 6" AGGREGATE BASE COURSE, #53 STONE
- (4) COMPACTED AND STABLE SUBGRADE



HEAVY DUTY ASPHALT PAVEMENT SECTION (PASSENGER VEHICLE DRIVE AISLES)

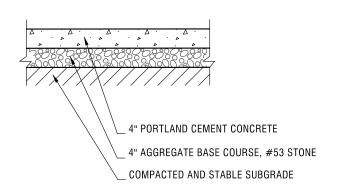
N.T.S.

- 1.5" HMA SURFACE COURSE
- 3.5" HMA INTERMEDIATE COURSE
- 8" AGGREGATE BASE COURSE, #53 STONE 4) COMPACTED AND STABLE SUBGRADE



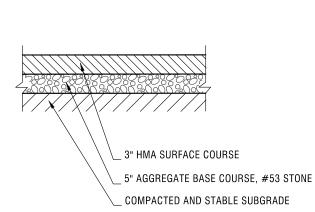
RIGHT-OF-WAY ASPHALT PAVEMENT SECTION

- 1.5" QC/QA-HMA, 4, 76, SURFACE COURSE, 9.5mm
- 3.0" QC/QA-HMA, 4, 76, INTERMEDIATE COURSE, 19.0mm
- 5.5" QC/QA-HMA, 4, 64, BASE COURSE, 19.0mm
- 4) 3.0" COMPACTED AGGREGATE, NO. 53
- SUBGRADE TREATMENT, TYPE IBC



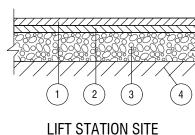
TYPICAL SIDEWALK SECTION

N.T.S.



ASPHALT TRAIL SECTION

N.T.S.



ASPHALT PAVEMENT SECTION

- 1) 2.0" HMA SURFACE COURSE 2.0" HMA INTERMEDIATE COURSE
- 3) 8" AGGREGATE BASE COURSE, #53 STONE
- (4) COMPACTED AND STABLE SUBGRADE

DRAIN TILE	
STORM SEWER	->
SANITARY SEWER	->
FORCEMAIN	→
WATER MAIN (WITH SIZE)	-w
PIPE TRENCH BACKFILL	
GAS MAIN	-G
TELEPHONE LINES	_т
ELECTRIC LINE	-E
FENCE	x
RIGHT-OF-WAY	
EASEMENT	
PROPERTY LINE	
SETBACK LINE	
CENTERLINE	
CONTOUR	680
SANITARY MANHOLE	0
STORM MANHOLE	•
CATCH BASIN	•
INLET	
FIRE HYDRANT	•
PRESSURE CONNECTION	9
PIPE REDUCER	>
VALVE AND VAULT, VALVE	0
FLARED END SECTION	•
STREET LIGHT	X
UTILITY POLE	•
CONTROL POINT	
SIGN	•
SPOT ELEVATION	xxx.xx
SOIL BORING	•
OVERLAND FLOW ROUTE	-
DRAINAGE SLOPE	->> OR -→
GUARDRAIL	
WATER'S EDGE OR NORMAL POOL	
CONCRETE	,
REVERSE PITCH CURB	111111111111111111111111111111111111111
TREE, FIR TREE, BUSH &	
	STORM SEWER SANITARY SEWER FORCEMAIN WATER MAIN (WITH SIZE) PIPE TRENCH BACKFILL GAS MAIN TELEPHONE LINES ELECTRIC LINE FENCE RIGHT-OF-WAY EASEMENT PROPERTY LINE SETBACK LINE CONTOUR SANITARY MANHOLE STORM MANHOLE CATCH BASIN INLET FIRE HYDRANT PRESSURE CONNECTION PIPE REDUCER VALVE AND VAULT, VALVE FLARED END SECTION STREET LIGHT UTILITY POLE CONTROL POINT SIGN SPOT ELEVATION SOIL BORING OVERLAND FLOW ROUTE DRAINAGE SLOPE GUARDRAIL WATER'S EDGE OR NORMAL POOL CONCRETE REVERSE PITCH CURB

LEGEND

DESCRIPTION

PROPOSED

	SINCE LIGHT	_
-0-	UTILITY POLE	-
۵	CONTROL POINT	
þ	SIGN	•
×××.××	SPOT ELEVATION	xxx.xx
+	SOIL BORING	•
	OVERLAND FLOW ROUTE	
	DRAINAGE SLOPE	->> OR ->-
	GUARDRAIL	
	WATER'S EDGE OR NORMAL POOL	
	CONCRETE	A
	REVERSE PITCH CURB	111111111111111111111111111111111111111
	TREE, FIR TREE, BUSH &	XX
	PROPOSED TREE TO REMOVE	
	ARRREVIATIONS	

ABBREVIATIONS

- INV = INVERTM = STORM MANHOLETF = TOP OF FOUNDATION S = SANITARY MANHOLE
- GF = GARAGE FLOORCB = CATCH BASINTC = TOP OF CURBLP = LIGHT POLE
- TD = TOP OF DEPRESSED CURBVV = VALVE VAULTE = END SECTION
- FH = FIRE HYDRANT

TW = TOP OF RETAINING WALL BW = BOTTOM OF RETAINING WALL GR = GRADE RING (HYDRANT)

STM = STORM SEWERL0 = L00K OUTPLO = PARTIAL LOOK OUT OP = OUTLET OF PIPE

T/P = TOP OF PIPE

B/P = BOTTOM OF PIPE

WM = WATERMAIN

SAN = SANITARY SEWER

BENCHMARK

IDNR TBM HC 8 A 1988: AT THE COUNTY ROAD 100 NORTH ROAD BRIDGE OVER HURRICANE CREEK; SET IN THE TOP OF THE NORTHEAST CONCRETE WINGWALL OF THE BRIDGE, 15.2 FEET NORTH OF THE CENTERLINE OF THE ROAD, 1.2 FEET NORTH OF THE NORTH FACE OF THE BRIDGE DECK, 0.9 FEET EAST OF THE WEST FACE OF THE WINGWALL, 0.8 FEET SOUTH OF THE NORTH FACE OF THE WINGWALL, 0.3 FEET BELOW THE ROAD; A PK NAIL SET IN A DRILL HOLE, INSIDE A CUT CIRCLE. ELEV. = 730.04

TBM 50: RAILROAD SPIKE 2 FEET ABOVE GRADE IN THE EAST FACE OF UTILITY POLE #818-554; LOCATED ON WEST SIDE OF HAMILTON AVENUE 15 FEET OUTSIDE OF THE W. EDGE OF PAVEMENT OF THE ROAD AT ITS INTERSECTION WITH COUNTY ROAD 100 NORTH.

TBM 50: RAILROAD SPIKE 2 FEET ABOVE GRADE IN THE SOUTH FACE OF UTILITY POLE WITH NO NUMBER; LOCATED ON THE NORTH SIDE OF COUNTY ROAD 100 NORTH APPROXIMATELY 660 FEET EAST OF HAMILTON AVENUE. ELEV: 730.99

CONTROL POINT INFORMATION

CAPPED REBAR N: 50000.000 E: 50000.000 Z: 735.32

CAPPED REBAR N: 50061.634 E: 50704.485 Z: 729.43

CAPPED REBAR N: 50096.032

E: 51438.461

Z: 727.05

MAG NAIL N: 49667.466 E: 51426.639

Z: 727.65



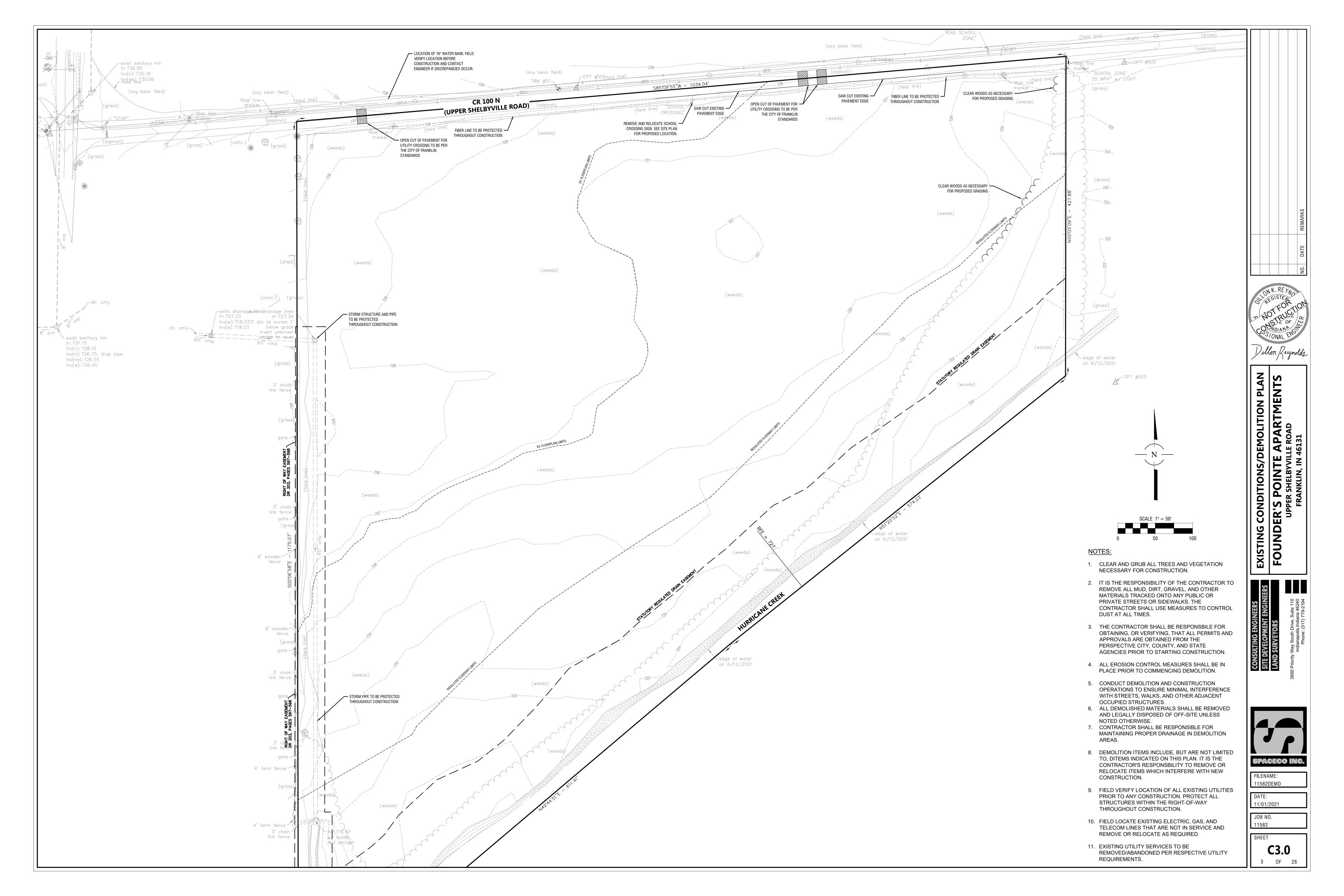
GENERAL E APART

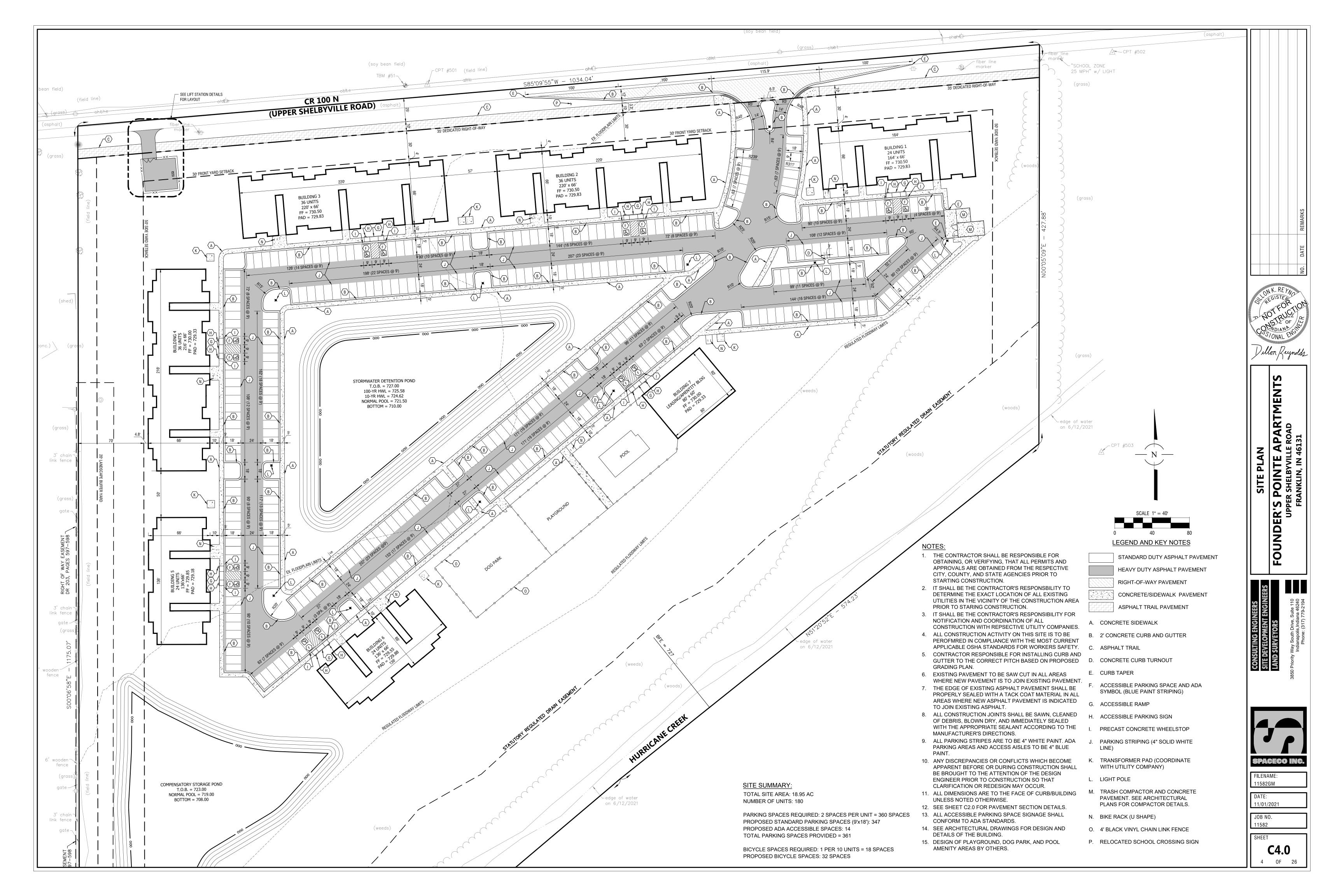
SECTIONS & R.S. POINT UPPER SHELBY ш OUND

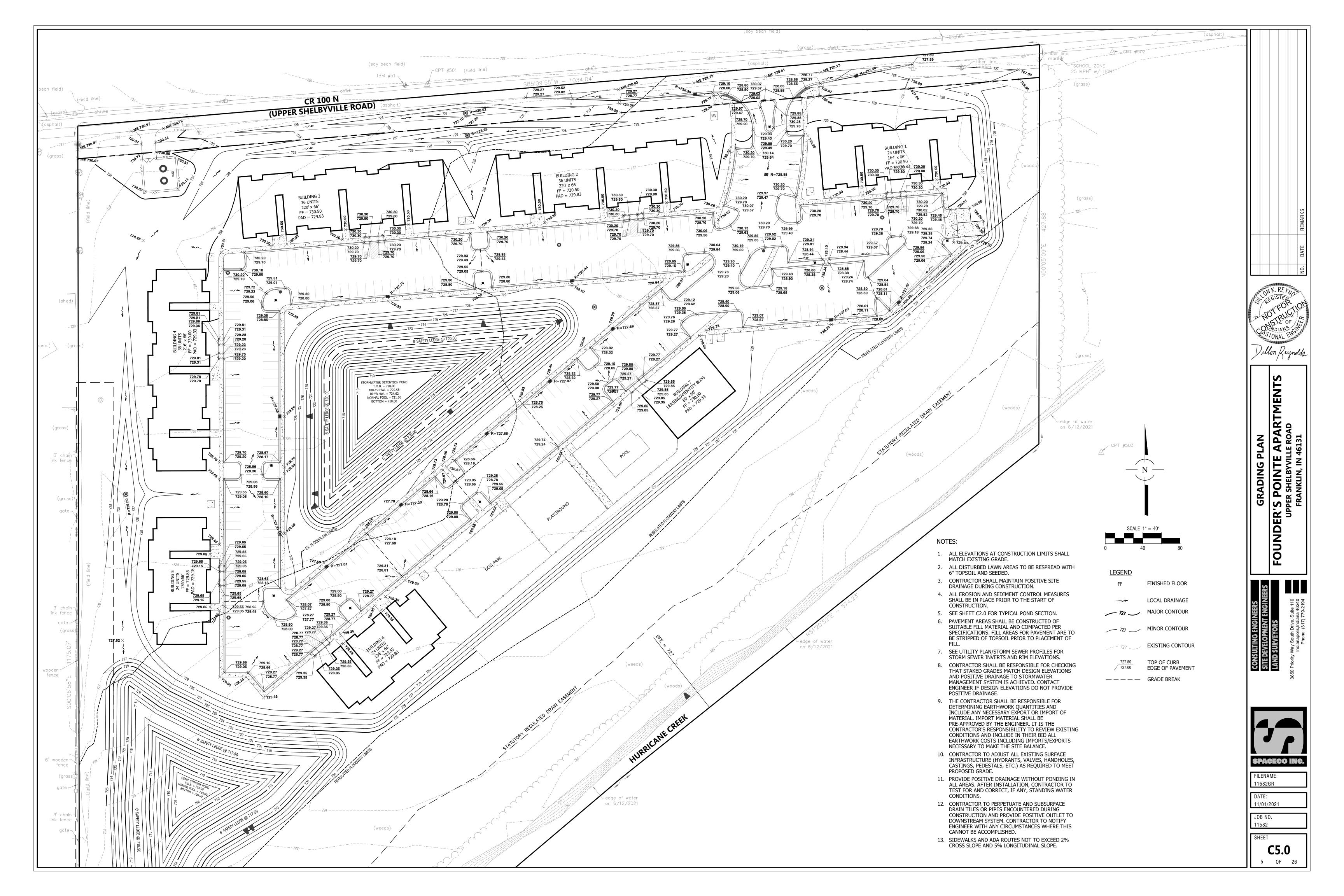


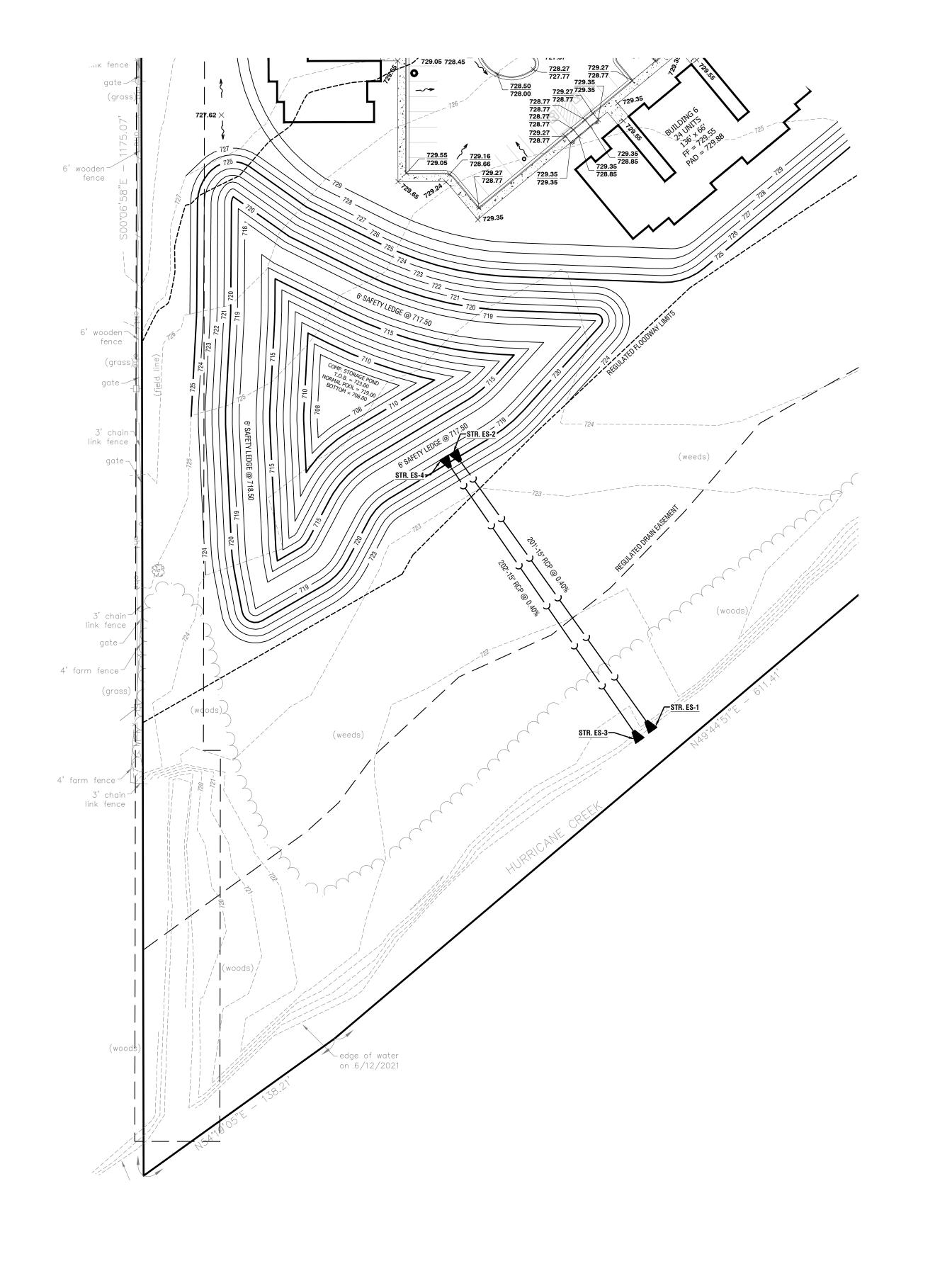
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11/01/2021 1582

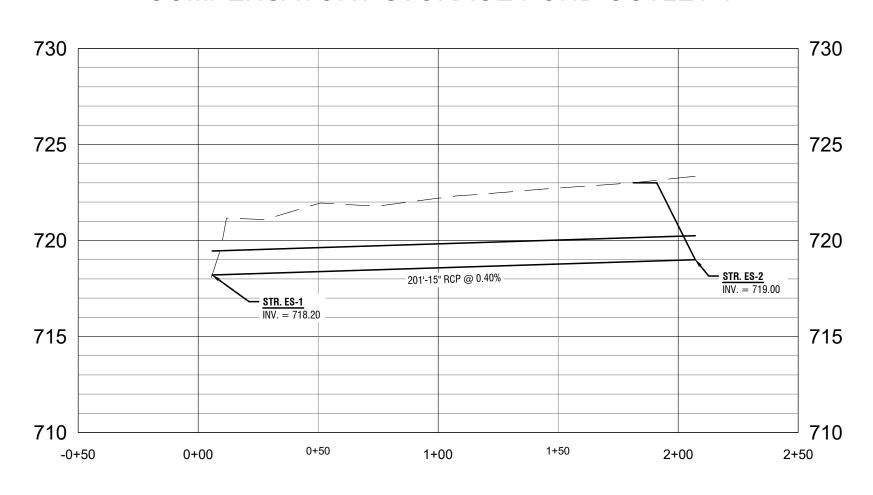




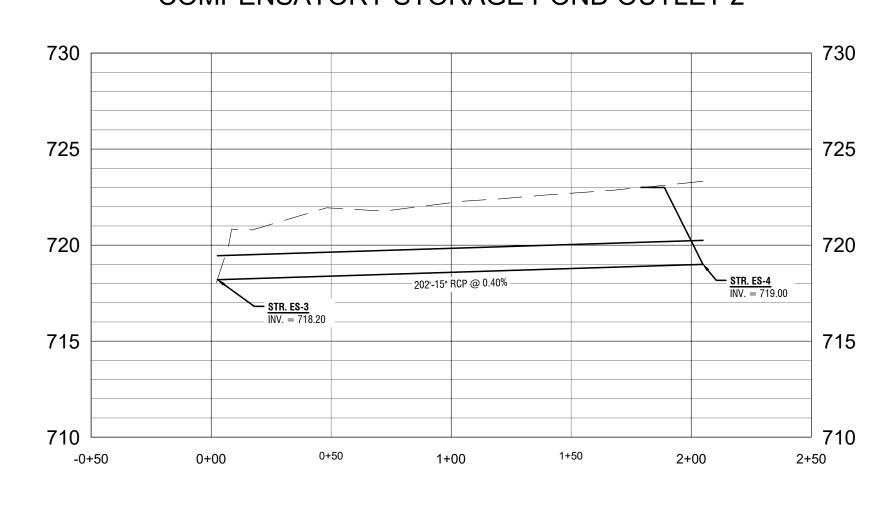


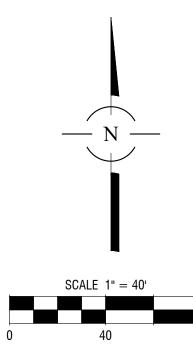


COMPENSATORY STORAGE POND OUTLET 1



COMPENSATORY STORAGE POND OUTLET 2





LEGEND

FF FINISHED FLOOR

LOCAL DRAINAGE

MAJOR CONTOUR

727 MINOR CONTOUR

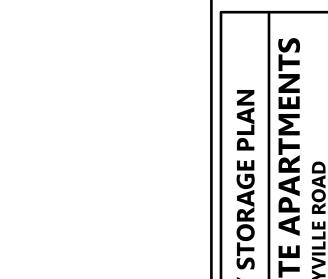
727 EXISTING CONTOUR

727.50 TOP OF CURB EDGE OF PAVEMENT

— — — — GRADE BREAK

NOTES:

1. SEE SHEET C5.0 FOR NOTES.



TENGINEERS

COMPENSATORY S

FOUNDER'S POINT

UPPER SHELBY



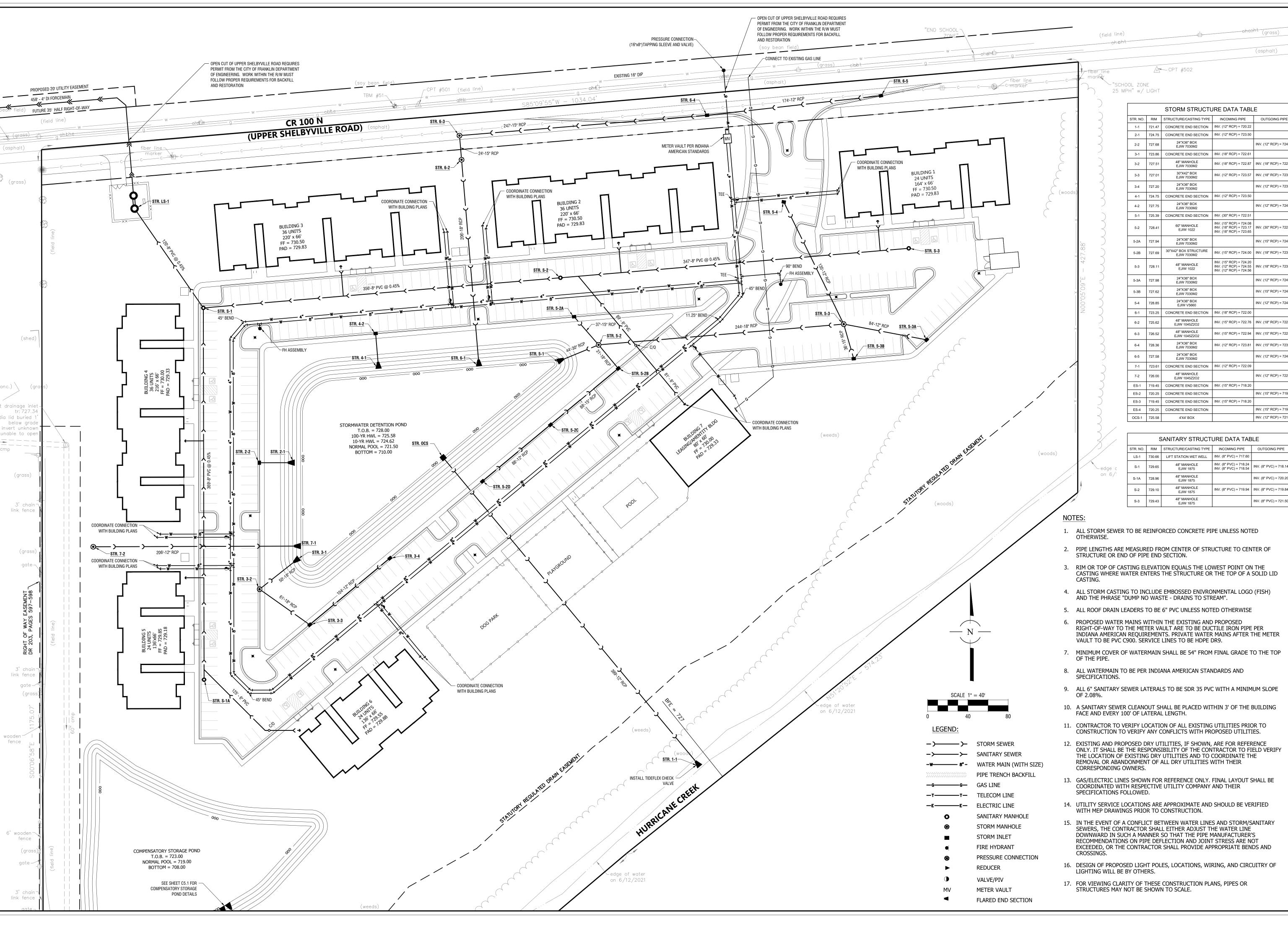


FILENAME: 11582GR

DATE: 11/01/2021

OB NO. 1582

C5.1

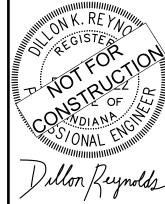


2-1 724.75 CONCRETE END SECTION INV. (12" RCP) = 723.50 INV. (12" RCP) = 724.00 3-1 723.86 CONCRETE END SECTION INV. (18" RCP) = 722.61 INV. (18" RCP) = 722.87 | INV. (18" RCP) = 722.7 INV. (12" RCP) = 723.57 | INV. (18" RCP) = 723.07 INV. (12" RCP) = 723.90 4-1 724.75 CONCRETE END SECTION INV. (12" RCP) = 723.50 INV. (12" RCP) = 724.00 5-1 725.39 CONCRETE END SECTION INV. (30" RCP) = 722.51 INV. (15" RCP) = 724.08 INV. (18" RCP) = 723.17 INV. (30" RCP) = 722.65 INV. (18" RCP) = 723.65 INV. (15" RCP) = 724.20 INV. (15" RCP) = 724.00 INV. (18" RCP) = 723.75 INV. (15" RCP) = 724.20 INV. (12" RCP) = 724.55 INV. (12" RCP) = 724.56 INV. (12" RCP) = 724.82 INV. (15" RCP) = 724.31 INV. (12" RCP) = 724.99 6-1 723.25 CONCRETE END SECTION INV. (18" RCP) = 722.00 INV. (15" RCP) = 722.76 | INV. (18" RCP) = 722.66 INV. (15" RCP) = 722.94 INV. (15" RCP) = 722.84 INV. (12" RCP) = 723.81 INV. (15" RCP) = 723.7 INV. (12" RCP) = 724.37 7-1 723.61 CONCRETE END SECTION INV. (12" RCP) = 722.09 INV. (12" RCP) = 722.75 ES-1 719.45 CONCRETE END SECTION INV. (15" RCP) = 718.20 INV. (15" RCP) = 719.00 ES-3 719.45 CONCRETE END SECTION INV. (15" RCP) = 718.20 INV. (15" RCP) = 719.00 INV. (12" RCP) = 721.50

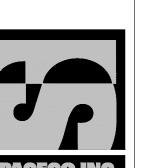
STR. NO. RIM STRUCTURE/CASTING TYPE INCOMING PIPE LS-1 | 730.66 | LIFT STATION WET WELL | INV. (8" PVC) = 717.60 INV. (8" PVC) = 718.54 | INV. (8" PVC) = 718.14 INV. (8" PVC) = 719.94 | INV. (8" PVC) = 719.84 INV. (8" PVC) = 721.50

- 1. ALL STORM SEWER TO BE REINFORCED CONCRETE PIPE UNLESS NOTED
- PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF
- CASTING WHERE WATER ENTERS THE STRUCTURE OR THE TOP OF A SOLID LID

- RIGHT-OF-WAY TO THE METER VAULT ARE TO BE DUCTILE IRON PIPE PER INDIANA AMERICAN REQUIREMENTS. PRIVATE WATER MAINS AFTER THE METER
- 7. MINIMUM COVER OF WATERMAIN SHALL BE 54" FROM FINAL GRADE TO THE TOP
- 9. ALL 6" SANITARY SEWER LATERALS TO BE SDR 35 PVC WITH A MINIMUM SLOPE
- 10. A SANITARY SEWER CLEANOUT SHALL BE PLACED WITHIN 3' OF THE BUILDING
- CONSTRUCTION TO VERIFY ANY CONFLICTS WITH PROPOSED UTILITIES.
- 12. EXISTING AND PROPOSED DRY UTILITIES, IF SHOWN, ARE FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF EXISTING DRY UTILITIES AND TO COORDINATE THE
- 13. GAS/ELECTRIC LINES SHOWN FOR REFERENCE ONLY. FINAL LAYOUT SHALL BE
- 15. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM/SANITARY SEWERS, THE CONTRACTOR SHALL EITHER ADJUST THE WATER LINE DOWNWARD IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON PIPE DEFLECTION AND JOINT STRESS ARE NOT
- 16. DESIGN OF PROPOSED LIGHT POLES, LOCATIONS, WIRING, AND CIRCUITRY OF



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BPACECO INC.

11/01/2021

11582

C6.0