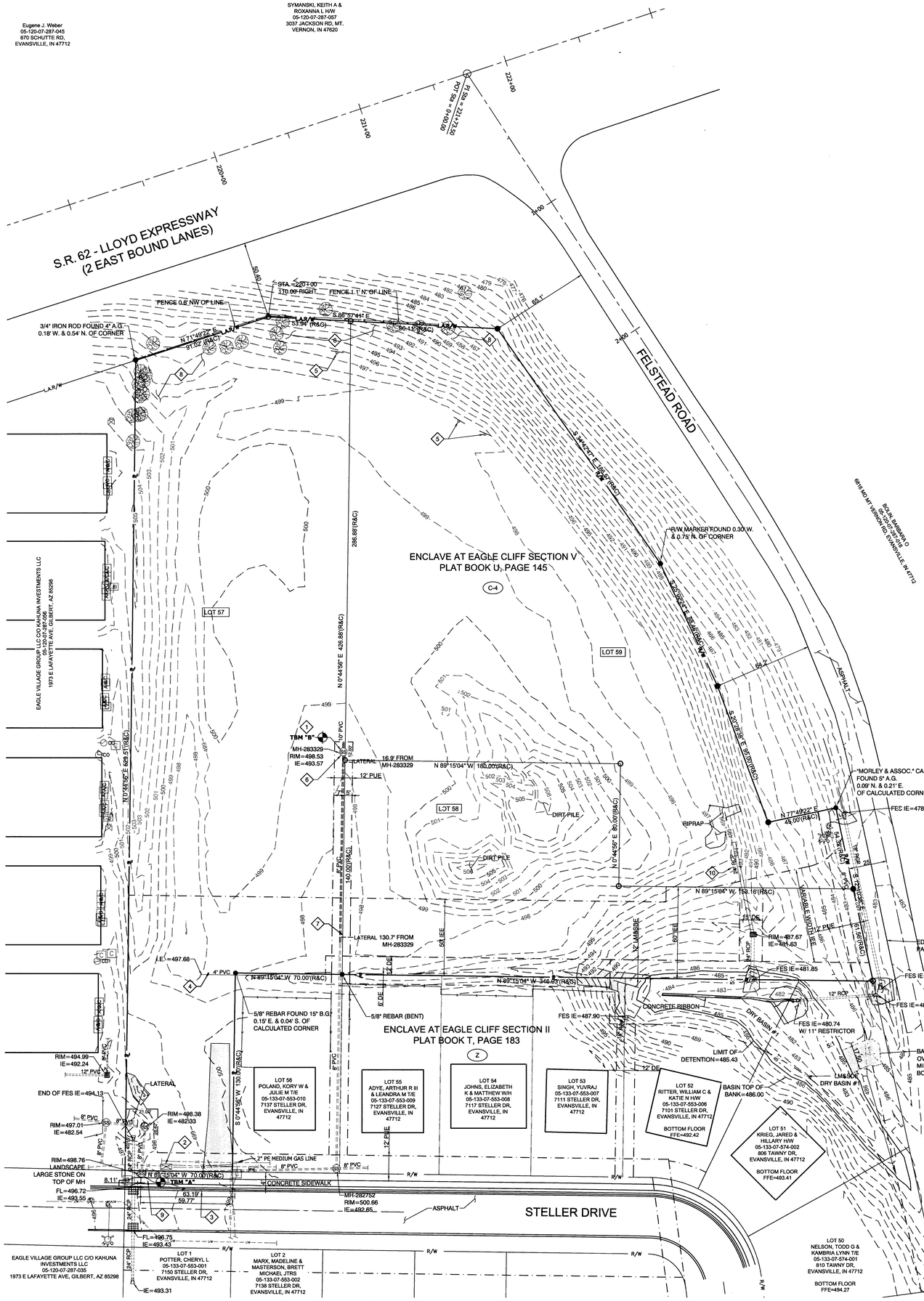
REFERENCES:

Jun 28, 2023 - 1:17pm L:\Civil 3D 2023\22323A Deaconess MOB Felstead Rd\2-DWG\22323A BASE Survey.dwg Plotted By: blewis



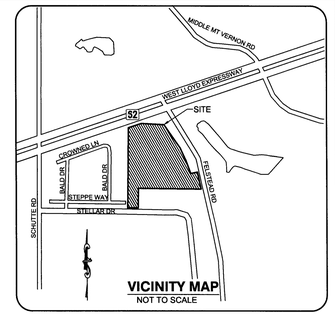
EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1"=30'

0 30' 60'

PROPERTY INFORMATION

LOTS 57, 58 & 59 IN ENCLAVE AT EAGLE CLIFF SECTION V
ADDRESS: 801 FELSTEAD ROAD, EVANSVILLE, IN 47712
TOWNSHIP: PERRY TOWNSHIP, VANDERBURGH COUNTY
SECTION: 29 - T6S - R11W
ZONED: C-4



LEGEND

- BENCHMARK
- FOUND MONUMENT
- SET MONUMENT
- A/C AIR CONDITIONING UNIT
- E/B ELECTRIC JUNCTION BOX
- ELECTRIC TERMINATION CABINET
- C COMMUNICATION PEDESTAL
- C-4 PROPERTY ZONE
- SIGN
- SANITARY CLEANOUT
- SS SANITARY SEWER MANHOLE
- SQUARE STORM INLET
- CURB INLET
- FIRE HYDRANT
- WATER VALVE
- IRRIGATION CONTROL VALVE
- WM WATER METER
- MISC VERTICAL PIPE

IE	INVERT ELEVATION
IEE	INGRESS/EGRESS EASEMENT
PUE	PUBLIC UTILITY EASEMENT
DE	DRAINAGE EASEMENT
FES	FLARED END SECTION
PVC	POLYVINYL CHLORIDE PIPE
LM&SDE	LAKE MAINTENANCE & STORM DRAINAGE EASEMENT
TBM	TEMPORARY BENCHMARK

- EASEMENT LINE
- PROPERTY LINE
- R/W RIGHT OF WAY LINE
- UE UNDERGROUND ELECTRIC
- UC UNDERGROUND COMMUNICATION
- W WATER LINE
- ST STORM SEWER LINE
- SS SANITARY SEWER LINE
- G GAS LINE
- FENCE LINE
- CONCRETE CURB
- CONCRETE
- RIP RAP
- STONE

- Elevations are based on NAVD88 derived from on-site RTK GPS observations and OPUS Solution File TR8464578843816.
- TBM A = 498.76 - Chiseled "X" on North side of manhole rim on the North side of Steller Drive near the Southwest corner of Lot 57.
- TBM B = 498.53 - Chiseled "X" on South side of manhole rim near the common corner of Lots 57, 58 & 59.
- Topographic survey provided by Morley and Associates was received on 12/14/2022.
- As-built survey of Subdivision Dry Basin #1 was performed by Three i Design on 5/26/2023.

GENERAL NOTES:

1. PROPERTY CONTAINS NO KNOWN WETLANDS AND NO PART IS LOCATED WITHIN FLOODPLAIN.
2. BURIED UTILITIES SHOWN ARE RESULT OF TOPOGRAPHIC SURVEY AND REFERENCE INFORMATION AND ARE NOT GUARANTEED FOR ACCURACY.
3. CONTRACTOR IS RESPONSIBLE FOR UTILITY LOCATES PRIOR TO COMMENCING WORK.
4. CONTRACTOR TO SUPPLY AND PLACE 6' CHAIN LINK TEMPORARY CONSTRUCTION FENCE AROUND PROJECT LIMITS (NOT SHOWN), ADJUSTING AS NEEDED FOR PHASING.
5. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC BARRICADES, CONES, DRUMS, SIGNAGE, ETC. AS NEEDED TO MAINTAIN A SAFE AND SECURE SITE. (PER INDOT & VANDERBURGH COUNTY).
6. INSTALL ALL APPLICABLE EROSION CONTROL MEASURES AND REQUEST INSPECTION PRIOR TO COMMENCING SOIL DISTURBING ACTIVITY. SEE EROSION CONTROL PLAN & DETAILS, SHEETS C2.0-2.1.
7. SITE CONTRACTOR IS RESPONSIBLE FOR SITE DRAINAGE DURING DEMOLITION & CONSTRUCTION PHASES. SUPPLEMENTAL GRADING AND STORM WATER DE-WATERING SHALL BE PERFORMED AS NEEDED.
8. EACH ITEM TO BE DEMOLISHED IS NOT SPECIFICALLY NOTED WITHIN CONSTRUCTION AREA. REMOVE ALL ITEMS REQUIRED FOR NEW CONSTRUCTION.
9. UNLESS OTHERWISE INDICATED, ALL EXISTING MATERIAL STOCKPILE AND DEMOLITION WASTE BECOMES THE PROPERTY OF CONTRACTOR AND SHALL BE REMOVED FROM SITE AND DISPOSED OF PROPERLY IN A TIMELY MANNER.
10. PROVIDE MEASURES TO PROTECT EXISTING CONSTRUCTION TO REMAIN. PROTECT ALL EXISTING PAVEMENT AND UTILITIES. ANY ITEMS DAMAGED SHALL BE REPAIRED OR REPLACED AT EXPENSE OF CONTRACTOR.
11. TOP 3"-5" OF TOPSOIL SHOULD BE EXPECTED TO BE STRIPPED PRIOR TO COMPACTING OR PLACING FILL MATERIAL.

DEMOLITION KEY NOTES:

1. TRANSFER TBM B TO A SAFE LOCATION OUTSIDE OF CONSTRUCTION AREA PRIOR TO REMOVAL OF SANITARY SEWER MANHOLE.
2. UNDERGROUND ELECTRIC TERMINATION CABINET SHALL BE RELOCATED TO A POINT APPROXIMATELY 11.5' WEST BY UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY AND OWNER. SEE SHEET C3.0 FOR NEW LOCATION.
3. REMOVE 63.19 L.F. OF CURB AND GUTTER FOR NEW ENTRANCE. SEE SHEET C6.1 FOR LOCATION OF NEW ENTRANCE.
4. REMOVE AND BACKFILL 4" PVC DRAIN PIPE. SEE SHEET C7.0 FOR BACKFILL SPECIFICATIONS.
5. REMOVE WOODEN FOR SALE SIGNS, INCLUDING POSTS.
6. REMOVE AND BACKFILL 4' DIA. PRE-CAST CONCRETE SANITARY SEWER MANHOLE INCLUDING FRAME & COVER, AND 10" PVC STUB. BACKFILL WITH COMPACTED #11 STONE UP TO BOTTOM OF NEW PAVEMENT AGGREGATE LAYER. SEE SHEET C4.0 FOR NEW MANHOLE LOCATION.
7. REMOVE AND BACKFILL 125.73 L.F. OF 8" PVC SANITARY SEWER MAIN, INCLUDING (2) LATERAL STUBS. BACKFILL WITH COMPACTED #11 STONE UP TO BOTTOM OF NEW PAVEMENT AGGREGATE LAYER. SEE SHEET C4.0 FOR NEW MANHOLE LOCATION.
8. REMOVE ALL TREES AND BRUSH (INCLUDING STUMPS) ALONG NORTH AND WEST PROPERTY LINES THAT ARE NOT IN RIGHT-OF-WAY OR ADJACENT PROPERTY. NO TREES LARGER THAN 3" DIAMETER AT THE BASE CAN BE REMOVED FROM APRIL 1 THROUGH SEPTEMBER 30. TREE REMOVAL SHALL BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
9. REMOVE 59.77 L.F. OF CONCRETE SIDEWALK FOR NEW ENTRANCE AND CURB RAMPS. SEE SHEET C6.1 FOR LOCATION OF NEW ENTRANCE AND CURB RAMPS.
10. REMOVE 24" RCP STORM PIPE WITH PLUGGED END TO EXISTING STORM STRUCTURE. TEMPORARILY PLUG HOLE IN STORM STRUCTURE UNTIL READY TO RECEIVE NEW PIPE. SEE SHEET C4.0 FOR NEW STORM SEWER NETWORK INFORMATION. BACKFILL WITH COMPACTED #11 STONE UP TO BOTTOM OF NEW PAVEMENT AGGREGATE LAYER AS APPLICABLE.

APPROVED

JUL 11 2023

VANDERBURGH COUNTY DRAINAGE BOARD

FELSTEAD MEDICAL OFFICE BUILDING

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Website: www.bfwengineers.com

LUKE A. MEHRINGER REGISTERED No. PE11300304 STATE OF INDIANA PROFESSIONAL ENGINEER
4/14/23

Revisions:

#	Description	Date
1	ADDENDUM 1	4/27/2023
2	PR-002	6/15/2023
3	PR-004	6/27/2023

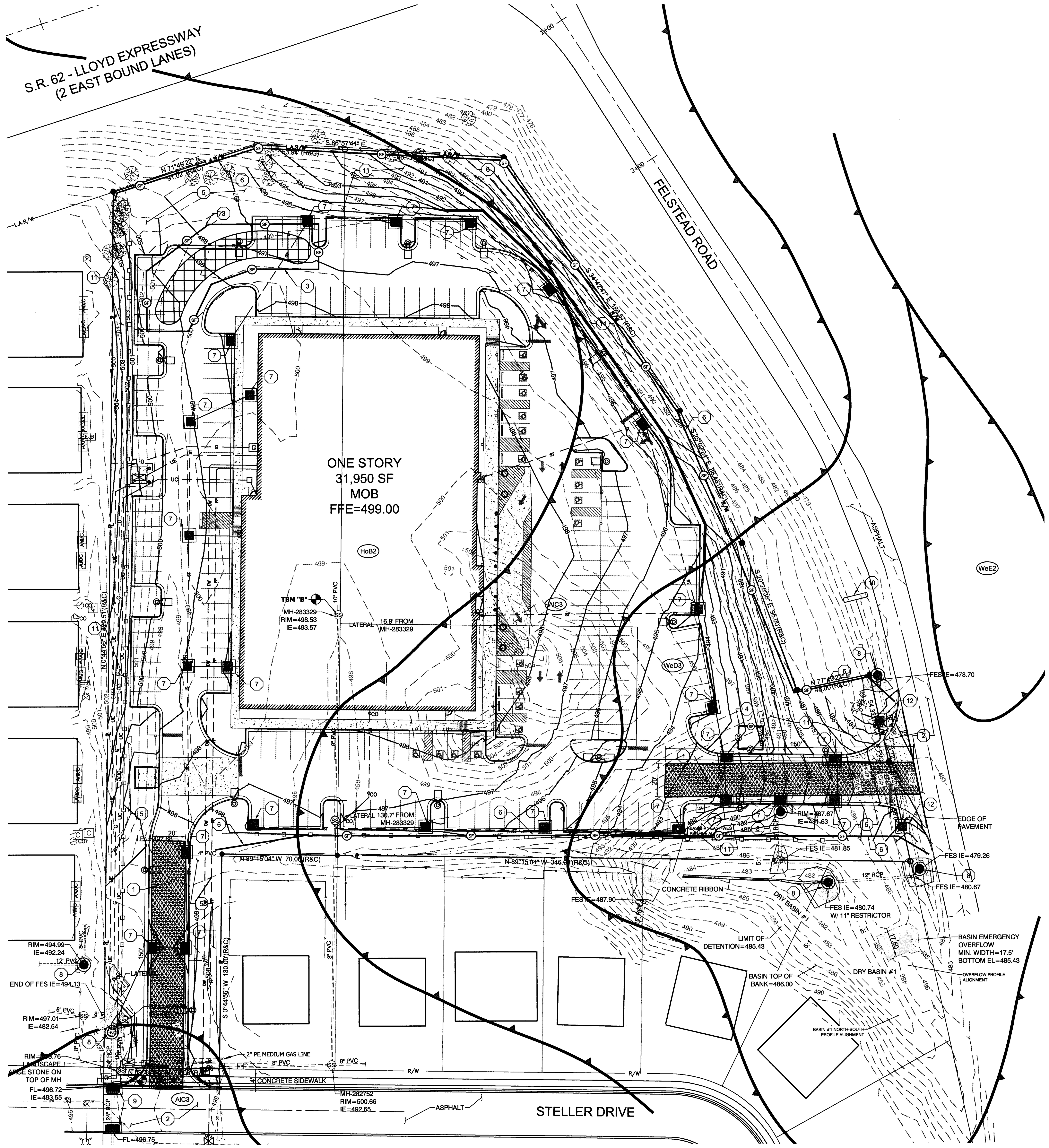
Designed By:	Drawn By:	Checked By:
BLL	RMY	LAM

Received by the Vanderburgh County Surveyor's Office
JUN 29 2023
Time 9:00AM Initials MSL

Sheet title:
EXISTING CONDITIONS AND DEMOLITION PLAN

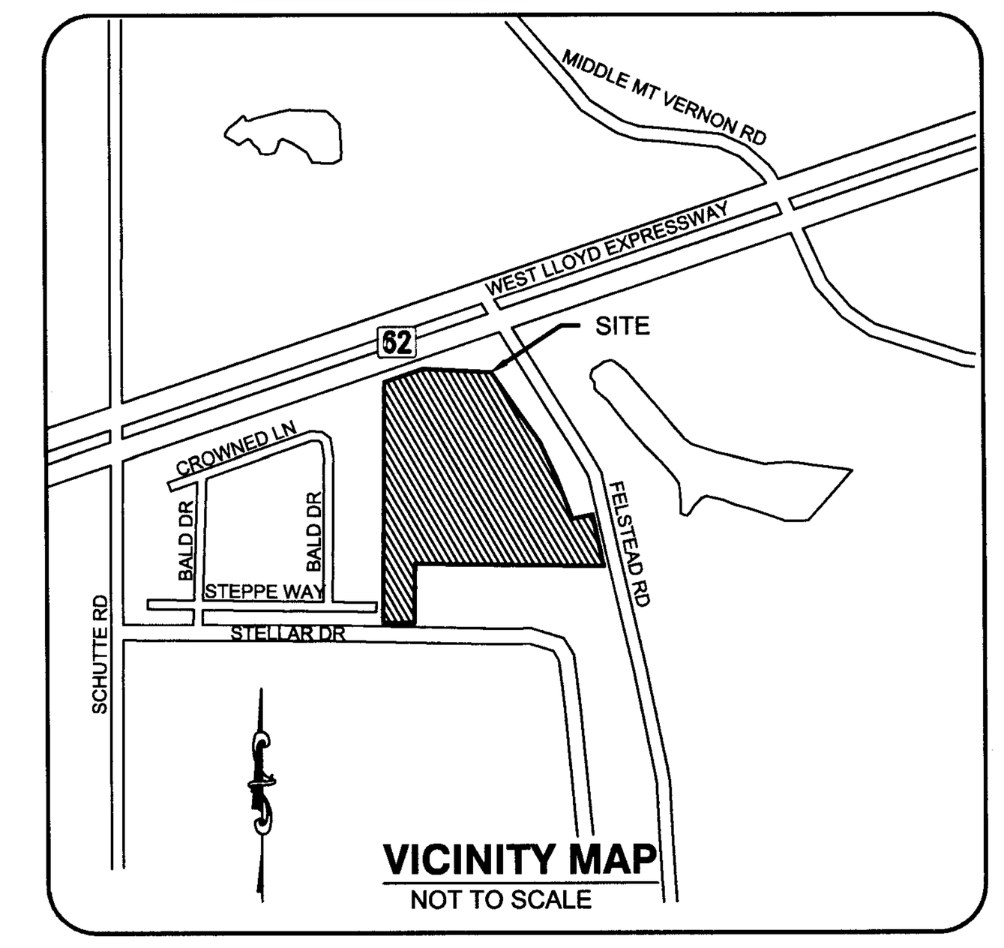
Architect's Project No: 2210-323
Date: April, 2023

Drawing No: 3 C1.0



EROSION CONTROL PLAN

SCALE: 1"=30'



EROSION CONTROL LEGEND

Symbol	Description
AfB2	SOIL TYPE
	SOIL LIMIT
397	EXISTING CONTOURS
397	NEW CONTOURS
	CONCRETE WASHOUT
SF	SILT FENCE
CW	COIR WADDLE
	TRI DIKE
	EXISTING STRUCTURE / PIPE PROTECTION
	NEW STRUCTURE PROTECTION
	EXISTING CURB INLET PROTECTION
	CONSTRUCTION ENTRANCE
	TOPSOIL STOCKPILE AREA
	LIMITS OF CONSTRUCTION
	PERMANENT TURF REINFORCEMENT MAT

SOIL LEGEND

AIC3 - ALFORD SILT LOAM, 5%-10% SLOPES ERODED.

HoB2 - HOSMER SILT LOAM, 2%-5% SLOPES, ERODED.

WeD3 - WELLSTON SILT LOAM, 10%-18% SLOPES SEVERLY ERODED.

SOIL CLASSIFICATIONS OBTAINED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.

GENERAL EROSION CONTROL NOTES:

3

1. ALL SOIL EROSION CONTROL ITEMS MUST BE INSTALLED BEFORE SITE WORK BEGINS. CONTACT THE VANDERBURGH COUNTY ENGINEER'S OFFICE (812-435-5773) FOR INITIAL INSPECTION.
2. ALL STORM WATER QUALITY MEASURES IMPLEMENTED DURING AND AFTER CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH IDEM'S CONSTRUCTION STORM WATER GENERAL PERMIT.
3. SHOULD ADVERSE WEATHER CONDITIONS CAUSE EXCESSIVE SEDIMENT ACCUMULATIONS TO OCCUR, ADDITIONAL MEASURES SHALL BE IMPLEMENTED.
4. TRAINED INDIVIDUALS ARE TO PERFORM SELF MONITORING INSPECTIONS AND STORM WATER PROJECT MANAGEMENT. PROJECT MANAGEMENT LOG SHALL BE RETAINED FOR 3 YEARS. INSPECTION SHALL BE COMPLETED WITHIN 24 HOURS AFTER RAINFALL EVENT OF 0.50 INCHES OF RAINFALL, OR A MINIMUM OF ONCE PER WEEK.
5. NOTICE MUST BE MAINTAINED AT PROJECT SITE ENTRANCE OR JOB SITE TRAILER IF APPLICABLE. NOTICE SHALL INCLUDE COPY OF NOI, NPDES PERMIT NUMBER, AND LOCATION OF STORM WATER POLLUTION PREVENTION PLAN.
6. THE CONTRACTOR SHALL PROVIDE A DESIGNATED AREA TO PERFORM ALL EQUIPMENT FUELING AND MAINTENANCE. SPILL CONTROL AND COUNTERMEASURE MATERIAL MUST BE KEPT ON SITE AT ALL TIMES. ANY SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY.
7. CONCRETE WASHOUT (CWO) AREA IS TO BE PROVIDED FOR ANY CONCRETE WASHOUT OR WASH WATER USED TO CLEAN CONCRETE EQUIPMENT AND TOOLS. WASHOUT MUST PROVIDE LEAK PROOF CONTAINMENT; NO MATERIAL OR WASH WATER SHALL BE DISCHARGED. INSTALL SIGNAGE TO IDENTIFY CWO LOCATION. REFER TO WASH WATER CONTAINMENT DESIGN GUIDANCE DOCUMENT.
8. ANY SOIL TRACKED ON PUBLIC STREETS WILL BE CLEANED UP IMMEDIATELY. WASHING SOILS INTO THE PUBLIC STORM SEWERS IS NOT ACCEPTABLE. CONSTRUCTION INGRESS/EGRESS PAD SHALL BE CONSTRUCTED. LOCATIONS TO BE DETERMINED BY CONTRACTOR (LOCATIONS SHOWN ARE TENTATIVE).
9. APPLY TEMPORARY GROUND COVER WHERE UNPROTECTED SOIL WILL BE EXPOSED WITHIN 7 DAYS OF INACTIVITY AND COMPLETED WITHIN 14 DAYS.
10. ALL EROSION CONTROL MEASURES MAY BE REMOVED AFTER 70% SEED GROWTH IS ESTABLISHED.
11. DE-WATER SITE AS NEEDED DURING CONSTRUCTION USING PUMP AND FILTER BAGS. SEE DETAILS 6 & 10, SHEET C2.1.

(#) EROSION CONTROL KEYNOTES:

1. TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD. LOCATE AND MAINTAIN AS NEEDED DURING CONSTRUCTION. SEE DETAIL 1, SHEET C2.1.
2. PUBLIC ROADWAY TO BE CLEANED OF SEDIMENT AND DEBRIS ON A DAILY BASIS.
3. SOIL STOCKPILE AREA FOR STRIPPED TOPSOIL (LOCATION & SIZE AS NEEDED). INSTALL SILT FENCE PROTECTION AROUND PERIMETER. SEE DETAIL 6, SHEET C2.1.
4. CONCRETE WASHOUT CONTAINMENT WITH SIGNAGE. LOCATION TO BE DETERMINED BY CONTRACTOR. SEE DETAIL 2, SHEET C2.1. LINED DUMPSTER MAY BE USED IN LIEU OF WASHOUT.
5. SEED ALL DISTURBED AREAS, NOT RECEIVING EROSION CONTROL BLANKETS OR PAVING, IMMEDIATELY AFTER FINAL GRADE IS ACHIEVED. TEMPORARY SEED ANY AREAS TO BE LEFT BARE AFTER 7 DAYS OF INACTIVITY AND COMPLETED WITHIN 14 DAYS. SEE PERMANENT AND TEMPORARY SEEDING SPECIFICATIONS ON SHEET C2.1.
6. SILT FENCE PROTECTION AROUND PERIMETER. SEE DETAIL 6, SHEET C2.1.
7. PROTECT NEW DRAINAGE STRUCTURES WITH GEOTEXTILE PROTECTION UNTIL PAVING IS COMPLETE. AFTER PAVING IS COMPLETED, PROTECT STRUCTURE WITH COIR MAT UNTIL SOIL DISTURBING ACTIVITY IS COMPLETE AND GROUND COVER IS ESTABLISHED. SEE DETAILS 5 AND 10 ON SHEET C2.1.
8. PROTECT EXISTING DRAINAGE PIPES & STRUCTURES WITH GEOTEXTILE PROTECTION UNTIL SOIL DISTURBING ACTIVITY IS COMPLETE AND GROUND COVER IS ESTABLISHED. SEE DETAIL 10 ON SHEET C2.1.
9. PROTECT EXISTING CURB INLETS WITH COIR MAT AND STONE BAGS. SEE DETAILS 4 & 5, SHEET C2.1.
10. TRIANGULAR SILT DIKE DITCH CHECK. SEE DETAIL 9, SHEET C2.1.
11. PLACE NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKET ON SLOPES 4:1 OR GREATER. SEE DETAIL 12, SHEET C2.1. PLACE COIR WATTLES AT BOTTOM OF SLOPE. SEE DETAIL 8, SHEET C2.1.
12. PROTECT NEW CURB TURNOUTS WITH GEOTEXTILE PROTECTION. SEE DETAIL 10 ON SHEET C2.1.

Received by the Vanderburgh County Surveyor's Office
JUN 29 2023

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Website: www.bfwengineers.com

Revisions:

#	Description	Date
1	ADDENDUM 1	4/27/2023
2	PR-002	6/15/2023
3	PR-004	6/27/2023

Designed By:	Drawn By:	Checked By:
BLL	RMY	LAM

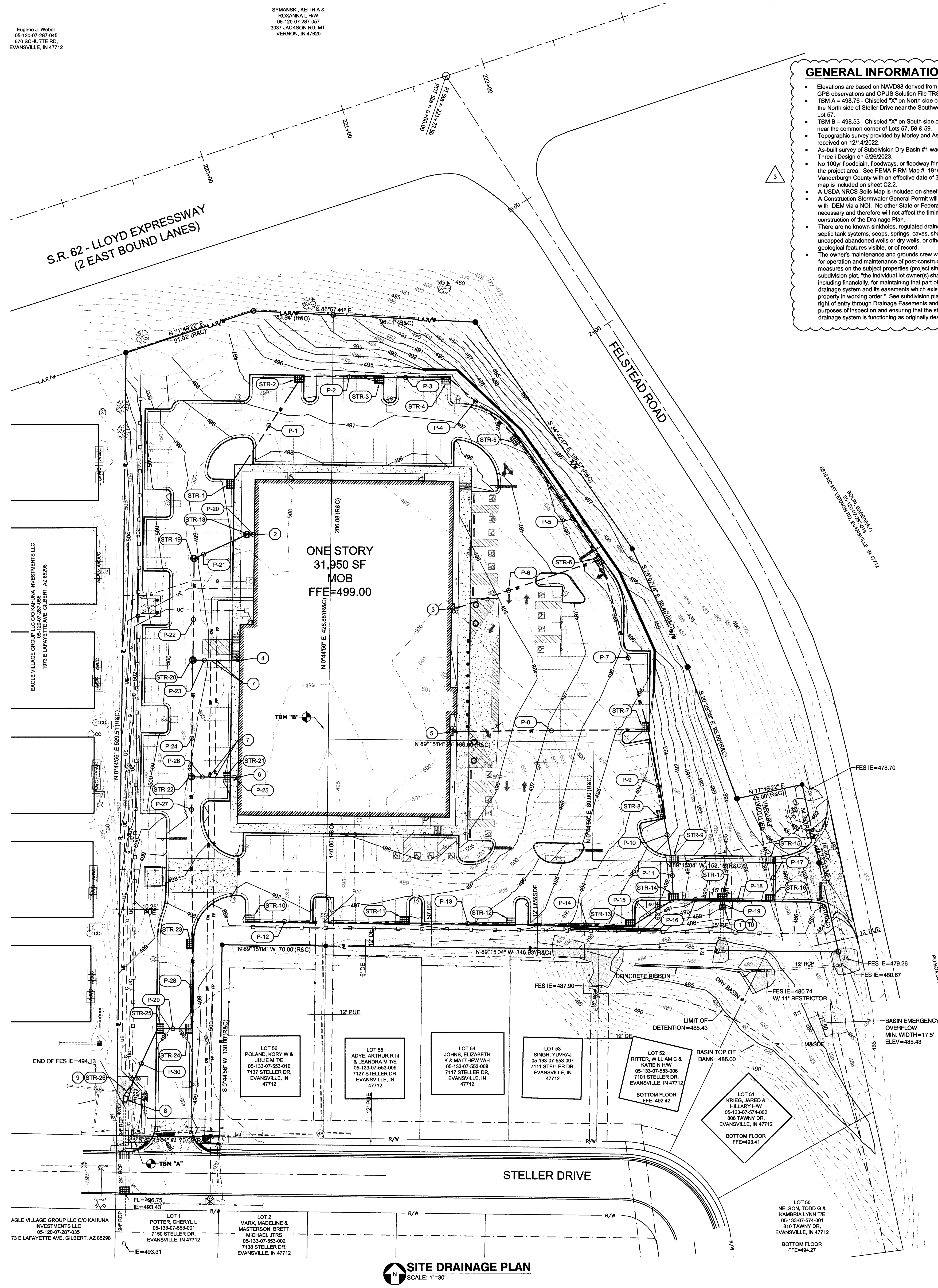
APPROVED
JUL 11 2023
VANDERBURGH COUNTY DRAINAGE BOARD

Sheet title:
EROSION CONTROL PLAN

Architect's Project No: 2210-323
Date: April, 2023

Drawing No:
C2.0

Jun 28, 2023 - 1:16pm L:\Civil 3D 2023\22323A Deaconess MOB Felstead Rd\2-DWG\22323A Erosion.dwg Plotted By: blewis



GENERAL INFORMATION:

- Elevations are based on NAVD88 derived from on-site RTK GPS observations and OPUS Solution File TR8464578843816.
- TBM A = 498.76 - Chiseled "X" on North side of manhole rim on the North side of Steller Drive near the Southwest corner of Lot 57.
- TBM B = 498.53 - Chiseled "X" on South side of manhole rim near the common corner of Lots 57, 58 & 59.
- Topographic survey provided by Morley and Associates was received on 12/14/2022.
- As-built survey of Subdivision Dry Basin #1 was performed by Three i Design on 5/26/2023.
- No 100yr floodplain, floodways, or floodway fringes exist within the project area. See FEMA FIRM Map # 18163C0175D for Vanderburgh County with an effective date of 3/17/11. Firmette map is included on sheet C2.2.
- A USDA NRCS Soils Map is included on sheet C2.2.
- A Construction Stormwater General Permit will be applied for with IDEM via a NOI. No other State or Federal permits are necessary and therefore will not affect the timimg and/or construction of the Drainage Plan.
- There are no known sinkholes, regulated drains, farm drains, septic tank systems, seeps, springs, caves, shafts, faults, uncapped abandoned wells or dry wells, or other such geological features visible, or of record.
- The owner's maintenance and grounds crew will be responsible for operation and maintenance of post-construction stormwater measures on the subject properties (project site). Per the subdivision plat, "the individual lot owner(s) shall be responsible, including financially, for maintaining that part of the storm water drainage system and its easements which exist on his or her property in working order." See subdivision plat for rules on right of entry through Drainage Easements and LMDE's for the purposes of inspection and ensuring that the stormwater drainage system is functioning as originally designed.

GENERAL DRAINAGE NOTES:

1. INSTALL EROSION CONTROL MEASURES PRIOR TO SOIL DISTURBING ACTIVITY.
2. TRANSFER TBM B TO A SAFE LOCATION OUTSIDE OF CONSTRUCTION AREA PRIOR TO REMOVAL OF SANITARY SEWER MANHOLE.
3. PLACE STORM SEWER SYSTEM AS SHOWN ON THE PLANS. REFER TO STRUCTURE AND PIPE TABLES ON THIS SHEET FOR ALL DETAILED INFORMATION.
4. ALL STORM SEWER PIPE SHALL BE DUAL WALL HDPE SOILTIGHT PIPE IN ACCORDANCE WITH ASTM F2648 UNLESS SPECIFIED OTHERWISE. REFER TO PIPE BACKFILL DETAIL 1, SHEET C4.1.
5. ALL CASTINGS ARE TO BE EAST JORDAN IRON WORKS UNLESS APPROVED OTHERWISE.
6. ALL STRUCTURES ARE TO BE PRE-CAST REINFORCED CONCRETE WITH PRE-FABRICATED OPENINGS. ALL PENETRATIONS SHALL BE SEALED WITH NON-SHRINK GROUT.
7. PROVIDE ALL FITTINGS AS REQUIRED FOR STORM SEWER LAYOUT SHOWN.
8. TRANSITION 1" GUTTER PAN CROSS SLOPE TO 2" GUTTER PAN SLOPE REQUIRED FOR EJIW 7030 CASTING, 1' EITHER SIDE OF CASTING (ONE SIDE ONLY ON CORNER CURB INLETS).
9. TRANSITION GUTTER PAN SLOPE TO FLAT OVER 1' ON SIDE PERPENDICULAR TO CASTING OF CORNER CURB INLETS.

DETENTION NOTE:

THIS PROJECT AREA WAS INCLUDED IN THE SUBDIVISION DETENTION DESIGN. THE EXISTING SUBDIVISION HAS TWO DRY DETENTION BASINS. THIS PROJECT AREA DRAINS TO BOTH EXISTING DRY DETENTION BASINS. DRY BASIN #1 IS LOCATED IN THE NORTHEASTERN AREA OF THE SUBDIVISION. DRY BASIN #2 IS LOCATED IN THE SOUTHWESTERN AREA OF THE SUBDIVISION. THE 25-YEAR REQUIRED STORAGE VOLUME FOR DRY BASIN #1 IS 11,553.4 C.F. THE AS-BUILT DRY BASIN #1 HAS AN EXISTING VOLUME OF 11,790.90 C.F. TAKEN AT AN ELEVATION OF 485.43, WHICH IS THE BOTTOM OF THE EMERGENCY OVERFLOW.

(#) DRAINAGE KEYNOTES:

1. RAISE RIM OF EXISTING STRUCTURE FROM 487.67 TO 489.06 VIA ADDING CONCRETE ADJUSTING RINGS AND GROUT.
2. I.E AT FACE OF BUILDING = 496.00. INSTALL 8" DISSIMILAR PIPE TYPE COUPLING AND 12"-8" REDUCER. SEE P-20 IN STORM SEWER PIPE DATA TABLE.
3. SEE PLUMBING PLANS FOR STORM SEWER CLEANOUT DETAILS AND SPECIFICATIONS. I.E AT FACE OF BUILDING = 497.00. INSTALL 3" DISSIMILAR PIPE TYPE COUPLING, (2) 3" 45° VERTICAL FITTINGS TO DROP I.E. TO 496.00. INSTALL 12"-3" REDUCER BEFORE CLEANOUT AND 12" SCH 40 PVC 22.5° HORITZONTAL FITTING AFTER CLEANOUT. SEE P-6 IN STORM SEWER PIPE DATA TABLE.
4. SEE PLUMBING PLANS FOR STORM SEWER CLEANOUT DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT CLEANOUT IS FLUSH WITH PAVEMENT. I.E. AT FACE OF BUILDING = 496.00. INSTALL 8" DISSIMILAR PIPE TYPE COUPLING AND 12-8" REDUCER . SEE P-23 IN STORM SEWER PIPE DATA TABLE.
5. SEE PLUMBING PLANS FOR STORM SEWER CLEANOUT DETAILS AND SPECIFICATIONS. I.E AT FACE OF BUILDING = 497.00. INSTALL 3" DISSIMILAR PIPE TYPE COUPLING, AND (2) 3" 45° VERTICAL FITTINGS TO DROP I.E. TO 496.00. INSTALL 12"-3" REDUCER BEFORE CLEANOUT. SEE P-8 IN STORM SEWER PIPE DATA TABLE
6. I.E AT FACE OF BUILDING = 496.00. INSTALL 8" DISSIMILAR PIPE TYPE COUPLING AND 12"-8" REDUCER. SEE P-25 IN STORM SEWER PIPE DATA TABLE.
7. CONTRACTOR SHALL ENSURE MIN. 18" VERTICAL SEPARATION.
8. CONCRETE GUTTER SWALE BETWEEN FLARED END SECTIONS. SEE DETAIL 6/C4.1.
9. PRECAST CONCRETE FLARED END SECTION. SEE PIPE TABLE FOR SIZE AND DETAIL 5/C4.1.
10. CORE DRILL EXISTING STORM SEWER STRUCTURE TO ACCEPT 18" Ø HDPE AT I.E. = 482.82

STORM STRUCTURE DATA

STR. NO.	STRUCTURE TYPE	NORTHING	EASTING	RIM ELEV	CURB/CASTING	INVERT IN	INVERT OUT
STR-1	24" X 36", PRECAST	991835.41	2786091.80	497.84	7030, T1 BACK, M6 GRATE		P-1: 12", INV: 495.15 (NE)
STR-2	24" X 36", PRECAST	991906.35	2786138.69	496.06	7030, T1 BACK, M6 GRATE	P-1: 12", INV: 493.45 (SW)	P-2: 12", INV: 493.43 (E)
STR-3	24" X 36", PRECAST	991905.67	2786192.68	495.83	7030, T1 BACK, M6 GRATE	P-2: 12", INV: 493.16 (W)	P-3: 12", INV: 493.14 (E)
STR-4	24" X 36", PRECAST	991905.10	2786237.68	495.94	7030, T1 BACK, M6 GRATE	P-3: 12", INV: 492.87 (W)	P-4: 12", INV: 492.85 (SE)
STR-5	24" X 36", PRECAST	991865.34	2786283.45	495.60	7030, T1 BACK, M6 GRATE	P-4: 12", INV: 492.36 (NW)	P-5: 12", INV: 492.34 (SE)
STR-6	24" X 36", PRECAST	991782.29	2786340.98	495.45	7030, T1 BACK, M6 GRATE	P-5: 12", INV: 491.33 (NW) P-6: 12", INV: 492.66 (W)	P-7: 12", INV: 491.31 (S)
STR-7	24" X 36", PRECAST	991666.98	2786372.82	494.35	7030, T1 BACK, M6 GRATE	P-7: 12", INV: 490.12 (N) P-8: 12", INV: 491.55 (W)	P-9: 12", INV: 490.10 (S)
STR-8	24" X 36", PRECAST	991608.14	2786383.46	493.49	7030, T1 BACK, M6 GRATE	P-9: 12", INV: 489.50 (N)	P-10: 15", INV: 489.10 (S)
STR-9	24" X 36", PRECAST	991581.22	2786388.44	491.70	7030, T1 BACK, M6 GRATE	P-10: 15", INV: 488.83 (N)	P-11: 15", INV: 488.81 (S)
STR-10	24" X 36", PRECAST	991537.97	2786101.51	496.43	7030, T1 BACK, M6 GRATE		P-12: 12", INV: 493.87 (E)
STR-11	24" X 36", PRECAST	991536.56	2786209.50	496.34	7030, T1 BACK, M6 GRATE	P-12: 12", INV: 493.33 (W)	P-13: 12", INV: 493.31 (E)
STR-12	24" X 36", PRECAST	991535.62	2786281.49	495.65	7030, T1 BACK, M6 GRATE	P-13: 12", INV: 492.95 (W)	P-14: 12", INV: 491.59 (E)
STR-13	24" X 36", PRECAST	991534.56	2786362.49	492.39	7030, T1 BACK, M6 GRATE	P-14: 12", INV: 489.56 (W)	P-15: 12", INV: 489.54 (NE)
STR-14	48" DIA, PRECAST	991552.21	2786389.82	491.57	7030, T1 BACK, M6 GRATE	P-11: 15", INV: 488.52 (N) P-15: 12", INV: 489.06 (SW)	P-16: 15", INV: 486.31 (E)
STR-15	24" X 36", PRECAST	991580.32	2786457.53	486.39	7030, T1 BACK, M6 GRATE		P-17: 12", INV: 483.19 (S)
STR-16	24" X 36", PRECAST	991551.33	2786457.15	486.39	7030, T1 BACK, M6 GRATE	P-17: 12", INV: 483.04 (N)	P-18: 12", INV: 483.02 (W)
STR-17	24" X 36", PRECAST	991551.76	2786422.90	489.02	7030, T1 BACK, M6 GRATE	P-16: 15", INV: 485.65 (W) P-18: 12", INV: 482.85 (E)	P-19: 18", INV: 482.83 (S)
STR-18	24" X 24", PRECAST	991799.32	2786101.37	498.73	1020 FRAME, VENTED GRATE	P-20: 12", INV: 495.95 (E)	P-21: 12", INV: 495.95 (SW)
STR-19	24" X 24", PRECAST	991783.26	2786065.67	499.13	1020 FRAME, VENTED GRATE	P-21: 12", INV: 495.75 (NE)	P-22: 12", INV: 495.75 (S)
STR-20	24" X 24", PRECAST	991714.58	2786064.81	499.33	1020 FRAME, VENTED GRATE	P-22: 12", INV: 495.48 (N) P-23: 12", INV: 495.68 (E)	P-24: 15", INV: 495.48 (S)
STR-21	24" X 36", PRECAST	991635.25	2786089.29	497.95	7030, T1 BACK, M6 GRATE	P-25: 12", INV: 495.71 (E)	P-26: 12", INV: 495.40 (W)
STR-22	48" DIA, PRECAST	991635.58	2786063.81	498.94	1020 FRAME, VENTED GRATE	P-24: 15", INV: 495.16 (N) P-26: 12", INV: 495.25 (E)	P-27: 18", INV: 495.16 (S)
STR-23	48" DIA, PRECAST	991524.42	2786064.58	498.44	7030, T1 BACK, M6 GRATE	P-27: 18", INV: 494.72 (N)	P-28: 18", INV: 494.72 (S)
STR-24	48" DIA, PRECAST	991465.06	2786063.81	497.85	7030, T1 BACK, M6 GRATE	P-28: 18", INV: 494.48 (N)	P-29: 18", INV: 494.48 (W)
STR-25	48" DIA, PRECAST	991465.37	2786040.81	497.85	7030, T1 BACK, M6 GRATE	P-29: 18", INV: 494.39 (E)	P-30: 18", INV: 494.39 (SW)
STR-26	CONCRETE FLARED END SECTION	991424.94	2786022.13	495.80	Reinforced Concrete	P-30: 18", INV: 494.21 (NE)	

NOTE: RIM ELEVATIONS FOR CURB INLETS ARE TO THE EDGE OF PAVEMENT

STORM PIPE DATA

NAME	SIZE	TYPE	LENGTH	SLOPE	UPSTREAM STR	DOWNSTREAM STR
P-1	12"	HDPE, ST	82	2.00%	STR-1	STR-2
P-2	12"	HDPE, ST	51	0.50%	STR-2	STR-3
P-3	12"	HDPE, ST	42	0.60%	STR-3	STR-4
P-4	12"	HDPE, ST	57	0.80%	STR-4	STR-5
P-5	12"	HDPE, ST	98	1.00%	STR-5	STR-6
P-6	12"	PVC PIPE	102	3.00%		STR-6
P-7	12"	HDPE, ST	116	1.00%	STR-6	STR-7
P-8	12"	PVC PIPE	130	3.00%		STR-7
P-9	12"	HDPE, ST	57	1.00%	STR-7	STR-8
P-10	15"	HDPE, ST	25	1.00%	STR-8	STR-9
P-11	15"	HDPE, ST	26	1.00%	STR-9	STR-14
P-12	12"	HDPE, ST	105	0.50%	STR-10	STR-11
P-13	12"	HDPE, ST	69	0.50%	STR-11	STR-12
P-14	12"	HDPE, ST	78	2.50%	STR-12	STR-13
P-15	12"	HDPE, ST	29	1.50%	STR-13	STR-14
P-16	15"	HDPE, ST	30	2.00%	STR-14	STR-17
P-17	12"	HDPE, ST	27	0.50%	STR-15	STR-16
P-18	12"	HDPE, ST	31	0.50%	STR-16	STR-17
P-19	18"	HDPE, ST	4	1.01%	STR-17	
P-20	12"	PVC PIPE	4	1.00%		STR-18
P-21	12"	HDPE, ST	37	0.50%	STR-18	STR-19
P-22	12"	HDPE, ST	67	0.40%	STR-19	STR-20
P-23	12"	PVC PIPE	30	1.00%		STR-20
P-24	15"	HDPE, ST	76	0.40%	STR-20	STR-22
P-25	12"	PVC PIPE	5	2.01%		STR-21
P-26	12"	HDPE, ST	22	0.60%	STR-21	STR-22
P-27	18"	HDPE, ST	107	0.40%	STR-22	STR-23
P-28	18"	HDPE, ST	55	0.40%	STR-23	STR-24
P-29	18"	HDPE, ST	19	0.40%	STR-24	STR-25
P-30	18"	HDPE, ST	43	0.40%	STR-25	STR-26

NOTE: LENGTHS ARE TO THE CENTER OF STRUCTURES.

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Revisions:

#	Description	Date
1	ADDENDUM 1	4/27/2023
2	PR-002	6/15/2023
3	PR-004	6/27/2023

Designed By:	Drawn By:	Checked By:
BLL	RMY	LAM

APPROVED
JUL 11 2023
VANDERBURGH COUNTY DRAINAGE BOARD

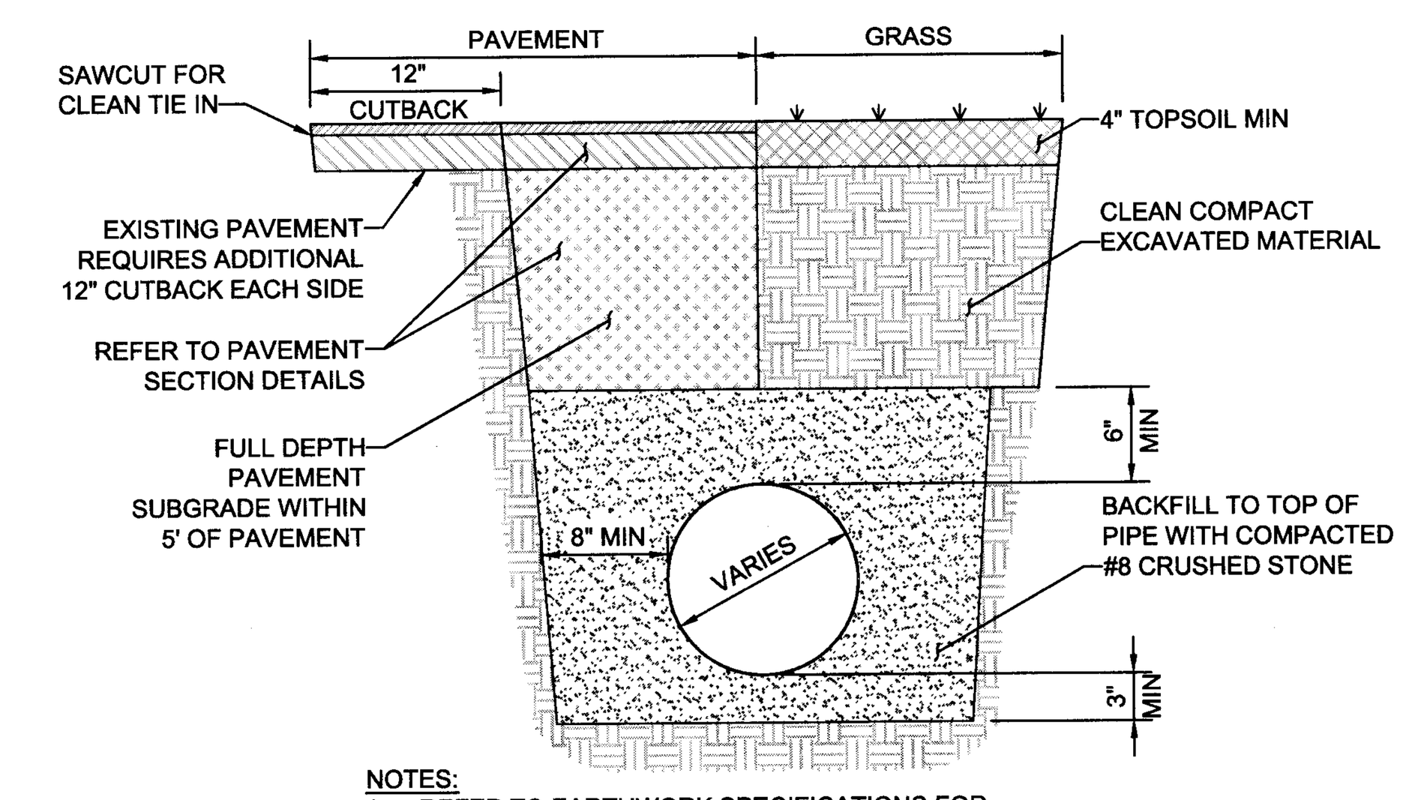
Sheet title: SITE DRAINAGE PLAN

Architect's Project No: 2210-323

Date: April, 2023

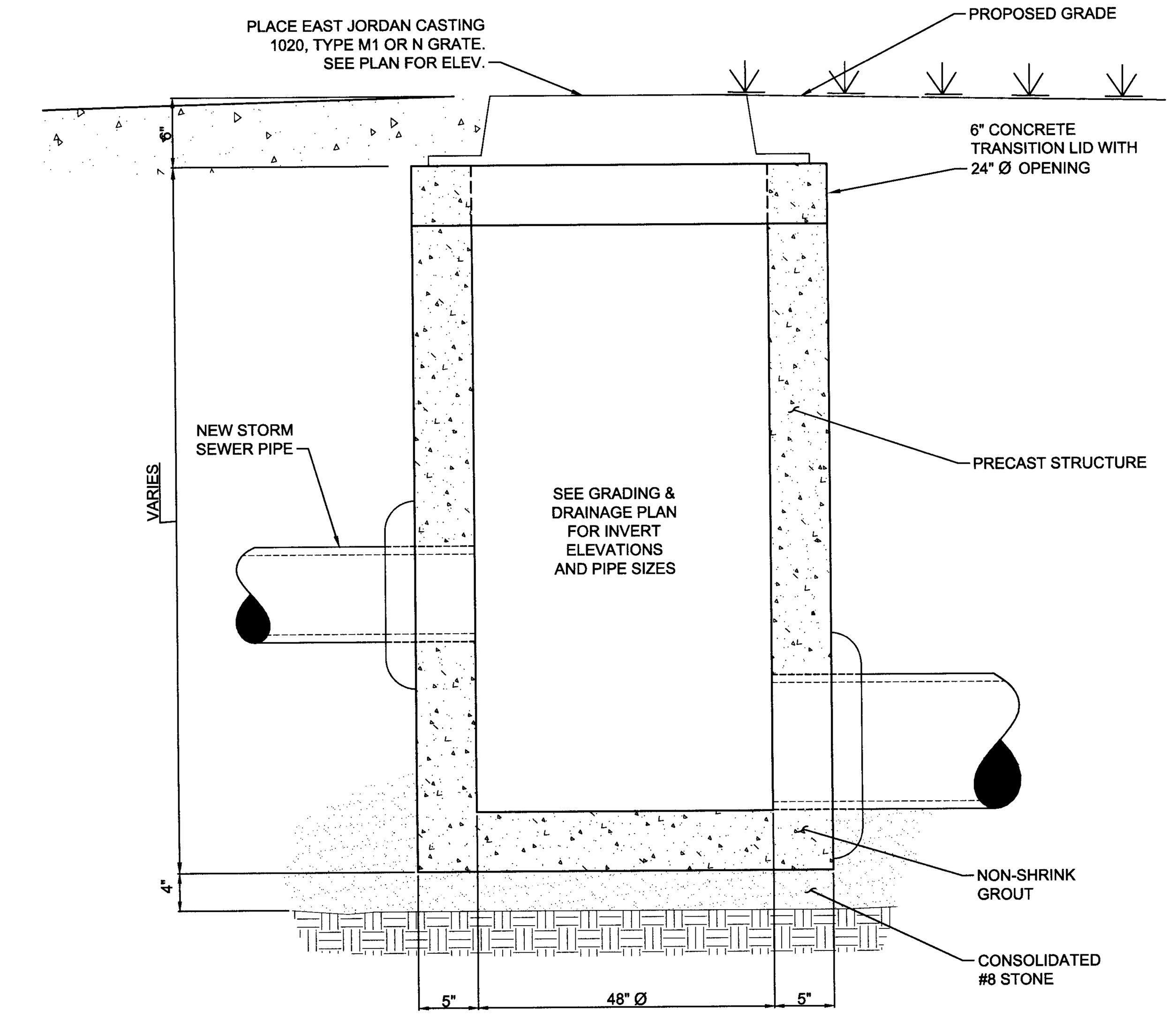
Drawing No: C4.0

REFERENCES:

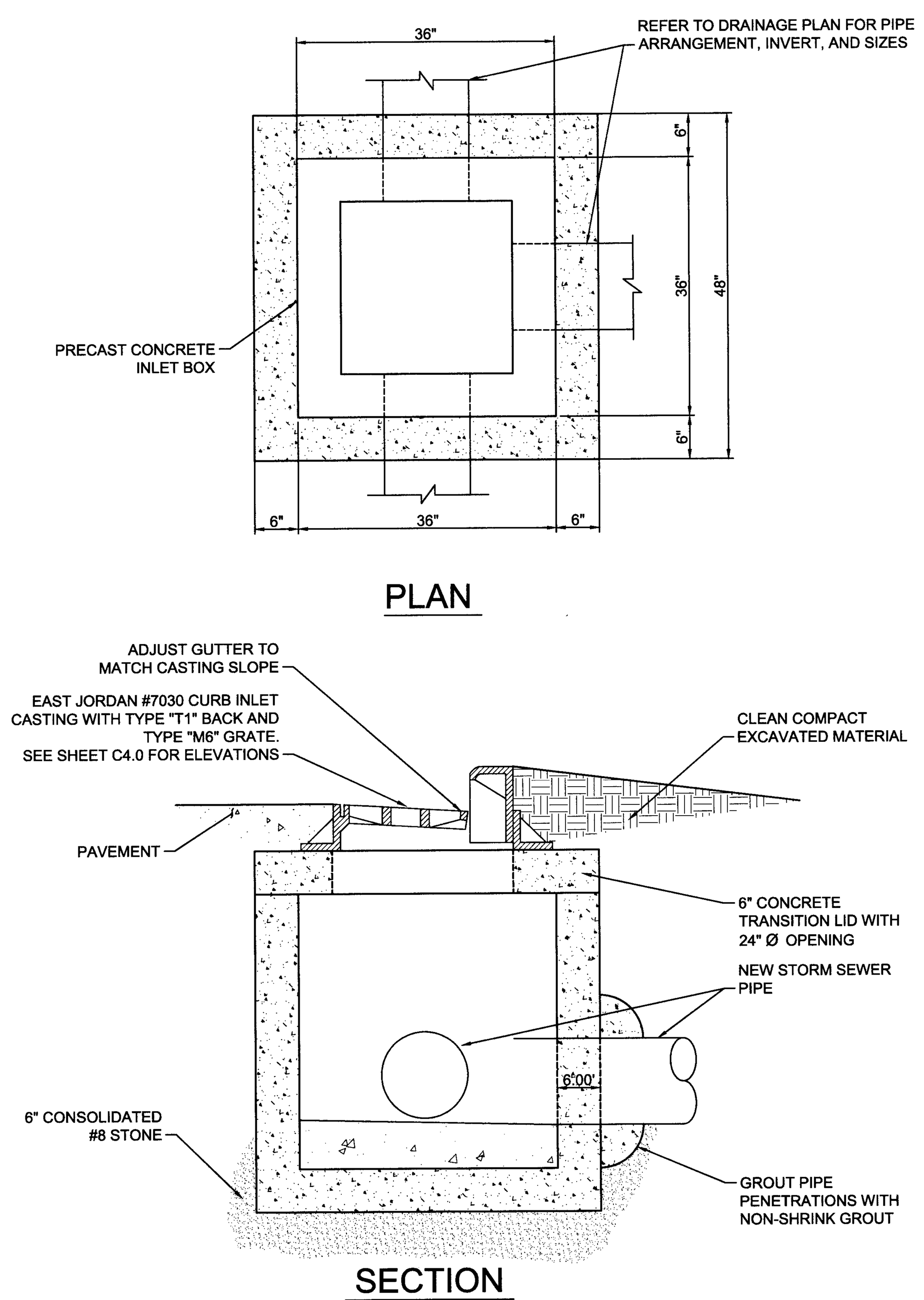


NOTES:
1. REFER TO EARTHWORK SPECIFICATIONS FOR BACKFILL COMPACTION REQUIREMENTS
2. LOCATE AND PROTECT ALL EXISTING UTILITY CROSSINGS.
3. USE TRENCH BOXES PER OSHA REQUIREMENTS AND TO LIMIT TRENCH WIDTH.

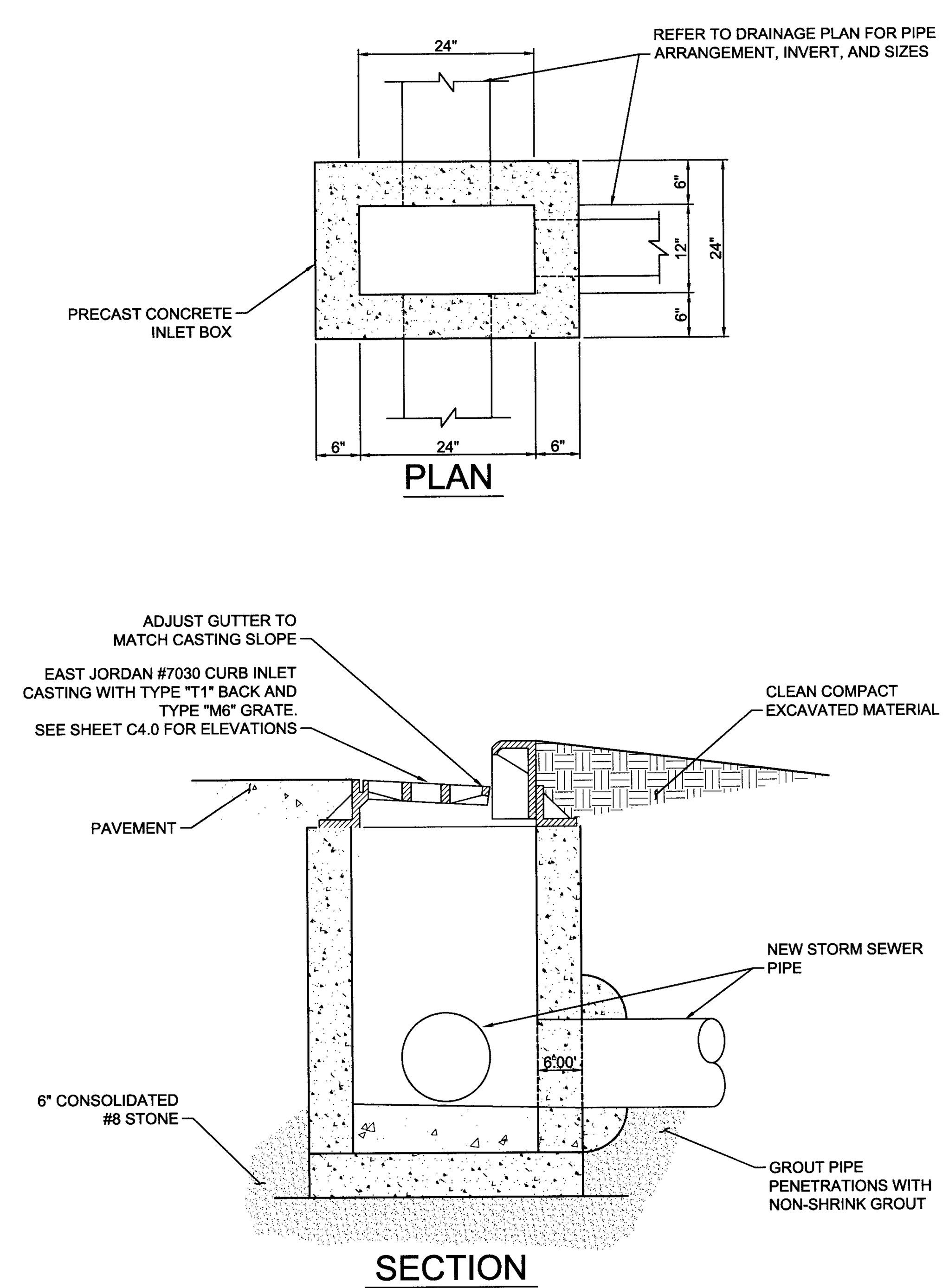
1 / C4.0 **TRENCH BACKFILL**
SCALE: 1" = 1'-0"



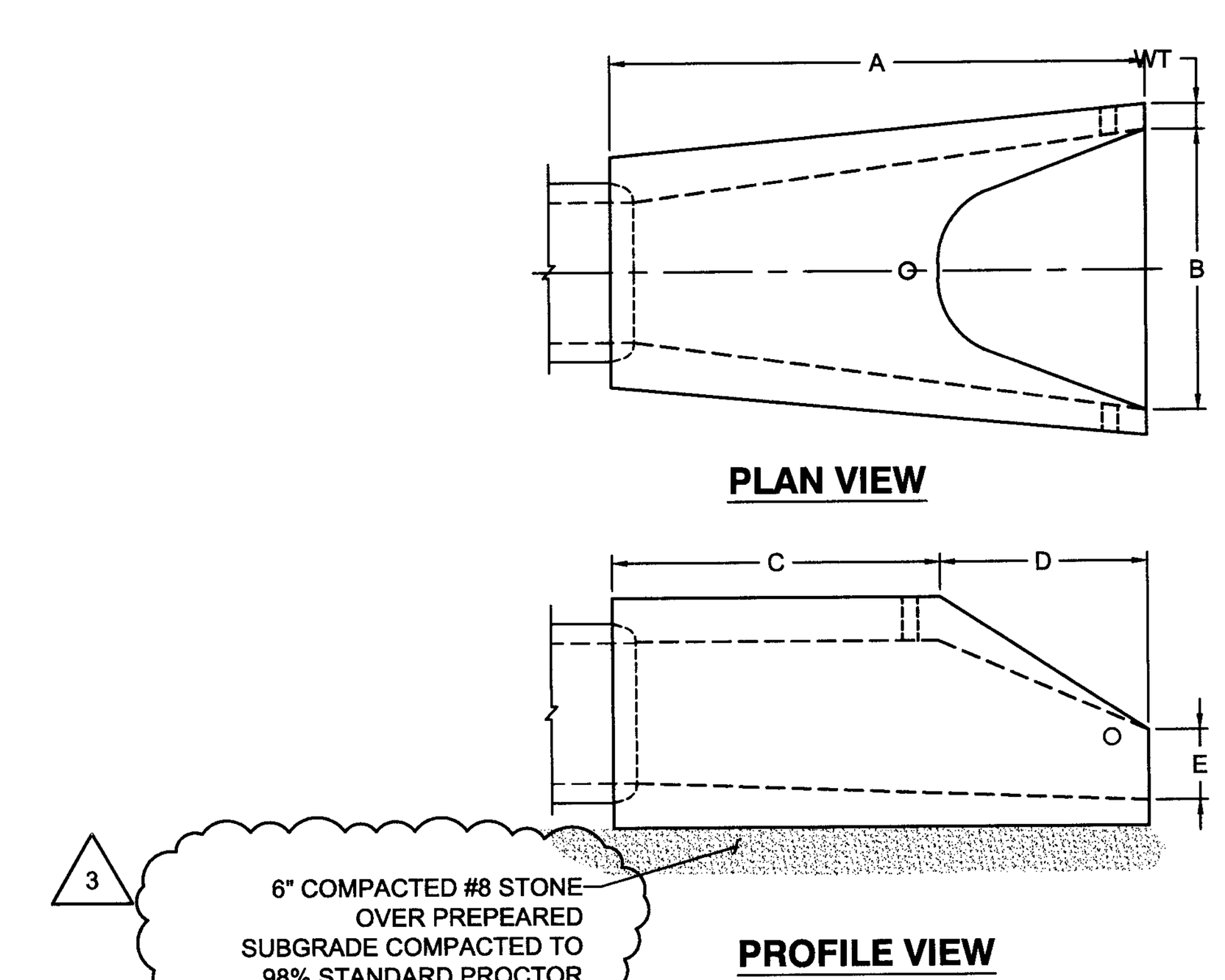
2 / C4.0 **AREA DRAIN**
SCALE: 1"=1'-0"



3 / C4.0 **TYPICAL PRECAST CATCH BASIN DETAIL**
SCALE: 3/4"=1'-0"

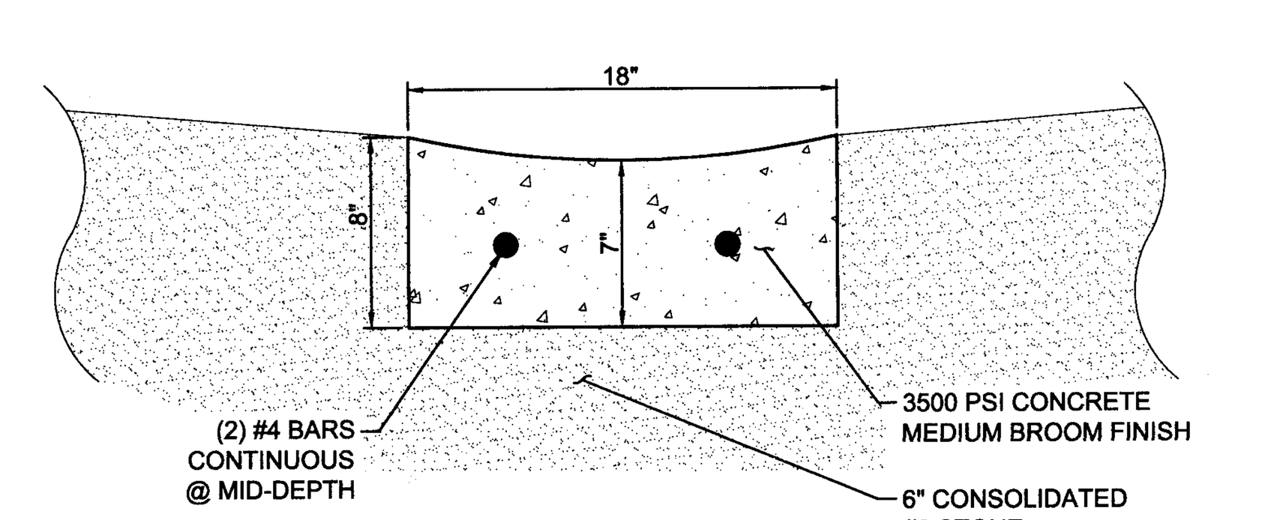


4 / C4.0 **TYPICAL PRECAST CATCH BASIN DETAIL**
SCALE: 3/4"=1'-0"

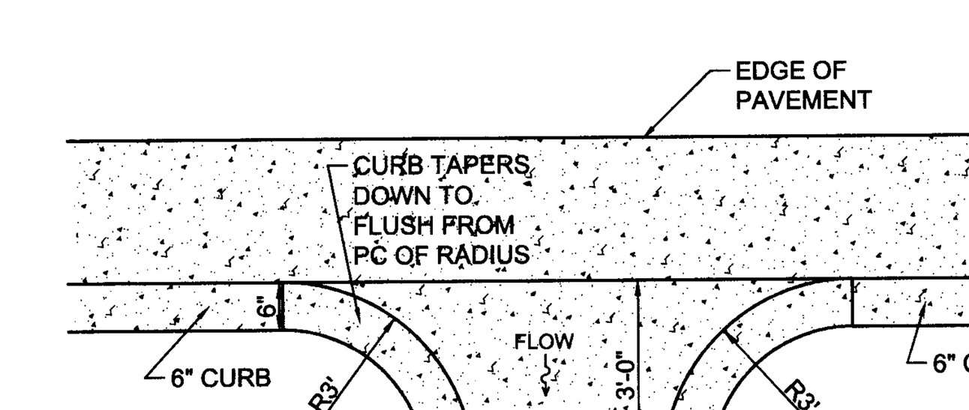


SIZE	WT	A	B	C	D	E	WEIGHT
12"	2-1/4"	73-3/4"	23-3/4"	49-1/2"	24-1/4"	8"	530 LBS
15"	2-1/4"	73"	30"	46"	27"	9"	900 LBS
18"	2-1/2"	73"	36"	46"	27"	11-1/2"	1,000 LBS
24"	2-3/4"	74"	48"	30"	44"	12"	1,600 LBS
30"	3-1/2"	73-3/4"	60"	19-3/4"	54"	12"	2,250 LBS
36"	4"	97-3/4"	72"	34-3/4"	63"	16-3/4"	4,480 LBS

5 / C4.0 **PRECAST CONCRETE FLARED END SECTION**
SCALE: 1/2" = 1'-0"



6 / C4.0 **CONCRETE GUTTER SWALE**
SCALE: 1-1/2" = 1'-0"



7 / C4.0 **CURB TURNOUT DETAIL**
SCALE: 1/2" = 1'-0"

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No. PE11300304
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PROFESSIONAL ENGINEER
Lyle Mehringer
4/14/23

Revisions:

#	Description	Date
1	ADDENDUM 1	4/27/2023
2	PR-002	6/15/2023
3	PR-004	6/27/2023

Designed By:	Drawn By:	Checked By:
BLL	RMY	LAM

APPROVED
JUL 1 1 2023
VANDERBURGH COUNTY DRAINAGE BOARD

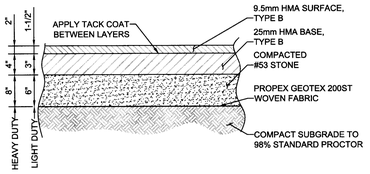
Sheet title:
DRAINAGE DETAILS

Architect's Project No: 2210-323
Date: April, 2023

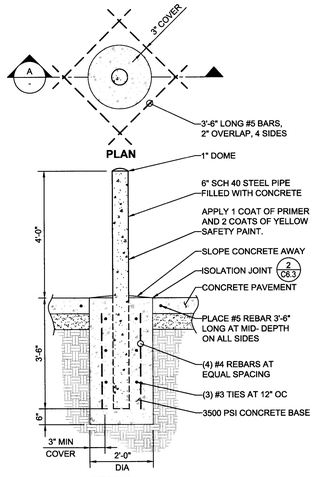
Drawing No:
C4.1

Jun 28, 2023 - 1:15pm L:\Civil 3D 2023\22323A Deaconess MOB Felstead Rd\2-DWG\22323A Details and Specs.dwg Plotted By: blewis

REFERENCES:



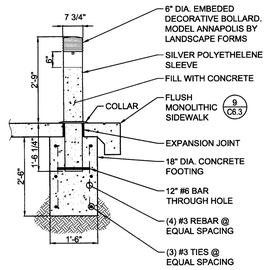
1 C6.0 ASPHALT PAVEMENT SECTION
SCALE: 1" = 1'-0"



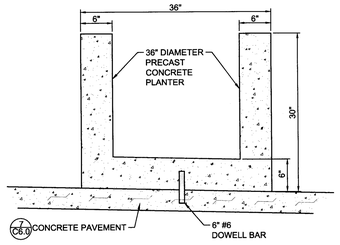
NOTES:
1. SEE PLAN FOR BOLLARD LOCATION.

2 C6.0 STANDARD BOLLARD
SCALE: 1/2" = 1'-0"

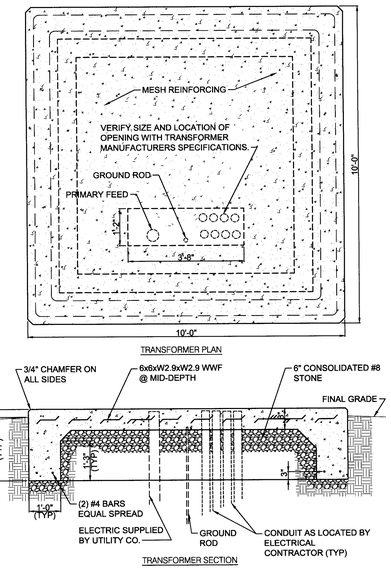
NOTE:
- PLACE BOLLARD 18" FROM FACE OF CURB.



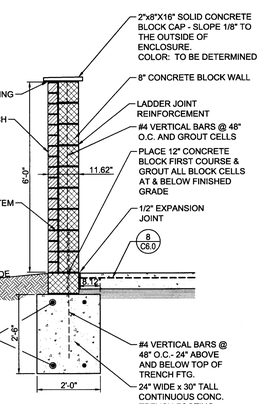
3 C6.0 DECORATIVE BOLLARD
SCALE: 1/2" = 1'-0"



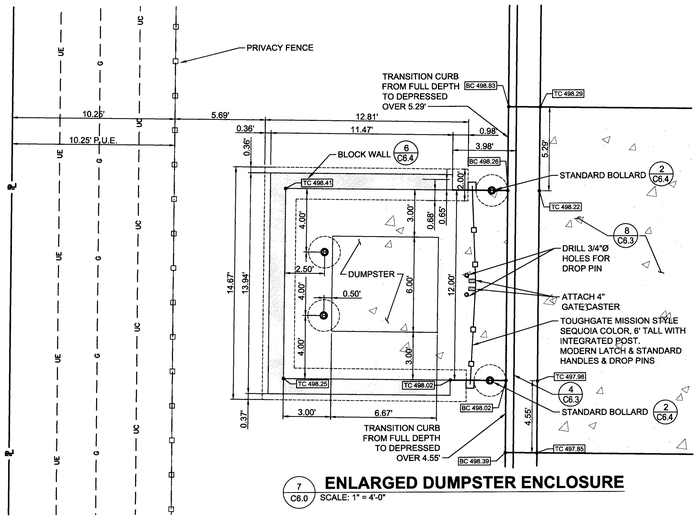
4 C6.0 CONCRETE PLANTER
SCALE: 1" = 1'-0"



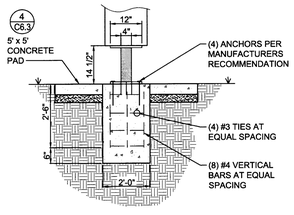
5 C3.0 CONCRETE TRANSFORMER PAD
SCALE: 1/2" = 1'-0"



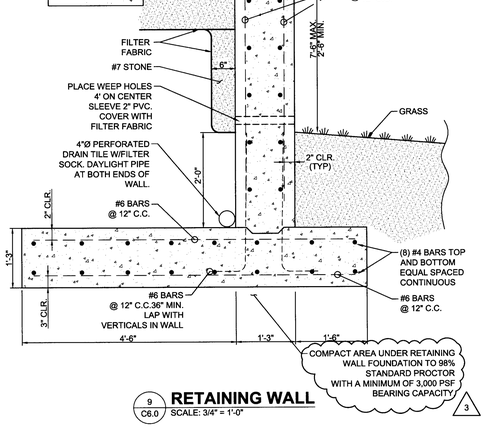
6 C6.0 ENCLOSURE WALL SECTION A
SCALE: 1/2" = 1'-0"



7 C6.0 ENLARGED DUMPSTER ENCLOSURE
SCALE: 1" = 4'-0"

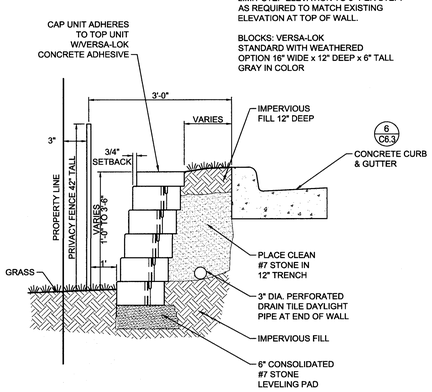


8 C6.0 MAILBOX CONCRETE BASE
SCALE: N.T.S.



9 C6.0 RETAINING WALL
SCALE: 3/4" = 1'-0"

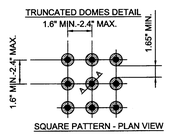
NOTES:
1. HANDRAILS SHALL BE 1-1/2" SCH 40 GALVANIZED PIPE WITH ROUNDED ENDS EXTENDING 2'-0" PAST END POST.
2. TWO RAIL SYSTEM WITH TOP RAIL 3'-6" ABOVE RETAINING WALL AND LOWER RAIL 21" ABOVE RETAINING WALL.
3. PLACE POST AT 5'-0" CENTER TO CENTER SPACING.
4. ATTACH HANDRAIL TO RETAINING WALL WITH BASE PLATE AND ANCHOR BOLTS.
5. DISTANCE WEST FROM WALL TO R.O.W. VARIES, BUT IS 14' AT THE NARROWEST POINT.

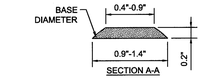


10 C6.0 MODULAR BLOCK RETAINING WALL
SCALE: NTS

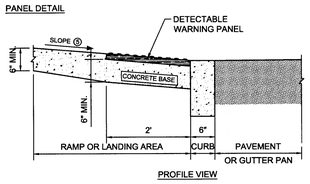
GENERAL NOTES

1. DETECTABLE WARNING SURFACES SHALL BE CAST-IN-PLACE BY ADA SOLUTIONS, COLONIAL RED COLOR.
2. DETECTABLE WARNING SURFACES SHALL CONTAIN TRUNCATED DOMES THAT ARE ALIGNED IN A SQUARE OR RADIAL GRID PATTERN. WHERE TRUNCATED DOMES ARE ARRAYED RADIALLY, THE DIAMETER AND CENTER-TO-CENTER SPACING MAY DIFFER AS LONG AS THE DIAMETER AND SPACING STAYS WITHIN THE RANGES SPECIFIED.
3. DETECTABLE WARNING SURFACES SHALL EXTEND 2' IN THE DIRECTION OF PEDESTRIAN TRAVEL FROM THE ROAD TO THE CURB RAMP AND SHALL EXTEND THE FULL WIDTH OF THE RAMP OR LANDING AREA.
4. ALL DETECTABLE WARNING SURFACES SHALL BE PLACED DIRECTLY BEHIND THE CURB LINE FOR THE ENTIRE REQUIRED WIDTH AND LENGTH AND SHALL FOLLOW THE RADIUS OF THE CURB LINE IF A RADIUS EXIST.
5. DETECTABLE WARNING SURFACES SHALL FOLLOW THE CROSS SLOPE AND RUNNING SLOPE OF THE LANDING AREA OR RAMP IN WHICH THEY ARE LOCATED IN.
6. SURFACE EDGES OF DETECTABLE WARNING SURFACES SHALL BE FLUSH WITH THE ADJOINING SURFACE OF THE CONCRETE.
7. THE DETECTABLE WARNING SURFACE SHALL NOT BE PLACED ACROSS A GRADE BREAK.
8. PANELS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.



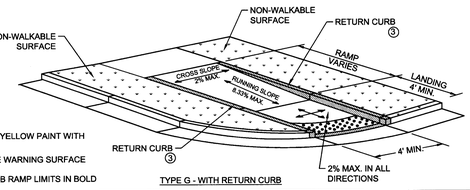


PANEL DETAIL



PROFILE VIEW

11 C6.0 DETECTABLE WARNING SURFACE
SCALE: NONE



LEGEND

= REFLECTIVE YELLOW PAINT WITH SILICA SAND

= DETECTABLE WARNING SURFACE

= TYPE G CURB RAMP LIMITS IN BOLD

TYPE G - WITH RETURN CURB

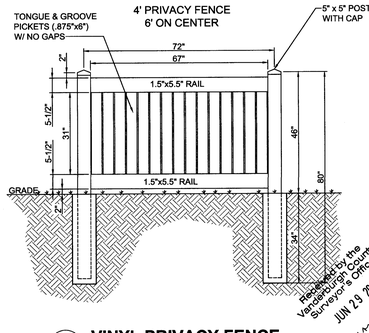
GENERAL NOTES

1. TYPE G CURB RAMPS SHALL CONFORM TO THE *TYPE G CURB RAMP COMPONENT REQUIREMENTS* TABLE.
2. SEE DETAIL 11 (THIS SHEET), *DETECTABLE WARNING SURFACE*, FOR DETECTABLE WARNING SURFACE REQUIREMENTS.

3 A RETURN CURB SHALL BE REQUIRED BETWEEN THE CURB RAMP AND THE NON-WALKABLE SURFACE WHEN THE NON-WALKABLE SURFACE CONTAINS A STEEP SLOPE OR IS 4" OR GREATER HIGHER THAN THE LANDING AREA.

TYPE G CURB RAMP COMPONENT REQUIREMENTS				
SECTION	LENGTH	WIDTH	THICKNESS	MATERIAL
RAMP	VARIES	4' MIN. NOT INCLUDING BORDER	6" MIN.	PCC (3500 psi)
LANDING AREA	4' MIN.	4' MIN. NOT INCLUDING BORDER	6" MIN.	PCC (3500 psi)
DETECTABLE WARNING SURFACE	2' IN DEPTH DIRECTLY BEHIND CURB ALONG ENTIRE RADIUS NOT INCLUDING BORDER		SEE DETAIL 11 (THIS SHEET)	SEE DETAIL 11 (THIS SHEET)
RETURN CURB	TOTAL LENGTH OF RAMP AND LANDING AREA	6"	VARIES	PCC (3500 psi)
BASE	ENTIRE AREA OF CURB RAMP		4" MIN.	CONSOLIDATED #8 STONE

12 C6.0 TYPE G - ONE DIRECTIONAL CURB RAMP
SCALE: NONE



Reviewed by the Vanderburgh County Surveyor's Office
JUN 29 2023
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13 C6.0 VINYL PRIVACY FENCE
SCALE: N.T.S.

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4/14/23

Revisions:

#	Description	Date
1	ADDENDUM 1	4/27/2023
2	PR-002	6/15/2023
3	PR-004	6/27/2023

Designed By:	Drawn By:	Checked By:
BLL	RMY	LAM

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JUL 11 2023
VANDERBURGH COUNTY DRAINAGE BOARD

Sheet title:
CONSTRUCTION DETAILS
2 OF 2

Architect's Project No: 2210-323
Date: April, 2023

Drawing No:
C6.4