CONSTRUCTION PLANS FOR HOWARD DOBBS PARKING PAVING AND PARKING RENOVATIONS 101 SOUTH CLARK ROAD CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS 75087 TABLE OF CONTENTS LOT REVOVATION SHEET # TITLE C01.00 COVER SHEET C01.01 **TOPOGRAPHIC SURVEY** LS.D. TEXAS C02.00 DEMOLITION PLAN C03.00 SITE PLAN C04.00 **GRADING PLAN** ROCKWAI C04.01 SWPPP PLAN DOBBS PARKING L C04.02 SWPPP DETAILS dependent 📽 C04.03 SWPPP DETAILS C04.04 DRAINAGE AREA MAP C04.05 Wilkerson-Sar DRAINAGE CALCULATION C06.00 PAVING PLAN C06.0 **AVING DETAILS** Squabble Creek T C06.02 PAVING DETAILS 2 C06.04 AVING DETAILS SITE tarry Myers Park Harry Myers Disc Go n Utility ommercial 🛸 Location Map document was authorized by Mike Glenn, P.E. 35059, on June 4, 2018 RECORD DRAWING THIS IS TO CERTIFY THAT CHANGES AND CORRECTIONS HAVE BEEN MADE TO CONFORM TO THE CONTRACTOR'S RECOR OF THIS PROJECT (Incalim () **OWNER** ARCHITECT ENGINEER Huckabee www.huckabee-inc.com DATE: 08/09/2018 800.687.1229 **ROCKWALL I.S.D.** HUCKABEE **GLENN ENGINEERING Glenn Engineering Corporation 801 CHERRY STREET, SUITE 500 1050 WILLIAMS STREET 105 DECKER COURT, SUITE 910** FORT WORTH, TEXAS 76109 **ROCKWALL, TEXAS 75087 IRVING, TEXAS 75062** COVER SHEET 972-771-0605 (817) 377-2969 (972) 717-5151

GENERAL NOTE:

CONTRACTOR TO UTILIZE CITY APPROVED CONSTRUCTION PLANS FOR CONSTRUCTION OF ALL CIVIL RELATED FACILITIES. CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY COST DISCREPANCIES BETWEEN THE CITY APPROVED SET AND BID SET WITH LATEST ADDENDUMS.



April 2018



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[GENERAL NOTES:	
	1. ALL WORK SHALL BE IN ACCORDANCE WITH THESE PLANS AND CITY OF ROCKWALL	
	2. ALL PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND	
	3. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY	
	OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF ANY CONSTRUCTION. IN THE EVENT OF ANY CONFLICT AND PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, IMMEDIATELY NOTIFY ENGINEER.	
	MINOR ADJUSTMENTS OF FINISHED GRADE TO ACCOMPLISH SPOT DRAINAGE ARE ACCEPTABLE.	
	4. POSITIVE DRAINAGE SHALL BE PROVIDED AWAY FROM ALL FOUNDATIONS AND STRUCTURES.	
	5. ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT OR GUTTER. TO OBTAIN TOP OF CURB ELEVATION, ADD 0.5 FEET.	Σ
	6. GROUND SHALL BE SCARIFIED PRIOR TO PLACING ANY FILL.	₩ ₩ □
	7. FILL SHALL BE COMPACTED TO 95% WITH A SHEEPS FOOT ROLLER	DEND
		AD
	9.11 IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND/OR ESTABLISH A BENCHMARK PRIOR TO CONSTRUCTION AND MAINTAIN THE BENCHMARK DURING CONSTRUCTION.	te 2018
	10. THE LOCATIONS OF ALL UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE PUBLIC RECORDS. THE EXACT LOCATION AND DEPTH OF ALL UTILITIES	Da 4/19/2
	INDICATED MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT	0
	11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING	vision
	CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.	- Ke
	12. NO WEEP HOLES SHALL BE COVERED.13. THIS SITE IS ASSUMED TO BE A BALANCED SITE BY ADJUSTING THE THE BENCHMARK	
	ELEVATION . THE CONTRACTOR SHALL INFORM THE ENGINEERING OF THE ADJUSTMENT TO THE BENCHMARK TO ACHIEVE THE BALANCED SITE.	
	14. 75-80% OF ALL DISTURBED AREA TO HAVE A MINIMUM 1" STAND OF GRASS PRIOR TO CITY ACCEPTANCE	
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SITE DESCRIPTION

PROJECT NAME & LOCATION:	DOBBS ELEMENTARY SCHOOL 101 SOUTH CLARK STREET ROCKWALL, TEXAS 75087 ROCKWALL INDEPENDENT SCHOOL DISTRICT	STABILIZATION DISTURBED AF (TEMPORARIL) DAYS UNLESS	N PRACTICES REAS ON WHICH C Y OR PERMANENT S ACTIVITIES ARE S	CONSTRUCTION ACTIVITY HAS CEASED (LY) SHALL BE STABILIZED WITHIN 14 SCHEDULED TO RESUME WITHIN 21 DAYS.
	801 EAST WASHINGTON ROCKWALL, TEXAS		PERMANENT X	SEED OR SOD
PROJECT DESCRIPTION: SEQUENCE OF MAJOR ACTIVITIES:	DOBBS PARKING RENOVATIONS PLACEMENT OF EROSION CONTROL DEVICES DENUDE SITE INSTALLATION OF UTILITY LINES START FOUNDATION OF BUILDINGS PLACEMENT OF CONCRETE PAVEMENT COMPLETE BUILDINGS PLACEMENT OF LANDSCAPE AND GRASS REMOVAL OF EROSION CONTROL DEVICES		X X X DNAL COMMENTS:	VEGETATION OTHER THAN SEED OR SOD EROSION CONTROL MATS PRESERVATION OF NATURAL VEGETATION OTHER (DESCRIBE)
MAJOR SOIL DISTURBING ACTIVITIES:	DENUDE SITE INSTALLATION OF UTILITY LINES PLACEMENT OF LANDSCAPE AND GRASS	<u>STRUCTURAL</u> TEMPORARY _ <u>X</u> _	PRACTICES PERMANENT	SILT FENCE
PRE-DEVELOPMENT RUNOFF COEFFICIENT:	0.70	<u> X </u>		ROCK BERMS
FINAL RUNOFF COEFFICIENT AFTER CONSTR	RUCTION: 0.70			DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
TOTAL PROJECT AREA: 25.00 +/- /	ACRES			PIPE SLOPE DRAIN
TOTAL AREA TO BE DISTURBED: 0.41	ACRES	X		INLET PROTECTION
DESCRIPTION OF EXISTING SOIL: CL	AY SOILS			STONE OUTLET SEDIMENT TRAP
DESCRIPTION OF STABILIZATION OF EXISTIN	IG DRAINAGE WAYS:		OR LARGEF	R WHERE ATTAINABLE)
				CHECK DAM TEMPORARY SEDIMENT TANK
DETENTION BASIN / SEDIMENT BASIN		X		STABILIZED CONSTRUCTION ENTRY
DESCRIPTION OF EXISTING QUALITY OF STOP CITY STREETS EXISTING STREAM	RM WATER DISCHARGE FOR SITE (IF AVAILABLE):			SANDBAG BERM OTHER (DESCRIBE):
NAME OF RECEIVING WATERS: CITY CURB AND GUTTER CURB AND GUTTER ALONG ROADWAYS ENCLOSED STORM SEWERS		ADDITIC	ONAL COMMENTS:	
LITTLE BUFFALO CREEK		OTHER ADDITI	IONAL STORM WA	TER MANAGEMENT FEATURES
ADDITIONAL COMMENTS: ESTIMATED PROJECT START DATE:	APRIL 2018		PERMANENT X X X X	CURB & GUTTER STORM SEWER INLETS STORM SEWER
ESTIMATED PROJECT END DATE:	AUGUST 2018		X	CULVERTS STORM WATER DETENTION POND
LATITUDE:	32°56'50" N			OTHER (DESCRIBE):
LONGITUDE	96°23'33" W			
NAME OF RECEIVING WATER BUFFA	ALO CREEK	ADDITIC	ONAL COMMENTS:	
SEQUENCE AND TIMING OF INDIC/ PRACTICES AND/OF	ATED EROSION CONTROL	E	ROSION A	AND SEDIMENT CONTROLS
(INCLUDE TREATMENT OF STOCKPI	LED DIRT FOR FUTURE USE)	<u>MAINT</u> 1 T⊢	ENANCE/INSPECT	ION PROCEDURES SHALL PROVIDE AND MAINTAIN A RAIN GAUGE
PRIOR TO STARTING CONSTRUCTION: PLACEMENT OF SIL	TEENCES	UT	TILIZING MIN. 0.1 IN	NCH INCREMENTS AT THE PROJECT SITE.
INSTALLATION OF INLET PROTECT	TION FOR STREET INLETS	2. CC OF	NTROL MEASURE R WITHIN 24 HOUR	S WILL BE INSPECTED AT LEAST ONCE A WEEK S OF ANY STORM EVENT OF 0.5 INCH OR
DURING CONSTRUCTION: INSPECTION AND MAINTENAM	NCE OF SILT FENCES	EA		ABLE DATE.
INSTALLATION OF INLET PROTECT COMPLETION OF SITE: INSTALLATION OF LANDSO REMOVAL OF EROSION CO	TION FOR ON-SITE PAVING CAPE AND GRASS ONTROL DEVICES	3. IN AT RA BE <u>TH</u> IN AF 4. TH AC	SPECTION WILL BE T LEAST ONCE A W AIN OR GREATER. MADE FOR EACH HE INSPECTION SH THE NCTCOG CON PROVED BY THE HE CONTRACTOR S CTIVITY ON THE SI THER (DESCRIBE)	E PERFORMED BY THE OWNERS REPRESENTATIVE (EEK AS WELL AS AFTER EVERY 0.5 INCH OF AN INSPECTION AND MAINTENANCE REPORT WILL INSPECTION AND KEPT AT THE PROJECT SITE. IOULD USE THE OPERATOR INSPECTION FORM INSTRUCTION BMP MANUAL OR OTHER FORM CITY. SHALL KEEP RECORDS OF THE CONSTRUCTION TE.
SITE RATING FACTOR UTILIZING EROSION CONTROL & ME (MUST BE 0.70 OR LARGE	INDICATED ASURES = 0.70 R)			

EROSION AND SEDIMENT CONTROLS

NSTRUCTION ACTIVITY HAS CEASED) SHALL BE STABILIZED WITHIN 14 HEDULED TO RESUME WITHIN 21 DAYS.

- SEED OR SOD EGETATION OTHER THAN SEED OR SOD EROSION CONTROL MATS PRESERVATION OF NATURAL VEGETATION
- OTHER (DESCRIBE)
- OTHER BEST MANAGEMENT (HOUSEKEEPING) PRACTICES THE FOLLOWING INDICATED PRACTICES SHALL BE FOLLOWED:
- LIME STABILIZATION
- $\frac{X}{2}$ ATTACHED BMP S-11 FROM NCTCOG CONSTRUCTION BMP MANUAL - OTHER (DESCRIBE):

SOLID WASTE MANAGEMENT

- $\frac{X}{2}$ ATTACHED BMP W-2 FROM NCTCOG CONSTRUCTION BMP MANUAL - OTHER (DESCRIBE):
- HAZARDOUS WASTE MANAGEMENT
- $\frac{X}{2}$ ATTACHED BMP W-2 FROM NCTCOG CONSTRUCTION BMP MANUAL — STORAGE AREAS (DESCRIBE):
- OTHER (DESCRIBE):

CONCRETE WASTE MANAGEMENT

- $\frac{X}{2}$ ATTACHED BMP W-3 FROM NCTCOG CONSTRUCTION BMP MANUAL - OTHER (DESCRIBE):
- SANDBLASTING WASTE MANAGEMENT
- $\stackrel{\text{X}}{=}$ ATTACHED BMP W-4 FROM NCTCOG CONSTRUCTION BMP
- MANUAL — OTHER (DESCRIBE):

DUST REDUCTION MEASURES

- A DISTURBED AREAS DAMPENED PERIODICALLY FOR DUST CONTROL
- EXCESS DIRT ON ADJACENT ROADS REMOVED DAILY — OTHER (DESCRIBE):

R MANAGEMENT FEATURES

- CURB & GUTTER
- STORM SEWER INLETS
- STORM SEWER
- CULVERTS
- STORM WATER DETENTION POND
- VELOCITY DISSIPATION DEVICES
- OTHER (DESCRIBE):

ND SEDIMENT CONTROLS

N PROCEDURES

- IALL PROVIDE AND MAINTAIN A RAIN GAUGE H INCREMENTS AT THE PROJECT SITE. WILL BE INSPECTED AT LEAST ONCE A WEEK OF ANY STORM EVENT OF 0.5 INCH OR
- R IS NECESSARY IT WILL BE DONE AT THE LE DATE.
- PERFORMED BY THE OWNERS REPRESENTATIVE EK AS WELL AS AFTER EVERY 0.5 INCH OF I INSPECTION AND MAINTENANCE REPORT WILL ISPECTION AND KEPT AT THE PROJECT SITE. JLD USE THE OPERATOR INSPECTION FORM TRUCTION BMP MANUAL OR OTHER FORM

Copyright © 2018, Huckabee & Associates, Inc. SIGNATORY REQUIREMENTS THE CITY HAS ADOPTED THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) CONSTRUCTION BMP MANUAL. THESE OUTLINES WERE DEVELOPED AS AN AID FOR THOSE PREPARING STORM WATER POLLUTION PREVENTION PLANS (SW3P'S) FOR VARIOUS CONSTRUCTION ACTIVITIES IN THE CITY. THEIR USE DOES NOT RELIEVE THE DESIGN ENGINEER OR OPERATOR(S) FROM COMPLYING WITH THE NCTCOG BMP MANUAL OR THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES. THE SW3P SHALL BE SEALED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED BY THE OWNER THAT THE INFORMATION IS TRUE AND THAT THEY ASSUME RESPONSIBILITY FOR THE PLAN. ADDITIONALLY, THEY SHALL CERTIFY THAT THE PLAN MEETS STATE AND LOCAL REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL AND STORM WATER QUALITY. IN ALL CASES, A DULY AUTHORIZED REPRESENTATIVE AS INDICATED IN THE GENERAL PERMIT MAY CERTIFY THIS PLAN. PRIOR TO THE COMMENCEMENT OF WORK, THE OWNER AND GENERAL CONTRACTOR MUST SUBMIT NOTICES OF INTENT (NOI) AS CO-PERMITTEES TO DISCHARGE STORM WATER FROM A CONSTRUCTION SITE UNDER THE NPDES PERMIT. ADDITIONALLY, ALL CONTRACTORS AND SUBCONTRACTORS (INCLUDING FRANCHISE UTILITIES) WHOSE ACTIVITIES IMPACT THE SW3P MUST SIGN AN APPROVED CERTIFICATION THAT THEY UNDERSTAND THEIR RESPONSIBILITIES UNDER THE PLAN. NO WORK WILL BE ALLOWED UNTIL COPIES OF ALL APPROPRIATE NOI'S AND CERTIFICATIONS ARE RECEIVED BY THE CITY. **T** REVOVATION S D EXA $- \vdash$ Öœ ROCKWALI ROCKWALL, PARKING FC S OBB(Õ ALLOWABLE NON-STORM WATER DISCHARGES FIRE HYDRANT FLUSHINGS. * × WATER USED TO WASH VEHICLES OR CONTROL DUST. ■ POTABLE WATER SOURCES (INCLUDING WATERLINE FLUSHINGS CONTAINING LESS THAN MIKE GLENI UNCONTAMINATED GROUND WATER (INCLUDING DEWATERING GROUNDWATER INFILTRATION). ■ FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS SPRINGS, RIPARIAN HABITATS, WETLANDS AND UNCONTAMINATED GROUNDWATER. The seal appearing on this document was authorized by Mike Glenn, P.E. 35059, on EXTERIOR BUILDING WASH DOWN WITHOUT DETERGENTS. June 4, 2018 ■ PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILL MATERIAL HAS BEEN REMOVED) AND WHERE * HEAVILY CHLORINATED WATER (3.5 MG/L OR GREATER FREE CHLORINE) RESULTING FROM **RECORD DRAWING** WATER LINE STERILIZATION SHALL BE DIRECTED UNDER PERMIT TO THE SANITARY SEWER THIS IS TO CERTIFY THAT CHANGES AND UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL APPLY TO THE ENGINEERING DEPARTMENT CORRECTIONS HAVE BEEN MADE TO FOR A SANITARY SEWER DISCHARGE PERMIT AFTER THE MANDATORY CHLORINE RETENTION CONFORM TO THE CONTRACTOR'S RECORD Huckabee TIME (USUALLY 24 HOURS). THE HEAVILY CHLORINATED WATER MAY BE DISCHARGED TO THE OF THIS PROJECT. SANITARY SEWER, BEGINNING TWO WORKING DAYS AFTER PERMIT APPLICATION. www.huckabee-inc.com 800.687.1229 DATE: 08/09/2018 Glenn Engineering Corporation S.W.P.P.P. DETAILS GLENN Job. No. **ENGINEERING** Sheet No. 1759-03-01 Drawn By: TEXAS REGISTRATION NUMBER: F-303 C04.02 PHONE 972-717-5151 105 DECKER COURT, SUITE 910 FAX 972-717-2176

Date:

6-04-2018

IRVING, TEXAS 75062

- DISCHARGES FROM FIRE FIGHTING ACTIVITIES.
- 1000 GALLONS). *
- MATERIALS SUCH AS SOLVENTS.
- IRRIGATION WATER.
- DETERGENTS ARE NOT USED.
- AIR CONDITIONING CONDENSATE.



EROSION CONTROL PLAN

SANDBAGS TO BE 24" TO 30" IN LENGTH

FILLED WITH COARSE SAND AND BE

16" TO 18" IN WIDTH

S" TO 8" THICK

90 TO 125 LBS

16" 2x4 ON 24" CTRS





TEXAS REGISTRATION NUMBER: F-303 PHONE 972-717-5151 105 DECKER COURT, SUITE 910

FAX 972-717-2176 IRVING, TEXAS 75062 rawn By:

6-04-2018

C04.00



EXECUTIVE SUMMARY DETENTION BASIN

100 YEAR

QMAX	QMAX OUT	QALLOWABLE	MAX	MAX. STORAGE	MAX. STORAGE		
то	OF BASIN	OUT OF BASIN	WATER SURFACE	C.F.	C.F.		
PROPOSED	(ROUTED)	(CFS)	ELEVATION	REQUIRED	PROVIDED		
BASIN	(CFS)						
(CFS)							
4.41	3.05	3.75	533.78	672	1,259		

EXECUTIVE SUMMARY DETENTION BASIN

QMAX TO PROPOSED BASIN (CFS)	QMAX OUT OF BASIN (ROUTED) (CFS)	QALLOWABLE OUT OF BASIN (CFS)	MAX WATER SURFACE ELEVATION	MAX. STORAGE C.F. REQUIRED	MAX. STORAGE C.F. PROVIDED
4.05	2.80	3.44	533.72	589	1,259

EXECUTIVE SUMMARY DETENTION BASIN

25 YEAR							
QMAX TO PROPOSED BASIN (CFS)	QMAX OUT OF BASIN (ROUTED) (CFS)	QALLOWABLE OUT OF BASIN (CFS)	MAX WATER SURFACE ELEVATION	MAX. STORAGE C.F. REQUIRED	MAX. STORAGE C.F. PROVIDED		
3.73	2.61	3.17	533.67	535	1,259		

EXECUTIVE SUMMARY DETENTION BASIN

10 YEAR QALLOWABLE MAX. STORAGE MAX. STORAGE QMAX QMAX OUT MAX WATER SURFACE то OF BASIN **OUT OF BASIN** C.F. C.F. PROPOSED (ROUTED) ELEVATION REQUIRED PROVIDED (CFS) BASIN (CFS) (CFS) 3.2 2.32 533.61 463 1,259 2.71

EXECUTIVE SUMMARY DETENTION BASIN

5 YEAR

QMAX TO PROPOSED BASIN (CFS)	QMAX OUT OF BASIN (ROUTED) (CFS)	QALLOWABLE OUT OF BASIN (CFS)	MAX WATER SURFACE ELEVATION	MAX. STORAGE C.F. REQUIRED	MAX. STORAGE C.F. PROVIDED
2.75	2.03	2.33	533.58	415	1,259

EXECUTIVE SUMMARY DETENTION BASIN

		2 YEAR			
QMAX TO PROPOSED BASIN (CES)	QMAX OUT OF BASIN (ROUTED) (CFS)	QALLOWABLE OUT OF BASIN (CFS)	MAX WATER SURFACE ELEVATION	MAX. STORAGE C.F. REQUIRED	MAX. STORAGE C.F. PROVIDED
2.39	1.71	2.02	533.53	363	1,259



PRESENT CONDITIONS Q = C*I*A C = 0.87 Tc = 10 MINUTES

I100 = 9.8 in/hr Q100 = (0.87)(9.8)(0.45 ACRES) + (.35)(9.8)(.03) - 0.29(BYPASS) = 3.65 CFS MAXIMUM RELEASE RATE

PROPOSED CONDITIONS WITHOUT BASIN "A"

 $Q = C^*I^*A$

C = 1.0 USED (0.90 PARKING LOT) Tc = 10 MINUTES I100 = 9.8 in/hr

Q100 = (1.0)(9.8)(0.45 ACRES) = 4.41 CFS

PROPOSED CONDITIONS WITH BASIN "A"

STORM DURATIONS	ONSITE DEVELOPED
10 MINUTES	I = 9.8 Q = (1.0)*(9.8)*(0.45 ACRES) = 4.41
15 MINUTES	I = 9.0 Q = (1.0)*(9.0)*(0.45 ACRES) = 4.05
20 MINUTES	I = 8.3 Q = (1.0)*(8.3)*(0.45 ACRES) = 3.74
30 MINUTES	I = 6.9 Q = (1.0)*(6.9)*(0.45 ACRES) = 3.10
40 MINUTES	I = 5.8 Q = (1.0)*(5.8)*(0.45 ACRES) = 2.61
50 MINUTES	I = 5.0 Q = (1.0)*(5.0)*(0.45 ACRES) = 2.25
60 MINUTES	I = 4.5 Q = (1.0)*(4.5)*(0.45 ACRES) = 2.03
70 MINUTES	I = 4.0 Q = (1.0)*(4.0)*(0.45 ACRES) = 1.80
80 MINUTES	I = 3.7 Q = (1.0)*(3.7)*(0.45 ACRES) = 1.67
90 MINUTES	I = 3.5 Q = (1.0)*(3.5)*(0.45 ACRES) = 1.58
100 MINUTES	I = 3.4 Q = (1.0)*(3.4)*(0.45 ACRES) = 1.53
110 MINUTES	I = 3.2 Q = (1.0)*(3.2)*(0.45 ACRES) = 1.44

	100 yr.	50 yr.	25 yr.	10 yr.	5 yr.	2 yr.
10 min	9.8	9.0	8.3	7.1	6.1	5.3
15 min	9.0	8.1	7.5	6.5	5.5	4.5
20 min	8.3	7.5	6.6	5.9	4.9	3.9
30 min	6.9	6.1	5.5	4.8	4.1	3.3
40 min	5.8	5.2	4.6	4.0	3.4	2.6
50 min	5.0	4.5	4.0	3.5	2.8	2.3
60 min	4.5	3.9	3.5	3.0	2.6	1.9
70 min	4.0	3.7	3.3	2.8	2.4	1.8
80 min	3.7	3.5	3.1	2.6	2.3	1.7
90 min	3.5	3.3	2.9	2.5	2.1	1.6
100 min	3.4	3.0	2.7	2.4	1.9	1.5
110 min	3.2	2.9	2.5	2.3	1.8	1.4

MAXIMUM STORM VOLUMES

10 MINUTES	INFLOW OUTFLOW	(10 min)*(4.41 cfs)*(60 sec/min) (0.50)*(20 min)*(3.65 cfs)*(60 sec/min)	=	= 2646 cf = $\frac{2190 \text{ cf}}{456 \text{ cf}}$
15 MINUTES	INFLOW OUTFLOW	(15 min)*(4.05 cfs)*(60 sec/min) (0.50)*(25 min)*(3.65 cfs)*(60 sec/min)	=	= 3645 cf 2738 cf = 908 cf
[*] 20 MINUTES	INFLOW OUTFLOW	(20 min)*(3.74)*(60 sec/min) (0.50)*(30 min)*(3.65 cfs)*(60 sec/min)	=	= 4482 cf = $\frac{3285 cf}{1203 cf}$ *
30 MINUTES	INFLOW OUTFLOW	(30 min)*(3.10 cfs)*(60 sec/min) (0.50)*(40 min)*(3.65 cfs)*(60 sec/min)	=	$= 5589 \text{ cf} \\ 4380 \text{ cf} \\ = 1200 \text{ cf}$
40 MINUTES	INFLOW OUTFLOW	(40 min)*(2.61 cfs)*(60 sec/min) (0.50)*(50 min)*(3.65 cfs)*(60 sec/min)	=	= 6264 cf 5475 cf = 789 cf
50 MINUTES	INFLOW OUTFLOW	(50 min)*(2.25 cfs)*(60 sec/min) (0.50)*(60 min)*(3.65 cfs)*(60 sec/min)	=	= 6750 cf 6570 cf = 180 cf
60 MINUTES	INFLOW OUTFLOW	(60 min)*(2.03 cfs)*(60 sec/min) (0.50)*(70 min)*(3.65 cfs)*(60 sec/min)	=	= 7290 cf <u>7665 cf</u> = -357 cf
70 MINUTES	INFLOW OUTFLOW	(70 min)*(1.80 cfs)*(60 sec/min) (0.50)*(80 min)*(3.65 cfs)*(60 sec/min)	=	= 7560 cf $\frac{8760 cf}{-1200 cf}$
80 MINUTES	INFLOW OUTFLOW	(80 min)*(1.67 cfs)*(60 sec/min) (0.50)*(90 min)*(3.65 cfs)*(60 sec/min)	=	= 7992 cf <u>9855 cf</u> = -1839 cf
90 MINUTES	INFLOW OUTFLOW	(90 min)*(1.58 cfs)*(60 sec/min) (0.50)*(100 min)*(3.65 cfs)*(60 sec/min)	=	= 8505 cf <u>10950 cf</u> = -2418 cf
100 MINUTES	INFLOW OUTFLOW	(100 min)*(1.53 cfs)*(60 sec/min) (0.50)*(110 min)*(3.65 cfs)*(60 sec/min)	=	= 9180 cf <u>12045 cf</u> = -2865 cf
110 MINUTES	INFLOW OUTFLOW	(110 min)*(1.44 cfs)*(60 sec/min) (0.50)*(120 min)*(3.65 cfs)*(60 sec/min)	=	= 9504 cf <u>13140 cf</u> = -3636 cf

WEIR FLOW TO DEPTH CALCULATIONS				
STORM (YR)	FLOW (CFS)	HEIGHT ABOVE CREST(FT)		
2	1.71	0.28		
5	2.03	0.33		
10	2.32	0.36		
25	2.61	0.42		
50	2.8	0.47		
100	3.05	0.52		

Table 3.2: Runoff Coefficient for Types of Land Use

TYPE OF AREA OR LAND USE	COEF
Parks or Open Areas	0
Single Family Residential or Duplex	0
School	0
Apartments	0
Townhouse	0
Churches	0
Industrial	0
Commercial Business	0
Mercantile District	0
Retail	0
Parking Lot	0
Major and Minor Arterials – R.O.W.	0



MAXIMUM VOLUME REQUIRED IS 1203 CF AT THE 20 MIN. STORM DURATION MAXIMUM VOLUME PROVIDED IS 1259 CF AT THE 20 MIN. STORM DURATION

> TOP OF POND = 534.08 (TOP OF CURB) 100 YEAR WATER SURFACE = 533.77 WS





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	PAVING NOTES: THE INITIAL SOIL TEST AND REPORT BY FUGRO SOUTH, INC. PROJECT NO.0703-1081 AND ANY AND ALL	
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20 40	THE CLAY SOILS ENCOUNTERED NEAR THE EXISTING GROUND SURFACE WILL PROBABLY CONSTITUTE THE SUB GRADE FOR MOST OF THE PARKING AND DRIVE AREAS. THEREFORE, IT IS RECOMMENDED THAT THESE SOILS BE IMPROVED PRIOR TO CONSTRUCTION OF THE PAVEMENTS.	
cale 1" = 20'	IT IS RECOMMENDED THAT THE EXISTING CLAY SOILS IN DRIVE AND PARKING AREAS BE EXCAVATED TO ACHIEVE FINAL SUB GRADE ELEVATION. THE EXPOSED SURFACE OF THE CLAYS SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 6 INCHES AND MIXED WITH AN ESTIMATED 7 PERCENT OF HYDRATED LIME (BY DRY UNIT WEIGHT) IN CONFORMANCE WITH TEXAS HIGHWAY DEPARTMENT ITEM 260. ASSUMING AN IN-PLACE UNIT WEIGHT OF 100 PCF FOR THE PAVEMENT SUB GRADE SOILS. THIS PERCENTAGE OF LIME EQUATES TO ABOUT 32 LBS OF LIME PER SQ. YARD OF SUB GRADE TREATED. THE ACTUAL AMOUNT OF LIME REQUIRED SHOULD BE DETERMINED BY ADDITIONAL LABORATORY TESTS. IT IS RECOMMENDED THAT THE LIME STABILIZATION PROCEDURES EXTEND AT LEAST 4 FT. BEYOND THE EDGE OF THE PAVEMENT TO MINIMIZE THE EFFECTS OF SEASONAL SHRINKING UPON THE EXTREME EDGES OF PAVEMENT. THE SOIL-LIME MIXTURE SHOULD THEN BE COMPACTED TO AT LEAST 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) WITHIN 3 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT. IN ALL AREAS WHERE HYDRATED LIME IS USED TO STABILIZE THE SUB GRADE SOILS, ROUTINE ATTERBERG-LIMIT TESTS SHOULD BE PERFORMED TO ASSURE THAT THE RESULTING PLASTICITY INDEX OF THE SOIL-LIME MIXTURE IS AT/OR BELOW 15. NO SAND IS ALLOWED THE CLIENT SHOULD BE AWARE THAT MECHANICAL LIME STABILIZATION OF THE PAVEMENT SUB GRADE SOILS WILL NOT PREVENT DEEP SEATED MOVEMENT OF THE UNDERLYING UNTREATED MATERIALS. FUTURE MAINTENANCE OF PAVEMENTS SHOULD BE EXPECTED OVER THE LIFE OF THE STRUCTURE. <i>I. PAVING</i> CONCRETE DRIVEWAY APPROACHES SHALL BE A MINIMUM OF 6 INCHES NOR MORE THAN 9 INCHES FROM THE FLOW LINE OF THE GUTTER TO A POINT 10 FEET BEHIND THE FACE OF THE GUTTER. CONCRETE FOR DRIVEWAY SPROACHES SHALL BE A MINIMUM OF 6 SACK MIX IN 22 DAYS CONCRETE WITHA-6 PERCENT ENTRAINED AIR. THE GRADE BELOW THE DRIVEWAY INCLUDING 4 FOOT OUTSIDE OF THE OUTER EDGE OF THE GUTTER TO A POINT 10 FEET BEHIND THE FACE OF THE GUTTER. CONCRETE FOR DRIVEWAY SHALL BE A MINIMUM OF 3,600 PSI (6.5 SACK MIX) IN 22 DAYS CONCRETE WITHA-6 PERCENT ENTRAINED AIR. THE GRADE BELOW THE DRIVEWAY,	Revision / Date 1 04/19/2018 ADDENDUM #1
	DRIVEWAYS SHALL HAVE CONTRACTION JOINTS NOT MORE THAN 15 FEET APART, BOTH TRANSVERSELY AND LONGITUDINALLY ONE-HALF INCH EXPANSION JOINT SHALL BE PLACED ON THE PROPERTY LINES BETWEEN THE APPROACH AND THE DRIVEWAY. THE JOINTS SHALL BE FILLED WITH PRE MOLDED GRAY BITUMINOUS EXPANSION JOINT FILLER AND SHALL EXTEND THE ENTIRE DEPTH AND LENGTH OF THE CONCRETE SECTIONS. FINISHING SHALL BE AS INDICATED IN SECTION III. NOTE: NO CONCRETE SHALL BE PLACED FOR DRIVEWAYS UNTIL THE SUB GRADE, REINFORCEMENT PLACEMENT HAS BEEN INSPECTED AND APPROVED BY THE CITY OR STATE (WHICHEVER IS APPLICABLE).	r revovation I.S.D. Texas
Water 2"	B. PARKING LOTS	BS PARKING LOT FOR ROCKWALL ROCKWALL
	C. ON-SITE SIDEWALKS CONCRETE SIDEWALKS SHALL BE A WIDTH AS DESIGNATED ON SITE PLAN AND A MINIMUM OF 4 INCHES THICK, CONSTRUCTED OF 3,600 PSI (6.5 SACK), IN 28 DAYS CONCRETE WITH 4-6% ENTRAINED AIR AND REINFORCED WITH #3 BARS AT 18" O.C.E.W. TOOLED CONSTRUCTION JOINTS SHALL BE 5-0" OC.ONE-HALF INCH EXPANSION JOINT SHALL BE PLACED EVERY 40 FEET AND WHERE NEW WORK IS CONSTRUCTED ADJACENT TO OTHER CONCRETE WORK (WALLS, FOUNDATION, CURB, ETC.). THE JOINTS SHALL BE FILLED WITH 1/2-INCH PRE MOLDED GRAY BITUMINOUS EXPANSION JOINT FILLER AND SHALL EXTEND THE ENTIRE DEPTH AND WIDTH OF THE CONCRETE SECTION. FINISH OF SIDEWALKS SHALL BE WITH A BROOM FINISH PER ENGINEER. WALKS SHALL HAVE TOOLED CURB EDGES & TOOLED JOINTS. III. FINISHING FOR CONCRETE DRIVEWAY, PARKING LOT AND STREET CURBS	Project:
	THE EXPOSED SURFACES OF DRIVEWAYS AND PARKING LOT SHALL HAVE A MONOLITHIC FINISH BY FLOATING WITH A WOODEN FLAT UNTIL A SLIGHT EXCESS OF SAND APPEARS ON THE SURFACES. IN NO CASE SHALL THE SURFACE BE LEFT SLICK OR WITH A GLOSSY FINISH. EXPOSED SURFACES OF SIDEWALKS SHALL HAVE A MONOLITHIC FINISH BY TRAWLING WITH A STEEL TROWEL AND BRUSHED LIGHTLY WITH AN APPROVED BROOM. THE EDGE OF ALL CONCRETE SHALL BE NEATLY ROUNDED TO THE REQUIRED RADII WITH AN EDGING TOOL. THE EXPOSED SURFACE OF CURBS AND CURBS WITH GUTTER SHALL BE SHAPED WITH A "MULE" AND BRUSHED WITH A WET BRUSH AT RIGHT ANGLE TO THE LINE OF THE CURB TO PRODUCE A UNIFORM TEXTURED SURFACE. THE EDGES SHALL BE NEATLY ROUNDED OFF TO THE REQUIRED RADII. USE OF GROUT OVER A ROUGH FINISHED TEXTURE WILL NOT BE ALLOWED.	
 - 	PROPOSED 6" REINFORCED CONCRETE PAVEMENT 3,600 P.S.I. CONCRETE, 6 1/2 SACK HAND FINISH 6 SACK MACHINE FINISH WITH #4 REBARS ON 18" CENTERS EACH WAY.	MIKE GLENN MIKE GLENN 35059 GISCER The seal appearing on this document was authorized by Mike Glenn, P.E. 35059, on Mike Glenn, P.E. 35059, on
 - RD -	PROPOSED 4" REINFORCED CONCRETE SIDEWALK 3,600 PS 6 1/2 SACK MACHINE FINISH WITH #3 REBAR ON 18" CENTERS EACH WAY.	Huckabee AUSTIN + DALLAS + FORT WORTH + HOUSTON + WACO WWW.huckabee-inc.com
PF	SEE LANDSCAPE PLAN LS 1.01 FOR SLEEVES UNDER ALL PAVING WALKS, DRIVES AND PARKING. SEE M.E.P. PLANS ES 1.01 FOR ALL SLEEVE LOCATIONS FOR LIGHTING.	NORTH PAVING PLAN
- 	ENGINEERING TEXAS REGISTRATION NUMBER: F-303 PHONE 972-717-5151 105 DECKER COURT, SUITE 910	Job. No. Sheet No. 1759-03-01 Sheet No. Drawn By: CO6.000 RAH CO6.000 Date: 06-04-2018







*NOTE: NO SAND UNDER PUBLIC SIDEWALK











