

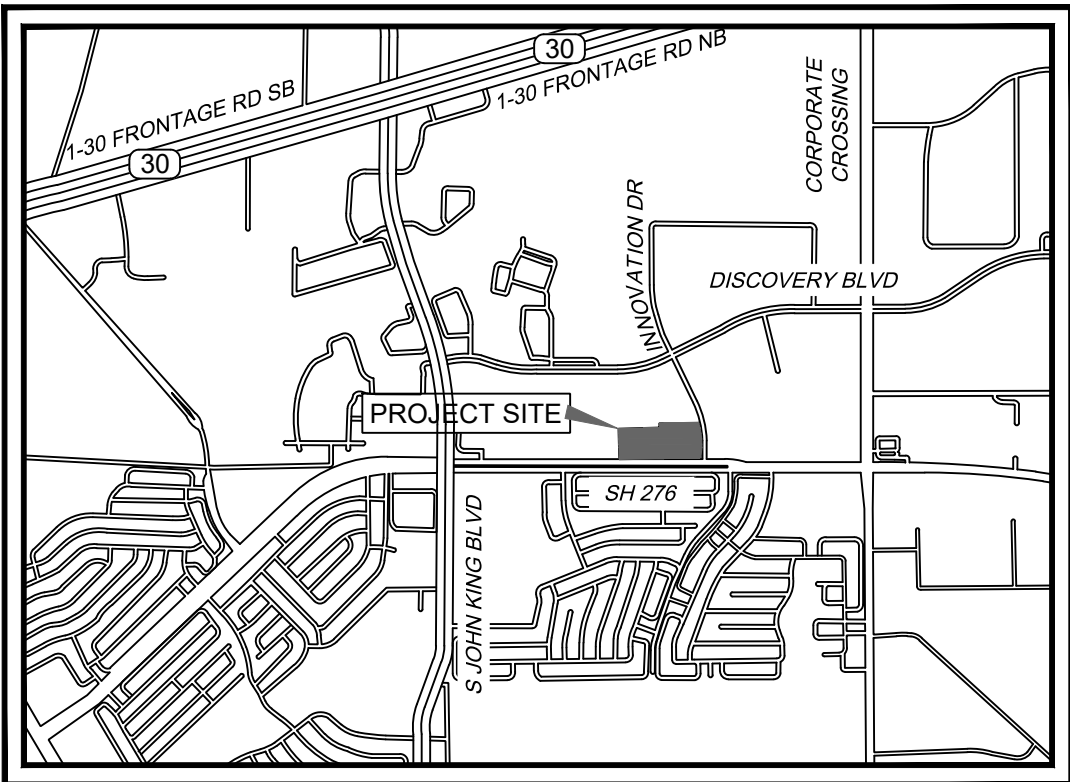
PLANS FOR THE CONSTRUCTION OF
WATER, SEWER, PAVING, GRADING
& DRAINAGE IMPROVEMENTS
TO SERVE
INTEGRATED DEFENSE PRODUCTS TM

LOT 6, BLOCK B, ROCKWALL
TECHNOLOGY PARK ADDITION
THE CITY OF ROCKWALL,
ROCKWALL COUNTY COUNTY, TEXAS

DEVELOPER:
LINKS CONSTRUCTION, LLC
525 S. LOOP 288, SUITE 105
DENTON, TX 76205
PHONE: (940) 783-0920
CONTACT: ALISON WINGET
awinget@linksconstruction.com

ENGINEER:
KIRKMAN ENGINEERING, LLC
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
PHONE: (817) 488-4960
CONTACT: JEREMY NELSON, P.E.
jeremy.nelson@trustke.com

SURVEYOR:
BARTON CHAPA SURVEYING
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
PHONE: (817) 864-1957
CONTACT: JACK BARTON, RPLS
jack@bcsdfw.com



VICINITY MAP
N.T.S.

RECORD DRAWING
THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE APPROVED SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDUM CHANGE ORDERS AND INFORMATION PROVIDED BY THE CONTRACTOR. TO THE BEST OF OUR KNOWLEDGE KIRKMAN ENGINEERING, LLC HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.
BY: JEREMY B. NELSON, P.E. DATE: 10/02/2023



PROJECT NO. LNK21005

MAY 2022

SHEET LIST TABLE

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FP	FINAL PLAT SHEET 2 OF 2
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C3.0	SITE PLAN
C4.0	DIMENSIONAL CONTROL PLAN
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PLAN SUBMITTAL/REVIEW LOG

1ST SUBMITTAL - NOT FOR CONSTRUCTION	03/16/2022
2ND SUBMITTAL -NOT FOR CONSTRUCTION	04/12/2022
3RD SUBMITTAL -NOT FOR CONSTRUCTION	05/03/2022
4TH SUBMITTAL - FOR CONSTRUCTION	05/19/2022

REV:	DATE:	DESCRIPTION:

FILENAME: C:\J\LINKS\1005\rockwall\TechnicalDrawings\02_DRAWING - Production\CL10 COVER_LNK21005
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C1.2

FILENAME: C1.1 GENERAL NOTES_LNK21005.dwg
 PLOTTED BY: Michael Helmlich

PAVING NOTES

NO EARTH-DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERMITS ARE OBTAINED AND PERIMETER EROSION CONTROL MEASURES ARE IN PLACE.

- ALL DEMOLITION SHALL BE CLOSELY COORDINATED WITH THE OWNER'S REPRESENTATIVE REGARDING ITEMS TO BE SALVAGED, THOSE TO BE REMOVED, ETC. INCLUDING ANY AND ALL TREE PRESERVATION AND TRANSPLANTING ACTIVITIES, AS OUTLINED IN THE PRE-CONSTRUCTION MEETING. REMOVAL, RELOCATION AND/OR DISPOSAL OF ANY PRE-EXISTING ON-SITE TRASH, DEBRIS, OR STOCKPILES SHALL BE INCLUDED IN THE TOTAL COST OF DEMOLITION AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AT ALL TIMES. THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING AGENCIES REGARDING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
- INGRESS AND EGRESS POINTS, PROPOSED DISPOSAL SITES, AND HAUL ROUTES MUST BE APPROVED BY CITY OFFICIALS PRIOR TO REMOVAL OF DEMOLITION DEBRIS OFF-SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DISCONNECTION OF ALL UTILITIES SERVING THE EXISTING SITE WITH THE APPROPRIATE UTILITY COMPANY, AND SHALL OBTAIN APPROVAL FROM SAME TO COMMENCE DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, BENCHMARKS, CONTROL POINTS, ETC. AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL INCUR ALL COSTS FOR MAINTENANCE AND REPAIR OF THE EXISTING FENCES TO REMAIN, IRRIGATION SYSTEMS TO REMAIN, UTILITY LINES, ETC. AS OUTLINED IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY CABLES (ELECTRIC, TELEPHONE, ETC.) UP TO A DEPTH OF 24 INCHES BELOW GRADE AS PART OF THE BASE BID.
- THE CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY PIPING, CONDUIT, AND CABLES, REGARDLESS OF DEPTH, IN THE AREA OF THE PROPOSED BUILDING(S) FOUNDATIONS.
- NOTES SHOWN HEREON REGARDING SPECIFIC ITEMS OF DEMOLITION ARE GENERAL IN NATURE, AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING IMPROVEMENTS TO THE SATISFACTION OF THE OWNER, AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, AND TO THE EXTENT AS NOTED IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING, CAPPING, OR OTHERWISE TERMINATING UTILITY SERVICE LINES AT EXISTING INTERSECTIONS, ETC. A MINIMUM DISTANCE OF 1 FOOT OUTSIDE THE LIMITS OF THE TRENCH OR EXCAVATION SHALL BE MAINTAINED.
- THE CONTRACTOR SHALL CREATE AMPLE STAGING AND STOCKPILING AREAS FOR THE DELIVERIES OF CONSTRUCTION MATERIALS, CONCRETE DELIVERIES, TOPSOIL, ETC. IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE AND THE PROJECT SPECIFICATIONS.
- IF ASBESTOS, LEAD-BASED ITEMS OR ANY OTHER HAZARDOUS MATERIALS ARE ENCOUNTERED THE CONTRACTOR IS REQUIRED TO FOLLOW ALL LOCAL, STATE, AND FEDERAL GUIDELINES FOR THE CONTAINMENT, REMOVAL, AND DISPOSAL PROCEDURES.

UTILITY NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PRIVATE OR PUBLIC, PRIOR TO MOBILIZATION. CONTRACTOR SHALL VISIT THE SITE AND MAKE ALL NECESSARY OBSERVATIONS AND INSPECTIONS TO FAMILIARIZE THEMSELVES WITH THE SITE AND THE SITE FACILITIES. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION OR DATA, AND, THE CONTRACTOR, SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE.
- CONTRACTOR SHALL, IN BASE BID PROVIDE ALL NECESSARY FITTINGS AND APPURTENANCES REQUIRED TO COMPLETE ALL CONNECTIONS, RESOLVE UTILITY CONFLICTS AND OTHER INCIDENTAL UTILITY WORK SHOWN ON THE PLANS OR CONTAINED IN THE SPECIFICATIONS OR REQUIRED BY GOVERNING AGENCIES TO INCLUDE, BUT NOT LIMITED TO TEMPORARY SERVICES, VALVES, BOXES, METERS, BACKFLOW PREVENTERS, FIRE DEPARTS AND STORM CONNECTIONS, ETC. INCLUDING THE REPAIR OR REPLACEMENT OF ANY EXISTING IRRIGATION SYSTEM. CONTRACTOR SHALL RAISE/LOWER OR ADJUST ALL EXISTING UTILITY MAINS IN CONFLICT WITH PROPOSED UTILITIES AS PART OF THE BASE BID FOR ALL KNOWN OR UNKNOWN LINES.
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 1 WEEK PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND MAKE ARRANGEMENTS FOR ANY AND ALL TEMPORARY UTILITIES, PERMITS, AND AGREEMENTS.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL GIVE THE CITY, RESIDENTS AND BUSINESSES AFFECTED BY ANY ANTICIPATED WATER OR SEWER SERVICE DISRUPTIONS AT LEAST FOURTY-EIGHT (48) HOURS PRIOR NOTICE.
- CONTRACTOR SHALL EXERCISE CAUTION AND MAINTAIN ADEQUATE CLEAR ZONE BETWEEN THE CONTRACTOR'S EQUIPMENT AND ANY POWER LINES.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONES RISERS, WATER VALVES, UTILITIES, ETC. DURING ALL CONSTRUCTION PHASES. CONTRACTOR WILL BE RESPONSIBLE TO REPLACE ANY DAMAGED ITEMS AND RESTORE ANY SERVICES THAT HAVE BEEN DISTURBED. ALL MANHOLES, CLEAN-OUTS, WATER VALVES, FIRE HYDRANTS AND OTHER APPURTENANCES MUST BE ADJUSTED TO FINAL GRADE BEFORE THE OWNER WILL ACCEPT THE WORK.
- RESIDENTS AND BUSINESSES AFFECTED BY ANY ANTICIPATED CITY UTILITIES (INCLUDING SIGNS, VALVES, FIRE HYDRANTS, ETC.) IN ACCORDANCE WITH CITY REQUIREMENTS AND PROVIDE TO THE CITY.
- ALL UTILITIES WITHIN 5' OF PROPOSED BUILDING(S) SHALL ADHERE TO THE MEP'S RECOMMENDATIONS AND OR REQUIREMENTS. CONTRACTOR SHALL PROVIDE STORM DRAIN CONNECTIONS FOR ALL ROOF DRAIN LINES. REFER TO MEP'S PLANS AND RELATED TECHNICAL SPECIFICATIONS. CIVIL UTILITIES (WATER, SANITARY SEWER & STORM SEWER) LIMITS BEGIN 5' OUTSIDE THE BUILDING. IN THE EVENT OF A CONFLICT WITH THE MEP'S WITHIN THIS AREA, THE MEP'S REQUIREMENTS SHALL GOVERN.
- TESTING OF UTILITY TRENCH BACKFILL COMPACTION SHALL BE AT 75' INTERVALS AND EACH LIFT'S BACKFILL UNLESS OTHERWISE DEFINED IN THE GEOTECHNICAL REPORT FOR THIS PROJECT. BACKFILL SHALL BE PROCESSED SUCH THAT NO DIRT CLOSER IN IN EXCESS OF 4" DIAMETER. ALL SANITARY AND STORM SEWER LINES SHALL BE TESTED AT THE COMPLETION OF THE PROJECT (IN ADDITION TO MINIMUM CODE OR OTHER REQUIREMENTS) TO CHECK FOR DAMAGE CAUSED BY OTHER TRADES, UTILITY CONFLICTS, TRENCH SETTLEMENT, ETC. THE COST OF SUCH SHALL BE INCLUDED IN THE CONTRACTORS BASE PRICE.

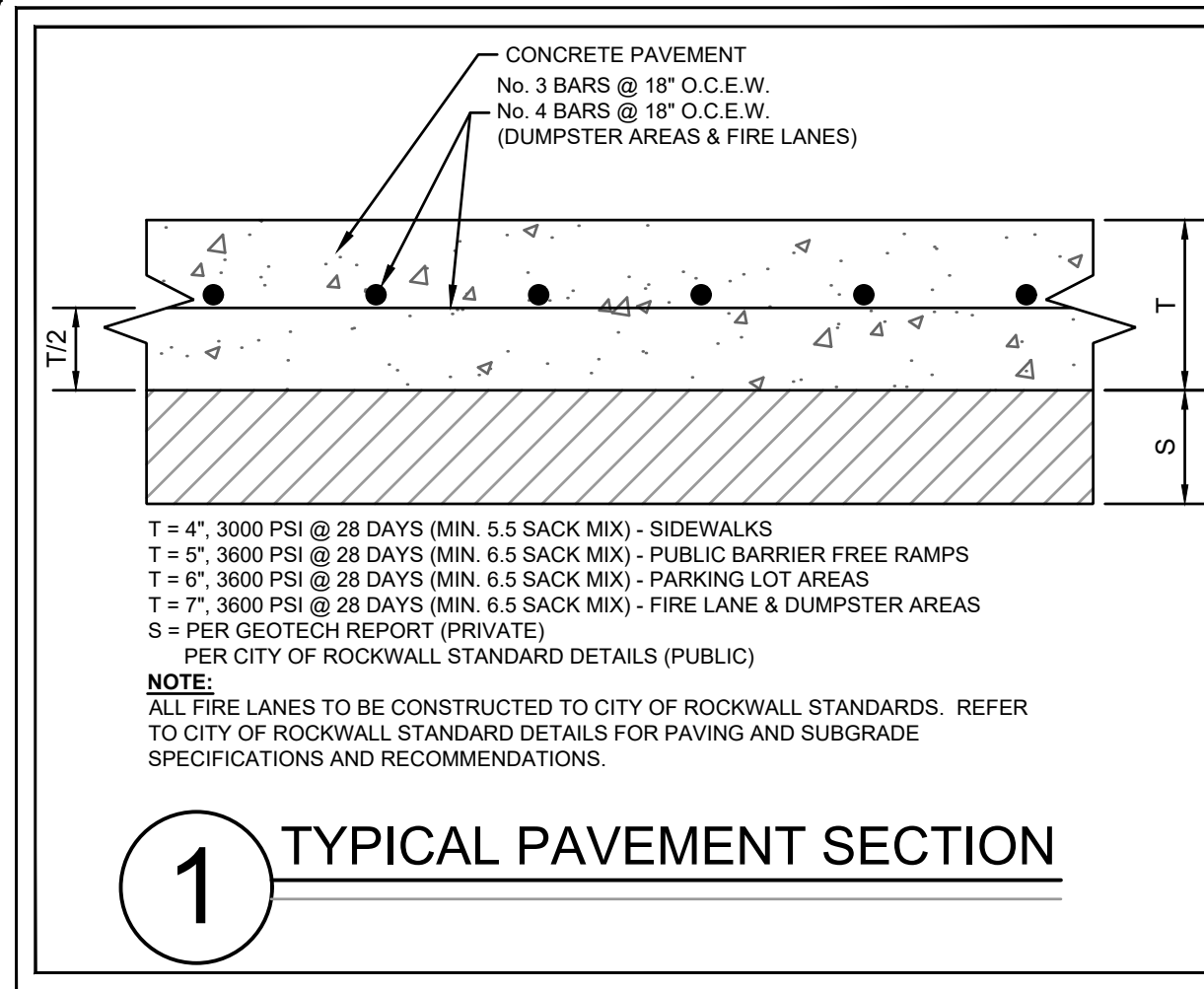
STANDARD ABBREVIATIONS:

APPROX	APPROXIMATELY	LT	LEFT
ASPH	ASPHALT	MCB	MULTIPLE BOX CULVERT
BC	BACK OF CURB	ME	MATCH EXISTING
B-B	BACK TO BACK OF CURB	MH	MANHOLE
BFR	BARRIER FREE RAMPS	NA	NOT APPLICABLE
BM	BENCHMARK	NG	NATURAL GROUND (EXISTING)
BW	BOTTOM OF WALL	PC	POINT OF CURVATURE
CATV	CABLE TV	PCC	POINT OF COMPOUND CURVATURE
CFS	CUBIC FEET PER SECOND	PI	POINT OF INTERSECTION
CIP	CURB INLET	PIV	POST INDICATOR VALVE
CMP	CORRUGATED METAL PIPE	PL	PROPERTY LINE
CO	CLEANOUT	PP	POWER POLE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CONN	CONNECTION	PROP	PROPOSED
CONST	CONSTRUCT	PT	POINT OF TANGENCY
CL	CENTER LINE	PVC	POLYVINYL CHLORIDE PIPE
DCO	DOUBLE CLEANOUT	PVMT	PAVEMENT
DE	DRAINAGE EASEMENT	OCEW	ON CENTER EACH WAY
DI	DROP INLET	OHE	OVERHEAD ELECTRIC
DIA	DIAMETER	R	RADIUS
DIP	DUCTILE IRON PIPE	RCB	REINFORCED CONCRETE BOX
DW	DOMESTIC WATER	RCI	RECESSED CURB INLET
EJ	EXPANSION JOINT	RCP	REINFORCED CONCRETE PIPE
ELEV	ELEVATION	RCPP	REINFORCED CONCRETE CYLINDRICAL PIPE
ELH	ELECTRIC MANHOLE	REINF	REINFORCED
EP	EDGE OF PAVEMENT	RL	RIDGE LINE
ESMT	EASEMENT	ROW	RIGHT OF WAY
EX	EXISTING	RT	RIGHT
FC	FACE OF CURB	SF	SQUARE FEET
F-F	FACE TO FACE OF CURB	SD	STORM DRAIN
FFE	FINISH FLOOR ELEVATION	SQ	SQUARE
FH	FIRE HYDRANT	SS	SANITARY SEWER
FM	FORCE MAIN	SSE	SANITARY SEWER EASEMENT
FO	FIBER OPTICS	STA	STATION
FG	FINISHED GRADE	SY	SQUARE YARD
FP	FINISHED PAD	T	TELEPHONE
FPS	FEET PER SECOND	TC	TOP OF CURB
FL	FLOW LINE	TG	TOP OF GROUND
G	GUTTER	TMH	TELEPHONE MANHOLE
GI	GRATE INLET	TP	TOP OF PAVEMENT
GM	GAS METER	TPPIPE	TOP OF PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE	TW	TOP OF WALL
HDWL	HEADWALL	TYP	TYPICAL
HMAC	HOT MIX ASPHALTIC CONCRETE	UE	UTILITY EASEMENT
HORIZ	HORIZONTAL	UGE	UNDERGROUND ELECTRIC
HP	HIGH POINT	VCP	VITRIFIED CLAY PIPE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	WTR	WATER
IRRIG	IRRIGATION	WE	WATER EASEMENT
JB	JUNCTION BOX	WL	WATER LINE
JT	JOINT	WM	WATER METER
LF	LINEAR FEET	WMH	WATER MANHOLE
LP	LOW POINT	WV	WATER VALVE
		WW	WASTE WATER

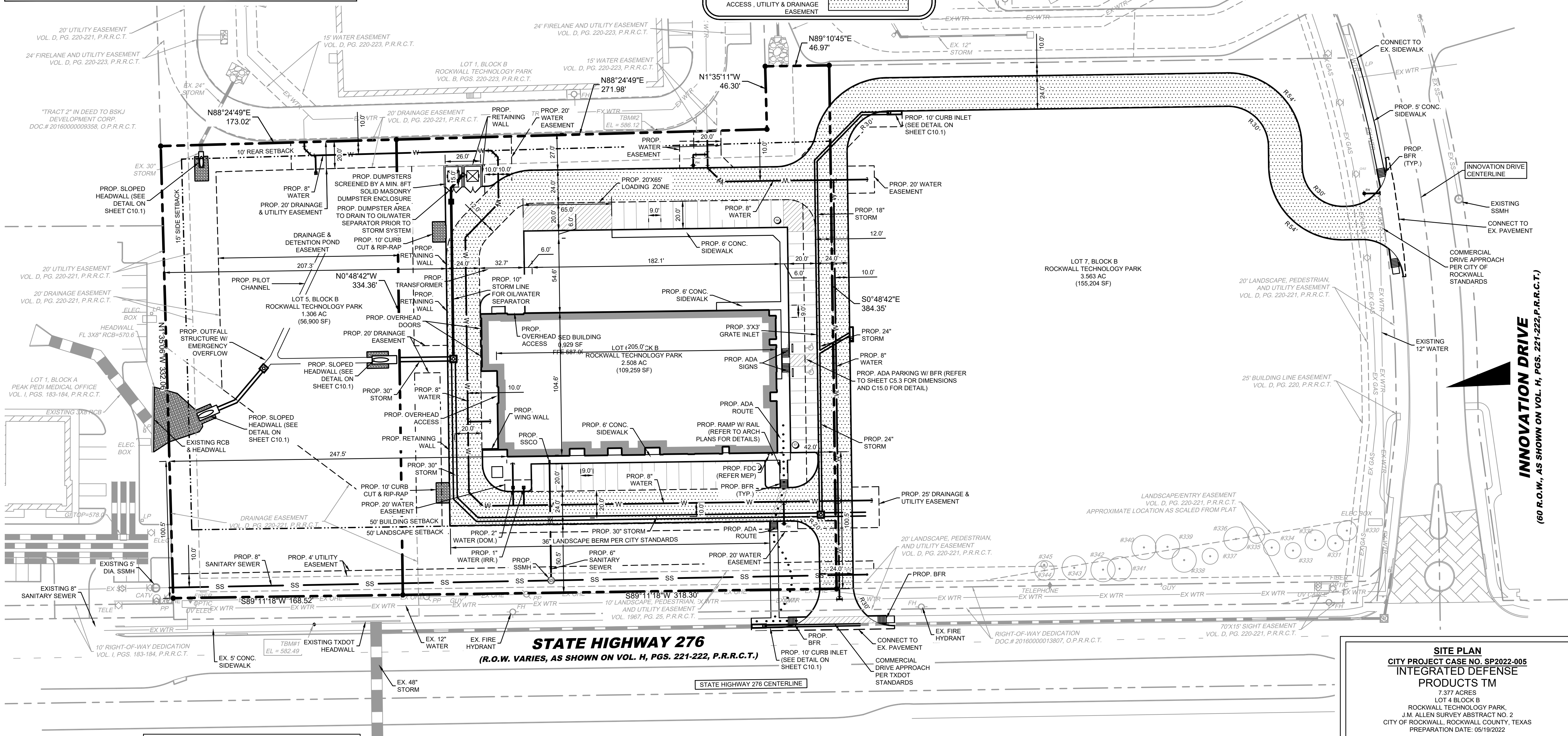
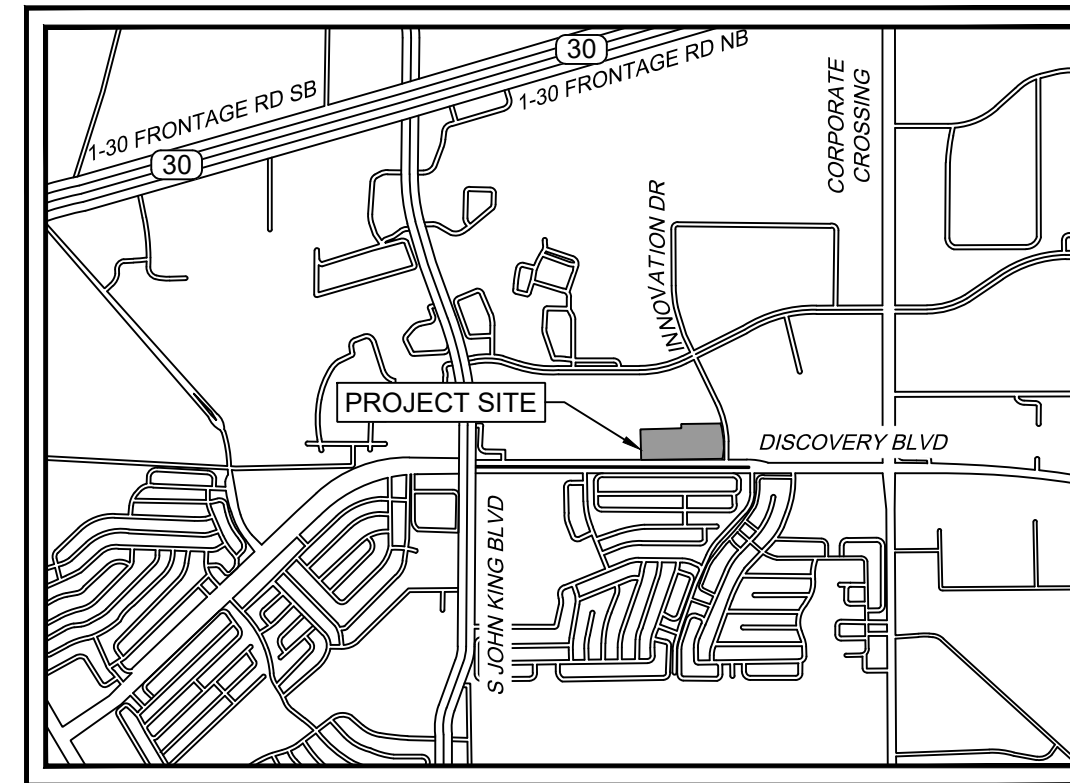
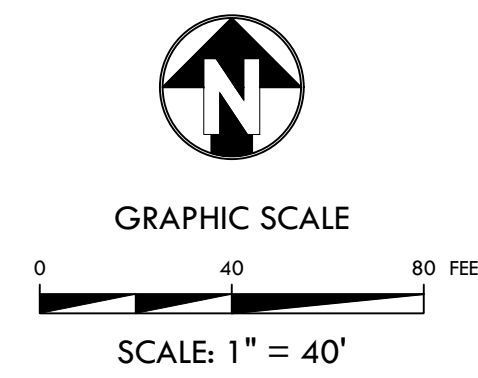
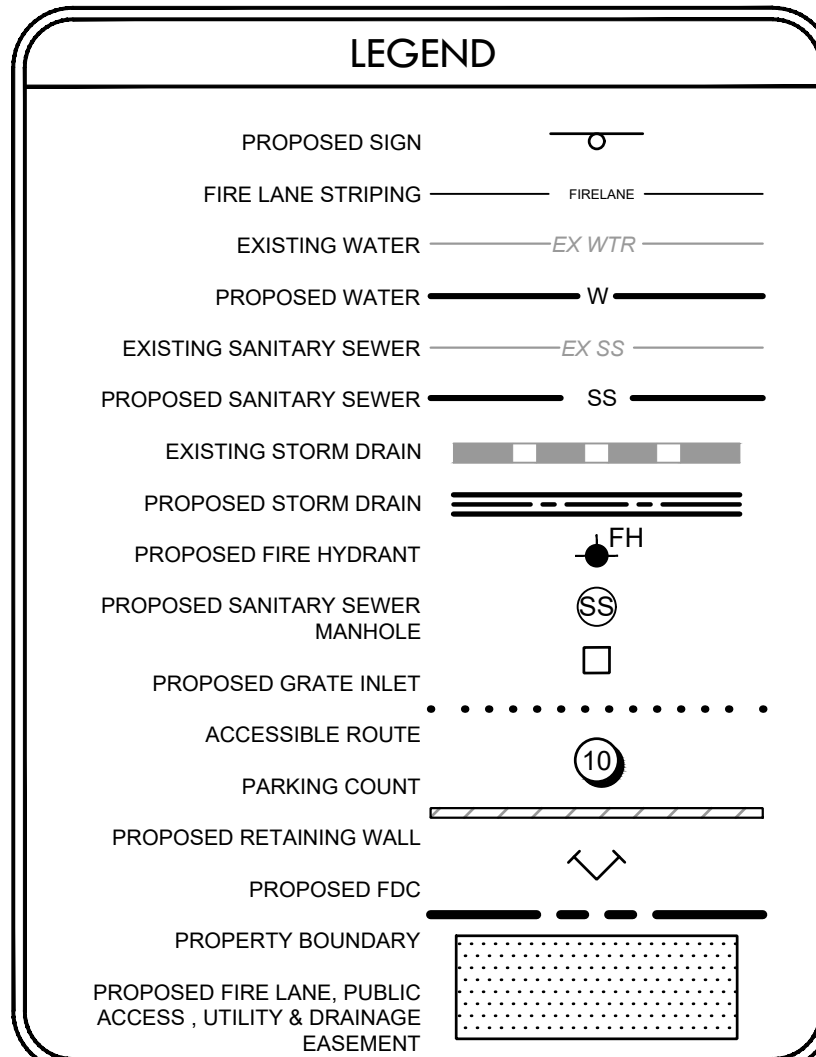


!!CAUTION!!
FRANCHISE UTILITIES MAY EXIST
IN THIS AREA. CONTRACTOR TO
FIELD VERIFY PRIOR TO
CONSTRUCTION.





SITE DATA SUMMARY TABLE	
GENERAL SITE DATA	LOT 4
ZONING	LI - LIGHT INDUSTRIAL
LAND USE	OFFICE/WAREHOUSE
LOT AREA	109,258 SF/2.50 AC
BUILDING FOOTPRINT AREA	20,930 SF
TOTAL BUILDING AREA	3,765 SF OFFICE
	17,165 SF WAREHOUSE
	TOTAL 20,930 SF
BUILDING HEIGHT (# STORIES)	1
BUILDING HEIGHT	29'-8"
LOT COVERAGE	12.59%
FLOOR AREA RATIO	0.13
PARKING	
PARKING RATIO	OFFICE: ONE SPACE PER 300 SF
	WAREHOUSE: ONE SPACE PER 1000 SF
REQUIRED PARKING (# SPACES)	31
PROVIDED PARKING (# SPACES)	50
ACCESSIBLE PARKING REQUIRED (# SPACES)	2
ACCESSIBLE PARKING PROVIDED (# SPACES)	2



STATE OF TEXAS
JEREMY B. NELSON
138740
LICENSED
PROFESSIONAL ENGINEER
Jeremy B. Nelson
05/19/2022



LiNKs
CONSTRUCTION
BUILDING & DEVELOPING THE FUTURE

525 S. LOOP 288,
SUITE 105
DENTON, TX 76205
(940) 566-5465

INTEGRATED DEFENSE
PRODUCTS TM

LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS

RECORD DRAWING

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE APPROVED SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDUM CHANGE ORDERS AND INFORMATION PROVIDED BY THE CONTRACTOR, TO THE BEST OF OUR KNOWLEDGE KIRKMAN ENGINEERING, LLC HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

BY: JEREMY B. NELSON, P.E. DATE: 10/02/2021

The logo for Kirkman Engineering features a large, stylized 'KE' monogram. The 'K' is light blue and the 'E' is grey. Below the monogram, the word 'kirkman' is written in a lowercase, sans-serif font, with 'k' in blue and 'kirkman' in grey. Underneath that, the word 'ENGINEERING' is written in a smaller, all-caps, sans-serif font in grey.

KIRKMAN ENGINEERING, LLC
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
TEXAS FIRM NO. 15874

JOB NUMBER:	LNK21005
ISSUE DATE:	05/19/2022

SITE PLAN


SHEET:


C3.0


CASE NUMBER: SP2022-005




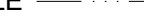
Know what's **below**.
Call before you dig


PROPOSED CONTOUR  500


EXISTING CONTOUR  500


GRADE BREAK 


PROPOSED SWALE 


PROPOSED FINISHED GRADE  FG 700.00


PROPOSED TOP OF CURB/GUTTER  TG 700.50
G 700.00


PROPOSED TOP OF WALL/
BOTTOM OF WALL  TW 700.00
BW 699.00

PROPOSED TOP OF INLET  TI 700.00

EXISTING SPOT GRADE  EX 700.54

EXISTING TOP OF CURB/GUTTER  TG 700.54
G 700.00

PROPOSED DRAINAGE FLOW ARROW 

EXISTING DRAINAGE FLOW ARROW 

1. GEOTECHNICAL REPORT: SITE PREPARATION, GRADING, FILL, COMPACTION, AND BUILDING PAD PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT BY **D&S ENGINEERING LABS, LLC**, DATED **JANUARY 2021**. IN THE EVENT OF A DISCREPANCY BETWEEN THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND THE NOTES ON THE GRADING PLAN, THE GEOTECHNICAL REPORT SHALL GOVERN.
2. TOPOGRAPHIC SURVEY: TOPOGRAPHIC SURVEY INFORMATION IS BASED ON THE TOPOGRAPHIC SURVEY PREPARED BY **BARTON CHAPPA SURVEYING**, DATED **JANUARY 2022**.
3. EXISTING CONDITIONS: PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS, INCLUDING GRADES AND DIMENSIONS. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES.
4. EROSION CONTROL: EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETION OF CLEARING, STRIPPING AND EARTHWORK OPERATIONS. THE CONTRACTOR SHALL REFER TO THE EROSION CONTROL PLAN FOR THE SEQUENCE OF EROSION CONTROL DEVICES TO BE INSTALLED.
5. PROPOSED GRADES: THE PROPOSED ELEVATIONS AND CONTOURS SHOWN ARE TO FINISHED GRADE. THE PROPOSED CONTOURS ARE APPROXIMATE. THE PROPOSED SPOT ELEVATIONS AND GRADIENTS ARE TO BE USED IN THE EVENT OF ANY DISCREPANCY WITH THE PROPOSED CONTOURS. MINOR ADJUSTMENT TO FINISH GRADE TO ACCUMPLESH SPOT DRAINAGE IS ACCEPTABLE.
6. ACCESSIBLE ROUTES/PARKING: SIDEWALKS AND CROSSWALKS ALONG ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH T&A AND ADA STANDARDS WITH A MAXIMUM RUNNING SLOPE OF 8% AND A MAXIMUM CROSS SLOPE OF 2%. ACCESSIBLE PARKING SPACES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS.
7. TESTING: TESTING SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY, EMPLOYED AND PAID DIRECTLY BY THE OWNER. TESTING SHALL BE PERFORMED AT A MINIMUM IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION REPORT. IN THE EVENT THE RESULTS OF THE INITIAL TESTING DO NOT COMPLY WITH THE PLANS AND SPECIFICATIONS, SUBSEQUENT TESTS NECESSARY TO DETERMINE THE ACCEPTABILITY OF CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.
8. MAXIMUM SITE SLOPES SHALL BE 4:1 UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL PROVIDE POSITIVE LIGHTING FOR ALL BUILDINGS.
10. CONTRACTOR TO ADJUST ALL UTILITY APPURTENANCES (EXISTING OR PROPOSED) TO FINAL GRADE.

DEPTH OF ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) PRIOR TO COMMENCING CONSTRUCTION. IF FIELD CONDITIONS DIFFER FROM LOCATIONS SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

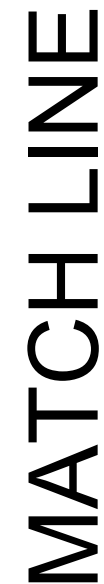


BM NO. 1 THE BENCHMARK IS AN "X" CUT SET WITH BOX ON THE NORTH SIDE OF A SIDEWALK ON THE NORTH SIDE OF SH-276, LOCATED APPROXIMATELY 25 FEET WEST OF A HEADWALL, AND APPROXIMATELY 100 FEET EAST OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT.

ELEVATION = 582.49' (NAVD '88)

BM NO. 2 THE BENCHMARK IS AN "X" CUT SET WITH BOX ON THE BACK OF CURB NORTH OF THE SUBJECT TRACT, LOCATED APPROXIMATELY 364 FEET EAST OF THE NORTH-WEST CORNER OF THE SUBJECT TRACT, AND APPROXIMATELY 80' WEST OF THE CORNER OF THE SUBJECT TRACT.

ELEVATION = 586.12' (NAVD '88)



SHEET C5.2

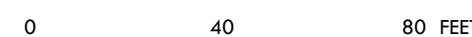
SHEET C5.1

STATE HIGHWAY 276

(R.O.W. VARIES, AS SHOWN ON VOL. H, PGS. 221-222, P.R.R.C.T.)

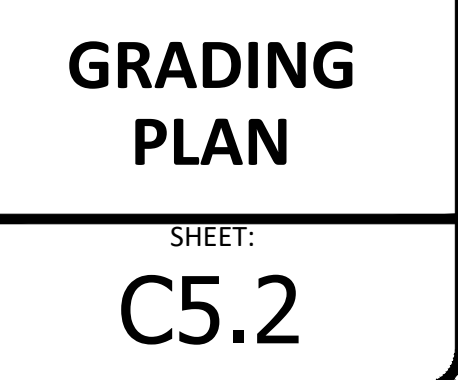
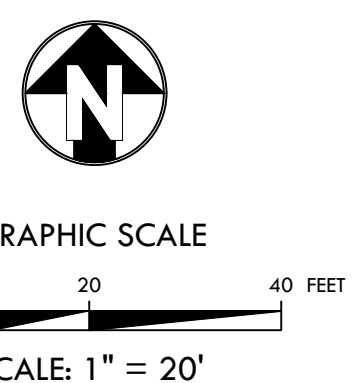
INNOVATION DRIVE

(60 R.O.W., AS SHOWN ON VOL. H, PGS. 221-222, P.R.R.C.T.)



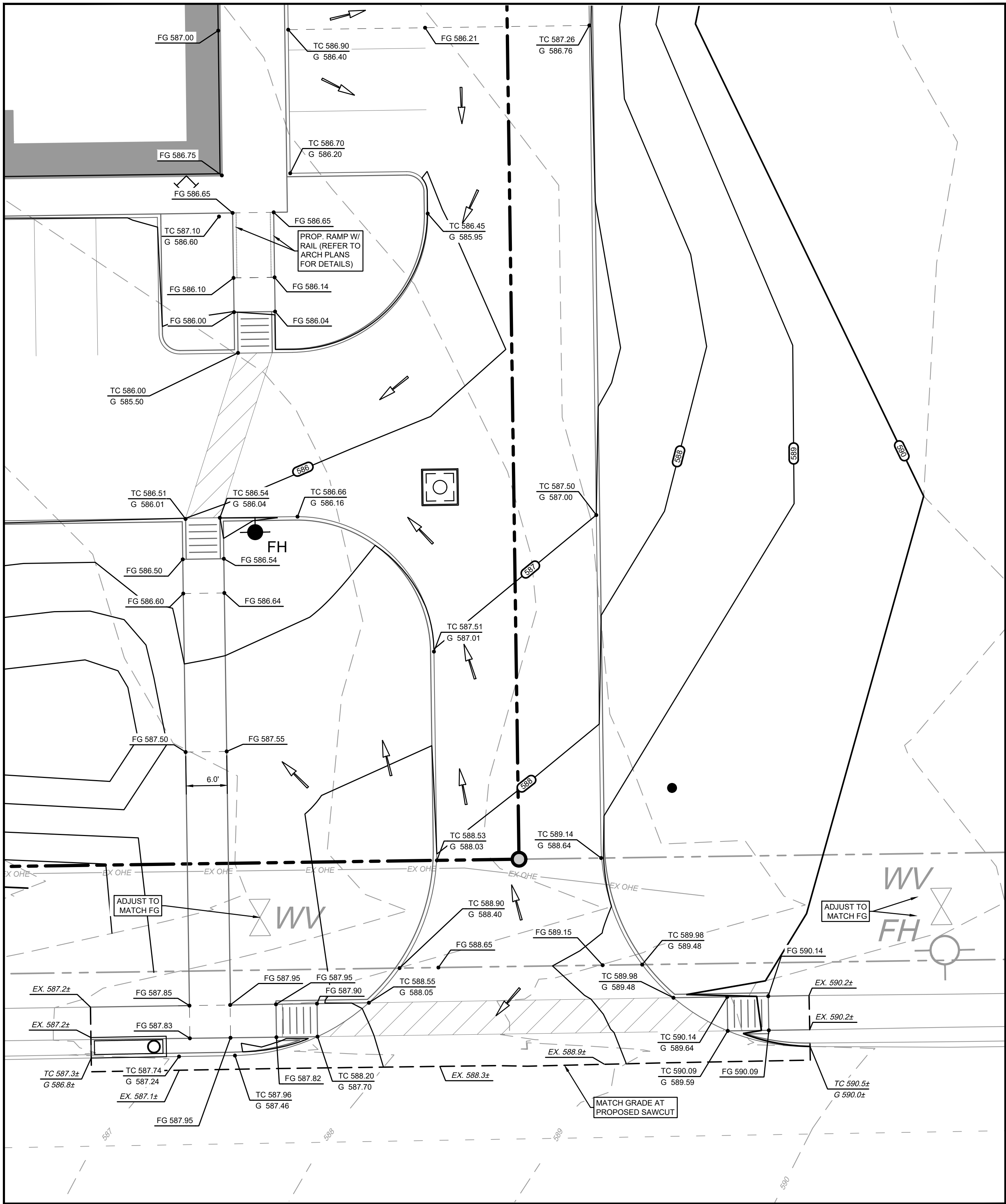
SCALE: 1" = 40'



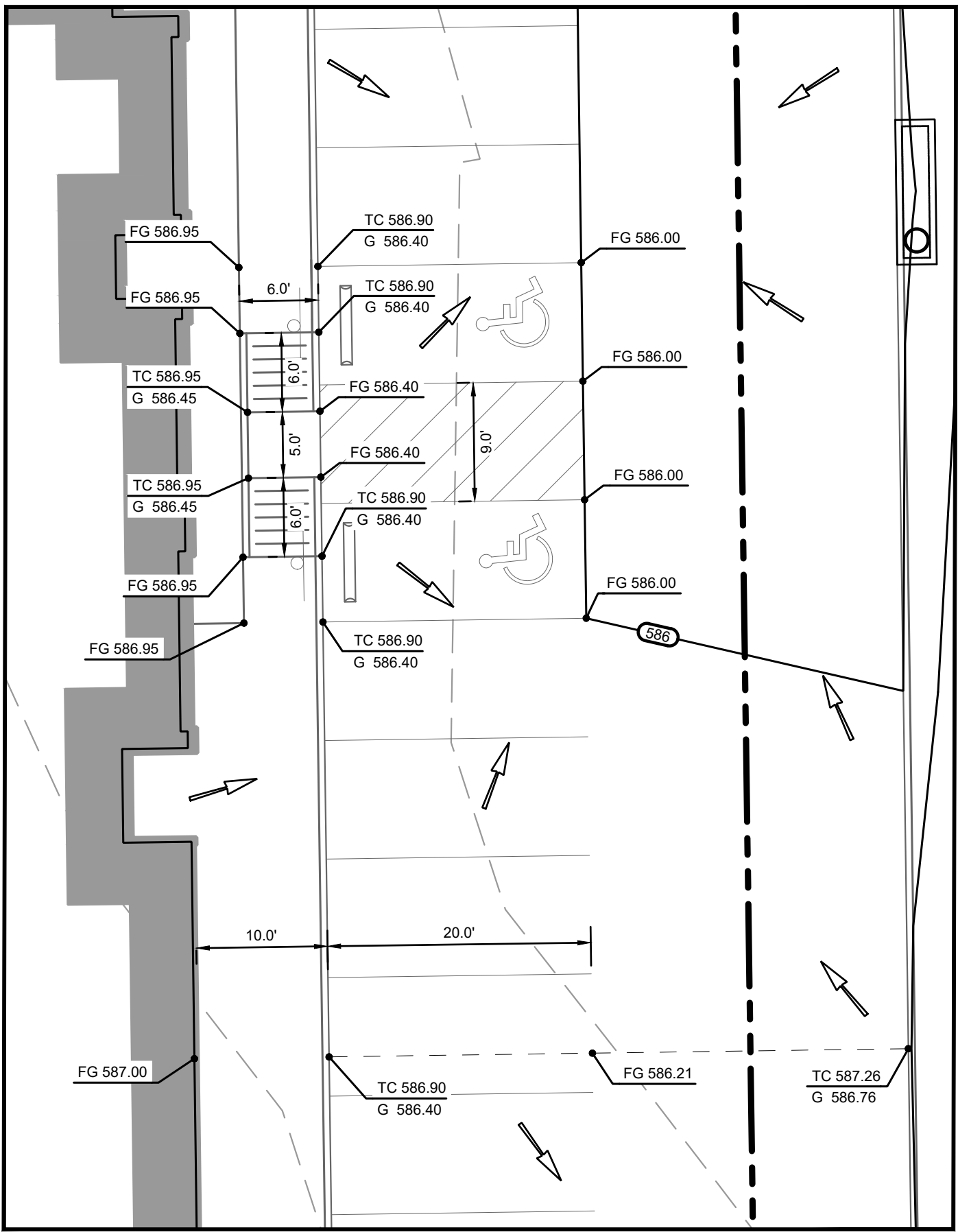


PLAN: C5.0 GRADING PLAN, LNK21005.dwg
PLOT DATE: 05/19/2022
PLOT BY: J. Nelson
PLOT DATE: 05/19/2022

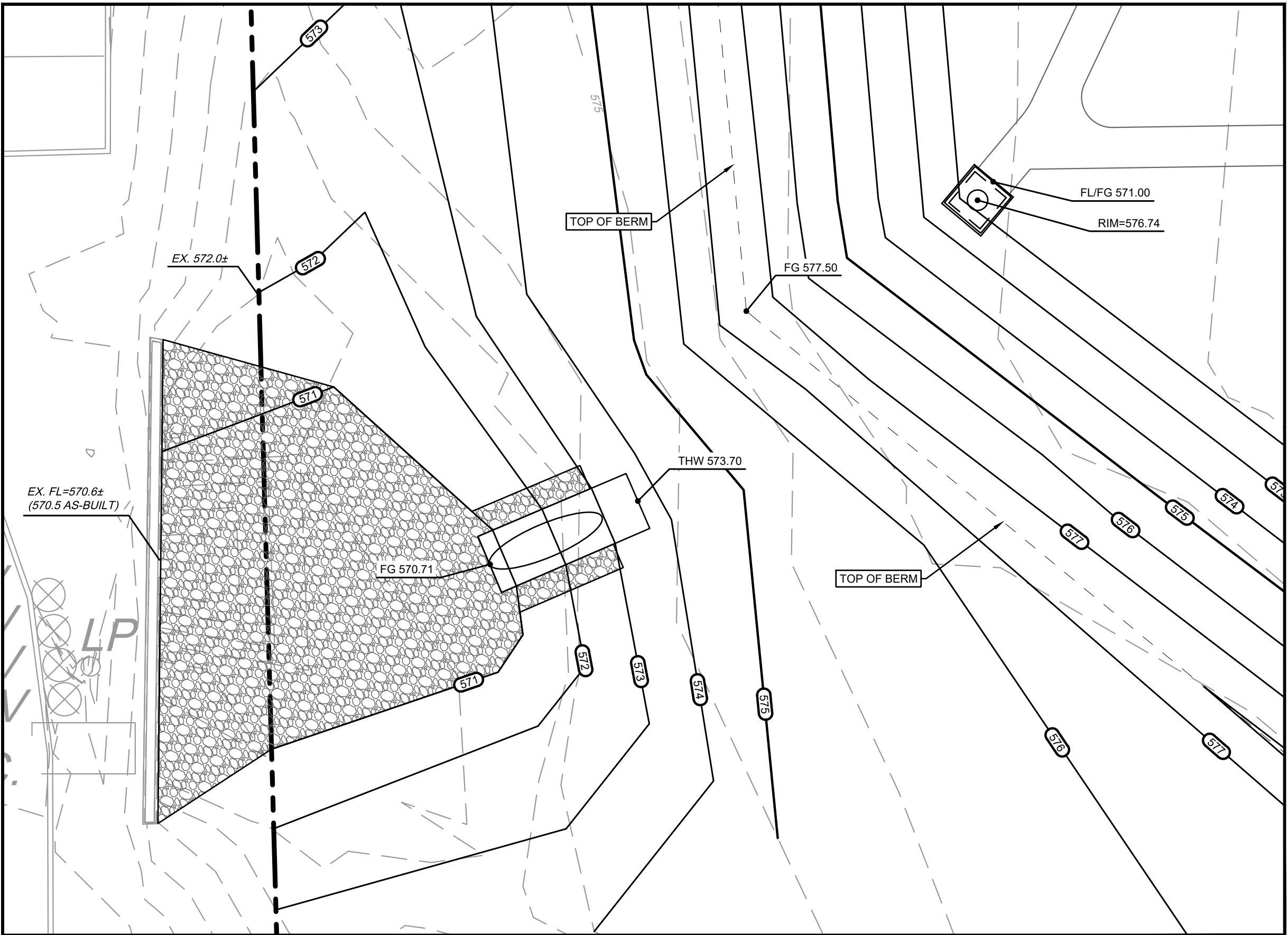
PLAN: C5.0 GRADING PLAN, LNK21005.dwg
PLOT DATE: 05/19/2022
PLOT BY: J. Nelson
PLOT DATE: 05/19/2022



DETAILED GRADING 1



ADA DETAILED GRADING

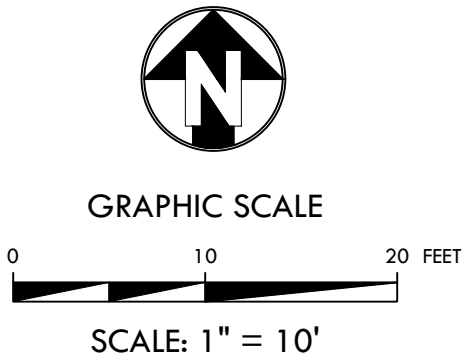


OUTFALL DETAILED GRADING

LEGEND

- PROPOSED CONTOUR 500
- EXISTING CONTOUR 500
- GRADE BREAK
- PROPOSED SWALE
- PROPOSED FINISHED GRADE FG 700.00
- PROPOSED TOP OF CURB/GUTTER TC 700.50 / G 700.00
- PROPOSED TOP OF WALL / BOTTOM OF WALL TW 700.00 / BW 699.00
- PROPOSED TOP OF INLET TI 700.00
- EXISTING SPOT GRADE EX 700.50
- EXISTING TOP OF CURB/GUTTER TC 700.50 / G 700.00
- PROPOSED DRAINAGE FLOW ARROW
- EXISTING DRAINAGE FLOW ARROW
- PROPERTY BOUNDARY

NOTE TO CONTRACTOR
THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) PRIOR TO COMMENCING CONSTRUCTION. IF FIELD CONDITIONS DIFFER FROM LOCATIONS SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.



STATE OF TEXAS
JEREMY B. NELSON
138740
REGISTERED PROFESSIONAL ENGINEER
Jeremy B. Nelson
05/19/2022

LINKS
CONSTRUCTION
BUILDING & DEVELOPING THE FUTURE
525 S. LOOP 288,
SUITE 105
DENTON, TX 76205
(940) 566-5465

INTEGRATED DEFENSE PRODUCTS TM
LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
(2.508 ACRES) J.M. ALLEN SURVEY A-2

RECORD DRAWING
THIS RECORD DRAWING IS A COMPILED COPY OF THE APPROVED SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDUM CHANGE ORDERS AND INFORMATION PROVIDED BY THE CONTRACTOR TO AND INFORMATION PROVIDED BY THE CONTRACTOR TO THE ENGINEER. THE ENGINEER'S RESPONSIBILITY IS TO VERIFY THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.
BY: JEREMY B. NELSON, P.E. DATE: 10/02/2023

Kirkman
ENGINEERING
KIRKMAN ENGINEERING, LLC
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
TEXAS FIRM NO. 15874

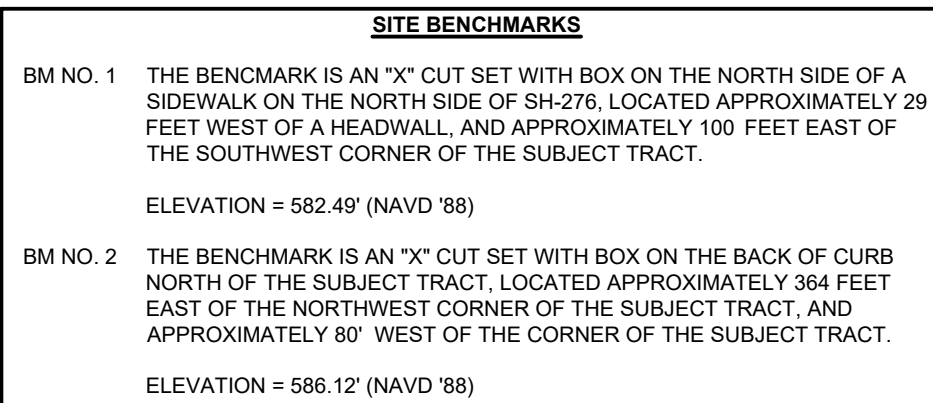
JOB NUMBER: LNK21005
ISSUE DATE: 05/19/2022

DETAILED GRADING PLAN

SHEET:
C5.3



Know what's below.
Call before you dig.



LEGEND

BASIN NAME	DA1
ACRES	0.63 ac.
Q100 (cfs)	5.57

EXISTING DRAINAGE AREA LABEL

EXISTING DRAINAGE AREA DIVIDE

EXISTING DRAINAGE FLOW ARROW

EXISTING CONTOUR

EXISTING STORM PIPE

PROPERTY BOUNDARY

Q₁₀₀=5.01 cfs (DETAILED FLOW
PER RECORD DRAWINGS FOR
HATFIELD & Co. BY PACHECO
KOCH DATED AUGUST 2012)

Q₁₀₀=20.68 cfs (DETAILED PER
RECORD DRAWINGS FOR FALCON
FINE WINES BY PACHECO KOCH
DATED JULY 2000)

"TRACT 2" IN DEED TO BSKJ
DEVELOPMENT CORP.
DOC.# 20160000009358, O.P.R.P.C.T.

20' DRAINAGE EASEMENT
VOL. D, PG. 220-221, P.R.R.C.T.

TBM#2

20' DRAINAGE EASEMENT
VOL. D, PG. 220-221, P.R.R.C.T.

LOT 1, BLOCK A
PEAK PEDI MEDICAL OFFICE
DL. 1, PGS. 183-184, P.R.R.C.T.

EXISTING
HEADWALL &
3'X8' RCB

EX2
0.47 ac.
1.37

DRAINAGE EASEMENT
VOL. D, PG. 220-221, P.R.R.C.T.

EXISTING TXDOT

10' RIGHT-OF-WAY DEDICATION
VOL. I, PGS. 183-184, P.R.R.C.T.

STATE HIGHWAY 276
(R.O.W. VARIES, AS SHOWN ON VOL. H, PGS. 221-222, P.R.R.C.T.)

EXISTING DRAINAGE AREA CALCULATIONS Q=CIA								
DRAINAGE AREA ID	Tc (min.)	RUNOFF COEFFICIENT "C"	AREA (acres)	I5 (in./hr.)	Q5 (cfs)	I100 (in./hr.)	Q100 (cfs)	COMMENTS
EX1	20	0.35	6.91	4.90	11.84	8.30	20.06	DRAINS WEST TO EX. HEADWALL
EX2	20	0.35	0.47	4.90	0.81	8.30	1.37	DRAINS WEST TO EX. HEADWALL

NOTE: DRAINAGE CRITERIA TAKEN FROM CITY OF ROCKWALL ENGINEERING DESIGN MANUAL DATED OCTOBER 2019.

NOTE TO CONTRACTOR

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GRAPHIC SCALE

0 40 80 FEET

SCALE: 1" = 40'



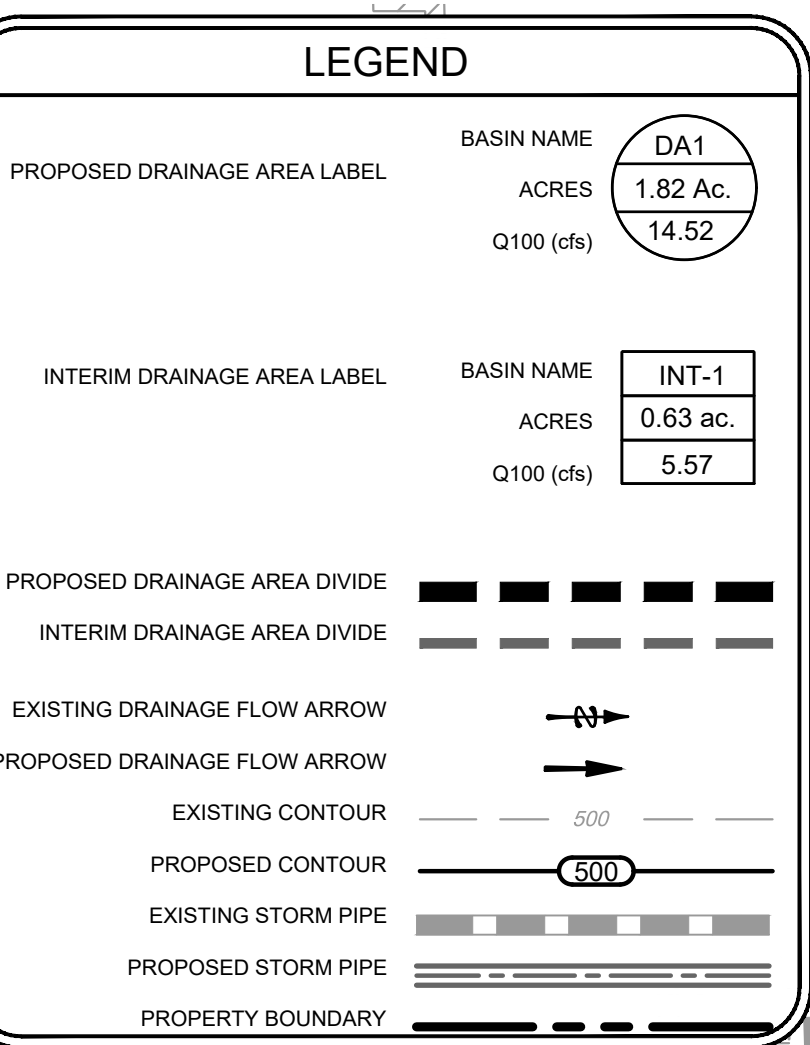
Know what's **below**.
Call before you dig

PLN: 14714_K:\03\03\1005_rockwall\Industrial\Drawings\03_DRAIN\03_Production\GL1_PROPOSED DRAINAGE AREA MAP_LNK1005.dwg
PLOT DATE: 05/19/2022
PLOT BY: J. Nelson
PLOT DATE: 05/19/2022

PROPOSED DRAINAGE AREA CALCULATIONS Q=CIA								
DRAINAGE AREA ID	Tc (min.)	RUNOFF COEFFICIENT "C"	AREA (acres)	I5 (in./hr.)	Q5 (cfs)	I100 (in./hr.)	Q100 (cfs)	COMMENTS
DA1	20	0.35	0.47	4.90	0.81	8.30	1.37	DRAINS TO EX. HEADWALL (UNDETAILED)
DA2	10	0.90	0.49	6.10	2.69	9.80	4.32	DRAINS TO EX. HEADWALL (BYPASS)
DA3	10	0.90	0.13	6.10	0.70	9.80	1.12	DRAINS TO EX. HEADWALL (BYPASS)
DA4	10	0.90	0.16	6.10	0.88	9.80	1.42	DRAINS TO SH-276 (BYPASS)
DA5	10	0.90	0.82	6.10	4.48	9.80	7.20	PROPOSED DETENTION POND
DA6	10	0.90	0.70	6.10	3.85	9.80	6.19	DRAINS TO PROP. CURB CUT
DA7	10	0.90	0.09	6.10	0.47	9.80	0.76	ROOF DRAINAGE TO PROP. CURB CUT
DA8	10	0.90	0.13	6.10	0.71	9.80	1.14	ROOF DRAINAGE TO PROP. CURB CUT
DA9	10	0.90	0.27	6.10	1.49	9.80	2.39	ROOF DRAINAGE TO PROP. CURB INLET
DA10	10	0.90	0.76	6.10	4.17	9.80	6.71	DRAINS TO PROP. CURB CUT
DA11	10	0.90	0.27	6.10	1.49	9.80	2.39	DRAINS TO PROP. CURB INLET
DA12	10	0.90	0.50	6.10	2.77	9.80	4.45	DRAINS TO PROP. CURB INLET
DA13	10	0.90	2.56	6.10	14.04	9.80	22.56	FUTURE DEVELOPMENT DRAINAGE TO PROP. STORM STUBOUT

INTERIM DRAINAGE AREA CALCULATIONS Q=CIA						
DRAINAGE AREA ID	Tc (min.)	RUNOFF COEFFICIENT "C"	AREA (acres)	I100 (in./hr.)	Q100 (cfs)	COMMENTS
INT-1	20	0.35	0.19	8.30	0.55	DRAINS TO PROP. CURB CUT
INT-2	20	0.35	1.48	8.30	4.30	DRAINS TO PROP. CURB INLET
INT-3	20	0.35	0.88	8.30	2.56	DRAINS TO PROP. CURB CUT

Q₁₀₀=20.68 cfs (DETAILED PER RECORD DRAWINGS FOR FALCON FINE WINES BY PACHECO KOCH DATED JULY 2000)



DRAINAGE AREA NOTES:

- DRAINAGE CRITERIA TAKEN FROM CITY OF ROCKWALL ENGINEERING DESIGN MANUAL DATED OCTOBER 2019.
- DRAINAGE CRITERIA FOR INTERIM DRAINAGE AREAS: C = 0.35 & I100 = 8.30 in./hr.
- PROPOSED STORM SYSTEM DESIGNED FOR THE ULTIMATE CONDITION. INTERIM DRAINAGE AREAS HAVE BEEN PROVIDED WITHIN LOT 6, BLOCK B TO ANALYZE THE ADDITIONAL DISCHARGE DRAINING TO THE GRATE INLET IN DA14 AND THE CURB CUTS FOR THE INTERIM SITE CONDITIONS.
- DRAINAGE AREA DA1 HAS NOT BEEN ACCOUNTED FOR THE IN THE DETENTION CALCULATIONS AND IS UNDETAILED. ANY FUTURE DEVELOPMENT WITHIN DA1, OR INCREASE IN IMPERVIOUS AREA IN THE FUTURE WILL REQUIRE DETENTION.

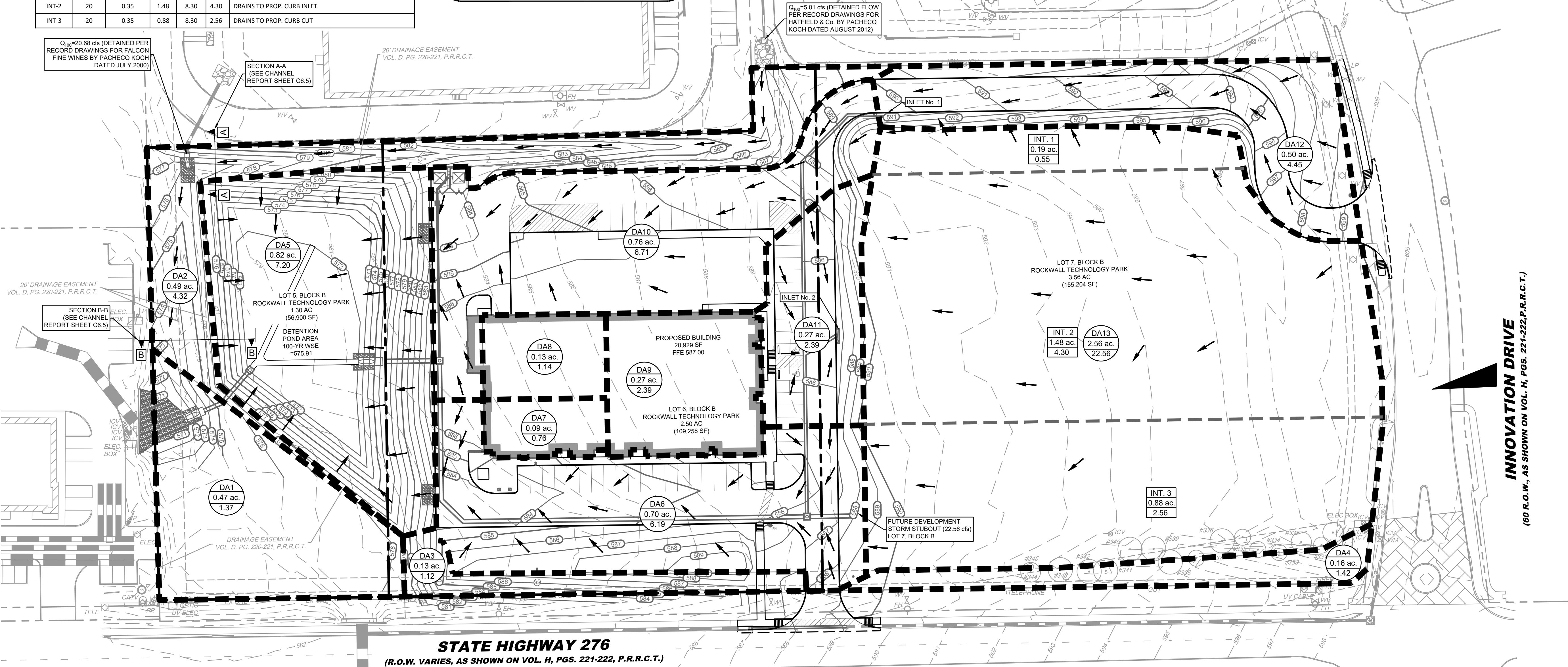
SITE BENCHMARKS

BM NO. 1 THE BENCHMARK IS AN "X" CUT SET WITH BOX ON THE NORTH SIDE OF A SIDEWALK ON THE NORTH SIDE OF SH-276, LOCATED APPROXIMATELY 29 FEET WEST OF A HEADWALL, AND APPROXIMATELY 100 FEET EAST OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT.

ELEVATION = 582.49' (NAVD '88)

BM NO. 2 THE BENCHMARK IS AN "X" CUT SET WITH BOX ON THE BACK OF CURB NORTH OF THE SUBJECT TRACT, LOCATED APPROXIMATELY 364 FEET EAST OF THE NORTHWEST CORNER OF THE SUBJECT TRACT, AND APPROXIMATELY 80' WEST OF THE CORNER OF THE SUBJECT TRACT.

ELEVATION = 586.12' (NAVD '88)



JEREMY B. NELSON
138740
05/19/2022

LINKS CONSTRUCTION
BUILDING & DEVELOPING THE FUTURE

525 S. LOOP 288,
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INTEGRATED DEFENSE PRODUCTS TM

LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
(2.508 ACRES) J.M. ALLEN SURVEY A-2

RECORD DRAWING

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BY: JEREMY B. NELSON, P.E. DATE: 05/19/2022

kirkman ENGINEERING

KIRKMAN ENGINEERING, LLC
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
TEXAS FIRM NO. 15874

JOB NUMBER: LNK21005
ISSUE DATE: 05/19/2022

PROPOSED DRAINAGE AREA MAP

SHEET:
C6.1

PLANS: C:\PROJECTS\DRAINAGE AREA MAP_LNK21005.dwg PLOTTER: K:\bin\k1005.ctb PLOT DATE: 10/2/2022

DETENTION POND CALCULATIONS - 100 YEAR STORM					
EXISTING CONDITIONS:			PROPOSED CONDITIONS:		
RUNOFF COEFFICIENT "C":	0.35		RUNOFF COEFFICIENT "C":	0.90	
Frequency Factor "Cf"	1.00		Frequency Factor "Cf"	1.00	
TC (min.):	20		TC (min.):	10	
RAINFALL INTENSITY (in./hr.):	8.30		RAINFALL INTENSITY (in./hr.):	9.80	
ON-SITE DRAINAGEAREA (acres):	6.91		ON-SITE DRAINAGEAREA (acres):	6.91	
OFF-SITE DRAINAGE AREA (acres):	0		OFF-SITE DRAINAGE AREA (acres)		
EXISTING RUNOFF (cfs)	20.07		BYPASS (acres):	0.78	
ALLOWABLE RUNOFF (cfs):	13.19		PROPOSED RUNOFF (cfs):	60.95	
STORM (min.)	INTENSITY (in./hr.)	Q (cfs)	INFLOW (cf)	OUTFLOW (cf)	STORAGE (cf)
5	10.87	59.95	17,985.25	5,937.28	12,047.98
10	9.80	54.07	32,439.96	7,916.37	24,523.59
15	9.00	49.65	44,687.70	9,895.46	34,792.24
20	8.30	45.79	54,949.32	11,874.56	43,074.77
30	6.90	38.07	68,521.14	15,832.74	52,688.40
40	5.80	32.00	76,796.64	19,790.93	57,005.72
50	5.00	27.59	82,755.00	23,749.11	59,005.89
60	4.50	24.83	89,375.40	27,707.30	61,668.11
70	4.00	22.07	92,685.60	31,665.48	61,020.12
80	3.70	20.41	97,981.92	35,623.67	62,358.26
90	3.50	19.31	104,271.30	39,581.85	64,689.45
100	3.40	18.76	112,546.80	43,540.04	69,006.77
110	3.20	17.65	116,519.04	47,498.22	69,020.82
120	2.17	11.95	86,027.85	51,456.41	34,571.44
130	2.05	11.29	88,044.93	55,414.59	32,630.34
140	1.94	10.71	89,924.98	59,372.78	30,552.21
150	1.85	10.19	91,686.83	63,330.96	28,355.87
160	1.76	9.72	93,345.63	67,289.15	26,056.48
170	1.69	9.31	94,913.78	71,247.33	23,666.45
180	1.62	8.93	96,401.53	75,205.52	21,196.01

DETENTION POND CALCULATIONS - 10 YEAR STORM					
EXISTING CONDITIONS:			PROPOSED CONDITIONS:		
RUNOFF COEFFICIENT "C":	0.35		RUNOFF COEFFICIENT "C":	0.90	
Frequency Factor "Cf"	1.00		Frequency Factor "Cf"	1.00	
TC (min.):	20		TC (min.):	10	
RAINFALL INTENSITY (in./hr.):	5.90		RAINFALL INTENSITY (in./hr.):	7.10	
ON-SITE DRAINAGEAREA (acres):	6.91		ON-SITE DRAINAGEAREA (acres):	6.91	
OFF-SITE DRAINAGE AREA (acres):	0		OFF-SITE DRAINAGE AREA (acres)		
EXISTING RUNOFF (cfs)	14.27		BYPASS (acres):	0.78	
ALLOWABLE RUNOFF (cfs):	9.28		PROPOSED RUNOFF (cfs):	44.15	
STORM (min.)	INTENSITY (in./hr.)	Q (cfs)	INFLOW (cf)	OUTFLOW (cf)	STORAGE (cf)
5	7.55	41.65	12,494.57	4,178.23	8,316.34
10	7.10	39.17	23,502.42	5,570.97	17,931.45
15	6.50	35.86	32,274.45	6,963.71	25,310.74
20	5.90	32.55	39,060.36	8,356.46	30,703.91
30	4.80	26.48	47,666.88	11,141.94	36,524.94
40	4.00	22.07	52,963.20	13,927.43	39,035.78
50	3.50	19.31	57,928.50	16,712.91	41,215.59
60	3.00	16.55	59,583.60	19,498.40	40,085.21
70	2.80	15.45	64,879.92	22,283.88	42,596.04
80	2.60	14.34	68,852.16	25,069.37	43,782.80
90	2.50	13.79	74,479.50	27,854.85	46,624.65
100	2.40	13.24	79,444.80	30,640.34	48,804.47
110	2.30	12.69	83,748.06	33,425.82	50,322.24
120	1.48	8.16	58,787.68	36,211.31	22,576.38
130	1.40	7.71	60,170.49	38,996.79	21,173.70
140	1.33	7.32	61,460.55	41,782.28	19,678.28
150	1.26	6.96	62,670.53	44,567.76	18,102.77
160	1.20	6.65	63,810.65	47,353.25	16,457.40
170	1.15	6.36	64,889.24	50,138.73	14,750.51
180	1.11	6.10	65,913.25	52,924.22	12,989.03

STORM EVENT (YEAR)	REQUIRED STORAGE (cf)	WSE ELEVATION (ft)	MAXIMUM ALLOWABLE DISCHARGE (cfs)	PROPOSED DETENTION DISCHARGE (cfs)
5-YR	40,472.86	574.43	7.57	7.57
10-YR	50,322.24	574.98	9.28	8.86
25-YR	55,989.72	575.26	10.14	9.96
100-YR	69,020.82	575.91	13.19	13.19

DETENTION CALCULATION NOTES

- DETENTION CALCULATIONS BASED ON MODIFIED RATIONAL METHODOLOGY TAKEN FROM THE CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION DATED OCTOBER 2019.
- RAINFALL INTENSITY VALUES FOR 10-110 MINUTE STORM EVENTS TAKEN FROM CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION DATED OCTOBER 2019.
- RAINFALL INTENSITIES FOR ALL OTHER STORMS EVENTS CALCULATED USING e,b,d VALUES FROM TXDOT RAINFALL INTENSITY-DURATION-FREQUENCY COEFFICIENTS FOR TEXAS.
- DETENTION POND STAGE-STORAGE CALCULATIONS PROVIDED USING AVERAGE END AREA METHOD AND VERIFIED BY COMPUTER AIDED DRAFTING.

DETENTION POND CALCULATIONS - 50 YEAR STORM					
EXISTING CONDITIONS:			PROPOSED CONDITIONS:		
RUNOFF COEFFICIENT "C":	0.35		RUNOFF COEFFICIENT "C":	0.90	
Frequency Factor "Cf"	1.00		Frequency Factor "Cf"	1.00	
TC (min.):	20		TC (min.):	10	
RAINFALL INTENSITY (in./hr.):	7.50		RAINFALL INTENSITY (in./hr.):	9.00	
ON-SITE DRAINAGEAREA (acres):	6.91		ON-SITE DRAINAGEAREA (acres):	6.91	
OFF-SITE DRAINAGE AREA (acres):	0		OFF-SITE DRAINAGE AREA (acres)		
EXISTING RUNOFF (cfs)	18.14		BYPASS (acres):	0.78	
ALLOWABLE RUNOFF (cfs):	11.82		PROPOSED RUNOFF (cfs):	55.97	
STORM (min.)	INTENSITY (in./hr.)	Q (cfs)	INFLOW (cf)	OUTFLOW (cf)	STORAGE (cf)
5	10.15	56.02	16,805.40	5,319.34	11,486.06
10	9.00	49.65	29,791.80	7,092.45	22,699.35
15	8.10	44.69	40,218.93	8,865.56	31,353.37
20	7.50	41.38	49,653.00	10,638.68	39,014.33
30	6.10	33.65	60,576.66	14,184.90	46,391.76
40	5.20	28.69	68,852.16	17,731.13	51,121.04
50	4.50	24.83	74,479.50	21,277.35	53,202.15
60	3.90	21.52	77,458.68	24,823.58	52,635.11
70	3.70	20.41	85,734.18	28,369.80	57,364.38
80	3.50	19.31	92,685.60	31,916.03	60,769.58
90	3.30	18.21	98,312.94	35,462.25	62,850.69
100	3.00	16.55	99,306.00	39,008.48	60,297.53
110	2.90	16.00	105,595.38	42,554.70	63,040.68
120	2.13	11.78	84,798.83	46,100.93	38,697.90
130	2.02	11.14	86,902.89	49,647.15	37,255.74
140	1.92	10.58	88,867.60	53,193.38	35,674.22
150	1.83	10.08	90,711.86	56,739.60	33,972.26
160	1.75	9.63	92,450.92	60,285.83	32,165.09
170	1.67	9.23	94,097.26	63,832.05	30,265.21
180	1.61	8.86	95,661.26	67,378.28	28,282.98

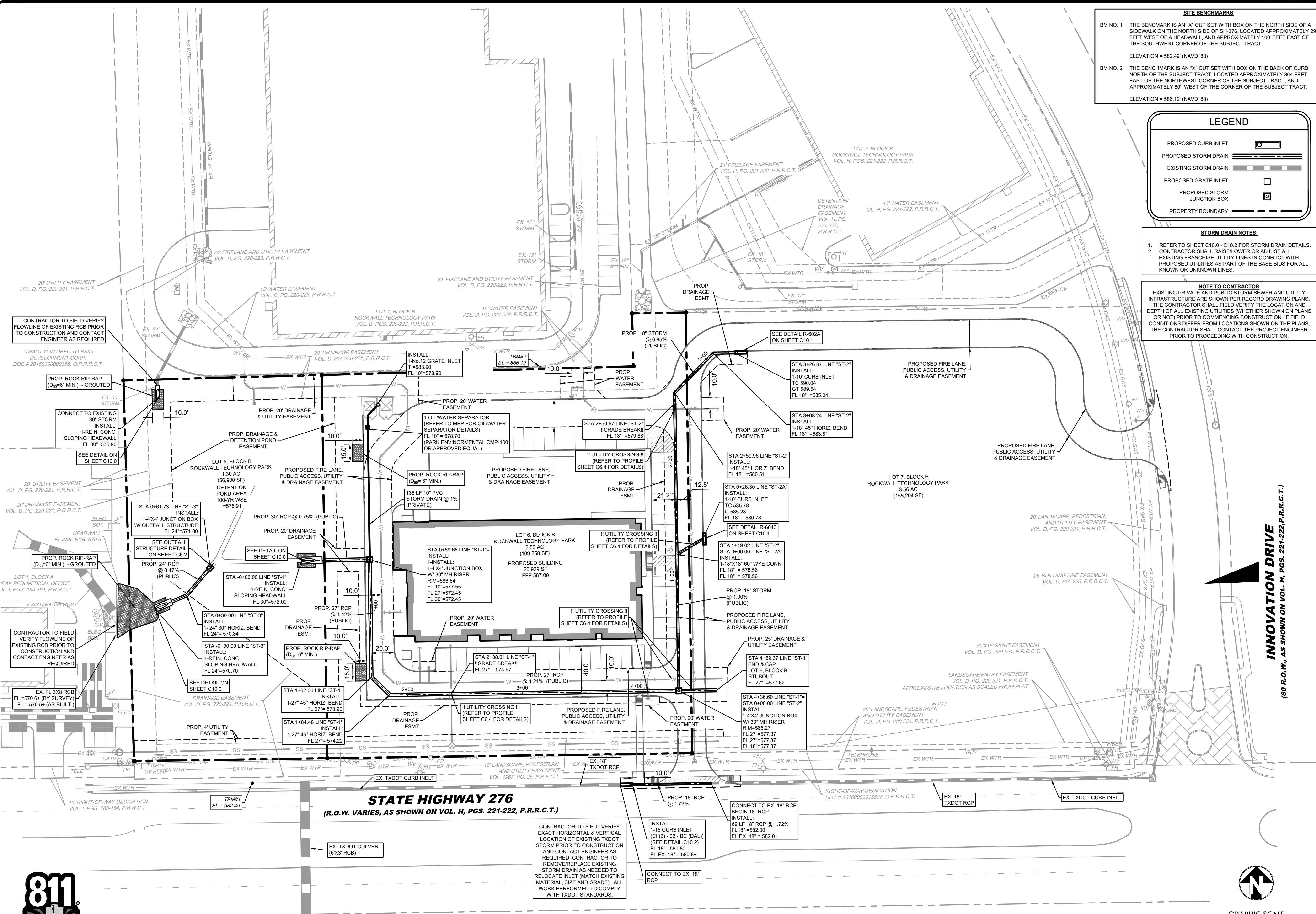
DETENTION POND CALCULATIONS - 5 YEAR STORM					
EXISTING CONDITIONS:			PROPOSED CONDITIONS:		
RUNOFF COEFFICIENT "C":	0.35		RUNOFF COEFFICIENT "C":	0.90	
Frequency Factor "Cf"	1.00		Frequency Factor "Cf"	1.00	
TC (min.):	20		TC (min.):	1	
RAINFALL INTENSITY (in./hr.):	4.90		RAINFALL INTENSITY (in./hr.):	6.10	
ON-SITE DRAINAGEAREA (acres):	6.91		ON-SITE DRAINAGEAREA (acres):	6.91	
OFF-SITE DRAINAGE AREA (acres):	0		OFF-SITE DRAINAGE AREA (acres)		
EXISTING RUNOFF (cfs)	11.85		BYPASS (acres):	0.70	
ALLOWABLE RUNOFF (cfs):	7.57		PROPOSED RUNOFF (cfs):	37.90	
STORM (min.)	INTENSITY (in./hr.)	Q (cfs)	INFLOW (cf)	OUTFLOW (cf)	STORAGE (cf)
5	7.06	38.97	11,692.47	3,405.80	8,286.67
10	6.10	33.65	20,192.22	4,541.07	15,651.15
15	5.50	30.34	27,309.15	5,676.34	21,632.81
20	4.90	27.03	32,439.96	6,811.61	25,628.36
30	4.10	22.62	40,715.46	9,082.14	31,633.32
40	3.40	18.76	45,018.72	11,352.68	33,666.05
50	2.80	15.45	46,342.80	13,623.21	32,719.59
60	2.60	14.34	51,639.12	15,893.75	35,745.38
70	2.40	13.24	55,611.36	18,164.28	37,447.06
80	2.30	12.69	60,907.68	20,434.82	40,472.86
90	2.10	11.59	62,562.78	22,705.35	39,857.43
100	1.90	10.48	62,893.80	24,975.89	37,917.92
110	1.80	9.93	65,541.96	27,246.42	38,295.54
120	1.36	7.51	54,074.83	29,516.96	24,557.88
130	1.29	7.09	55,321.95	31,787.49	23,534.46
140	1.22	6.72	56,484.65	34,058.03	22,426.63
150	1.16	6.40	57,574.52	36,328.56	21,245.96
160	1.11	6.10	58,600.88	38,599.10	20,001.75
170	1.06	5.84	59,571.38	40,869.63	18,701.75
180	1.02	5.60	60,492.31	43,140.17	17,352.15

FULL PATH: K:\chris21008_kirkman\Industrial\Drawings\03_ENGR003 - Production\kirkman\002_crowd\Industrial\Drawings\03_ENGR003 - Production\03_1 STORM PLAN_LNK1006.dwg

FILENAME: 03_1 STORM PLAN_LNK1006.dwg
PLOTTER: B* Microtech
PLOT DATE: 05/19/2022



Know what's below.
Call before you dig.



SITE BENCHMARKS

- BM NO. 1 THE BENCHMARK IS AN "X" CUT SET WITH BOX ON THE NORTH SIDE OF A SIDEWALK ON THE NORTH SIDE OF SH-276, LOCATED APPROXIMATELY 29 FEET WEST OF A HEADWALL, AND APPROXIMATELY 100 FEET EAST OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEVATION = 582.49' (NAVD '88)
- BM NO. 2 THE BENCHMARK IS AN "X" CUT SET WITH BOX ON THE BACK OF CURB NORTH OF THE SUBJECT TRACT, LOCATED APPROXIMATELY 364 FEET EAST OF THE NORTHWEST CORNER OF THE SUBJECT TRACT, AND APPROXIMATELY 80' WEST OF THE CORNER OF THE SUBJECT TRACT.
ELEVATION = 586.12' (NAVD '88)

LEGEND

- PROPOSED CURB INLET
PROPOSED STORM DRAIN
EXISTING STORM DRAIN
PROPOSED GRATE INLET
PROPOSED STORM JUNCTION BOX
PROPERTY BOUNDARY

STORM DRAIN NOTES:

- REFER TO SHEET C10.0 - C10.2 FOR STORM DRAIN DETAILS.
- CONTRACTOR SHALL RAISE/LOWER OR ADJUST ALL EXISTING FRANCHISE UTILITY LINES IN CONFLICT WITH PROPOSED UTILITIES AS PART OF THE BASE BIDS FOR ALL KNOWN OR UNKNOWN LINES.

NOTE TO CONTRACTOR

EXISTING PRIVATE AND PUBLIC STORM SEWER AND UTILITY INFRASTRUCTURE ARE SHOWN PER RECORD DRAWING PLANS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES (WHETHER SHOWN ON PLANS OR NOT) PRIOR TO COMMENCING CONSTRUCTION. IF FIELD CONDITIONS DIFFER FROM LOCATIONS SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

INNOVATION DRIVE
(60 R.O.W., AS SHOWN ON VOL. H, PGS. 221-222, P.R.R.C.T.)



GRAPHIC SCALE

0 40 80 FEET
SCALE: 1" = 40'



525 S. LOOP 288,
SUITE 105
DENTON, TX 76205
(940) 566-5465

INTEGRATED DEFENSE
PRODUCTS TM

LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
(2.508 ACRES) J.M. ALLEN SURVEY A-2

RECORD DRAWING

THIS RECORD DRAWING IS A COMPILED COPY OF THE APPROVED SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDUM CHANGE ORDERS AND INFORMATION PROVIDED BY THE CONTRACTOR TO THE ENGINEER. THE ENGINEER HAS REVIEWED THIS INFORMATION AND HAS DETERMINED THAT THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

BY: JEREMY B. NELSON, P.E. DATE: 05/19/2022



KIRKMAN ENGINEERING, LLC
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
TEXAS FIRM NO. 15874

JOB NUMBER: LNK21005

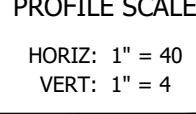
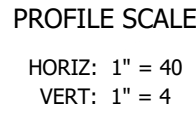
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STORM PLAN

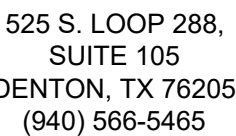
SHEET:

C6.3

E2022-013

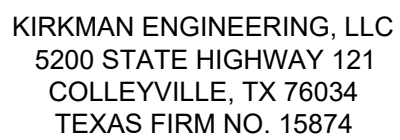


E2022-013



LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS

BY: JEREMY B. NELSON, P.E.



ISSUE DATE: 05/19/2022

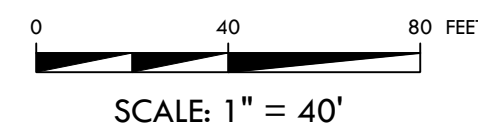
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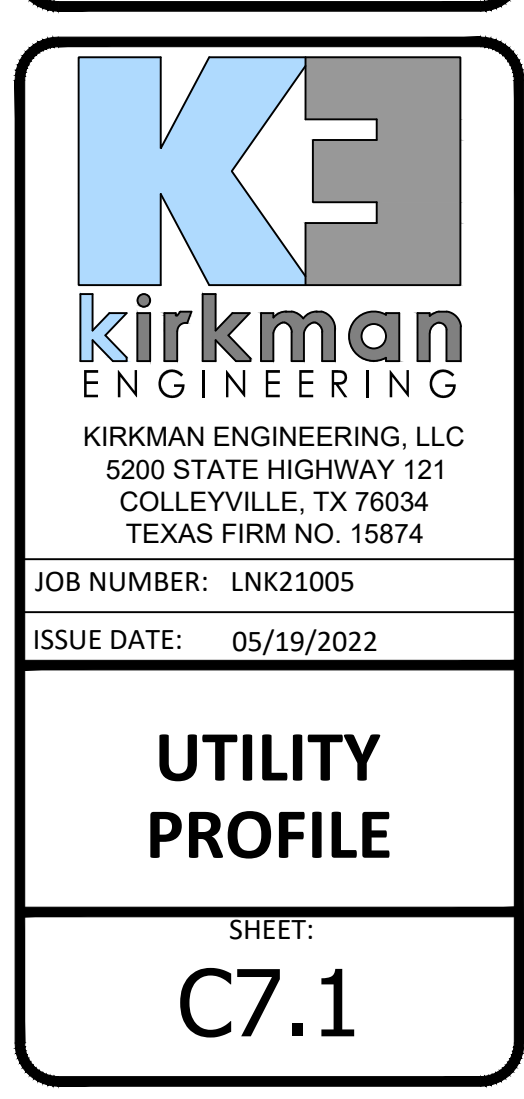
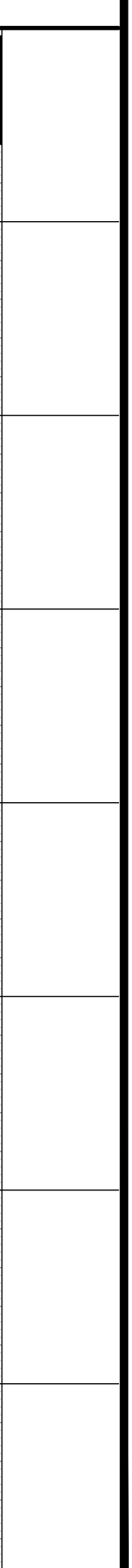
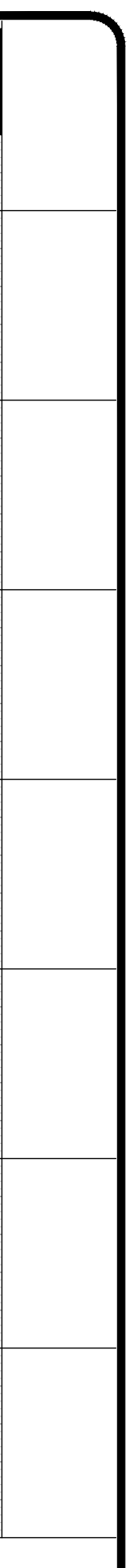
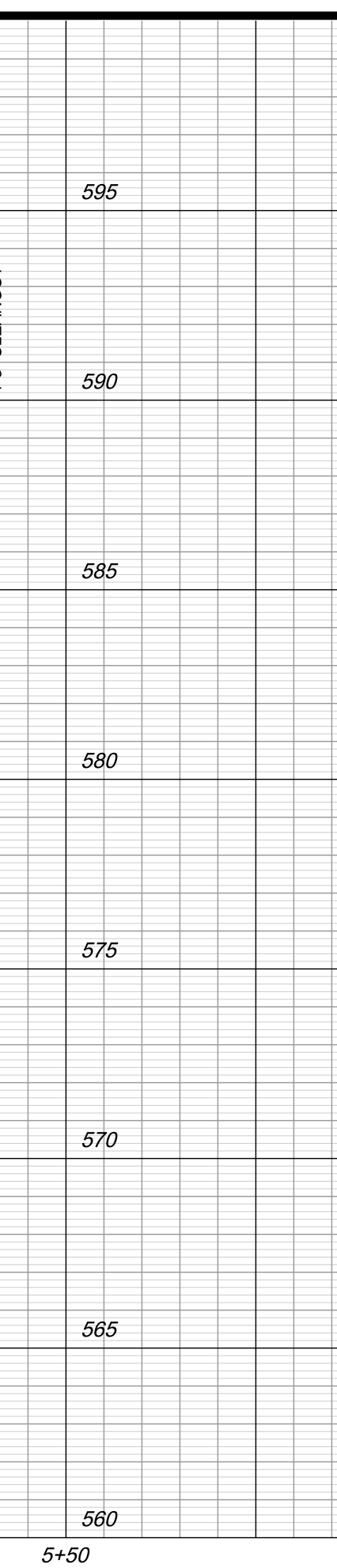
C6.4



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

GRAPHIC SCALE





FILE PATH: K:\Drawings\2022\Rockwall Technology Park\2022-222-Paving Plan.dwg
PLT PATH: K:\Drawings\2022\Rockwall Technology Park\2022-222-Paving Plan.dwg
PLOT DATE: 05/19/2022

DESIGNED: C.D. PARKER, P.E., LANC 1001-0001
CHECKED: J. NELSON, P.E., LANC 138740
PLOT DATE: 05/19/2022

LEGEND

PARKING AREAS

6" 3,600 PSI CLASS "C" (28 DAYS)
REIN. CONC. PAVEMENT
W/ No. 3 BARS @ 18" O.C.E.W. (6.5 SACK MIX)

FIRE LANE & DUMPSTER AREAS

7" 3,600 PSI CLASS "C" (28 DAYS)
REIN. CONC. PAVEMENT
W/ No. 4 BARS @ 18" O.C.E.W. (6.5 SACK MIX)

TXDOT PAVEMENT

12" 4,500 PSI (7.5 SACK MIX)
(28 DAYS) REIN. CONC.
W/ No. 6 BARS @ 8" O.C.E.W. &
No. 5 @ 48" O.C.E.W. TRANSVERSE
OVER 4" TYPE D ASPHALT BASE
W/ 6" LIME STABILIZED SUBGRADE

PRIVATE SIDEWALK & PILOT CHANNEL

4" 3,000 PSI CLASS "A"
(28 DAYS) REIN. CONC.
W/ No. 3 BARS @ 18" O.C.E.W. (5.5 SACK MIX)

PUBLIC SIDEWALK

4" 3,000 PSI CLASS "A"
(28 DAYS) REIN. CONC.
W/ No. 3 BARS @ 18" O.C.E.W. (5.5 SACK MIX)

TXDOT SIDEWALK
(REFER DETAIL
CSWD (FTW))

CITY OF ROCKWALL DRIVE APPROACH

7" 3,600 PSI CLASS "C" (28 DAYS)
REIN. CONC. PAVEMENT
W/ No. 4 BARS @ 18" O.C.E.W. (6.5 SACK MIX)
ON 6" LIME STABILIZED SUBGRADE

PROPERTY BOUNDARY

PAVING NOTES

- PAVING RECOMMENDATIONS ARE MADE BY D&S ENGINEERING LABS REPORT No. GP21-2349 DATED 12/2021.
- CONTRACTOR SHALL OBTAIN A COPY OF SAID GEOTECHNICAL ENGINEERING REPORT AND FAMILIARIZE THEMSELVES PRIOR TO BIDDING AND CONSTRUCTING THE IMPROVEMENTS OF THE PROJECT.
- ALL PROPOSED PUBLIC PAVEMENT TO BE PER THE CITY OF ROCKWALL STANDARDS & SPECIFICATIONS.
- PAINT PARKING STALL STRIPE 4" SOLID WHITE @ 9" O.C..
- PAINT ACCESSIBLE PARKING LOGO SOLID WHITE.
- PAINT ACCESSIBLE PEDESTRIAN CROSSWALK 6" SOLID WHITE REFLECTIVE @ 2" O.C. @ 45°.
- PAINT FIRE LANE STRIPE IN ACCORDANCE WITH LOCAL AUTHORITIES' STANDARDS. STRIPE SHALL BE 6" "TRAFFIC RED" WITH 4" HIGH "TRAFFIC WHITE" LETTERS.
- REFER TO SHEET C13.0 - C13.1 FOR PAVING DETAILS.
- CONTRACTOR SHALL FURNISH A JOINTING PLAN FOR ENGINEER REVIEW.
- INSTALLATION AND PLACEMENT OF IRRIGATION SLEEVES AND UTILITY CONDUITS SHALL BE IN ACCORDANCE WITH LANDSCAPE ARCHITECT AND MEP PLANS. CONTRACTOR TO VERIFY ALL SLEEVES HAVE BEEN PLACED PRIOR TO PAVING BEING PLACED.

NOTE TO CONTRACTOR

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CONCRETE PAVEMENT

SCARIFY AND COMPACT SUBGRADE TO MIN. 95% MAX. DRY DENSITY (STD. PROCTOR) AT MOISTURE CONTENT +2% ABOVE OPTIMUM. LIME STABILIZE (6% HYDRATED LIME BY WEIGHT)

NO. 3 BARS @ 18" O.C.E.W. (PARKING AREAS & SIDEWALKS)
NO. 4 BARS @ 18" O.C.E.W. (DUMPSTER AREAS, FIRE LANES & CITY DRIVE APPROACH)
TXDOT
NO. 6 BARS @ 8" O.C.E.W. & NO. 5 @ 48" O.C.E.W. (TRANSVERSE)

T/2

T

S

NOTE:
ALL FIRE LANES TO BE CONSTRUCTED TO CITY OF ROCKWALL STANDARDS. REFER TO CITY OF ROCKWALL STANDARD DETAILS FOR PAVING AND SUBGRADE SPECIFICATIONS AND RECOMMENDATIONS.

T = 4", 3000 PSI @ 28 DAYS (MIN. 5.5 SACK MIX) - SIDEWALKS
T = 5", 3600 PSI @ 28 DAYS (MIN. 6.5 SACK MIX) - PUBLIC BARRIER FREE RAMPS
T = 6", 3600 PSI @ 28 DAYS (MIN. 6.5 SACK MIX) - PARKING LOT AREAS
T = 7", 3600 PSI @ 28 DAYS (MIN. 6.5 SACK MIX) - FIRE LANE, DUMPSTER AREAS & CITY OF ROCKWALL DRIVE APPROACH
S = 6" LIME STABILIZED SUBGRADE (PARKING LOT AREAS)
S = 8" LIME STABILIZED SUBGRADE (FIRELANE, DUMPSTER AREAS, CITY OF ROCKWALL DRIVE APPROACH)

1

TYPICAL PAVEMENT SECTION

NOT TO SCALE

811

Know what's below.
Call before you dig.

N

GRAPHIC SCALE

0 40 80 FEET

SCALE: 1" = 40'

STATE OF TEXAS
JEREMY B. NELSON
138740
LICENSED PROFESSIONAL ENGINEER
05/19/2022

LINKS CONSTRUCTION

BUILDING & DEVELOPING THE FUTURE

525 S. LOOP 288,
SUITE 105
DENTON, TX 76205
(940) 566-5465

INTEGRATED DEFENSE PRODUCTS TM

LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
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BY: JEREMY B. NELSON, P.E. DATE: 10/02/2023

Kirkman Engineering

KIRKMAN ENGINEERING, LLC
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
TEXAS FIRM NO. 15874

JOB NUMBER: LNK211005
ISSUE DATE: 05/19/2022

PAVING PLAN

SHEET:
C8.0

E2022-013

PLAN: EROSION CONTROL, LNK21005.dwg
PLOT DATE: 05/19/2022
PLOT BY: J. NELSON
PLOT DATE: 05/19/2022

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

EROSION CONTROL MAINTENANCE NOTES:

- ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON ON A SCHEDULE WHICH COMPLIES WITH THE GENERAL PERMIT REQUIREMENTS AND CLEANED AND REPAIRED WITHIN 48 HOURS OF THE INSPECTION IN ACCORDANCE WITH THE FOLLOWING:
 - INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
 - ALL SEEDING AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED.
 - SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
 - THE TEMPORARY PARKING AND STORAGE AREA (IF PRESENT) SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
 - OUTLET STRUCTURES IN THE SEDIMENTATION BASINS OR SEDIMENT TRAPS (IF PRESENT) SHALL BE MAINTAINED IN OPERATIONAL CONDITION AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
 - MAINTENANCE PROCEDURES FOR THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SPECIFIED ARE GIVEN IN SECTION 5 OF THE STORM WATER POLLUTION PREVENTION PLAN.

EROSION CONTROL SEQUENCE:

- INSTALL SILT FENCES AROUND PERIMETER OF PROPERTY AND DISTURBED AREAS AS SHOWN.
- INSTALL INLET PROTECTION FOR ALL EXISTING GRADE INLETS, CURB INLETS AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES, IF PRESENT.
- CONSTRUCT TEMPORARY CONSTRUCTION EXIT.
- COMMENCE GRUBBING AND REMOVAL OF VEGETATION IN AREA TO RECEIVE CUT OR FILL.
- COMMENCE GRADING OPERATION FOR BUILDING PAD PREPARATION.
- INSTALL ALL UNDERGROUND UTILITIES.
- FINALIZE PAVEMENT SUBGRADE PREPARATION.
- INSTALL ALL PROPOSED STORM SEWER PIPES AND INSTALL INLET PROTECTION SILT FENCES AT ENDS OF EXPOSED PIPES.
- CONSTRUCT ALL GRATE INLETS AND DRAINAGE STRUCTURES. INLET PROTECTION SILT FENCES MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION.
- REMOVE SILT FENCES AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
- INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT, CURB & GUTTER.
- INSTALL ALL PAVING, CURB & GUTTER.
- COMPLETE PLANTING AND/OR SEEDING OF VEGETATED AREAS TO ACCOMPLISH STABILIZATION, IN ACCORDANCE WITH NOTOG STANDARDS.
- REMOVE TEMPORARY CONSTRUCTION EXIT & SILT FENCES.

VEGETATIVE STABILIZATION REQUIREMENTS

TEMPORARY SEEDING:

ALL DISTURBED AREAS WHICH WILL BE LEFT DORMANT FOR GREATER THAN 14 DAYS SHALL BE SEED WITH FAST-GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING OPERATIONS. SELECTION OF THE SEED WILL DEPEND ON THE TIME OF YEAR IT IS APPLIED (SEE DESCRIPTIONS IN TABLE 2). ALL TEMPORARY SEEDING MATERIALS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO APPLICATION.

TABLE 2 - VEGETATION TABLE (USE ONLY USDA CERTIFIED SEED)

SPECIES	PLANTING RATE	PLANTING DATES
CRIMSON CLOVER	7 (LBS/AC.)	08/15-11/30
MILLET, FOXTAIL	30 (LBS/AC.)	05/01-08/31
RYEGRASS, ANNUAL	30 (LBS/AC.)	08/15-09/30
SPRANGLETOP, GREEN	2.5 (LBS/AC.)	02/01-05/01
TALL FESCUE	7-10 (LBS/AC.)	09/01-10/15

SURFACE PREPARATION FOR TEMPORARY SEEDING:

- INSTALL EROSION STRUCTURES SUCH AS DIKES, DIVERSIONS, ETC. PRIOR TO SEEDING.
- FURROW SLOPES GREATER THAN 3:1 ON THE CONTOUR LINE BEFORE SEEDING.
- ENSURE SEED BED IS PULVERIZED, LOOSE AND UNIFORM.

APPLICATION:

- WHEN HYDRO-MULCHING IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES PRIOR TO APPLICATION.
- APPLY SEED EVENLY USING PROPER EQUIPMENT AND WATER TO AID VEGETATION GROWTH.
- EROSION CONTROL NETTING SHALL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEED TO PROTECT AGAINST EROSION. MULCH (STRAW OF FIBER) SHALL BE USED ON RELATIVELY FLAT SLOPES.

NOTES FOR CHANGES TO SWPPP:

CONTRACTOR SHALL BE REQUIRED TO UPDATE THIS SWPPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, OR WHENEVER THE RESULT OF AN INSPECTION INDICATES THAT THIS SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN STORMWATER DISCHARGES. HOWEVER, THE REGULATIONS OF THE TEXAS BOARD OF PROFESSIONAL ENGINEERS REQUIRE THAT CHANGES MADE BY THE CONTRACTOR DURING CONSTRUCTION MUST BE AUTHORIZED BY A LICENSED TEXAS ENGINEER. THESE CHANGES MAY BE AUTHORIZED BY THE ENGINEER OF RECORD THROUGH UPDATED DRAWINGS, WORK ORDER CHANGES, OR OTHER METHODS ACCEPTABLE TO THE ENGINEER, OR BY ANOTHER ENGINEER PROVIDED THAT THEY NOTIFY THE ENGINEER OF RECORD.

NOTE TO CONTRACTOR

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LEGEND

PROPOSED LIMITS OF DISTURBANCE	LD
PROPOSED SILT FENCE	SF
PROPOSED INLET PROTECTION	
PROPOSED CONSTRUCTION ENTRANCE	
PROPOSED ROCK CHECK FILTER DAM	
PROPOSED CONCRETE WASHOUT PIT	
EXISTING CONTOUR	500
PROPOSED CONTOUR	500
EXISTING DRAINAGE FLOW ARROW	
PROPOSED DRAINAGE FLOW ARROW	
PROPERTY BOUNDARY	

SITE BENCHMARKS

- BM NO. 1 THE BENCHMARK IS AN "X" CUT SET WITH BOX ON THE NORTH SIDE OF A SIDEWALK ON THE NORTH SIDE OF SH-276, LOCATED APPROXIMATELY 29 FEET WEST OF A HEADWALL, AND APPROXIMATELY 100 FEET EAST OF THE SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEVATION = 582.49' (NAVD '88)
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ELEVATION = 586.12' (NAVD '88)

EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE TPDES.
- TOTAL DISTURBED AREA = 6.85 ACRES
- REFER TO SHEET C14.0 FOR EROSION CONTROL DETAILS.
- CONTRACTOR TO REESTABLISH VEGETATION IN ALL DISTURBED AREAS WHETHER SHOWN ON THESE PLANS OR NOT.

INTEGRATED DEFENSE
PRODUCTS TM

LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
(2.508 ACRES) J.M. ALLEN SURVEY A-2

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BY: JEREMY B. NELSON, P.E. DATE: 05/19/2022



KIRKMAN ENGINEERING, LLC
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
TEXAS FIRM NO. 15874

JOB NUMBER: LNK21005

ISSUE DATE: 05/19/2022

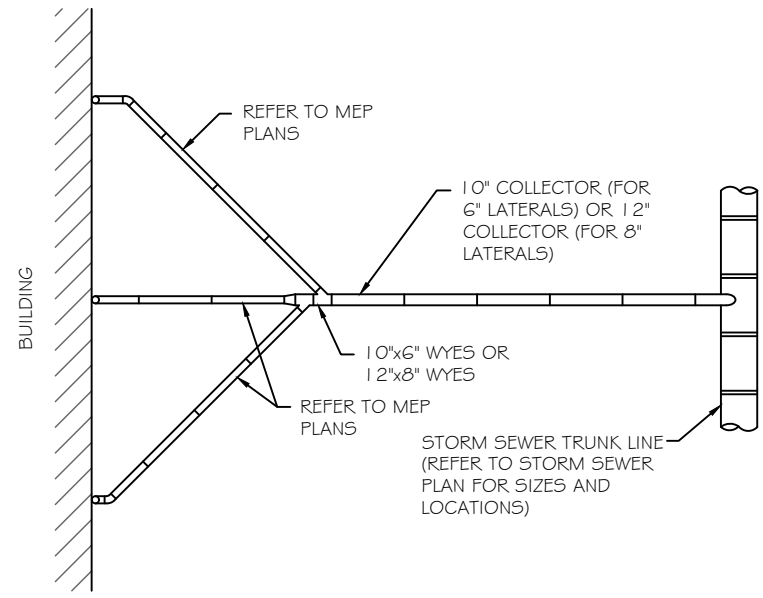
EROSION CONTROL PLAN

SHEET:

C9.0

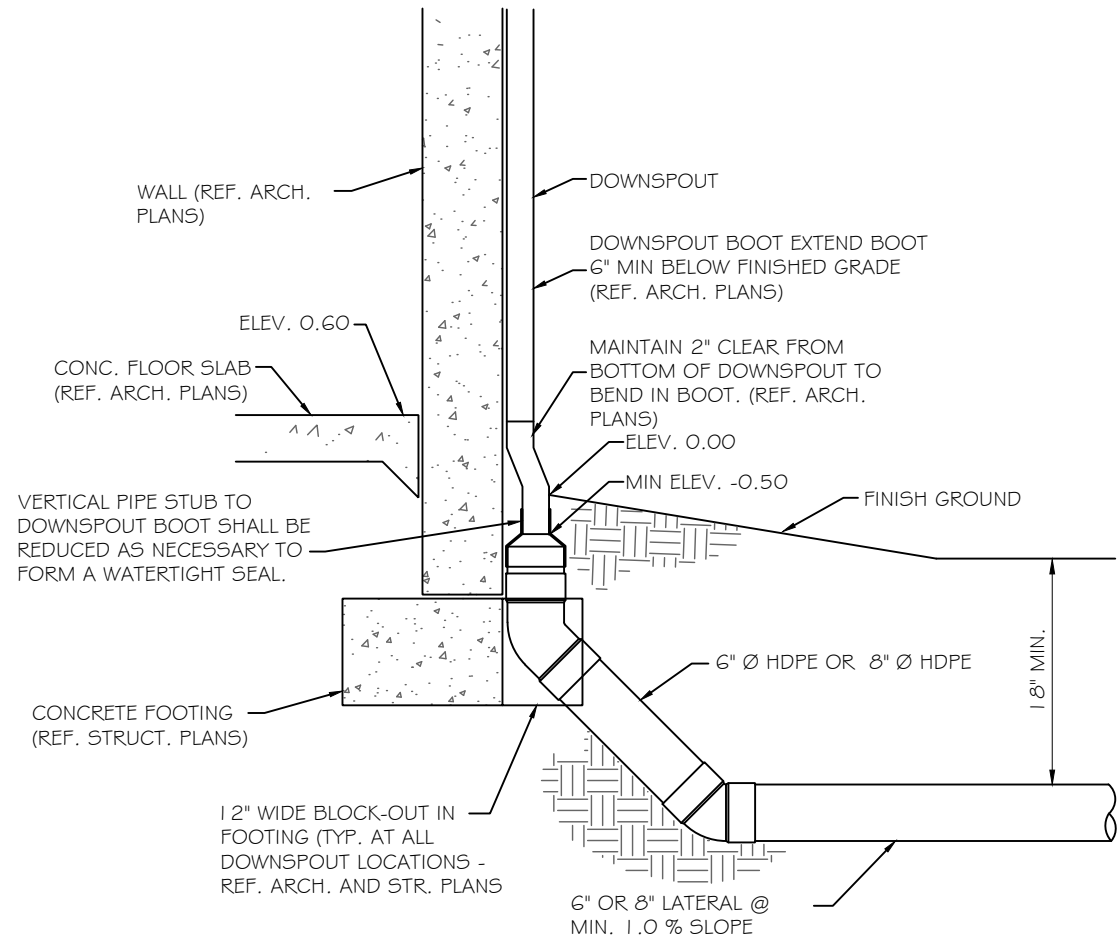
E2022-013

FULL PATH: K:\Drawings\21005 - rockwall\IndustrialDrawings\03 - Drainage Details\LINK21005 - Production\C10.0 Drainage Details LINK21005
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 PLOTTED BY: Michael Mendenhall
 PLOTTED DATE: 10/2/2022



SUGGESTED COLLECTOR LAYOUT

NOTE: ALTERNATE CONNECTION SCENARIOS ARE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER

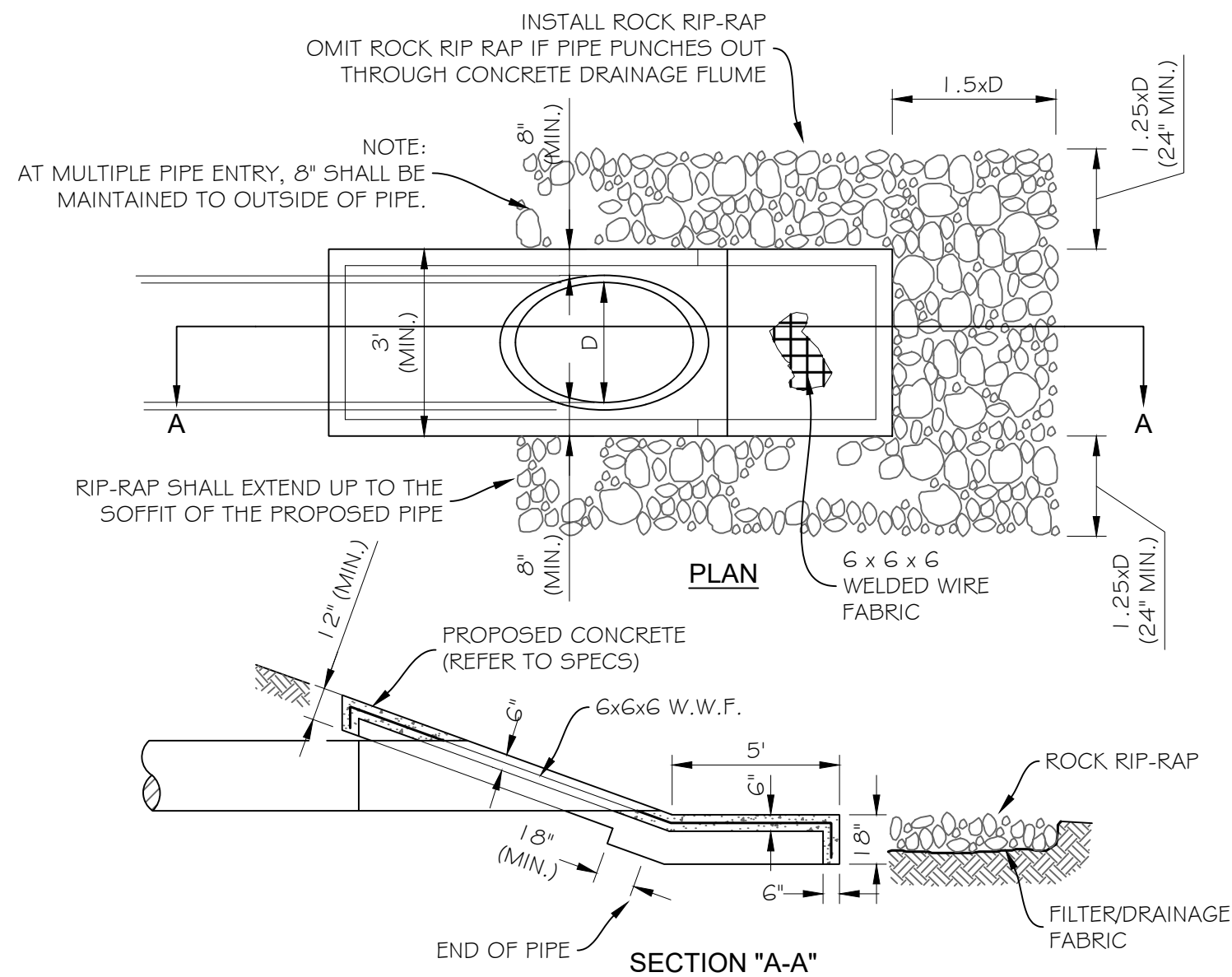


NOTES:

1. LATERAL AND COLLECTOR PIPING SHALL BE HDPE. THE CONTRACTOR SHALL MAINTAIN A WATERTIGHT CONNECTION BETWEEN DIFFERING PIPE TYPES.
2. REFER TO MEP PLANS FOR DOWNSPOUT SIZES. THE SITEWORK CONTRACTOR SHALL PROVIDE THE REQUIRED PIPE OPENING BASED ON THE CORRESPONDING DOWNSPOUT SIZE, BY USE OF A REDUCER.

DOWNSPOUT CONNECTION TO UNDERGROUND DRAIN DETAIL

N.T.S.

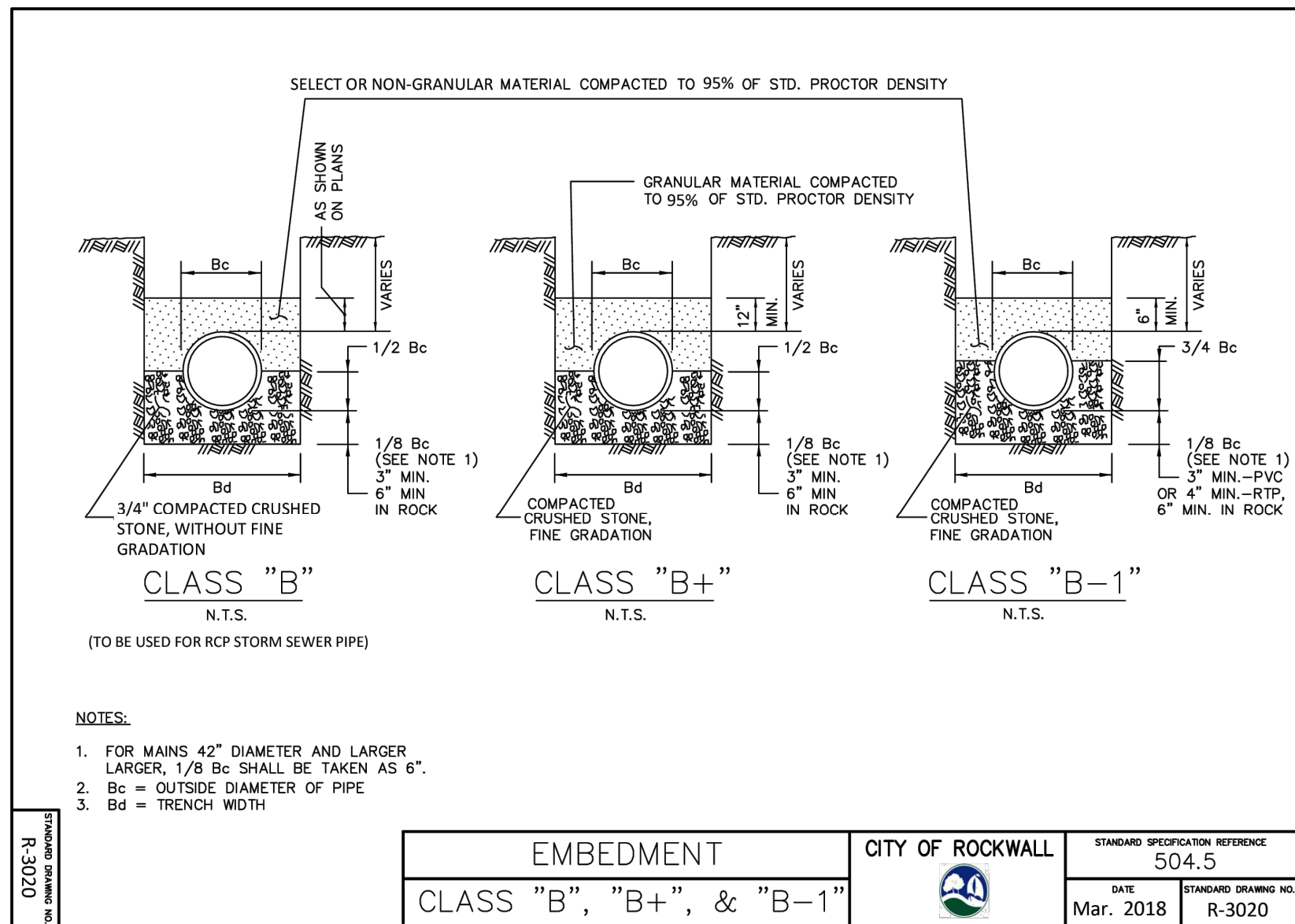


NOTES:

1. SLOPE PROTECTION SHALL BE INSTALLED ON ALL PIPES DISCHARGING INTO A POND.
2. HDPE PIPE SHALL NOT HAVE BEVELED END AND THUS SHALL UTILIZE A PRECAST HEADWALL BY OLDCASTLE PRECAST, AMERICAN INDUSTRIAL, CSR, OR HANSON PIPE.

HEADWALL/OUTFALL DETAIL

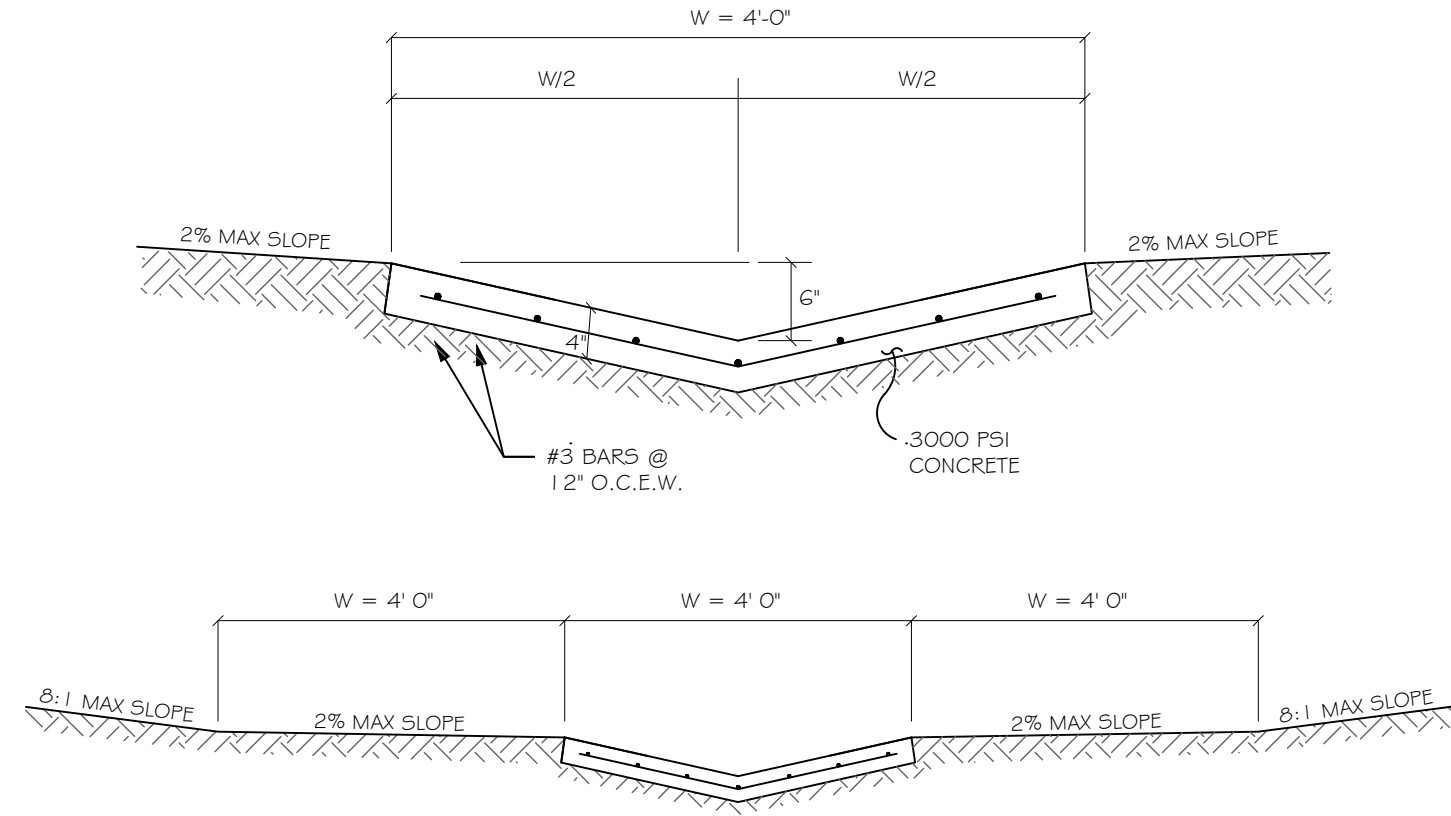
N.T.S.



NOTES:

1. FOR MAINS 42" DIAMETER AND LARGER, 1/8 Bc SHALL BE TAKEN AS 6".
2. Bc = OUTSIDE DIAMETER OF PIPE
3. Bd = TRENCH WIDTH

EMBEDMENT	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE
CLASS "B", "B+", & "B-1"		504.5
		DATE: Mar. 2018
		STANDARD DRAWING NO. R-3020

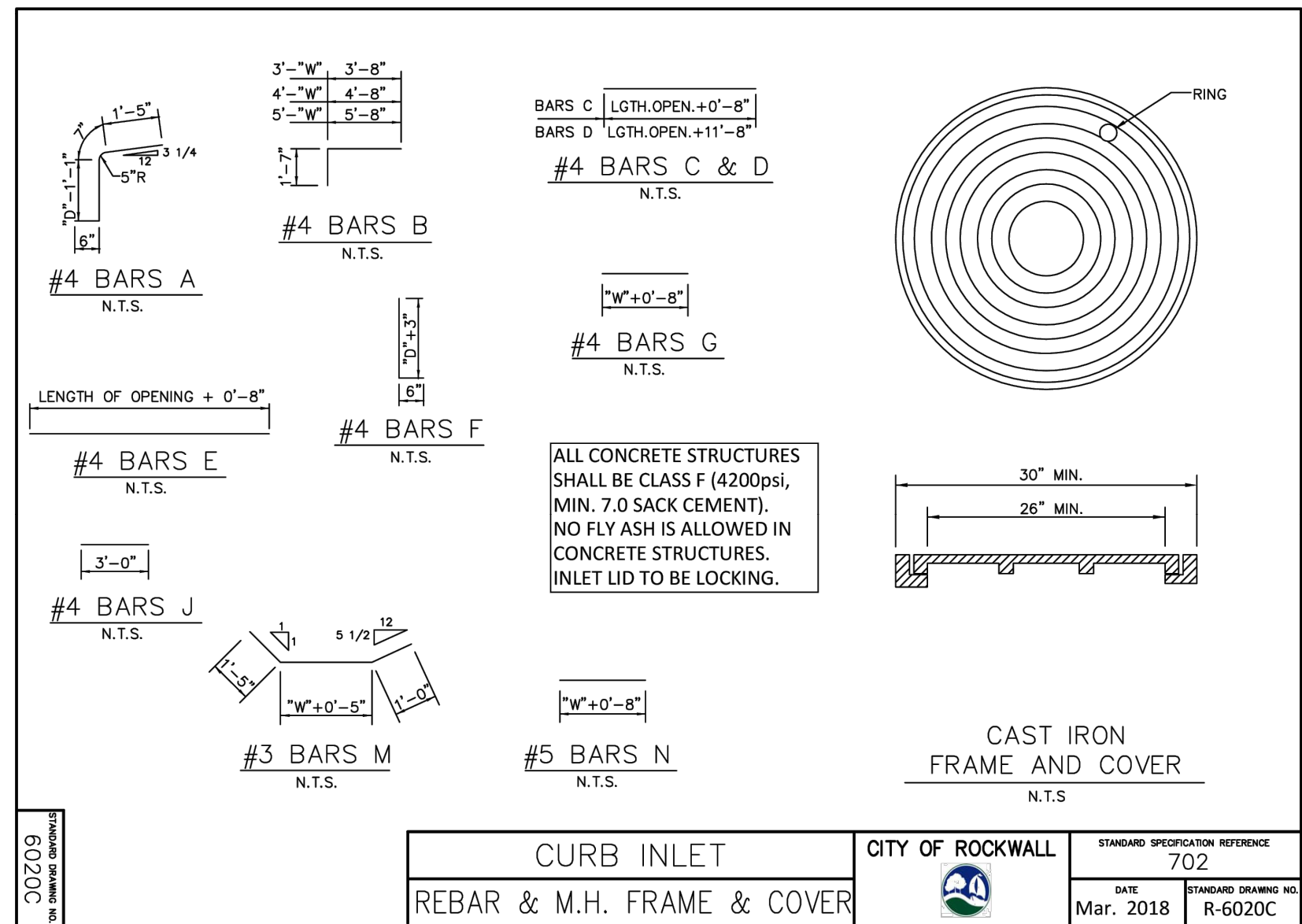


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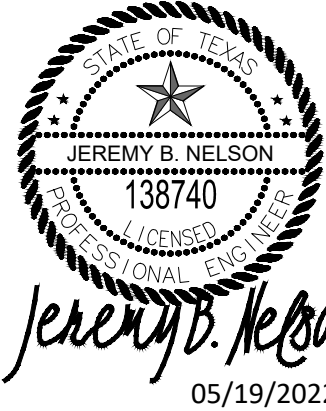
1. SIDE SLOPES TO BE HYDOMULCHED.

CONCRETE FLUME

N.T.S.



CURB INLET	CITY OF ROCKWALL	STANDARD SPECIFICATION REFERENCE
REBAR & M.H. FRAME & COVER		702
		DATE: Mar. 2018
		STANDARD DRAWING NO. R-6020C



525 S. LOOP 288,
SUITE 105
DENTON, TX 76205
(940) 566-5465

INTEGRATED DEFENSE
PRODUCTS TM

LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
(2.508 ACRES) J.M. ALLEN SURVEY A-2

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BY: JEREMY B. NELSON, P.E. DATE: 10/02/2022



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5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
TEXAS FIRM NO. 15874

JOB NUMBER: LNK21005

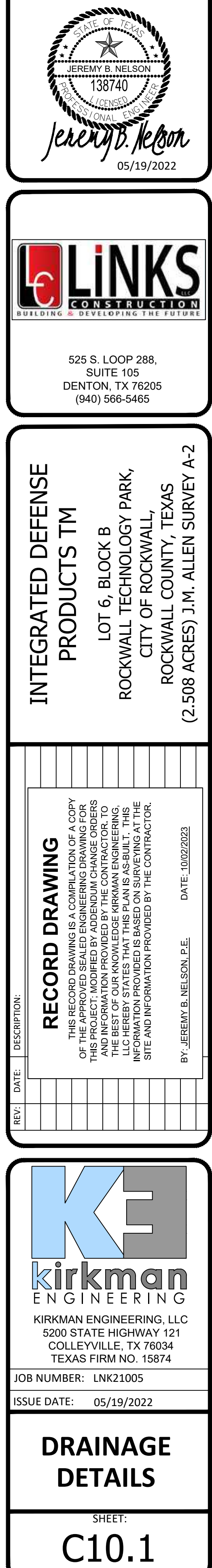
ISSUE DATE: 05/19/2022

DRAINAGE
DETAILS

SHEET:

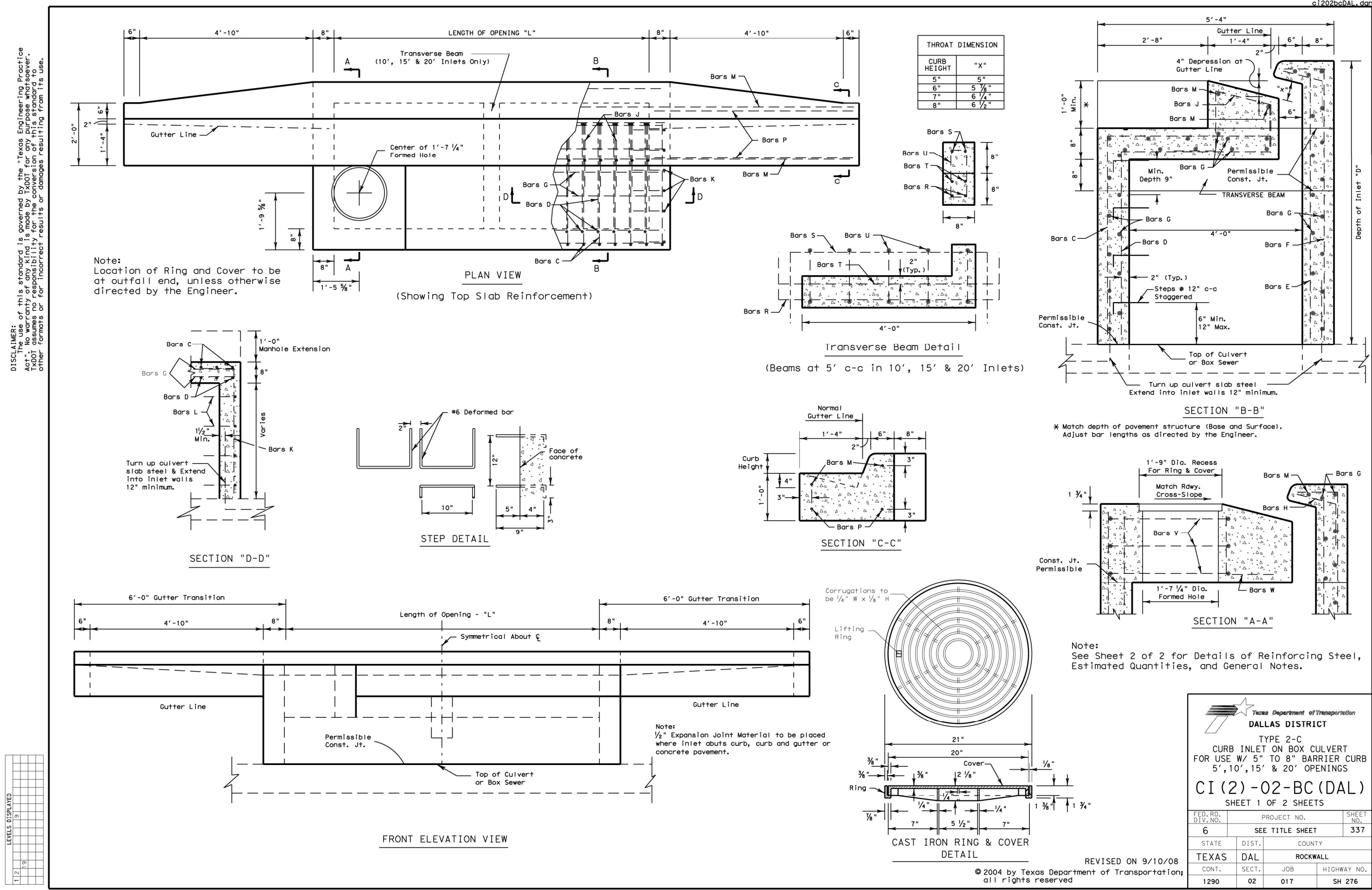
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E2022-013



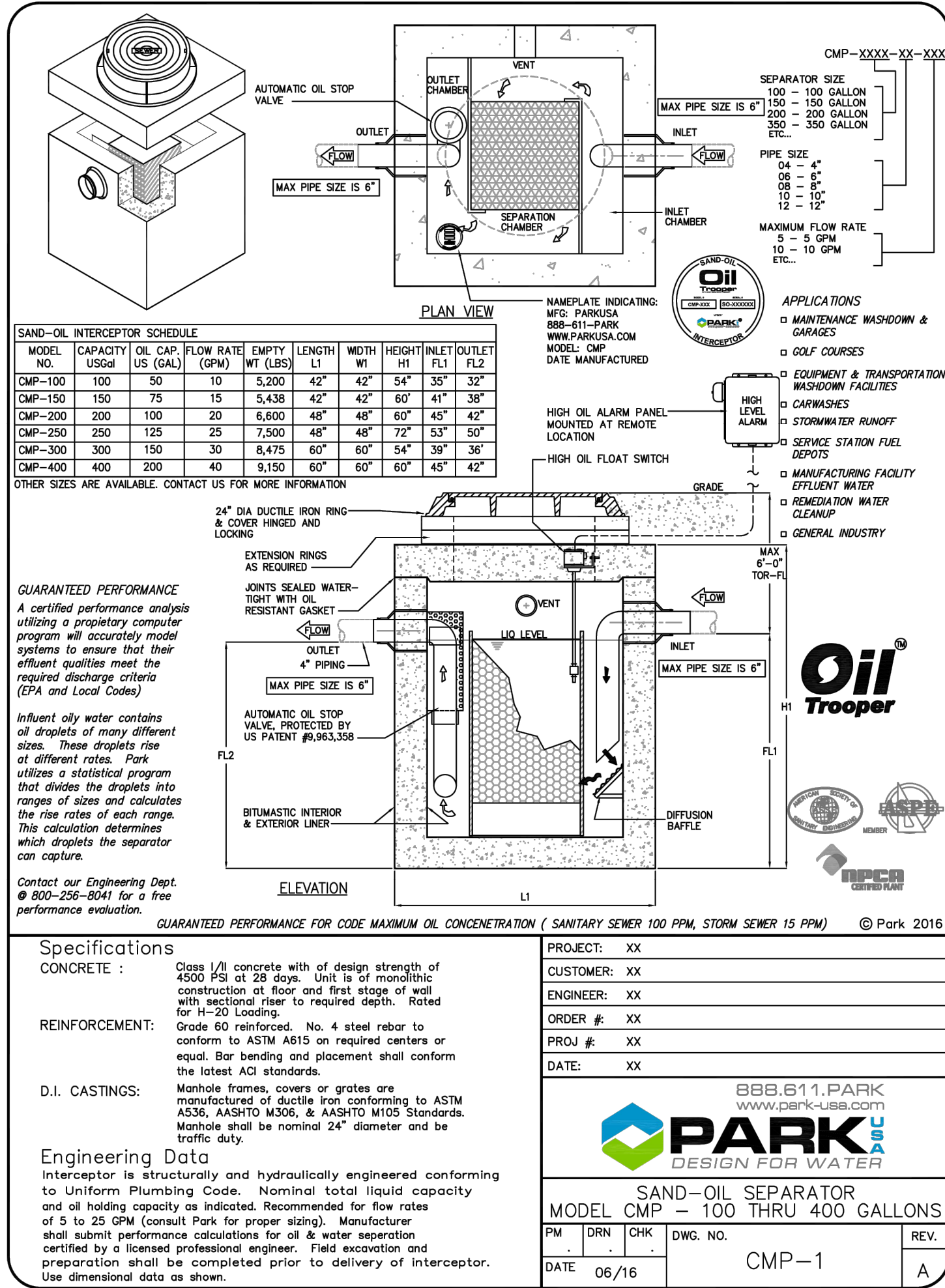
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PLOTTED BY: Michael Helmlich
PLOTTED DATE: 10/2/2023

BILL OF REINFORCING STEEL	DEPTH "D"	ALL AND	WIDTHS AND LENGTHS		OPENING LENGTH		"L" = 5 ft		OPENING LENGTH		"L" = 10 ft		OPENING LENGTH		"L" = 15 ft		OPENING LENGTH		"L" = 20 ft																																																																																																																																																																																																																				
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c10202p04.dwg

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525 S. LOOP 288,
 SUITE 105
 DENTON, TX 76205
 (940) 566-5465

INTEGRATED DEFENSE PRODUCTS TM

LOT 6, BLOCK B
 ROCKWALL TECHNOLOGY PARK,
 CITY OF ROCKWALL,
 ROCKWALL COUNTY, TEXAS
 (2.508 ACRES) J.M. ALLEN SURVEY A-2

RECORD DRAWING
 THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE APPROVED SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDUM CHANGES AND INFORMATION PROVIDED BY THE CONTRACTOR TO THE ENGINEER. THE ENGINEER'S SEAL AND SIGNATURE ARE NOT REQUIRED FOR THIS RECORD DRAWING. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

BY: JEREMY B. NELSON, P.E. DATE: 05/19/2022



KIRKMAN ENGINEERING, LLC
 5200 STATE HIGHWAY 121
 COLLEEVILLE, TX 76034
 TEXAS FIRM NO. 15874

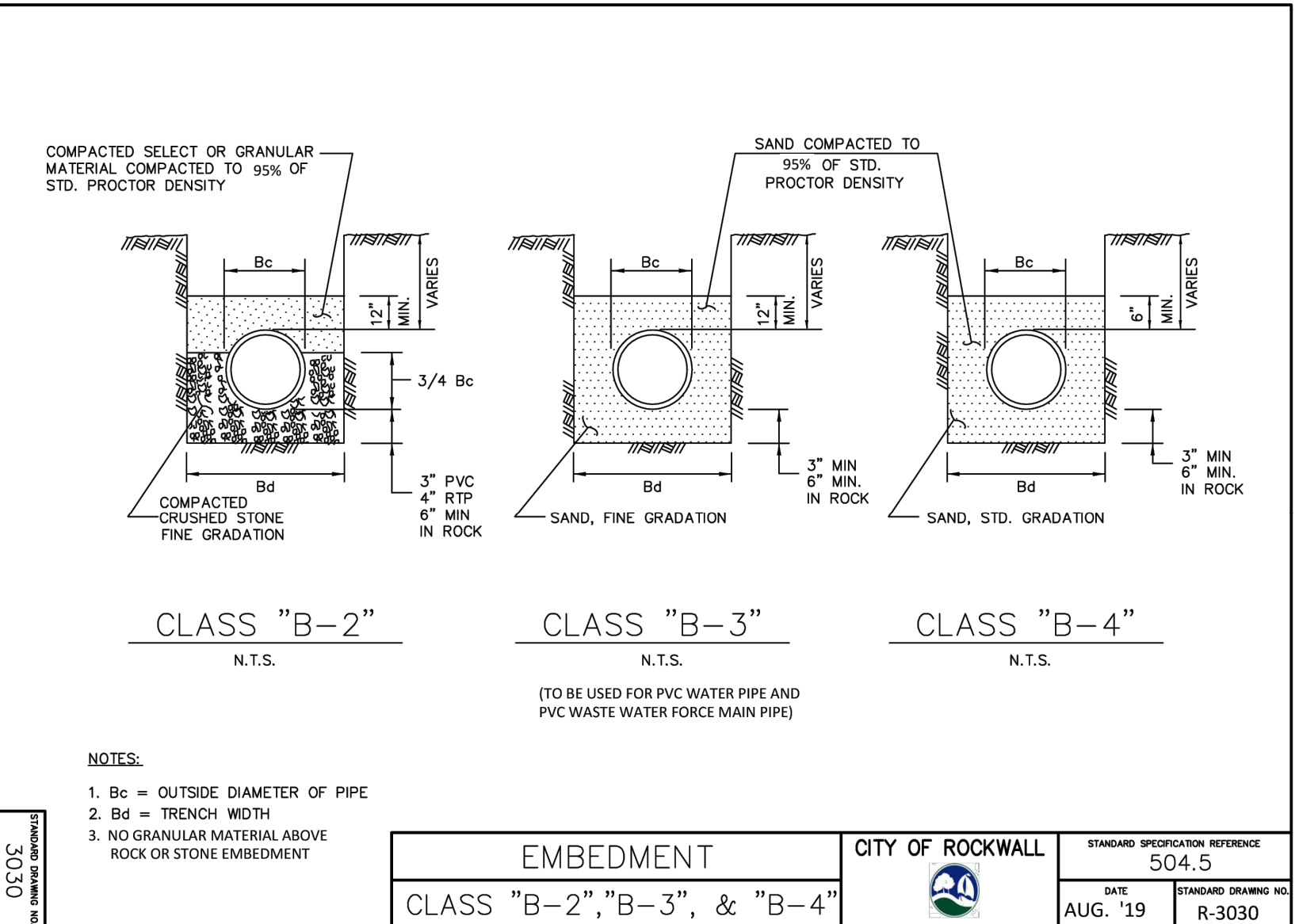
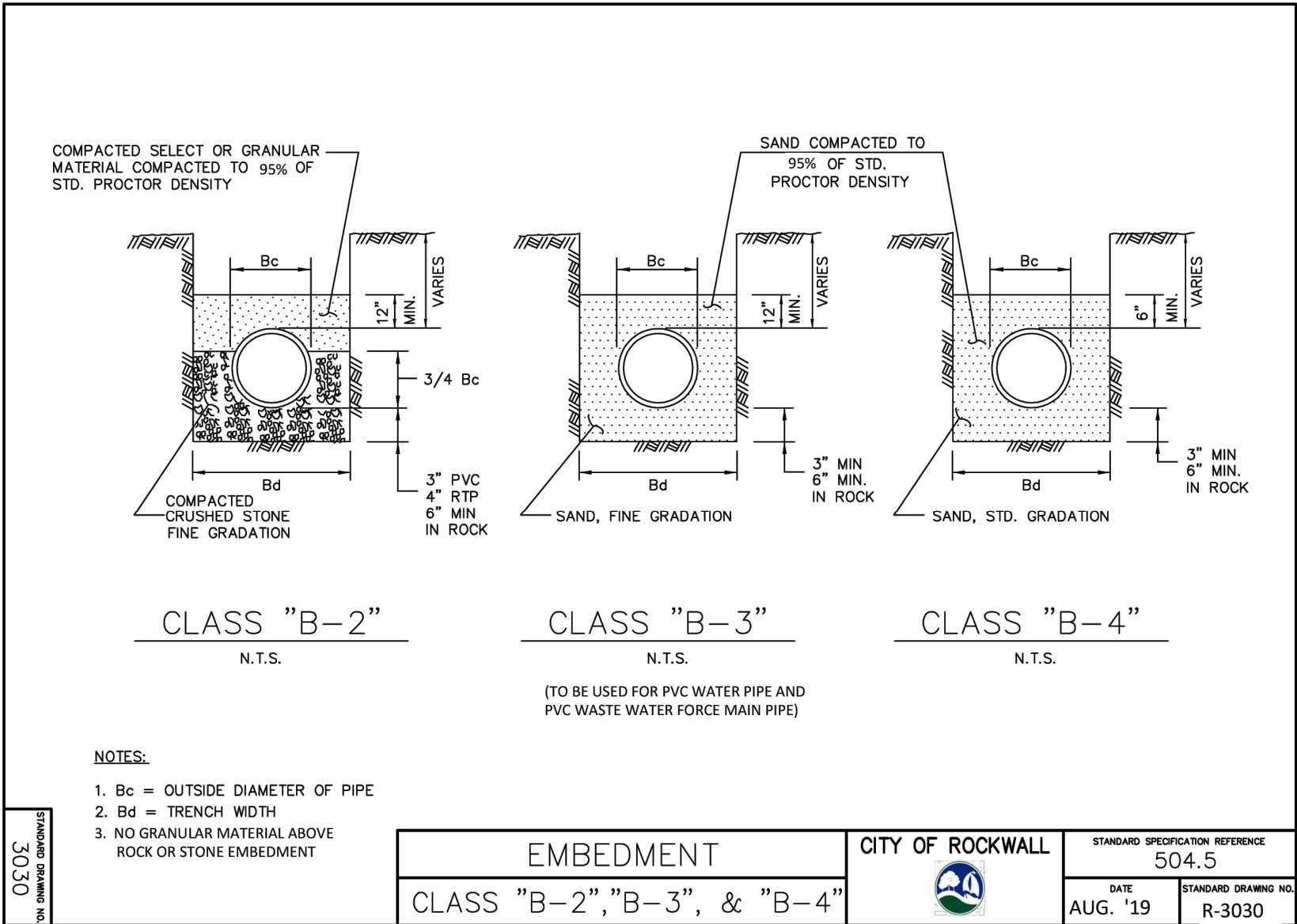
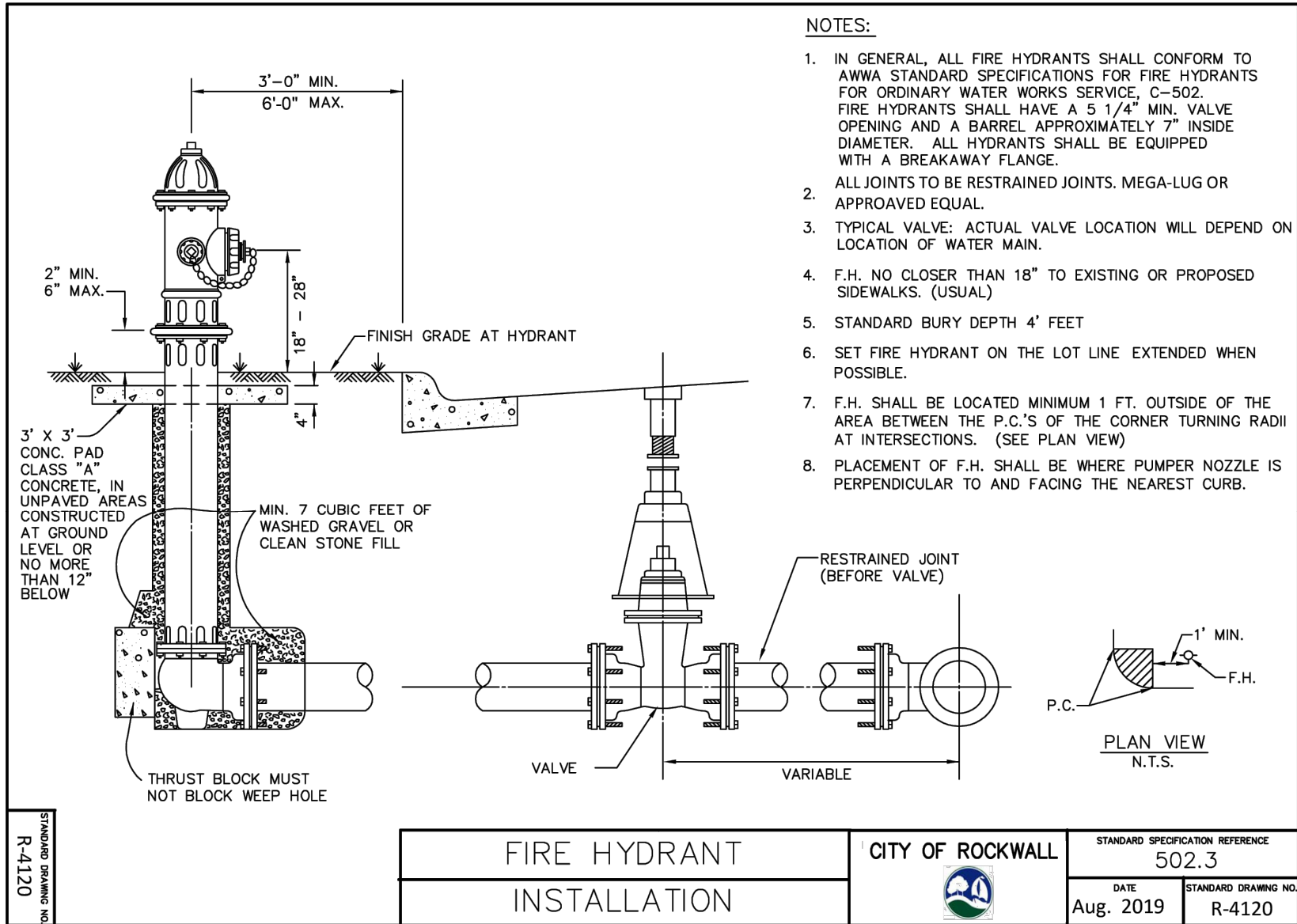
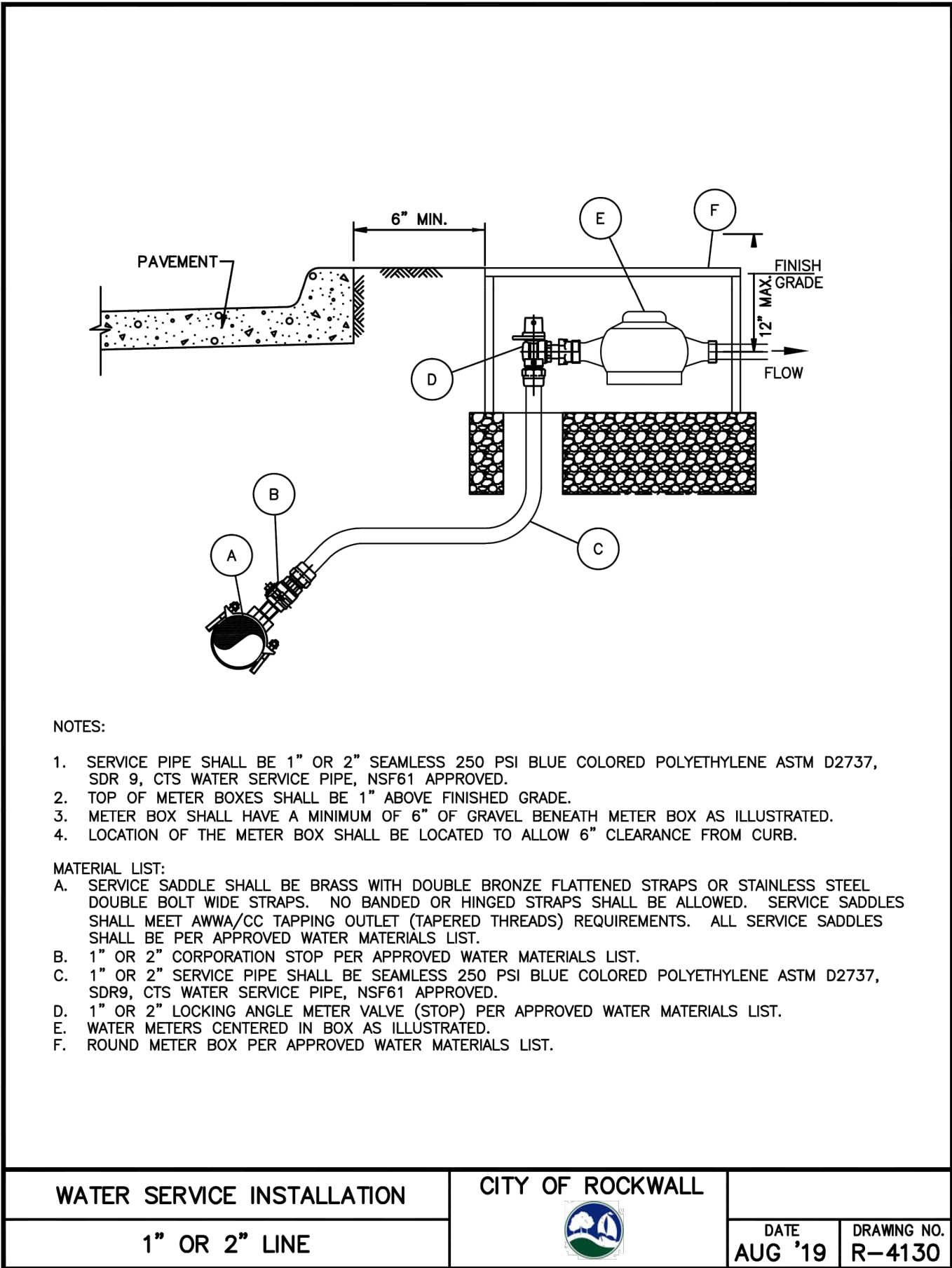
JOB NUMBER: LNK21005
 ISSUE DATE: 05/19/2022

DRAINAGE DETAILS

SHEET:
C10.2

E2022-013

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PLOT DATE: 10/2/2022
PLOTTER: C10.0 WATER DETAILS_LNK1005.dwg
PLOTTER BY: Michael Henthorn



525 S. LOOP 288,
SUITE 105
DENTON, TX 76205
(940) 566-5465

INTEGRATED DEFENSE
PRODUCTS TM
LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
(2.508 ACRES) J.M. ALLEN SURVEY A-2

RECORD DRAWING
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BY: JEREMY B. NELSON, P.E. DATE: 10/02/2022

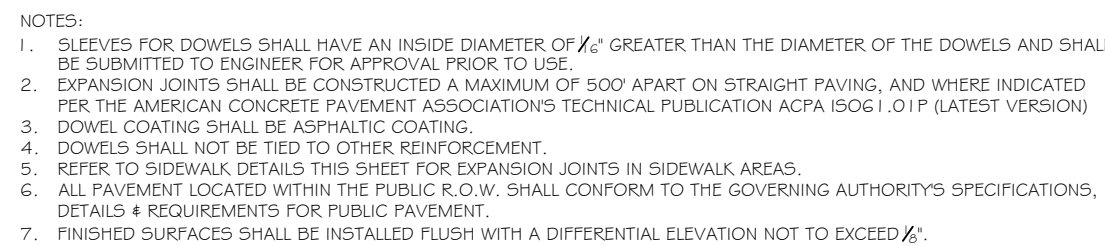


KIRKMAN ENGINEERING, LLC
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
TEXAS FIRM NO. 15874

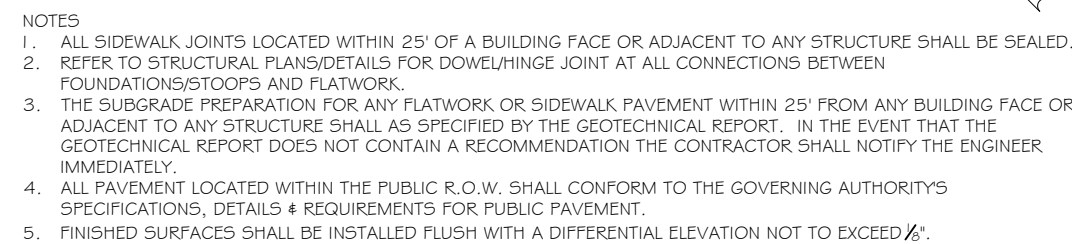
JOB NUMBER: LNK21005
ISSUE DATE: 05/19/2022

WATER
DETAILS
SHEET:
C11.0

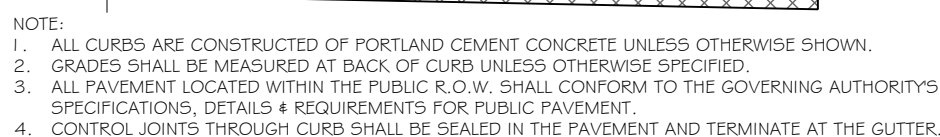
E2022-013



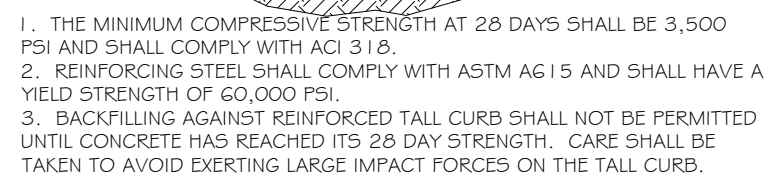
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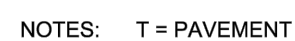
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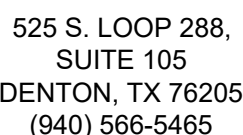
1. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
2. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
3. DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE.

LONGITUDINAL BUTT JOINT
NOT TO SCALE

REINFORCED CONCRETE PAVEMENT		<div>DATE</div> <div>OCT. '17</div>		<div>DRAWING NO.</div> <div>R-2051</div>	
LONGITUDINAL BUTT JOINT					

GENERAL NOTES

- NOTES:**
- 1. CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION SURFACE.
 - 2. RAMP SHALL BE CONSTRUCTED PER ADA 4. APPLICATIONS STATE ACCESSIBILITY STANDARDS.
 - 3. CURB RAMPS SHALL BE MONOLITHIC PAVED & SEPARATED FROM SITE PAVING WITH A DOWELED PAVEMENT JOINT.
- DETECTABLE WARNING SURFACE:**
- 1. TRUNCATED CONES SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
 - 2. TRUNCATED CONES TO RUN PARALLEL TO PEDESTRIAN TRAVEL.
- DETECTABLE WARNING SURFACE REQUIREMENTS ARE ACCEPTABLE:**
- GROOVED SURFACE:**
- 1. CURB SURFACE SHALL BE TEXTURED WITH GROOVES, 1/4" DEEP, 3/4" AND 2" APART AND PARALLEL TO ONE ANOTHER.
 - 2. GROOVES SHALL BE DESIGNED TO PREVENT WATER FROM ACCUMULATING IN THE GROOVES.
 - 3. CURB SURFACE SHALL HAVE A LIGHT REFLECTIVE VALUE AND TEXTURE THAT SIGNIFICANTLY DIFFERS FROM THE ADJOINING SURFACE.



INTEGRATED DEFENSE
PRODUCTS TM

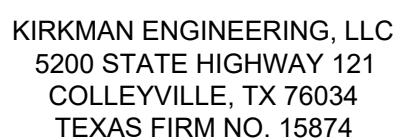
LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,

ROCKWALL COUNTY, TEXAS
(2.508 ACRES) J.M. ALLEN SURVEY A-2

RECORD DRAWING

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE APPROVED SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDUM CHANGE ORDERS AND INFORMATION PROVIDED BY THE CONTRACTOR, TO THE BEST OF OUR KNOWLEDGE KIRKMAN ENGINEERING, LLC HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

BY: JEREMY B. NELSON, P.E. DATE: 10/02/2023



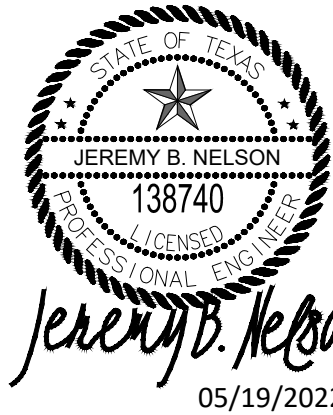
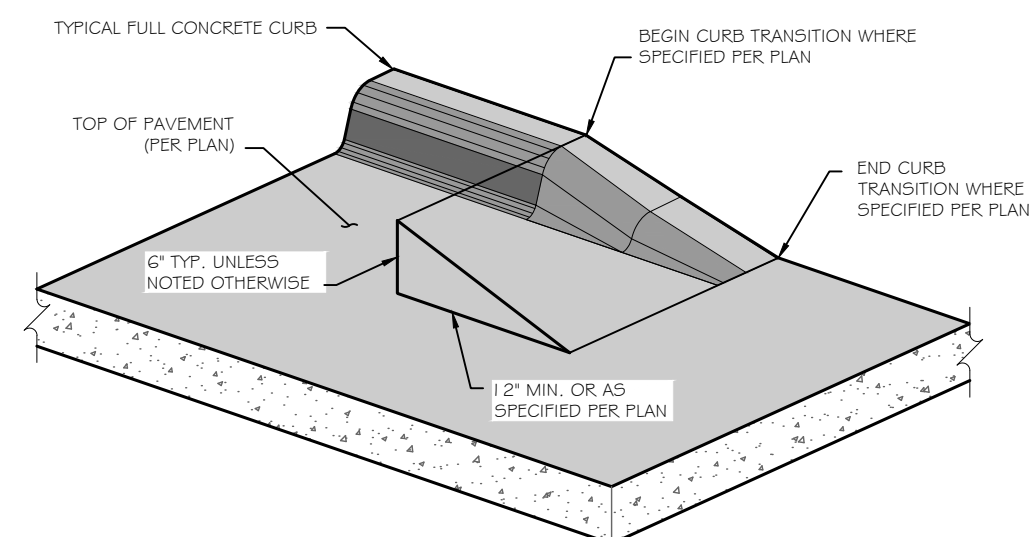
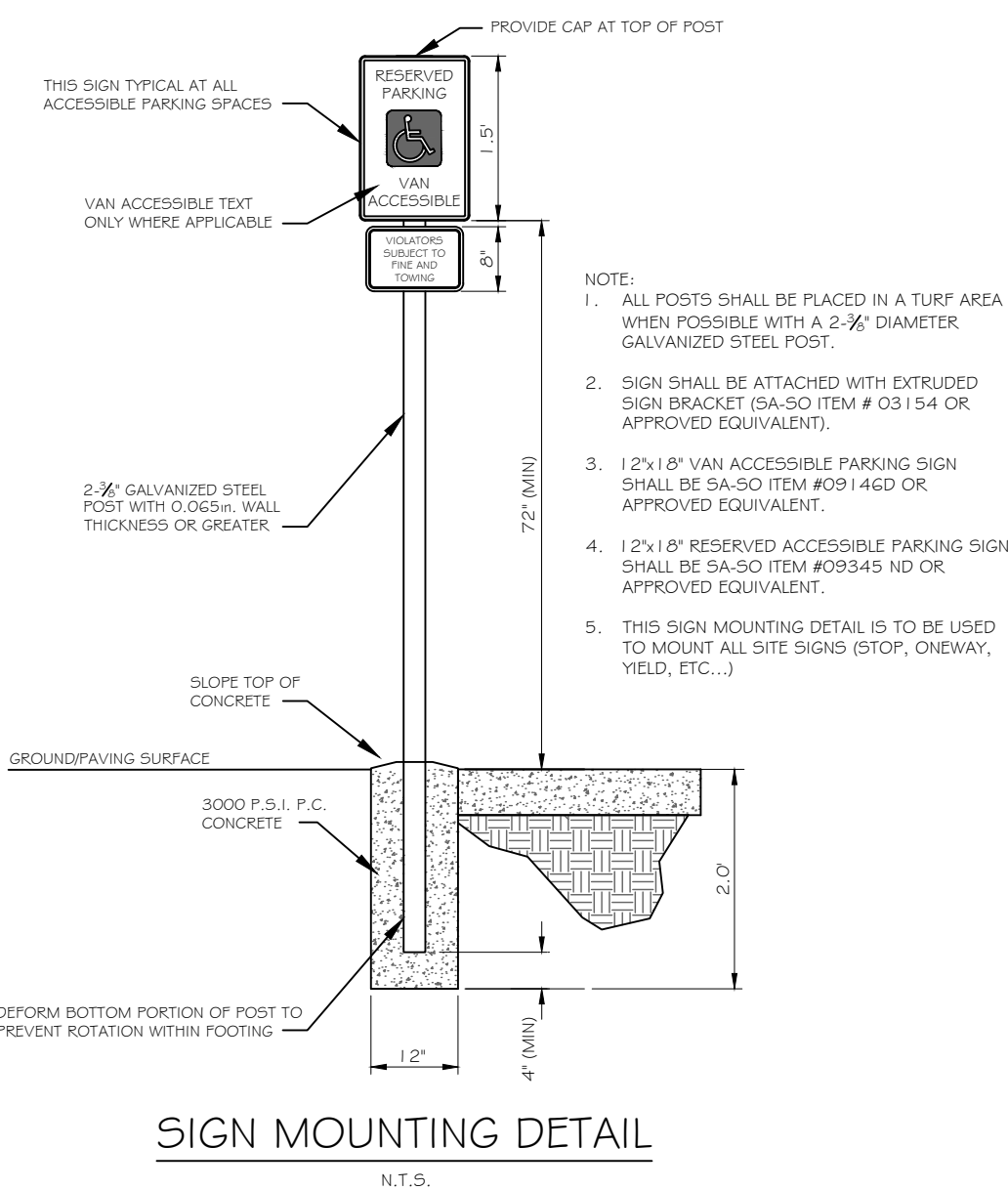
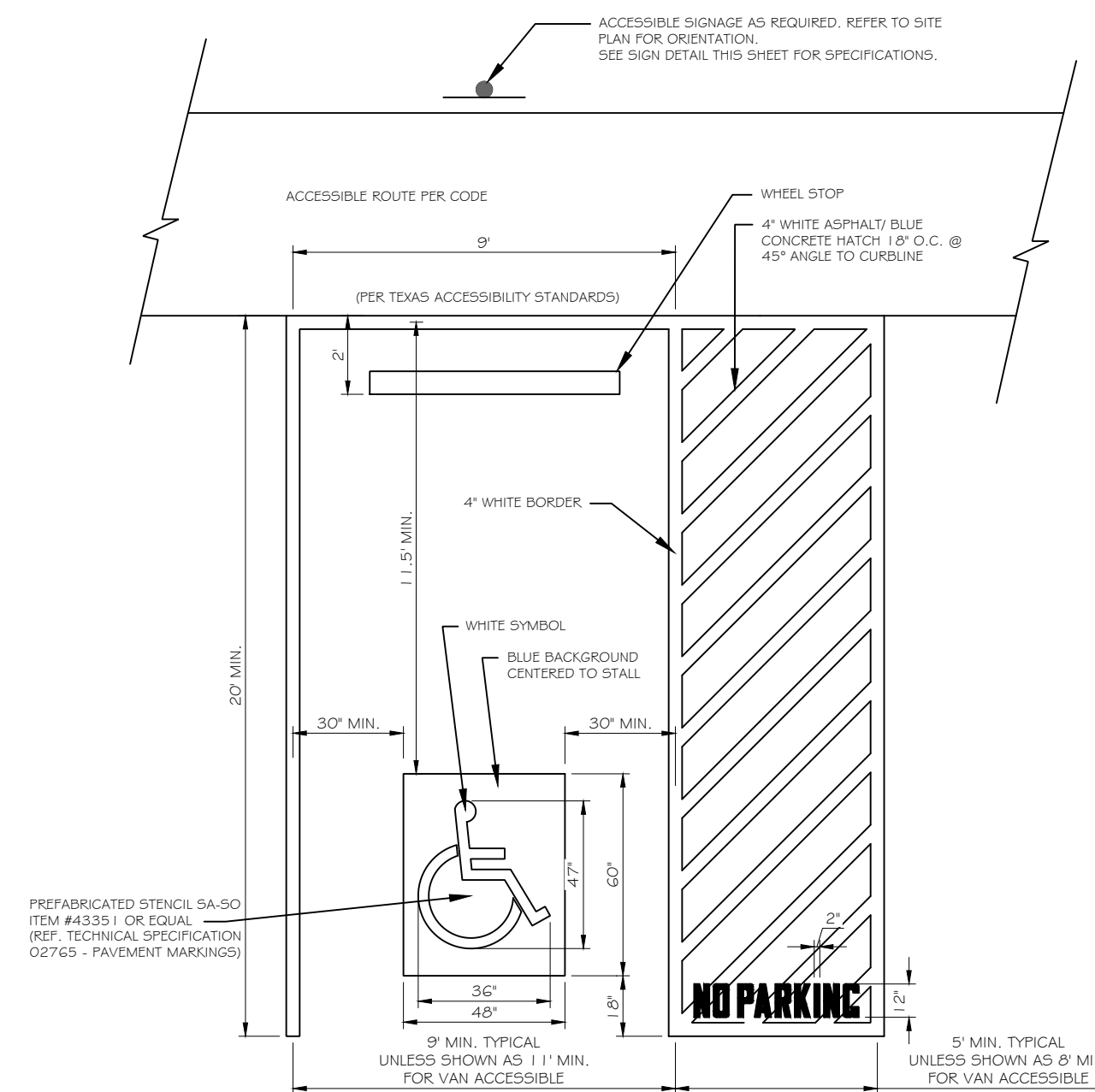
JOB NUMBER: LNK21005

ISSUE DATE: 05/19/2022

PAVING DETAILS

SHEET:

C13.1



525 S. LOOP 288,
SUITE 105
DENTON, TX 76205
(940) 566-5465

INTEGRATED DEFENSE
PRODUCTS™

LOT 6, BLOCK B
ROCKWALL TECHNOLOGY PARK,
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS
(2.508 ACRES) J.M. ALLEN SURVEY A-2

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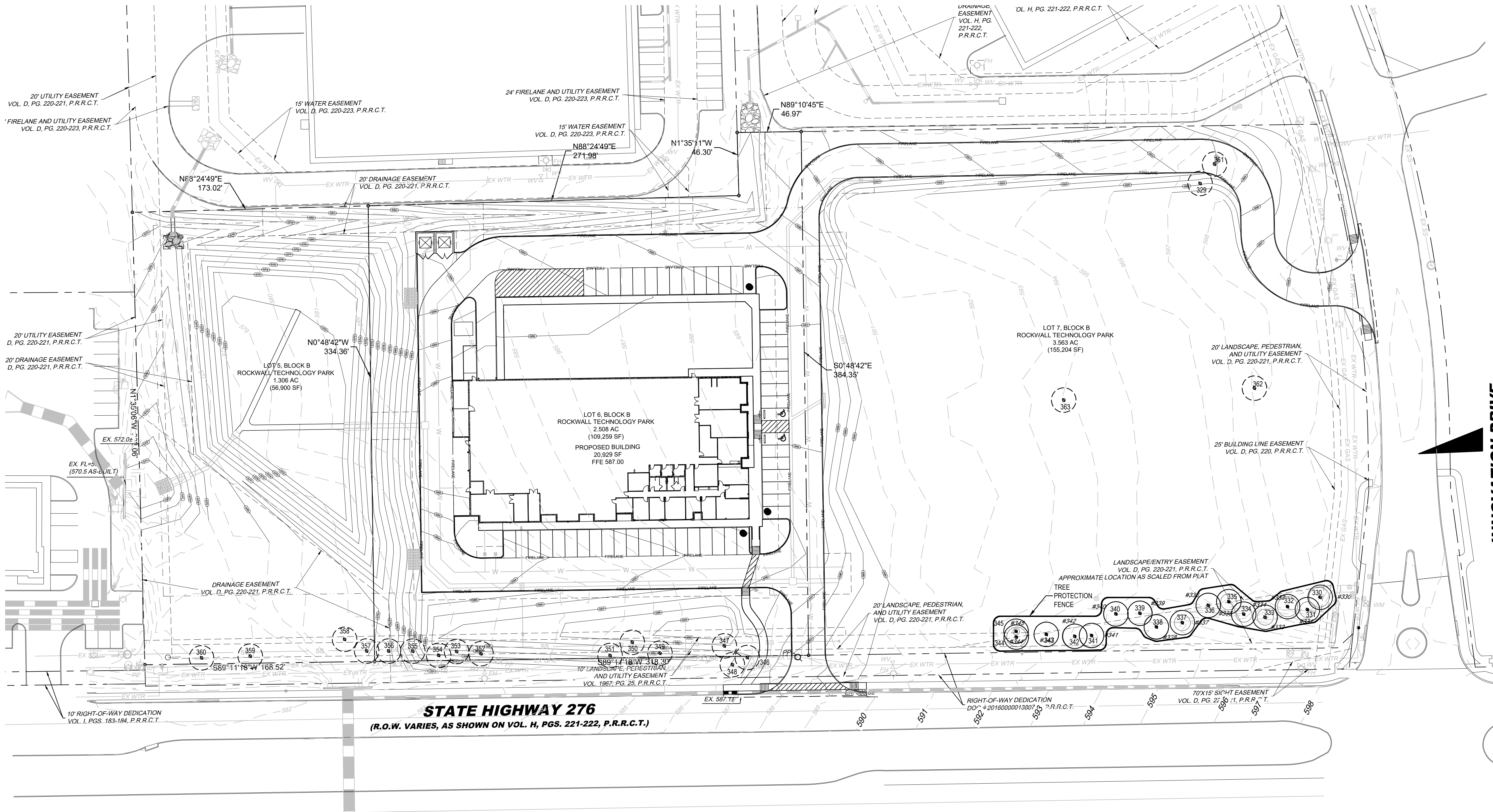
KIRKMAN ENGINEERING, LLO
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
TEXAS FIRM NO. 15874

JOB NUMBER: LNK21005

ISSUE DATE: 05/19/2022

SITE DETAILS

SHEET:
C15.0



- EXISTING TREE LEGEND**
- EXISTING TREE TO REMAIN
 - EXISTING TREE TO BE REMOVED
 - TREE PROTECTION FENCING TO REMAIN DURING CONSTRUCTION REFER TO 01/L.100

- EXISTING TREE NOTES**
- Existing trees to remain shall be protected during construction from tree structure damage and compaction of soil under and around dripline (canopy) of tree.
 - If any root structure is damaged during adjacent excavation/construction, notify the Architect immediately. It is recommended that a licensed Arborist be secured for the treatment of any possible tree wounds.
 - No disturbance of the soil greater than 4" shall be located closer to the tree trunk than 1/2 the distance of the drip line to the tree trunk. A minimum of 75% of the drip line and root zone shall be preserved at natural grade.
 - Any fine grading done within the critical root zones of the protected trees must be done with light machinery such as a bobcat or light tractor. No earth moving equipment with tracks is allowed within the critical root zone of the trees.
 - Material Storage: No materials intended for use in construction or waste materials accumulated due to excavation or demolition shall be placed within the limits of the dripline of any tree.
 - Equipment Cleaning/Liquid Disposal: No equipment may be cleaned, toxic solutions, or other liquid chemicals shall be deposited within the limits of the dripline of a tree. This would include but not be limited to paint, oil, solvents, asphalt, concrete, mortar, primers, etc.
 - Tree Attachments: No signs, wires or other attachments, other than those of a protective nature shall be attached to any tree.
 - Vehicular Traffic: No vehicular and construction equipment traffic or parking is allowed within the limits of the dripline of trees.
 - Boring of Utilities: May be permitted under protected trees in certain circumstances. The minimum length of the bore shall be the width of the tree's canopy and shall be a minimum depth of forty-eight (48") inches.
 - Trenching: Any irrigation trenching which must be done within the critical root zone of a tree shall be dug by hand and enter the area in a radial manner.
 - Tree Flagging: All trees to be removed from the site shall be flagged by the Contractor with bright red vinyl tape (3" width) wrapped around the main trunk at a height of four (4) feet above grade. Flagging shall be approved by Landscape Architect prior to any tree removal. Contractor shall contact Landscape Architect with 72 hour notice to schedule on-site meeting.
 - Protective Fencing: All trees to remain, as noted on drawings, shall have protective fencing located at the tree's dripline. The protective fencing may be comprised of snow fencing, orange vinyl construction fencing, chain link fence or other similar fencing with a four (4) foot approximate height. The protective fencing will be located as indicated on the Tree Protection Detail(s).
 - Bark Protection: In situations where a tree remains in the immediate area of intended construction, the tree shall be protected by enclosing the entire circumference of the tree's trunk with lumber encased with wire or other means that does not damage the tree. Refer to Tree Protection Detail(s).
 - Construction Pruning: In a case where a low hanging limb is broken during the course of construction, the Contractor shall notify the Landscape Architect immediately. In no instance shall the Contractor prune any portion of the damaged tree without the prior approval by the Landscape Architect.

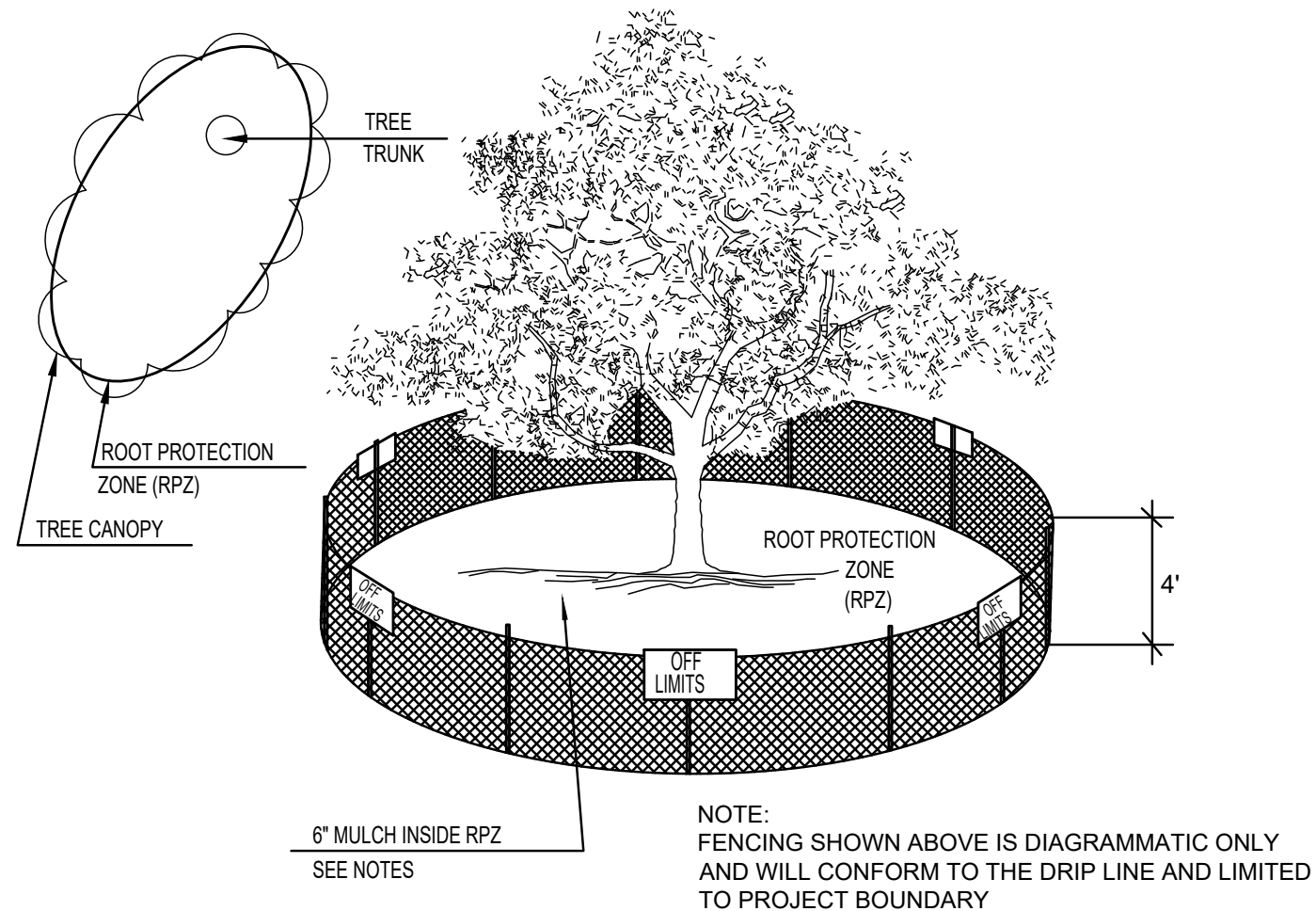
LANDSCAPE ARCHITECT
STUDIO GREEN SPOT, INC.
1784 W. McDERMOTT DR.
SUITE 110
ALLEN, TEXAS 75013
(469) 369-4448
CHRIS@STUDIOGREENSPOT.COM



INTEGRATED DEFENSE PRODUCT TM
LOT 4, BLOCK B
ROCKWALL TECHNOLOGY PARK
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS

NO.	DIA. INCHES	SPECIES (COMMON NAME)	REMARKS	MITIGATION REQUIRED
329	11	CEDAR	TO BE REMOVED	11
330	11	CEDAR	TO REMAIN	
331	15	CEDAR	TO REMAIN	
332	14	CEDAR	TO REMAIN	
333	12	CEDAR	TO REMAIN	
334	13	CEDAR	TO REMAIN	
335	12	CEDAR	TO REMAIN	
336	15	CEDAR	TO REMAIN	
337	12	CEDAR	TO REMAIN	
338	14	CEDAR	TO REMAIN	
339	15	CEDAR	TO REMAIN	
340	15	CEDAR	TO REMAIN	
341	22	CEDAR MULTI-TRUCK	TO REMAIN	
342	15	CEDAR	TO REMAIN	
343	18	CEDAR	TO REMAIN	
344	14	CEDAR	TO REMAIN	
345	5	HERCULES CLUB	TO REMAIN	
346	7	OAK	TO BE REMOVED	7
347	6	OAK	TO BE REMOVED	6
348	7	OAK	TO BE REMOVED	7
349	6	OAK	TO BE REMOVED	6
350	5	OAK	TO BE REMOVED	5
351	5	OAK	TO BE REMOVED	5
352	7	OAK	TO BE REMOVED	7
353	8	OAK	TO BE REMOVED	8
354	5	OAK	TO BE REMOVED	5
355	11	OAK	TO BE REMOVED	11
356	9	OAK	TO BE REMOVED	9
357	10	OAK	TO BE REMOVED	10
358	6	OAK	TO BE REMOVED	6
359	9	OAK	TO BE REMOVED	9
360	7	OAK	TO BE REMOVED	7
361	17	CEDAR MULTI-TRUCK	TO BE REMOVED	17
362	13	CEDAR	TO BE REMOVED	13
363	15	CEDAR MULTI-TRUCK	TO BE REMOVED	15

TOTAL MITIGATION REQUIRED: 166 CAL. INCHES
MITIGATION PROVIDED: 166 CAL. INCHES
TOTAL INCHES OF MITIGATION TREES PLANTED ON SITE: 166 CAL. INCHES



01 TREE PROTECTION FENCE A
NOT TO SCALE

SITE DATA SUMMARY TABLE	
GENERAL SITE DATA	LOT 4
ZONING	LI - LIGHT INDUSTRIAL
LAND USE	OFFICE/WAREHOUSE
LOT AREA	109,258 SF / 2.50 AC
BUILDING FOOTPRINT AREA	20,930 SF
TOTAL BUILDING AREA	3,765 SF OFFICE 17,165 SF WAREHOUSE TOTAL 20,930 SF
BUILDING HEIGHT (# STORIES)	1
BUILDING HEIGHT	29'-8"
LOT COVERAGE	12.59%
FLOOR AREA RATIO	0.13
PARKING	
PARKING RATIO	OFFICE: ONE SPACE PER 300 SF WAREHOUSE: ONE SPACE PER 1000 SF
REQUIRED PARKING (# SPACES)	31
PROVIDED PARKING (# SPACES)	50
ACCESSIBLE PARKING REQUIRED (# SPACES)	2
ACCESSIBLE PARKING PROVIDED (# SPACES)	2



APPROVED:
I hereby certify that the above and foregoing site plan for a development in the City of Rockwall, Texas, was approved by the Planning & Zoning Commission of the City of Rockwall on the day of
WITNESS OUR HANDS, THIS day of
Planning & Zoning Commission, Chairman
Director of Planning and Zoning

OWNER
ROCKWALL TECHNOLOGY PARK
PO BOX 968
ROCKWALL, TX 75087
PH: (972) 772-0025
CONTACT: PHIL WAGNER

LANDSCAPE PLAN
CITY PROJECT CASE NO. SP2022-005
INTEGRATED DEFENSE
PRODUCTS TM
7.38 ACRES
LOT 4 BLOCK B
ROCKWALL TECHNOLOGY PARK,
J.M. ALLEN SURVEY ABSTRACT NO. 2
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS
PREPARATION DATE: 03/01/2022

APPLICANT
LINKS CONSTRUCTION
525 S. LOOP 288, SUITE 105
DENTON, TX 76034
PH: 940-783-0920
CONTACT: ALISON WINGET, PE

LANDSCAPE ARCHITECT
STUDIO GREEN SPOT, INC.
1784 W. McDERMOTT DR. STE. 110
ALLEN, TX 75013
PH: 469-369-4448
CONTACT: CHRIS TRONZANO, RLA

ENGINEER
KIRKMAN ENGINEERING, LLC
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
PH: 817-488-4960
CONTACT: JEREMY NELSON, PE

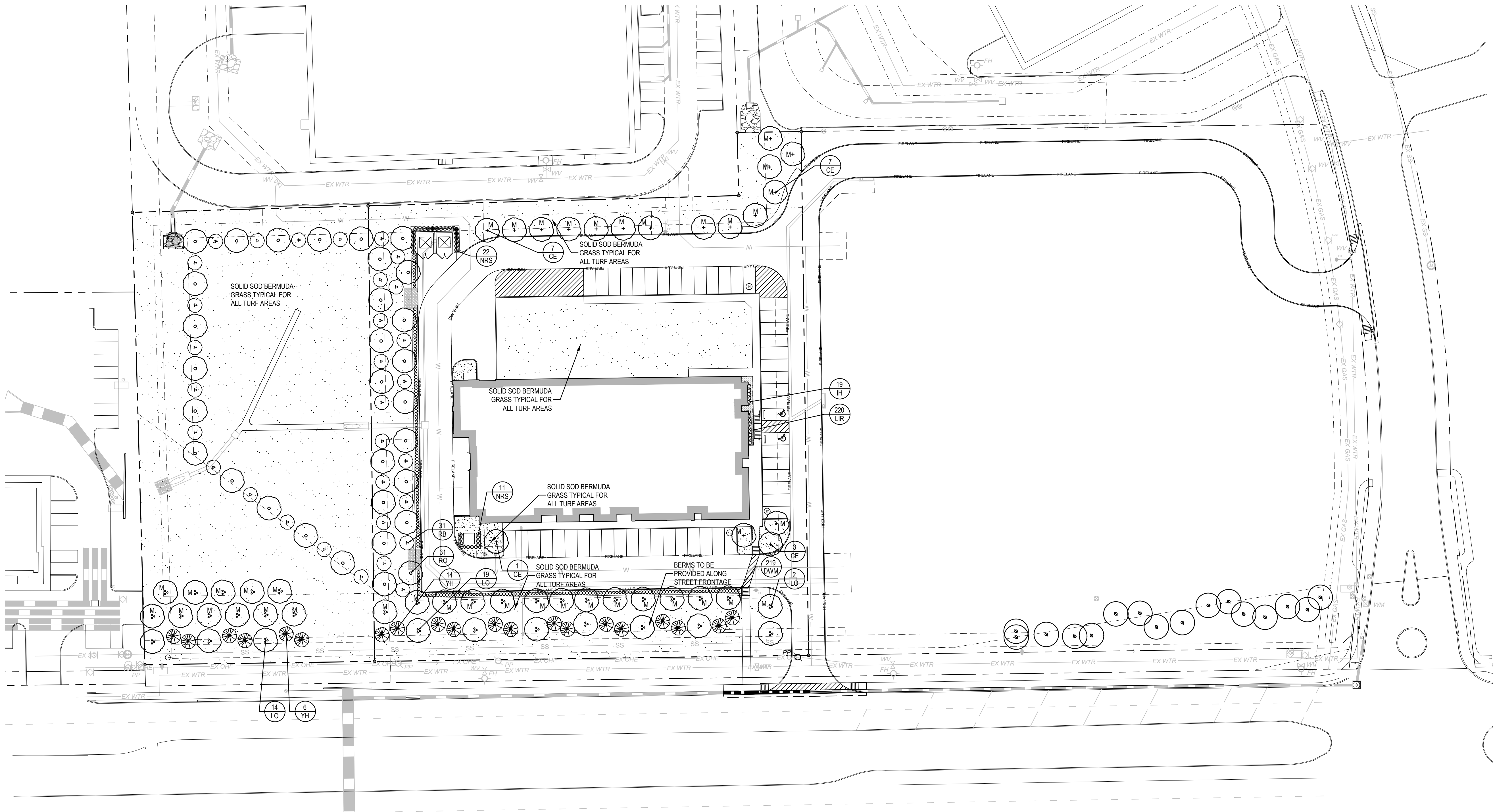
SURVEYOR
BARTON CHAPPA SURVEYING
5200 STATE HIGHWAY 121
COLLEYVILLE, TX 76034
PH: 817-864-1957
CONTACT: JACK BARTON, RPLS

ISSUE:
FOR APPROVAL 02.04.2022
CITY COMMENTS 02.18.2022
CITY COMMENTS 03.03.2022
CITY COMMENTS 03.09.2022
CITY COMMENTS 04.07.2022

DATE:
04.07.2022

SHEET NAME:
TREE PRESERVATION PLAN

SHEET NUMBER:
L.1



- SOLID SOD NOTES**
- FINE GRADE AREAS TO ACHIEVE FINAL CONTOURS INDICATED. LEAVE AREAS TO RECEIVE TOPSOIL 3" BELOW FINAL DESIRED GRADE IN PLANTING AREAS AND 1" BELOW FINAL GRADE IN TURF AREAS.
 - ADJUST CONTOURS TO ACHIEVE POSITIVE DRAINAGE AWAY FROM BUILDINGS. PROVIDE UNIFORM ROUNDING AT TOP AND BOTTOM OF SLOPES AND OTHER BREAKS IN GRADE. CORRECT IRREGULARITIES AND AREAS WHERE WATER MAY STAND.
 - ALL LAWN AREAS TO RECEIVE SOLID SOD SHALL BE LEFT IN A MAXIMUM OF 1" BELOW FINAL FINISH GRADE. CONTRACTOR TO COORDINATE OPERATIONS WITH ON-SITE CONSTRUCTION MANAGER.
 - CONTRACTOR TO COORDINATE WITH ON-SITE CONSTRUCTION MANAGER FOR AVAILABILITY OF EXISTING TOPSOIL.
 - PLANT SOD BY HAND TO COVER INDICATED AREA COMPLETELY. INSURE EDGES OF SOD ARE TOUCHING. TOP DRESS JOINTS BY HAND WITH TOPSOIL TO FILL VOIDS.
 - ROLL GRASS AREAS TO ACHIEVE A SMOOTH, EVEN SURFACE, FREE FROM UNNATURAL UNDULATIONS.
 - WATER SOD THOROUGHLY AS SOD OPERATION PROGRESSES.
 - CONTRACTOR SHALL MAINTAIN ALL LAWN AREAS UNTIL FINAL ACCEPTANCE. THIS SHALL INCLUDE, BUT NOT LIMITED TO: MOWING, WATERING, WEEDING, CULTIVATING, CLEANING AND REPLACING DEAD OR BARE AREAS TO KEEP PLANTS IN A VIGOROUS, HEALTHY CONDITION.
 - CONTRACTOR SHALL GUARANTEE ESTABLISHMENT OF AN ACCEPTABLE TURF AREA AND SHALL PROVIDE REPLACEMENT FROM LOCAL SUPPLY IF NECESSARY.
 - IF INSTALLATION OCCURS BETWEEN SEPTEMBER 1 AND MARCH 1, ALL SOD AREAS TO BE OVER-SEEDED WITH WINTER RYEGRASS, AT A RATE OF (4) POUNDS PER ONE THOUSAND (1000) SQUARE FEET.

- LANDSCAPE NOTES**
- CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED SITE ELEMENTS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES. SURVEY DATA OF EXISTING CONDITIONS WAS SUPPLIED BY OTHERS.
 - CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND NOTIFY ARCHITECT OF ANY CONFLICTS. CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF UNDERGROUND UTILITIES.
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED LANDSCAPE AND IRRIGATION PERMITS.
 - CONTRACTOR TO PROVIDE A MINIMUM 2% SLOPE AWAY FROM ALL STRUCTURES.
 - ALL PLANTING BEDS AND LAWN AREAS TO BE SEPARATED BY STEEL EDGING. NO STEEL TO BE INSTALLED ADJACENT TO SIDEWALKS OR CURBS.
 - ALL LANDSCAPE AREAS TO BE 100% IRRIGATED WITH AN UNDERGROUND AUTOMATIC IRRIGATION SYSTEM AND SHALL INCLUDE RAIN AND FREEZE SENSORS.
 - ALL LAWN AREAS TO BE SOLID SOD BERMUDAGRASS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - DECOMPOSED GRANITE SHALL BE (3) THREE INCHES DEEP W/ FILTER FABRIC BETWEEN NATIVE SOIL AND GRANITE

- GENERAL LAWN NOTES**
- FINE GRADE AREAS TO ACHIEVE FINAL CONTOURS INDICATED ON CIVIL PLANS.
 - ADJUST CONTOURS TO ACHIEVE POSITIVE DRAINAGE AWAY FROM BUILDINGS. PROVIDE UNIFORM ROUNDING AT TOP AND BOTTOM OF SLOPES AND OTHER BREAKS IN GRADE. CORRECT IRREGULARITIES AND AREAS WHERE WATER MAY STAND.
 - ALL LAWN AREAS TO RECEIVE SOLID SOD SHALL BE LEFT IN A MAXIMUM OF 1" BELOW FINAL FINISH GRADE. CONTRACTOR TO COORDINATE OPERATIONS WITH ON-SITE CONSTRUCTION MANAGER.
 - IMPORTED TOPSOIL SHALL BE NATURAL, FRIABLE SOIL FROM THE REGION, KNOWN AS BOTTOM AND SOIL, FREE FROM LUMPS, CLAY, TOXIC SUBSTANCES, ROOTS, DEBRIS, VEGETATION, STONES, CONTAINING NO SALT AND BLACK TO BROWN IN COLOR.
 - ALL LAWN AREAS TO BE FINE GRADED, IRRIGATION TRENCHES COMPLETELY SETTLED, AND FINISH GRADE APPROVED BY THE OWNER'S CONSTRUCTION MANAGER OR ARCHITECT PRIOR TO INSTALLATION.
 - ALL ROCKS 3/4" DIAMETER AND LARGER, DIRT CLODS, STICKS, CONCRETE SPOILS, ETC. SHALL BE REMOVED PRIOR TO PLACING TOPSOIL AND ANY LAWN INSTALLATION
 - CONTRACTOR SHALL PROVIDE (1") ONE INCH OF IMPORTED TOPSOIL ON ALL AREAS TO RECEIVE LAWN.

- IRRIGATION NOTE:**
- ALL IRRIGATION WILL MEET THE REQUIREMENTS OF THE UDC.

LANDSCAPE TABULATIONS:
SITE REQUIREMENTS (site area 166,159 s.f.)
Requirements: 15% site area to be landscaped

Required	Provided
24,924 s.f. (15%)	91,875 s.f. (55%)

FRONT YARD REQUIREMENTS
Requirements: 50% of required landscape must be located in front yard

Required	Provided
12,462 s.f. (50%)	30,208 s.f. (121%)

STREET REQUIREMENTS
Requirements: (2) canopy tree, 4" cal. & (4) accent tree, 4" ht. per 100 l.f. of frontage

STATE HIGHWAY 276 (487 l.f.)

Required	Provided
(10) canopy trees	(10) canopy trees
(20) accent trees	(20) accent trees

PARKING LOT REQUIREMENTS (50 spaces)
Requirements: (1) canopy tree, 4" cal. per 20 parking spaces

Required	Provided
(3) canopy trees	(3) canopy trees

DETENTION AREA REQUIREMENTS (23,448 s.f.)
Requirements: (1) canopy tree, 4" cal. & (1) accent tree, 4" ht. per 750 sf detention area

Required	Provided
(31) canopy trees	(31) canopy trees
(31) accent trees	(31) accent trees

PERVIOUS VS. IMPERVIOUS COVER
PERVIOUS COVER - 46,174 SF
IMPERVIOUS COVER - 63,084 SF

M- TREES COUNTED FOR TREE MITIGATION

PLANT MATERIAL SCHEDULE

TREES					
TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
CE	19	Cedar Elm	Ulmus Crassifolia	4" cal.	container, 12' ht., 5' spread, 6' clear straight trunk
YH	20	Yaupon Holly	Ilex vomitoria	4" ht.	container, 4' ht., 4' spread, 3 or 5 canines, tree form
LO	35	Live Oak	Quercus virginiana	4" cal.	container, 12' ht., 5' spread, 6' clear straight trunk
RB	31	Redbud	Cercis canadensis	4" ht.	container, 4' ht., 4' spread, straight trunk
RO	31	Red Oak	Quercus rubra	4" cal.	container, 12' ht., 5' spread, 6' clear straight trunk
SHRUBS					
TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
DWM	219	Dwarf Wax Myrtle	Myrica pusilla	5 gal.	container, 30" ht., 24" spread
IH	19	Indian Hawthorn	Rhamnolepis indica	5 gal.	container, 20" ht., 20" spread
NRS	33	Nellie R Stevens Holly	Ilex x Nellie R. Stevens	7 gal.	container, 36" ht., 30" spread

GROUNDCOVERS					
TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
LIR	220	Liriope	Liriope muscari	4" pots	container full, well rooted
		"Tiftuf" Bermudagrass	Cynodon transvaalensis x Cynodon dactylon		Solid Sod refer to notes

NOTE: Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. All plant material shall meet or exceed remarks as indicated. All trees are to be measured at Diameter Breast Height (dbh). Trees to have straight trunks and be matching within varieties.

SITE DATA SUMMARY TABLE	
GENERAL SITE DATA	LOT 4
ZONING	U - LIGHT INDUSTRIAL
LAND USE	OFFICE/WAREHOUSE
LOT AREA	109,258 SF/2.50 AC
BUILDING FOOTPRINT AREA	20,930 SF
TOTAL BUILDING AREA	3,765 SF OFFICE
	17,165 SF WAREHOUSE
	TOTAL 20,930 SF
BUILDING HEIGHT (# STORIES)	1
BUILDING HEIGHT	29'-8"
LOT COVERAGE	12.59%
FLOOR AREA RATIO	0.13
PARKING	OFFICE: ONE SPACE PER 300 SF
	WAREHOUSE: ONE SPACE PER 1000 SF
PARKING RATIO	31
REQUIRED PARKING (# SPACES)	50
PROVIDED PARKING (# SPACES)	2
ACCESSIBLE PARKING REQUIRED (# SPACES)	2
ACCESSIBLE PARKING PROVIDED (# SPACES)	2

01 LANDSCAPE PLAN
SCALE 1"=40'-0"

APPROVED:
I hereby certify that the above and foregoing site plan for a development in the City of Rockwall, Texas, was approved by the Planning & Zoning Commission of the City of Rockwall on the _____ day of _____, 2022.

WITNESS OUR HANDS, THIS _____ day of _____, 2022.

Planning & Zoning Commission, Chairman

Director of Planning and Zoning

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CONTACT: PHIL WAGNER

LANDSCAPE PLAN
CITY PROJECT CASE NO. SP2022-005
INTEGRATED DEFENSE
PRODUCTS TM
7.38 ACRES
LOT 4 BLOCK B
ROCKWALL TECHNOLOGY PARK,
J.M. ALLEN SURVEY ABSTRACT NO. 2
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS
PREPARATION DATE: 03/01/2022

APPLICANT
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INTEGRATED DEFENSE PRODUCT TM
LOT 4, BLOCK B
ROCKWALL TECHNOLOGY PARK
CITY OF ROCKWALL,
ROCKWALL COUNTY, TEXAS

ISSUE:
FOR APPROVAL 02.04.2022
CITY COMMENTS 02.18.2022
CITY COMMENTS 03.03.2022
CITY COMMENTS 03.09.2022
CITY COMMENTS 04.07.2022
SITE PLAN CHANGES 04.24.2024

DATE:
04.24.2023

SHEET NAME:
LANDSCAPE PLAN

SHEET NUMBER:

L.2

SECTION 02900 - LANDSCAPE

PART 1 - GENERAL

1.1 REFERENCED DOCUMENTS

Refer to bidding requirements, special provisions, and schedules for additional requirements.

1.2 DESCRIPTION OF WORK

Work included: Furnish all supervision, labor, materials, services, equipment and appliances required to complete the work covered in conjunction with the landscaping covered in these specifications and landscaping plans, including:

- Planting (trees, shrubs, and grass)
- Bed preparation and fertilization
- Notification of sources
- Water and Maintenance until final acceptance
- Guarantee

1.3 REFERENCE STANDARDS

- American Standard for Nursery Stock published by American Association of Nurserymen: 27 October 1980, Edition; by American National Standards Institute, Inc. (Z60.1) – plant material.
- American Joint Committee on Horticultural Nomenclature: 1942 Edition of Standardized Plant Names.
- Texas Association of Nurserymen, Grades and Standards.
- Hortis Thirid: 1976 - Cornell University

1.4 NOTIFICATION OF SOURCES AND SUBMITTALS

- The Contractor shall, within ten (10) days following acceptance of bid, notify the Architect/Owner of the sources of plant materials and bed preparation required for the project.
- Samples: Provide representative quantities of sandy loam soil, mulch, bed mix material, gravel, and crushed stone. Samples shall be approved by Architect before use on project.
- Product Data: Submit complete product data and specifications on all other specified materials.
- Submit three representative samples of each variety of ornamental trees, shrubs, and groundcover plants for Architect's approval. When approved, tag, install, and maintain as representative samples for final installed plant materials.
- File Certificates of inspection of plant material by state, county, and federal authorities with Architect, if required.
- Soil Analysis: Provide sandy loam soil analysis if requested by the Architect.

PART 3 - EXECUTION

3.1 BED PREPARATION & FERTILIZATION

- Landscape Contractor to inspect all existing conditions and report any deficiencies to the Owner.
- All planting areas shall be conditioned as follows:
 - Prepare new planting beds by scraping away existing grass and weeds as necessary. Till existing soil to a depth of six (6") inches prior to placing compost and fertilizer. Apply fertilizer as per manufacturers' recommendations. Add six (6") inches of compost and till into a depth of six (6") inches of the topsoil. Apply organic fertilizer such as Sustane or Green Sense at the rate of twenty (20) pounds per one thousand (1,000) square feet.
 - All planting areas shall receive a two (2") inch layer of specified mulch.
 - Backfill for tree pits shall be as follows: Use existing top soil on site (use imported topsoil as needed) free from large clumps, rocks, debris, caliche, subsoils, etc., placed in nine (9") inch layers and watered in thoroughly.
- Grass Areas:
 - Areas to be Solid Sod Bermudagrass: Blocks of sod should be laid joint to joint, (staggered joints) after fertilizing the ground first. Roll grass areas to achieve a smooth, even surface. The joints between the blocks of sod should be filled with topsoil where they are evidently gaped open, then watered thoroughly.
 - Areas to be Hydromulch Common Bermudagrass: Hydromulch with bermudagrass seed at a rate of two (2) pounds per one thousand (1,000) square feet. Use a 4' x 8' batter board against the bed areas.

3.2 INSTALLATION

- Maintenance of plant materials shall begin immediately after each plant is delivered to the site and shall continue until all construction has been satisfactorily accomplished.
- Plant materials shall be delivered to the site only after the beds are prepared and area ready for planting. All shipments of nursery materials shall be thoroughly protected from the drying winds during transit. All plants which cannot be planted at once, after delivery to the site, shall be well protected against the possibility of drying by wind and sun. Balls of earth of B & B plants shall be kept covered with soil or other acceptable material. All plants remain the property of the Contractor until final acceptance.
- Position the trees and shrubs in their intended location as per plan.
- Notify the Landscape Architect for inspection and approval of all positioning of plant materials.
- Excavate pits with vertical sides and horizontal bottom. Tree pits shall be large enough to permit handling and planting without injury to balls of earth or roots and shall be of such depth that, when planted and settled, the crown of the plant shall bear the same relationship to the finish grade as it did to soil surface in original place of growth.

JOB CONDITIONS

- General Contractor to complete the following punch list: Prior to Landscape Contractor initiating any portion of landscape installation. General Contractor shall leave planting bed areas three (3") inches below finish grade of sidewalks, drives and curbs as shown on the drawings. All lawn areas to receive solid sod shall be left one (1") inch below the finish grade of sidewalks, drives, and curbs. All construction debris shall be removed prior to Landscape Contractor beginning any work.
- General Contractor shall provide topsoil as described in Section 02200 - Earthwork.
- Storage of materials and equipment at the job site will be at the risk of the Landscape Contractor. The Owner cannot be held responsible for theft or damage.

1.6 MAINTENANCE AND GUARANTEE

- Maintenance:
 - The Landscape Contractor will be held responsible for the maintenance of all work from the time of planting until final acceptance by the Owner. No trees, shrubs, groundcover or grass will be accepted unless they show a healthy growth and satisfactory foliage conditions.
 - Maintenance shall include watering of trees and plants, cultivation, weeding spraying, edging, pruning of trees, mowing of grass, cleaning up and all other work necessary of maintenance.
 - A written notice requesting final inspection and acceptance should be submitted to the Owner at least seven (7) days prior to completion. An on-site inspection by Owner and Landscape Contractor will be completed prior to written acceptance.
 - After final acceptance of installation, the Landscape Contractor will not be required to do any of the above listed work.
- Guarantee:
 - Trees shall be guaranteed for a twelve (12) month period after acceptance. Shrubs and groundcover shall be guaranteed for twelve (12) months. The Contractor shall replace all dead materials as soon as weather permits and upon notification of the Owner. Plants, including trees, which have partially died so that shape, size, or symmetry has been damaged, shall be considered subject to replacement. In such cases, the opinion of the Owner shall be final.
 - Plants used for replacement shall be of the same size and kind as those originally planted and shall be planted as originally specified. All work, including materials, labor and equipment used in replacements, shall carry a twelve (12) month guarantee. Any damage, including ruts in lawn or bed areas, incurred as a result of making replacements shall be immediately repaired.
 - At the direction of the Owner, plants may be replaced at the start of the next year's planting season. In such cases, dead plants shall be removed from the premises immediately.
 - When plant replacements are made, plants, soil mix, fertilizer and mulch are to be utilized as originally specified and re-inspected for full compliance with Contract requirements. All replacements are to be included under "Work" of this section.

1.7 QUALITY ASSURANCE

- General: Comply with applicable Federal, State, County and Local regulations governing landscape materials and work.
- Personnel: Employ only experienced personnel who are familiar with the required work. Provide full time supervision by a qualified foreman acceptable to Landscape Architect.
- Selection of Plant Material:
 - Make contact with suppliers immediately upon obtaining notice of contract acceptance to select and book materials. Develop a program of maintenance (pruning and fertilization) which will insure the purchased materials will meet and/or exceed project specifications.
 - Landscape Architect will provide a key identifying each tree location on site. Written verification will be required to document material selection, source and delivery schedules to site.
 - Owner and/or Architect shall inspect all plant materials when reasonable at place of growth for compliance with requirements for genus, species, cultivar/variety, size and quality.
 - Owner and/or Architect retains the right to further inspect all plant material upon arrival at the site and during installation for size and condition of root balls, limbs, branching habit, insects, injuries, and latent defects.
 - Owner and/or Architect may reject unsatisfactory or defective material at any time during the process of work. Remove rejected materials from the site immediately. Plants damaged in transit or at job site shall be rejected.

1.8 PRODUCT DELIVERY, STORAGE AND HANDLING

- Preparation:
 - Balled and Burlapped (B&B) Plants: Dig and prepare shipment in a manner that will not damage roots, branches, shape, and future development.
 - Container Grown Plants: Deliver plants in rigid container to hold ball shape and protect root mass.

A. Delivery:

- Deliver packaged materials in sealed containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery and while stored at site.
- Deliver only plant materials that can be planted in one day unless adequate storage and watering facilities are available on job site.
- Protect root balls by heeling in with sawdust or other approved moisture retaining material if not planted within 24 hours of delivery.
- Protect plants during delivery to prevent damage to root balls or desiccation of leaves. Keep plants moist at all times. Cover all materials during transport.
- Notify Architect of delivery schedule 72 hours in advance so plant material may be observed upon arrival at job site.
- Remove rejected plant material immediately from site.
- To avoid damage or stress, do not lift, move, adjust to plumb, or otherwise manipulate plants by trunk or stems.

PART 2 - PRODUCTS

2.1 PLANTS

- General: Well-formed No. 1 grade or better nursery grown stock. Listed plant heights are from tops of root balls to nominal tops of plants. Plant spread refers to nominal outer width of the plant, not to the outer leaf tips. Plants will be individually approved by the Architect and his decision as to their acceptability shall be final.
- Quantities: The drawings and specifications are complimentary. Anything called for on one and not the other is as binding as if shown and called for on both. The plant schedule is an aid to bidders only. Confirm all quantities on plan.
- Quality and size: Plant materials shall conform to the size given on the plan, and shall be healthy, symmetrical, well-shaped, full branched, and well rooted. The plants shall be free from injurious insects, diseases, injuries to the bark or roots, broken branches, objectionable disfigurements, insect eggs and larvae and are to be of specimen quality.
- Approval: All plant materials shall be subject to the approval of the Owner. All plants which are found unsuitable in growth, or in any unhealthy, badly shaped, or undersized condition, will be rejected by the Landscape Architect, either before or after planting, and shall be removed at the expense of the Landscape Contractor and replaced with acceptable plants as specified.
- Trees shall be healthy, full-branched, well-shaped and shall meet the trunk diameter and height requirements of the plant schedule. Balls shall be firm, neat, slightly tapered, and well wrapped in burlap. Any tree loose in the ball or with broken ball at time of planting will be rejected. Balls shall be ten (10") inches in diameter for each one (1") inch of trunk diameter. Measured six (6") inches above ball.
Nomenclature conforms to the customary nursery usage. For clarification, the term "multi-trunk" defines a plant having three (3) or more trunks of nearly equal diameter.
- Pruning: All pruning of trees and shrubs, as directed by the Landscape Architect, shall be executed by the Landscape Contractor at no additional cost to the Owner.

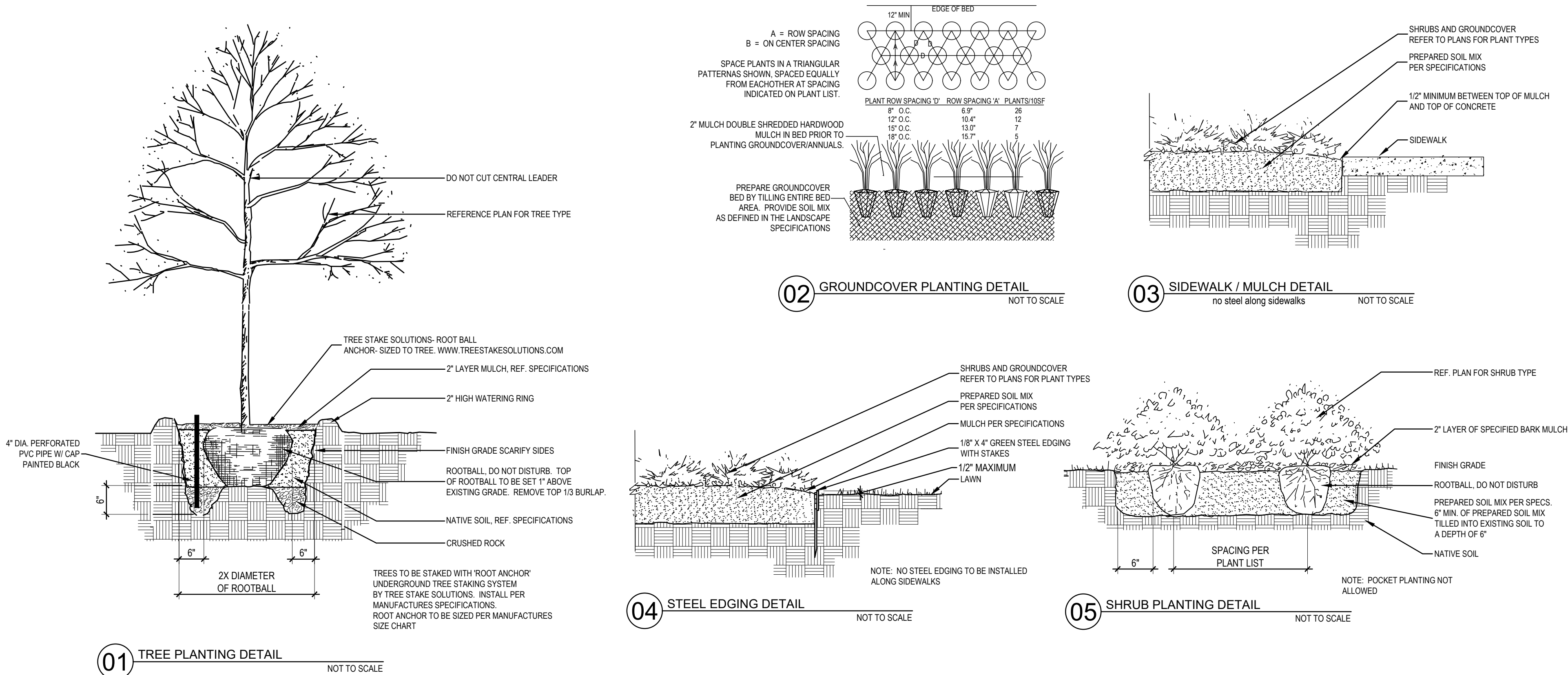
2.2 SOIL PREPARATION MATERIALS

- Sandy Loam:
 - Friable, fertile, dark, loamy soil, free of clay lumps, subsoil, stones and other extraneous material and reasonably free of weeds and foreign grasses. Loam containing Dallasgrass or Nutgrass shall be rejected.
 - Physical properties as follows:
 - Clay – between 7-27 percent
 - Silt – between 15-25 percent
 - Sand – less than 52 percent
 - Organic matter shall be 3%-10% of total dry weight.
 - If requested, provide a certified soil analysis conducted by an approved soil testing laboratory verifying that sandy loam meets the above requirements.
- Organic Material: Compost with a mixture of 80% vegetative matter and 20% animal waste. Ingredients should be a mix of coarse and fine textured material.
- Premixed Bedding Soil as supplied by Vital Earth Resources, Gladewater, Texas; Professional Bedding Soil as supplied by Living Earth Technology, Dallas, Texas or Acid Gro Municipal Mix as supplied by Soil Building Systems, Dallas, Texas or approved equal.
- Sharp Sand: Sharp sand must be free of seeds, soil particles and weeds.
- Mulch: Double Shredded Hardwood Mulch, partially decomposed, dark brown. Living Earth Technologies or approved equal.
- Organic Fertilizer: FertiLaid, Sustane, or Green Sense or equal as recommended for required applications. Fertilizer shall be delivered to the site in original unopened containers, each bearing the manufacturer's guaranteed statement of analysis.

- Commercial Fertilizer: 10-20-10 or similar analysis. Nitrogen source to be a minimum 50% slow release organic Nitrogen (SCU or UF) with a minimum 8% sulphur and 4% iron, plus micronutrients.
- Peat: Commercial sphagnum peat moss or partially decomposed shredded pine bark or other approved organic material.

2.3 MISCELLANEOUS MATERIALS

- Steel Edging: Shall be Ryerson "Estate Curbing", 1/8" x 4" with stakes 4' on center.
- Staking Material for Shade Trees:
 - Post: Slotted T-Post, #1 Armo-co with anchor plate, 6'-0" length; paint green.
 - Wire: 12 gauge, single strand, galvanized wire.
 - Rubber hose: 2 ply, fiber reinforced hose, minimum 1/4 inch inside diameter. Color: Black.
- Gravel: Washed native pea gravel, graded 1 in. to 1-1/2 in.
- Filter Fabric: Miraf 140N by Celanese Fibers Marketing Company, available at Loftland Co., (214) 631-5250 or approved equal.



3.3 CLEANUP AND ACCEPTANCE

- Cleanup: During the work, the premises shall be kept neat and orderly at all times. Storage areas for all materials shall be so organized that they, too, are neat and orderly. All trash and debris shall be removed from the site as work progresses. Keep paved areas clean by sweeping or hosing at end of each day's work.

END OF SECTION

APPROVED:
I hereby certify that the above and foregoing site plan for a development in the City of Rockwall, Texas, was approved by the Planning & Zoning Commission of the City of Rockwall on the _____ day of _____.

WITNESS OUR HANDS, THIS _____ day of _____.

Planning & Zoning Commission, Chairman
Director of Planning and Zoning

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LANDSCAPE PLAN
CITY PROJECT CASE NO. SP2022-005
INTEGRATED DEFENSE
PRODUCTS TM
7.38 ACRES
LOT 4 BLOCK B
ROCKWALL TECHNOLOGY PARK,
J.M. ALLEN SURVEY ABSTRACT NO. 2
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS
PREPARATION DATE: 03/01/2022

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ISSUE:
FOR APPROVAL 02.04.2022
CITY COMMENTS 03.03.2022
CITY COMMENTS 03.09.2022

DATE:
03.09.2022

SHEET NAME:
LANDSCAPE SPECIFICATIONS

SHEET NUMBER:

L.3

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