KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

PROJECT NUMBER: 20-700-151-2

SEE SHEET G-001 FOR INDEX

DESIGN TEAM

ARCHITECT/CIVIL ENGINEER
RQAW Consulting Engineers & Architects
8770 North Sreet, Ste. 110
Fishers, IN 46038
P: (317) 588-1798

RQAW

STRUCTURAL ENGINEER
JPS Consulting Engineers
9365 Counselors Row
Indianapolis, IN 46240
P: (317) 617-4270

JPS CONSULTING ENGINEERS, LLC

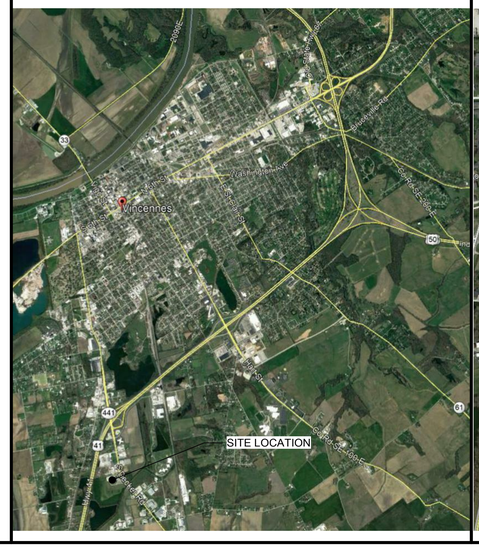
MEP ENGINEER
RQAW Consulting Engineers & Architects
8770 North Sreet, Ste. 110
Fishers, IN 46038
P: (317) 588-1798

RQAW

CONSTRUCTION MANAGER
GARMONG Construction Services
5988 N. Michigan Road
Indianapolis, IN 46228
P: (317) 682-1001

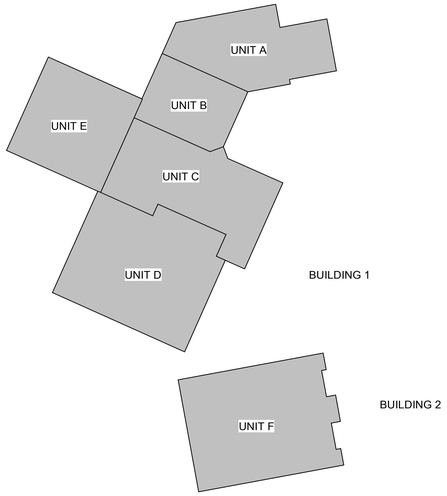
GARMONG Construction Services

SITE LOCATION



BUILDING LOCATION

PROJECT KEY PLAN



KNOX COUNTY JUSTICE CAMPUS

PROJECT NUMBER: 20-700-151-2

PROJECT ISSUED: 01.28.2022

BID SET

KNOX COUNTY JUSTICE CAMPUS
SHEET INDEX

RQAW ARCHITECTURE

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

Project #: 20-700-151-2

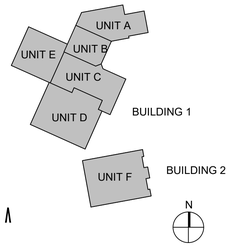
Designed By: LD/SP

Drawn By: JW

Checked By: LD/EV

Date: 02.04.2022

ERIC S. WEFLEN REGISTERED No. AR11500136 STATE OF INDIANA ARCHITECT



SHEET INDEX

G 001

2D FIRST FLOOR FIRE AND LIFE SAFETY PLAN BUILDING 1
1/16" = 1'-0"

CODE SUMMARY

APPLICABLE CODE:	General Administrative Rules (GAR) 2014 Indiana Building Code (IBC)* *Code referenced unless otherwise noted
OCCUPANCY CLASSIFICATIONS:	Jail/Corrections Facility - I-3 Occupancy, Condition 4 [308.4] Office and administrative areas - B Occupancy [304.1]
SCOPE OF PROJECT:	The project involves interior remodel and new additions to an existing jail facility and construction of a new community corrections building adjacent to the existing jail. The existing building consists of a 1-story building with approximately 28,230 sf with a separated 2-story cell pod building with approximately 15,530 sf on the 1st floor and 8,760 sf on the 2nd floor. The new additions to the existing building will include a 1-story book-in center and sallyport addition at the north end with approximately 15,110 sf and a new 2-story cell pod addition on the south end with approximately 19,200 sf on the 1st floor and 8,760 sf on the 2nd floor. The additions will be separated from the existing building with 2-hour fire walls. The new 2-story community corrections building will have approximately 26,000 sf on the 1st floor and 11,070 sf on the 2nd floor. The buildings and additions are/will be Type IIB Construction and classified as Group B and I-3 occupancies.
VARIANCES:	A variance will be requested to permit gun port openings in the security glazing of smoke barrier walls in the control room overlooking the jail pod. A variance will be requested to permit sprinklers to be eliminated under open grated mezzanine obstruction. A variance will be requested to permit elimination of engineered smoke control system for windowless smoke compartments. A variance will be requested to permit an alternative automatic fire-extinguishing system in data rooms in lieu of automatic sprinklers.
CONSTRUCTION TYPE:	Type IIB (nonrated, noncombustible) for new additions and existing
BUILDING ELEMENTS - FIRE-RESISTIVE REQUIREMENTS:	Building elements are permitted to be nonrated throughout, including structural frame, floors, exterior walls, and roof structure. [Table 601] Exterior walls are permitted to be non-rated where the fire separation distance is at least 10 feet. Where the fire separation distance is less than 10 feet, the exterior wall is required to be 1 hour rated. [Table 602]
FIRE WALLS - BUILDING AREA	A 2-hour fire wall is required to separate building areas between the existing building and each new addition.[503.1, Table 706.4, footnote 'a']
ALLOWABLE AREA AND HEIGHT (BOOK IN/SALLYPORT ADDITION):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 5,400 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 35,400 sf Area of addition: 15,110 sf 2 stories permitted, 1 story actual [504.2]
ALLOWABLE AREA AND HEIGHT (JAIL CELL POD ADDITION):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 4,300 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 34,300 sf Area of addition(1st floor): 19,200 sf Area of addition (2nd floor): 8,760 sf 2 stories permitted, 2 stories actual [504.2]
ALLOWABLE AREA AND HEIGHT (COMMUNITY CORRECTIONS BUILDING):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 7,500 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 37,500 sf Actual Area (1st floor): 26,000sf Actual Area (2nd floor): 11,070 sf 2 stories permitted, 2 stories actual [504.2]
OCCUPANCY SEPARATIONS:	None required. Building will meet requirements for non-separated occupancies. [508.3]
INCIDENTAL USE SEPERATIONS:	Group I-3 padded cells must be separated with 1-hour fire barriers and horizontal assemblies. Waste and linen collection rooms over 100 sf must be separated with 1-hour fire barriers or protected with automatic sprinklers. Laundry rooms over 100 sf must be separated with 1-hour fire barriers or protected with automatic sprinklers. Furnace rooms where any piece of equipment is over 400,000Btu must be separated with 1-hour fire barriers or protected with automatic sprinklers. Sprinklers will be provided throughout the building. [Table 509] Where Table 509 permits automatic sprinkler system without a fire barrier, the incidental uses shall be separated from the remainder of the building by construction capable of resisting the passage of smoke. Walls are required to extend to deck or rated ceiling, and doors must be self-closing.[509.4.2]
SMOKE BARRIERS:	Smoke barriers are required to separate the housing area into 2 smoke compartments. [408.6, 709] *A variance will be requested to permit gun port openings in the security glazing of smoke barrier walls.
SUBDIVISION OF RESIDENT HOUSING AREAS:	Sleeping rooms are required to be separated from the day rooms with smoke tight construction where the exit access travel through the day room to the common area exceeds 50 feet. [408.8.1]
SHAFT ENCLOSURES:	Shafts, including exit stairways, are required to be 1-hour rated where connecting 2 stories. [713.4] Exit access stairways are permitted to be unenclosed between a mezzanine and the story below. [712.1.10]
CORRIDORS:	Corridors are not required to be rated based upon sprinkler protection throughout. [Table 1018.1, footnote 'b']
DEAD ENDS:	Maximum dead ends in a corridor are permitted to be 50 feet in Group I-3 and B Occupancies with sprinklers. [1018.4, Exc. 1 and 2]
MEANS OF EGRESS:	2 means of egress are required from areas with an occupant load exceeding 10 in I-3 Occupancy or 49 in B Occupancy, or where the common path of travel exceeds 100 feet. [1015.1]
EXIT ACCESS TRAVEL DISTANCE:	The exit access travel distance is permitted to be a maximum of 200 feet in Group I-3 and 300 feet in Group B. [1016.1] For Group I-3, the maximum travel distance permitted is 200 feet from any point to a door in the smoke barrier. [408.6.1]
DOORS:	Doors must swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more. [1008.1.2]
AUTOMATIC SPRINKLERS:	Sprinklers are required throughout Group I-3; Sprinklers will be provided throughout the additions (existing in existing building). [903.2.6] The portion of the sprinkler system protecting the jail areas is permitted to be a dry system activated by a manually operated valve. [903.2.6, Exc. 5] *A variance will be requested to permit sprinklers to be eliminated under open grated mezzanine obstruction. *A variance will be requested to permit alternative fire-extinguishing system in data rooms.
STANDPIPES:	Standpipes are not required since the 2nd floor is less than 30 feet above the level of fire department access. [905.3.1]
FIRE ALARM SYSTEM:	A fire alarm system is required for Group I-3. A fire alarm system is existing and will be extended into the additions as required. [907.2.6]
SMOKE DETECTORS:	Smoke detection is required in Group I-3 in corridors and common areas accessible to residents (not required in individual cells). [907.2.6.3.3] Smoke detectors are required for HVAC shutdown for systems delivering in excess of 2,000cfm. [606.1, IMC]
SMOKE CONTROL SYSTEM:	An engineered smoke control system is required for I-3 Occupancy areas without windows or where windows are nonoperable or not readily breakable. [408.9] *A variance will be requested to permit elimination of engineered smoke control system for windowless smoke compartments.

FIRE AND LIFE SAFETY PLANS ARE FOR SCOPING PURPOSES. CONTRACTOR TO COORDINATE ALL RATED WALL LOCATIONS AND ASSEMBLIES WITH ALL DISCIPLINES. ANY DISCREPTENCIES ARE TO BE DIRECTED TO THE DESIGN TEAM IMMEDIATLY. PROVIDE COORDINATION DRAWINGS PRIOR TO INSTALLATION OF ALL SYSTEMS TO SHOW COMPLIANCE WITH ALL CONTRACT DOCUMENTS.

LIFE SAFETY PLAN LEGEND

Room name 101 AREA: 150 SF OCCUPANCY: Occupancy Load: ## # of Exits: #	EGRESS INFORMATION
LOCK	LOCK BOX
FACP	ANNUNCIATOR
FEC	FIRE EXTINGUISHER (NOT
	NON-RATED INCIDENTAL-USE WALL [508.2.2.1]
	1-HOUR FB RATED WALL (1-HR FB) [IBC 707]
	2-HOUR FB RATED WALL (2-HR FB) [IBC 707]

RQAW ARCHITECTURE

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

Project #: 20-700-151-2

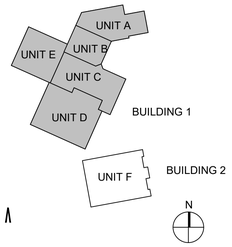
Designed By: LD/SP

Drawn By: CP

Checked By: LD/EV

Date: 01.28.2022

ERIC S. WEFLEN REGISTERED No. AR11500136 STATE OF INDIANA ARCHITECT



FIRST FLOOR FIRE AND LIFE SAFETY PLAN BUILDING 1

G 101

2D SECOND FLOOR FIRE AND LIFE SAFETY PLAN BUILDING 1
1/16" = 1'-0"

CODE SUMMARY

APPLICABLE CODE:	General Administrative Rules (GAR) 2014 Indiana Building Code (IBC)* *Code referenced unless otherwise noted
OCCUPANCY CLASSIFICATIONS:	Jail/Corrections Facility - I-3 Occupancy, Condition 4 [308.4] Office and administrative areas - B Occupancy [304.1]
SCOPE OF PROJECT:	The project involves interior remodel and new additions to an existing jail facility and construction of a new community corrections building adjacent to the existing jail. The existing building consists of a 1-story building with approximately 28,230 sf with a separated 2-story cell pod building with approximately 15,530 sf on the 1st floor and 8,760 sf on the 2nd floor. The new additions to the existing building will include a 1-story book-in center and sallyport addition at the north end with approximately 15,110 sf and a new 2-story cell pod addition on the south end with approximately 19,200 sf on the 1st floor and 8,760 sf on the 2nd floor. The additions will be separated from the existing building with 2-hour fire walls. The new 2-story community corrections building will have approximately 26,000 sf on the 1st floor and 11,070 sf on the 2nd floor. The buildings and additions are/will be Type IIB Construction and classified as Group B and I-3 occupancies.
VARIANCES:	A variance will be requested to permit gun port openings in the security glazing of smoke barrier walls in the control room overlooking the jail pod. A variance will be requested to permit sprinklers to be eliminated under open grated mezzanine obstruction. A variance will be requested to permit elimination of engineered smoke control system for windowless smoke compartments. A variance will be requested to permit an alternative automatic fire-extinguishing system in data rooms in lieu of automatic sprinklers.
CONSTRUCTION TYPE:	Type IIB (nonrated, noncombustible) for new additions and existing
BUILDING ELEMENTS - FIRE-RESISTIVE REQUIREMENTS:	Building elements are permitted to be nonrated throughout, including structural frame, floors, exterior walls, and roof structure. [Table 601] Exterior walls are permitted to be non-rated where the fire separation distance is at least 10 feet. Where the fire separation distance is less than 10 feet, the exterior wall is required to be 1 hour rated. [Table 602]
FIRE WALLS - BUILDING AREA	A 2-hour fire wall is required to separate building areas between the existing building and each new addition.[503.1, Table 706.4, footnote 'a']
ALLOWABLE AREA AND HEIGHT (BOOK IN/SALLYPORT ADDITION):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 5,400 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 35,400 sf Area of addition: 15,110 sf 2 stories permitted, 1 story actual [504.2]
ALLOWABLE AREA AND HEIGHT (JAIL CELL POD ADDITION):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 4,300 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 34,300 sf Area of addition(1st floor): 19,200 sf Area of addition (2nd floor): 8,760 sf 2 stories permitted, 2 stories actual [504.2]
ALLOWABLE AREA AND HEIGHT (COMMUNITY CORRECTIONS BUILDING):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 7,500 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 37,500 sf Actual Area (1st floor): 26,000sf Actual Area (2nd floor): 11,070 sf 2 stories permitted, 2 stories actual [504.2]
OCCUPANCY SEPARATIONS:	None required. Building will meet requirements for non-separated occupancies. [508.3]
INCIDENTAL USE SEPERATIONS:	Group I-3 padded cells must be separated with 1-hour fire barriers and horizontal assemblies. Waste and linen collection rooms over 100 sf must be separated with 1-hour fire barriers or protected with automatic sprinklers. Laundry rooms over 100 sf must be separated with 1-hour fire barriers or protected with automatic sprinklers. Furnace rooms where any piece of equipment is over 400,000Btu must be separated with 1-hour fire barriers or protected with automatic sprinklers. Sprinklers will be provided throughout the building. [Table 509] Where Table 509 permits automatic sprinkler system without a fire barrier, the incidental uses shall be separated from the remainder of the building by construction capable of resisting the passage of smoke. Walls are required to extend to deck or rated ceiling, and doors must be self-closing.[509.4.2]
SMOKE BARRIERS:	Smoke barriers are required to separate the housing area into 2 smoke compartments. [408.6, 709] *A variance will be requested to permit gun port openings in the security glazing of smoke barrier walls.
SUBDIVISION OF RESIDENT HOUSING AREAS:	Sleeping rooms are required to be separated from the day rooms with smoke tight construction where the exit access travel through the day room to the common area exceeds 50 feet. [408.8.1]
SHAFT ENCLOSURES:	Shafts, including exit stairways, are required to be 1-hour rated where connecting 2 stories. [713.4] Exit access stairways are permitted to be unenclosed between a mezzanine and the story below. [712.1.10]
CORRIDORS:	Corridors are not required to be rated based upon sprinkler protection throughout. [Table 1018.1, footnote 'b']
DEAD ENDS:	Maximum dead ends in a corridor are permitted to be 50 feet in Group I-3 and B Occupancies with sprinklers. [1018.4, Exc. 1 and 2]
MEANS OF EGRESS:	2 means of egress are required from areas with an occupant load exceeding 10 in I-3 Occupancy or 49 in B Occupancy; or where the common path of travel exceeds 100 feet. [1015.1]
EXIT ACCESS TRAVEL DISTANCE:	The exit access travel distance is permitted to be a maximum of 200 feet in Group I-3 and 300 feet in Group B. [1016.1] For Group I-3, the maximum travel distance permitted is 200 feet from any point to a door in the smoke barrier. [408.6.1]
DOORS:	Doors must swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more. [1008.1.2]
AUTOMATIC SPRINKLERS:	Sprinklers are required throughout Group I-3; Sprinklers will be provided throughout the additions (existing in existing building). [903.2.6] The portion of the sprinkler system protecting the jail areas is permitted to be a dry system activated by a manually operated valve. [903.2.6, Exc. 5] *A variance will be requested to permit sprinklers to be eliminated under open grated mezzanine obstruction. *A variance will be requested to permit alternative fire-extinguishing system in data rooms.
STANDPIPES:	Standpipes are not required since the 2nd floor is less than 30 feet above the level of fire department access. [905.3.1]
FIRE ALARM SYSTEM:	A fire alarm system is required for Group I-3. A fire alarm system is existing and will be extended into the additions as required. [907.2.6]
SMOKE DETECTORS:	Smoke detection is required in Group I-3 in corridors and common areas accessible to residents (not required in individual cells). [907.2.6.3.3] Smoke detectors are required for HVAC shutdown for systems delivering in excess of 2,000cfm. [606.1, IMC]
SMOKE CONTROL SYSTEM:	An engineered smoke control system is required for I-3 Occupancy areas without windows or where windows are nonopenable or not readily breakable. [408.9] *A variance will be requested to permit elimination of engineered smoke control system for windowless smoke compartments.

FIRE AND LIFE SAFETY PLANS ARE FOR SCOPING PURPOSES. CONTRACTOR TO COORDINATE ALL RATED WALL LOCATIONS AND ASSEMBLIES WITH ALL DISCIPLINES. ANY DISCREPTENCIES ARE TO BE DIRECTED TO THE DESIGN TEAM IMMEDIATLY. PROVIDE COORDINATION DRAWINGS PRIOR TO INSTALLATION OF ALL SYSTEMS TO SHOW COMPLIANCE WITH ALL CONTRACT DOCUMENTS.

LIFE SAFETY PLAN LEGEND

Room name 101 AREA: 150 SF Occupancy Load: ## # of Exits: #	EGRESS INFORMATION
LOCK	LOCK BOX
FACP	ANNUNCIATOR
FEC	FIRE EXTINGUISHER (NOT
	NON-RATED INCIDENTAL-USE WALL [508.2.2.1]
	1-HOUR FB RATED WALL (1-HR FB) [IBC 707]
	2-HOUR FB RATED WALL (2-HR FB) [IBC 707]

RQAW ARCHITECTURE

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

Project #: 20-700-151-2

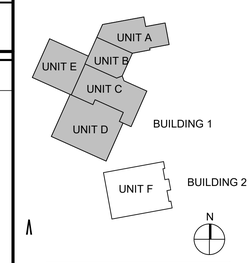
Designed By: LD/SP

Drawn By: CP

Checked By: LD/EV

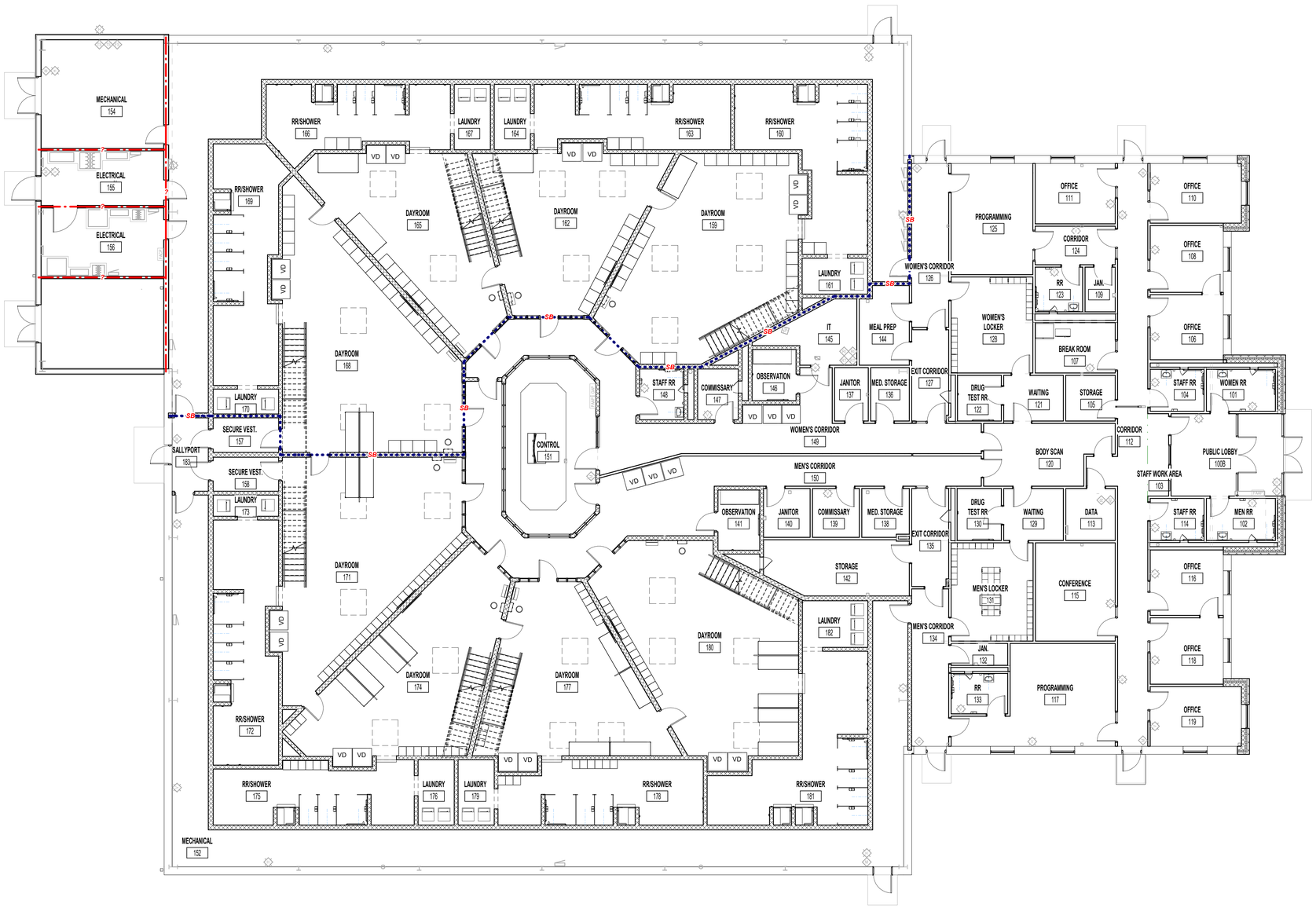
Date: 01.28.2022

ERIC S. WEFLEN REGISTERED No. AR11500136 STATE OF INDIANA ARCHITECT



SECOND FLOOR FIRE AND LIFE SAFETY PLAN BUILDING 1

G 102



2A FIRST FLOOR FIRE AND LIFE SAFETY PLAN BUILDING 2
1/8" = 1'-0"

CODE SUMMARY

APPLICABLE CODE:	General Administrative Rules (GAR) 2014 Indiana Building Code (IBC)* *Code referenced unless otherwise noted
OCCUPANCY CLASSIFICATIONS:	Jail/Corrections Facility - I-3 Occupancy, Condition 4 [308.4] Office and administrative areas - B Occupancy [304.1]
SCOPE OF PROJECT:	The project involves interior remodel and new additions to an existing jail facility and construction of a new community corrections building adjacent to the existing jail. The existing building consists of a 1-story building with approximately 28,230 sf with a separated 2-story cell pod building with approximately 15,530 sf on the 1st floor and 8,760 sf on the 2nd floor. The new additions to the existing building will include a 1-story book-in center and sallyport addition at the north end with approximately 15,110 sf and a new 2-story cell pod addition on the south end with approximately 19,200 sf on the 1st floor and 8,760 sf on the 2nd floor. The additions will be separated from the existing building with 2-hour fire walls. The new 2-story community corrections building will have approximately 26,000 sf on the 1st floor and 11,070 sf on the 2nd floor. The buildings and additions are/will be Type IIB Construction and classified as Group B and I-3 occupancies.
VARIANCES:	A variance will be requested to permit gun port openings in the security glazing of smoke barrier walls in the control room overlooking the jail pod. A variance will be requested to permit sprinklers to be eliminated under open grated mezzanine obstruction. A variance will be requested to permit elimination of engineered smoke control system for windowless smoke compartments. A variance will be requested to permit an alternative automatic fire-extinguishing system in data rooms in lieu of automatic sprinklers.
CONSTRUCTION TYPE:	Type IIB (nonrated, noncombustible) for new additions and existing
BUILDING ELEMENTS - FIRE-RESISTIVE REQUIREMENTS:	Building elements are permitted to be nonrated throughout, including structural frame, floors, exterior walls, and roof structure. [Table 601] Exterior walls are permitted to be non-rated where the fire separation distance is at least 10 feet. Where the fire separation distance is less than 10 feet, the exterior wall is required to be 1 hour rated. [Table 602]
FIRE WALLS - BUILDING AREA	A 2-hour fire wall is required to separate building areas between the existing building and each new addition.[503.1, Table 706.4, footnote 'a']
ALLOWABLE AREA AND HEIGHT (BOOK IN/SALLYPORT ADDITION):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 5,400 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 35,400 sf Area of addition: 15,110 sf 2 stories permitted, 1 story actual [504.2]
ALLOWABLE AREA AND HEIGHT (JAIL CELL POD ADDITION):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 4,300 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 34,300 sf Area of addition(1st floor): 19,200 sf Area of addition (2nd floor): 8,760 sf 2 stories permitted, 2 stories actual [504.2]
ALLOWABLE AREA AND HEIGHT (COMMUNITY CORRECTIONS BUILDING):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 7,500 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 37,500 sf Actual Area (1st floor): 26,000sf Actual Area (2nd floor): 11,070 sf 2 stories permitted, 2 stories actual [504.2]
OCCUPANCY SEPARATIONS:	None required. Building will meet requirements for non-separated occupancies. [508.3]
INCIDENTAL USE SEPERATIONS:	Group I-3 padded cells must be separated with 1-hour fire barriers and horizontal assemblies. Waste and linen collection rooms over 100 sf must be separated with 1-hour fire barriers or protected with automatic sprinklers. Laundry rooms over 100 sf must be separated with 1-hour fire barriers or protected with automatic sprinklers. Furnace rooms where any piece of equipment is over 400,000Btu must be separated with 1-hour fire barriers or protected with automatic sprinklers. Sprinklers will be provided throughout the building. [Table 509] Where Table 509 permits automatic sprinkler system without a fire barrier, the incidental uses shall be separated from the remainder of the building by construction capable of resisting the passage of smoke. Walls are required to extend to deck or rated ceiling, and doors must be self-closing.[509.4.2]
SMOKE BARRIERS:	Smoke barriers are required to separate the housing area into 2 smoke compartments. [408.6, 709] *A variance will be requested to permit gun port openings in the security glazing of smoke barrier walls.
SUBDIVISION OF RESIDENT HOUSING AREAS:	Sleeping rooms are required to be separated from the day rooms with smoke tight construction where the exit access travel through the day room to the common area exceeds 50 feet. [408.8.1]
SHAFT ENCLOSURES:	Shafts, including exit stairways, are required to be 1-hour rated where connecting 2 stories. [713.4] Exit access stairways are permitted to be unenclosed between a mezzanine and the story below. [712.1.10]
CORRIDORS:	Corridors are not required to be rated based upon sprinkler protection throughout. [Table 1018.1, footnote 'b']
DEAD ENDS:	Maximum dead ends in a corridor are permitted to be 50 feet in Group I-3 and B Occupancies with sprinklers. [1018.4, Exc. 1 and 2]
MEANS OF EGRESS:	2 means of egress are required from areas with an occupant load exceeding 10 in I-3 Occupancy or 49 in B Occupancy; or where the common path of travel exceeds 100 feet. [1015.1]
EXIT ACCESS TRAVEL DISTANCE:	The exit access travel distance is permitted to be a maximum of 200 feet in Group I-3 and 300 feet in Group B. [1016.1] For Group I-3, the maximum travel distance permitted is 200 feet from any point to a door in the smoke barrier. [408.6.1]
DOORS:	Doors must swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more. [1008.1.2]
AUTOMATIC SPRINKLERS:	Sprinklers are required throughout Group I-3; Sprinklers will be provided throughout the additions (existing in existing building). [903.2.6] The portion of the sprinkler system protecting the jail areas is permitted to be a dry system activated by a manually operated valve. [903.2.6, Exc. 5] *A variance will be requested to permit sprinklers to be eliminated under open grated mezzanine obstruction. *A variance will be requested to permit alternative fire-extinguishing system in data rooms.
STANDPIPES:	Standpipes are not required since the 2nd floor is less than 30 feet above the level of fire department access. [905.3.1]
FIRE ALARM SYSTEM:	A fire alarm system is required for Group I-3. A fire alarm system is existing and will be extended into the additions as required. [907.2.6]
SMOKE DETECTORS:	Smoke detection is required in Group I-3 in corridors and common areas accessible to residents (not required in individual cells). [907.2.6.3.3] Smoke detectors are required for HVAC shutdown for systems delivering in excess of 2,000cfm. [606.1, IMC]
SMOKE CONTROL SYSTEM:	An engineered smoke control system is required for I-3 Occupancy areas without windows or where windows are nonoperable or not readily breakable. [408.9] *A variance will be requested to permit elimination of engineered smoke control system for windowless smoke compartments.

FIRE AND LIFE SAFETY PLANS ARE FOR SCOPING PURPOSES. CONTRACTOR TO COORDINATE ALL RATED WALL LOCATIONS AND ASSEMBLIES WITH ALL DISCIPLINES. ANY DISCREPTENCIES ARE TO BE DIRECTED TO THE DESIGN TEAM IMMEDIATLY. PROVIDE COORDINATION DRAWINGS PRIOR TO INSTALLATION OF ALL SYSTEMS TO SHOW COMPLIANCE WITH ALL CONTRACT DOCUMENTS.

LIFE SAFETY PLAN LEGEND

Room name 101 AREA: 150 SF EGRESS Occupancy Load: ## # of Exits: #	EGRESS INFORMATION
LOCK	LOCK BOX
FACP	ANNUNCIATOR
FEC	FIRE EXTINGUISHER (NOT
	NON-RATED INCIDENTAL-USE WALL [508.2.2.1]
	1-HOUR FB RATED WALL (1-HR FB) [IBC 707]
	2-HOUR FB RATED WALL (2-HR FB) [IBC 707]

RQAW ARCHITECTURE

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

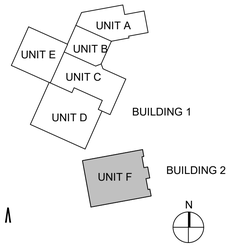
KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

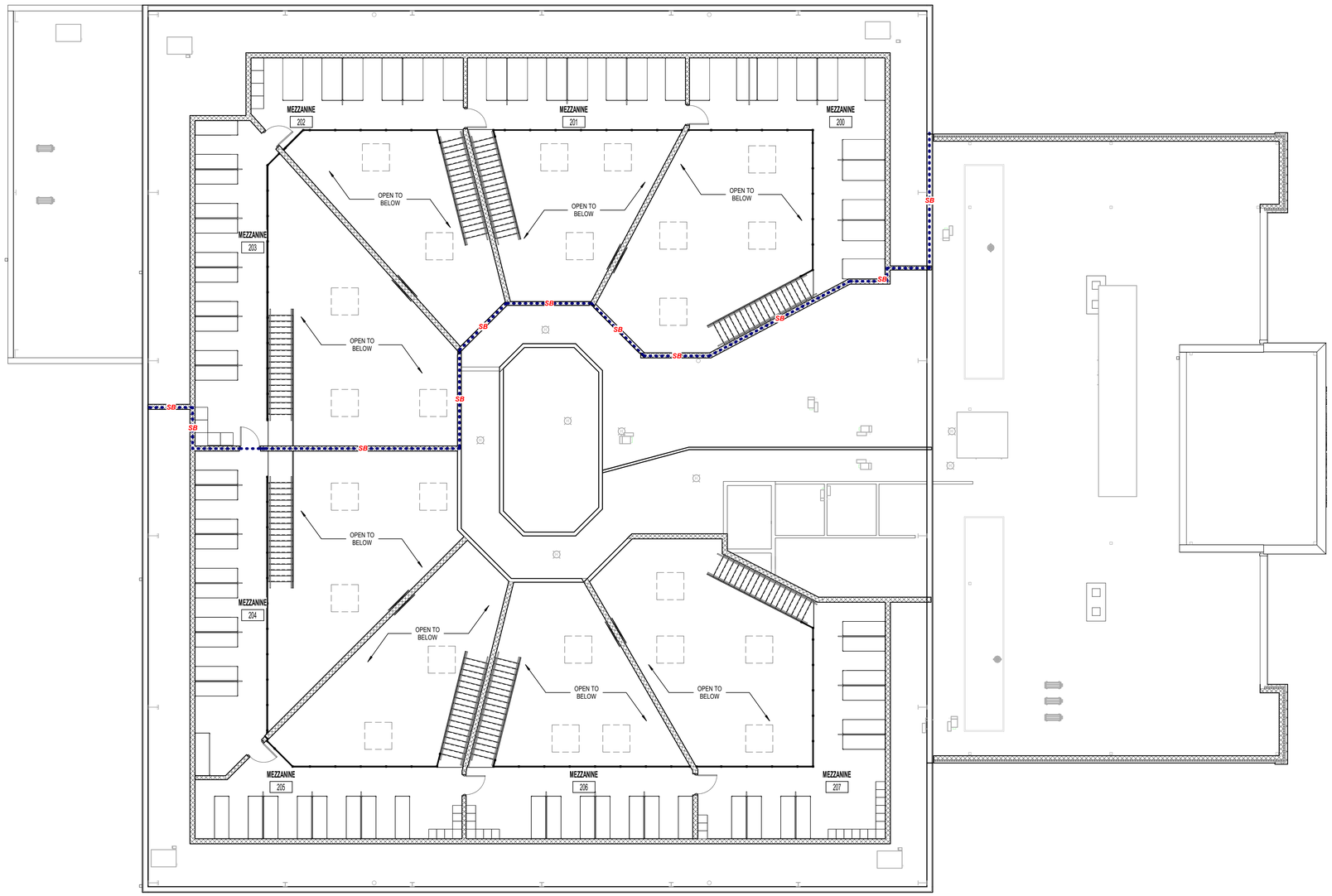
Project #: 20-700-151-2
Designed By: LD/SP
Drawn By: CP
Checked By: LD/EV
Date: 01.28.2022

ERIC S. WEFLEN REGISTERED No. AR11500136 STATE OF INDIANA ARCHITECT



FIRST FLOOR FIRE AND LIFE SAFETY PLAN BUILDING 2

G 103



2A SECOND FLOOR FIRE AND LIFE SAFETY PLAN BUILDING 2
1/8" = 1'-0"

CODE SUMMARY

APPLICABLE CODE:	General Administrative Rules (GAR) 2014 Indiana Building Code (IBC)* *Code referenced unless otherwise noted
OCCUPANCY CLASSIFICATIONS:	Jail/Corrections Facility - I-3 Occupancy, Condition 4 [308.4] Office and administrative areas - B Occupancy [304.1]
SCOPE OF PROJECT:	The project involves interior remodel and new additions to an existing jail facility and construction of a new community corrections building adjacent to the existing jail. The existing building consists of a 1-story building with approximately 28,230 sf with a separated 2-story cell pod building with approximately 15,530 sf on the 1st floor and 8,760 sf on the 2nd floor. The new additions to the existing building will include a 1-story book-in center and sallyport addition at the north end with approximately 15,110 sf and a new 2-story cell pod addition on the south end with approximately 19,200 sf on the 1st floor and 8,760 sf on the 2nd floor. The additions will be separated from the existing building with 2-hour fire walls. The new 2-story community corrections building will have approximately 26,000 sf on the 1st floor and 11,070 sf on the 2nd floor. The buildings and additions are/will be Type IIB Construction and classified as Group B and I-3 occupancies.
VARIANCES:	A variance will be requested to permit gun port openings in the security glazing of smoke barrier walls in the control room overlooking the jail pod. A variance will be requested to permit sprinklers to be eliminated under open grated mezzanine obstruction. A variance will be requested to permit elimination of engineered smoke control system for windowless smoke compartments. A variance will be requested to permit an alternative automatic fire-extinguishing system in data rooms in lieu of automatic sprinklers.
CONSTRUCTION TYPE:	Type IIB (nonrated, noncombustible) for new additions and existing
BUILDING ELEMENTS - FIRE-RESISTIVE REQUIREMENTS:	Building elements are permitted to be nonrated throughout, including structural frame, floors, exterior walls, and roof structure. [Table 601] Exterior walls are permitted to be non-rated where the fire separation distance is at least 10 feet. Where the fire separation distance is less than 10 feet, the exterior wall is required to be 1 hour rated. [Table 602]
FIRE WALLS - BUILDING AREA	A 2-hour fire wall is required to separate building areas between the existing building and each new addition.[503.1, Table 706.4, footnote 'a']
ALLOWABLE AREA AND HEIGHT (BOOK IN/SALLYPORT ADDITION):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 5,400 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 35,400 sf Area of addition: 15,110 sf 2 stories permitted, 1 story actual [504.2]
ALLOWABLE AREA AND HEIGHT (JAIL CELL POD ADDITION):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 4,300 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 34,300 sf Area of addition(1st floor): 19,200 sf Area of addition (2nd floor): 8,760 sf 2 stories permitted, 2 stories actual [504.2]
ALLOWABLE AREA AND HEIGHT (COMMUNITY CORRECTIONS BUILDING):	Tabular Area: 10,000 sf [Table 503] Frontage Increase: + 7,500 sf [506.2] Sprinkler Increase: + 20,000 sf [506.3] Allowable Area per floor: 37,500 sf Actual Area (1st floor): 26,000sf Actual Area (2nd floor): 11,070 sf 2 stories permitted, 2 stories actual [504.2]
OCCUPANCY SEPARATIONS:	None required. Building will meet requirements for non-separated occupancies. [508.3]
INCIDENTAL USE SEPERATIONS:	Group I-3 padded cells must be separated with 1-hour fire barriers and horizontal assemblies. Waste and linen collection rooms over 100 sf must be separated with 1-hour fire barriers or protected with automatic sprinklers. Laundry rooms over 100 sf must be separated with 1-hour fire barriers or protected with automatic sprinklers. Furnace rooms where any piece of equipment is over 400,000Btu must be separated with 1-hour fire barriers or protected with automatic sprinklers. Sprinklers will be provided throughout the building. [Table 509] Where Table 509 permits automatic sprinkler system without a fire barrier, the incidental uses shall be separated from the remainder of the building by construction capable of resisting the passage of smoke. Walls are required to extend to deck or rated ceiling, and doors must be self-closing.[509.4.2]
SMOKE BARRIERS:	Smoke barriers are required to separate the housing area into 2 smoke compartments. [408.6, 709] *A variance will be requested to permit gun port openings in the security glazing of smoke barrier walls.
SUBDIVISION OF RESIDENT HOUSING AREAS:	Sleeping rooms are required to be separated from the day rooms with smoke tight construction where the exit access travel through the day room to the common area exceeds 50 feet. [408.8.1]
SHAFT ENCLOSURES:	Shafts, including exit stairways, are required to be 1-hour rated where connecting 2 stories. [713.4] Exit access stairways are permitted to be unenclosed between a mezzanine and the story below. [712.1.10]
CORRIDORS:	Corridors are not required to be rated based upon sprinkler protection throughout. [Table 1018.1, footnote 'b']
DEAD ENDS:	Maximum dead ends in a corridor are permitted to be 50 feet in Group I-3 and B Occupancies with sprinklers. [1018.4, Exc. 1 and 2]
MEANS OF EGRESS:	2 means of egress are required from areas with an occupant load exceeding 10 in I-3 Occupancy or 49 in B Occupancy, or where the common path of travel exceeds 100 feet. [1015.1]
EXIT ACCESS TRAVEL DISTANCE:	The exit access travel distance is permitted to be a maximum of 200 feet in Group I-3 and 300 feet in Group B. [1016.1] For Group I-3, the maximum travel distance permitted is 200 feet from any point to a door in the smoke barrier. [408.6.1]
DOORS:	Doors must swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more. [1008.1.2]
AUTOMATIC SPRINKLERS:	Sprinklers are required throughout Group I-3; Sprinklers will be provided throughout the additions (existing in existing building). [903.2.6] The portion of the sprinkler system protecting the jail areas is permitted to be a dry system activated by a manually operated valve. [903.2.6, Exc. 5] *A variance will be requested to permit sprinklers to be eliminated under open grated mezzanine obstruction. *A variance will be requested to permit alternative fire-extinguishing system in data rooms.
STANDPIPES:	Standpipes are not required since the 2nd floor is less than 30 feet above the level of fire department access. [905.3.1]
FIRE ALARM SYSTEM:	A fire alarm system is required for Group I-3. A fire alarm system is existing and will be extended into the additions as required. [907.2.6]
SMOKE DETECTORS:	Smoke detection is required in Group I-3 in corridors and common areas accessible to residents (not required in individual cells). [907.2.6.3.3] Smoke detectors are required for HVAC shutdown for systems delivering in excess of 2,000cfm. [606.1, IMC]
SMOKE CONTROL SYSTEM:	An engineered smoke control system is required for I-3 Occupancy areas without windows or where windows are nonopenable or not readily breakable. [408.9] *A variance will be requested to permit elimination of engineered smoke control system for windowless smoke compartments.

FIRE AND LIFE SAFETY PLANS ARE FOR SCOPING PURPOSES. CONTRACTOR TO COORDINATE ALL RATED WALL LOCATIONS AND ASSEMBLIES WITH ALL DISCIPLINES. ANY DISCREPTENCIES ARE TO BE DIRECTED TO THE DESIGN TEAM IMMEDIATLY. PROVIDE COORDINATION DRAWINGS PRIOR TO INSTALLATION OF ALL SYSTEMS TO SHOW COMPLIANCE WITH ALL CONTRACT DOCUMENTS.

LIFE SAFETY PLAN LEGEND

Room name 101 AREA: 150 SF OCCUPANCY: Occupancy Load: ## # of Exits: #	EGRESS INFORMATION
LOCK	LOCK BOX
FACP	ANNUNCIATOR
FEC	FIRE EXTINGUISHER (NOT
	NON-RATED INCIDENTAL-USE WALL [508.2.2.1]
	1-HOUR FB RATED WALL (1-HR FB) [IBC 707]
	2-HOUR FB RATED WALL (2-HR FB) [IBC 707]

RQAW ARCHITECTURE

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

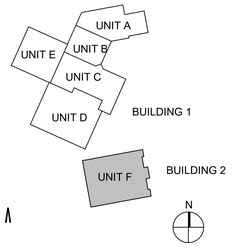
KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

Project #: 20-700-151-2
Designed By: Designer
Drawn By: Author
Checked By: Checker
Date: 01.28.2022

ERIC S. WEFLEN REGISTERED No. AR11500136 STATE OF INDIANA ARCHITECT



SECOND FLOOR FIRE AND LIFE SAFETY PLAN BUILDING 2

G 104

CONSTRUCTION PLANS FOR:

KNOX COUNTY JAIL

VINCENNES, KNOX COUNTY, INDIANA

SHEET INDEX :

SHEET #	SHEET NAME
C000	COVER SHEET
C001	GENERAL NOTES SHEET
C100	EXISTING CONDITIONS/SITE DEMOLITION PLAN
C201	SITE LAYOUT PLAN
C300	SITE UTILITY PLAN
C400	SITE GRADING PLAN
C500	EROSION CONTROL PLAN
C501	EROSION CONTROL DETAILS
C502	STORMWATER POLLUTION PREVENTION PLAN
C600	CONSTRUCTION DETAILS

REVISIONS :

REVISION #	REVISION DESCRIPTION	DATE

FLOOD NOTE:
THE ACCURACY OF ANY FLOOD HAZARD DATA SHOWN ON THESE PLANS IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP. THE WITHIN DESCRIBED TRACT OF LAND LIES WITHIN FLOOD HAZARD ZONE B AS SAID TRACT PLOTS BY SCALE ON COMMUNITY PANEL NUMBER 1804220150C DATED 02/15/1985 FOR THE FLOOD INSURANCE RATE MAPS FOR KNOX COUNTY, INDIANA (UNINCORPORATED AREAS).

DISCLAIMER:
EXISTING CONDITIONS/SURVEY INFORMATION PROVIDED BY PROVIDENCE LAND GROUP, LLC. RQAW IS NOT RESPONSIBLE FOR THE ACCURACY OF THE EXISTING CONDITION/SURVEY INFORMATION PROVIDED. CONTRACTOR TO FIELD VERIFY LOCATION AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND CONTACT ENGINEER AND OWNER IF DISCREPANCIES OCCUR.

BENCH MARK:
CP1
5/8" IRON PIN WITH PLASTIC CAP INSCRIBED "PROVIDENCE LG CONTROL POINT" SET FLUSH + - 68' SOUTHWEST OF STRUCTURE 105 AND + - 189' SOUTHEAST OF STRUCTURE 104.
NORTHING 1,235,642.51
EASTING 2,826,160.69
ELEV. = 416'.69

CP2
5/8" IRON PIN WITH PLASTIC CAP INSCRIBED "PROVIDENCE LG CONTROL POINT" SET FLUSH LOCATED IN AN ISLAND FOR AN ASPHALT PARKING LOT BEING + - 108' WEST OF STRUCTURE 111 AND + - 105' SOUTHEAST OF STRUCTURE 112.
NORTHING 1,235,947.07
EASTING 2,826,527.39
ELEV. = 416'.58

Indiana 811
Know what's below. Call before you dig.

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 WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

PLANS PREPARED FOR:

KNOX COUNTY COMMISSIONERS
111 NORTH 7TH STREET
VINCENNES, INDIANA 47591
TELEPHONE: (812) 890-2623
CONTACT PERSON: TRENT HINKLE, COMMISSIONER
TAHINKLE@KNOXCOUNTY.IN.GOV

PLANS PREPARED BY:

RQAW CORPORATION
8770 NORTH STREET, SUITE 110
FISHERS, INDIANA 46038
TELEPHONE: (317) 588-1798
CONTACT PERSON: MATT OMAN
EMAIL: MOMAN@RQAW.COM

SITE VICINITY MAP

NOT TO SCALE

OPERATING AUTHORITIES

CITY JURISDICTION
CITY OF VINCENNES
201 VIGO STREET
VINCENNES, IN 47591
TELEPHONE: (812) 882-4357
JOHN SPRAGUE, CITY ENGINEER

SANITARY SEWER AUTHORITY
VINCENNES WATER UTILITIES
403 BUSSERON ST.
VINCENNES, IN 47591
TELEPHONE: (812) 882-7877
STAN ECK, COLLECTIONS SYSTEM MANAGER

GAS SERVICE AUTHORITY
CENTERPOINT ENERGY
1 VECTREN SQUARE
EVANSVILLE, IN 47708
TELEPHONE: (800) 227-1376

COMMUNICATIONS
NEW WAVE COMMUNICATIONS
102 N 5TH STREET
VINCENNES, IN 47591
TELEPHONE: (812) 895-7676

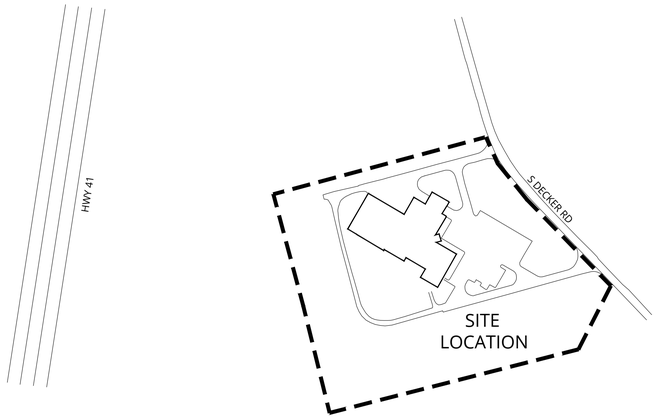
COMMUNICATIONS
METRO FIBERNET, LLC
287 N 15TH STREET
VINCENNES, IN 47591
TELEPHONE: (812) 255-1155

STORM SEWER AUTHORITY
VINCENNES WATER UTILITIES
403 BUSSERON ST.
VINCENNES, IN 47591
TELEPHONE: (812) 882-7877
HUNTER PINNELL, STORMWATER MANAGER

WATER AUTHORITY
VINCENNES WATER UTILITIES
403 BUSSERON ST.
VINCENNES, IN 47591
TELEPHONE: (812) 882-7877
DAVE ABEL

ELECTRICAL/POWER AUTHORITY
DUKE ENERGY
1000 E. MAIN ST.
PLAINFIELD, IN 46168
TELEPHONE: (800) 521-2232

COMMUNICATIONS
SMITHVILLE TELEPHONE
1600 W TEMPERANCE STREET
ELLETTSVILLE, IN 47429
TELEPHONE: (812) 876-2211



SITE LOCATION MAP

NOT TO SCALE

RQAW
SITE / CIVIL

BID SET
KNOX COUNTY BOARD OF COMMISSIONERS
KNOX COUNTY JUSTICE CAMPUS
2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

Project #: 20-700-151-2
Designed By: MSO
Drawn By: JLB
Checked By: MSO
Date: 12/29/2021

NOT FOR CONSTRUCTION

COVER SHEET

C000

DEMOLITION NOTES

1. CLEAR AND GRUB ALL TREES AND VEGETATION NECESSARY FOR CONSTRUCTION.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS OR SIDEWALKS. THE CONTRACTOR SHALL USE MEASURES TO CONTROL DUST AT ALL TIMES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.

3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING DEMOLITION.

4. 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.
5. CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS, AND OTHER ADJACENT OCCUPIED STRUCTURES.
6. ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT UNLESS SPECIFIED OTHERWISE.
7. UTILITIES ARE SHOWN TO BE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANY(S) FOR THE REMOVAL, RELOCATION, AND/OR DEMOLITION OF ALL EXISTING UTILITIES.
8. ALL DEMOLISHED MATERIALS SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE UNLESS NOTED OTHERWISE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER DRAINAGE IN DEMOLITION AREAS.
10. PROMPTLY REPAIR DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS AT NO EXTRA TO THE OWNER.
11. DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO DEMOLITION ITEMS INDICATED ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATE ITEMS WHICH INTERFERE WITH NEW CONSTRUCTION.
12. THE OWNER/DEVELOPER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING QUALITY CONTROL AT ALL TIMES DURING THE CONSTRUCTION PROCESS.
13. CONTACT OWNER IMMEDIATELY IF CONTAMINATED SOILS ARE ENCOUNTERED DURING CONSTRUCTION. CONTAMINATED SOILS MUST BE HAULED OFF-SITE AND PROPERLY DISPOSED.

EROSION CONTROL NOTES

1. SEE SHEET C501 FOR SOILS MAP AND SOIL CHARACTERISTICS.
2. SEE SHEET C502 FOR EROSION CONTROL DETAILS.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
4. ACCESS TO THE SITE SHALL BE RESTRICTED TO THE TO THE LOCATION AS SHOWN. NO OTHER SITE ACCESS IS AVAILABLE UNLESS THE CONTRACTOR OBTAINS APPROVAL FROM ADJACENT PROPERTY OWNER AND APPROVAL FROM THE CITY OF VINCENNES MS4 OPERATOR.
5. SEE EROSION CONTROL SEQUENCE AND IMPLEMENTATION NOTES ON SHEET C501.
6. EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED ONCE A WEEK AND AFTER EVERY RAINFALL EVENT. MAKE REPAIRS IMMEDIATELY.
7. THE SITE IS NOT LOCATED ON OR ADJACENT TO ANY FLOODWAY/FLOOD PLAIN AREAS.
8. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
9. AREAS THAT WILL BE DISTURBED FOR MORE THAN 15 DAYS SHALL BE STABILIZED IMMEDIATELY WITH TEMPORARY SEEDING. ALL DISTURBED YARD/GRASS AREAS MUST BE STABILIZED WITH PERMANENT SEEDING MEASURES.
10. SEE THIS SHEET FOR GENERAL SEEDING AND SURFACE STABILIZATION PROCEDURES.
11. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ADDITIONAL EROSION CONTROL MEASURES AT REQUEST OF LOCAL AND/OR STATE STORMWATER AND EROSION CONTROL INSPECTORS.
12. SPOILS TO BE REMOVED FROM SITE, CONTRACTOR TO DETERMINE LOCATION AND COORDINATE WITH THE LOCAL EROSION CONTROL AUTHORITY.
13. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
14. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORMWATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
15. WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORMWATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
16. PRIOR TO COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND BASINS TO DESIGNED GRADES.

SITE PLAN NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES IN THE VICINITY OF THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY FOR NOTIFICATION AND COORDINATION OF ALL CONSTRUCTION WITH RESPECTIVE UTILITY COMPANIES.
4. ALL CONSTRUCTION ACTIVITY ON THIS SITE IS TO BE PERFORMED IN COMPLIANCE WITH MOST CURRENT APPLICABLE OSHA STANDARDS FOR WORKER SAFETY.
5. ALL RADII AND STREET DIMENSIONS SHALL BE MEASURED TO FACE OF CURB OR FACE OF INTEGRAL CURB AND WALK. ALL DIMENSIONS TO THE BUILDING ARE TO THE OUTSIDE OF BUILDING FOUNDATION WALL.
6. EXISTING PAVEMENT TO BE SAW CUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING PAVEMENT.
7. THE EDGE OF THE EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
8. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH THE APPROPRIATE SEALANT ACCORDING TO MANUFACTURER'S DIRECTIONS.
9. ALL PARKING STRIPES ARE TO BE 4" WHITE PAINT. ADA PARKING AREAS AND ACCESS AISLES TO BE 4" BLUE PAINT.
10. BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
11. SEE ARCHITECTURAL PLANS FOR DETAILS OF BUILDINGS AND BUILDING DIMENSIONS.
12. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL STANDARDS, MUTCD AND INDOT SPECIFICATIONS.
13. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
14. CONTACT ENGINEER IF ADDITIONAL DIMENSIONS ARE NEEDED FOR CONSTRUCTION.
15. SEE STRUCTURAL PLANS FOR DETAILS OF CONCRETE STOOPS TO BE CONSTRUCTED OUTSIDE BUILDING AT ENTRY POINTS. ALL STOOPS TO BE 5'X5' UNLESS NOTED OTHERWISE.

UTILITY NOTES

1. RIM OR TOP OF CASTING ELEVATION EQUALS THE LOWEST POINT ON THE CASTING WHERE WATER ENTERS THE STRUCTURE OR THE TOP OF A SOLID CASTING.
2. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR END OF PIPE END SECTION.
3. WATER MAINS THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 60 INCHES OF COVER FROM FINISH GRADE TO TOP OF WATER LINE. CONTRACTOR TO PROVIDE ALL FITTINGS REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS.
4. ELECTRICAL CONDUIT SHALL BE INSTALLED AT A MINIMUM OF 36 INCHES BELOW THE FINISH GRADE. ENDS OF THE CONDUIT SHALL BE MARKED BY INSTALLING A 4X4 WOOD POST PAINTED RED.
5. LOCATIONS OF EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION.
6. ALL 6" SANITARY SEWER LATERALS ARE TO BE CONSTRUCTED WITH SDR-35 PVC @ 1.04% MINIMUM SLOPE UNLESS NOTED OTHERWISE. ALL 8" SANITARY SEWER MAINS SHALL BE CONSTRUCTED OF SDR-35 PVC @ 0.40% MINIMUM SLOPE.
7. TRACER WIRE IS REQUIRED ON ALL SANITARY SEWER LATERALS.
8. SEE CITY OF VINCENNES STANDARDS FOR WATER AND SEWER SPECIFICATIONS.
9. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION WITH LOCAL JURISDICTION AND ALL RESPECTIVE UTILITY COMPANIES FOR GAS, ELECTRIC, TELEPHONE, AND CABLE SERVICES.
10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING TRAFFIC CONTROL PER LOCAL STANDARDS AND REQUIREMENTS. ALL STREET CUTS SHALL BE REPAIRED PER LOCAL REQUIREMENTS.
11. SEE ARCHITECTURAL PLANS FOR DETAILED INFORMATION AND EXACT LOCATIONS FOR UTILITIES COMING INTO THE BUILDING.
12. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF DOWNSPOUTS AND ROOF DRAINS.
13. FOR VIEWING CLARITY OF THESE CONSTRUCTION PLANS, PIPES OR STRUCTURES MAY NOT BE SHOWN TO SCALE.
14. ALL UTILITY MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS FOR EACH UTILITY AGENCY HAVING JURISDICTION.
15. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAINS, 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 EXCEEDED OR THE CONTRACTOR SHALL PROVIDE APPROPRIATE BENDS AND CROSSINGS.
16. WATER AND SEWER MAIN CROSSINGS SHALL BE IN ACCORDANCE WITH 10 STATE STANDARDS. WATER AND SEWER MAINS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM EDGE OF PIPE TO EDGE OF PIPE. WATER PIPES CROSSING ABOVE SEWER PIPES MUST HAVE A MINIMUM VERTICAL SEPARATION OF 18 INCHES CLEARANCE BETWEEN PIPES.
17. THE CONTRACTOR SHALL CONTACT ENGINEER FOR ALL QUESTIONS REGARDING UTILITY PLAN DISCREPANCIES AND/OR CONFLICTS IN THE FIELD.

GRADING NOTES

1. ALL ELEVATIONS AT CONSTRUCTION LIMITS SHALL MATCH EXISTING GRADE.
2. TOPSOIL SHALL BE PLACED IN ALL LANDSCAPE AND YARD AREAS WITH A MINIMUM DEPTH OF 6".
3. MAINTAIN SITE DRAINAGE AT ALL TIMES DURING EARTHWORK OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE FACILITIES IF NECESSARY THROUGHOUT CONSTRUCTION.
4. CONTOURS SHOW GRADING INTENT. THE CONTRACTOR MUST USE PROPOSED SPOT GRADE ELEVATIONS AND PROFILES TO BUILD SITE. CONTACT ENGINEER IF ADDITIONAL SPOT GRADES ARE NEEDED FOR CONSTRUCTION.
5. PAVEMENT AREAS SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. FILL AREAS FOR PAVEMENTS ARE TO BE STRIPPED OF ALL TOPSOIL PRIOR TO PLACEMENT OF FILL.
6. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
7. SEE STORM SEWER PROFILES FOR STORM SEWER INVERT AND RIM ELEVATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THAT STAKED GRADES MATCH DESIGN ELEVATIONS AND POSITIVE DRAINAGE TO STORMWATER MANAGEMENT SYSTEM IS ACHIEVED. CONTACT ENGINEER IF DESIGN ELEVATIONS DO NOT PROVIDE POSITIVE DRAINAGE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EARTHWORK QUANTITIES AND INCLUDE ANY NECESSARY EXPORT OR IMPORT OF MATERIAL. IMPORT MATERIAL SHALL BE PRE-APPROVED BY THE ENGINEER/ARCHITECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE EXISTING CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK COSTS INCLUDING IMPORTS AND/OR EXORTS NECESSARY TO MAKE THE SITE BALANCE.
10. CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE AT NO COST TO OWNER.
11. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR AND CORRECT, IF ANY, STANDING WATER CONDITIONS AT NO COST TO OWNER.
12. CONTRACTOR TO PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER WITH ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.

RQAW
SITE / CIVIL

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

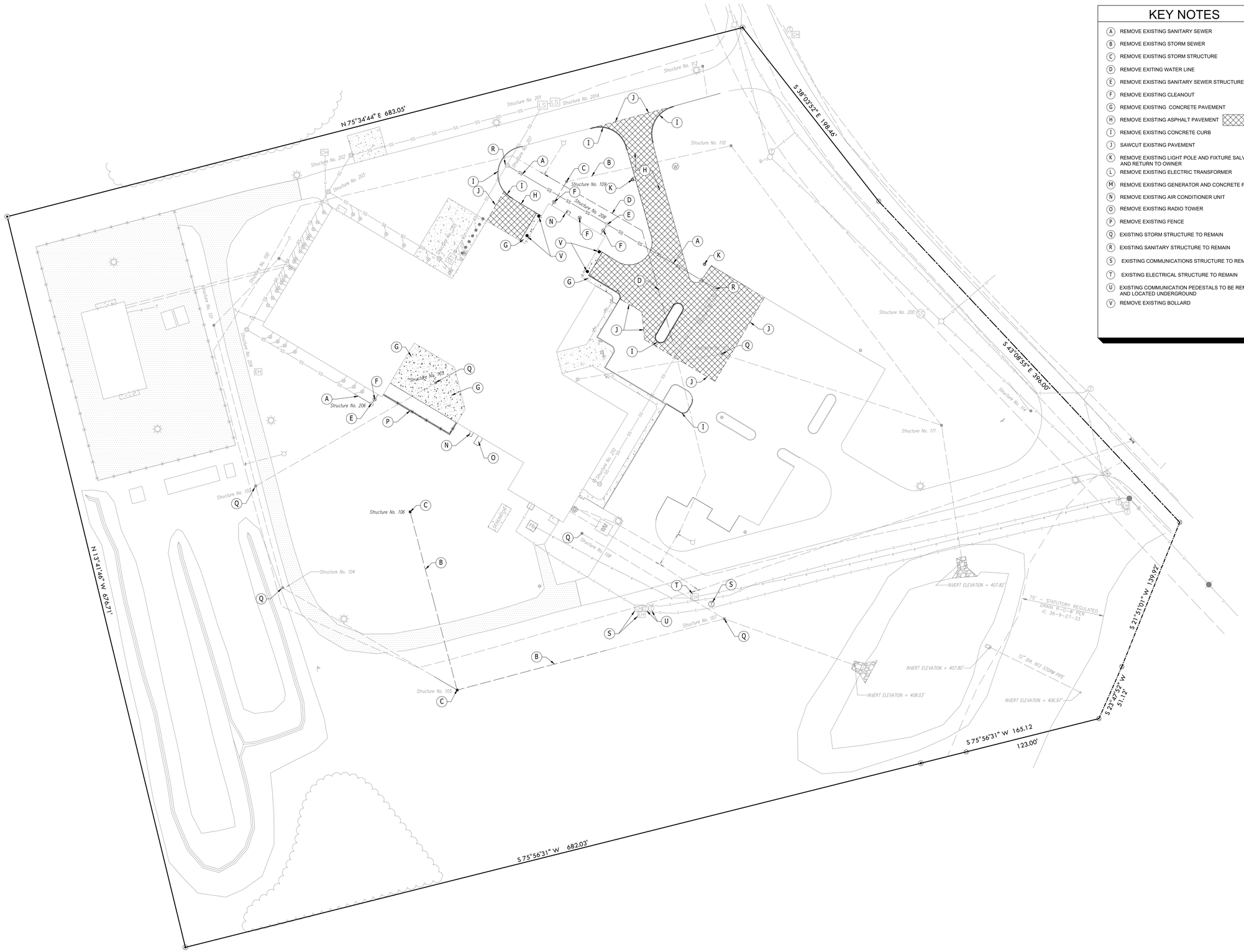
#	Revision	Date

Project #: 20-700-151-2
Designed By: MSO
Drawn By: JLB
Checked By: MSO
Date: 12/29/2021

NOT FOR CONSTRUCTION

GENERAL NOTES

C001



KEY NOTES

- (A) REMOVE EXISTING SANITARY SEWER
- (B) REMOVE EXISTING STORM SEWER
- (C) REMOVE EXISTING STORM STRUCTURE
- (D) REMOVE EXITING WATER LINE
- (E) REMOVE EXISTING SANITARY SEWER STRUCTURE
- (F) REMOVE EXISTING CLEANOUT
- (G) REMOVE EXISTING CONCRETE PAVEMENT
- (H) REMOVE EXISTING ASPHALT PAVEMENT
- (I) REMOVE EXISTING CONCRETE CURB
- (J) SAWCUT EXISTING PAVEMENT
- (K) REMOVE EXISTING LIGHT POLE AND FIXTURE SALVAGE AND RETURN TO OWNER
- (L) REMOVE EXISTING ELECTRIC TRANSFORMER
- (M) REMOVE EXISTING GENERATOR AND CONCRETE PAD
- (N) REMOVE EXISTING AIR CONDITIONER UNIT
- (O) REMOVE EXISTING RADIO TOWER
- (P) REMOVE EXISTING FENCE
- (Q) EXISTING STORM STRUCTURE TO REMAIN
- (R) EXISTING SANITARY STRUCTURE TO REMAIN
- (S) EXISTING COMMUNICATIONS STRUCTURE TO REMAIN
- (T) EXISTING ELECTRICAL STRUCTURE TO REMAIN
- (U) EXISTING COMMUNICATION PEDESTALS TO BE REMOVED AND LOCATED UNDERGROUND
- (V) REMOVE EXISTING BOLLARD

RQAW
SITE / CIVIL

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

Project #: 20-700-151-2

Designed By: MSO

Drawn By: JLB

Checked By: MSO

Date: 12/29/2021

NOT FOR CONSTRUCTION

1" = 40'

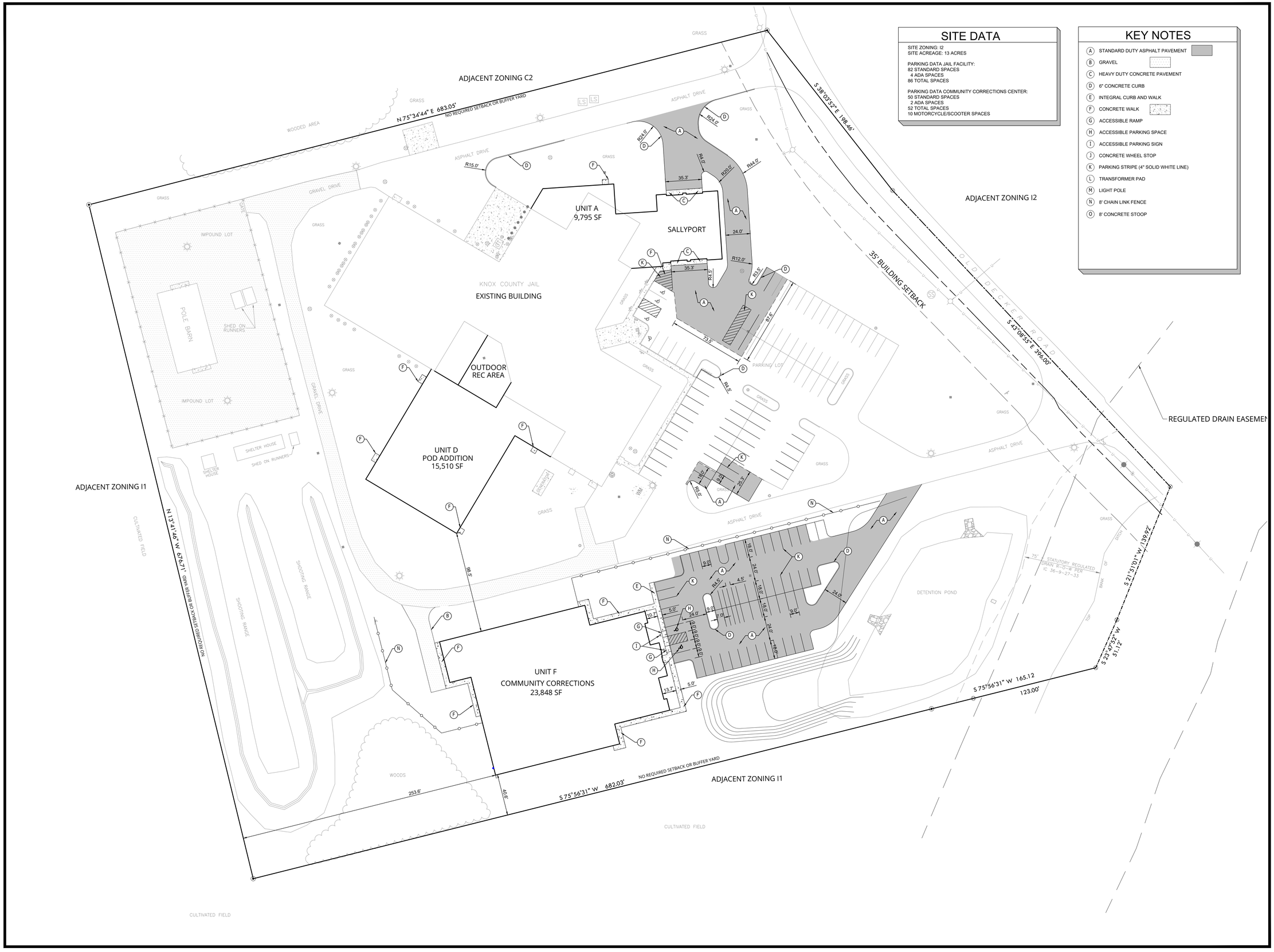
0 40' 80'

GRAPHIC SCALE

N

SITE DEMOLITION PLAN

C100



SITE DATA

SITE ZONING: I2
SITE ACREAGE: 13 ACRES

PARKING DATA JAIL FACILITY:
82 STANDARD SPACES
4 ADA SPACES
86 TOTAL SPACES

PARKING DATA COMMUNITY CORRECTIONS CENTER:
50 STANDARD SPACES
2 ADA SPACES
52 TOTAL SPACES
10 MOTORCYCLE/SCOOTER SPACES

KEY NOTES

- (A) STANDARD DUTY ASPHALT PAVEMENT
- (B) GRAVEL
- (C) HEAVY DUTY CONCRETE PAVEMENT
- (D) 6" CONCRETE CURB
- (E) INTEGRAL CURB AND WALK
- (F) CONCRETE WALK
- (G) ACCESSIBLE RAMP
- (H) ACCESSIBLE PARKING SPACE
- (I) ACCESSIBLE PARKING SIGN
- (J) CONCRETE WHEEL STOP
- (K) PARKING STRIPE (4" SOLID WHITE LINE)
- (L) TRANSFORMER PAD
- (M) LIGHT POLE
- (N) 8' CHAIN LINK FENCE
- (O) 8' CONCRETE STOOP

RQAW
SITE / CIVIL

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

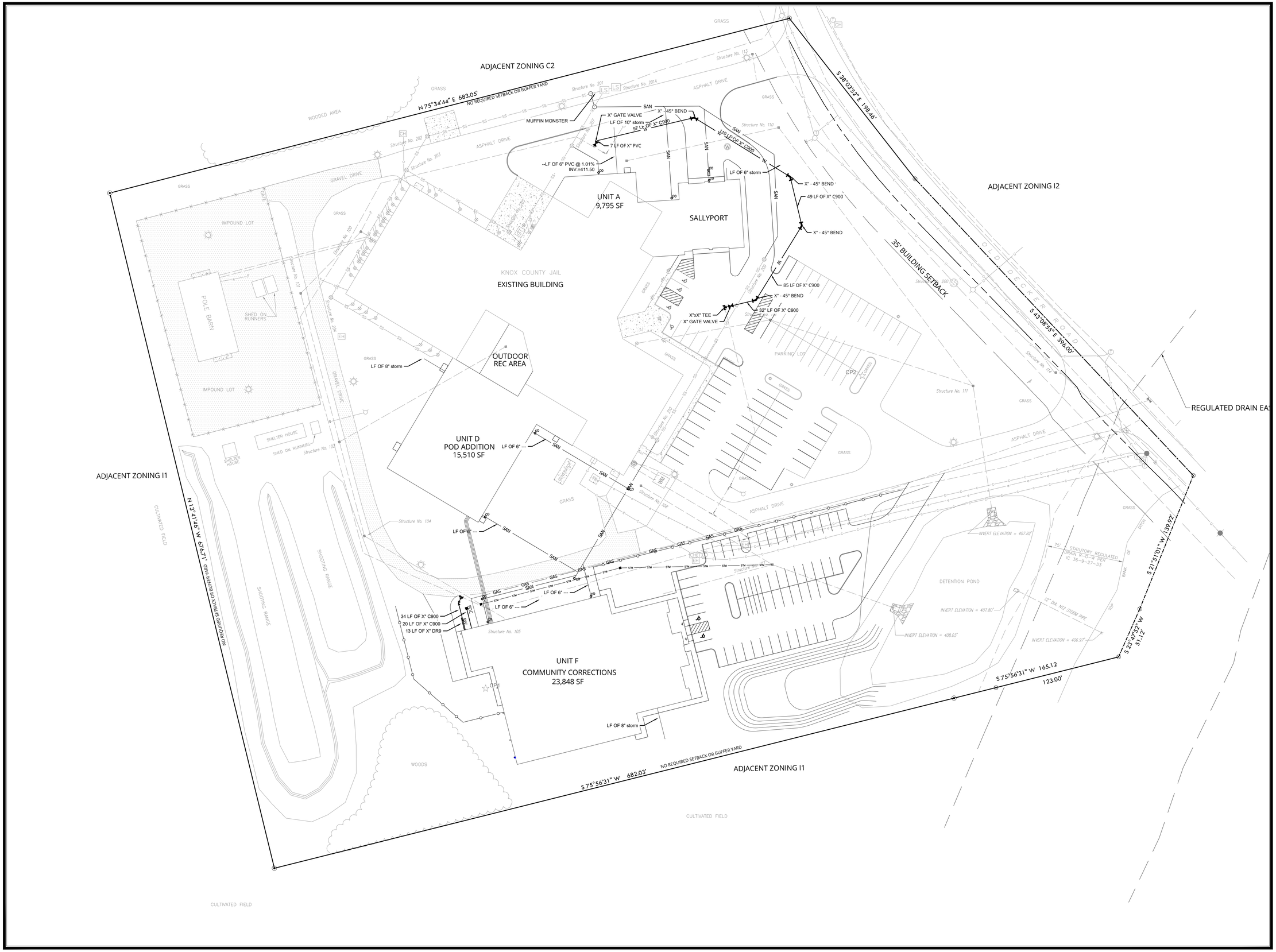
Project #: 20-700-151-2
Designed By: MSO
Drawn By: JLB
Checked By: MSO
Date: 12/29/2021

NOT FOR CONSTRUCTION

1" = 40'
0 40' 80'
GRAPHIC SCALE
N

SITE LAYOUT PLAN

C200



RQAW
SITE / CIVIL

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

Project #: 20-700-151-2
Designed By: MSO
Drawn By: JLB
Checked By: MSO
Date: 12/29/2021

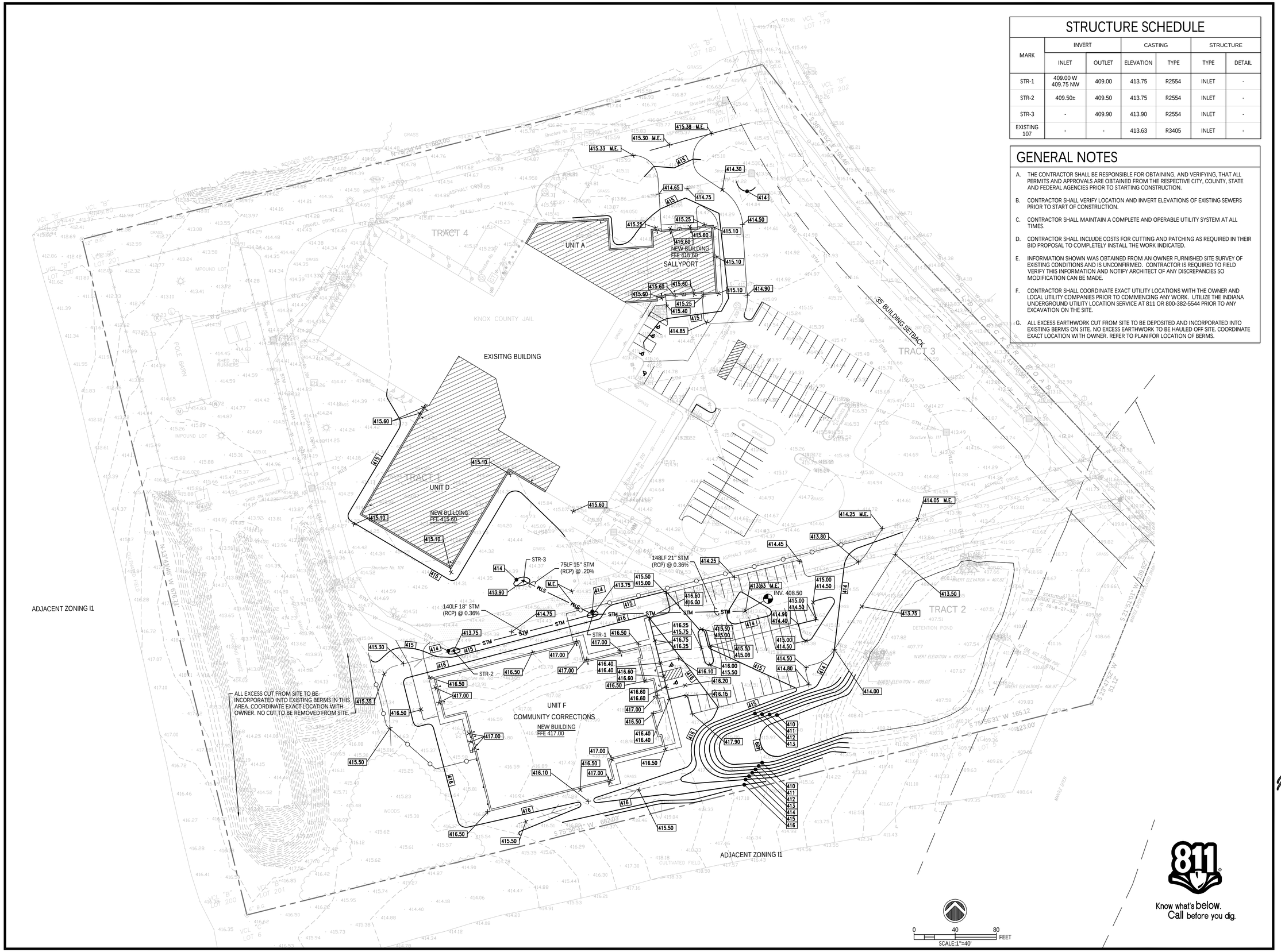
NOT FOR CONSTRUCTION

1" = 40'
0 40' 80'
GRAPHIC SCALE

N

SITE UTILITY PLAN

C300



STRUCTURE SCHEDULE

MARK	INVERT		CASTING		STRUCTURE	
	INLET	OUTLET	ELEVATION	TYPE	TYPE	DETAIL
STR-1	409.00 W 409.75 NW	409.00	413.75	R2554	INLET	-
STR-2	409.50±	409.50	413.75	R2554	INLET	-
STR-3	-	409.90	413.90	R2554	INLET	-
EXISTING 107	-	-	413.63	R3405	INLET	-

GENERAL NOTES

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, STATE AND FEDERAL AGENCIES PRIOR TO STARTING CONSTRUCTION.

B. CONTRACTOR SHALL VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING SEWERS PRIOR TO START OF CONSTRUCTION.

C. CONTRACTOR SHALL MAINTAIN A COMPLETE AND OPERABLE UTILITY SYSTEM AT ALL TIMES.

D. CONTRACTOR SHALL INCLUDE COSTS FOR CUTTING AND PATCHING AS REQUIRED IN THEIR BID PROPOSAL TO COMPLETELY INSTALL THE WORK INDICATED.

E. INFORMATION SHOWN WAS OBTAINED FROM AN OWNER FURNISHED SITE SURVEY OF EXISTING CONDITIONS AND IS UNCONFIRMED. CONTRACTOR IS REQUIRED TO FIELD VERIFY THIS INFORMATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES SO MODIFICATION CAN BE MADE.

F. CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE OWNER AND LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. UTILIZE THE INDIANA UNDERGROUND UTILITY LOCATION SERVICE AT 811 OR 800-382-5544 PRIOR TO ANY EXCAVATION ON THE SITE.

G. ALL EXCESS EARTHWORK CUT FROM SITE TO BE DEPOSITED AND INCORPORATED INTO EXISTING BERMS ON SITE. NO EXCESS EARTHWORK TO BE HAULED OFF SITE. COORDINATE EXACT LOCATION WITH OWNER. REFER TO PLAN FOR LOCATION OF BERMS.

Know what's below.
Call before you dig.

RQAW
SITE / CIVIL

BID SET

KNOX COUNTY JAIL

2375 S OLD DECKER RD.
VINCENNES, IN 47591

Project #: 20-700-151-2
Designed By: NBV
Drawn By: JLB
Checked By: NBV
Date: 01/28/2022

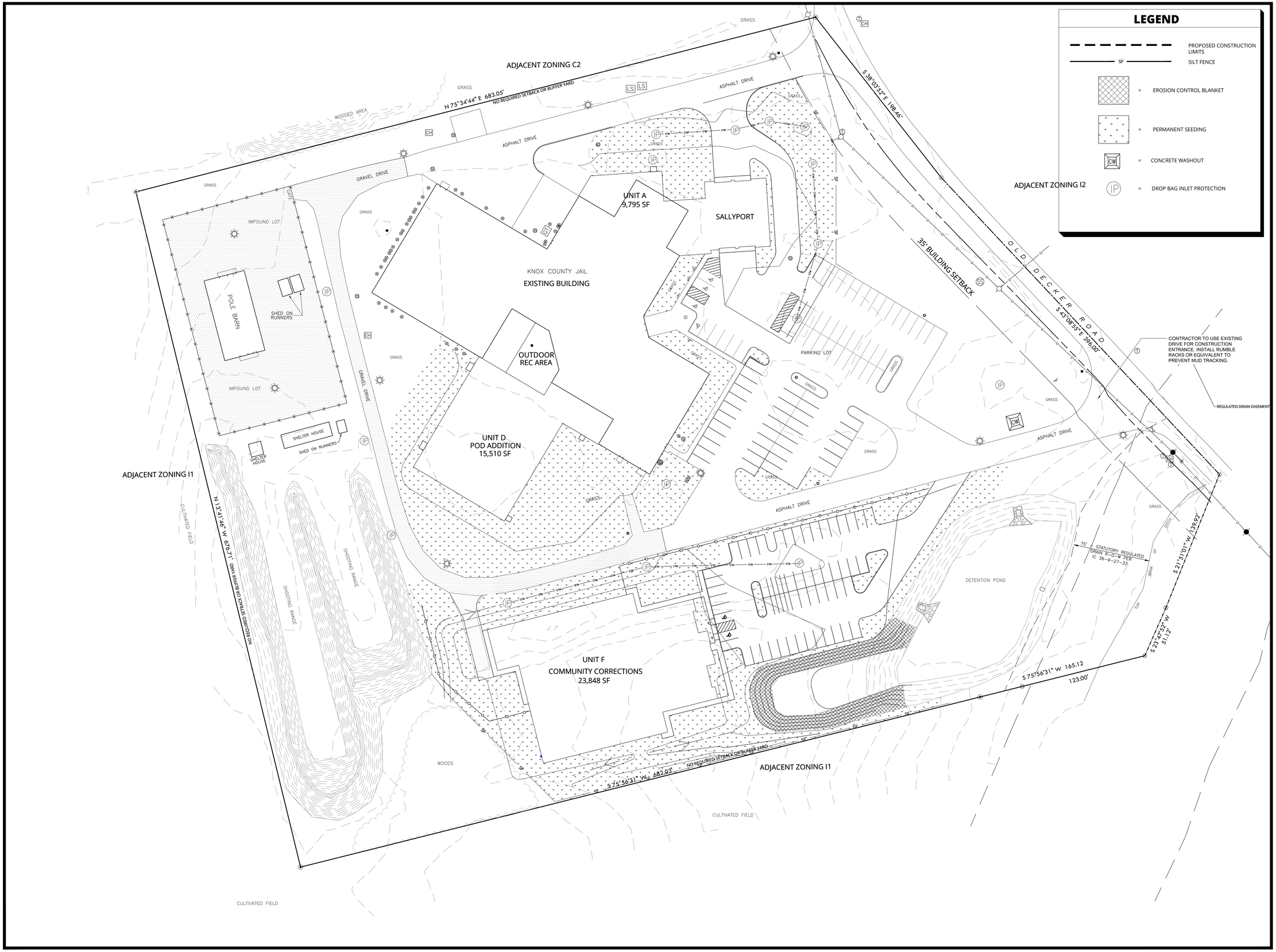
NICHOLAS BIJAN VERGATOS
REGISTERED
No. PE11500269
STATE OF INDIANA
PROFESSIONAL ENGINEER

Nicholas Bijan Vergatos

SITE GRADING & DRAINAGE PLAN

C400

JPS Consulting Engineers - K:\Civil Projects\21JPSC46 Knox County Jail\Drawings\C400.dwg January 28, 2022 - 1:35 PM Nvergatos



RQAW
SITE / CIVIL

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

Project #: 20-700-151-2

Designed By: MSO

Drawn By: JLB

Checked By: MSO

Date: 12/29/2021

NOT FOR CONSTRUCTION

1" = 40'

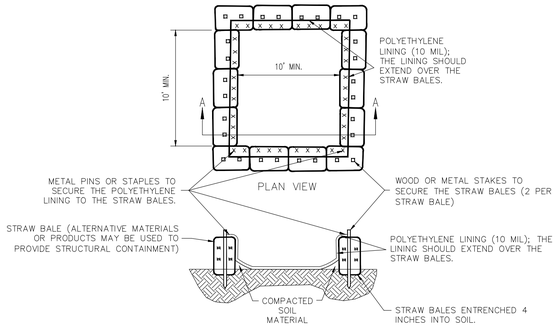
0 40' 80'

GRAPHIC SCALE

N

EROSION CONTROL PLAN

C500



CONCRETE WASHOUT (ABOVE GRADE)

INSTALLATION:

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS:

1. INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

DESIGNED AND INSTALLED SYSTEMS:

2. UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
3. DEPENDENT UPON THE TYPE OF SYSTEM, EITHER EXCAVATE THE PIT OR INSTALL THE CONTAINMENT SYSTEM.
4. A BASE SHALL BE CONSTRUCTED AND PREPARED THAT IS FREE OF ROCKS AND OTHER DEBRIS THAT MAY CAUSE TEARS OR PUNCTURES IN THE POLYETHYLENE LINING.
5. INSTALL THE POLYETHYLENE LINING. FOR EXCAVATED SYSTEMS, THE LINING SHOULD EXTEND OVER THE ENTIRE EXCAVATION. THE LINING FOR BERMED SYSTEMS SHOULD BE INSTALLED OVER THE POOLING AREA WITH ENOUGH MATERIAL TO EXTEND THE LINING OVER THE BERM OR CONTAINMENT SYSTEM. THE LINING SHOULD BE SECURED WITH PINS, STAPLES, OR OTHER FASTENERS.
6. PLACE FLAGS, SAFETY FENCING, OR EQUIVALENT TO PROVIDE A BARRIER TO CONSTRUCTION EQUIPMENT AND OTHER TRAFFIC.
7. PLACE A NON-COLLAPSING, NON-WATER HOLDING COVER OVER THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
8. INSTALL SIGNAGE THAT IDENTIFIES CONCRETE WASHOUT AREAS.
9. POST SIGNS DIRECTING CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
10. WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

MAINTENANCE:

11. INSPECT DAILY AND AFTER EACH STORM EVENT.
12. INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
13. INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
14. INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
15. ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
16. EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE. PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
17. UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE. REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
18. DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE, OR HAUL THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
19. THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING; THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
20. THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
21. CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NOT EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FURTHER DEWATERING.
22. PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
23. INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
24. WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
25. HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

CONCRETE WASHOUT DETAIL

NOT TO SCALE

SILT FENCE

LOCATION

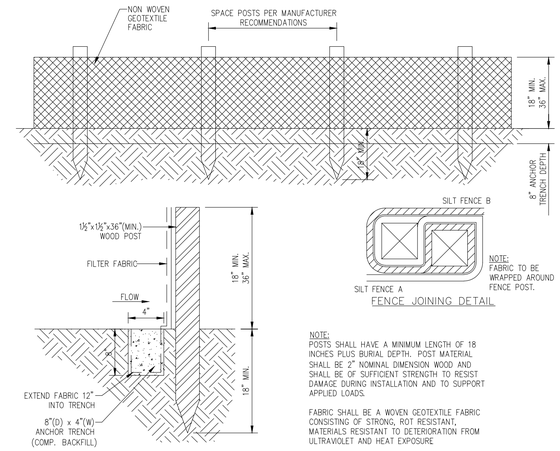
- INSTALLED PARALLEL TO THE SLOPE CONTOUR
- MINIMUM 10 FEET BEYOND THE TOE OF SLOPE TO PROVIDE A BROAD, SHALLOW SEDIMENT POOL.
- ACCESSIBLE FOR MAINTENANCE (REMOVAL OF SEDIMENT AND SILT FENCE REPAIR)

INSTALLATION

1. LAYOUT THE LOCATION OF THE FENCE SO THAT IT IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SUCH THAT THE POINT OF CONTACT BETWEEN THE GROUND AND THE BOTTOM OF THE FENCE END TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.
2. EXCAVATE AN EIGHT-INCH DEEP BY FOUR-INCH WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE LINE. INSTALLATION BY PLOWING IS ALSO ACCEPTABLE.
3. INSTALL THE SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP-SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN-SLOPE SIDE OF THE TRENCH.
4. DRIVE THE SUPPORT POSTS AT LEAST 18 INCHES INTO THE GROUND, TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12 INCHES OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH. (IF IT IS NECESSARY TO JOIN THE ENDS OF THE TWO FENCE, USE THE WRAP JOINT METHOD SHOWN.)
5. LAY THE LOWER FOUR INCHES OF FILTER FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP-SLOPE SIDE OF THE TRENCH.
6. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.

MAINTENANCE

- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- IF FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. NOTE: ALL REPAIRS SHOULD MEET SPECIFICATIONS AS OUTLINED WITHIN THIS MEASURE.
- REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE FILTER FABRIC TO BULGE OR WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA, AND STABILIZE.



NOTE:
POSTS SHALL HAVE A MINIMUM LENGTH OF 18 INCHES PLUS BURIAL DEPTH. POST MATERIAL SHALL BE 2" NOMINAL DIMENSION WOOD AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION AND TO SUPPORT APPLIED LOADS.

FABRIC SHALL BE A WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE

SILT FENCE DETAIL

NOT TO SCALE

SEEDING SPECIFICATIONS
SEEDBED PREPARATION

- GRADE AND APPLY SOIL AMENDMENTS.

SEEDING FREQUENCY

- SEED ROUGH GRADED AREAS DAILY WHILE SOIL IS STILL LOOSE AND MOIST.

DENSITY OF VEGETATIVE COVER

- EIGHTY PERCENT OR GREATER OVER THE SOIL SURFACE.

MATERIALS

- SOIL AMENDMENTS – SELECT MATERIALS AND RATES AS DETERMINED BY A SOIL TEST (CONTACT YOUR COUNTY SOIL AND WATER CONSERVATION DISTRICT OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE AND SOIL INFORMATION, INCLUDING AVAILABLE SOIL TESTING SERVICES) OR 400 TO 600 POUNDS OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT. CONSIDER THE USE OF REDUCED PHOSPHOROUS APPLICATION WHERE SOIL TESTS INDICATE ADEQUATE PHOSPHOROUS LEVELS IN THE SOIL PROFILE.
- SEED – SELECT APPROPRIATE PLANT SPECIES SEED OR SEED MIXTURES ON THE BASIS OF QUICK GERMINATION, GROWTH, AND TIME OF YEAR TO BE SEEDED (SEE TABLE 1).
- MULCH – STRAW, HAY, WOOD FIBER, ETC. (TO PROTECT SEEDBED, RETAIN MOISTURE, AND ENCOURAGE PLANT GROWTH). ANCHORED TO PREVENT REMOVAL BY WIND OR WATER OR COVERED WITH MANUFACTURED EROSION CONTROL BLANKETS.

TABLE 1. SLOPE STEEPNESS RESTRICTIONS

SEED SPECIES*	RATE PER ACRE	PLANTING DEPTH	OPTIMUM DATES**
WHEAT OR RYE	150 LBS.	1 TO 1-1/2 INCHES	SEPT. 15–OCT. 30
SPRING OATS	100 LBS.	1 INCH	MARCH 1–APRIL 15
ANNUAL RYEGRASS	40 LBS.	1/4 INCH	MARCH 1–MAY 1 AUG. 1–SEPT. 1
GERMAN MILLET	40 LBS.	1 TO 2 INCHES	MAY 1–JUNE 1
SUDANGRASS	35 LBS.	1 TO 2 INCHES	MAY 1–JULY 30
BUCKWHEAT	60 LBS.	1 TO 2 INCHES	APRIL 15–JUNE 1
CORN (BROADCAST)	300 LBS.	1 TO 2 INCHES	MAY 11–AUG. 10
SORGHUM	35 LBS.	1 TO 2 INCHES	MAY 1–JULY 15

*PERENNIAL SPECIES MAY BE USED AS A TEMPORARY COVER, ESPECIALLY IF THE AREA TO BE SEEDED WILL REMAIN IDLE FOR MORE THAN ONE YEAR.
**SEEDING DONE OUTSIDE THE OPTIMUM SEEDING DATES INCREASES THE CHANCES OF SEEDING FAILURE. DATES MAY BE EXTENDED OR SHORTENED BASED ON THE LOCATION OF THE PROJECT WITHIN THE STATE.

NOTES:
MULCH ALONE IS AN ACCEPTABLE TEMPORARY COVER AND MAY BE USED IN LIEU OF TEMPORARY SEEDING, PROVIDED THAT IT IS APPROPRIATELY ANCHORED.

A HIGH POTENTIAL FOR FERTILIZER, SEED, AND MULCH TO WASH EXISTS ON STEEP BANKS, CUTS, AND IN CHANNELS AND AREAS OF CONCENTRATED FLOW.

SEEDING APPLICATION
SEEDBED PREPARATION

1. TEST SOIL TO DETERMINE pH AND NUTRIENT LEVELS.
2. APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST. IF TESTING IS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.
3. WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL WITH A DISK OR RAKE OPERATED ACROSS THE SLOPE.

SEEDING

1. SELECT A SEED SPECIES OR AN APPROPRIATE SEED MIXTURE AND APPLICATION RATE FROM TABLE 1.
2. APPLY SEED UNIFORMLY WITH A DRILL OR CULTIPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER SEED TO THE DEPTH SHOWN IN TABLE 1.

   NOTES:
   1. IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED-TO-SOIL CONTACT BY FIRMING THE SEEDBED WITH A ROLLER OR CULTIPACKER AFTER COMPLETING SEED OPERATIONS.
   2. DAILY SEEDING WHEN THE SOIL IS MOIST IS USUALLY MOST EFFECTIVE.
   3. IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.
3. APPLY MULCH AND ANCHOR IT IN PLACE.

SEEDING MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
- MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (80 PERCENT DENSITY); RESEED, FERTILIZE, AND APPLY MULCH WHERE NECESSARY.
- IF NITROGEN DEFICIENCY IS APPARENT, TOP-DRESS FALL SEEDED WHEAT OR RYE SEEDING WITH 50 POUNDS PER ACRE OF NITROGEN IN FEBRUARY OR MARCH.

MULCH SPECIFICATIONS
MATERIALS

TABLE 1. SLOPE STEEPNESS RESTRICTIONS

MATERIAL*	RATE PER ACRE	COMMENTS
STRAW OR HAY	2 TONS	SHOULD BE DRY, FREE OF UNDESIRABLE SEEDS. SPREAD BY HAND OR MACHINE. MUST BE CRIMPED OR ANCHORED (SEE TABLE 2).
WOOD FIBER OR CELLULOSE	1 TON	APPLY WITH A HYDRAULIC MULCH MACHINE AND USE WITH TACKING AGENT.

*MULCHING IS NOT RECOMMENDED IN CONCENTRATED FLOWS. CONSIDER EROSION CONTROL BLANKETS OR OTHER STABILIZATION METHODS.

COVERAGE

- THE MULCH SHOULD HAVE A UNIFORM DENSITY OF AT LEAST 75 PERCENT OVER THE SOIL SURFACE.

ANCHORING
TABLE 2. MULCH ANCHORING METHODS

ANCHORING METHOD*	HOW TO APPLY
MULCH ANCHORING TOOL OR FARM DISK (DULL, SERRATED, AND BLADES SET STRAIGHT)	CRIMP OR PUNCH THE STRAW OR HAY TWO TO FOUR INCHES INTO THE SOIL. OPERATE MACHINERY ON THE CONTOUR OF THE SLOPE.
CLEATING WITH DOZER TRACKS	OPERATE DOZER UP AND DOWN SLOPE TO PREVENT FORMATION OF RILLS BY DOZER CLEATS.
WOOD HYDROMULCH FIBERS	APPLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
SYNTHETIC TACKIFIERS, BINDERS, OR SOIL STABILIZERS	APPLY ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
NETTING (SYNTHETIC OR BIODEGRADABLE MATERIAL)	INSTALL NETTING IMMEDIATELY AFTER APPLYING MULCH. ANCHOR NETTING WITH STAPLES. EDGES OF NETTING STRIPS SHOULD OVERLAP WITH EACH UP-SLOPE STRIP OVERLAPPING FOUR TO SIX INCHES OVER THE ADJACENT DOWN-SLOPE STRIP. BEST SUITED TO SLOPE APPLICATIONS. IN MOST INSTANCES, INSTALLATION DETAILS ARE SITE SPECIFIC, SO MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED.

*ALL FORMS OF MULCH MUST BE ANCHORED TO PREVENT DISPLACEMENT BY WIND AND/OR WATER.

MULCH APPLICATION

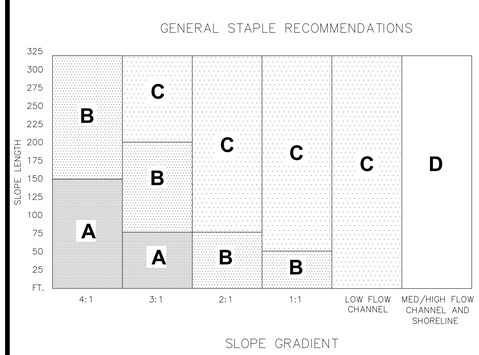
1. APPLY MULCH AT THE RECOMMENDED RATE SHOWN IN TABLE 1.
2. SPREAD THE MULCH MATERIAL UNIFORMLY BY HAND, HAYFORK, MULCH BLOWER, OR HYDRAULIC MULCH MACHINE. AFTER SPREADING, NO MORE THAN 25 PERCENT OF THE GROUND SHOULD BE VISIBLE.
3. ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION. THE MULCH CAN BE ANCHORED USING ONE OF THE METHODS LISTED BELOW:
   a. CRIMP WITH A MULCH ANCHORING TOOL, A WEIGHTED FARM DISK WITH DULL SERRATED BLADES SET STRAIGHT, OR TRACK CLEATS OF A BULLDOZER,
   b. APPLY HYDRAULIC MULCH WITH SHORT CELLULOSE FIBERS,
   c. APPLY A LIQUID TACKIFIER, OR
   d. COVER WITH NETTING SECURED BY STAPLES.

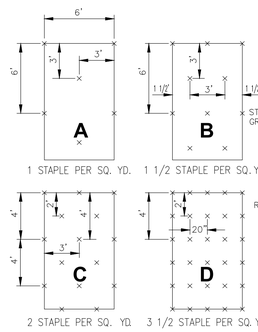
MULCH MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR MOVEMENT OF MULCH; REPAIR DAMAGED AREAS, RESEED, APPLY NEW MULCH AND ANCHOR THE MULCH IN PLACE.
- CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- IF EROSION IS SEVER OR RECURRING, USE EROSION CONTROL BLANKETS OR OTHER MORE SUBSTANTIAL STABILIZATION METHODS TO PROTECT THE AREA.

TEMPORARY SEEDING

NOT TO SCALE

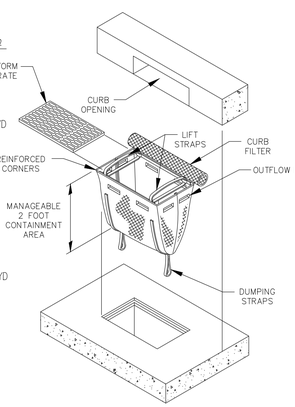




NOTE:
1. CHANNEL LINING UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.
2. STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL
3. AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED

EROSION CONTROL MAT INSTALLATION GUIDE DETAIL

NOT TO SCALE



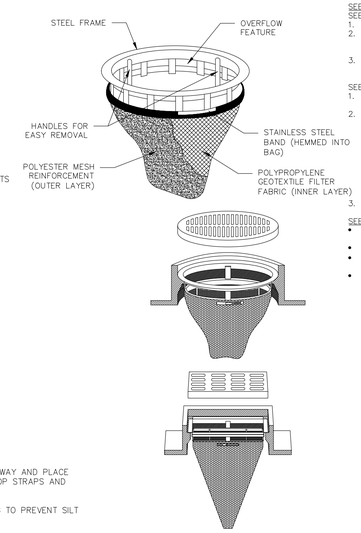
INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION:

1. REMOVE THE GRATE FROM THE CATCH BASIN.
2. IF USING OPTION OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN UNIT.
3. STAND THE GRATE ON END, MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY SACK SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS.
4. HOLDING THE LIDTING DEVICES, INSTER THE GRATE INTO THE INLET.
5. MAKE SURE THE CYLINDRICAL PORTION IS UP AGAINST THE CURB OPENING TO PREVENT SILT AND DEBRIS FROM ENTERING THE INLET.

MAINTENANCE:

- INSPECT DAILY.
- REMOVE ALL ACCUMULATED SEDIMENT AFTER EACH STORM EVENT. DISPOSE OF SEDIMENT IN AN AREA WHERE IT WILL NOT REENTER THE PAVED AREA OR STORM DRAINS. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET BY USING THE LIFTING STRAPS AND REMOVE THE GRATE.
- WHEN CONTRIBUTING DRAINAGE AREA HAD BEEN STABILIZED, REMOVE INLET PROTECTION.



NOTE: CONTRACTOR TO USE FLEXSTORM CATCH-IT INLET PROTECTOR, DANDY BAG OR APPROVED ALTERNATE.

DROP BAG INLET PROTECTION

NOT TO SCALE

RQAW
SITE / CIVIL

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

#	Revision	Date

Project #: 20-700-151-2
Designed By: MSO
Drawn By: JLB
Checked By: MSO
Date: 12/29/2021

NOT FOR CONSTRUCTION

EROSION CONTROL DETAILS

C501

SITE NAME

The area scheduled for construction is known as "Knox County Jail" (hereinafter referred to as the "Project")

PROJECT LOCATION

The property is located approximately 0.35 miles north and 0.4 miles west of the intersection of E. Elkhorn Rd and S Decker Rd in Vincennes, Indiana, at a latitude of 38°38'27.50" N and a longitude of 87°31'34.52" W.

OWNER'S INFORMATION

Name: Knox County Commissioners
Address: 111 North 7th Street, Vincennes, IN 47591
Contact: Trent Hinkle
Title: Commissioner
Telephone: 812-890-2623
Email: tahinkle@knoxcounty.in.gov

OPERATOR'S INFORMATION

Name: Knox County Jail
Address: 2375 S. Old Decker Road, Vincennes, IN 47591
Contact: Doug Vantlin
Title: Sheriff
Telephone: 812-882-7660
Email: dougvantlin@gmail.com

NOTICE OF INTENT

All parties defined as owners must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an owner is defined as any party meeting either of the following requirements:

1) The party has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications.

2) The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.

A2 11" x 17" PLAT

Refer to the Site Layout Plan.

A3 PROJECT NARRATIVE

The project consists of the construction of a XXX,XXX square foot (type) building, asphalt parking lots and drives, and (other items?). An existing detention pond is located on site to limit the runoff release rate.

A4 VICINITY MAP

Refer to the Cover Sheet

A5 LEGAL DESCRIPTION OF THE PROJECT SITE

Section: Division B
Township: 99
Range: 99

A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS

The site is not subdivided into lots; therefore, all proposed site improvements are shown on the included plans.

A7 HYDROLOGIC UNIT CODE (HUC)

05120113020020

A8 STATE AND FEDERAL WATER QUALITY PERMITS

Indiana Department of Environmental Management (IDEM) Rule 5

A9 SPECIFIC POINTS WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE

Stormwater drainage from the site will be conveyed via sheet flow, storm sewer, and vegetated swales to an on-site dry detention basin that discharges to an unnamed ditch.

A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE

No wetlands, lakes, or watercourses have been identified on or adjacent to the site.

A 11 IDENTIFICATION OF ALL RECEIVING WATERS

The Wabash River is the ultimate receiving water for this project.

A12 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUNDWATER

There are no locations on site where surface water may be discharged into groundwater.

A13 100 YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES

The project site is located within Zone B as indicated on the Knox County, IN (Unincorporated Areas) Flood Insurance Rate Map 1804220150C dated February 15, 1985.

A14 PRE-CONSTRUCTION AND POST CONSTRUCTION ESTIMATE OF PEAK DISCHARGE

Pre-Construction 10-year discharge = XX.X cfs
Post-Construction 10-year discharge = XX.X cfs

A15 ADJACENT LAND USE

North: Commercial/ Industrial
South: Agriculture
East: Agriculture (Future Industrial)
West: Agriculture/Single Family Residential

A16 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS

Approximate boundaries of disturbed areas are as identified on the Erosion Control Plan.

A17 IDENTIFICATION OF EXISTING VEGETATIVE COVER

Approximate areas of existing vegetative cover are as shown on the Existing Conditions Plan or Topographic Survey.

A18 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS

The Natural Resources Conservation Service (NRCS) Web Soil Survey of Knox County, Indiana indicates (Brookston silty clay loam (Br),Crosby silt loam (CrA), and Miami silt loam (MmB2)) are located on the site.

The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction.

A19 LOCATIONS, SIZE, AND DIMENSIONS FOR THE PROPSOED STORMWATER SYSTEMS

Locations of stormwater systems: Refer to the Site Utility Plan
Size of storm sewers: Refer to the Site Utility Plan or Storm Sewer Profiles
Details of storm inlets and manholes: Refer to the Construction Details

A20 PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT

No offsite work will be performed for this project.

A21 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL

Excess soil shall be immediately stockpiled, surrounded with silt fence, and seeded and/or removed from the project site in accordance with all applicable laws. If topsoil stockpiles are anticipated for this project, they are shown on the Erosion Control Plan.

A22 EXISTING SITE TOPOGRAPHY

Refer to the Existing Conditions Plan or Topographic Survey

A23 PROPOSED FINAL SITE TOPOGRAPHY

Refer to the Site Grading Plan

B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

The following potential pollutant sources may be associated with construction activities on site:
1. Material storage areas
2. Construction waste material
3. Fuel storage areas and fueling stations
4. Exposed soils
5. Leaking vehicles and equipment
6. Sanitary waste from temporary toilet facilities
7. Litter
8. Windblown dust
9. Soil tracking off site from construction equipment

The following materials may be staged or stored on site at various points during construction:
1. Structural fill
2. Pavement base stone
3. HDPE, PVC, RCP, or Ductile Iron Pipe
4. Precast concrete, HDPE, or PVC drainage and sanitary structures
5. Riprap

B2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES

Pre-construction Activity
1. The exact locations of all existing utilities within the project limits are to verified prior to construction.
2. Schedule pre-construction meeting with local stormwater authority 48 hours prior to start of construction.
3. Install protection fencing for existing trees to remain in place within the project limits

Construction Site Access
1. Install gravel construction entrance
2. Post the NOI and contact information at the construction entrance. NOI to remain posted for duration of the project.
3. Install construction staging pads, fueling station, material storage areas, concrete washout, construction parking areas, and stabilize construction routes

Perimeter Controls
1. Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed.

Initial Land Clearing and Grading Activities
1. Add protection measures to existing inlets.
2. Strip the topsoil and stabilize the topsoil stockpile.

Secondary Land Grading Activities
1. Begin site grading/construction of detention basins (if applicable) and stabilize any soil stockpiles that will be left dormant for more than 10 days.
2. Complete the cut and fills on the site. Final grade and seed the pond slopes (if applicable). Stabilize slopes with erosion control blanket.
3. Install storm sewer system and install inlet protection immediately upon complete of the inlet and install rip-rap outlet protection prior to installing outlets.

Surface Stabilization
1. Apply temporary seeding and stabilize slopes in areas where rough grading has been completed.
2. Apply permanent seeding and stabilize slopes in areas where final grading has been completed.

Building Construction
1. Prior to building construction install stone surface for paved areas.
2. Building pads left dormant for more than 10 days, must be temporarily seeded.
3. Start building construction. Install staging area for building materials and stabilize.

Final Shaping/Landscaping
1. Utilize topsoil salvage in applicable areas and apply permanent seeding.
2. Apply permanent seeding around the perimeter of the site.
3. Complete utility installation, curbs, paving, and building construction.
4. Install landscaping plant material and stabilize all disturbed areas.
5. Remove all erosion and sediment control practices when areas have a uniform grass cover.

B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS

Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the Erosion Control Plan. Refer to the Erosion Control Details for details.

B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS

Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 4:1 (horizontal to vertical). Silt fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS

Proposed swales will be stabilized with erosion control blankets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS

The contractor shall install appropriate inlet protection measures at each inlet. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. Straw bales will not be allowed as inlet protection measures. These inlet protection measures should be installed as soon as the inlets are installed or shortly thereafter.

B7 RUNOFF CONTROL MEASURES

N/A

B8 STORMWATER OUTLET PROTECTION MEASURES

Riprap aprons will be used at the detention pond outlet to prevent erosion.

B9 GRADE STABILIZATION STRUCTURE LOCATIONS

N/A

B10 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE

Refer to the Erosion Control Plan for locations of each stormwater quality measure and the Erosion Control Details and Site Construction Details.

B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON

Surface stabilization is required on any bare or thinly vegetated areas that is scheduled or likely to remain inactive for a period of 10 days or more. Refer to the Temporary Seeding Detail within the Erosion Control Details for specifics on soil amendments, seed mixtures, and mulching. The surface stabilization for the lots needs to be established as soon as possible to prevent dirt wash-out into the streets. If this is not possible, then silt fencing will need to be installed along the back of curbs.

B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS

1.) Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost, or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 square feet of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.
2.) Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 square feet of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight.
3.) Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent.
4.) Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations. Sow seed using a spreader of seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.
5.) Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
6.) Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.
7.) Install erosion control blankets as indicated on the Erosion Control Plan.
8.) Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of speeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas.
9.) Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation.
10.) Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.

B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN

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

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

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

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

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

Dust Control/Off-Site Vehicle Tracking
During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should stabilized to reduce dust.

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

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

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

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

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

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

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

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

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

Spill Response Plan
Minor - Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc. can be controlled by the first responder at the discovery of the spill.
- Contain spill to prevent material from entering storm or groundwater. Do not flush with water or bury.
- Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.

Semi-Significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
- Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if the spill could be a safety issue
- Contact supervisors and designated site inspectors, including MS4 personnel, immediately.
- Contaminated solids are to be removed to an approved landfill.

Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution.
- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system
- Immediately contact the local Fire Department at 911 to report any hazardous material spill.
- Contact supervisors and designated site inspectors immediately. Governing authorities, including MS4 personnel, responsible for stormwater facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
- As soon as possible but within 2 hours of discovery, contact the local agency responsible for spill management. The following information should be noted for future reports to the agency:
  - Name, address and phone number of person making the spill report
  - The location of the spill
  - The time of the spill
  - Identification of the spilled substance
  - Approximate quantity of the substance that has been spilled or may be further spilled
  - The duration and source of the spill
  - Name and location of the damaged waters
  - Name of spill response organization
  - What measures were taken in the spill response
  - Other information that may be significant

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

B14 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE

Inspection Schedule/Reporting
All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g. site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month.

Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.

Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify and incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local governing authority.

Construction Entrance
Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.

Material Storage Inspections
Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely b the subject project are considered to be part of the project and must be included in the erosion control plans and site inspection reports.

Soil Stabilization Inspections
Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.

Erosion and Sediment Control Inspections
All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls:
1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored.
2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.
3. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.
4. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence.
5. Stabilized Construction Entrance: Periodic re-grading and top dressing with additional stone.
6. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
7. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.

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

Modifications/Revisions to SWPPP
Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven (7) calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven (7) calendar days of the inspection.

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

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

All permittees must submit an NOT within thirty (30) days after one or more of the following conditions have been met:
1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

B15 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS

The site is not currently subdivided, therefore the entire site is on this plan's Erosion Control Plan.

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

The proposed land use is for the expansion of the Knox County Justice Facility. The pollutants and sources of each pollutant normally expected from this type of land use are:

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

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

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

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

Pollutant Source: Lawn and Landscape Areas
Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION

The grass-lined channels and swales will serve as the permanent water quality features after construction is complete. The purpose of these features is to filter pollutants and sediment.

C3 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES

Vegetated Swale
Vegetated swales are designed to reduce pollutant and sediment loads in stormwater runoff. Stormwater runoff is directioned in the swale which conveys the runoff from the site. While moving through the swale, runoff velocity is greatly decreased allowing biofiltration (uptake of nutrients by plants), infiltration (percolation of water through the swale's porous soil substrate), and sedimentation (settling of later suspended particles).

Permanent Vegetation
Topsoil will be placed in lawn areas and seeded with grass, and graded not to exceed 3:1 slopes. Proposed landscape trees and shrubs will also be added. These bio areas will act as a natural filter strip to help improve stormwater quality. The vegetated areas will slow the velocities of stormwater runoff, reduce sediment runoff, and reduce problems associated with mud or dust from bare soils.

Good Housekeeping Measures
Good housekeeping measures such as regular street or pavement sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant.

C4 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE

Refer to the Erosion Control Plans for locations and Erosion Control Details for details.

C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER QUALITY MEASURES

Maintenance requirements for the stormwater quality measures which will remain in place after construction is complete, are described below.

Vegetated Swale
Vegetated swales require little maintenance if properly designed. Mow as needed during the growing season; inspect for erosion control problems twice during the first year, annually thereafter; and removed sediment, trash and debris annually or more frequently if needed.

Wet Detention Pond
Remove debris and sediment from entire pond when necessary. Inspect perimeter of basin annually and after major storm events. Regrade soil if gullies form and replant ground. Inspect inlet and outlet devices and structures annually and after major storm events.

SOILS MAP

Brookston Silty Clay Loam, 0 to 2 percent slopes (Br)
- Hydrologic Soils Group C (HSG B)

Crosby Silt Loam, New Castle Till Plain, 0 to 2 percent slopes (CrA)
- Hydrologic Soils Group C (HSG C)

Miami Silt Loam, 2 to 6 percent slopes, eroded (MmB2)
- Hydrologic Soils Group C (HSG C)

RQAW
SITE / CIVIL

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

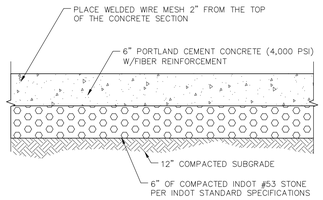
#	Revision	Date

Project #: 20-700-151-2
Designed By: MSO
Drawn By: JLB
Checked By: MSO
Date: 12/29/2021

NOT FOR CONSTRUCTION

STORMWATER POLLUTION PREVENTION PLAN

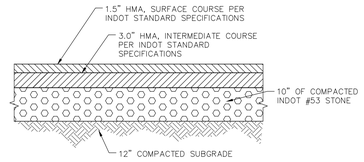
C502



NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWING FOR HEAVY-DUTY CONCRETE JOINTS TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

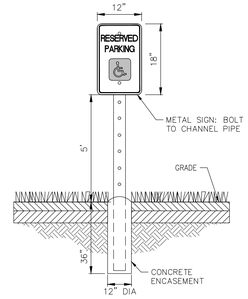
CONCRETE PAVEMENT

NOT TO SCALE



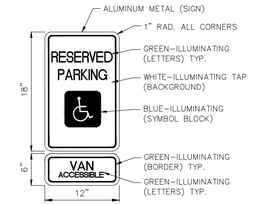
HEAVY DUTY ASPHALT PAVEMENT

NOT TO SCALE



ADA PARKING SIGN DETAIL

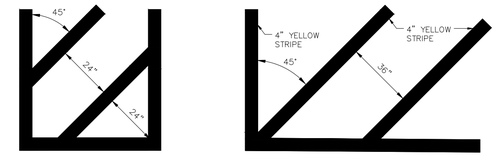
NOT TO SCALE



NOTES:
12"X18" 18 GAUGE HOT DIP GALVANIZED NON-REFLECTIVE "VAN ACCESSIBLE" SIGN ONLY NEEDED FOR VAN ACCESSIBLE SPACES

ADA PARKING SIGN DETAIL

NOT TO SCALE



PAINTED ISLANDS

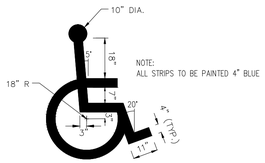
4" SOLID BLUE LINE PAVEMENT MARKINGS FOR ADA ISLANDS. 4" SOLID YELLOW LINE PAVEMENT MARKINGS FOR NON-ADA ISLANDS

PAINTED CROSSWALKS

4" SOLID YELLOW LINE PAVEMENT MARKINGS

PAVEMENT STRIPING DETAIL

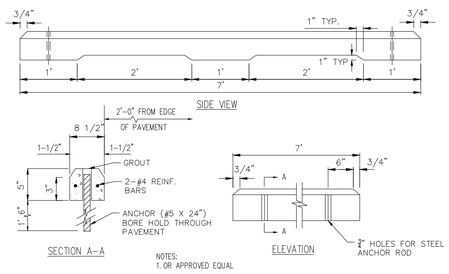
NOT TO SCALE



NOTE:
ALL STRIPS TO BE PAINTED 4" BLUE

ADA PARKING SYMBOL DETAIL

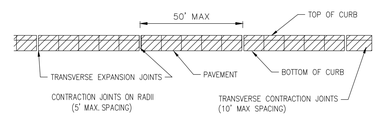
NOT TO SCALE



NOTES:
1. OR APPROVED EQUAL

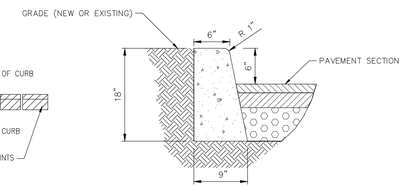
PRECAST CONCRETE WHEELSTOP

NOT TO SCALE



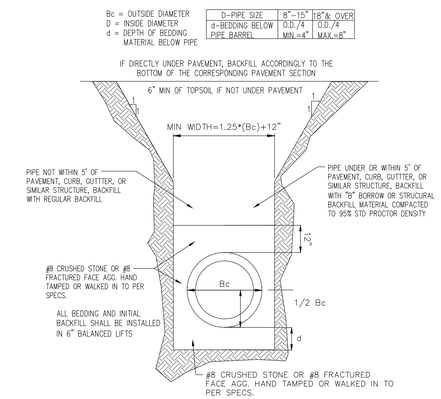
CURB JOINT DETAIL

NOT TO SCALE



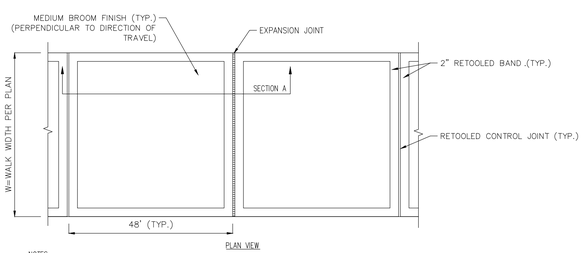
6" CONCRETE CURB

NOT TO SCALE

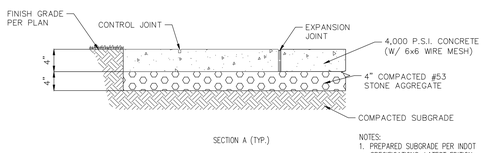


PLASTIC PIPE BEDDING SECTION

NOT TO SCALE



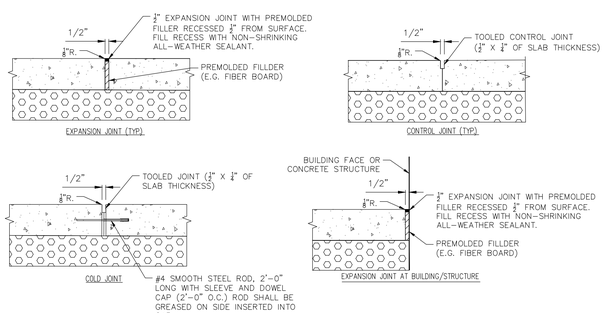
NOTES:
1. ALL SIDEWALK JOINT LOCATIONS/SCORE PATTERNS SHALL BE PROVIDED AS INDICATED IN THE PROJECT SPECIFICATIONS AND AS APPROVED BY ARCHITECT AND OWNER.
2. ALL MATERIALS AND INSTALLATION PER APPLICABLE INDOT STANDARD SPECIFICATIONS, LATEST EDITION.



NOTES:
1. PREPARED SUBGRADE PER INDOT SPECIFICATIONS, LATEST EDITION

CONCRETE SIDEWALK DETAIL

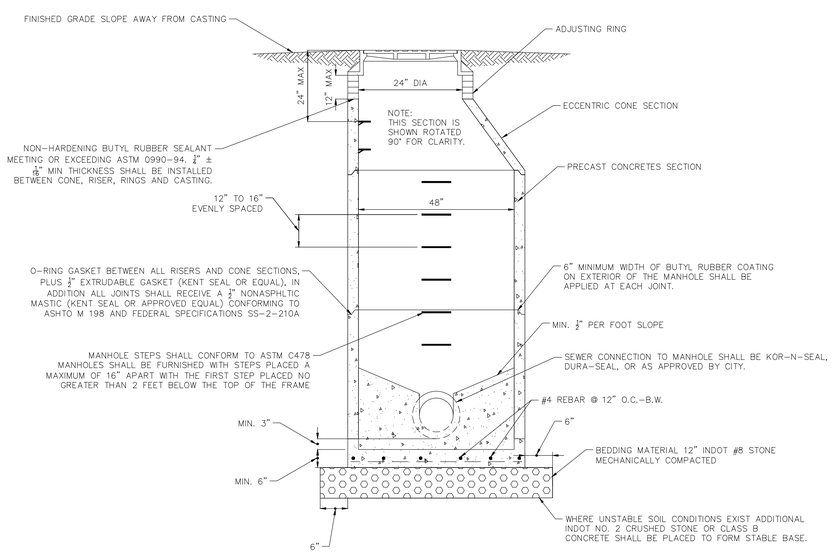
NOT TO SCALE



NOTE: ALL MATERIALS AND INSTALLATION PER APPLICABLE INDOT STANDARD SPECIFICATIONS, LATEST EDITION.

CONCRETE PAVING JOINT DETAILS

NOT TO SCALE



NOTE: FLOW CHANNELS WITHIN MANHOLES SHALL BE AN INTEGRAL PART OF THE PRECAST BASE. THE CHANNELS SHALL BE PLACED AND FORMED FOR A CLEAN TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH CONVEYANCE OF THE FLOW THROUGH THE MANHOLE. THE BENCH WALL SHALL BE FORMED TO THE CROWN OF THE INLET AND OUTLET PIPES TO FORM A "U" SHAPED CHANNEL. THE BENCH WALL SHALL SLOPE BACK FROM THE CROWN AT 1/2" PER FOOT TO THE MANHOLE WALL.

SANITARY MANHOLE FOR PIPE SIZES 8" THRU 24"

NOT TO SCALE

RQAW
SITE / CIVIL

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

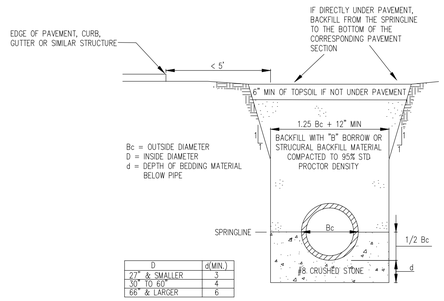
#	Revision	Date

Project #: 20-700-151-2
Designed By: MSO
Drawn By: JLB
Checked By: MSO
Date: 12/29/2021

NOT FOR CONSTRUCTION

CONSTRUCTION DETAILS

C600

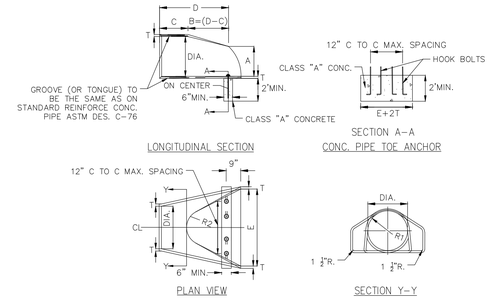


D	d(MIN.)
27" & SMALLER	3
30" TO 60"	4
66" & LARGER	6

ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" BALANCED LIFTS

RCP BEDDING SECTION <5' FROM EDGE OF PAVEMENT

NOT TO SCALE

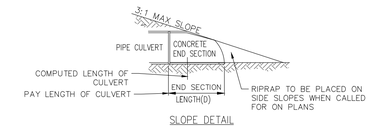


DIA.	T (MIN)	A=	C=	D=	E=	K=	R 1	R 2	APPROX WEIGHT
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	11"	1100
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	12"	1300
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	2.1	16 1/8"	13"	1500
24"	3"	1'-0"	2'-8"	6'-3"	4'-0"	2.3	16 3/16"	14"	1800
27"	3 1/4"	1'-1"	2'-5"	6'-3"	4'-6"	2.6	18 3/16"	14 1/2"	2100
30"	3 1/2"	1'-2"	1'-10"	6'-3"	5'-0"	2.9	18 1/2"	15"	2400
33"	3 3/4"	1'-3"	1'-8"	8'-3"	5'-6"	3.1	23 3/4"	17 1/2"	4100
36"	4"	1'-5"	1'-1"	8'-3"	6'-0"	3.4	24 3/16"	20"	4200

TOLERANCE ± 1"

GENERAL NOTES:

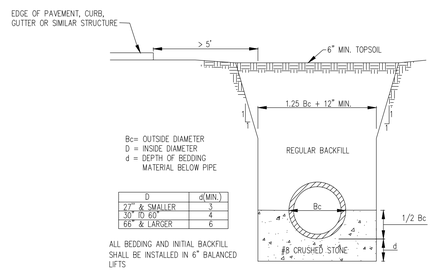
CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, ASTM DESIGNATION C-76 (AS SET OUT IN STANDARD SPECIFICATIONS). REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE. REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" PORTION. THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSHED. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR. VARIATIONS IN DIMENSIONS – THE THICKNESS OF THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, ASTM DESIGNATION C-76. WHERE VITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE IS USED, A "PIPE END SECTION" COMPARABLE TO THAT AS SHOWN FOR METAL OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE ENGINEER, EXCEPT IN AREAS OF ACID OR MINE WATER. THEN THE USE OF METAL END SECTION IS PROHIBITED. END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH "PIPE END SECTION" COMPLETED IN PLACE AND ACCEPTED CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH "PIPE END SECTION ".



NOTE:
METAL PIPE END SECTIONS MAY BE USED WITH CONCRETE PIPE, WHERE PERMITTED BY LOCAL CODES, PROVIDING THE METHOD OF CONNECTION IS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION OF PIPE. METAL PIPE END SECTIONS OR HDPE PIPE END SECTIONS (IF AVAILABLE) SHALL BE USED FOR PLASTIC PIPE END SECTIONS SHALL BE ATTACHED SECURELY TO THE PIPE USING THE MANUFACTURER RECOMMENDATIONS OF THE PIPE AND END SECTION.

END SECTION DETAIL AND NOTES

NOT TO SCALE



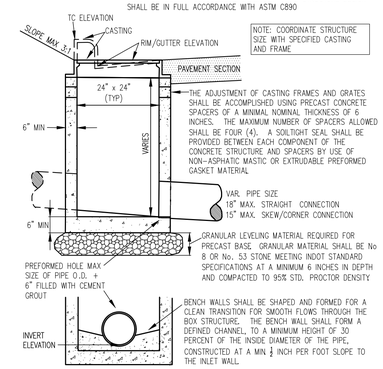
D	d(MIN.)
27" & SMALLER	3
30" TO 60"	4
66" & LARGER	6

ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED IN 6" BALANCED LIFTS

RCP BEDDING SECTION >5' FROM EDGE OF PAVEMENT

NOT TO SCALE

GENERAL NOTES:
STORM BOX STRUCTURES SHALL BE PRECAST CONCRETE CLASS A WITH A 4000 PSI. 28 DAY COMPRESSIVE STRENGTH THE STRUCTURE DESIGN SHALL BE IN FULL ACCORDANCE WITH ASTM C890



STORM BOX STRUCTURE

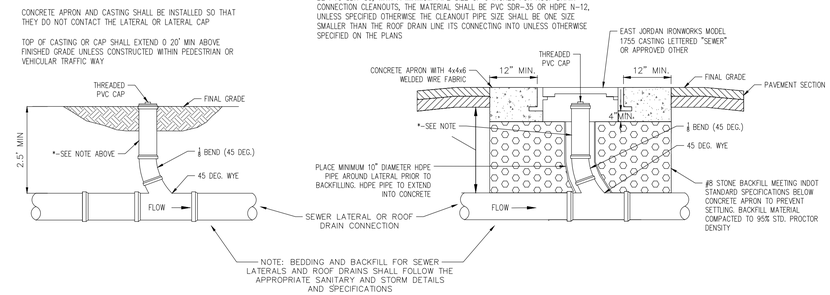
NOT TO SCALE

GENERAL NOTES:
MAXIMUM CLEANOUT SPACING IS 100 LF BETWEEN CLEANOUTS

CONCRETE APRON AND CASTING SHALL BE INSTALLED SO THAT THEY DO NOT CONTACT THE LATERAL OR LATERAL CAP

TOP OF CASTING OR CAP SHALL EXTEND 0.20' MIN ABOVE FINISHED GRADE UNLESS CONSTRUCTED WITHIN PEDESTRIAN OR VEHICULAR TRAFFIC WAY

NOTE: FOR SEWER LATERALS, THE CLEANOUT PIPE AND FITTING MATERIAL SHALL BE PVC SDR-35, WITH A MINIMUM PIPE SIZE OF 6 INCHES FOR ROOF DRAIN CONNECTION CLEANOUTS, THE MATERIAL SHALL BE PVC SDR-35 OR HDPE N-12, UNLESS SPECIFIED OTHERWISE. THE CLEANOUT PIPE SIZE SHALL BE ONE SIZE SMALLER THAN THE ROOF DRAIN LINE ITS CONNECTING INTO UNLESS OTHERWISE SPECIFIED ON THE PLANS



CLEANOUT TYPE 1
FOR LANDSCAPED/GRASS SURFACES

CLEANOUT TYPE 2
FOR HARDSCAPE/RIGID SURFACES

TYPICAL CLEANOUT SECTION

NOT TO SCALE

RQAW
SITE / CIVIL

BID SET

KNOX COUNTY BOARD OF COMMISSIONERS

KNOX COUNTY JUSTICE CAMPUS

2375 OLD DECKER RD. VINCENNES, IN 47591

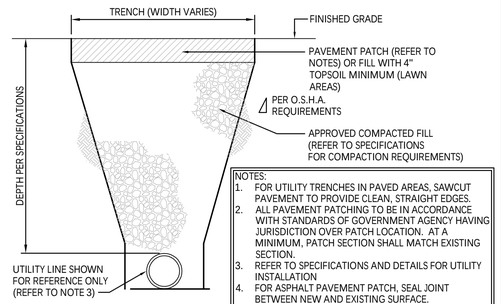
#	Revision	Date

Project #: 20-700-151-2
Designed By: MSO
Drawn By: JLB
Checked By: MSO
Date: 12/29/2021

NOT FOR CONSTRUCTION

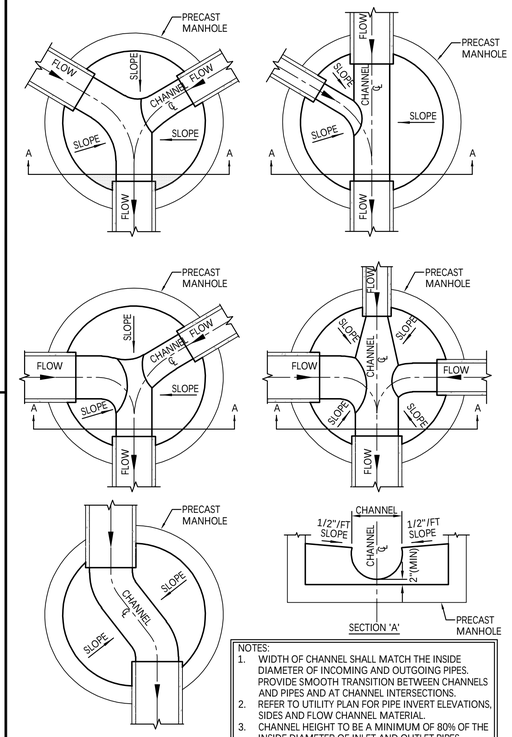
CONSTRUCTION DETAILS

C601



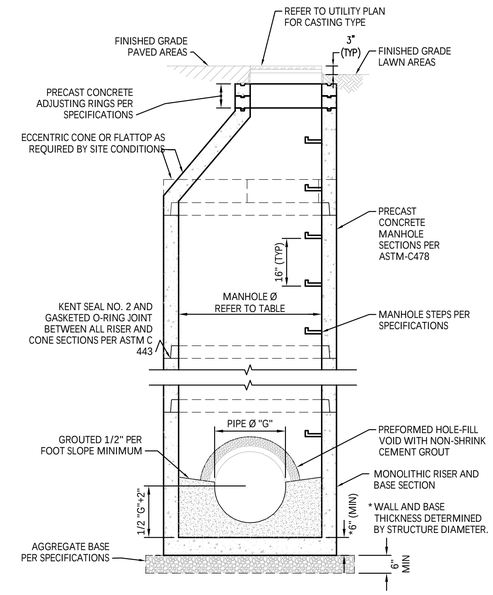
NOTES:
1. FOR UTILITY TRENCHES IN PAVED AREAS, SAWCUT PAVEMENT TO PROVIDE CLEAN, STRAIGHT EDGES.
2. ALL PAVEMENT PATCHING TO BE IN ACCORDANCE WITH STANDARDS OF GOVERNMENT AGENCY HAVING JURISDICTION OVER PATCH LOCATION. AT A MINIMUM, PATCH SECTION SHALL MATCH EXISTING SECTION.
3. REFER TO SPECIFICATIONS AND DETAILS FOR UTILITY INSTALLATION
4. FOR ASPHALT PAVEMENT PATCH, SEAL JOINT BETWEEN NEW AND EXISTING SURFACE.
5. PAVEMENT PATCH SHALL MATCH EXISTING GRADE. VERIFY POSITIVE DRAINAGE ACROSS PATCH SURFACE. REPAIR IF NECESSARY.

7 UTILITY TRENCH CUT DETAIL
NO SCALE



NOTES:
1. WIDTH OF CHANNEL SHALL MATCH THE INSIDE DIAMETER OF INCOMING AND OUTGOING PIPES. PROVIDE SMOOTH TRANSITION BETWEEN CHANNELS AND PIPES AND AT CHANNEL INTERSECTIONS.
2. REFER TO UTILITY PLAN FOR PIPE INVERT ELEVATIONS, SIDES AND FLOW CHANNEL MATERIAL.
3. CHANNEL HEIGHT TO BE A MINIMUM OF 80% OF THE INSIDE DIAMETER OF INLET AND OUTLET PIPES.

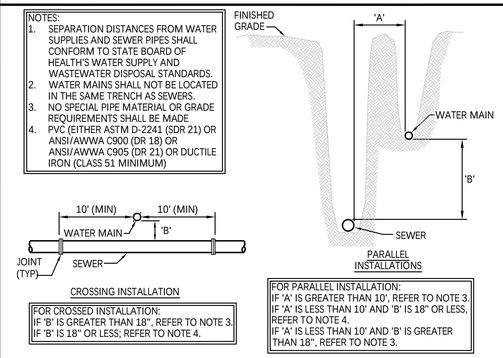
5 MANHOLE BENCHWALL DETAIL
NO SCALE



STORM MANHOLE DIAMETER TABLE		
PIPE DIA "G"	PIPES ENTERING OR LEAVING AT A 0°-45° ANGLE	PIPES ENTERING OR LEAVING AT A 46°-90° ANGLE
12"-21"	48"	48"
24"	48"	60"
27"-30"	60"	60"
30"-36"	60"	72"

3 STORM MANHOLE DETAIL
NO SCALE

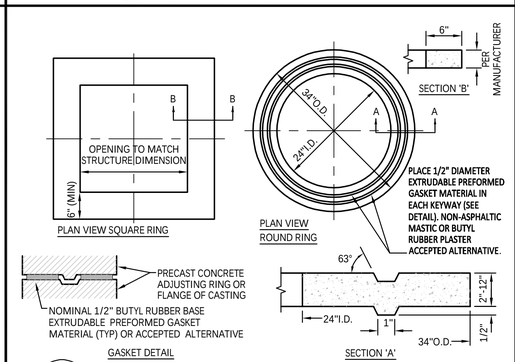
NOTES:
1. SEPARATION DISTANCES FROM WATER SUPPLIES AND SEWER PIPES SHALL CONFORM TO STATE BOARD OF HEALTH'S WATER SUPPLY AND WASTEWATER DISPOSAL STANDARDS.
2. WATER MAINS SHALL NOT BE LOCATED IN THE SAME TRENCH AS SEWERS.
3. NO SPECIAL PIPE MATERIAL OR GRADE REQUIREMENTS SHALL BE MADE
4. PVC (EITHER ASTM D-2241 (SDR 21) OR ANSI/AWWA C900 (DR 18) OR ANSI/AWWA C905 (DR 21) OR DUCTILE IRON (CLASS 51 MINIMUM)



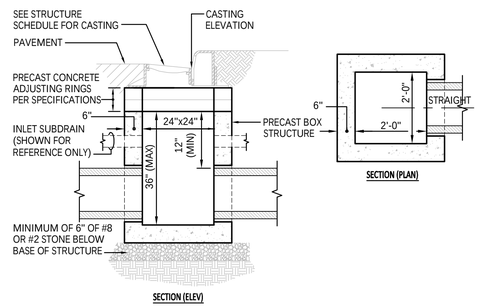
FOR CROSSED INSTALLATION:
IF 'B' IS GREATER THAN 18", REFER TO NOTE 3.
IF 'B' IS 18" OR LESS; REFER TO NOTE 4.

FOR PARALLEL INSTALLATION:
IF 'A' IS GREATER THAN 10', REFER TO NOTE 3.
IF 'A' IS LESS THAN 10' AND 'B' IS 18" OR LESS, REFER TO NOTE 4.
IF 'A' IS LESS THAN 10' AND 'B' IS GREATER THAN 18", REFER TO NOTE 3.

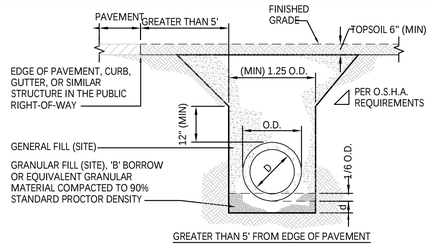
6 WATER AND SEWER CROSSING DETAIL
NO SCALE

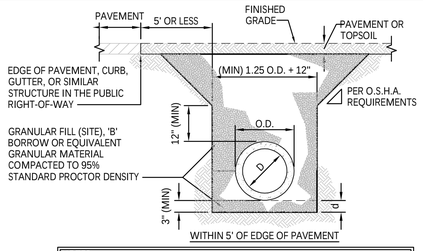


4 PRECAST CONCRETE ADJUSTING RING DETAIL
NO SCALE



2 INLET BOX DETAIL (24"x24")
NO SCALE





DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	(d) (MIN)
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

LEGEND
O.D. = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

NOTES:
1. ALL BEDDING AND INITIAL BACKFILL SHALL BE INSTALLED 6" TO 12" BALANCED LIFTS.
2. A MINIMUM OF 9" CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.
3. BEDDING SHALL BE SHAPED TO RECEIVE THE PIPE BELL SO THAT THE PIPE BARREL IS UNIFORMLY SUPPORTED.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

1 RIGID PIPE (RCP) BEDDING DETAIL
NO SCALE

811
Know what's below.
Call before you dig.

RQAW
SITE / CIVIL

BID SET

KNOX COUNTY JAIL

2375 S OLD DECKER RD.
VINCENNES, IN 47591

Project #: 20-700-151-2
Designed By: NBV
Drawn By: JLB
Checked By: NBV
Date: 01/28/2022

NICHOLAS BIJAN VERZATICO
REGISTERED
No. PE11500269
STATE OF INDIANA
PROFESSIONAL ENGINEER

Nicholas Bijan Verzatico

SITE UTILITY DETAILS

C602