CENTRAL CREDIT UNION OF FLORIDA PANAMA CITY SERVICE BRANCH

2615 HIGHWAY 77 PANAMA CITY, FL 32405

PERMIT SET / CONSTRUCTION DOCUMENTS DECEMBER 7, 2012

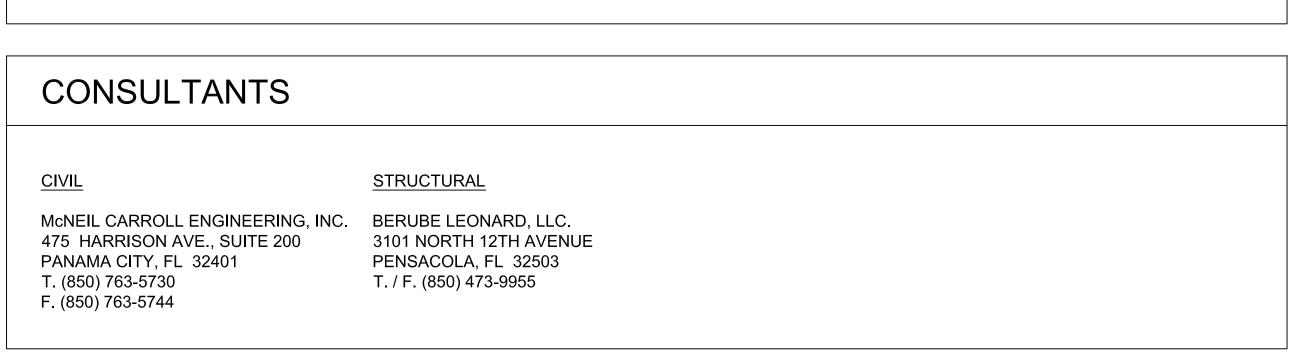


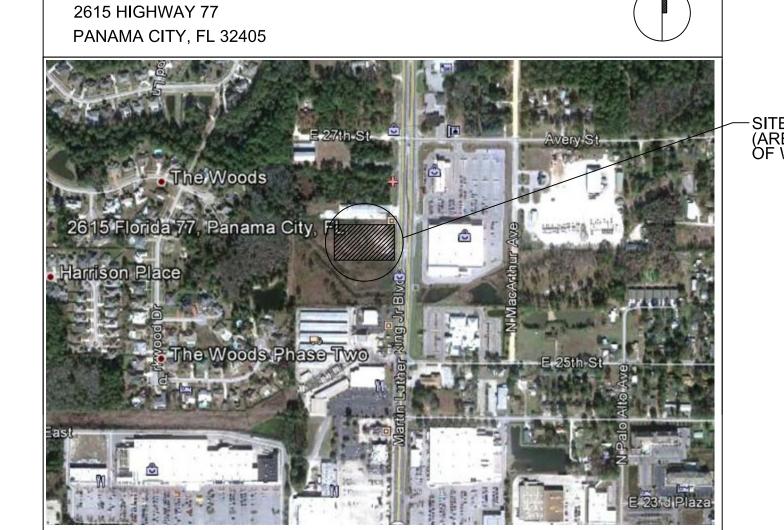
ABBREVIATIONS LEGEND (SOME ABBREVIATIONS MAY NOT BE USED) FE FIRE EXTINGUISHER ACOUS ACOUSTICAL PLUMBING ABOVE FINISHED FLOOR FEC FIRE EXTINGUISHER PROJECTION SCREEN ALTERNATE IN WALL CABINET PRESSURE TREATED ALUMINUM FT FACIAL TISSUE DISPENSER PLYWOOD ASH/WASTE RECEPTACLE FM FORCE MAIN **BRICK EXPANSION JOINT** FH FIRE HYDRANT **RADIUS** BUILDING GB GRAB BAR REINFORCED CONCRETE PIPE **BEARING** GA. GAUGE REINFORCEMENT BOTTOM GALV. GALVANIZED BEAM GLASS **ROUGH OPENING BLOCKING GYPSUM BOARD** STORM DRAIN **COLD WATER** CHALKBOARD SEEMLESS EPOXY FINISH HARDWOOD **COLD JOINT** SEEMLESS RESINOUS FLOOR SYS **HOLLOW METAL** CLG SANITARY SEWER HOLLOW METAL FRAME HORIZONTAL STAINLESS STEEL CEILING HEIGHT CONCRETE MASONRY UNIT HEIGHT COL **STORAGE** HANDICAPPED ELECTRIC CONCRETE WATER COOLER STRUCTURE SUSPENDED CONSTRUCTION SUSP SYS SUSPENSION SYSTEM CONTINUOUS INSULATION **CERAMIC TILE** INTERIOR **TACKBOARD** COPPER **JANITOR** TREATED (WOOD) DETAIL DIAMETER THIN COAT PLASTER (SYSTEM) MARKER BOARD TW DWG DRAWING **MECHANICAL** TOWEL DISPENSER/ DRINKING FOUNTAIN MEMBRANE WASTE RECEPTACLE MEDIUM DENSITY TOILET PAPER DISPENSER DS DOWN SPOUT DOWN OVERLAY PLYWOOD UNLESS OTHERWISE NOTED VINYL COMPOSITE TILE EACH MANHOLE MO **EXPANSION JOINT** MASONRY OPENING WIDE ELEVATION (GRADE) WITH **ELEV ELEVATION** METAL SHELVING WOOD EQ **EQUAL** METAL THRESHOLD WATERPROOF **EQUIP EQUIPMENT** MOUNTED WATER RESISTANT EXIST/EX EXISTING **MILLWORK ELECTRIC WATER COOLER** NAPKIN DISPOSER **ELECTRIC PROJECTION SCREEN NOT IN CONTRACT** FURNISHED BY OWNER NUMBER FLOOR DRAIN NOT TO SCALE FIRE CODE (GYP. BD.) NAPKIN VENDOR ON CENTER FINISHED FLOOR OPPOSITE FTG **FOOTING** PEG BOARD FLOOR PLASTIC LAMINATE

SHEET INDEX CCUF T-1 COVER SHEET C-1 SITE AND LANDSCAPING PLAN C-2 DEMO PLAN C-3 UTILITY GRADING PLAN C-4 DETAIL SHEET A-1 ARCHITECTURAL SITE PLAN A-2 FLOOR PLAN A-3 BUILDING ELEVATIONS A-4 BUILDING SECTIONS & WALL SECTIONS A-5 DOOR & WINDOW ELEVATIONS & SCHEDULES A-6 MILLWORK A-7 MILLWORK STRUCTURAL S-1 TRUSS SPECIFICATION, TYPICAL DETAILS, GENERAL NOTES & WIND LOAD INFO S-2 FOUNDATION PLAN S-3 ROOF FRAMING PLAN S-4 SECTIONS & DETAILS S-5 SECTIONS & DETAILS **MECHANICAL** M-1 MECHANICAL LEGEND, GENERAL NOTES, & DETAILS **PLUMBING** P-1 PLUMBING PLAN, RISER DIAGRAM, & FIXTURE SCHEDULE **ELECTRICAL** E-1 ELECTRICAL LIGHTING PLAN E-2 ELECTRICAL POWER PLAN

CODE ANA	LYSIS	FL BUILDING CODE 2010
BUILDING AREA		e. FT. (NOT INCLUDING Y & DRIVE-THROUGH)
USE & OCCUPANCY CLASSIFICATION	BUSINESS (BANK	<)
BUILDING HEIGHT (STORY, FEET)	1 STORY, 21'-6" II	N HEIGHT TO ROOF RIDGE
CONSTRUCTION TYPE	WOOD FRAME W TYPE V	// BRICK VENEER

SYM	IBOLS LEGE	END		(SOME SY	MBOLS	S MAY NOT BE USED)
206	ROOM NUMBER	1	DEMOLITION NOTE	DETAIL NUMBER THAT SHEET	1	WALL TYPE
(150)	DOOR NUMBER	1	CONSTRUCTION NOTE	BUILDING SECTION, DIRECTION INDICATED BY ARROW	1	WALL TYPE MARKER
A	WINDOW TYPE	1 4.2	_ DETAIL NUMBER SHEET NUMBER	SECTION CUT, DIRECTION INDICATED BY ARROW	•	SPOT ELEVATION





VICINITY MAP: NTS

FLORIDA PRODUCT APPROVAL NUMBERS

STOREFRONT
FL10008 (EXTRUDED ALUMINUM IMPACT RESISTANT)
KAWNEER COMPANY, INC.

SWINGING EXTERIOR DOORS # FL4553 (HOLLOW METAL DOOR & FRAME) CECO

ASPHALT SHINGLES
FL5444
CERTAINTEED CORPORATION

VINYL SOFFIT # FL2633 OWENS CORNING

THESE ITEMS REPRESENT THE BASIS FOR THE DESIGN.
EACH SECTION OF THE SPECIFICATIONS LISTS EQUAL PRODUCTS.
THE EQUALS ARE REQUIRED TO HAVE FLORIDA PRODUCT APPROVAL NUMBERS AS WELL.

CENTRAL CREDIT UNION OF FLORIDA

BRANCH

ANAM,

REVISIONS
lo. Description Dat

itle:

COVER SHEET

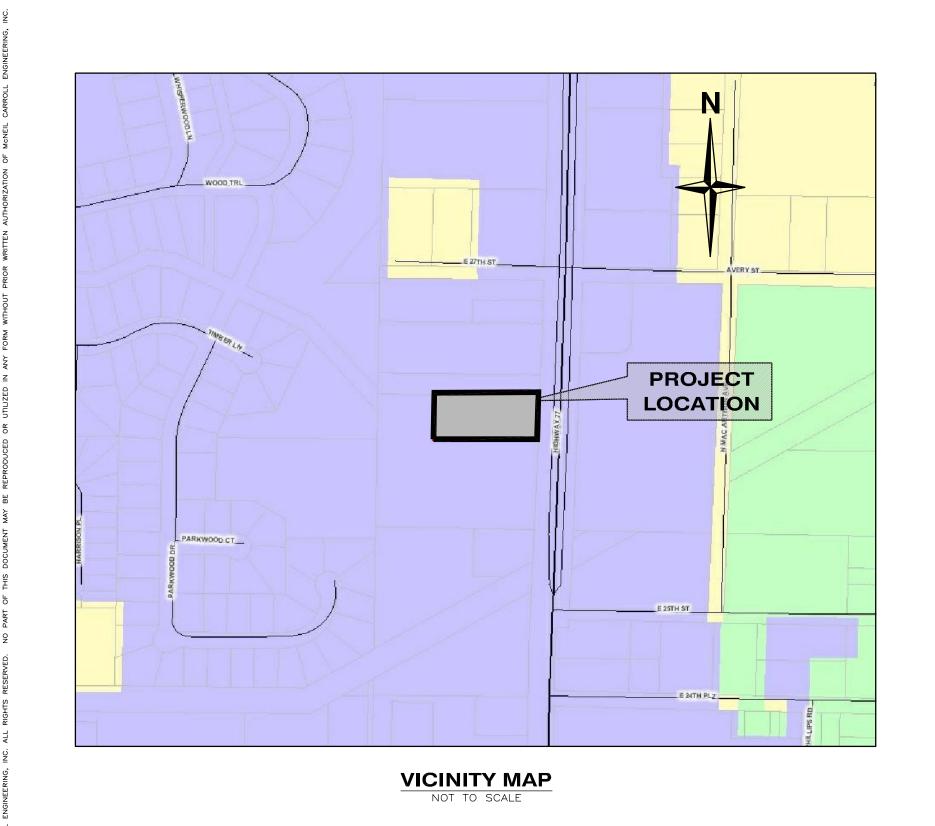
Scale: As Noted
Date: December 7, 2012
Drawn By: JF
Checked By: DA
Approved By: DA

CENTRAL CREDIT UNION OF FLORIDA STATE ROAD 77

FOR:

CENTRAL CREDIT UNION OF FLORIDA

6200 NORTH W STREET PENSACOLA, FLORIDA 32505



PREPARED BY:

A75 Harrison Avenue, Suite 200 Panama City, Florida 32401

— CARROLL

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Fax: 850-763-5744

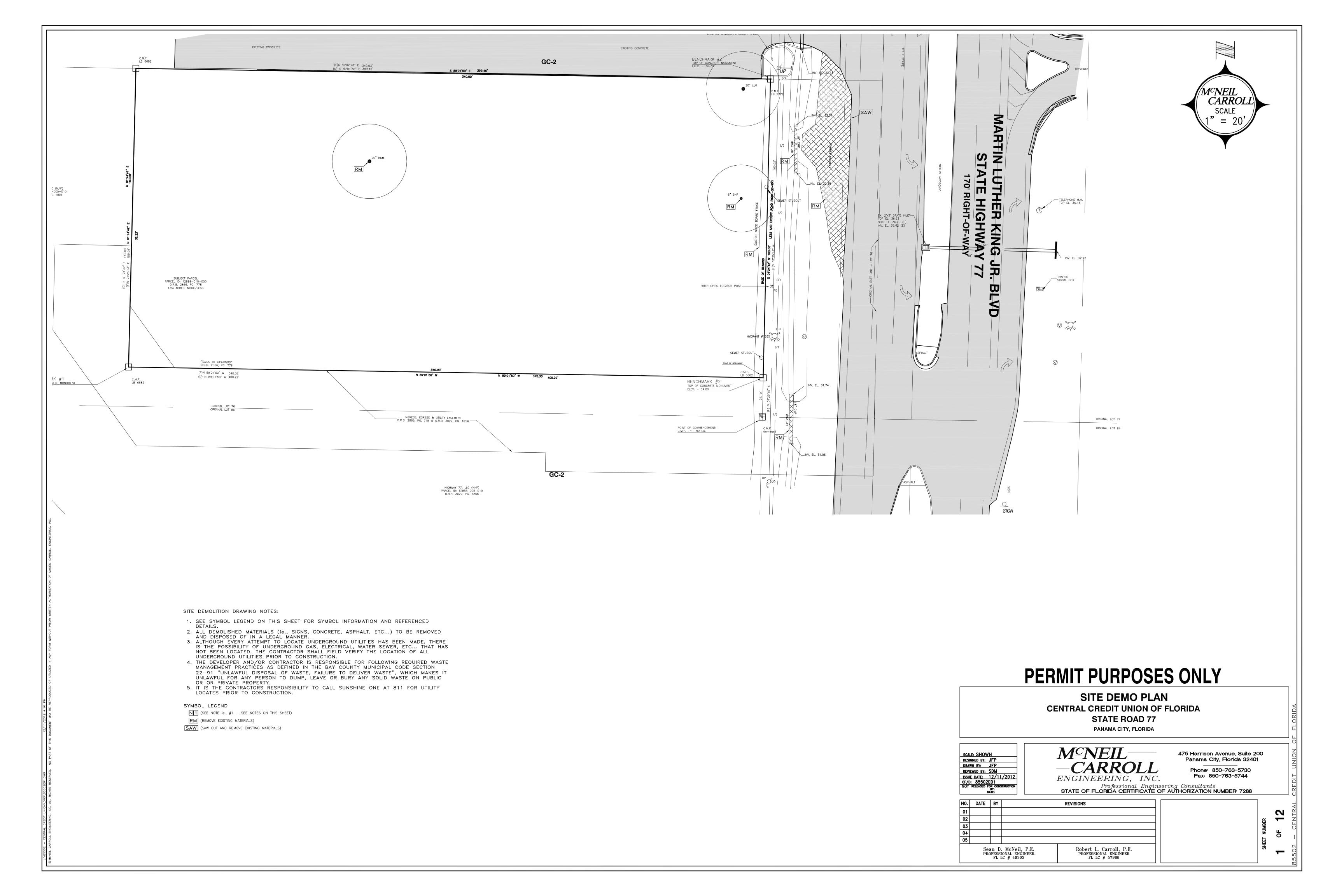
Professional Engineering Consultants

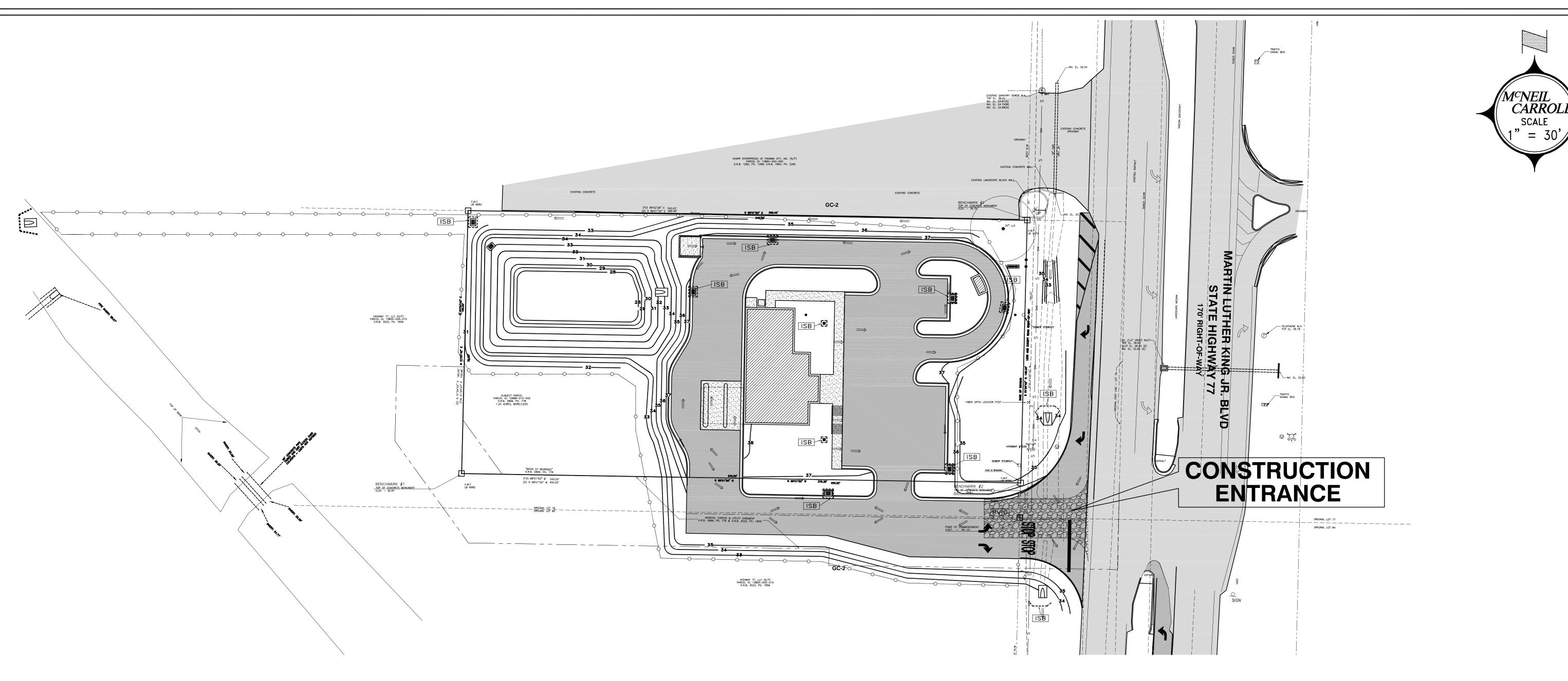
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

PROJECT 85502

INDEX OF SHEETS	SHEETS
OITE DEMO DI ANI	1
SITE DEMO PLAN	•
SITE EROSION CONTROL PLAN	2
SITE LAYOUT PLAN	3
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CONSTRUCTION DETAILS	7-12

NTRAL CREDIT UNION OF FLORIDA





SITE EROSION CONTROL DRAWING NOTES:

DISTRICT, ETC.).

- 1. EROSION CONTROL SHALL BE MAINTAINED FOR THE DURATION FOR THE PROJECT. 2. ALL CONSTRUCTION OUTSIDE OF PROPERTY LINES IS SHOWN IN DETAIL ON PERMIT
- DRAWINGS. (SEE GENERAL NOTES.). 3. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS.
- 4. SEE SECTIONS IN CONSTRUCTION DETAILS. 5. SILT FENCE TO BE INSTALLED AT PERIMETER OF SITE DURING CONSTRUCTION, EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- 6. CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS
- ARE COMPLETE. 7. THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.
- 8. ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS. 9. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT
- 10.CONSTRUCTION DRIVES SHALL SLOPE AWAY FROM THE ROADWAY AT A MINIMUM SLOPE OF 2.00% TO DISTANCE OF NOT LESS THAN 15 FEET FROM THE EDGE OF PAVEMENT. THE MAXIMUM WIDTH OF THE DRIVE SHALL BE 30 FEET WITH #57 GRAVEL SURFACE 6 INCHES THICK. SIGNS SHALL BE PLACED (IN ACCORDANCE WITH CITY AND STATE REQUIREMENTS) TO WARN APPROACHING DRIVERS AND PEDESTRIANS.
- 11.THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR FOLLOWING REQUIRED WASTE MANAGEMENT PRACTICES AS DEFINED IN THE BAY COUNTY MUNICIPAL CODE SECTION 22-91 "UNLAWFUL DISPOSAL OF WASTE, FAILURE TO DELIVER WASTE", WHICH MAKES IT UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR OR PRIVATE PROPERTY
- 12. THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING COVERAGE UNDER THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PRIOR TO START OF CONSTRUCTION OR ANY DISTURBANCE OF LAND GREATER THAN 1 ACRE. THE DEVELOPER/CONTRACTOR WILL FORWARD A COPY OF THE PERMIT AND WILL PROVIDE 48 HOUR NOTIFICATION TO THE APPROPRIATE AGENCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL REQUIRED ELEMENTS OF THE SWPP MUST BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION. FAILURE TO COMPLY COULD RESULT IN
- CODE ENFORCEMENT ACTION AND FINES. 13. QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND/OR WITHIN 24 HOURS OF THE END OF A STORM EVENT
- (RAINFALL) THAT IS A 1/2 INCH OR GREATER: A. POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
 - B. POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM WATER SYSTEMS. C. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
 - D. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION. E. STRUCTURAL CONTROLS. F. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
 - SYMBOL LEGEND
 - (STORMWATER SURFACE FLOW)
 - ISB (INLET SEDIMENT BARRIER SEE CONSTRUCTION DETAILS)
 - SILT (SILT FENCE SEE CONSTRUCTION DETAILS)
 - PVG (24' WIDE x 50' DEEP FDOT #1 OR #2 GRAVEL CONSTRUCTION ENTRANCE 6" THICK)

14. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN. 15.IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES

ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING

POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, WHERE SITES HAVE

- BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. AS NEEDED. 16.RECORDS OF THE INSPECTIONS AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT
- THE CONSTRUCTION SITE AND BE READILY AVAILABLE FOR INSPECTION. 17.ALL STORMWATER MANAGEMENT FACILITIES AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, DEMOLITION OR OTHER DISTURBANCE TO THE SUBJECT SITE.

CONSTRUCTION SEQUENCE AND BMP'S NWFWMD

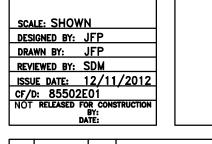
- 18. THE INITIAL PART OF THE CONSTRUCTION PROCESS SHALL BE THE INSTALLATION OF SILT FENCE AROUND THE PERIMETER OF THE AREA THAT IS TO BE DISTURBED TO ENSURE NO TURBID RUNOFF LEAVES THE CONSTRUCTION SITE. THE SILT FENCE SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. IF THERE IS A POSSIBILITY OF RUNOFF TO A WATER BODY, TURBIDITY CURTAIN SHALL BE INSTALLED PER THE CONSTRUCTION DETAILS. THE SECOND STEP SHALL BE THE INSTALLATION OF THE CONSTRUCTION ENTRANCE AND DEMOLITION OF ANY EXISTING IMPROVEMENTS AS NEEDED (SEE DEMOLITION PLAN). THE THIRD STEP SHALL BE TO CLEAR AND GRUB AREAS WHERE IMPROVEMENTS ARE TO BE INSTALLED. AS FILL IS BROUGHT INTO THE SITE, THE STORMWATER BASIN SHOULD BE CREATED TO CAPTURE ANY OVERLAND FLOW AND ACT AS A SEDIMENT TRAP. IT IS RECOMMENDED THAT THE BASIN BE CONSTRUCTED APPROXIMATELY 1/2' HIGHER THAN DESIGN AT THIS POINT TO ENSURE ALL SILTS AND FINES ARE REMOVED AT THE TIME OF FINAL GRADING OF THE STORMWATER BASIN.
- 19. TYPICALLY, THE SANITARY SEWER, STORM SEWER, AND WATER MAINS ARE INSTALLED RESPECTIVELY. UPON INSTALLATION OF THE STORM SEWER, HAY BALES AND FILTER FABRICS SHALL BE USED AT ALL INLET OPENINGS PER THE CONSTRUCTION DETAILS TO THE KEEP THE SYSTEM FREE OF SEDIMENTS DURING THE CONSTRUCTION PHASE. DEPENDING ON SITE CONDITIONS AND SIZE, SEDIMENT TRAPS SHALL BE UTILIZED TO PREVENT TURBID RUNOFF FROM LEAVING THE SITE (SEE EROSION CONTROL PLAN).
- 20.SITE STABILIZATION SHALL BE PROVIDED AS SOON AS THE GRADING WILL ALLOW IN ORDER TO STOP EROSION AND REDUCE TURBID RUNOFF. SEEDING, SODDING, OR HYDROSEEDING SHALL BE USED WHEN FINAL GRADES ARE ESTABLISHED.
- 21.EROSION CONTROL MEASURES SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT AND BE MANAGED IN ACCORDANCE THE THE STATE NPDES PROGRAM.
- 22.THE DESIGN OF THE STORMWATER MANAGEMENT SYSTEM FOR THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
- 23.CENTRAL CREDIT UNION OF FLORIDA IS RESPONSIBLE FOR MONITORING CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITY AND SUBMITTING TO THE APPROPRIATE AGENCY NOTICE OF COMMENCEMENT AND AS-BUILT CERTIFICATIONS FOR THE PROJECT WHEN COMPLETED.

DEWATERING

DEWATERING EFFLUENT OF UNCONTAMINATED GROUNDWATER SHALL BE DISCHARGED SO AS TO PREVENT NEGATIVE IMPACTS TO PUBLIC HE ALTH OR SAFETY, PROPERTY, OR THE WATER RESOURCE. DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE OR NATURAL ATTENUATION AREA PRIOR TO DISCHARGE TO WETLANDS OR OTHER SURFACE WATERS. A SEDIMENT CONTROL DEVICE MEANS SETTLING POND, EXCAVATED SEDIMENT TRAP OR BASIN, DEWATERING TRAP OR TEMPORARY SEDIMENT CONTROL MEASURE. A NATURAL ATTENUATION AREA MEANS A NORMALLY DRY, GRASSED MEADOW OR OPEN AREA WITH EXISTING VEGETATION THAT IS NOT SUBJECT TO EROSION. IF A NATURAL ATTENUATION AREA IS USED, A MINIMUM 50 FOOT SETBACK SHALL BI MAINTAINED FROM THE RECEIVING WATERS OR WETLANDS. WHEN WATER IS UNAVOIDABLY DISCHARGED TO WETLANDS OR OTHER SURFACE WATERS, THE WATER DISCHARGED SHALL BE DONE IN A MANNER THAT DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS AND DOES NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF WATER QUALITY STANDARDS. SETTLING PONDS AND SEDIMENT TRAPS OR BASINS SHALL BE IMPLEMENTED, AT A MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11.0, APPLICANT'S HANDBOOK VOLUME I.

PERMIT PURPOSES ONLY

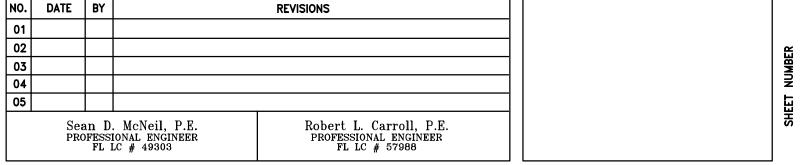
SITE GRADING AND DRAINAGE PLAN CENTRAL CREDIT UNION OF FLORIDA **STATE ROAD 77** PANAMA CITY, FLORIDA

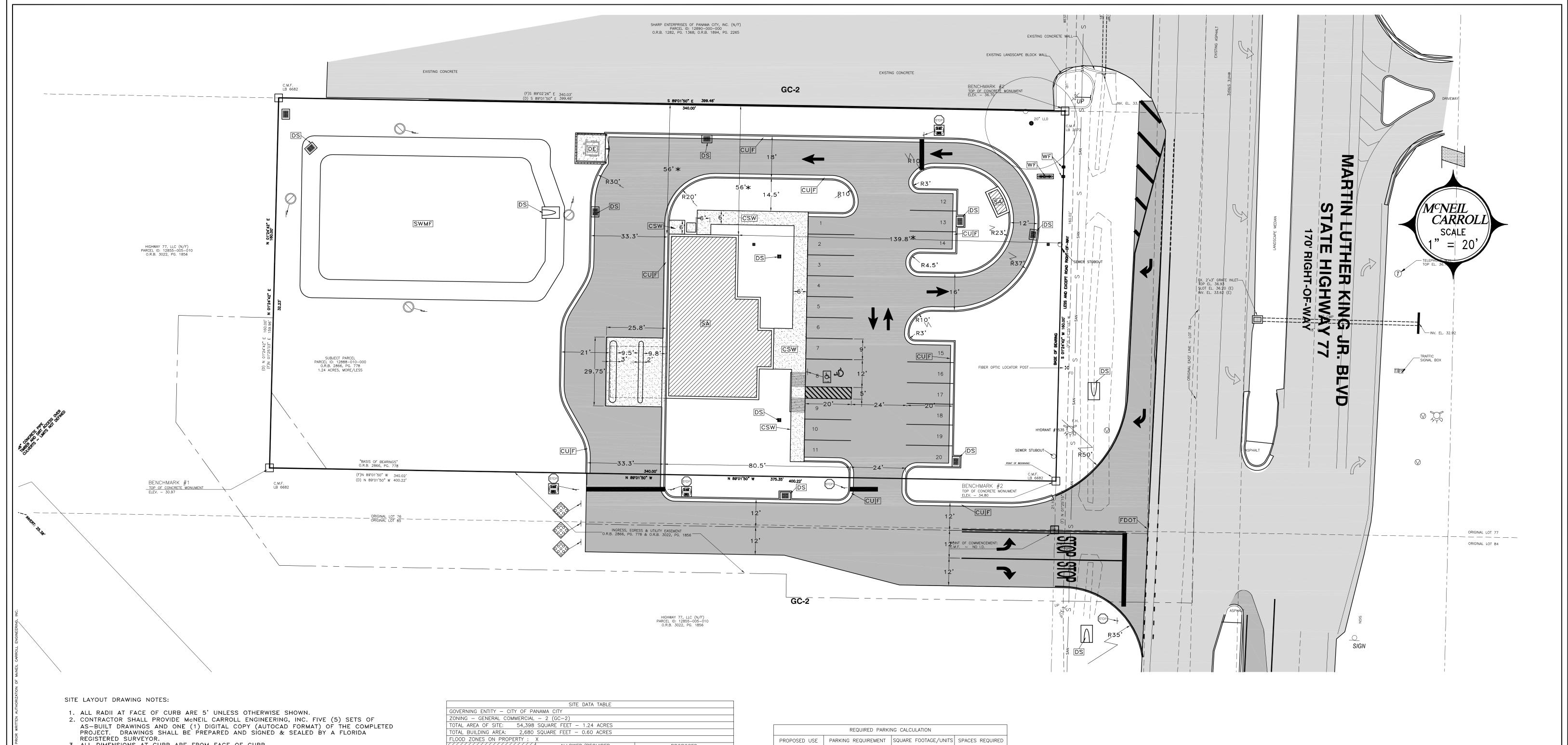


ENGINEERING, INC.

475 Harrison Avenue, Suite 200 Panama City, Florida 32401 Phone: 850-763-5730 Fax: 850-763-5744

Professional Engineering Consultants STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288





- 3. ALL DIMENSIONS AT CURB ARE FROM FACE OF CURB.
 4. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SODDED PER FDOT INDEX 105.
- 5. A COPY OF ALL REGULATORY PERMITS SHALL BE KEPT ON SITE. 6. THE CONTRACTOR SHALL REVIEW THE COMPLETE NWFWMD PERMIT PRIOR TO
- CONSTRUCTION COMMENCEMENT.
- 7. AN 8 $1/2 \times 11$ NWFWMD WEATHER RESISTANT SIGN, INCLUDING THE PERMIT NUMBER SHALL BE PLACED ON THE PROPERTY FACING THE ROAD.
- 8. ALL PROPOSED UTILITIES TO PLACED UNDERGROUND.

SYMBOL LEGEND

(DENOTES NEW "STOP" SIGN)

(DENOTES NEW "HANDICAP PARKING" SIGN)

(DENOTES NEW "DO NOT ENTER" SIGN)

(DENOTES NEW "IN-WATER RECREATION IS PROHIBITED" SIGN)

(DENOTES NEW "END OF ROAD TERMINATION" SIGN - SEE FDOT INDEX # 17349)

* (DENOTES CRITICAL DIMENSION TO OUTSIDE FACE OF BUILDING)

CSW (CONCRETE SIDEWALK - SEE CONSTRUCTION DETAILS) CUF (F.D.O.T. CURB ie., TYPE F)

DE (DUMPSTER ENCLOSURE - SEE CONSTRUCTION DETAILS) DS (DRAINAGE STRUCTURE - SEE GRADING & DRAINAGE PLAN)

FDOT (SEE F.D.O.T. CONNECTION PERMIT) N 1 (SEE NOTE ie., #1 - SEE NOTES ON THIS SHEET) SA (SEE ARCH. PLANS)

SWMF (STORM WATER MANAGEMENT FACILITY) WF (WATER FIXTURE - SEE UTILITY PLAN)

48,958 SQUARE FEET - 1.12 ACRES 20,395 SQUARE FEET - 0.47 ACRES IMPERVIOUS SURFACE RATIO LOOR AREA RATIO 5,440 SQUARE FEET - 0.12 ACRES 34,003 SQUARE FEET - 0.77 ACRES OPEN SPACE AREA OPEN SPACE RATIO FRONT YARD SETBACK
SIDE YARD SETBACK

PARKING SPACE SCHEDULE NO. ANGLE WIDTH DEPTH NOTES: ALL PARKING STALLS SHALL BE 4" WHITE STRIPING ON ASPHALT AND 4" YELLOW ON CONCRETE. HANDICAP SIGNAGE AND STRIPING SHALL BE TO

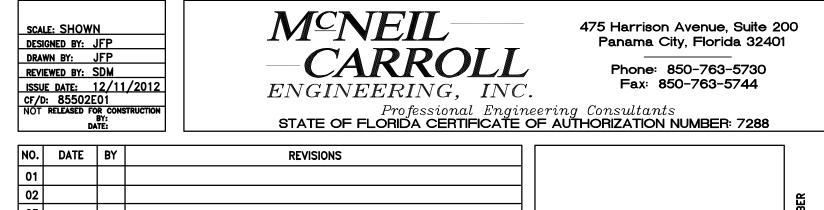
STATE AND CITY CODE. LANE SEPARATION LINES SHALL BE 6" WIDE.

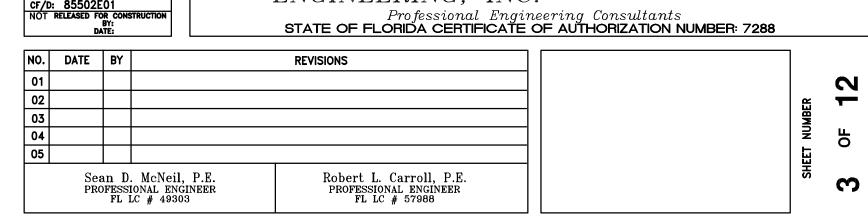
REQUIRED PARKING CALCULATION										
PROPOSED USE	PARKING REQUIREMENT	SQUARE	FOOTAGE/UNITS	SPACES REQUIRED						
FINANCIAL INSTITUTION	1 PER 300 SQ. FT	SQUARE FEET	8.933							
			TOTAL PARK	ING REQUIRED = 9						
		TOTAL PARKI	NG PROVIDED = 20							

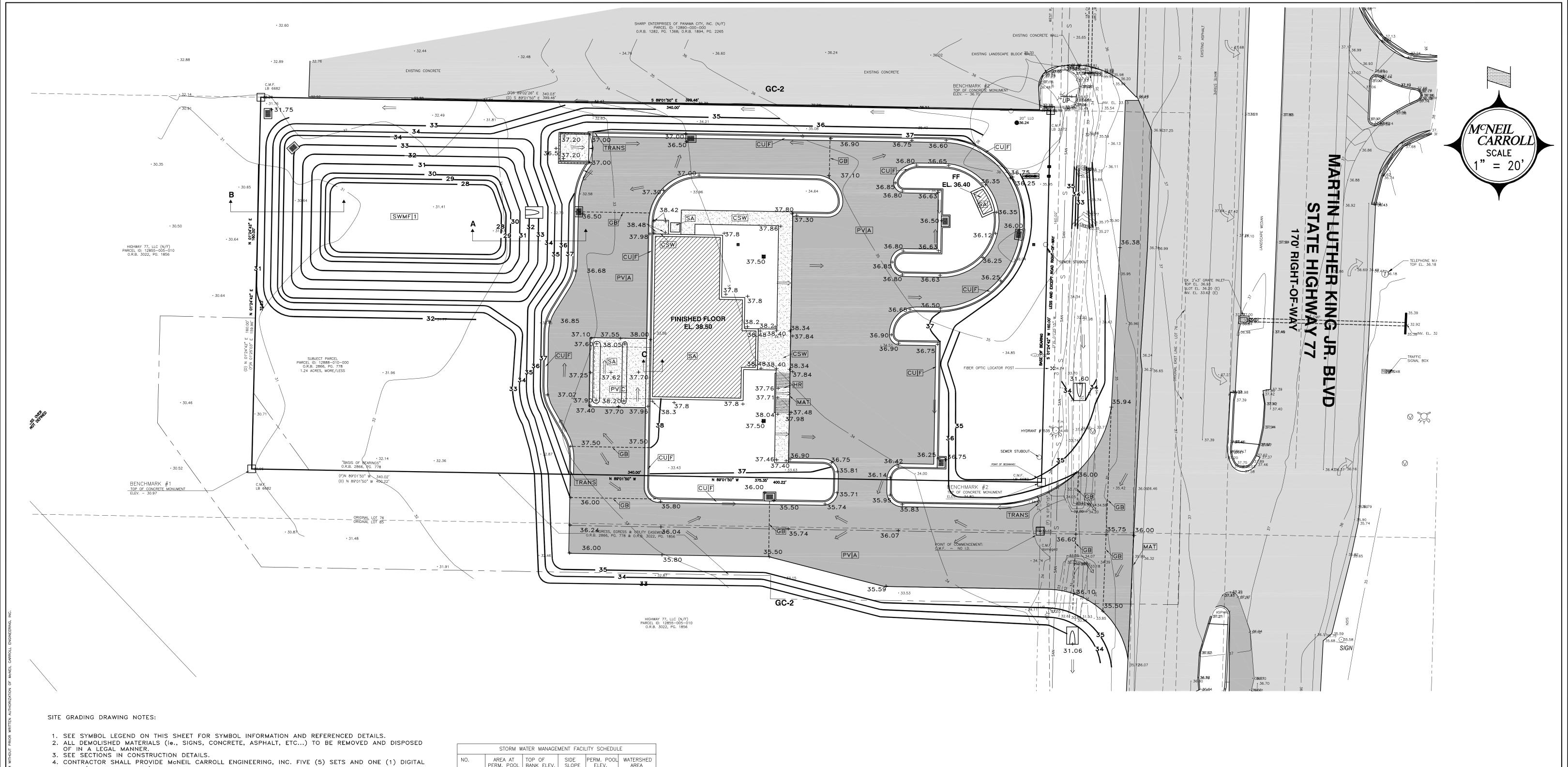
TRIP GENERATION SCHEDULE									
DESCRIPTION/ ITE CODE	UNIT DESIGNATION	EXPECTED UNITS	EXPECTED DAILY TRIPS	P.M. PEAK TRIPS					
DRIVE-IN BANK	DRIVE-IN LANES	3.0	418	82					
CALCULATION D	ERIVED FROM ITE	8th. EDITION.							

PERMIT PURPOSES ONLY

SITE LAYOUT PLAN CENTRAL CREDIT UNION OF FLORIDA **STATE ROAD 77** PANAMA CITY, FLORIDA







- COPY (AUTOCAD FORMAT) OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR.
- 5. IT IS THE CONTRACTORS RESPONSIBILITY TO CALL SUNSHINE ONE AT 811 FOR UTILITY LOCATES PRIOR TO CONSTRUCTION. 6. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SODDED PER FDOT INDEX
- NO. AREA AT TOP OF SIDE PERM. POOL WATERSHED AREA

 SWMF1 0.12 AC. EL. 34.00 VARIES EL. 32.00 0.93 AC. SEE SITE LAYOUT PLAN FOR DIMENSIONS

SYMBOL LEGEND

·34.60 (EXISTING SPOT ELEVATION)

-12- (PROPOSED FINISHED CONTOUR)

--36— (EXISTING CONTOUR)

+12.50 (PROPOSED FINISHED GRADE)

⇒ (STORMWATER SURFACE FLOW) CSW (CONCRETE SIDEWALK - SEE CONSTRUCTION DETAILS)

CU|F (F.D.O.T. CURB ie., TYPE F - SEE CONSTRUCTION DETAILS)

GB (PROPOSED GRADE BREAK) HR (5' WIDE HANDICAP RAMP ie.,12:1 SLOPE)

PVA (ASPHALT PAVEMENT - SEE CONSTRUCTION DETAILS)

PVC (CONCRETE PAVEMENT - SEE CONSTRUCTION DETAILS) MAT (MATCH PROPOSED FLUSH WITH EXISTING SURFACE)

N 1 (SEE NOTE ie.,#1 - SEE NOTES THIS SHEET)

SA (SEE ARCHITECTURAL PLANS)

TRANS (TRANSITION CURB 3')

SWMF 1 (SEE STORM WATER MANAGEMENT FACILITY SCHEDULE THIS SHEET)

SK (SKIMMER - SEE CONSTRUCTION DETAILS)

STORMWATER OPERATION AND MAINTENANCE SCHEDULE

INSPECTION, SPECIAL ATTENTION SHOULD BE MADE TO INSURE THAT:

- (A) STORMWATER MANAGEMENT SYSTEM SHALL BE OPERATED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED DESIGN, PLANS AND CALCULATIONS. (B) THE OPERATION AND MAINTENANCE ENTITY SHALL PROVIDE FOR THE INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM IN ACCORDANCE WITH SUBSECTION 62-346.095(6), F.A.C. DURING THE
 - 1. ALL EROSION IS CONTROLLED AND SOIL IS STABILIZED TO PREVENT SEDIMENT DISCHARGE TO WATERS IN THE STATE. 2. THE SURFACE WATER MANAGEMENT SYSTEM IS KEPT FREE OF DEBRIS, TRASH, GARBAGE,
 - OILS AND GREASES, AND OTHER REFUSE.

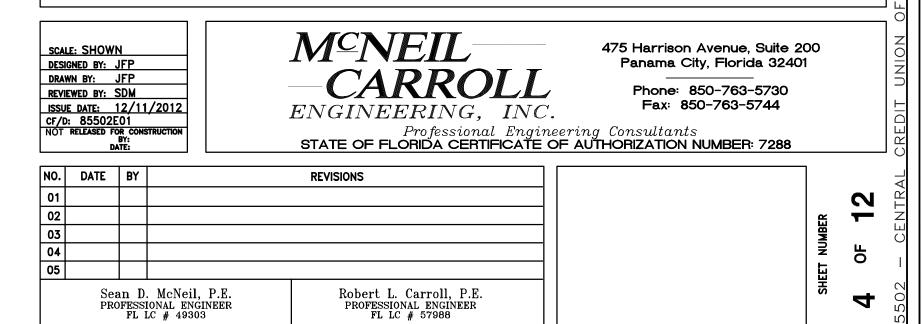
 3. ENGINEERED STORMWATER MANAGEMENT SYSTEM THAT INCLUDE OIL AND GREASE SEPARATORS, SKIMMERS, OR COLLECTION DEVICES ARE WORKING PROPERLY AND DO NOT ALLOW THE DISCHARGE OF OIL OR GREASES. OILS AND GREASES OR OTHER MATERIALS
 - AT A SANITARY LANDFILL OR BY OTHER LAWFUL MEANS. 4. ALL STRUCTURES WITHIN STORMWATER MANAGEMENT SYSTEMS HAVE NOT BECOME CLOGGED OR CHOKED WITH VEGETATIVE OR AQUATIC GROWTH TO SUCH AN EXTENT AS TO RENDER THEM INOPERABLE.

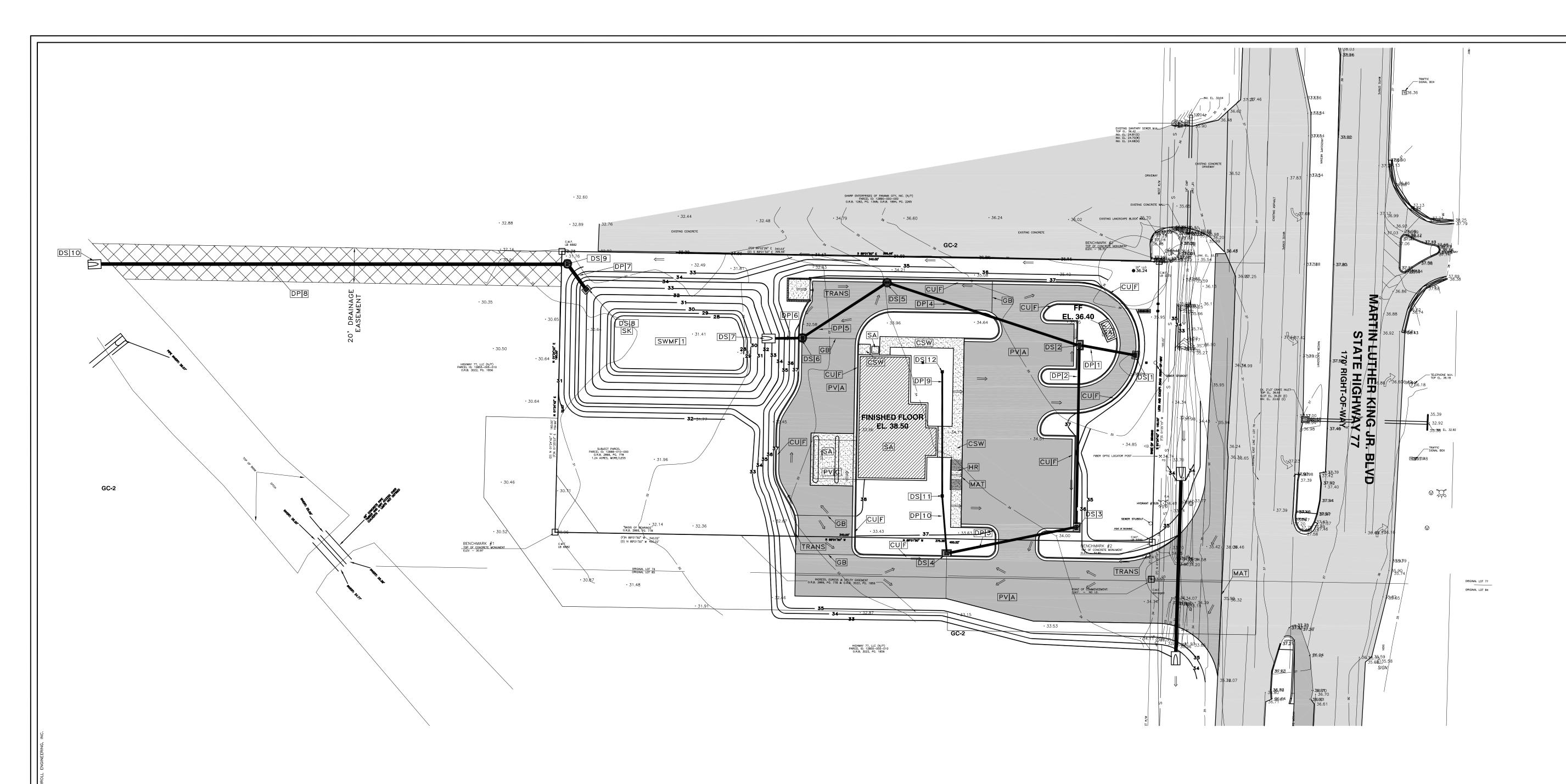
REMOVED FROM SUCH A DEVICE DURING ROUTINE MAINTENANCE SHALL BE DISPOSED OF

(C) INSPECTIONS OF THE PERMITTED SYSTEM SHOULD BE CONDUCTED AT LEAST ONCE EVERY THIRD YEAR AFTER CONVERSION OF A PERMIT TO THE OPERATION PHASE.

PERMIT PURPOSES ONLY

SITE GRADING PLAN CENTRAL CREDIT UNION OF FLORIDA **STATE ROAD 77** PANAMA CITY, FLORIDA





SITE DRAINAGE DRAWING NOTES:

1. SEE SYMBOL LEGEND ON THIS SHEET FOR SYMBOL INFORMATION AND REFERENCED DETAILS. 2. ALL DEMOLISHED MATERIALS (ie., SIGNS, CONCRETE, ASPHALT, ETC...) TO BE REMOVED AND DISPOSED

OF IN A LEGAL MANNER. 3. SEE SECTIONS IN CONSTRUCTION DETAILS.

4. CONTRACTOR SHALL PROVIDE McNEIL CARROLL ENGINEERING, INC. FIVE (5) SETS AND ONE (1) DIGITAL COPY (AUTOCAD FORMAT) OF AS-BUILT DRAWINGS OF THE COMPLETED PROJECT. DRAWINGS SHALL BE PREPARED AND SIGNED & SEALED BY A FLORIDA REGISTERED SURVEYOR. 5. IT IS THE CONTRACTORS RESPONSIBILITY TO CALL SUNSHINE ONE AT 811 FOR UTILITY LOCATES PRIOR

6. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION AND SODDED PER FDOT INDEX

SYMBOL LEGEND

-34.60 (EXISTING SPOT ELEVATION)

--36— (EXISTING CONTOUR)

-12- (PROPOSED FINISHED CONTOUR)

(STORMWATER SURFACE FLOW) CSW (CONCRETE SIDEWALK- SEE CONSTRUCTION DETAILS)

CU|F (F.D.O.T. CURB ie., TYPE F - SEE CONSTRUCTION DETAILS)

DP 16 (SEE DRAINAGE PIPE SCHEDULE THIS SHEET ie.,#16)

DS 12 (SEE DRAINAGE STRUCTURE SCHEDULE THIS SHEET ie.,#12)

GB (PROPOSED GRADE BREAK)

HR (5' WIDE HANDICAP RAMP ie.,12:1 SLOPE) PVA (ASPHALT PAVEMENT - SEE CONSTRUCTION DETAILS)

PV|C (CONCRETE PAVEMENT - SEE CONSTRUCTION DETAILS)

MAT (MATCH PROPOSED FLUSH WITH EXISTING SURFACE) N 1 (SEE NOTE ie.,#1 - SEE NOTES THIS SHEET)

SA (SEE ARCHITECTURAL PLANS)

SWMF 1 (SEE STORM WATER MANAGEMENT FACILITY SCHEDULE THIS SHEET)

SK (SKIMMER - SEE CONSTRUCTION DETAILS)

TRANS (TRANSITION CURB 3')

	DRA	AINAGE PI	PE SCHEDULE	
NO.	SIZE	LF	TYPE	SLOPE
DP1	18	30	ADS	0.20%
DP2	18	101	ADS	0.20%
DP3	18	73	ADS	0.20%
DP4	18	112	ADS	0.20%
DP5	18	54	ADS	0.20%
DP6	18	14	ADS	0.20%
DP7	18	16	ADS	1.17%
DP8	18	239	ADS	1.17%
DP9	15	70	ADS	0.20%
DP10	15	32	ADS	8.93%
ALL PE	RFORAT	ED PIPE	E AS SHOWN (SHALL HAVE A E RATED N-12	GRAVEL PAG
		CTION DE		•

STORM WATER MANAGEMENT FACILITY SCHEDULE AREA AT TOP OF SIDE PERM. POOL WATERSHED PERM. POOL BANK ELEV. SLOPE ELEV. AREA
 SWMF1
 0.12 AC.
 EL. 34.00
 VARIES
 EL. 32.00
 0.93 AC.
 SEE SITE LAYOUT PLAN FOR DIMENSIONS

	DRAINAGE	STRUCTURE SCH	EDULE	
NO.	TYPE STRUCTURE	TOP OF GRATE	PIPE INVERT	BOTTOM INVERT
DS1	FDOT TYPE C INLET (INDEX 232)	EL. 36.00	EL. 32.50 18" OUT W	EL. 31.50
DS2	FDOT TYPE C INLET (INDEX 232)	EL. 36.50	EL. 32.44 18" IN E, 31.64 18" S, 18" OUT W	EL. 31.44
DS3	FDOT TYPE C INLET (INDEX 232)	EL. 36.25	EL. 31.85 18" IN W, OUT N	EL. 30.85
DS2 DS3 DS4 DS5 DS6 DS7	FDOT TYPE C INLET (INDEX 232)	EL. 35.50	EL. 32.00 18" OUT E, 15" IN N	EL. 31.00
DS5	48" DIA. FDOT TYPE MODIFIED C INLET (INDEX 232)	EL. 37.00	EL. 31.41 18" IN E, OUT W	EL. 30.41
DS6	48" DIA. FDOT TYPE MODIFIED C INLET (INDEX 232)	EL. 37.00	EL. 31.30 18" IN E, OUT W	EL. 30.30
DS7	18" CONCRETE MITERED END 3 TO SLOPE	EL. N/A	EL. 31.24 18" OUT	EL.
DS8	FDOT TYPE C INLET (INDEX 232)	EL. 33.25	EL. 29.00 18" OUT W	EL. 28.00
DS9	FDOT TYPE C INLET (INDEX 232)	EL. 31.75	EL. 28.81 18" IN E, OUT W	EL. 28.00
DS10	18" CONCRETE MITERED END 3 TO SLOPE	EL. N/A	EL. 26.00 18" OUT	EL.
DS11	15" ADS CATCH BASIN	EL. 37.50	EL. 35.00 15" OUT	EL. 34.00
DS12	15" ADS CATCH BASIN	EL. 37.50	EL. 34.86 15" IN N. OUT S	EL. 33.86
*-SE	EE DETAIL FOR STRUCTURE			

SEE CONSTRUCTION DETAILS.

APPROVED DESIGN, PLANS AND CALCULATIONS.

STORMWATER OPERATION AND MAINTENANCE SCHEDULE (A) STORMWATER MANAGEMENT SYSTEM SHALL BE OPERATED AND MAINTAINED IN ACCORDANCE WITH THE

(B) THE OPERATION AND MAINTENANCE ENTITY SHALL PROVIDE FOR THE INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM IN ACCORDANCE WITH SUBSECTION 62-346.095(6), F.A.C. DURING THE INSPECTION, SPECIAL ATTENTION SHOULD BE MADE TO INSURE THAT:

1. ALL EROSION IS CONTROLLED AND SOIL IS STABILIZED TO PREVENT SEDIMENT DISCHARGE TO WATERS IN THE STATE.

2. THE SURFACE WATER MANAGEMENT SYSTEM IS KEPT FREE OF DEBRIS, TRASH, GARBAGE, OILS AND GREASES, AND OTHER REFUSE. 3. ENGINEERED STORMWATER MANAGEMENT SYSTEM THAT INCLUDE OIL AND GREASE SEPARATORS, SKIMMERS, OR COLLECTION DEVICES ARE WORKING PROPERLY AND DO NOT ALLOW THE DISCHARGE OF OIL OR GREASES. OILS AND GREASES OR OTHER MATERIALS REMOVED FROM SUCH A DEVICE DURING ROUTINE MAINTENANCE SHALL BE DISPOSED OF

AT A SANITARY LANDFILL OR BY OTHER LAWFUL MEANS.

4. ALL STRUCTURES WITHIN STORMWATER MANAGEMENT SYSTEMS HAVE NOT BECOME CLOGGED OR CHOKED WITH VEGETATIVE OR AQUATIC GROWTH TO SUCH AN EXTENT AS

TO RENDER THEM INOPERABLE. (C) INSPECTIONS OF THE PERMITTED SYSTEM SHOULD BE CONDUCTED AT LEAST ONCE EVERY THIRD YEAR AFTER CONVERSION OF A PERMIT TO THE OPERATION PHASE.

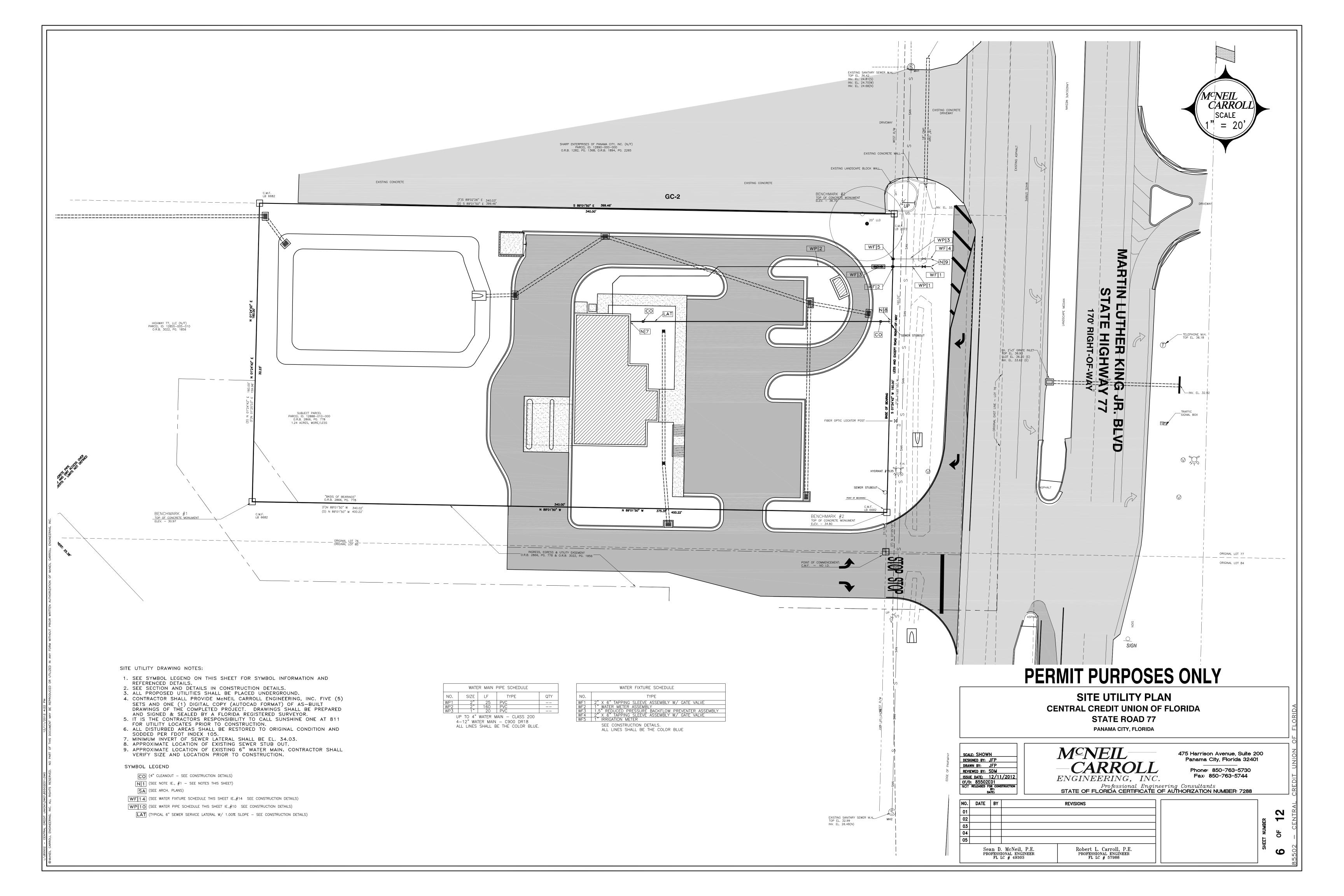
PERMIT PURPOSES ONLY

CARROLL

SITE DRAINAGE PLAN CENTRAL CREDIT UNION OF FLORIDA **STATE ROAD 77** PANAMA CITY, FLORIDA

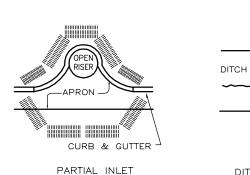
DESIG DRAW		JFP JFP		M ^c NEIL—— —CARROLL	475 Harrison Avenue, Suite 200 Panama City, Florida 32401	
ISSUE	WED BY:	12/11	/2012	ENGINEERING, INC.	Phone: 850-763-5730 Fax: 850-763-5744	
	85502E RELEASED FO		STRUCTION	Professional Engineeri STATE OF FLORIDA CERTIFICATE OF A	ng Consultants UTHORIZATION NUMBER: 7288	
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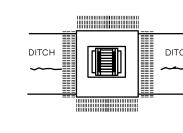
Sean D. McNeil, P.E. Robert L. Carroll, P.E. S



GENERAL NOTES PREVENTION, CONTROL AND ABATEMENT OF EROSION ALL ON AND OFF SITE WORK INCLUDED CONSISTS OF BUT NOT LIMITED TO THE FOLLOWING: 10.2643; SEEDING AND MULCHING OR SODDING FOR STABILIZATION. CONSTRUCTION OF SEDIMENT BASINS, CHECK DAMS OR FLOATING BARRIERS. PLACEMENT OF SILTATION FENCES DURING THE COURSE OF CONSTRUCTION. SILT FENCE TO BE INSTALLED AT PERIMETER OF SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORM WATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORM WATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORM WATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).

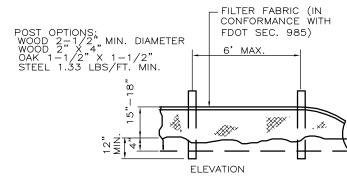
ERY LIGHT LIGHT >5 <10 MODERATE >10 <15 HEAVY >15 <25 VERY HEAVY >25 <40 TEMPORARY SODDING COHESIVE HARDPANS LIGHT - COHESIVE NON-COHESIVE COURSE SAND GRAVELS NON-COHESIVE AND MODERATE + COHESIVE MODERATE NON+COHESIVE AND HEAVY - COHESIVE FDOT CHART I (BALED HAY OR STRAW BARRIERS AND SILT FENCES - INDEX 102



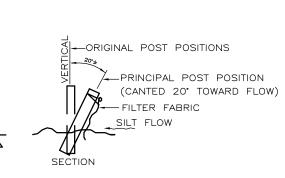


DITCH BOTTOM INLET

ANCHOR BALES WITH 2 - 2"X2"X4' STAKES PER BALE (SEE DETAIL) PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

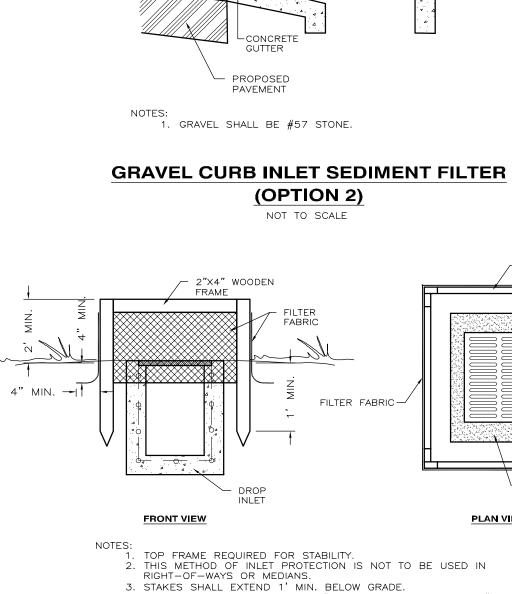


SILT FENCE SHALL EXTEND 4" AWAY FROM STAKES.



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR THE STAKED SILT FENCE (LF.) **TYPE III SILT FENCE**

LO.315,TO.252;DO NOT DEPLOY SILT FENCES IN A MANNER THAT WILL ACT AS A DAM ACROSS SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND AS TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER. SILT FENCE SHOULD BE REPLACED EVERY SIX (6) MONTHS. SILT FENCE SHALL EXTEND A MINIMUM OF 4" BELOW GRADE.



4. FILTER FABRIC SHALL EXTEND 4" MIN. BELOW GRADE AND 4" MIN. BEYOND WOODEN FRAME. **DROP INLET**

SEDIMENT FILTER OPTION 1 NOT TO SCALE

-INLET TOP

-ROADWA

-SIDEWALK

/-2"X4" WOODEN FRAME

DROP INLET

W/ GRATE

PLAN VIEW

PLAN

SECTION

1. GRAVEL FILLED BAGS TO BE PLACED TIGHTLY TOGETHER

CURB INLET SEDIMENT BARRIER

(OPTION 1)

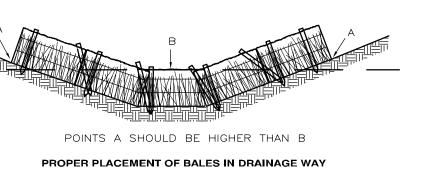
NOT TO SCALE

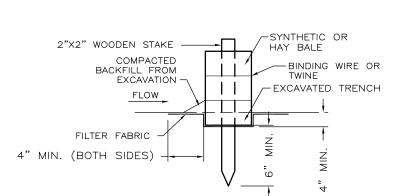
2. IF SEDIMENT IS PENETRATING BAGS, BAGS MAY NEED

TO BE WRAPPED IN ADDITIONAL FILTER FABRIC.

VERTICALLY AND HORIZONTALLY.

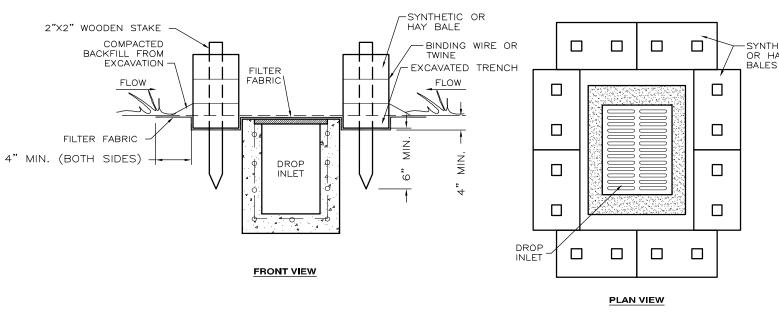
AS TO NOT ALLOW ANY GAPS IN BETWEEN THE BAGS





EROSION CONTROL DETAILS

NOT TO SCALE



DROP INLET SEDIMENT FILTER OPTION 2 NOT TO SCALE

WORK IN RIGHTS-OF-WAYS

- ALL WORK WITHIN RIGHTS-OF-WAYS SHALL BE IN STRICT ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE RESPECTIVE AGENCIES.
- THE CONTRACTOR SHALL COOPERATE WITH THE GOVERNING STATE AND LOCAL AGENCIES IN ALL PROCEDURES, MATERIALS AND METHODS OF CONSTRUCTION. ALL OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: CONSTRUCTION OF DRIVEWAY CONNECTIONS TO EXISTING MUNICIPAL ROADWAYS AS
- PLACEMENT OF ABOVE OR BELOW GROUND UTILITIES AND CONNECTION TO EXISTING UTILITIES AS SHOWN ON PLANS.

SITE CLEARING AND DEMOLITION

ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL THESE GOVERNING AUTHORITIES HAVE BEEN NOTIFIED AND

KEEP ALL AREAS WITHIN THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO PREVENT DUST FROM RISING DUE TO CONSTRUCTION. COMPLY WITH ALL ANTI-POLLUTION ORDINANCES.

THIS SUBCONTRACTOR SHALL SEE TO IT THAT TRUCKS LEAVING THE SITE SHALL DO SO IN SUCH A MANNER THAT MUD AND EARTH WILL NOT BE DEPOSITED ON ADJACENT STREET PAVEMENTS. ANY MUD OR EARTH DEPOSITED ON STREET PAVEMENTS SHALL BE PROMPTLY REMOVED BY THIS SUBCONTRACTOR. ALL CLEARING SHALL BE PERFORMED IN A MANNER SUCH AS TO PREVENT ANY

WASH-OFF OF SOILS FROM THE SITE INTO STREAMS AND/OR STORM DRAINAGE SYSTEMS. APPROPRIATE SEDIMENTATION PONDS, DIKES, COLLARS, AND FILTER MEDIA SHALL BE EMPLOYED TO INSURE COMPLIANCE WITH THESE REQUIREMENTS. WHERE A SPECIFIC STATUTE GOVERNS THESE PROCEDURES, SUCH STATUTE SHALL BE COMPLIED WITH IN IT'S TOPSOIL IS DEFINED AS FRIABLE CLAY LOAM SURFACE SOIL FOUND IN A DEPTH OF NOT LESS THAN 4". SATISFACTORY TOPSOIL IS REASONABLY FREE OF SUBSOIL, CLAY LUMPS,

STONES, AND OTHER OBJECTS OVER 2" IN DIAMETER, AND WITHOUT WEEDS, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. STRIP TOPSOIL TO WHATEVER DEPTHS ENCOUNTERED IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OTHER OBJECTIONABLE MATERIAL.

REMOVE HEAVY GROWTHS OF GRASS FROM AREAS BEFORE STRIPPING. WHERE TREES ARE INDICATED TO BE LEFT STANDING, STOP TOPSOIL STRIPING A SUFFICIENT DISTANCE TO PREVENT DAMAGE TO MAIN ROOT SYSTEM. DISPOSE OF UNSUITABLE OR EXCESS TOPSOIL SAME AS WASTE MATERIAL, HEREIN SPECIFIED.

ALL EXISTING STRUCTURES, UTILITIES AND OTHER OBSTACLES IN CONFLICT WITH THE PROPOSED FACILITY SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER. SEE OTHER UTILITY AND MISCELLANEOUS NOTES CONCERNING REMOVAL.

ALLOW TESTING SERVICES TO INSPECT AND APPROVE SUBGRADE AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS PERFORMED. ATTENTION IS CALLED TO THE FACT THAT THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO OBTAIN LOCATIONS OF ALL EXISTING UTILITIES OR OBSTRUCTIONS WHICH HE MAY ENCOUNTER DURING CONSTRUCTION. AFTER LOCATION OF UTILITIES BY THE APPROPRIATE UTILITY COMPANY, IT IS THE CONTRACTOR'S LIABILITY TO PROTECT ALL SUCH UTILITY LINES, INCLUDING SERVICE LINES AND APPURTENANCES, AND TO REPLACE AT HIS OWN EXPENSE ANY WHICH MAY BE DAMAGED BY THE CONTRACTOR'S EQUIPMENT OR FORCES DURING CONSTRUCTION.

TO PROTECT PERSON FROM INJURY AND TO AVOID PROPERTY DAMAGE, ADEQUATE BARRICADES, CONSTRUCTION SIGNS, TORCHES, RED LANTERNS AND GUARDS AS REQUIRED SHALL BE PLACED AND MAINTAINED DURING THE PROGRESS OF THE CONSTRUCTION WORK. ADEQUATE PROVISION SHALL BE MADE FOR THE FLOW OF SEWERS, DRAINS, AND WATER COURSES ENCOUNTERED DURING CONSTRUCTION, AND THE STRUCTURES WHICH MAY HAVE BEEN DISTURBED SHALL BE SATISFACTORILY RESTORED BY THE CONTRACTOR.

EXCAVATING, FILLING AND GRADING

BURNING WILL NOT BE PERMITTED ON PROJECT SITE.

- ALL ON AND OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE ALL ON AND OFF—SITE PREPARATION WORK FOR EXCAVATION, PIPE BED PREPARATION AND BACKFILL FOR UNDERGROUND UTILITIES.
- COMPACTION OF BACKFILL. REMOVAL OF ALL EXCESS OR UNUSABLE MATERIAL.
- APPROVAL REQUIRED: ALL FILL MATERIAL SHALL BE SUBJECT TO APPROVAL OF THE

ALL ON-SITE FILL MATERIAL SHALL BE SOIL-ROCK MIXTURE WHICH IS FREE FROM ORGANIC MATTER (LESS THAN 3% BY IGNITION), AND OTHER DELETERIOUS SUBSTANCE. IT SHALL CONTAIN NO ROCKS OR LUMPS OVER SIX (6) INCHES IN GREATEST DIMENSION AND NOT MORE THAN 15% OF THE ROCKS OR LUMPS BY DRY WEIGHT, SHALL BE LARGER THAN 2 AND 1/2 INCHES IN GREATEST DIMENSION.

ALL IMPORTED FILL MATERIAL SHALL MEET THE REQUIREMENTS OF ON—SITE FILL MATERIAL AND SHALL IN ADDITION, BE PREDOMINANTLY GRANULAR WITH A MAXIMUM PARTICLE SIZE OF TWO (2) INCHES AND A PLASTICITY INDEX OF 12 OR LESS. ALL ON-SITE FILL MATERIAL USED FOR TRENCH AND STRUCTURAL BACKFILL SHALL MEET

ALL IMPORTED COHESIONLESS MATERIAL USED FOR TRENCH AND STRUCTURAL BACKFILL SHALL BE FREE FROM ORGANIC SUBSTANCE (LESS THAN 3% BY IGNITION) AND OTHER DELETERIOUS MATTER, SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. PRIOR TO ALL WORK OF THIS SECTION, CONTRACTOR IS TO BECOME THOROUGHLY FAMILIAR WITH THE SITE, THE SITE CONDITIONS, AND ALL PORTIONS OF THE WORK, FALLING WITHIN THIS SECTION.

DO NOT ALLOW OR CAUSE ANY OF THE WORK PERFORMED OR INSTALLED TO BE COVERED UP OR ENCLOSED BY WORK OF THIS SECTION PRIOR TO ALL REQUIRED INSPECTIONS, AFTER THE WORK HAS BEEN COMPLETELY TESTED, INSPECTED AND APPROVED, MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO RESTORE THE WORK TO THE CONDITION IN WHICH IT WAS FOUND AT THE TIME OF UNCOVERING, ALL AT NO ADDITIONAL COST TO

FOR SETTING AND ESTABLISHING FINISH ELEVATIONS AND LINES, SECURE THE SERVICES OF A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR ACCEPTABLE TO THE OWNER, CAREFULLY PRESERVE ALL DATA AND ALL MONUMENTS SET BY THE CIVIL ENGINEER OR LAND SURVEYOR, AND IF DISPLACED OR LOST, IMMEDIATELY REPLACE TO THE APPROVAL OF THE OWNER AND AT NO ADDITIONAL COST TO THE OWNER.

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC. NECESSARY AND INCIDENTAL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC. NO THE DRAWINGS AND INCIDENTAL TO THE COMPLETION OF ALL EARTHWORK AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS. ALL OFF—SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: THIS WORK CONSISTS OF GRADING IN ORDER TO ACHIEVE FINISHED ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS.

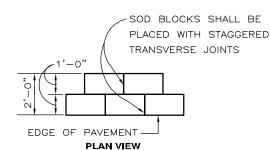
ALL GRADED SURFACES SHALL BE SMOOTH AND UNIFORM, WITHOUT ABRUPT CHANGES IN SLOPE OR GRADE. AREAS TO BE COVERED WITH PAVING SHALL BE FINE GRADED TO THE REQUIRED ELEVATIONS AND SLOPES. FINISHED SURFACES IN ALL OTHER AREAS MAY VARY UP TO 0.1 FEET FROM THE REQUIRED ELEVATIONS.

PERFORM EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, STATE OF FLORIDA, DEPARTMENT OF RANSPORTATION, LATEST EDITION.

EMPLOY, AT CONTRACTOR'S EXPENSE, DESIGN LABORATORY TO PERFORM SOIL TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL TESTING DURING EARTHWORK OPERATIONS. SUBMIT FOLLOWING REPORTS DIRECTLY TO ENGINEER AND COPIES TO CITY NGINEERING DEPARTMENT FROM THE TESTING SERVICES, WITH COPY TO

- TEST REPORTS ON BORROW MATERIAL FIELD DENSITY TEST REPORTS
- ONE OPTIMUM MOISTURE-MAXIMUM DENSITY CURVE FOR EACH TYPE OF SOIL WHERE REQUIRED, THE SITE SHALL BE EXCAVATED TO THE GRADES COURSE, EXCAVATED MATERIAL THAT IS SUITABLE SHALL BE USED IN THE FILL SECTIONS OF THE SITE. NO SUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE. ANY EXCESS SUITABLE MATERIAL SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER.

EXCAVATION FOR MANHOLES, CATCH BASINS, AND OTHER ACCESSORIES SHALL BE SUFFICIENT TO LEAVE AT LEAST 12 INCHES IN THE CLEAR BETWEEN THEIR OUTER SURFACES AND THE EMBANKMENT OF TIMBER THAT MAY BE USED TO PROTECT THEM.



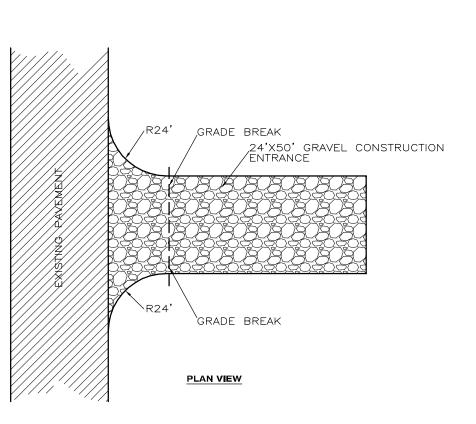
THIS WORK CONSISTS OF SODDING AREAS CLEARED DURING CONSTRUCTION AND NOT PAVED, OR AS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. ALL MATERIAL AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SECTION 570, 571, 573, OR 575 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS,

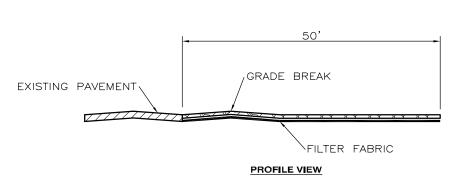
USE ST. AUGUSTINE GRASS (FLORATAM) SOD. THE SOD SHALL BE LIVE, FRESH AND UNINJURED AT THE TIME OF PLANTING AND SHALL HAVE A THICK MAT OF ROOTS WITH ENOUGH ADHERING SOIL TO ASSURE GROWTH. APPLY SOD WITHIN 72 HOURS OF CUTTING OR STACKING TO KEEP MOIST

PREPARE THE GROUND BY LOOSENING THE SOIL. PLACE SOD ON THE PREPARED SOIL WITH EDGES IN CLOSE CONTACT. STAGGER THE SOD PIECES SO AS TO AVOID A CONTINUOUS DOWNHILL SEAM. TAMP THE OUTER EDGES OF THE SODDED AREA TO PRODUCE A SMOOTH CONTOUR.

NOT TO SCALE

KEEP SOD CONTINUOUSLY MOIST TO A DEPTH BELOW THE ROOT ZONE FOR THREE WEEKS AFTER PLACEMENT. SODDING DETAIL

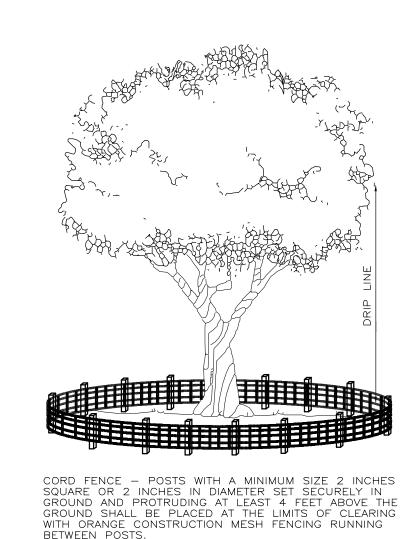




PUBLIC RIGHT-OF-WAYS.

- 1. GRAVEL CONSTRUCTION ENTRANCE SHALL BE 24' WIDE AND 50'
- 2. CONSTRUCTION ENTRANCE SHALL BE 6" OF #57 STONE OVERLAYING FILTER FABRIC
- 3. ALGEBRAIC DIFFERENCE OF SLOPE FROM EXISTING ROAD AND SLOPE FROM EDGE OF PAVEMENT TO GRADE BREAK SHALL NOT EXCEED
- 4. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO
- 5. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT—OF—WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR BASIN.

CONSTRUCTION ENTRANCE DETAIL NOT TO SCALE



TREE BARRIER DETAIL

NOT TO SCALE



SEEDING RATE ZONES

SEEDING RATES (LBS/AC)									
		ZONE	E 1		ZONE II				
	COA	ASTAL	INLA	AND	COAS	TAL	INLAND		
TYPE OF SEED	MAR. TO NOV.	NOV. TO MAR.	MAR. TO OCT.	OCT. TO MAR.	FEB. TO DEC.	DEC. TO FEB.	FEB. TO DEC.	DEC. TO FEB.	
PERMANENT GRASS									
UNHULLED BERMUDA	15	15	10	15	15	15	10	15	
BAHIA ARGENTINA OR PENSACOLA			30	30			30	30	
QUICK GROWING									
BROWN TOP MILLET	20		20		20		20		
ANNUAL RYE GRASS		20		20		20		20	
TOTAL POUNDS PER ACRE 35 35 60 65 35 35 60 65									
NOTE: THE SEEDING RATES SHOWN IN THIS TABLE APPLY ONLY WHEN SEED IS SPREAD BY AN APPROVED MECHANICAL SPREADER MEETING THE REQUIREMENTS OF SECTION 570 AND 577 OF THE STANDARD									

- 1. SPECIAL ATTENTION IS TO BE DIRECTED TO THE CONSTRUCTION OF THE REQUIRED
- 2. FERTILIZE ENTIRE UNPAVED SHOULDER AND FRONT SLOPE TO TOE OF SLOPE OR
- 3. TOPSOIL OBTAINED FROM BORROW PITS OR OTHER SOURCES MAY BE USED IN LIEU OF EXCAVATED TURF AND TOPSOIL WHEN ECONOMICALLY FEASIBLE. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUBSTITUTING TOPSOIL FOR EXCAVATED TURF OR

TOPSOIL: IF THE QUANTITY OF EXISTING STORED OR EXCAVATED TOPSOIL IS INADEQUATE FOR PLANTING, SUFFICIENT ADDITIONAL TOPSOIL SHALL BE FURNISHED. TOPSOIL FURNISHED SHALL BE A NATURAL, FERTILE, FRIABLE SOIL, POSSESSING CHARACTERISTICS OF REPRESENTATIVE PRODUCTIVE SOILS IN THE VICINITY. IT SHALL BE OBTAINED FROM

TOPSOIL SHALL BE WITHOUT ADMIXTURE OF SUBSOIL AND FREE FROM JOHNSON GRASS (SORGHUM HALEPENSE), NUT GRASS (CYPERUS ROTUNDUS) AND OBJECTIONABLE WEEDS

GROUND LIMESTONE (DOLOMITE) CONTAINING NOT LESS THAN 85 PERCENT OF TOTAL CARBONATES, AND SHALL BE GROUND TO SUCH A FINENESS THAT 50 PERCENT WILL PASS A 100-MESH SIEVE AND 90 PERCENT WILL PASS A 20-MESH SIEVE. 16-16-16 FORMULATION OF WHICH 60 PERCENT OF THE NITROGEN IS IN THE UREA-FORMALDEHYDE FORM AND SHALL CONFORM TO THE APPLICABLE STATE FERTILIZER LAWS. IT SHALL BE GRANULATED SO THAT 80 PERCENT IS HELD ON A 16-MESH SCREEN, UNIFORM IN COMPOSITION, DRY AND FREE—FLOWING. MULCH: CLEAN HAY OR FREE

AREAS TO BE GRASSED SHALL BE GRADED TO REMOVE DEPRESSIONS, UNDULATIONS, AND IRREGULARITIES IN THE SURFACE BEFORE GRASSING. PLACING TOPSOIL: AREAS TO BE GRASSED SHALL HAVE A MINIMUM TOPSOIL OVER OF TWO INCHES. TOPSOIL SHALL NOT BE PLACED WHEN THE SUBGRADE IS EXCESSIVELY WET, EXTREMELY DRY OR IN A CONDITION OTHERWISE DETRIMENTAL TO THE PROPOSED PLANTING

OR PROPER GRADING TILLAGE: THE AREA TO BE GRASSED SHALL BE THOROUGHLY TILLED TO A DEPTH OF FOUR INCHES USING A PLOW AND DISC HARROW OR ROTARY TILLING MACHINERY UNTIL A SUITABLE BED HAS BEEN PREPARED AND NO CLODS OR CLUMPS REMAIN LARGER THAN

APPLICATION OF LIME: THE PH OF THE SOIL SHALL BE DETERMINED. IF THE PH IS BELOW 5.0, SUFFICIENT LIME SHALL BE ADDED TO PROVIDE A PH BETWEEN 5.5 AND 6.5. THE LIME SHALL BE THOROUGHLY INCORPORATED INTO THE TOP THREE TO FOUR INCHES OF THE SOIL. LIME AND FERTILIZER MAY BE APPLIED IN ONE OPERATION. APPLICATION OF FERTILIZER: FERTILIZER SHALL BE APPLIED AT THE RATE OF 6 POUNDS PER 1,000 SQUARE FEET AND SHALL BE THOROUGHLY INCORPORATED INTO THE TOP

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AS SPECIFIED HEREIN. IMMEDIATELY BEFORE SEEDS ARE SOWN AND AFTER FERTILIZER AND LIME ARE APPLIED, THE GROUND SHALL BE SCARIFIED AS NECESSARY AND SHALL BE RAKED UNTIL HE SURFACE IS SMOOTH, FRIABLE, AND OF UNIFORMLY FINE TEXTURE. AREAS TO BE GRASSED SHALL BE SEEDED EVENLY WITH A MECHANICAL SPREADER, RAKED LIGHTLY, ROLLED WITH A SINE SPREAD 200-POUND ROLLER, AND WATERED WITH A FINE SPRAY.

SEEDS SHALL BE APPLIED AT THE FOLLOWING RATE:

SEEDS RATE OF APPLICATION

BERMUDA 6 LBS./1000 SQ.FT.

THREE TO FOUR INCHES OF SOIL.

SEEDED AREAS SHALL BE MULCHED AT THE RATE OF NOT LESS THAN 1-1/2" LOOSE MEASUREMENT OVER ALL SEEDED AREAS. SPREAD BY HAND, BLOWER, OR OTHER SUITABLE EQUIPMENT. MULCH SHALL BE CUT INTO THE SOIL WITH EQUIPMENT CAPABLE OF CUTTING THE MULCH UNIFORMLY INTO THE SOIL. MULCHING SHALL BE DONE WITHIN 24 OURS OF THE TIME SEEDING IS COMPLETED.

AFTER SEEDING AND MULCHING, A CULTIPACKER, TRAFFIC ROLLER, OR OTHER SUITABLE EQUIPMENT SHALL BE USED FOR ROLLING THE GRASSED AREAS. AREAS SHALL THEN BE WATERED WITHIN A FINE SPRAY.

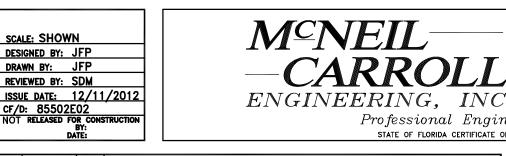
ALL AREAS TO BE GRASSED SHALL BE PROTECTED AGAINST EROSION AT ALL TIMES. FOR PROTECTION DURING WINTER MONTHS (NOVEMBER 1ST THRU MARCH 31ST) ITALIAN RYE GRASS SHALL BE PLANTED AT A RATE OF FOUR POUNDS PER 1,000 SQUARE FEET ON ALL AREAS WHICH ARE NOT PROTECTED BY PERMANENT GRASS.

SEEDING DETAIL

NOT TO SCALE

PERMIT PURPOSES ONLY

CONSTRUCTION DETAILS CENTRAL CREDIT UNION OF FLORIDA STATE ROAD 77 PANAMA CITY, FLORIDA



ENGINEERING, INC.

475 Harrison Avenue, Suite 200 Panama City, Florida 32401 Phone: 850-763-5730 Fax: 850-763-5744

Professional Engineering Consultants STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER: 7288

DATE BY REVISIONS Sean D. McNeil, P.E. Robert L. Carroll, P.E. PROFESSIONAL ENGINEED FL LC # 57988

SITE DRAINAGE

ALL OFF-SITE AND ON-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE EXCAVATION, BEDDING, FILTER MATERIAL AND BACKFILL FOR ALL STORM SEWER, SUBSURFACE COMPLETE INSTALLATION OF ALL STORM SEWER, SUBSURFACE DRAINS, CATCH BASINS, JUNCTION BOXES, MANHOLES, ETC., INCLUDING ALL RELATED FITTINGS, JOINTS COVERS, GRATES, FRAMES, RUNGS, ETC.

ANY WORK WITHIN STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNMENTAL AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL OF THESE GOVERNING AUTHORITIES HAVE BEEN NOTIFIED. POLYVINYL CHLORIDE (PVC), FOR PIPE UP TO AND INCLUDING TEN INCHES (10") IN DIAMETER, SHALL CONFORM TO ASTM D3034 SDR 35 WITH ELASTOMERIC GASKET JOINTS

REINFORCED CONCRETE PIPE, FOR PIPE TWELVE INCHES (12") IN DIAMETER AND UP, SHALL CONFORM TO ASTM C-76, CLASS IV OR AASHTO M-170 WITH BELL AND SPIGOT OR TONGUE AND GROOVE COMPRESSION JOINT CONFORMING TO ASTM C-443. MANHOLES, CATCH BASINS, ETC. SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL BE CONSTRUCTED OF THE FOLLOWING: REINFORCED PRECAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI CONCRETE AND CONFORM TO ASTM C478 OR

AASHTO M-199. SECTIONS SHALL BE COMPLETE WITH 3/4" ROUND CAST IN PLACE WROUGHT IRON STEPS. BRICK SHALL BE SOUND, HARD BURNED THROUGHOUT AND OF UNIFORM SIZE AND QUALITY AND SHALL BE IN ACCORDANCE WITH ASTM C-32, GRADE MS OR MM. CONCRETE MASONRY SHALL BE SOLID PRECAST SEGMENTAL CONCRETE MASONRY UNITS IRON CASTINGS SHALL CONFORM TO ASTM A-48, CLASS 30. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS AND GRATES SHALL BE MACHINED, FITTED TOGETHER AND MATCH MARKED TO PREVENT ROCKING. SYSTEM IDENTIFYING LETTER 2" HIGH SHALL BE STAMPED OR CAST INTO ALL COVERS SO THAT THE MAY BE PLAINLY VISIBLE. CASTINGS SHALL BE MANUFACTURED BY EAST JORDAN IRON WORKS, INC. NEENAH FOUNDRY MANHOLE STEPS FOR BRICK OR CONCRETE MASONRY STRUCTURES SHALL BE CAST IRON ASPHALT COATED, NEENAH FOUNDRY COMPANY "R-1980-E" OR EQUAL. CONCRETE AND MASONRY MATERIALS FOR CONSTRUCTION OF STORM DRAINAGE STRUCTURES SHALL CONSIST OF THE FOLLOWING:

FINE AND COARSE AGGREGATES FOR CONCRETE SHALL BE PER ASTM C-33. AGGREGATES SHALL BE WELL GRADED FROM FINE TO COARSE WITHIN LIMITS SPECIFIED IN ASTM C-33. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".

PORTLAND CEMENT SHALL BE STANDARD BRAND OF PORTLAND CEMENT CONFORMING TO

AGGREGATE FOR CEMENT MORTAR SHALL BE CLEAN, SHARP SAND CONFORMING TO ASTM C-144. GRADE SAND FROM COARSE TO FINE WITH 100% PASSING NO. 8 SIEVE, AND NOT OVER 10 TO 30% PASSING NO. 50 SIEVE. HYDRATED LIME SHALL COMPLY WITH ASTM C-207, ALL MATERIAL USED FOR CONCRETE AND THE DESIGN OF ALL CONCRETE MIXES SHALL CONFORM WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE (ACI

ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28-DAY COMPRESSIVE JOINT SEALANT SHALL BE HOT LAID BITUMINOUS SEALER.

RIP RAP SHALL BE SOUND, TOUGH DURABLE ROCK OR BROKEN CONCRETE AS APPROVED BY THE GEOTECHNICAL ENGINEER. RIP RAP SHALL BE AT LEAST EIGHT INCH (8") IN ONE DIMENSION AN SHALL HAVE A VOLUME OF NOT LESS THAN J1/3 CUBIC FOOT. SMALLER PIECES PERMITTED FOR FILLING VOIDS.

REINFORCING STEEL FOR CONCRETE SHALL BE INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 40. WELDED WIRE MESH SHALL CONFORM TO ASTM DESIGNATION A185 FOR SMOOTH WIRE AND ASTM A497 FOR DEFORMED WIRE. FORMS FOR FOUNDATIONS AND OTHER CONCRETE WORK SHALL BE WOOD. FORMS SHALL BE OF SUFFICIENT STRENGTH TO PREVENT DEFORMATION UNDER LOAD AND TIGHT ENOUGH TO PREVENT LEAKAGE. FOUNDATIONS MAY BE POURED AGAINST EARTH WHERE CONDITIONS

ALL REINFORCEMENT SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318-77. WELDED WIRE MESH SHALL BE LAPPED 6-INCHES AT ALL EDGES. THE MIXING, PLACING, CURING AND FINISHING OF CONCRETE SHALL COMPLY WITH ACI 304 AND ACI 318. ALL EXPOSED SURFACES SHALL BE GIVEN A HARD STEEL TROWEL FINISH WITH NO TROWEL MARKS REMAINING. NO CEMENT SHALL BE DUSTED ON THE SURFACE. ALL CONCRETE SHALL BE CURED BY COATING WITH A CLEAR CURING NO CEMENT CONFORMING TO ASTM C-304, OR BY KEEPING IT WET FOR AT LEAST SIX DAYS AFTER POURING. AFTER THE

FORMS ARE STRIPPED, ALL EXPOSED CONCRETE SURFACES SHALL BE POINTED AS NEEDED

CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 3000 PSI MINIMUM. MIX SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD. CONCRETE FILL BELOW GRADE FOR PIPE CRADLES ETC. MAY BE 2500 PSI AT 28 DAYS. CONCRETE, WHERE EXPOSED TO THE WEATHER, SHALL BE AIR ENTRAINED. AIR ENTRAINMENT SHALL BE ACCOMPLISHED BY THE USE OF ADDITIVES CONFORMING TO ASTM C-260. AIR CONTENT SHALL BE 6% + 1%. ADDITIVE SHALL BE USED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S PRINTED DIRECTIONS.

READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94. CEMENT MORTAR SHALL BE AS SPECIFIED HEREINAFTER. USE METHODS OF MIXING MORTAR MATERIALS CAN BE CONTROLLED AND ACCURATELY MAINTAINED DURING WORK PROGRESS. MORTAR SHALL NOT BE MIXED IN GREATER QUANTITIES THAN SATISFACTORY WORKABILITY. RETEMPERING OF MORTAR IS NOT PERMITTED.

MORTAR FOR LAYING BRICK OR CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-270. TYPE M, AVERAGE COMPRESSIVE STRENGTH 2500 AT 28 DAYS. MORTAR MIX SHALL BE PROPORTIONED BY VOLUME. MORTAR FOR PARGING SHALL CONSISTS OF ONE PART PORTLAND MORTAR FOR GROUTING OF RIP RAP SHALL CONSIST OF ONE PART PORTLAND CEMENT AND

STORM WATER SEWERS: STORM SEWERS SHALL BE INSTALLED IN LOCATIONS AND OF SIZES

LAY PIPE, EMBED IT FIRMLY TO REQUIRED LINE AND GRADE WITH BELLS OF GROOVE END UP—GRADE. FIT ENDS TOGETHER, EXCAVATE BELL HOLES SO THAT SEWER WILL HAVE SMOOTH AND UNIFORM INVERT THROUGHOUT ITS LENGTH.

CORRUGATED METAL PIPE SHALL BE PLACED ON A FLAT BOTTOM TRENCH WITH HAUNCHES SOLIDLY SUPPORTED BY TAMPED BEDDING MATERIAL. WHERE GROUND IS FOUND UNSUITABLE TO SUPPORT PIPE, PROVIDE CONCRETE CRADLES. DEPOSIT CONCRETE FULL WIDTH OF TRENCH 4" DEEP MINIMUM TO BOTTOM OF PIPE, REINFORCE CONTINUOUSLY WITH TWO (2) NO. 4 REINFORCING BARS. BEFORE CONCRETE IS SET, EMBED PIPE EVENLY, DEPOSIT REMAINDER OF CONCRETE TO CENTERLINE OF PIPE AND TAMP IN A MANNER TO AVOID DISTURBING PIPE.

WHERE STORM SEWER CROSSES A SANITARY SEWER OR WATER LINE AND THE STORM SEWER IS WITHIN ONE AND A HALF (1-1/2) FEET OF THE SANITARY SEWER PIPE OR WATER LINE, THE INTERSECTION OF THE PIPE OR LINE SHALL BE EMBEDDED IN CONCRETE FOR A DISTANCE OF FIVE FEET (5') EACH WAY FROM CENTERLINE OF INTERSECTION.

PROVIDE POURED CONCRETE FOUNDATIONS FOR DRAINAGE STRUCTURES. PRECAST CONCRETE BASE MAY BE USED WHERE APPROVED BY THE GEO—TECHNICAL ENGINEER. PRECAST CONCRETE BASE MUST BE SET LEVEL ON SAND CUSHION OF NOT LESS THAN 2" NOR MORE THAN 4".

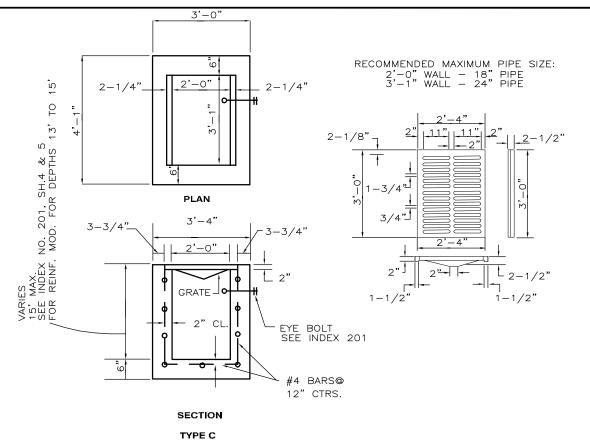
MANHOLES AND CATCH BASINS SHALL BE CONSTRUCTED OF BRICK, CONCRETE MASONRY OR PRECAST CONCRETE WITH CAST IRON FRAMES, COVERS AND MANHOLE STEPS, AS INDICATED

RIP RAP SHALL BE LAID OVER FILTER FABRIC FROM THE BOTTOM UPWARD, STONES SHALL BE LAID BY HAND WITH EIGHT (8") INCH MINIMUM DIMENSION PERPENDICULAR TO GRADE WITH WELL BROKEN JOINTS, COMPACTED AS IT GOES, TRUE TO LINE. ALL JOINTS SHALL BE FILLED WITH CEMENT MORTAR SURFACE OF STONE TO BE EXPOSED. CLEAN JOINTS WITH SIRE BEFORE BACKFILLING AROUND DRAINAGE STRUCTURES, ALL FORMS, TRASH AND DEBRIS SHALL BE REMOVED AND CLEARED AWAY. SELECTED EXCAVATED MATERIAL SHALL BE PLACED

SYMMETRICALLY ON ALL SIDES IN EIGHT INCH (8") MAXIMUM LAYERS; EACH LAYER SHALL BE MOISTENED AND COMPACTED WITH MECHANICAL OR HAND TAMPERS. INFILTRATION OF THE STORM DRAINAGE SYSTEM SHALL NOT EXCEED 0.60 GALLONS PER INCH OF INTERNAL PIPE DIAMETER PER ONE HUNDRED FEET (100') OF PIPELINE PER HOUR WITH A MAXIMUM HYDROSTATIC HEAD AT THE CENTER LINE OF THE PIPE OF TWENTY FIVE FEET (25'), OR AS REQUIRED BY GOVERNING CODE AUTHORITIES.

CATCH BASIN FRAMES AND GRATINGS: ASPHALT COATED GRAY CAST IRON, ANSI/ASTM A 48,

IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY ALL MATERIALS NECESSARY TO



1. THESE INLETS ARE SUITABLE FOR BICYCLE AND PEDESTRIAN AREAS AND ARE TO BE USED IN DITCHES, MEDIANS AND OTHER AREAS SUBJECT TO INFREQUENT TRAFFIC LOADINGS BUT ARE NOT TO

2. INLETS SUBJECT TO MINIMAL DEBRIS SHOULD BE CONSTRUCTED WITHOUT SLOTS. WHERE DEBRIS IS A PROBLEM INLETS SHOULD BE CONSTRUCTED WITH SLOTS. SLOTTED INLETS LOCATED WITHIN ROADWAY CLEAR ZONES AND IN AREAS ACCESSIBLE TO PEDESTRIANS SHALL HAVE TRAVERSABLE SLOTS. THE TRAVERSABLE SLOT MODIFICATION IS NOT ADAPTABLE TO INLET TYPE H. SLOTS MAY 3. STEEL GRATES ARE TO BE USED ON ALL INLETS WHERE BICYCLE TRAFFIC IS ANTICIPATED. STEEL GRATES ARE TO BE USED ON ALL INLETS WITH TRAVERSABLE SLOTS. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON INLETS WITHOUT SLOTS WHERE BICYCLE TRAFFIC IS NOT ANTICIPATED. EITHER CAST IRON OR STEEL GRATES MAY BE USED ON ALL INLETS WITH NON—TRAVERSABLE SLOTS. SUBJECT TO THE SELECTION DESCRIBED ABOVE, WHEN ALTERNATE G GRATE IS SPECIFIED IN THE PLANS, EITHER THE STEEL GRATE, HOT DIPPED GALVANIZED AFTER FABRICATION, OR THE CAST INCOME.

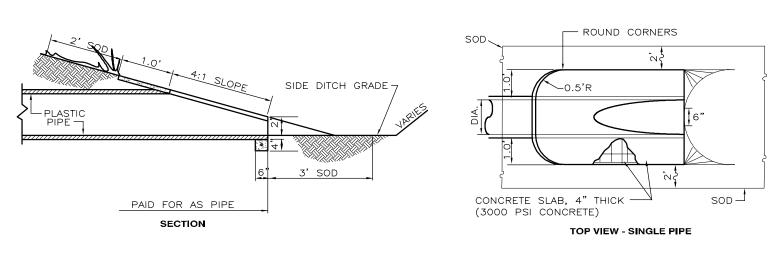
IRON GRATE MAY BE USED, UNLESS THE PLANS STIPULATE THE PARTICULAR TYPE 4. RECOMMENDED MAXIMUM PIPE SIZES SHOWN ARE FOR CONCRETE PIPE. PIPE SIZES LARGER THAN THOSE RECOMMENDED MUST BE CHECKED FOR FIT. 5. ALL EXPOSED CORNERS AND EDGES OF CONCRETE ARE TO CHAMFERED 3/4".

6. PAVEMENT TO BE USED ON INLETS WITHOUT SLOTS AND INLETS WITH NON-TRAVERSABLE SLOTS ONLY WHEN CALLED FOR IN THE PLANS; BUT REQUIRED ON ALL TRAVERSABLE SLOT INLETS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR INLETS. QUANTITIES SHOWN ARE FOR INFORMATION 7. TRAVERSABLE SLOTS CONSTRUCTED IN EXISTING INLETS SHALL BE PAID FOR AS INLETS PARTIAL, AND SHALL INCLUDE THE COST FOR SLOT OPENINGS, PAVING AND ANY REQUIRED REPLACEMENT

8. SODDING TO BE USED ON ALL INLETS NOT LOCATED IN PAVED AREAS AND PAID FOR UNDER CONTRACT UNIT PRICE FOR SODDING, SY.

9. FOR SUPPLEMENTARY DETAILS SEE INDEX NO. 201.

FDOT TYPE "C" INLET DETAIL

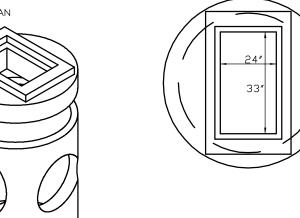


CONCRETE MITERED END DETAIL

PRODUCT SPECIFICATIONS

THIS INLET IS A 48" & 60" DIA. MODIFIED TYPE "C" INLET. IT IS USED IN THE PARKING LOTS AND SWALE LOCATIONS. THE ADVANTAGE OF THIS DESIGN IS THE ROUND BOTTOM WHICH ALLOWS FOR PIPES TO ENTER AND EXIT AT 90 DEG. TO THE WALL. THE TOP CAN

	DIMEN	ISIONS:	
А	В	С	D
48"	5"	0"	VARIES
60"	6"	6"	VARIES





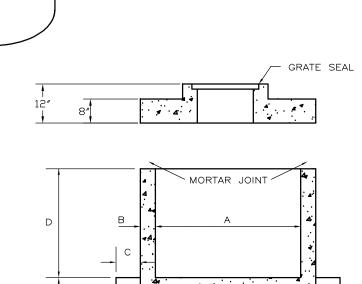
WALL REINFORCING: PER ASTM C-478 STANDARDS

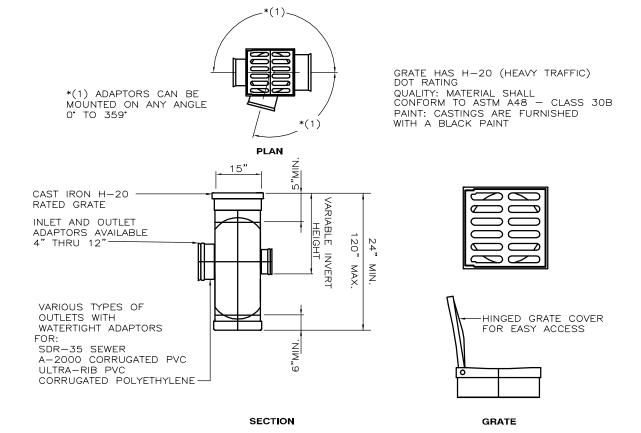
TOP SLAB REINFORCING: 48" DIA. - #6 @ 6" C.C.E.W. WITH 2 EA. #6 (4 SIDES) AROUND OPENING* 60" DIA. - #6 @ 6" C.C.E.W. WITH 2 EA. #6 (4 SIDES) AROUND OPENING*

BOTTOM SLAB REINFORCING:

CONCRETE: 4000 PSI, TYPE II CEMENT

* GRADE 40, OR EQUIVALENT WELDED WIRE MESH.

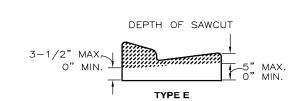




NOTE: USE ADS CATCH BASIN OR EQUAL.

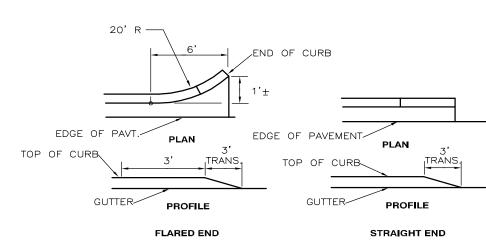
15" ADS CATCH BASIN DETAIL

MODIFIED TYPE "C" INLET DETAIL.

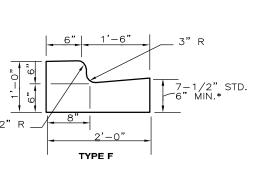


SAWCUTS SHOULD BE AVOIDED WITHIN VALLEY GUTTER AND WITHIN CURB AND GUTTER ENDINGS.

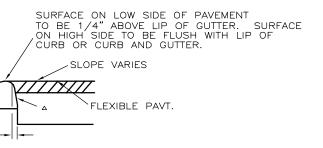
CONTRACTION JOINT IN CURB AND GUTTER



CURB AND GUTTER TYPES E AND F

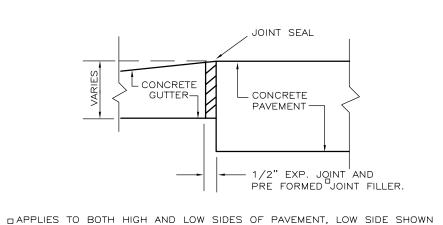


*WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN



A APPLIES TO BOTH HIGH AND LOW SIDES OF PAVEMENT, LOW SIDE SHOWN.

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

FOR USE ADJACENT TO CONCRETE OF FLEXIBLE PAVEMENT, CONCRETE SHOWN.
FOR DETAILS DEPICTING USAGE ADJACENT TO FLEXIBLE PAVEMENT, SEE DIAGRAM RIGHT,
EXPANSION JOINT, PERFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURB & GUTTER AND CONCRETE PAVEMENT ONLY, SEE DIAGRAM RIGHT.

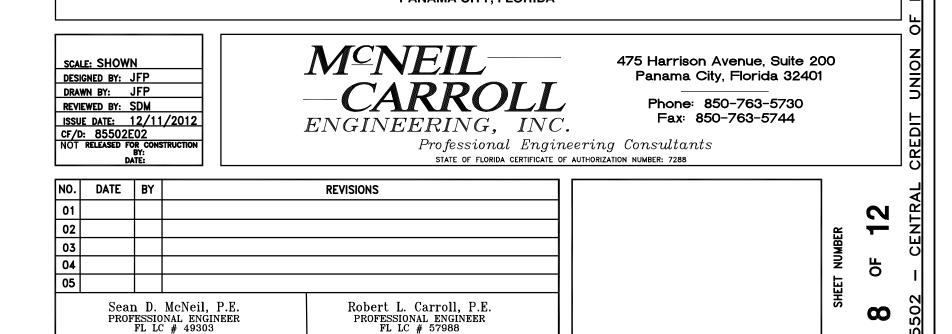
GENERAL NOTES

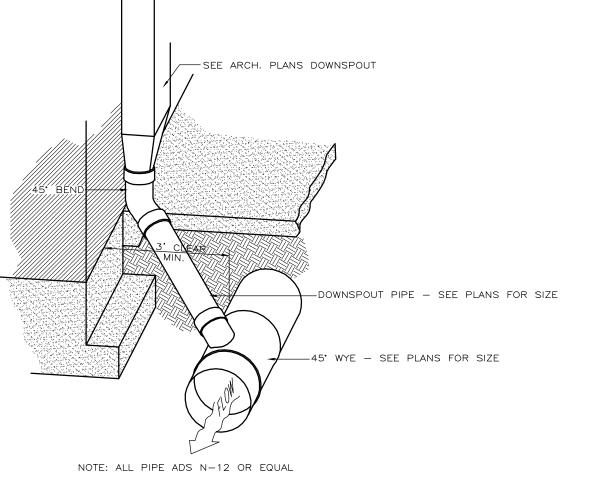
1. FOR CURB, GUTTER AND CURB AND GUTTER PROVIDE 1/8" - 1/4" CONTRACTION JOINTS AT 10' CENTERS (MAX.). CONTRACTION JOINTS ADJACENT TO CONCRETE PAVEMENT ON TANGENTS AND FLAT CURVES ARE TO MATCH THE PAVEMEN JOINTS, WITH INTERMEDIATE JOINTS NOT TO EXCEED 10' CENTERS. CURB, GUTTER AND CURB AND GUTTER EXPANSION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS. 2. ENDS OF CURBS TYPES B AND D SHALL TRANSITION FROM FULL TO ZERO

TYPE "F" CURB DETAIL NOT TO SCALE

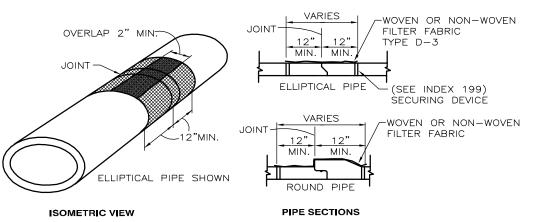
PERMIT PURPOSES ONLY

CONSTRUCTION DETAILS CENTRAL CREDIT UNION OF FLORIDA STATE ROAD 77 PANAMA CITY, FLORIDA





DOWNSPOUT DETAIL



COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE CULVERTS. FOR ALL PIPE TYPES — CONCRETE PIPE SHOWN

FILTER FABRIC JACKET DETAIL

SITE UTILITIES

CONTINUOUSLY ALONG THE BOTTOM OF PIPE

MATERIALS: WHERE GROUND IS FOUND UNSUITABLE TO SUPPORT PIPE, PROVIDE CRADLES OF 2500 PSI. CONCRETE FULL WIDTH OF TRENCH WITH TWO NO. 4 REINFORCING BARS

BACKFILL, UNLESS OTHERWISE NOTED, SHALL BE COARSE SAND, FINE GRAVEL OR EARTH HAVING A LOW PLASTICITY INDEX, FREE OF ROCKS, DEBRIS AND OTHER FOREIGN MATERIALS AND DEFINED AS ALL PASSING THROUGH A 3/8" SIEVE AND NOT MORE THAN TEN PERCENT (10%) BY VOLUME PASSING THROUGH A 200 MESH SIEVE.

UTILITY PIPING AND FITTINGS SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL CONFORM TO THE FOLLOWING: MANHOLES STRUCTURES SHALL BE SIZE AND TYPE INDICATED ON THE DRAWINGS AND SHALL BE CONSTRUCTED OF THE FOLLOWING: REINFORCED PRECAST CONCRETE MANHOLE SECTIONS INCLUDING CONCENTRIC OR ECCENTRIC CONES AND GRADE RINGS SHALL BE 4000 PSI. CONCRETE AND CONFORM TO ASTM C-478 OR AASHTO M-199. SECTIONS SHALL BE COMPLETE WITH 3/4" ROUND CAST IN PLACE

BRICK SHALL BE SOUND, HARD BURNED THROUGHOUT AND OF UNIFORM SIZE AND QUALITY AND SHALL BE IN ACCORDANCE WITH ASTM C-32, GRADE MS OR MM. CONCRETE MASONRY SHALL BE SOLID PRECAST SEGMENTAL CONCRETE MASONRY UNITS

IRON CASTING SHALL CONFORM TO ASTM A-48, CLASS 30. BEARING SURFACES BETWEEN CAST IRON FRAMES, COVERS, GRATES SHALL BE MACHINED, FITTED TOGETHER AND MATCH MARKED TO PREVENT ROCKING. SYSTEM IDENTIFYING LETTER 2" HIGH SHALL BE STAMPED OR CAST INTO ALL COVERS SO THAT THEY MAY BE PLAINLY VISIBLE. CASTING SHALL BE MANUFACTURED BY EAST JORDAN IRON WORKS, INC., NEENAH FOUNDRY COMPANY OR EQUAL. CONCRETE AND MASONRY MATERIALS FOR CONSTRUCTION OF SITE UTILITY STRUCTURES AND

PORTLAND CEMENT SHALL BE STANDARD BRAND OF PORTLAND CEMENT CONFORMING TO ASTM C-150, TYPE I OR II. FINE OR COARSE AGGREGATES FOR CONCRETE SHALL BE PER ASTM C-33. AGGREGATES SHALL BE WELL GRADED FROM FINE TO COARSE WITHIN LIMITS SPECIFIED IN ASTM C-33. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4". MAXIMUM SIZE OF CUARSE AGGREGATE SHALL BE 3/4.

AGGREGATE FOR CEMENT MORTAR SHALL BE CLEAN, SHARP SAND CONFORMING TO ASTM

C—144. GRADE SAND FROM COARSE TO FINE WITH 100% PASSING NO. 8 SIEVE, AND NOT OVER 10% TO 30% PASSING NO. 50 SIEVE. HYDRATED LIME SHALL COMPLY WITH ASTM C-207, TYPE S. WATER SHALL BE CLEAN AND FREE FROM DELETERIOUS MATERIALS.

REINFORCING STEEL FOR CONCRETE SHALL BE INTERMEDIATE GRADE NEW BILLET STEEL

FORMS FOR CONCRETE WORK SHALL BE WOOD, FORMS SHALL BE SUFFICIENT STRENGTH TO

PREVENT DEFORMATIONS UNDER LOAD AND TIGHT ENOUGH TO PREVENT LEAKAGE. FOUNDATIONS MAY BE POURED AGAINST EARTH WHERE CONDITIONS PERMIT. CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE COMPRESSIVE STRENGTH AFTER 28 DAYS OF 3000 PSI MINIMUM. MIX SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD. CONCRETE FILL BELOW GRADE FOR THRUST

CONTENT SHALL BE 6% + 1%. ADDITIVE SHALL BE USED IN STRICT ACCORDANCE WITH

READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94. TYPE M, AVERAGE COMPRESSIVE STRENGTH 2500 PSI. AT 28 DAYS. MORTAR MIX SHALL BE

MORTAR FOR PARGING SHALL CONSIST OF ONE PART PORTLAND CEMENT AND TWO PARTS BACKFILL SHALL BE SAME MATERIAL SPECIFIED FOR PIPE BEDDING. WHERE SERVICE OR

UTILITY LINES CROSS A STREET, BEDDING SHALL BE CARRIED TO FIVE FEET (5') BEHIND THE CURB, OR WHERE SIDEWALKS EXIST, TO THE SIDE OF THE SIDEWALK FARTHEST AWAY FROM

AND SEWER FORCE MAINS

FLUSHING REQUIREMENTS FOR WATER

BLOCKS, PIPE CRADLES ETC. MAY BE 2500 PSI. AT 28 DAYS.

FLUSHING TIME SHALL BE AT LEAST THAT AMOUNT OF TIME NEEDED TO FLUSH TWO TIMES THE PIPE VOLUME AFTER 3 FPS VELOCITY IS REACHED OR UNTIL CLEAR, WHICHEVER IS LONGER. MAXIMUM LENGTH OF PIPE BETWEEN FLUSHING ASSEMBLIES SHALL BE 5,000 FEET.

SEWER COLLECTION SYSTEM

POLY (VINYL CHLORIDE) PIPE (PVC): PLASTIC GRAVITY SEWER PIPE AND FITTINGS SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (PVC) MEETING AND/OR EXCEEDING ASTM SPECIFICATIONS D-3034 (LATEST EDITION).

PIPE LENGTHS SHALL NOT EXCEED 20 FEET AND PROVISIONS SHALL BE MADE AT EACH JOINT TO ACCOMMODATE EXPANSION AND CONTRACTIONS. COMPLY WITH REQUIREMENTS OF FS RR-F-621, FOR TYPE AND STYLE REQUIRED.

MATERIALS FOR SEWER FORCE MAINS: PVC PIPE FOR FORCE MAINS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-2241 FOR PRESSURE RATING OF 160 PSI 230 C (73 DEGREES F). PIPE JOINTS SHALL BE INTEGRAL BELL AND SPIGOT TYPE WITH RUBBER RING SEALING GASKET. THE PIPE BELL SHALL BE DESIGNED TO BE AT LEAST AS STRONG AS THE PIPE WALL. STANDARD LENGTHS SHALL BE 20 FEET, EXCEPT THAT 15% OF TOTAL FOOTAGE FOR A PARTICULAR PROJECT MAY BE RANDOM LENGTHS OF NOT LESS THAN 10 FEET EACH. EACH PIECE OF PIPE SHALL BE TESTED BY THE MANUFACTURER OF 6000 PSI FOR A MINIMUM OF 5 SECONDS. THE BELL SHALL BE TESTED WITH THE PIPE. ALL PIPE SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC., AND BY FACTORY MUTUAL AS APPROVED FOR USE IN UNDERGROUND MUNICIPAL WATER DISTRIBUTION SYSTEMS AND FIRE PROTECTION SYSTEM. CAST IRON OR DUCTILE IRON FITTINGS SHALL BE USED

CAST IRON FITTINGS SHALL BE MECHANICAL JOINT AND SHALL CONFORM TO ANSI SPECIFICATION A21.10 FOR SIZES 3 INCHES THROUGH 12 INCHES AND SHALL BE CLASS 250. FITTINGS 14 INCHES AND LARGER SHALL BE CLASS 150 AND SHALL BE OF THE DIMENSIONS AND METAL THICKNESSES AS SHOWN IN THE HANDBOOK OF CAST IRON PIPE AS PUBLISHED BY THE CAST IRON PIPE RESEARCH ASSOCIATION. CAST IRON FITTINGS MAY BE USED IN DUCTILE IRON OR CAST IRON LINES, EXCEPT WHERE SHOWN OTHERWISE ON

DUCTILE IRON FITTINGS SHALL BE DESIGNED FOR PRESSURE RATING OF 250 PSI AND SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.10. FITTING SHALL BE MECHANICAL JOINT. DUCTILE IRON FITTINGS MAY BE USED IN DUCTILE IRON OR CAST IRON LINES, EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.

THE INTERIOR AND EXTERIOR OF ALL CAST IRON AND DUCTILE IRON FITTINGS SHALL BE COATED WITH AN APPROVED BITUMINOUS COATING. AT THE CONTRACTOR'S OPTION, THE INTERIOR OF THE PIPE MAY BE CEMENT LINED IN ACCORDANCE WITH ANSI A21.4 IN LIEU

MATERIALS FOR CONCRETE MANHOLES: PRECAST OF CAST—IN—PLACE, AT CONTRACTOR'S OPTION. USE CONCRETE WHICH WILL ATTAIN A 28—DAY COMPRESSIVE STRENGTH OF 3000

INSPECTIONS AND TESTS: IT IS IMPERATIVE THAT ALL SEWERS AND MANHOLES BE BUILT PRACTICALLY WATERTIGHT AND THAT THE CONTRACTOR MUST ADHERE RIGIDLY TO THE SPECIFICATIONS FOR MATERIAL AND WORKMANSHIP. THE ALLOWABLE LIMIT OF GROUNDWATER INFILTRATION FOR THE GRAVITY SYSTEM OF NEW SEWERS OR ANY ONE TRUNK, OR INTERCEPTOR, SHALL BE IN COMPLETE ACCORDANCE WITH ASTM 425-71T AND SHALL NOT EXCEED A LIMIT OF INFILTRATION EQUAL TO 0.2

GAL/INCH DIAMETER/HOUR/100 LINEAR FEET OF PIPE. THE TEST WILL BE MADE BY MEASURING THE INFILTRATED FLOW OF WATER OVER A MEASURING WEIR SET UP IN THE INVERT OF THE SEWER, OR BY ALTERNATE METHOD

APPROVED BY THE ENGINEER, A KNOWN DISTANCE FROM A TEMPORARY BULKHEAD OR OTHER LIMITING POINT OF INFILTRATION. AFTER THE SEWER OF SEWERS HAVE BEEN PUMPED OUT, AND NORMAL INFILTRATION CONDITIONS PREVAIL, TESTS SHALL BE STARTED.

TESTS SHALL BE RUN CONTINUOUSLY FOR A PERIOD OF NOT LESS THAN THREE HOURS,

WITH WEIR READINGS TAKEN AT 20 MINUTE INTERVALS.

PRESSURE AND LEAKAGE TESTS OF SEWAGE FORCE MAIN PIPING

CONTRACTOR SHALL FURNISH ALL GAUGES, METERS, PRESSURE PUMPS, EQUIPMENT, FITTINGS, AND LABOR NEEDED TO TEST THE LINE. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE OF THE PIPE. CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO START OF TEST. ALL PIPE INSTALLED SHALL BE TESTED AND WRITTEN ACCEPTANCE ISSUED BY THE ENGINEER PRIOR TO CONNECTION OF NEW LINE TO EXISTING LINES.

THE CONTRACTOR MAY TEST THE SYSTEM WITH JOINTS EXPOSED OR BACKFILLING COMPLETE AT HIS OPTION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL WATER USED. CARE SHALL BE USED TO PREVENT BACKFLOW OF TEST WATER INTO POTABLE WATER SOURCE. POTABLE WATER SOURCE SHALL BE DISCONNECTED PRIOR TO PRESSURIZING TEST LINE. WATER USED DURING TEST SHALL BE TAKEN FROM A CONTAINER, NOT DIRECTLY FROM THE EXISTING WATER SYSTEM.

AT LEAST 24 HOURS PRIOR TO THE START OF THE PRESSURE AND LEAKAGE TEST, PRESSURE SHALL BE RAISED TO 150 PSIG AND HELD TO ALLOW ANY "SOIL CREEP" OR OTHER STRESS RELAXATION TO OCCUR. IF ANY PRESSURE REDUCTION OCCURS DURING THE 24 HOUR "SHAKEDOWN" PERIOD, REESTABLISH THE REQUIRED HYDROSTATIC TEST PRESSURE, THEN PROCEED WITH

THE PRESSURE REQUIRED FOR THE FIELD HYDROSTATIC PRESSURE TEST SHALL BE 150 PSI. THE CONTRACTOR SHALL PROVIDE TEMPORARY PLUGS AND BLOCKING NECESSARY TO MAINTAIN THE REQUIRED TEST PRESSURE. CORPORATION COCKS AT LEAST 3/4 INCHES IN DIAMETER, PIPE RISERS AND ANGLE GLOBE VALVES SHALL BE PROVIDED AT EACH PIPE DEAD—END AND HIGH POINTS IN ORDER TO BLEED AIR FROM THE LINE. DURATION OF PRESSURE TEST SHALL BE AT LEAST TWO HOURS. ALL LEAKS EVIDENT AT THE SURFACE SHALL BE REPAIRED AND LEAKAGE ELIMINATED REGARDLESS OF TOTAL LEAKAGE AS SHOWN BY TEST. LINES WHICH FAIL TO MEET TESTS SHALL REPAIRED AND RETESTED AS NECESSARY UNTIL TEST REQUIREMENTS ARE COMPLIED WITH. DEFECTIVE MATERIALS, PIPES, VALVES AND ACCESSORIES SHALL BE REMOVED AND REPLACED. THE PIPE LINES SHALL BE TESTED IN SUCH SECTION AS MAY BE DIRECTED BY THE ENGINEER BY SHUTTING VALVES OR INSTALLING TEMPORARY PLUGS AS REQUIRED. THE LINE SHALL BE FILLED WITH WATER, ALL AIR REMOVED, AND TEST PRESSURE SHALL BE MAINTAINED IN THE PIPE FOR THE ENTIRE TEST PERIOD BY MEANS OF A GASOLINE OR ELECTRIC DRIVEN TEST PUMP TO BE FURNISHED BY THE CONTRACTOR. ACCURATE MEANS SHALL BE PROVIDED FOR MEASURING THE WATER REQUIRED TO MAINTAIN THIS PRESSURE. THE AMOUNT OF WATER REQUIRED IS A MEASURE OF THE LEAKAGE.

NO PIPE INSTALLATION WILL BE ACCEPTED UNTIL THE LEAKAGE (EVALUATED ON A PRESSURE BASIS OF 150 PSI) IS LESS THAN 2.2 GALLONS PER 24 HOURS PER THOUSAND FEET PER INCH NOMINAL DIAMETER. THE FOLLOWING TABULATES THE

ALLOWABLE LEAKAGE PER 1000 FT OF PIPELINE (IN GALLONS)

AMOUNT OF WATER REQUIRED IS A MEASURE OF THE LEAKAGE.

OF TEST _4_ _6_ _10_ _12_ 1 HOUR 0.28 0.55 0.37 0.74 0.55 1.10 0.74 1.47 0.92 1.84 WHERE ANY SECTION OF A MAIN IS PROVIDED WITH CONCRETE REACTION BACKING THE HYDROSTATIC PRESSURE TEST SHALL NOT BE MADE UNTIL AT LEAST FIVE (5) DAYS HAVE ELAPSED AFTER THE CONCRETE REACTION BACKING WAS INSTALLED. IF HIGH EARLY—STRENGTH CEMENT IS USED IN THE CONCRETE REACTION BACKING, THE HYDROSTATIC PRESSURE TEST SHALL NOT BE MADE UNTIL AT LEAST THREE (3) DAYS HAVE ELAPSED.

LEAKAGE TESTS FOR GRAVITY SEWER

LINES SHALL BE TESTED FOR LEAKAGE BY LOW PRESSURE AIR TESTING. LOW PRESSURE AIR TESTING CONCRETE PIPES SHALL BE AS PRESCRIBED IN ASTM C 828. LOW PRESSURE AIR TESTING FOR PVC PIPE SHALL BE AS PRESCRIBED IN ASTM C 924, AFTER CONSULTATION WITH THE PIPE MANUFACTURER. VISIBLE LEAKS ENCOUNTERED SHALL BE CORRECTED REGARDLESS OF LEAKAGE TEST RESULTS. WHEN LEAKAGE EXCEEDS THE MAXIMUM AMOUNT SPECIFIED, SATISFACTORY CORRECTION SHALL BE MADE AND RETESTING ACCOMPLISHED. TESTING, CORRECTION, AND RETESTING SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

ASTM F1417 TABLE 1
MINIMUM SPECIFIED TIME REQUIRED FOR 1.0 PSIG PRESSURE DROP FOR SIZE AND LENGTH OF PIPE INDICATED FOR Q=0.0015

. SEE PRACTICE UNI-B-6-90. . Consult with PIPE and appurtenance manufacturer for maximum test pressure FOR PIPE SIZE GREATER THAN 30IN DIA.

PIPE DIAMETER	MINIMUM TIME	FOR	FOR FOR		SPECIFICATION TIME FOR LENGTH (L) SHOWN, MIN:S							
IN.	MIN:S	MINIMUM TIME,FT	LONGER LENGTH,S	100FT	150FT	200FT	250FT	300FT	350FT	400FT	450FT	
4	3:46	597	0.380L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46	
6	5:40	398	0.854L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24	
8	7:34	298	1.520L	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24	
10	9:26	239	2.374L	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48	
12	11:20	199	3.418L	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38	
15	14:10	159	5.342L	14.10	14.10	17:48	22:15	26:42	31:09	35:36	40:04	
18	17:00	133	7.692L	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41	
21	19:50	114	10.470L	19.50	26:10	34:54	43:37	52:21	61:00	69:48	78:31	
24	22:40	99	13.674L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33	
27	25:30	88	17.306L	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48	
30	28:20	80	21.366L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15	
33	31:10	72	25.852L	43:05	64:38	86:10	107:43	129:16	150:43	172:21	193:53	
36	34:00	66	30.768L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46	

DRAINAGE AS-BUILT DRAWINGS AND INFORMATION CHECKLIST

FOLLOWING IS A LIST OF INFORMATION THAT IS TO BE VERIFIED AND SUBMITTED BY THE REGISTERED PROFESSIONAL IN SUPPORT OF THE "AS-BUILT CERTIFICATION."

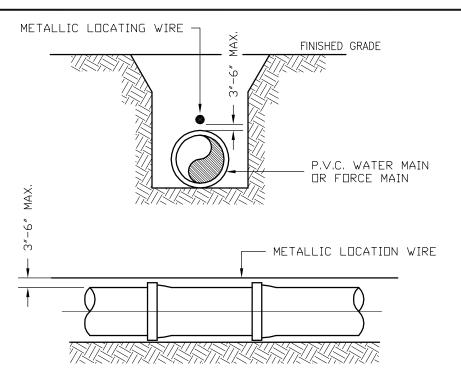
- 1. AS-BUILT DRAWINGS ARE TO BE BASED ON THE CONSTRUCTION DRAWINGS PERMITTED BY THE NWFWMD, AND REVISED AS NECESSARY TO REFLECT ANY CHANGES MADE DURING CONSTRUCTION. NOTION.

 NOTIONAL DESIGN AND CONSTRUCTED CONDITION MUST BE CLEARLY SHOWN. THE PLANS NEED TO BE CLEARLY LABELED AS "AS—BUILT" OR "RECORD" DRAWINGS. ALL SURVEYED DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED AND SIGNED, DATED, AND SEALED BY A REGISTERED PROFESSIONAL. THE FOLLOWING INFORMATION, AT A MINIMUM, SHALL BE VERIFIED ON
- THE AS-BUILT DRAWINGS, AND SUPPLEMENTAL DOCUMENTS, IF NEEDED A.DISCHARGE STRUCTURES -- LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL, INCLUDING
- WEIRS, ORIFICES, GATES, PUMPS, PIPES, AND OIL AND GREASE SKIMMERS;
- B.SIDE BANK AND UNDERDRAIN FILTERS, OR EXFILTRATION TRENCHES —— LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL, INCLUDING CLEAN—OUTS, PIPES, CONNECTIONS TO CONTROL STRUCTURES AND POINTS OF DISCHARGE TO RECEIVING WATERS;
- C.STORAGE AREAS FOR TREATMENT AND ATTENUATION -- DIMENSIONS, ELEVATIONS CONTOURS OR CROSS—SECTIONS OF ALL, SUFFICIENT TO DETERMINE STAGE—STORAGE RELATIONSHIPS OF THE STORAGE AREA AND THE PERMANENT POOL DEPTH AND VOLUME BELOW THE CONTROL ELEVATION FOR NORMALLY WET SYSTEMS;
- D.SYSTEM GRADING -- DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES OR CROSS-SECTIONS TO DETERMINE CONTRIBUTING DRAINAGE AREAS, FLOW DIRECTIONS, AND CONVEYANCE OF RUNOFF TO THE SYSTEM DISCHARGE POINTS)S);
- E.CONVEYANCE -- DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES OR CROSS SECTIONS OF SYSTEMS UTILIZED TO DIVERT OFF—SITE RUNOFF AROUND OR THROUGH THE NEW SYSTEM; F.WATER LEVELS -- EXISTING WATER ELEVATIONS(S) AND THE DATE DETERMINED;
- G.BENCHMARK(S) -- LOCATION AND DESCRIPTION (MINIMUM OF ONE PER MAJOR WATER CONTROL STRUCTURE). SUBMIT THE FINAL SUBDIVISION PLAT OR OTHER LEGAL DOCUMENTS, AS RECORDED IN THE COUNTY PUBLIC RECORDS, SHOWING DEDICATED RIGHTS—OF—WAY, EASEMENT LOCATIONS, AND SPECIAL USE AREAS THAT ARE RESERVED FOR WATER MANAGEMENT PURPOSES AND CONTINUING
- 3. ADDITIONAL INFORMATION WILL BE SHOWN ON THE AS-BUILT DRAWINGS OTHERWISE PROVIDED AS VERIFY AND SUPPORT THE AS-BUILT CERTIFICATION (EXAMPLE: HOMEOWNER'S ASSOCIATION FINAL DOCUMENTS AND OTHER ITEMS REQUIRED BY PERMIT CONDITIONS).

FINISHED GRADE -

ÍĤREADED END PLUC

OPERATION AND MAINTENANCE;

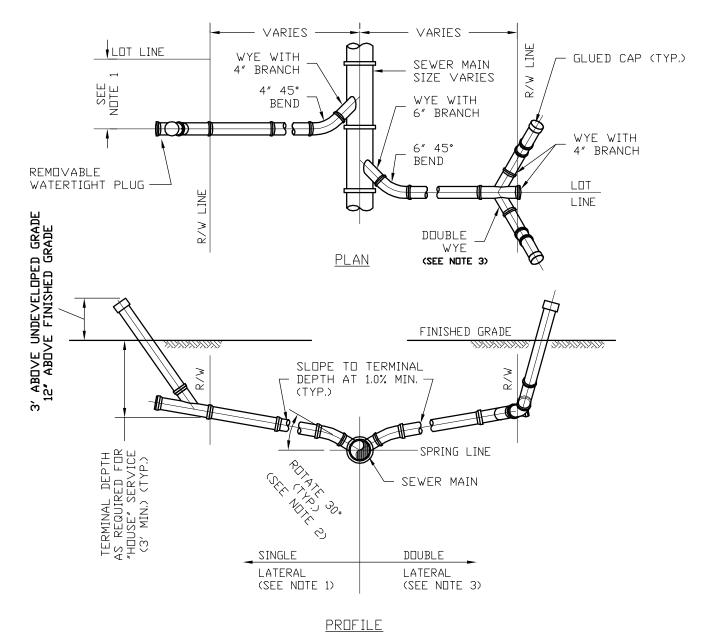


- 1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (10 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE.
- AND BE CAPABLE OF EXTENDING 24" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION. 3. ALL SPLICES SHALL BE MADE USING A WATER-TIGHT SEALING

2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX

PVC PIPE LOCATING WIRE DETAIL

METHOD APPROVED BY THE CITY.



NOTES:

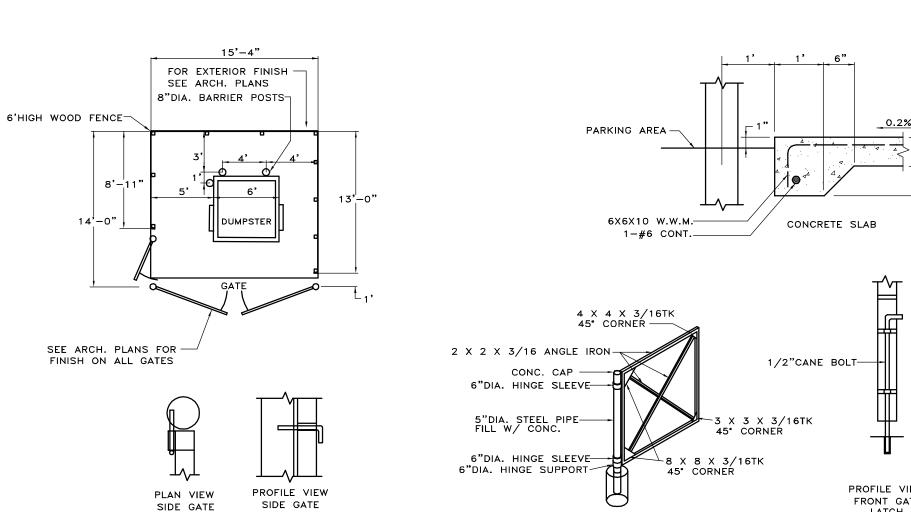
- 1. LOCATE SINGLE LATERAL AS NEAR TO CENTER OF
- LOT AS POSSIBLE
- 2. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
- 3. UPON CITY APPROVAL, DOUBLE SERVICE LATERALS SHALL ONLY BE PERMITTED ON TAPS TO OVERSIZED GRAVITY MAINS, LATERALS

SERVICE LATERAL DETAIL

PROFILE VIEW

FRONT GATE

AND WHERE EXISTING ROAD PAVEMENT MUST BE CUT.

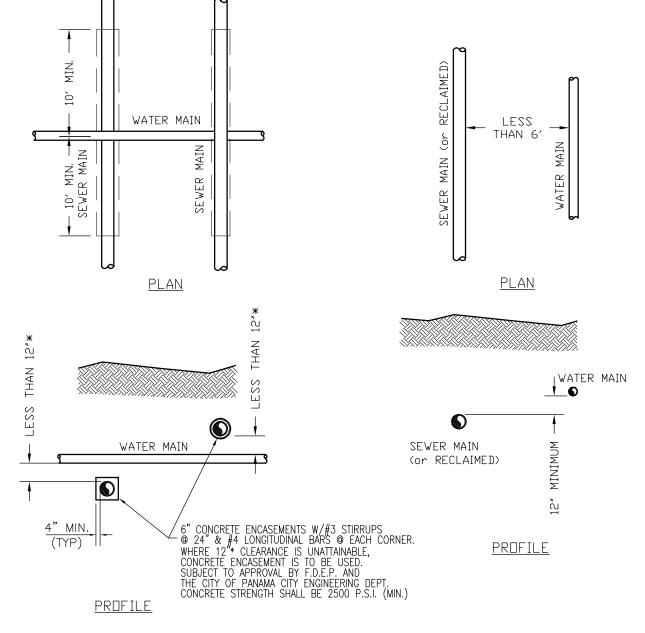


LATCH

LATCH

DUMPSTER DETAIL

FRONT GATE



*" Location of PWS Mains,"

Sean D. McNeil, P.E.

Water mains to provide a horizontal distance of (3) three feet between the water main and any vacuum-type sanitary sewer, storm sewer, stormwater force main, or pipeline conveying public-access reclaimed water and a horizontal distance of (6) six feet between the water main and any gravity or pressure-type sanitary sewer, wastewater force main, or pipeline conveying non-public-access reclaimed water.

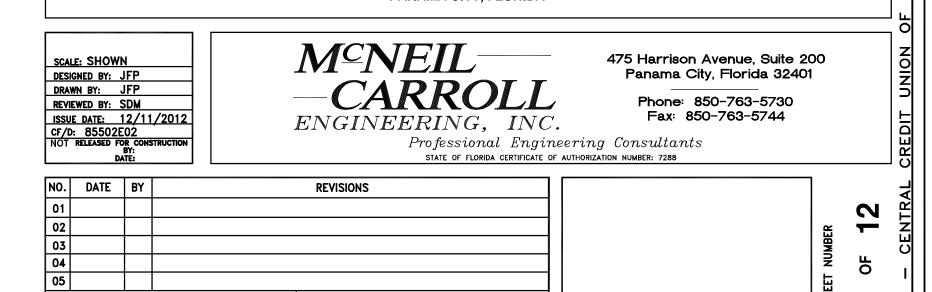
Water mains crossing any gravity or vacuum-type sanitary sewer or storm sewer may be laid so the water main crosses (6) six inches above or (12) twelve inches below the other pipeline, and water mains crossing any pressure type sanitary sewer, stormwater or wastewater force main, or pipeline conveying reclaimed water laid so the water main crosses only (12) twelve inches above or below the other pipeline.

> WATER & SEWER MAIN CROSSING/ **SEPARATION DETAIL**

NOT TO SCALE

PERMIT PURPOSES ONLY

CONSTRUCTION DETAILS CENTRAL CREDIT UNION OF FLORIDA STATE ROAD 77 PANAMA CITY, FLORIDA



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Robert L. Carroll, P.E.

NOTE: SEE SEWER SIZE IN PLANS

VALVE BOX COVER~

- 45° BEND

- CONCRETE

CONCRETE

THREADED END PLUG OR CONTINUATION

SEE PLANS FOR SIZE PIPE

CLEANOUT DETAIL

NOT TO SCALE

WATER DISTRIBUTION SYSTEM

SHALL BE CAST IRON WITH MECHANICAL.

PRODUCTS: PROVIDE ELLS, TEES, REDUCING TEES, WYES, COUPLINGS, AND OTHER REQUIRED PIPING ACCESSORIES OF SAME TYPE AND CLASS OF MATERIALS AS CONDUIT, OR OF MATERIAL HAVING EQUAL OR SUPERIOR PHYSICAL AND CHEMICAL PROPERTIES AS ACCEPTABLE TO THE ENGINEER.

UNPLASTICIZED POLYVINYL CHLORIDE (PVC PIPE SHALL HAVE AN INTEGRATED BELL—TYPE JOINT DESIGNED FOR CONVEYING POTABLE WATER UNDER PRESSURE. RING-TYPE NEOPRENE GASKETS SHALL BE PROVIDED IN RECESSED IN THE BELLS TO MAKE JOINTS WATER TIGHT. ALL PIPES SHALL BE SUITABLE FOR USE AT MAXIMUM HYDROSTATIC PRESSURES OF 200 PSI AT 75 DEGREES F AND MEETING AND/OR EXCEEDING THE MINIMUM REQUIREMENTS OF AWWA C-900-07 MADE TO (4"-8" DR18, 10" AND GREATER DR25) DIMENSIONS. MAXIMUM LAYING LENGTHS SHALL BE 40 FEET WITH MANUFACTURER'S OPTION O SUPPLY UP TO 15 PERCENT RANDOMS (MINIMUM LENGTH EQUALS 10 FT.). ALL FITTINGS

PIPE FITTINGS SHALL BE ASSEMBLED WITH A NON-TOXIC LUBRICANT AS RECOMMENDED BY THE MANUFACTURER. PVC PIPE SHALL BE AS MANUFACTURED BY THE U.S. PIPE COMPANY, THE CERTAIN-TEED PRODUCTS CORPORATION, THE JOHNS-MANSVILLE COMPANY, THE ETHYL CORPORATION, OR APPROVED EQUAL.

PROVIDE VALVES AND FLOW CONTROL DEVICES AS INDICATED:

MINIMUM WORK PRESSURE, 160 PSI, UNLESS OTHERWISE INDICATED.

GATE VALVES: STANDARD SHUT-OFF VALVES WITH MAXIMUM WORK PRESSURE CAST INTO BODY, OUTSIDE-SCREW-AND-YOKE TYPE COMPLYING WITH AWWA C-500. ALL VALVES SHALL FOUR-INCHES AND OVER: SHALL BE CAST-IRON BODY, FULLY BRONZE MOUNTED DOUBLE-

DISC, PARALLEL SEAL VALVES WIDE FLANGE OR SPIGOT END DEPENDING ON INSTALLATION. FLANGED GATE VALVES SHALL BE PROVIDED WITH 125 POUND AMERICAN STANDARD FLANGES. ALL VALVES TO BE INSTALLED ABOVE THE GROUND SHALL BE FITTED WITH WHEEL—TYPE HAND OPERATORS. ALL VALVES TO BE SET BELOW GRADE SHALL BE FITTED WITH HUB—TYPE OPERATORS AND SHALL HAVE A CAT—IRON VALVE BOX INSTALLED CONCENTRICALLY

UNDER FOUR—INCHES: GATE VALVES UNDER FOUR—INCHES SHALL BE IRON OR BRONZE BODY, SOLID WEDGE VALVES EQUIPPED WITH OPERATING HAND WHEELS. ALL ECCENTRIC VALVES 10-INCHES OR LARGER SHALL BE GEAR OPERATED WITH HAND WHEELS FOR ABOVE GROUND VALVES AND HUB OPERATED FOR BELOW GROUND VALVES. ALL ECCENTRIC VALVES 8-INCHES AND SMALLER SHALL BE LEVEL OPERATED FOR ABOVE GROUND VALVES AND HUB OPERATED FOR BELOW GROUND VALVES. ALL HUB OPERATED UNITS SHALL BE PROVIDED A CAST-IRON VALVES BOX AND COVER. CHECK VALVES: THE CHECK VALVES OVER THREE INCHES SHALL BE IRON BODY, BRONZE MOUNTED, HORIZONTAL SWING CHECK WITH FLANGED ENDS. ALL WORK PARTS SHALL BE SPRING LOCATED TO PREVENT SLAMMING. THE CHECK VALVES SHALL BE CLOW F-2955, OR

CHECK VALVES UNDER THREE INCHES SHALL BE SCREWED END, BRONZE BODY, SILENT CHECK VALVES AS MANUFACTURED BY CRANE COMPANY, NO. 34 OR APPROVED EQUAL. PROVIDE ANCHORAGES FOR TEE, PLUGS, CAPS, AND BENDS.

AFTER INSTALLATION, APPLY A FULL COAT OF ASPHALT OR OTHER ACCEPTABLE CORROSION—RETARDING MATERIAL TO SURFACES OF RODS AND CLAMPS.

CLAMPS, STRAPS AND WASHERS: STEEL ANSI/ASTM A-506

RODS: STEEL, ANSI/ASTM A-575

ROD COUPLINGS: MALLEABLE IRON, ANSI/ASTM A-197 BOLTS: STEEL, ANSI/ASTM A-307

CAST IRON WASHERS: ANSI/ASTM A-126, CLASS A

WATER SERVICE IDENTIFICATIONS: PLASTIC LINE MARKS, NOMENCLATURE "CAUTION, BURIED FLEXIBLE COUPLINGS: STEEL MIDDLE RING, TWO STEEL FOLLOWER RINGS, TWO RESILIENT GASKETS AND STEEL BOLTS. DRESSER TYPE 38 OR APPROVED EQUAL.

INSPECTION AND HYDROSTATIC TESTING: AFTER THE PIPE HAS BEEN LAID AND BACKFILLED AS SPECIFIED EACH VALVED SECTION OF NEWLY LAID PIPE SHALL BE SUBJECTED TO THE DURATION OF EACH PRESSURE TEST SHALL BE AT LEAST TWO HOURS OR UNTIL THE LINE HAS BEEN COMPLETELY INSPECTED FOR VISIBLE LEAKS. PERMISSIBLE LEAKAGE: NO PIPE INSTALLATION WILL BE ACCEPTABLE UNTIL OR UNLESS THIS

LEAKAGE (EVALUATED ON A PRESSURE BASIS OF 150 PSI) IS LESS THAN 4 U.S. GALLONS PER 24 HOURS PER THOUSAND FEET PER INCH NOMINAL DIAMETER IN ACCORDANCE WITH

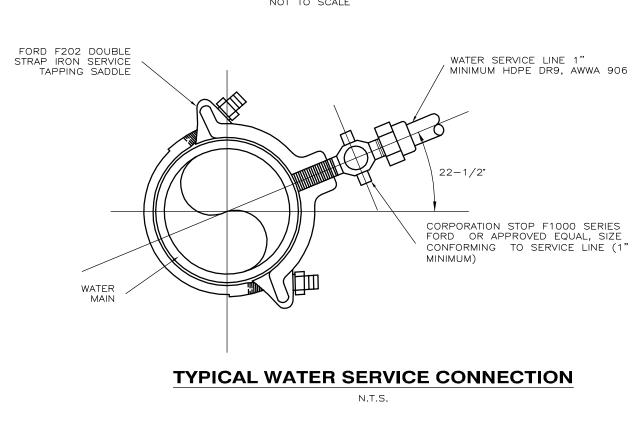
DISINFECTION SHALL BE AFTER THE DISTRIBUTION SYSTEM HAS BEEN TESTED TO THE SATISFACTION OF THE ENGINEER AND SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATION C-651 WHICH PROVIDES FOR THE INJECTION OF A 50 PPM SOLUTION OF IN THE PROCESS OF CHLORINATING WATER PIPE, ALL VALVES OR OTHER APPURTENANCES SHALL BE OPERATED WHILE THE PIPE LINE IS FILLED WITH CHLORINATING AGENT.

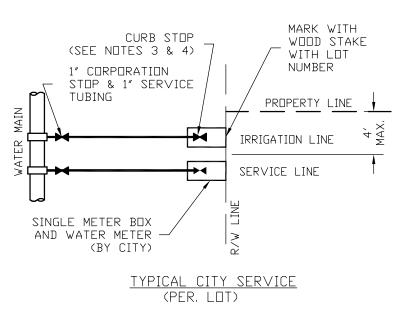
WATER VALVES 12" AND LESS SHALL BE EPOXY COATED RESILIENT SEAT GATE VALVE.

MAIN PIPE	HOF	RIZ. B	ENDS	TEES					PLUGS			
SIZE	90°	45°	22.5°		SIZ		NGTH		SIZE LENGTH			
24	90	38	18	X24/77	X20 139	X16 94	X12 40	X10 6	X20 64	X16 117	X12 158	214
20	78	32	15	X20/ 148	X16/ 105	X12 56	X10 25	X8 0	X16 65	X12 115	X10 149	184
16	66	27	13	X16/7	X12 70	X10 42	X8 12		X12 64	X10 90	X8 111	151
12	51	22	10	X12/83	X10 59	X8 32	X6 0		X10 34	X8 62	X6 86	118
10	44	18	9	X10/66	X8 41	X6 8			X8 33	X6 61	X4 81	100
8	37	15	/	50	X6 21	X4 0			X6 35	X4 59		83
6	29	12		30	X4 0				X4 32			63
4	21	8	4	X4 14								45

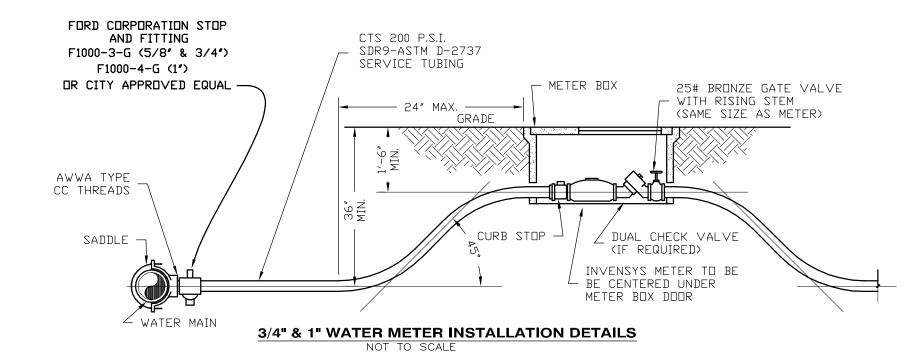
- 1.) RESTRAIN TO NEXT FULL JOINT BEYOND GIVEN LENGTH.
- 2.) RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
- 3.) ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
- 4.) ALL VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
- 5.) PIPE SIZES ARE GIVEN IN INCHES.
- 6.) PIPE LENGTHS ARE GIVEN IN FEET.
- 7.) LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
- 8.) THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON THE USE OF LIGHTLY COMPACTED CLEAN SAND WITH AT LEAST A 95% COARSE PARTICLE CONTENT. ACTUAL SOIL CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED

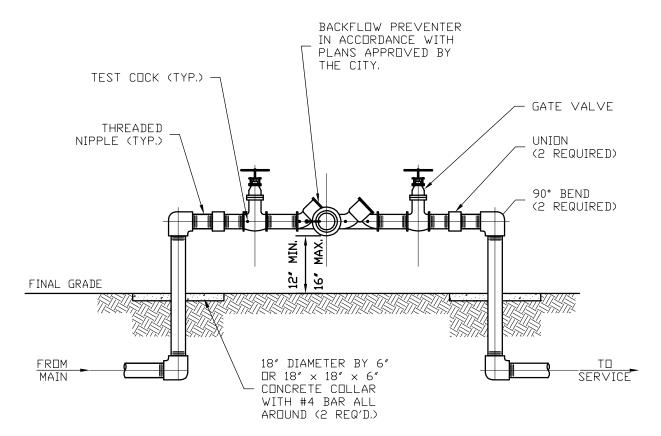
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE





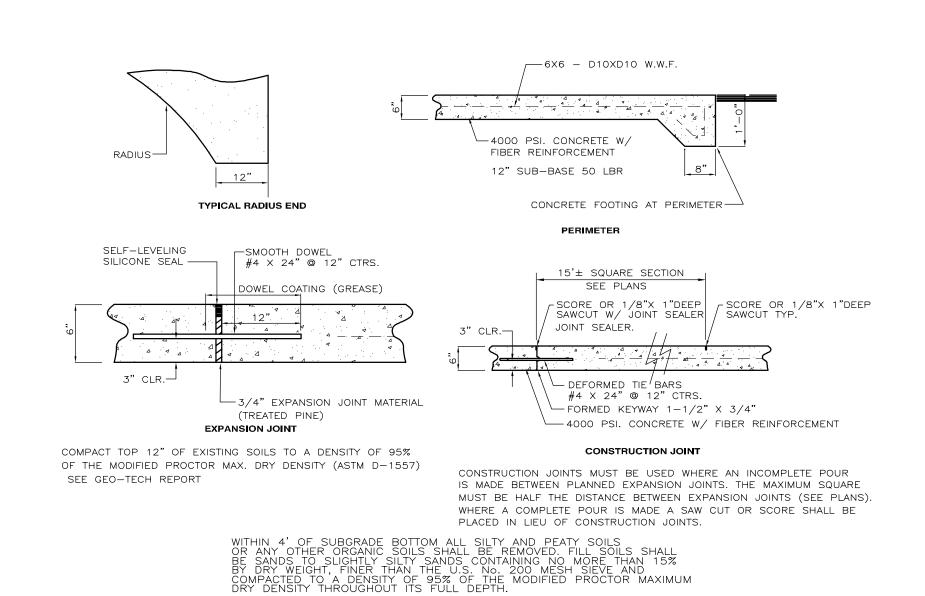
- 1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK (GRIP) JOINT TYPE CONNECTIONS.
- 2. NO SERVICE LINE SHALL BE CONSTRUCTED BENEATH OR TERMINATE UNDER A DRIVEWAY.
- 3. EACH SERVICE SHALL TERMINATE AT A CURB STOP IN A
- STANDARD CITY METER BOX.
- 4. CURB STOP SHALL BE A FORD BALL METER VALVE B43-332W-G, B43-444W-G OR CITY APPROVED EQUAL.
- 5. ALL SERVICE TAPS TO BE LOCATED IN FIELD. TAPS WILL NOT BE SET IN DRAINAGE SWALES, EASEMENTS OR SIDEWALKS.
- 6. METER BOX SHALL BE SOUTHERN METER BOX TH 1-1/2-B WITH C.I. LID W/ 2" HOLE (OR CITY APPROVED EQUAL)
- 7. ALL DUAL WATER SERVICES FOR LOTS ON THE OPPOSITE SIDE OF THE STREET FROM THE WATER MAIN SHALL BE INSTALLED IN A SINGLE 4" PVC OR HDPE CASING.





- NOTES:
- 1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 GALVANIZED STEEL OR BRASS.
- 2. PROVIDE PROTECTION AGAINST FREEZING.
- 3. TWO PIPE SUPPORTS REQUIRED.
- 4. ALL ITEMS ABOVE GRADE SHALL HAVE TWO COATS OF APPROVED RUST RESISTANT BLUE ENAMEL PAINT.

BACKFLOW PREVENTER



CONCRETE PAVEMENT DETAIL

NOT TO SCALE

MAIN | HORIZ. BENDS REDUCERS PLUGS 90° | 45° | 22.5 90 38 214 184 151 118 44 18 100 83 63

- RESTRAINED JOINT PIPING SHALL BE USED FOR ALL THRUST RESTRAINS. THE ADJACENT SCHEDULE GIVES MINIMUM PIPE LENGTHS (FT) TO BE RESTRAINED ON EACH SIDE OF ALL FITTINGS. ALL CALCULATIONS ARE BASED ON 20' PIPE LENGTHS. THIS INCLUDES ALL MAIN RUNS ON TEES.
 CONCRETE THRUST BLOCKS SHALL NOT BE USED UNLESS DIRECTED BY THE ENGINEER.
 SOME PIPE RESTRAINT REQUIREMENTS ARE SHOWN IN THE PLANS FOR SPECIFIC CIRCUMSTANCES.
 ALL 45' AND 22-1/2' COMBINATIONS BENDS AND 22-1/2' AND 11-1/4' COMBINATION BENDS SHALL BE TREATED AS 90' BENDS AND AS BENDS, RESPECTIVELY, FOR RESTRAINED LENTGHS.

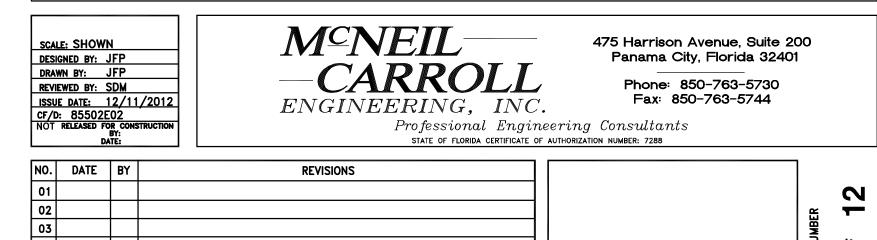
- 5. ALL FITTINGS AND RESTRAINED JOINTS MUST BE VISUALLY INSPECTED AND APPROVED BY THE ENGINEER
- BEFORE COVERED. 6. CONTRACTOR SHALL INSTALL BELL HARNESS RESTRAINTS ON ALL EXISTING PIPE AT TIE IN LOCATIONS TO ACCOMMODATE THE THRUST RESTRAINT SCHEDULE.
- 7. ALL CAPS AND PLUGS SHALL BE RESTRAINED. 8. ALL TIE—INS TO EXISTING WATER MAINS AND FORCE MAINS, SHALL BE TREATED LIKE A 90° BEND (NOY LIKE
- TEES) AND SHALL BE RESTRAINED ACCORDINGLY.

 9. CONTRACTOR SHALL INSTALL A MINIMUM OF 20' OF RESTRAINED JOINT PIPE ON EACH SIDE OF ALL VALVES, SMALL SIDE OF ALL REDUCERS AND ON THE MAIN RUN OF ALL TEES.

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE

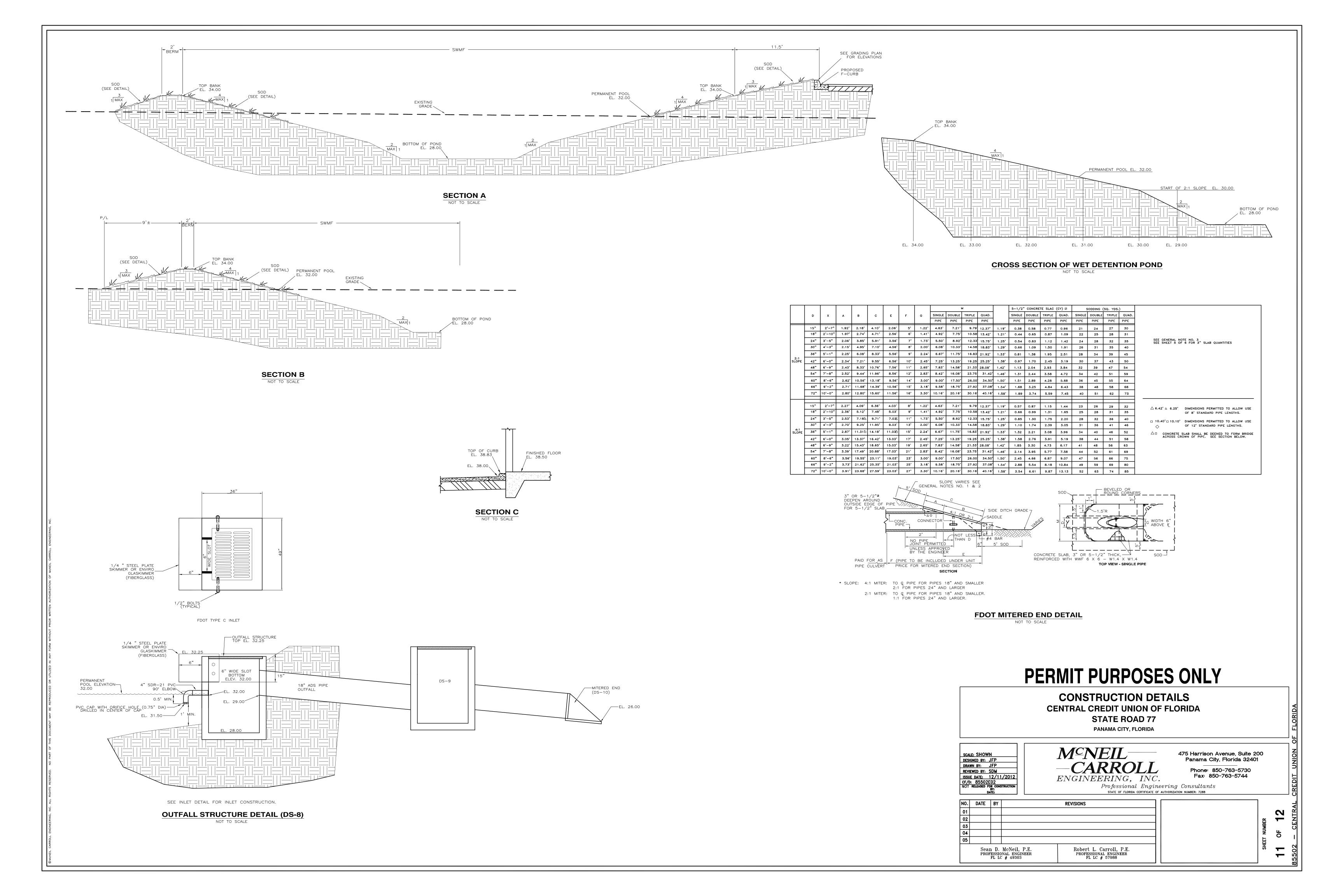
PERMIT PURPOSES ONLY

CONSTRUCTION DETAILS CENTRAL CREDIT UNION OF FLORIDA STATE ROAD 77 PANAMA CITY, FLORIDA



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Robert L. Carroll, P.E. Sean D. McNeil, P.E.



ASPRALITO CONCRETE PAVING

PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, ETC. NECESSARY AND INCIDENTAL TO THE COMPLETION OF ALL PAVEMENT AS SHOWN ON THE DRAWINGS AND AS SPECIFIED

SUBMIT A "LETTER OF INTENT" FOR THE FOLLOWING: ASPHALT PAVING MATERIAL AND MIX DESIGN. PROVIDE COPIES OF MATERIALS CERTIFICATES SIGNED BY MATERIAL PRODUCER AND CONTRACTOR, CERTIFYING THAT EACH MATERIAL ITEM COMPLIES WITH, OR EXCEEDS, SPECIFIED REQUIREMENTS. WEATHER LIMITATIONS: APPLY PRIME AND TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50 DEGREES F. (10 DEGREES C), AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35 DEGREES F. (1 DEGREE C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS AN EXCESS OF MOISTURE. CONSTRUCT ASPHALT CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40 DEGREES F. (4 DEGREES C), AND WHEN BASE IS DRY. SURFACE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30 DEGREES F. (-1 DEGREE C) AND RISING.

GRADE CONTROL: ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS. THE SUBCONTRACTOR SHALL WARRANT ALL ASPHALT PAVING AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO YEARS.

PRODUCTS: USE LOCALLY AVAILABLE MATERIALS AND GRADATIONS WHICH EXHIBIT A SATISFACTORY RECORD OF PREVIOUS INSTALLATIONS. AGGREGATE: CRUSHED STONE, CRUSHED GRAVEL, AND SHARP-EDGED NATURAL SAND. MAXIMUM AGGREGATE SIZE SHALL BE NO GREATER THAN ONE—HALF OF THE DESIGN THICKNESS OF THE WEARING OR BINDER COURSE.

SURFACE PREPARATION: PROOF ROLL PREPARED BASE SURFACE TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTION. DEFICIENT BASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING. PRIME COAT: APPLY AT RATE OF 0.2 TO 0.5 GAL. PER SQ. YD., OVER COMPACTED BASE. APPLY MATERIAL TO PENETRATE AND SEAL, BUT NOT FLOOD SURFACE. CURE AND DRY AS LONG AS NECESSARY TO ATTAIN PENETRATION AND EVAPORATION OF VOLATILE.

TACK COAT: APPLY TO CONTACT SURFACE OF PREVIOUSLY CONSTRUCTED ASPHALT OR PORTLAND CEMENT CONCRETE AND SURFACES ABUTTING OR PROJECTING INTO ASPHALT CONCRETE PAVEMENT. DISTRIBUTE AT RATE OF 0.05 TO 0.51 GAL. PER SQ. YD. OF ALLOW TO DRY UNTIL AT PROPER CONDITION TO RECEIVE PAVING.

ASPHALT CONCRETE MIX: THIS ITEM SHALL CONSIST OF A WEARING SURFACE CONSTRUCTED THE MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH THOSE SET FORTH FOR ASPHALTIC CONCRETE IN THE LATEST F.D.O.T. EDITION OF THE STANDARD SPECIFICATIONS. THE ASPHALTIC CEMENT SHALL MEET THE REQUIREMENTS OF AASHTO SPECIFICATIONS M-20, VISCOSITY GRADE AC-20 (PENETRATION GRADE 60-70).

JOB MIX FORMULA: THE MARSHALL TESTING WILL BE USED IN ESTABLISHING THE JOB MIX FORMULA AND FOR CONTROL TESTING THROUGHOUT THE WORK. THE DENSITY OF FIELD SAMPLES SHALL NOT BE LESS THAN 95% OF THE MARSHALL LABORATORY COMPACTED MIXTURE COMPOSED OF THE SAME MATERIALS IN LIKE

THE THICKNESS OF THE SURFACE SHALL BE AS SPECIFIED IN THE SITE WORK PLANS. THIS REQUIREMENT SHALL BE CHECKED BY CORES AND WHERE A DEFICIENCY OF MORE THAN 1/4" EXISTS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT THE DEFICIENCY EITHER BY REPLACING THE FULL THICKNESS OR OVERLAYING THE AREAS TO THE SATISFACTION OF THE ENGINEER.

PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF. SPREAD MIXTURE AT MINIMUM TEMPERATURE OF 225 DEGREES F. (107 DEGREES C). PLACE IN STRIPS NOT LESS THAN 10' WIDE, UNLESS OTHERWISE ACCEPTABLE TO THE ENGINEER. AFTER FIRST STRIP HAS BEEN PLACED AND ROLLED, PLACE SUCCEEDING STRIPS AND EXTENDED ROLLING TO OVERLAP PREVIOUS STRIPS. COMPLETE BASE COURSE FOR A SECTION BEFORE PLACING SURFACE COURSE.

MAKE JOINTS BETWEEN OLD AND NEW PAVEMENTS, OR BETWEEN SUCCESSIVE DAYS' WORK, TO ENSURE CONTINUOUS BOND BETWEEN ADJOINING WORK. CLEAN CONTACT SURFACES AND

BEGIN ROLLING WHEN MIXTURE WILL BEAR ROLLER WEIGHT WITHOUT EXCESSIVE DISPLACEMENT.

ACCOMPLISH BREAKDOWN OR INITIAL ROLLING IMMEDIATELY FOLLOWING ROLLING OF JOINTS ND OUTSIDE EDGE. CHECK SURFACE AFTER BREAKDOWN ROLLING, AND REPAIR DISPLACED AREAS BY LOOSENING AND FILLING, IF REQUIRED, WITH HOT MATERIAL. CONTINUE SECOND ROLLING UNTIL MIXTURE HAS BEEN THOROUGHLY COMPACTED. PERFORM FINISH ROLLING WHILE MIXTURE IS STILL WARM ENOUGH FOR REMOVAL OF ROLLER MARKS. CONTINUE ROLLING UNTIL ROLLER MARKS ARE ELIMINATED AND COURSE HAS ATTAINED MAXIMUM DENSITY. AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR RAFFIC ON PAVEMENT UNTIL IT HAS COOLED AND HARDENED. FRECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME

TEST IN-PLACE ASPHALT CONCRETE COURSES FOR PAVING AS DIRECTED BY ENGINEER FOR THICKNESS: IN-PLACE COMPACTED THICKNESS WILL NOT BE ACCEPTABLE IF EXCEEDING FOLLOWING ALLOWABLE VARIATION FROM REQUIRED THICKNESS: BASE COURSE: 1/2" PLUS OR MINUS

SURFACE SMOOTHNESS: TEST FINISHED SURFACE OF EACH ASPHALT CONCRETE COURSE FOR SMOOTHNESS, USING 10' STRAIGHT EDGE APPLIED PARALLEL WITH, AND AT RIGHT ANGLES TO CENTER OF PAVED AREAS. SURFACES WILL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING TOLERANCES FOR SMOOTHNESS:

WEARING COURSE SURFACE: 3/16" CHECK SURFACED AREAS AT INTERVALS AS DIRECTED BY ENGINEER. FIELD DENSITY AND SOIL BEARING CAPACITY TESTS SHALL BE PERFORMED BY THE GEOTECHNICAL ENGINEER. PROVIDE INSPECTION, CERTIFICATION OF PAVEMENT CONSTRUCTION, FIELD TESTS AND CORE SAMPLES OF THE COMPLETE PAVEMENT CONSTRUCTION.

MISCELLANEOUS PAVEMENT

WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING: CONCRETE SIDEWALKS, CURBS, CURB AND GUTTER, INCLUDING POROUS FILL.

CONCRETE LIGHT POLE BASES. SUBMIT A "LETTER OF INTENT" FOR THE FOLLOWING:

CONCRETE MIX DESIGN.

THIS SUBCONTRACTOR SHALL WARRANT ALL ASPHALT PAVING AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO (2) YEARS. POROUS FILL SHALL BE CLEAN COARSE SAND, FREE DRAINING GRAVEL, OR CRUSHED ROCK ALL AS APPROVED BY THE GEOTECHNICAL ENGINEER.

POROUS FILL UNDER SIDEWALKS, ETC., SHALL BE GRADED BETWEEN 3/8" AND NO. 200 POROUS FILL SHALL BE CAPABLE OF BEING COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM-1557.

STEEL REINFORCING BARS SHALL CONFORM TO "SPECIFICATIONS FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT", ASTM A-615 GRADE NO. 60, HAVING A MINIMUM YIELD STRENGTH OF 60,000 PSI. CONFORM TO THE "BAR SUPPORT SPECIFICATIONS" CONTAINED IN "MANUAL OF STANDARD

PRACTICE" AS PUBLISHED BY CRSL AND WCRSL BAR SUPPORTS AND ACCESSORIES WITHIN 1/2" OF SURFACE OF CONCRETE EXPOSED TO WEATHER SHALL BE NON-CORROSIVE. CEMENT SHALL BE GRAY PORTLAND CEMENT, TYPE I OR II, CONFORMING TO ASTM C-150 OR ASTM C-175 FOR AIR-ENTRAINING PORTLAND CEMENT. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33.

EACH SHALL CONFORM TO THE APPROPRIATE GRADING REQUIREMENTS OF ASTM C-33. AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C-260. EXPANSION JOINTS SHALL BE 1/2" THICK CANE FIBER EXPANSION JOINTS, CONFORMING TO ASTM D-1751. EXPANSION JOINT SEALANT SHALL BE TRAFFIC GRADE, SELF LEVELING TREMCO THC-900" OR PERCORA CORPORATION "NF-200". COLOR SHALL BE BLACK. SHALL BE AS RECOMMENDED BY SEALANT MANUFACTURER.

CURING COMPOUND SHALL BE CLEAR, CONFORMING TO ASTM C-309. CURING COMPOUND SHALL BE COMPATIBLE WITH PAINTS, ETC., SCHEDULED OR SPECIFIED FOR APPLICATION TO CONCRETE SURFACE. ALL CONCRETE, UNLESS OTHERWISE NOTED, SHALL HAVE A MINIMUM COMPRESSIVE

STRENGTH OF 3,000 PSI AT 28 DAYS. MIX DESIGN SHALL BE SO PROPORTIONED TO PROVIDE A MINIMUM OF 517 POUNDS OF CEMENT PER CUBIC YARD. ALL CONCRETE SHALL BE PROPORTIONED TO HAVE A SLUMP OF 4" MAXIMUM. TOLERANCE IN SLUMP SHALL NOT EXCEED ACI RECOMMENDATIONS. READY-MIXED CONCRETE SHALL CONFORM TO ASTM C-94 AND THE NATIONAL READY MIX

POROUS FILL SHALL BE LAID AND COMPACTED TO A MINIMUM DEPTH OF 3", UNLESS OTHERWISE INDICATED, UNDER ALL SIDEWALKS, ETC.. POROUS FILL SHALL BE COMPACTED TO NOT LESS THAN 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY ALL MATERIALS NECESSARY TO COMPLETE PAVING.

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ALL OFF-SITE WORK INCLUDED CONSISTS OF BUT IS NOT LIMITED TO THE FOLLOWING:

SITE RELATED FENCING. GUARD POSTS, GUARD RAIL AND POSTS AND SIGN POSTS LOCATED ON THE SITE. TRAFFIC CONTROL SIGNS. GUARD POSTS, GUARD RAIL AND POSTS AND SIGN POSTS:

STEEL SHAPES SHALL CONFORM TO ASTM A-36. STEEL PIPE SHALL CONFORM TO ASTM A-53, E OR S, TYPE B. STEEL PIPE SHALL CONFORM TO ASTM A-501.

SHOP COAT SHALL BE RUST INHIBITING RED OXIDE, RED LEAD OR LEAD CHROMATE OR EQUAL. IT IS THE INTENT TO PERMIT THE USE OF THE FABRICATORS STANDARD PRIME

ASPHALT BASED COATING IS NOT PERMITTED.

CONCRETE FOR SETTING FENCE AND GUARD RAIL POSTS AND SETTING AND FILLING OF SIGN AND GUARD POSTS SHALL BE PORTLAND CEMENT COMPLYING WITH ASTM C-150, AGGREGATES COMPLYING WITH ASTM C-33, AND CLEAN WATER. MIX MATERIALS TO OBTAIN CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI, USING AT LEAST 4 SACKS OF CEMENT PER CU. YD., 1" MAXIMUM SIZE AGGREGATES, MAXIMUM 3" SLUMP, AND 2% TO 4% ENTRAINED AIR. PREPARE TO CONFORM TO ASTM C-94

MISCELLANEOUS NOTES

THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING.

THE ENGINEER HAS ATTEMPTED TO LOCATE EXISTING STRUCTURES AND EXISTING ILITIES IN THE PROJECT AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY

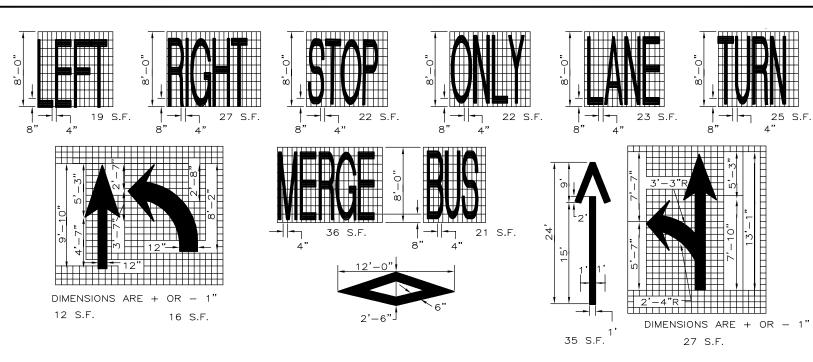
DETERMINE THE EXACT LOCATIONS OF THESE STRUCTURES OR UTILITIES AND TO DETERMINE IF OTHER STRUCTURES OR UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION AND RELOCATION OF UTILITIES IN CONFLICT WITH NEW CONSTRUCTION BY APPROPRIATE UTILITY COMPANY.

THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS, TORCHES, RED LANTERNS AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK IN ACCORDANCE WITH STATE STANDARDS AND UNTIL IT IS SAFE FOR BOTH PEDESTRIAN AND VEHICULAR TRAFFIC.

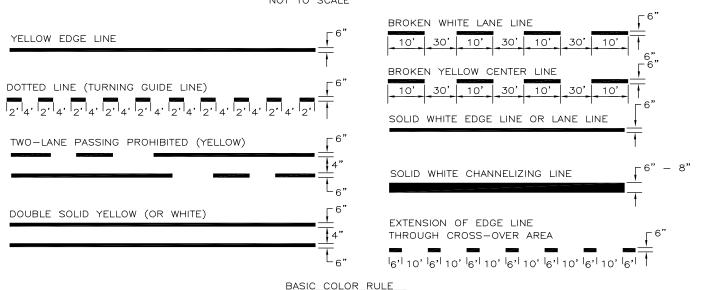
CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING SURROUNDINGS (I.E., ASPHALT, SIDEWALKS, CURBS, ETC.) THAT ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT

ALL SITE WORK MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. CONTRACTOR SHALL HAVE ALL PERMITS PRIOR TO CONSTRUCTION IN WETLANDS, COUNTY

CONSTRUCTION PLANS ARE BASED ON FIELD SURVEY AND OTHER DATA AS SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL LOCATIONS OF NEW AND EXISTING CONNECTIONS NECESSARY TO COMPLETE THE INTENT OF THE PLANS. IN THE EVENT THERE IS A CONFLICT DUE TO UNFORESEEN OBSTRUCTIONS OR SHORT FALLS TO CONNECTIONS (WHICH DOES NOT MEET THE INTENT OF THE CONSTRUCTION PLANS) HE CONTRACTÒR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION. TH CONTRACTOR SHALL RELOCATE OR REMOVE OBSTACLES AS DIRECTED BY OWNER.



PAVEMENT ARROWS AND MESSAGE DETAILS



WHITE LINES SEPARATE FLOWS IN SAME DIRECTION YELLOW LINES SEPARATE FLOWS IN OTHER OPPOSITE DIRECTION YELLOW DOTTED LINES MAY BE USED IN SPECIAL CASES

TYPES OF PERMANENT LONGITUDINAL LINES

SOD TO BE PLACED 1-1/2 INCHES LOWER THAN THE EDGE OF PAVEMENT

-SUBBASE TO EXTEND 6" BEYOND

BACK OF CURB

—— 2" DIA. GALVANIZED STEEL PIPE PAINT TRAFFIC YELLOW

- 8" ü STEEL PIPE W/ CONCRETE

FILL. PAINT REFLECTIVE YELLOW.

----1/16" RADIUS (DEBUR ALL SHARP EDGES)

ROUNDED CONCRETE CAP

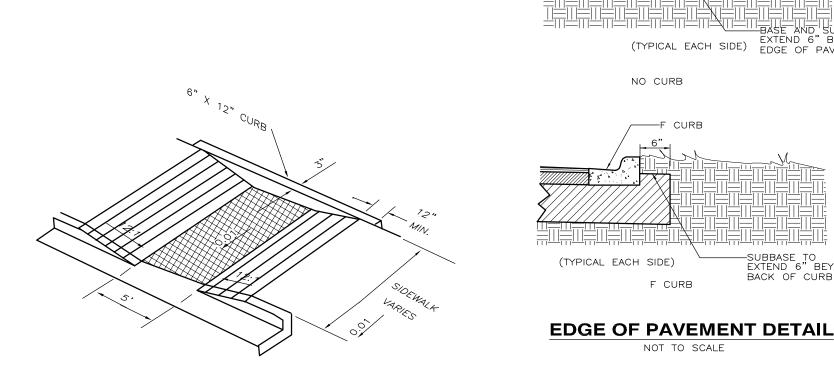
GRADE

H.C. SIGN POST DETAIL

NOT TO SCALE

(TYPICAL EACH SIDE) EDGE OF PAVEMENT

NO CURB

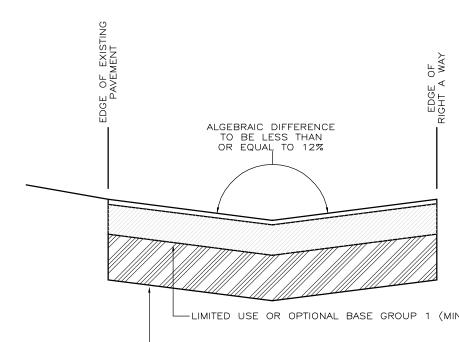


- 1. PEDESTRIAN PATHWAYS WITH RUNNING SLOPES STEEPER THAN 20:1 ARE CONSIDERED RAMPS. RAMP RUNNING SLOPES SHALL NOT EXCEED 12:1. RAMP CROSS SLOPES SHALL NOT EXCEED 0.02. 2. THE LOCATION AND ORIENTATION OF CURB CUT RAMPS SHALL BE AS SHOWN IN THE PLANS. RAMPS RUNS SHALL HAVE A TACTILE SURFACE. RAMP LANDINGS ADJOINING VEHICULAR WAYS SHALL HAVE A TACTILE SURFACE. RAMP TO LANDINGS ADJUINING VEHICULAR WAYS SHALL HAVE A TACTILE SURFACE 36" WIDE BORDERING THE VEHICULAR WAY. TACTILE SURFACES SHALL BE CONSTRUCTED BY TEXTURING TO A DEPTH NOT EXCEEDING 1/8" BY USE OF A TAMP OR ROLLER FABRICATED WITH AN IMPRINTING SURFACE OF EITHER 1" MESH 0.250 WIRE CLOTH (PLAIN WEAVE, CONVENTIONAL CRIMP), #6 EXPANDED METAL (STANDARD) OR 3 LB. EXPANDED METAL GRATING. TRANSITION SLOPES ARE NOT TO HAVE TACTILE SURFACES.
- WHERE A CURB CUT RAMP IS CONSTRUCTED WITHIN EXISTING CURB, CURB AND GUTTER AND/OR SIDEWALK, THE EXISTING CURB OF CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE DROP CURB OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB AND GUTTER IS LESS THAN 5' LONG. THE EXISTING SIDEWALK SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE TRANSITION SLOPE OR WALK AROUND OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5' LONG.

HANDICAP RAMP DETAIL

NOT TO SCALE

TOP OF STALL OR SIDEWALK.



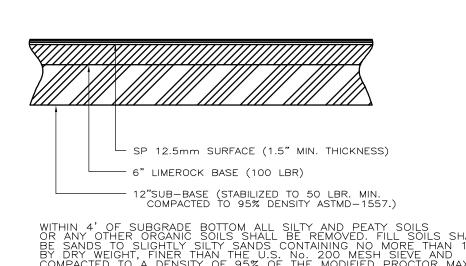
SLOPE STABILIZATION REQUIREMENTS (SLOPES NOTED AS VER:HOR); * FLAT TO 1:3 - SEED AND MULCH, HYDRO-SEED, SOD (TYPE AND APPLICATION RATE PER

F.D.O.T. INDEX 105) 1:3 TO 1:2 - SOD LAPPED AND PINNED
1:2 TO 1:1 - EROSION CONTROL BLANKET WITH SEEDING ◆ 1:1 OR GREATER — RETAINING WALL OR ARMORFORM

COMMERCIAL DRIVEWAYS OR 4" THICK FOR RESIDENTIAL DRIVEWAYS.

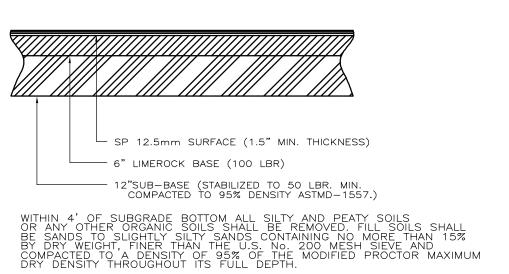
- OVERSEED ALL SOD WITH QUICK GROWING GRASS SEED DURING NOVEMBER TO MARCH. ALL SOD TO STAGGERED PER F.D.O.T. INDEX 105 PATTERN DETAIL. LIMITED USE OPTIONAL BASE GROUPS TRAFFIC LIMITS SHOWN IN INDEX 514 APPLY. SURFACE COURSE TO BE 11/2" MINIMUM THICKNESS TYPE S OR SUPERPAVE (FINE MIX) ASPHALTIC CONCRETE, OR F.D.O.T. SPECIFICATION CLASS I PORTLAND CEMENT CONCRETE THAT IS 6" THICK FOR
- EXISTING ROADSIDE DRAINAGE FLOW TO BE MAINTAINED. . ONLY ASPHALTIC CONCRETE, MILLED ASPHALT OR BAHAMA BASES ARE ACCEPTABLE IN COUNTY RIGHT OF WAY FOR CONNECTION TO DIRT ROADS. PCC DRIVEWAYS TO TERMINATE AT PROPERTY LINES.

- LIMITED USE OR OPTIONAL BASE GROUP 1 (MIN) —12" TYPE "B" STABILIZATION



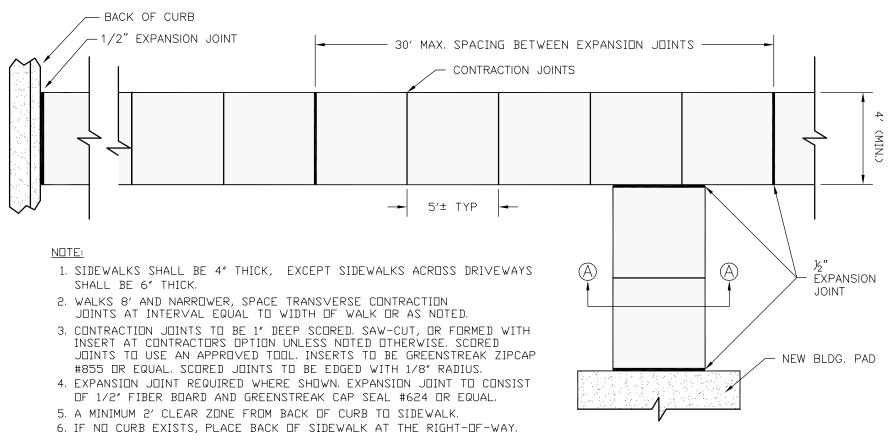
ASPHALTIC PAVEMENT DETAIL NOT TO SCALE

SWALED DRIVEWAY CROSS SECTION

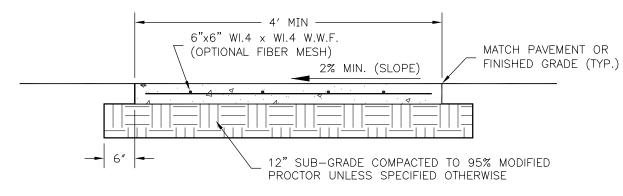


TEST SCHEDULE TEST IDENTIFICATION TEST REQUIREMENT TEST FREQUENCY PER SOIL TYPE OPTIMUM MOISTURE | ASTM D-1557 AASHTO T-191,T-204 ASTM D-1556,D-2937 DENSITY FIELD DENSITY ONE PER 500 LF HORIZONTAL OR ONE PER 750SY WITH A MINIMUM OF 3 TESTS, ALTERNATING LIFTS (12") GRADATION AASHTO M-92 < 15% PASSING NO. 200 ONE PER SOIL TYPE PER SOIL TYPE OPTIMUM MOISTURE ASTM D-1557 AND STRUCTURES AASHTO T-191,T-204, 98% OF MAXIMUM ASTM D-1556, D-2937 DENSITY FIELD DENSITY ONE PER 500 LF HORIZONTAL OR ONE PER 750SY WITH A MINIMUM OF 3 TESTS, ALTERNATING LIFTS (12") GRADATION AASHTO M-92 <15% PASSING NO. 200 PER SOIL TYPE BEARING VALUES LBR-F.D.O.T. 40 (MIN.) **SUBGRADE** ONE PER SITE OR AT MATERIAL CHANGES AASHTO T-180 FIELD DENSITY & AASHTO T-191,T-204, 98% OF ASTM D-1556, D-2937 DENSITY ONE PER 500 LF HORIZONTAL OR ONE PER 750SY THICKNESS WITH A MINIMUM OF 3 TESTS F.D.O.T. FM 5-511 ONE PER SOURCE OF AS MATERIAL CHANGES 500 LBS. (MIN.) STABILITY TESTS (SAND-ASPHALT) ONE PER 500 L.F. HORIZONTAL OR ONE PER 750 S.Y. WITH A MINIMUM OF 3 TESTS FIELD DENSITY & AS DETERMINED BY ASTM D-1559 THICKNESS MARSHALL METHOD AASHTO T-164, T-30 BITUMEN CONTENT FDOT SPEC 330,331,916 & GRADATION ASTM D-2172 ONE PER DAY FOR GRADATION ONE PER 500 L.F. HORIZONTAL OR ONE PER 750 S.Y. WITH A MINIMUM OF 3 TESTS 95% OF LAB DENSITY N/A FDOT SPEC 901,902 ONE PER SUPPLIER CERTIFICATION MARSHALL STABILITY ASTM D-1559 & DENSITY FDOT SPEC 330, 331 ONE PER DAY SLUMP TEST 2" TO 3" AS REQUIRED BY SOILS ENGINEER OR ONE PER (MISC. SITE WORK) ASTM C-143SET OF CYLINDERS ONE SET OF 3 CYLINDERS PER 50 C.Y. PER DAY COMPRESSIVE STRENGTH 3000 PSI AASHTO T-199 ONE PER SET OF CYLINDERS 3% TO 6% AIR CONTENT CONCRETE FOR SITE WORK INCLUDES BUT IS NOT LIMITED TO CURB, CURB & GUTTER, SIDEWALKS, CONCRETE PAVING, ETC. THIS TEST SCHEDULE APPLIES TO SITE WORK ONLY. SEE ARCHITECT'S SPECIFICATIONS FOR FOUNDATION/BUILDING TESTING. NOTE: TEST FREQUENCY FOR HORIZONTAL DISTANCES ARE BASED ON AN AVERAGE 24 FOOT WIDE ROADWAY.

MATERIALS TEST SCHEDULE



<u>Standard Joint Layout for concrete walks</u>

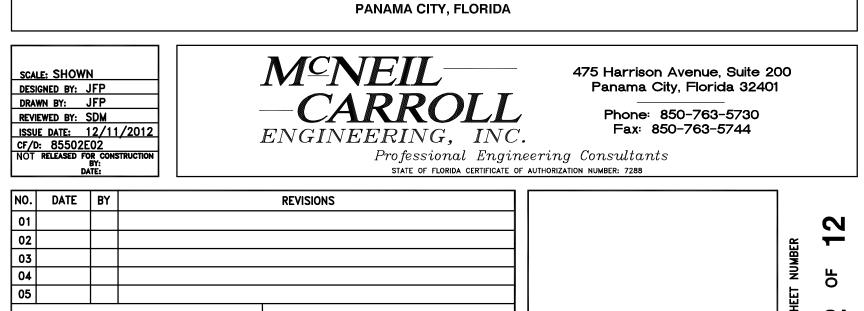


CONCRETE SIDEWALK DETAIL

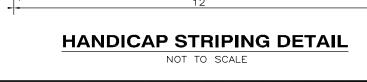
Sean D. McNeil, P.E.

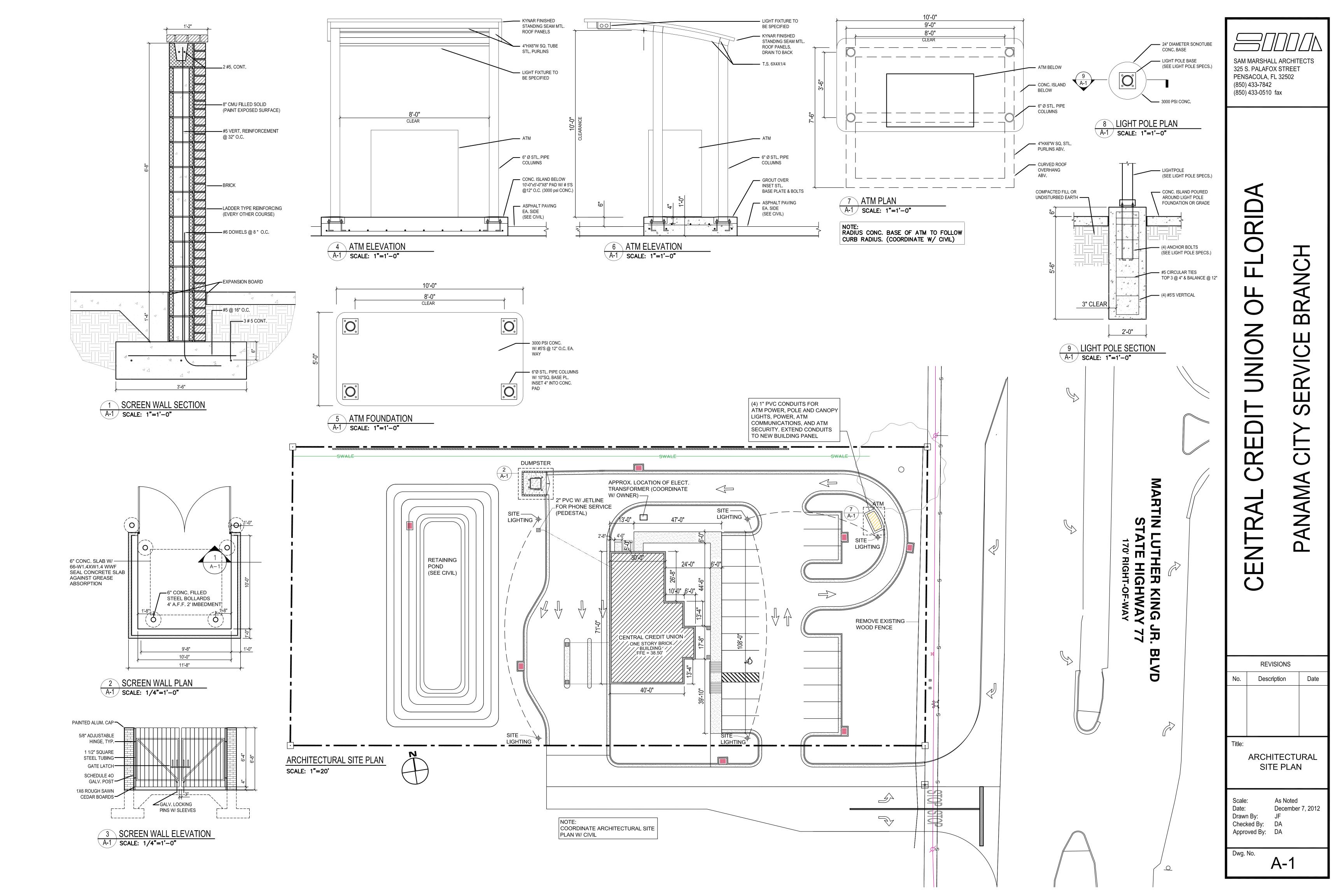
PERMIT PURPOSES ONLY

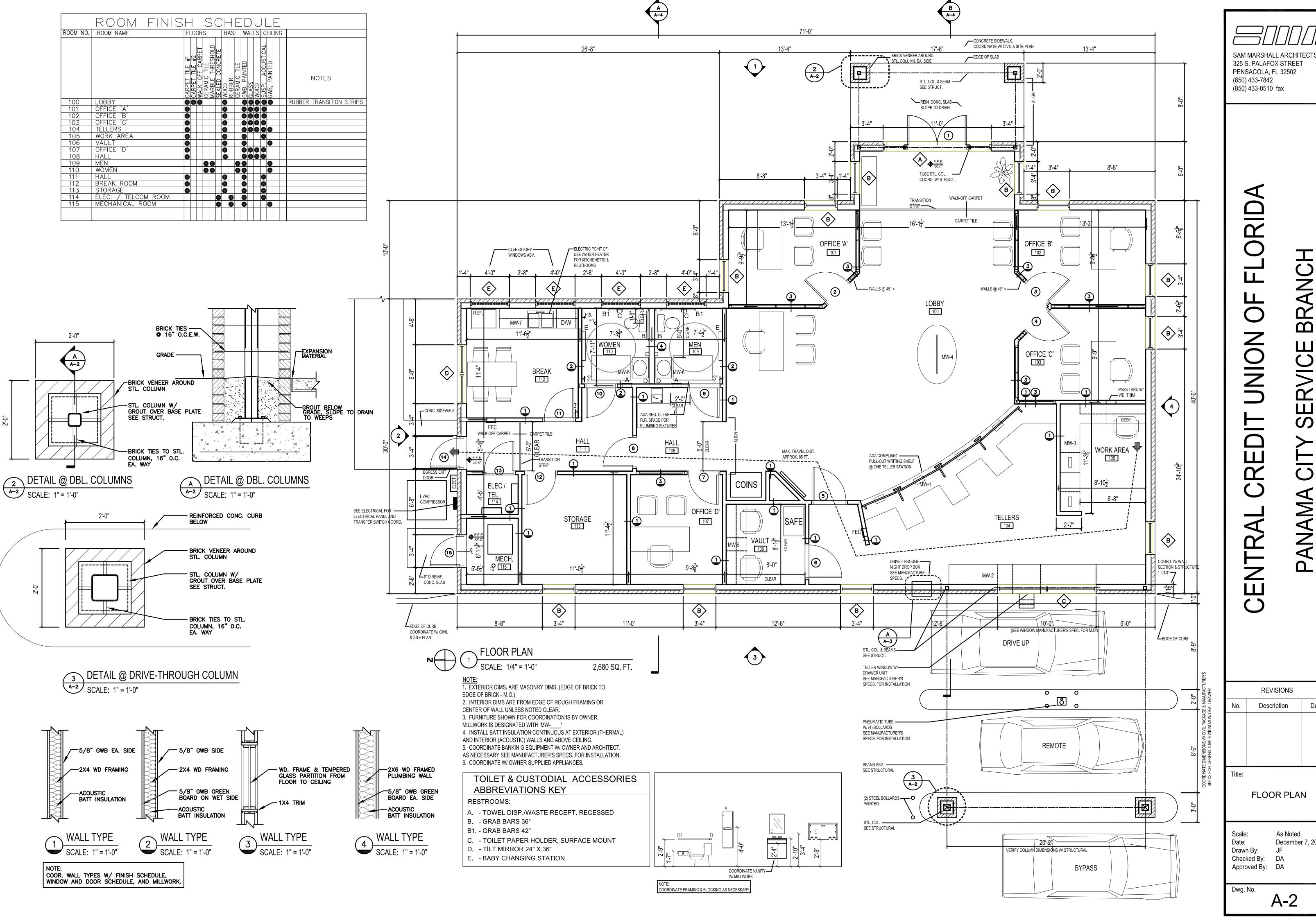
CONSTRUCTION DETAILS CENTRAL CREDIT UNION OF FLORIDA **STATE ROAD 77**



Robert L. Carroll, P.E. PROFESSIONAL ENGINEE FL LC # 57988







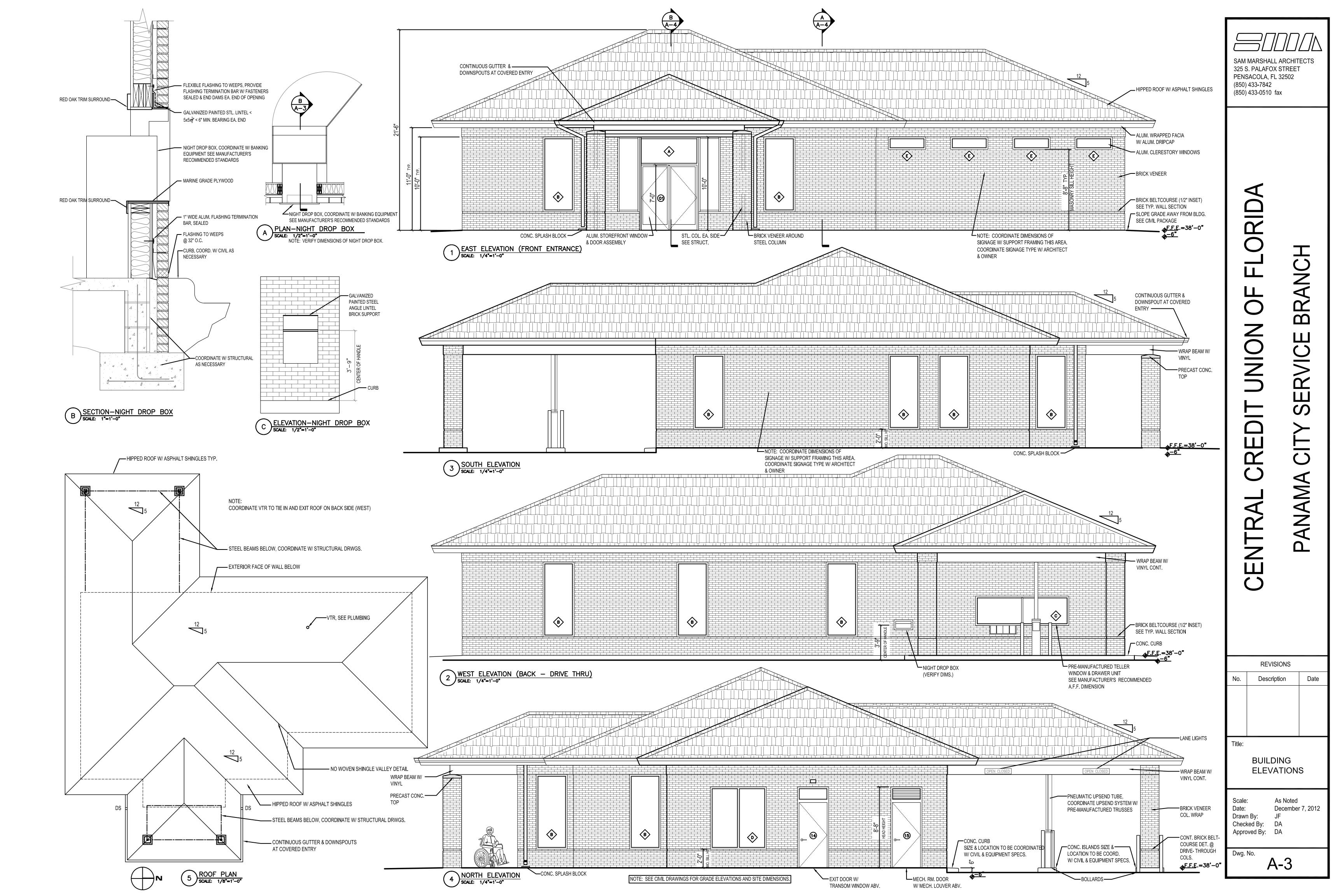
SAM MARSHALL ARCHITECTS 325 S. PALAFOX STREET PENSACOLA, FL 32502

REVISIONS

FLOOR PLAN

As Noted December 7, 2012

A-2







BRANCH

PANAM/

	REVISIONS	
0.	Description	Date

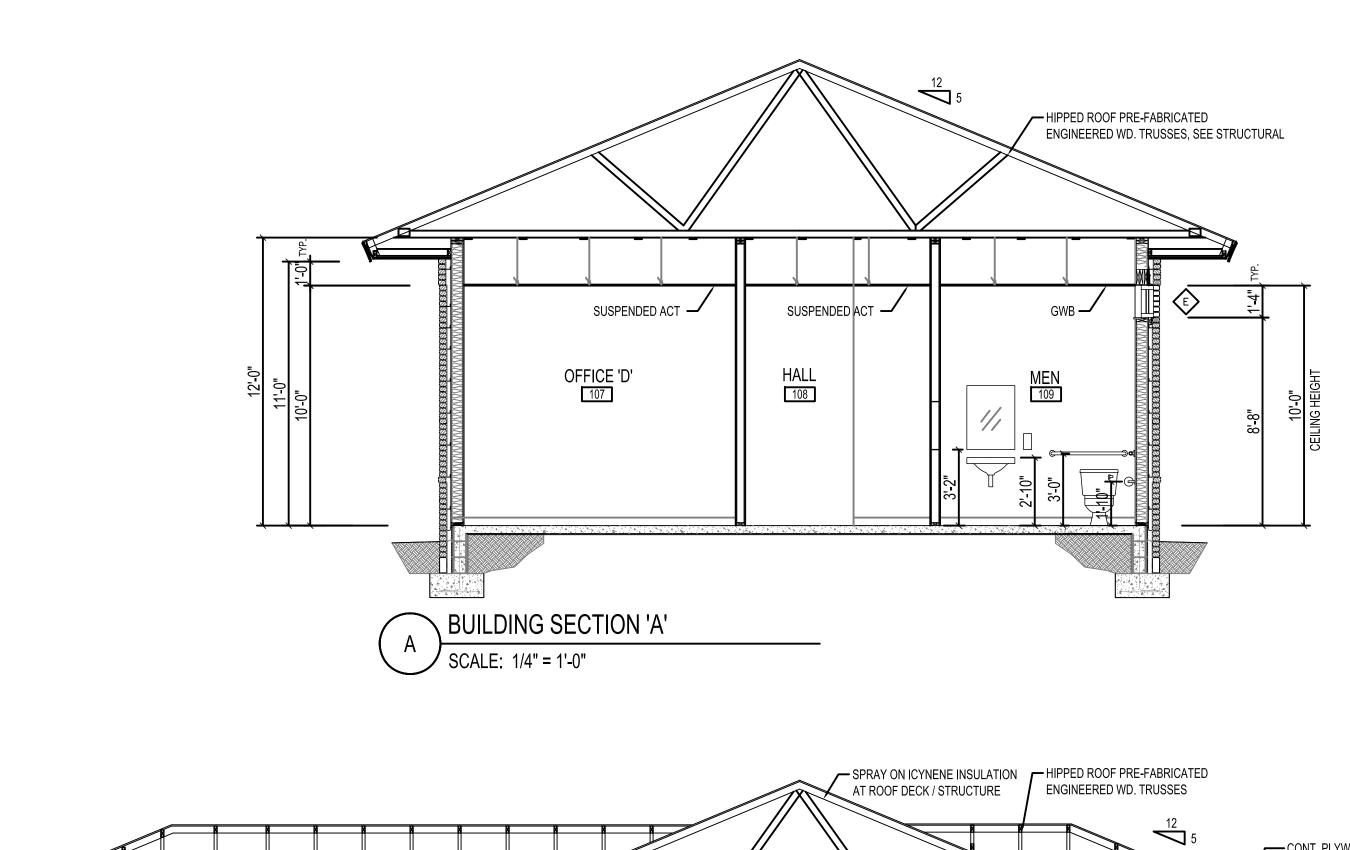
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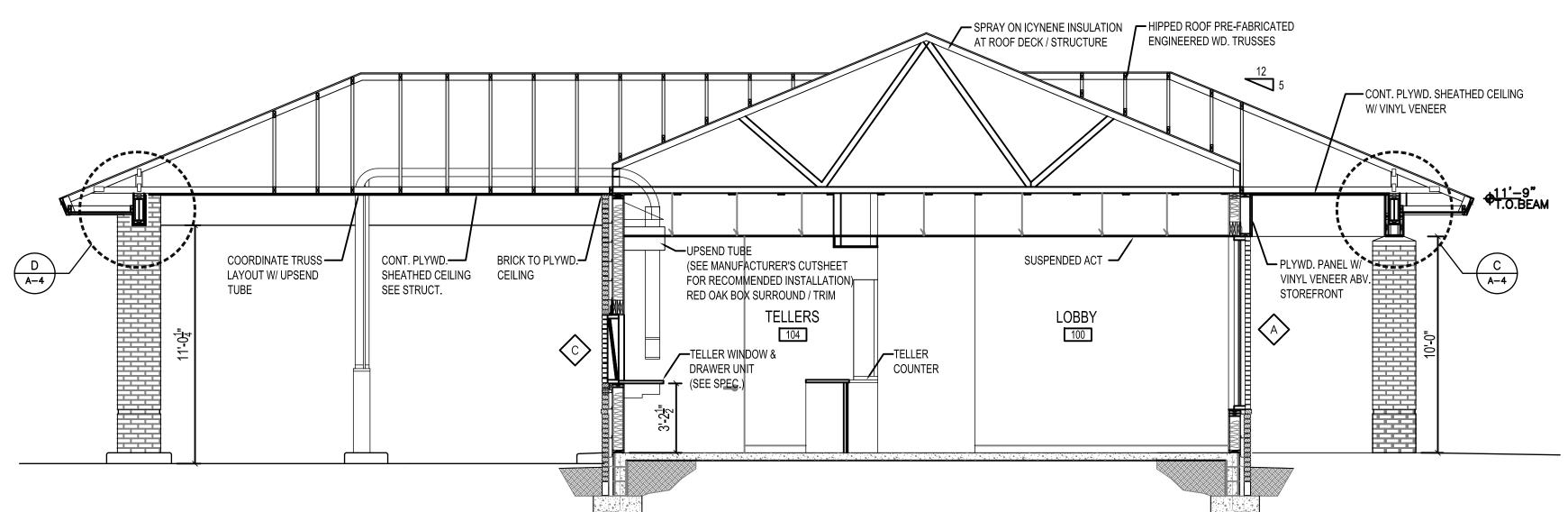
BUILDING SECTIONS & WALL SECTIONS

Scale: As Noted
Date: December 7, 2012
Drawn By: JF
Checked By: DA
Approved By: DA

Dwg. No.

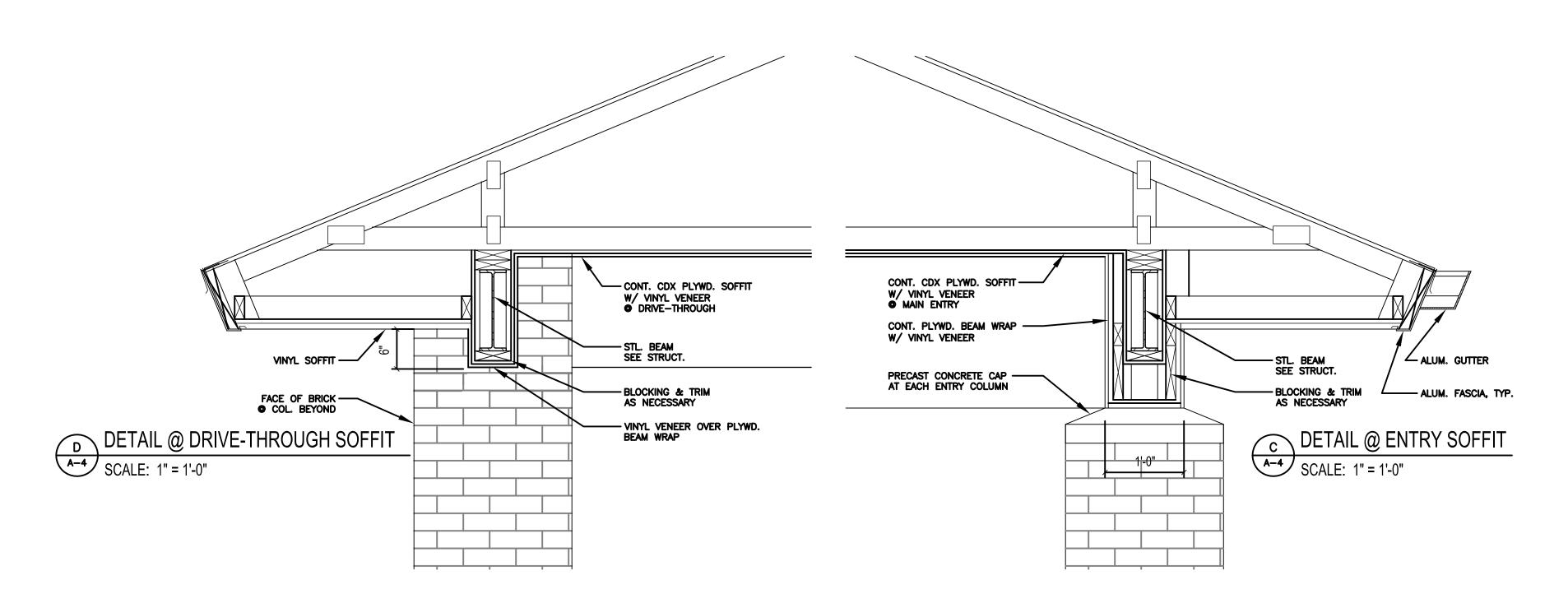


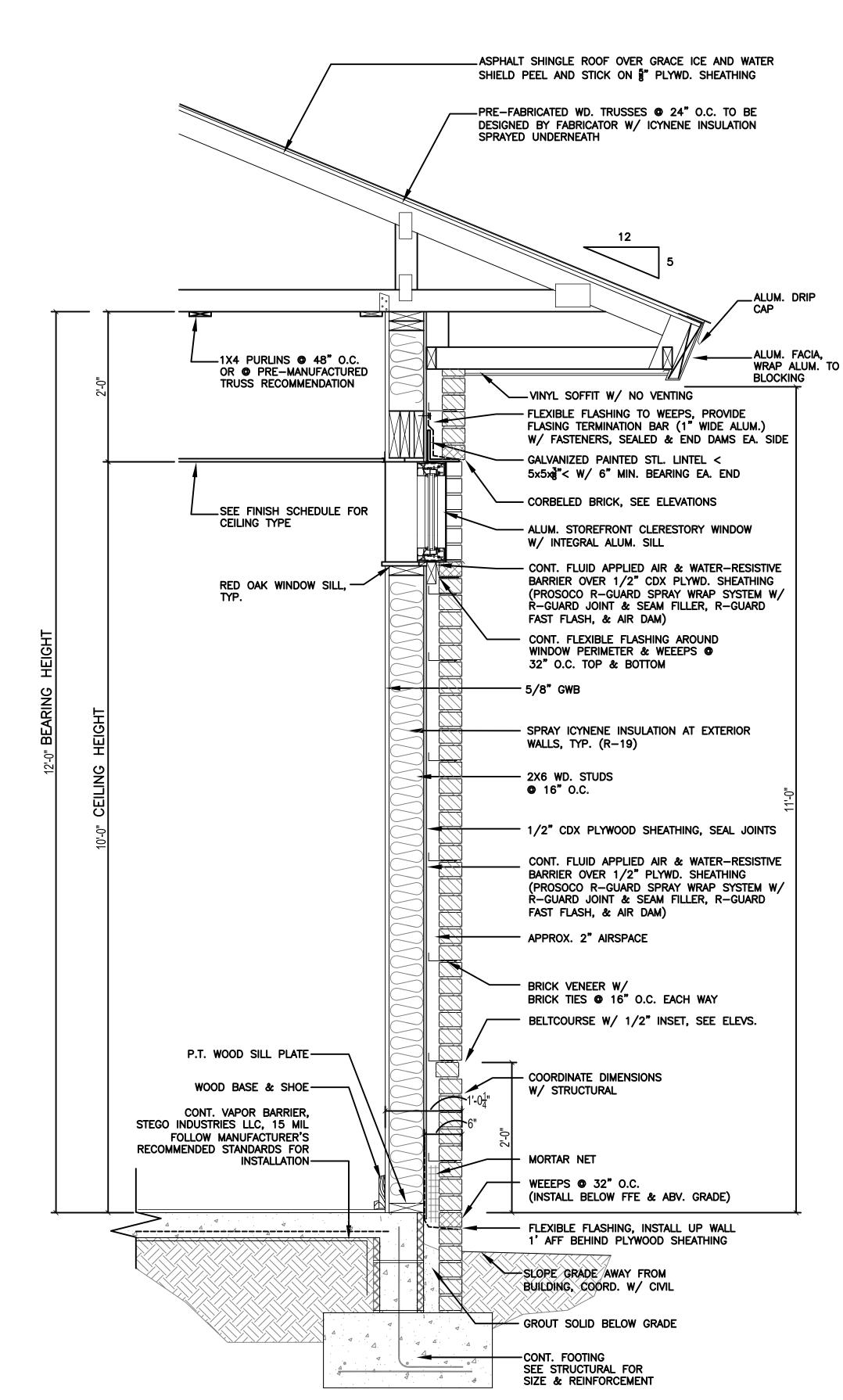


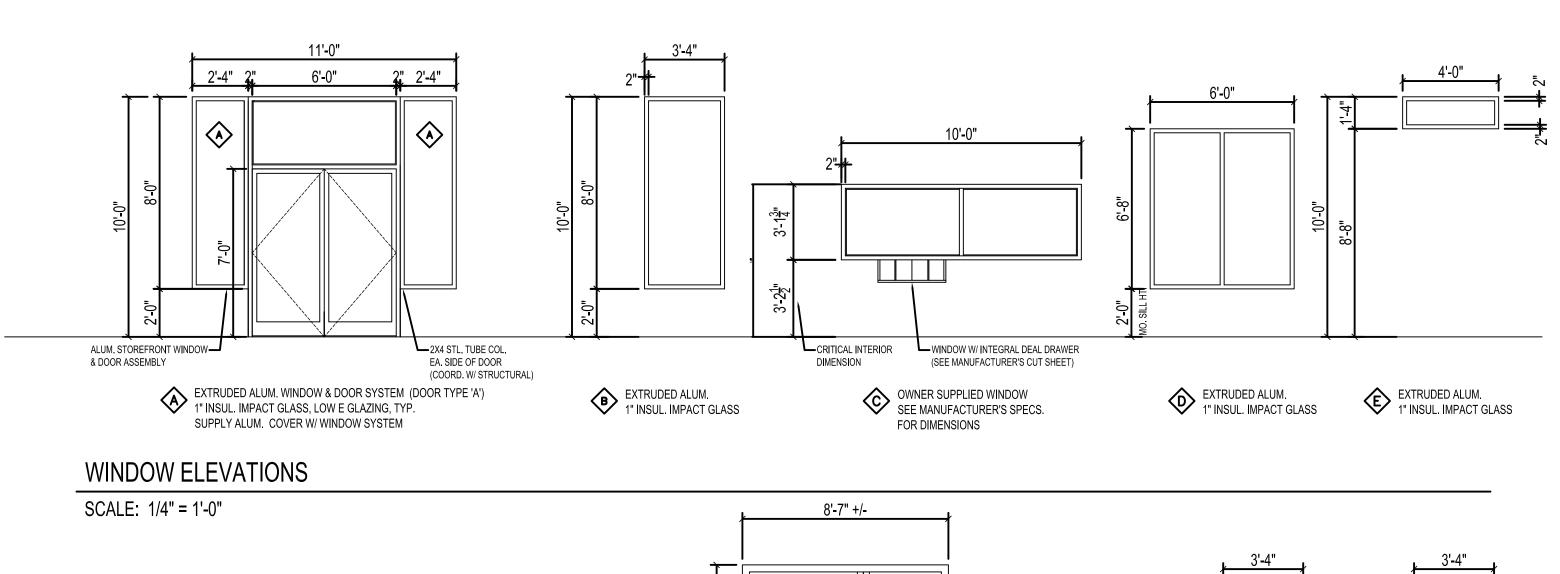


BUILDING SECTION 'B'

SCALE: 1/4" = 1'-0"







DOOR TYPE 'D'

SOLID CORE WD. DOOR

WOOD FRAME & TRIM

TEMPERED GLASS

DOOR TYPE 'E'

SOLID CORE WD. DOOR

HMF - KNOCK-DOWN

DOOR TYPE 'F'

GALV. MTL. TRANSOM FRAME

W/ TEMPERED IMPACT GLASS

HM DOOR

RUDED ALUM.
SUL. IMPACT GLASS

EXTRUDED ALUM.
1" INSUL. IMPACT GLASS

DOOR TYPE 'G'

ALUM. EXTRUDED LOUVER

FASTENED TO GALV. MTL FRAME

HM DOOR

DOOR ELEVATIONS

RED OAK WD.

DOOR TYPE 'C'

SOLID CORE WD. DOOR

DOOR TYPE 'B' SOLID CORE WD. DOOR

WOOD FRAME & TRIM

DIMENSIONS & DETAILS)

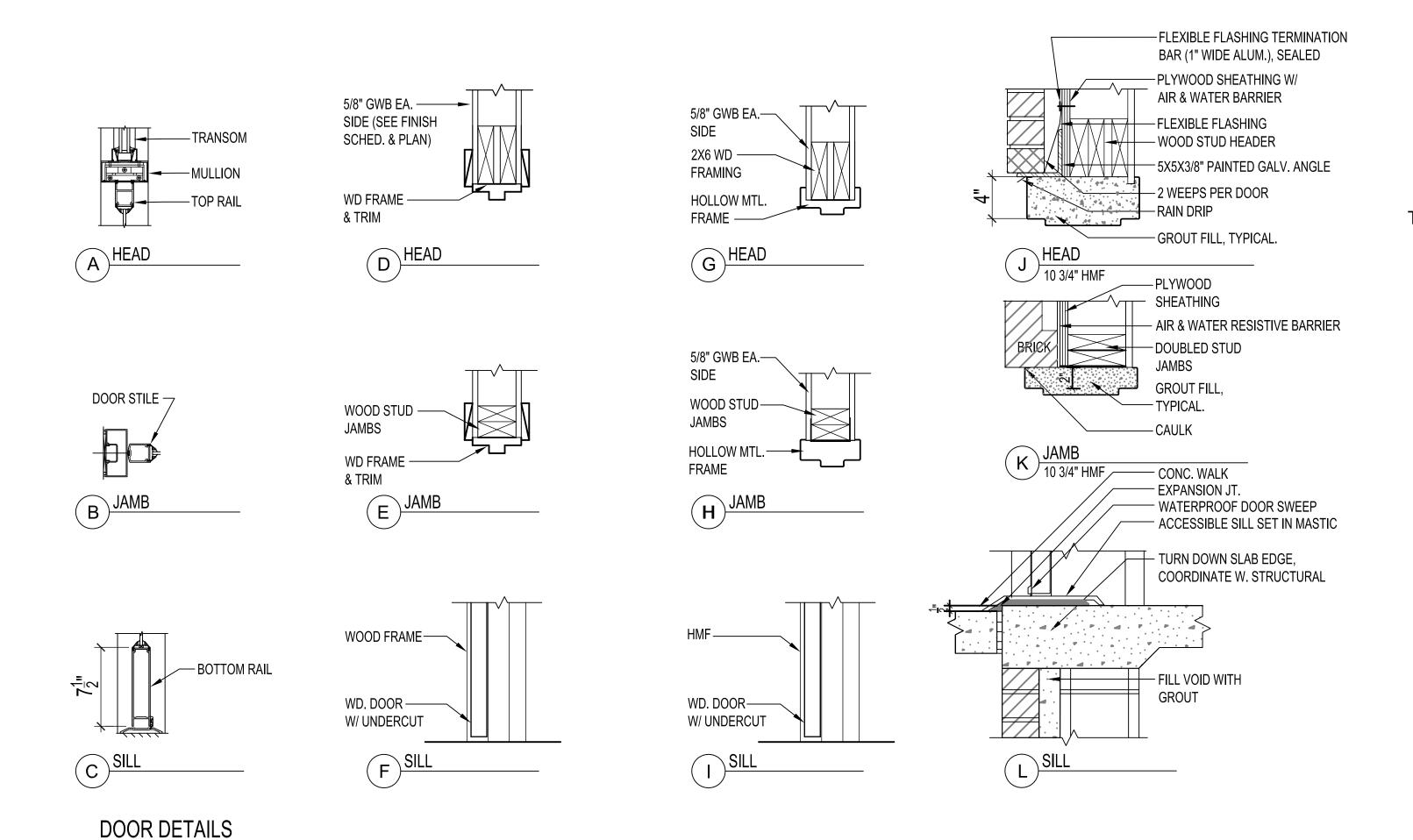
(SEE PLAN FOR HANDING, SEE A-7 FOR

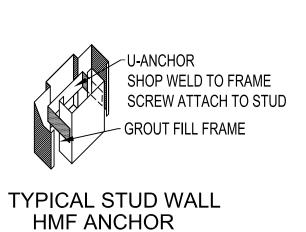
SCALE: 1/4" = 1'-0"

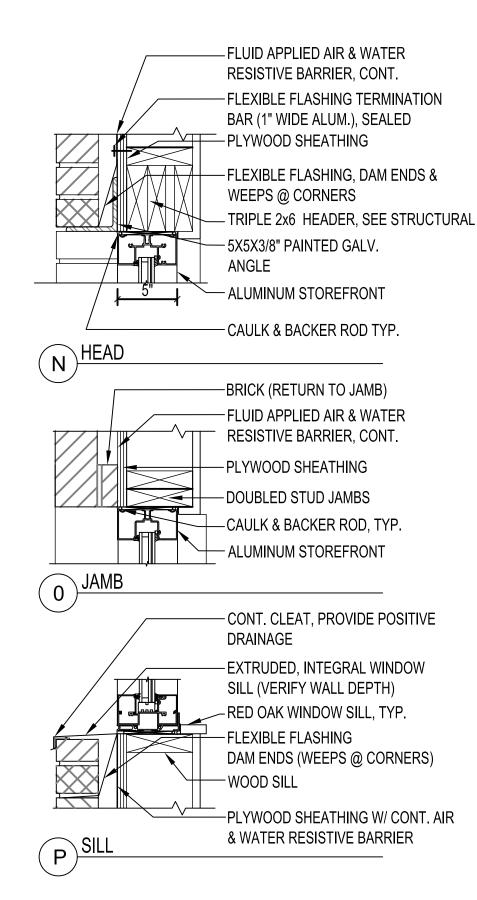
SCALE: 1 1/2" = 1'-0"

DOOR TYPE 'A'
EXTRUDED ALUM. DOOR SYSTEM

1" INSUL. GLASS







DOOR SCHEDULE

NOMINAL SIZE

3'-0"

3**'**-0"

3'-4"

3'-4"

3'-0"

11 | E | 3'-0"

12 | E | 3'-0"

13 | E | 3'-0"

WIDTH | HEIGHT | HEAD

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

7'-0"

DETAILS

JAMB

SILL

REMARKS

1 TEMP. GLASS

7 PEEP HOLE

9 PEEP HOLE

10 PEEP HOLE

2 PEEP HOLE

6

l 8

I | 5

4 TEMP. GLASS

4 | SEE A-7 FOR DETAILS

4 | SEE A-7 FOR DETAILS

4 SEE A-7 FOR DETAILS

WINDOW DETAILS

SCALE: 1 1/2" = 1'-0"

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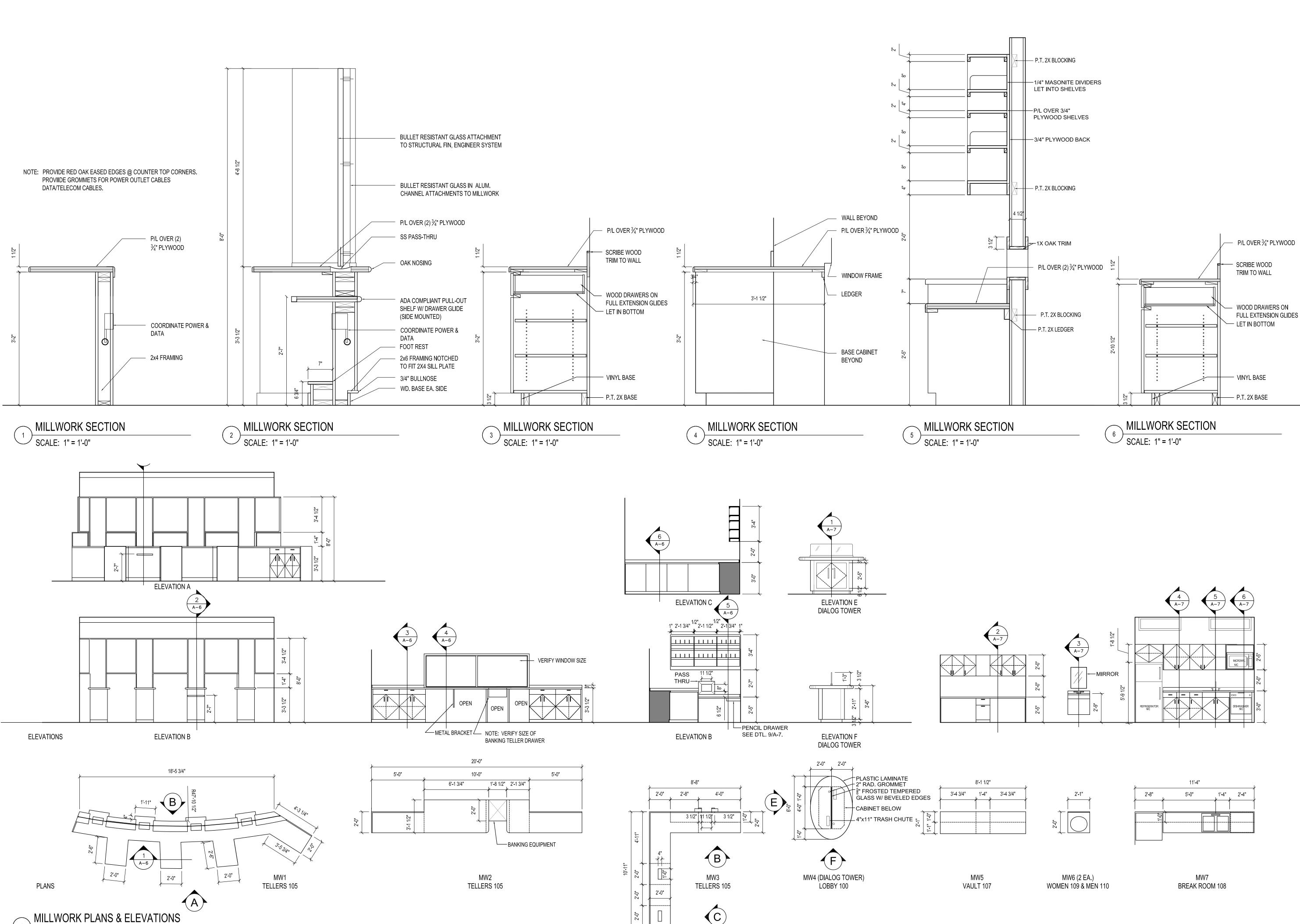
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DOOR & WINDOW ELEVATIONS & SCHEDULES

Scale: As Noted
Date: December 7, 2012
Drawn By: JF
Checked By: DA
Approved By: DA

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A-5



SCALE: 1/4" = 1'-0"

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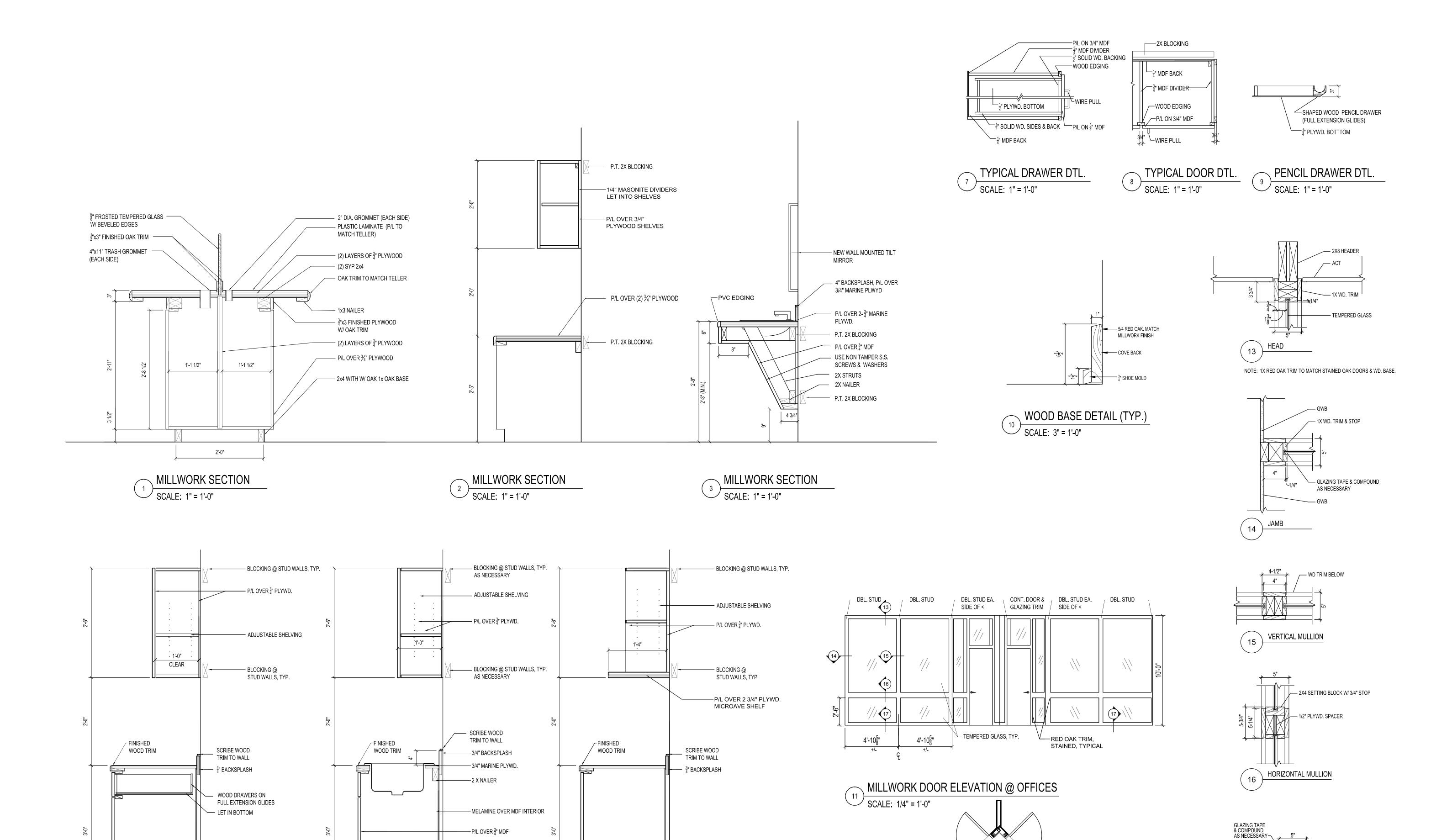
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No.	Description	Date
Title:		

MILLWORK

Scale: As Noted
Date: December 7, 2012
Drawn By: JF
Checked By: DA
Approved By: DA

Dwg. No. A-6



— VINYL BASE

— P.T. 2X BASE

MILLWORK SECTION

SCALE: 1" = 1'-0"

MILLWORK DOOR PLAN @ OFFICES

SCALE: 1/4" = 1'-0"

— VINYL BASE

— P.T. 2X BASE

MILLWORK SECTION

— VINYL BASE

MILLWORK SECTION

SCALE: 1" = 1'-0"

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FLORID

	REVISIONS	
No.	Description	Date

MILLWORK

Title:

____ 2X4 SETTING BLOCK W/ 3/4" STOP

— 3/4" FURRING AS NECESSARY

WD. BASE TO MATCH WD. TRIM

WOOD DOOR DETAILS

SCALE: 1 1/2" = 1'-0"

MATCH WD. BASE HT.

As Noted Date: Drawn By: December 7, 2012 Checked By: DA Approved By: DA

Dwg. No. A-7

SHOP-FABRICATED WOOD TRUSSES SPECS

PART 1 – GENERAL

1.1 SUMMARY

- A. Section Includes:
- 1. Wood roof trusses.
- 2. Wood girder trusses.
- 3. Wood truss bracing.
- 4. Metal truss accessories.

1.2 ACTION SUBMITTALS

- A. Product Data: For metal-plate connectors, metal truss accessories, and fasteners.
- B. Shop Drawings: Show fabrication and installation details for trusses.
- 1. Show location, pitch, span, camber, configuration, and spacing for each type of truss required.
- 2. Indicate sizes, stress grades, and species of lumber.
- 3. Indicate locations, sizes, and materials for permanent bracing required to prevent buckling of individual truss members due to design loads.
- 4. Indicate type, size, material, finish, design values, orientation, and location of metal connector plates.
- 5. Show splice details and bearing details.
- C. Delegated-Design Submittal: For metal-plate-connected wood trusses indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

A. Product certificates.

1.3 INFORMATIONAL SUBMITTALS

- B. Evaluation Reports: For the following, from ICC-ES:
- 1. Metal-plate connectors.
- 2. Metal truss accessories.

1.4 QUALITY ASSURANCE

- A. Metal Connector—Plate Manufacturer Qualifications: A manufacturer that is a member of TPI and that complies with quality-control procedures in TPI 1 for manufacture of connector plates.
- 1. Manufacturer's responsibilities include providing professional engineering services needed to assume engineering responsibility.
- 2. Engineering Responsibility: Preparation of Shop Drawings and comprehensive engineering analysis by a qualified professional
- B. Fabricator Qualifications: Shop that participates in a recognized quality—assurance program that complies with quality—control procedures in TPI 1.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Handle and store trusses to comply with recommendations in TPI BCSI, "Building Component Safety Information: Guide to Good Practice for Handling, Installing, Restraining, & Bracing Metal Plate Connected Wood Trusses.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer to design metal-plate-connected wood trusses.
- B. Structural Performance: Provide metal-plate-connected wood trusses capable of withstanding design loads within limits and under conditions indicated. Comply with requirements in TPI 1 unless more stringent requirements are specified below.

2.2 DIMENSION LUMBER

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
- 1. Provide dry lumber with 19 percent maximum moisture content at time of dressing.
- C. Permanent Bracing: Provide wood bracing that complies no. 2 grade southern yellow pine.

2.3 METAL CONNECTOR PLATES

- A. <u>Manufacturers</u>: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- 1. Alpine Engineered Products, Inc.; an ITW company.
- 2. Cherokee Metal Products, Inc.; Masengill Machinery Company.
- 3. <u>CompuTrus, Inc</u>.
- 4. Eagle Metal Products.
- 5. Jager Building Systems, Inc.; a Tembec/SGF Rexfor company
- 6. MiTek Industries, Inc.; a subsidiary of Berkshire Hathaway Inc.
- 7. Robbins Engineering, Inc.
- 8. Truswal Systems Corporation; an ITW company.
- B. General: Fabricate connector plates to comply with TPI 1.
- C. Hot-Dip Galvanized-Steel Sheet: ASTM A 653/A 653M; Structural Steel (SS), high—strength low—alloy steel Type A (HSLAS Type A), or high—strength low—alloy steel Type B (HSLAS Type B); G60 (Z180) coating designation; and not less than 0.036 inch (0.9 mm) thick.

2.4 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
- 1. Provide fasteners for use with metal framing anchors that comply with written recommendations of metal framing manufacturer.
- 2. Where trusses are exposed to weather, in ground contact, made from pressure-preservative treated wood, or in area of high relative humidity, provide fasteners with hot—dip zinc coating complying with ASTM A 153/A 153M.
- B. Nails, Brads, and Staples: ASTM F 1667.

2.5 METAL FRAMING ANCHORS AND ACCESSORIES

- A. Manufacturers: Subject to compliance with requirements, provide products by the following:
- B. <u>Basis-of-Design Product</u>: Subject to compliance with requirements, provide product by <u>Simpson Strong-Tie Co., Inc.</u> indicated on drawings or comparable product by <u>USP Structural Connectors</u>.
- C. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those of basis—of—design products. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
- D. Galvanized-Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G185 (1.85 oz per sq ft zinc) coating

2.6 FABRICATION

- A. Assemble truss members in design configuration indicated; use jigs or other means to ensure uniformity and accuracy of assembly with joints closely fitted to comply with tolerances in TPI 1. Position members to produce design camber indicated.
- 1. Fabricate wood trusses within manufacturing tolerances in TPI 1.
- B. Connect truss members by metal connector plates located and securely embedded simultaneously in both sides of wood members by air or hydraulic press.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install wood trusses only after supporting construction is in place and is braced and secured.
- B. If trusses are delivered to Project site in more than one piece, assemble trusses before installing.
- C. Hoist trusses in place by lifting equipment suited to sizes and types of trusses required, exercising care not to damage truss members or joints by out-of-plane bending or other causes.
- D. Install and brace trusses according to TPI recommendations and as indicated.
- E. Anchor trusses securely at bearing points; use metal truss tie-downs or floor truss hangers as applicable. Install fasteners through each fastener hole in metal framing anchors according to manufacturer's fastening schedules and written instructions.
- F. Securely connect each truss ply required for forming built—up girder
- G. Install and fasten permanent bracing during truss erection and before construction loads are applied. Anchor ends of permanent bracing where terminating at walls or beams.
- H. Install wood trusses within installation tolerances in TPI 1.
- I. Do not alter trusses in field. Do not cut, drill, notch, or remove truss members.
- J. Replace wood trusses that are damaged or do not meet requirements.

ULTIMATE WIND LOAD PRESSURE TABLES

								\
ROOF C&C	ULT	IMAT	E W	IND	PRE	SSUF	RE (P	'SF)
EFFCTIVE AREA OI ROOF COMPONENT	ROOF	ZONE 1	ROOF	ZONE 2	R00F	ZONE 3		VERHANG ZONE 3
10 SQ FT	24	-38	24	-65	24	-65	-76	-76
20 SQ FT	22	-37	22	-60	22	-60	-76	-76
50 SQ FT	19	-35	19	-53	19	-53	-76	-76
100 SQ FT	17	-34	17	-48	17	-48	-76	-76

WALL C&	C ULTIMA	ATE WIND	PRESSU	RE (PSF)
EFFECTIVE AREA		INTERIOR ZONE 4		ZONE 5
OF DOOR/ WINDOW	PRESSURE	SUCTION	PRESSURE	SUCTION
10 SQ FT	41	-45	41	-55
20 SQ FT	40	-43	40	-51
50 SQ FT	37	-41	37	-46
100 SQ FT	35	-39	<i>3</i> 5	-43
200 SQ FT	33	-37	33	-39
500 SQ FT	31	-34	31	-34

LINEAR INTERPOLATION FOR INTERMEDIATE VALUES OF EFFECTIVE AREAS IS ACCEPTABLE. OTHERWISE, USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.

ULTIMATE WIND LOAD PRESSURES ARE FOR USE IN LOAD COMBINATIONS LISTED IN FBC 2010 AND ASCE 7-10. THESE COMBINATIONS INCLUDE A WIND LOAD FACTOR OF 0.6 USING ALLOWABLE STRESS DESIGN. AS A RESULT, ULTIMATE PRESSURES LISTED IN THE LOAD TABLES ABOVE ARE REDUCED 40% USING ALLOWABLE STRESS DESIGN. REDUCED LOADS ARE THE "WORKING LOADS."

WIND PRESSURE ZONES 2, 3 & 5 ARE EDGE AND CORNER ZONES. WALL ZONE 5 IS WITHIN 7'-0" OF CORNERS. ROOF ZONE 2 IS WITHIN 7'-0" OF ROOF EDGES AND RIDGES. ROOF ZONE 3 IS AT ROOF CORNERS WHERE ZONE 2 OVERLAPS.

GENERAL NOTES:

1. MATERIALS SPECIFICATIONS:

CONCRETE	3,000 PSI AT 28 DAYS
CONCRETE BLOCK (CMU) BLOCK MORTAR	ASTM C90 (f'm = 1,500 PSI) ASTM C270 TYPE S
REINFORCING STEEL	ASTM A615 GRADE 60
WELDED WIRE FABRIC	ASTM A185 (FLAT SHEETS)
STR STEEL (W)	ASTM A992 GRADE 50
STR STEEL (HSS & TS)	ASTM A500 GRADE B
MISC STR STEEL	ASTM A36
THREADED RODS	ASTM A36, A307 OR A193 GRADE B7
HIGH STRENGTH BOLTS	
	ASTM A307 OR F1554, GRADE 36
NUTS & WASHERS	ASTM A563 & F436
LUMBER	S4S #2 SOUTHERN YELLOW PINE
LVL	iLEVEL TRUS JOIST 1.9E MICROLAM (Fb = 2600 PSI)
ROOF DECKING	$\frac{5}{8}$ " ($\frac{19}{32}$ " MINIMUM) RATED PLYWOOD DECKING
WALL SHEATHING	1" (15" MINIMUM) RATED OSB OR PLYWOOD SHEATHIN
PLYWOOD	APA RATED EXPOSURE 1, 2 OR EXTERIOR
	•

2. STRUCTURE DESIGNED FOR WIND LOADING IN ACCORDANCE WITH ASCE 7-10 STANDARD CODE AS FOLLOWS:

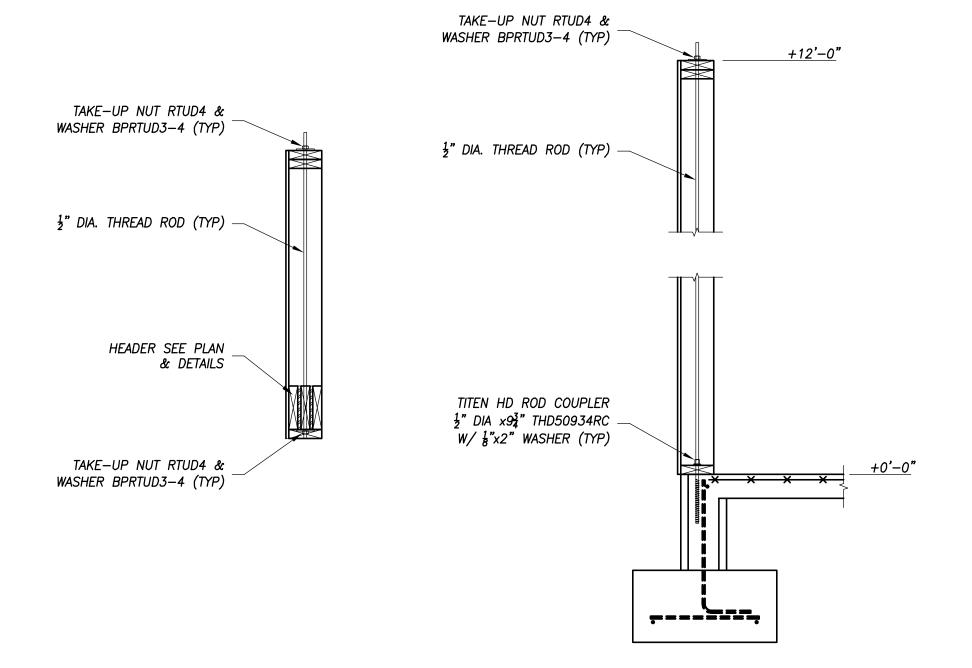
ULTIMATE DESIGN WIND SPEED = 135 MPH NOMINAL DESIGN WIND SPEED = 105 MPH BUILDING RISK CATEGORY II EXPOSURE C ENCLOSED BUILDING INTERNAL PRESSURE COEFFICIENT = ± 0.18

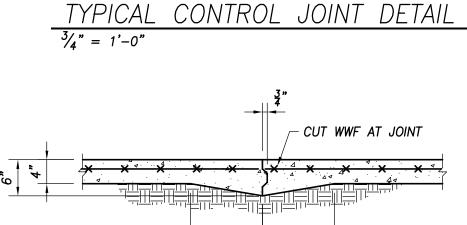
3. THE PRIMARY STRUCTURAL SYSTEM OF THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2010 FBC.

4. ASSUMED ALLOWABLE DESIGN SOIL BEARING PRESSURE IS 2000 PSF. FOUNDATIONS AND FLOOR SLABS SHALL BEAR ON NATURAL GROUND AND ENGINEERED FILL FREE OF ROOTS AND OTHER ORGANIC MATERIALS. ALL FILL MATERIAL SHALL BE SELECT CLEAN STRUCTURAL FILL. PREPARE SUBGRADE AND FILL MATERIAL SOIL IN ACCORDANCE WITH FBC. COMPACT SOIL TO 95% MODIFIED PROCTOR DENSITY MINIMUM. COMPACT FILL MATERIALS IN 6 TO 12 INCH LIFTS MAXIMUM. REFER TO GEOTECHNICAL REPORT PREPARED BY SOUTHERN EARTH SCIENCES, INC. DATED APRIL 27, 2008 FILE NO. P-08-0198.

5. PLACE REINFORCING IN CONCRETE WITH A MINIMUM OF 3" CLEAR COVER WHEN CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. PROVIDE CORNER BARS FOR ALL CONTINUOUS HORIZONTAL REINFORCING.

6. ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE REFERENCED ABOVE (+) OR BELOW (-) FIRST FINISHED FLOOR ELEVATION OF +0'-0". VERIFY ACTUAL FLOOR ELEVATION WITH CIVIL AND ARCHITECTURAL DRAWINGS.





 $\frac{1}{8}$ " x 1" DEEP

SAWED JOINT

TYPICAL CONSTRUCTION JOINT DETAIL $\frac{3}{4}$ " = 1'-0"

1'-0"

1'-0"

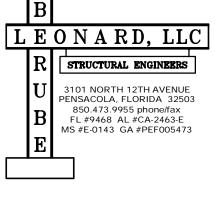
ROOF TO HEADER

LOCATE THREADED ROD TIE-DOWNS AT 48" O.C. MAXIMUM, WITHIN 16" EACH SIDE OF CORNERS, AS INDICATED ON FOUNDATION PLAN AND AS SHOWN ON S-5 OPENING

THREADED ROD TIE-DOWN DETAILS

 $\frac{3}{4}$ " = 1'-0"

ROOF TO FOUNDATION





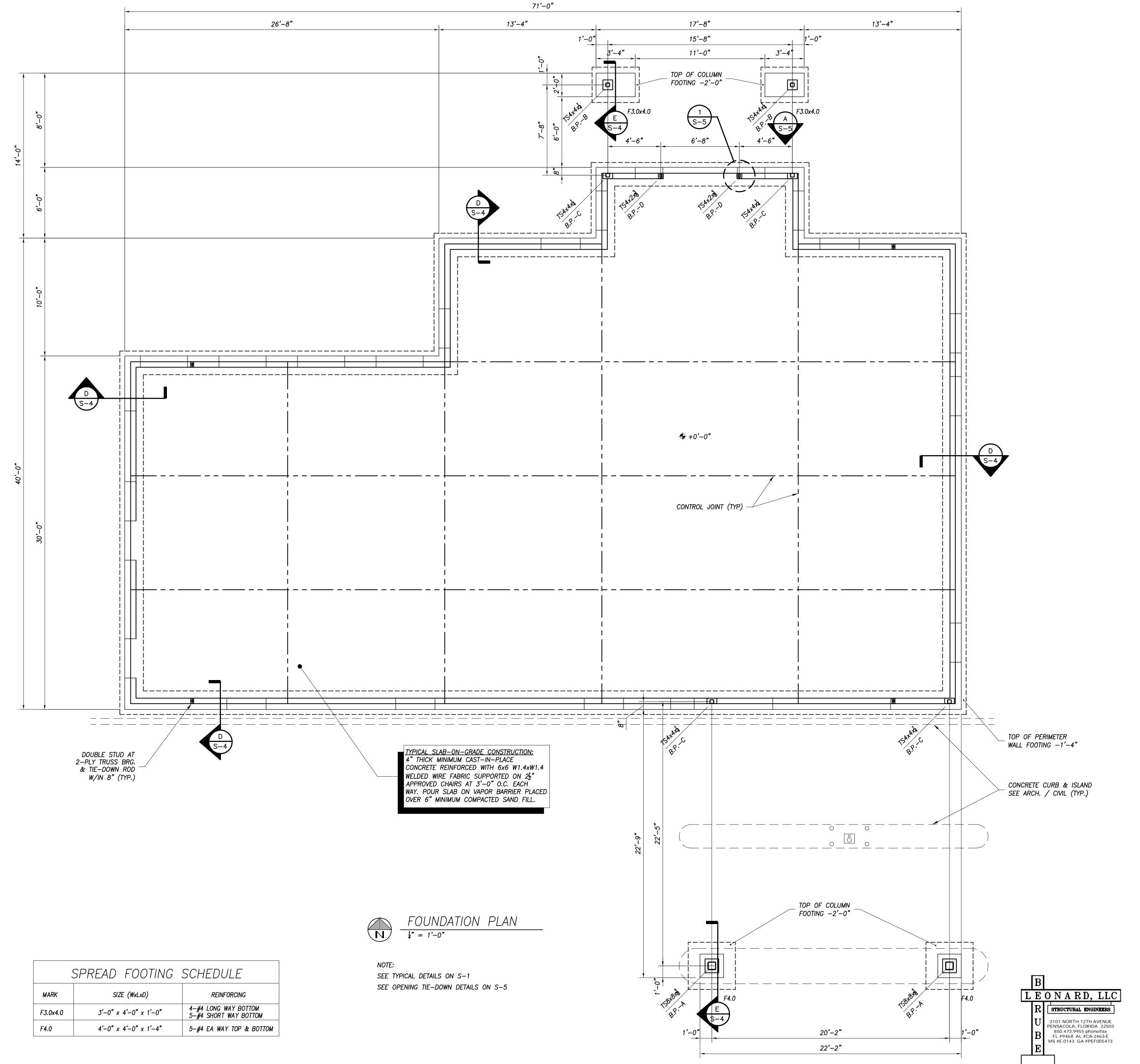
RANCH $\mathbf{\Omega}$ NON ERVICI ANAM,

REVISIONS Description

TRUSS SPECIFICATION TYPICAL DETAILS **GENERAL NOTES &** WIND LOAD INFO

Scale: As Noted December 7, 2012 Date: Drawn By: Checked By: Approved By: BLSE

Dwg. No. S-1



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Description Date

Title:

FOUNDATION PLAN

Scale: As Noted
Date: December 7, 2012
Drawn By: SWL
Checked By: SWL
Approved By: BLSE

1. ROOF TRUSS DESIGN LOADS:

TOP CHORD: LIVE LOAD 20 PSF (REDUIBLE PER THE FBC 2010)

DEAD LOAD 10 PSF WIND LOAD (SEE ULTIMATE WIND LOAD PRESSURE TABLE & GENERAL NOTES S-1)

BOTTOM CHORD: DEAD LOAD 10 PSF LIVE LOAD 0 PSF

2. PREFABRICATED ENGINEERED ROOF TRUSSES: SEE SPECS ON SHEET S-1.

3. FRAMING CONNECTORS SHALL BE SIMPSON STRONG-TIE MODELS SPECIFIED OR EQUIVALENT INSTALLED ACCORDING TO THE MANUFACTURES RECOMMENDATIONS WITH THE SIZE AND QUANTITY OF FASTENERS REQUIRED TO ACHIEVE MAXIMUM LOAD CAPACITY. HOT-DIP GALVANIZE COATING MINIMUM FOR CONNECTORS AND FASTENERS ANCHORED TO PRESSURE TREATED (PT) WOOD.

4. FASTEN §" PLYWOOD ROOF DECKING TO TRUSSES WITH 10d COMMON NAILS AT 6" O.C. ALL SUPPORTS, EDGES AND INTERMEDIATE.

5. COMPLY WITH MINIMUM FASTENER REQUIREMENTS IN FBC 2010 SECTION 2304.9 CONNECTIONS AND FASTENERS FOR ALL WOOD FRAMING MEMBERS AND AS NOTED AND DETAILED ON PLANS.

6. CAPACITY OF HURRICANE ANCHORS SHOWN ON PLANS SHALL BE VERIFIED WITH TRUSS MANUFACTURER'S REACTIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONNECTORS MEETING UPLIFT REACTIONS PER TRUSS MANUFACTURER'S CALCULATIONS BUT NOT LESS THAN THE CONNECTORS SHOWN ON PLANS.

ROOF FRAMING CONNECTOR SCHEDULE

FASTENERS

SIMPSON CONNECTOR

H10A

HCP2

H1

VTCR AT 24" O.C.

(2) H10A

LGT2 + H10-2

LOCATION

TRUSS U.N.O.

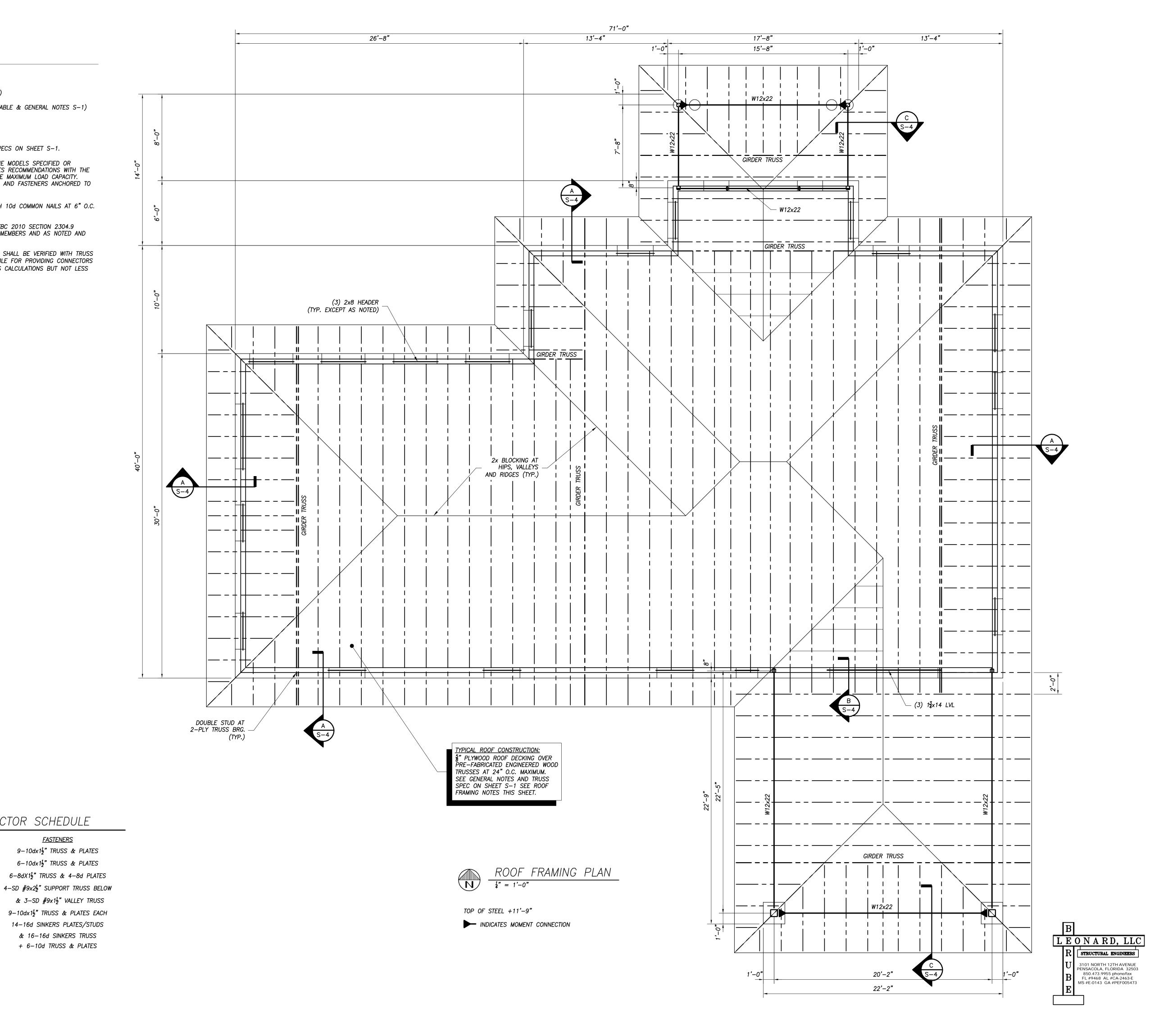
HIP (CORNER) TRUSS

JACK TRUSS

BUILD OVER TRUSS

1-PLY GIRDER TRUSS

2-PLY GIRDER TRUSS



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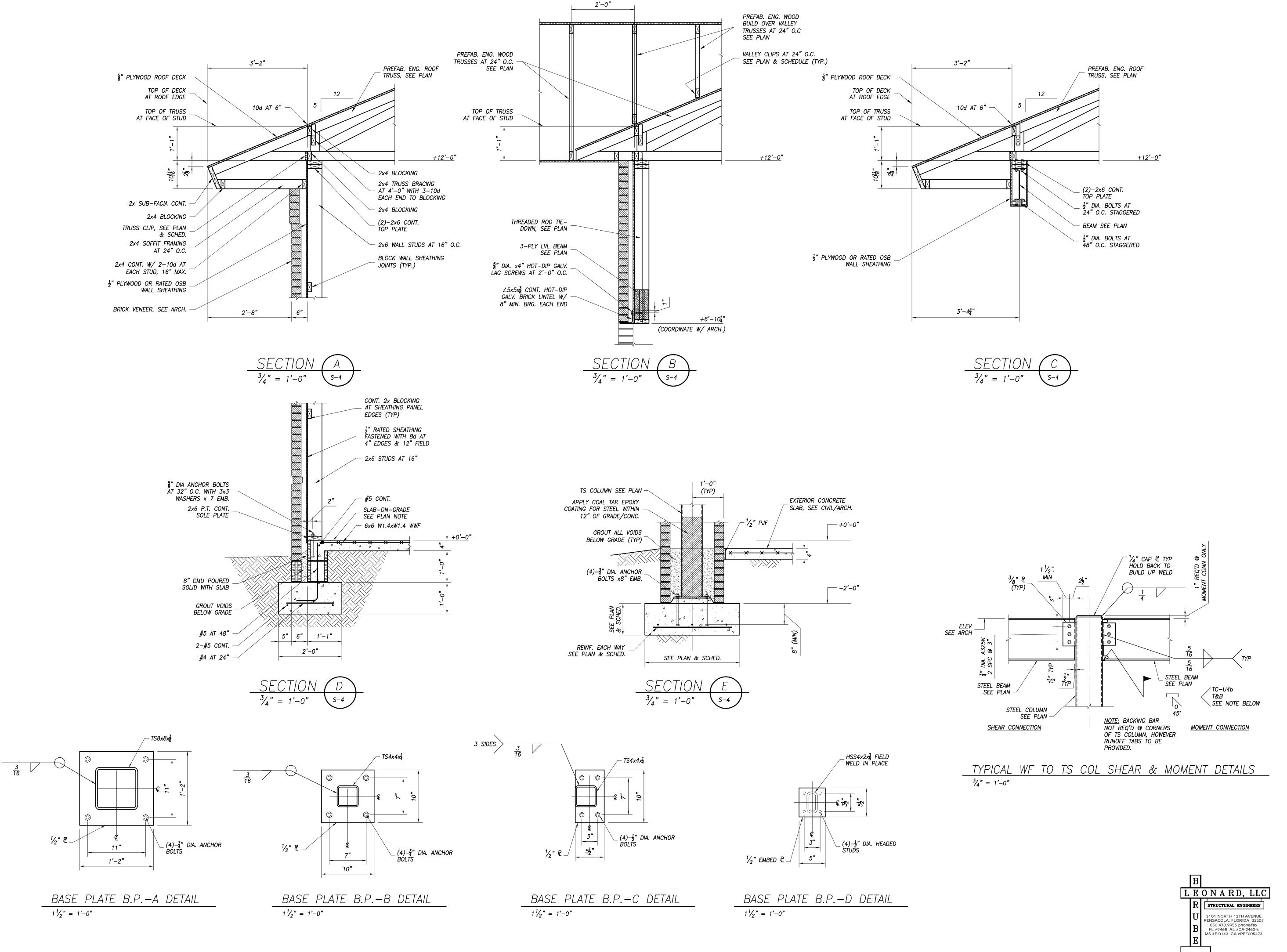
Date:

ROOF FRAMING PLAN

Scale: As Noted December 7, 2012 Drawn By: SWL Checked By: SWL Approved By: BLSE

Dwg. No.

S-3





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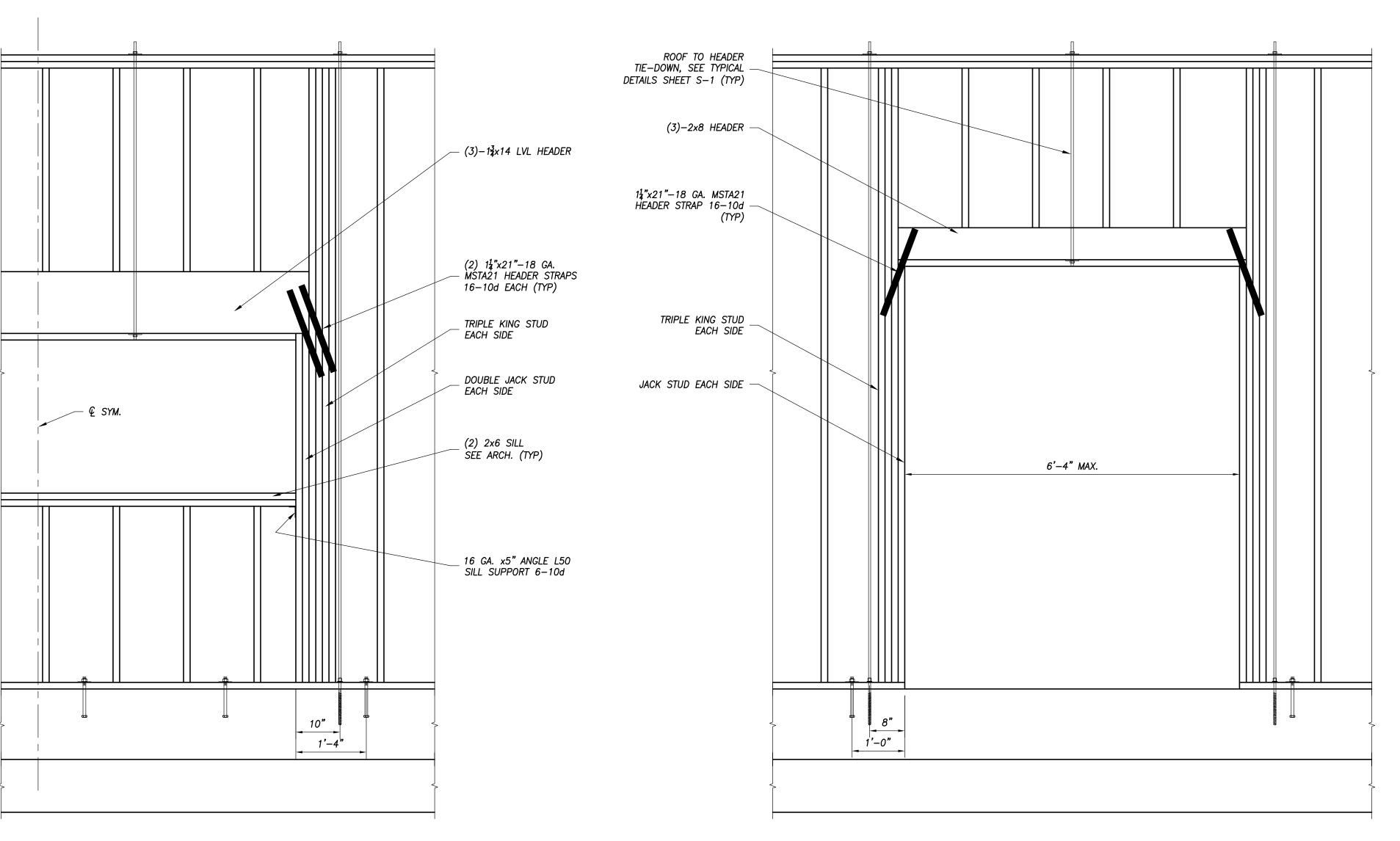
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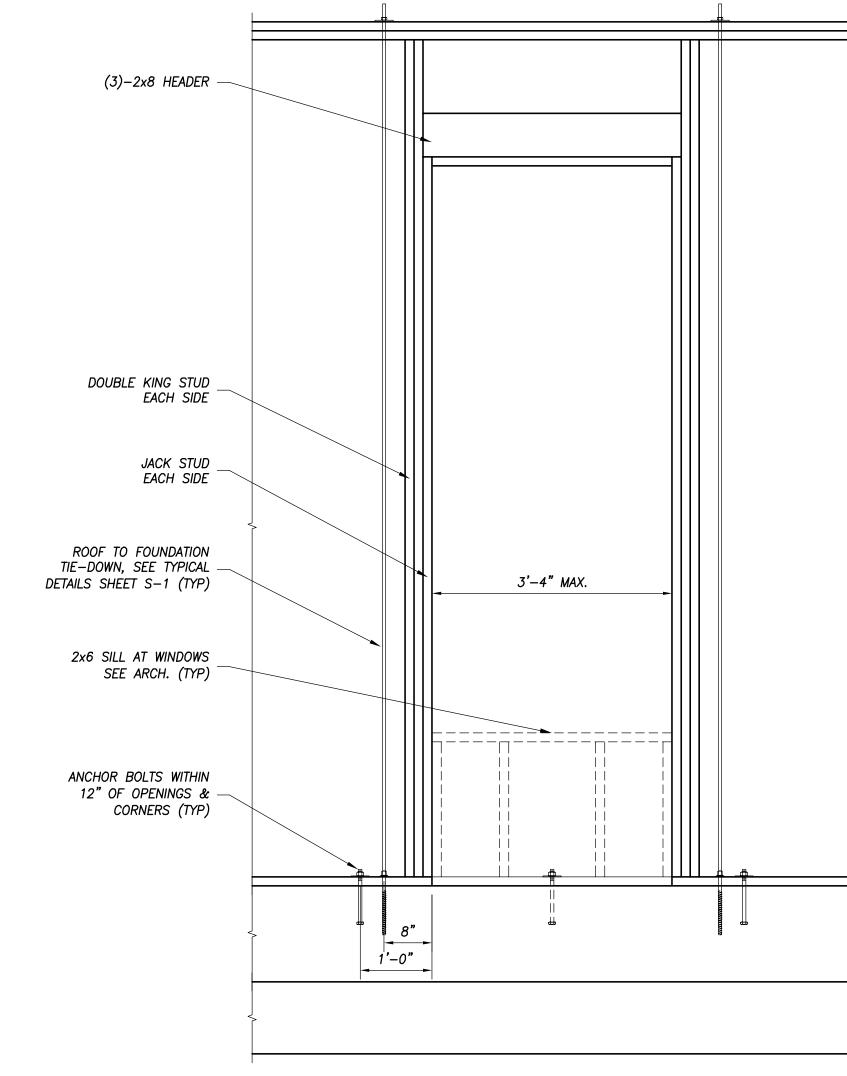
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SECTIONS & DETAILS

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Approved By: BLSE



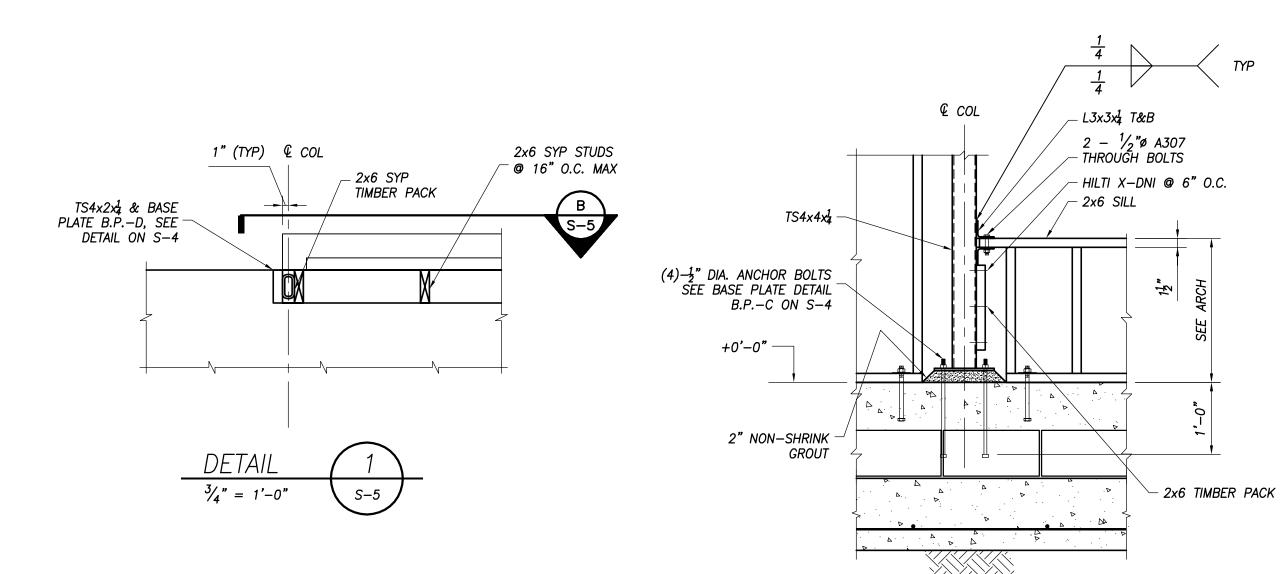


DRIVE UP BANKING WINDOW OPENING LOAD PATH DETAIL

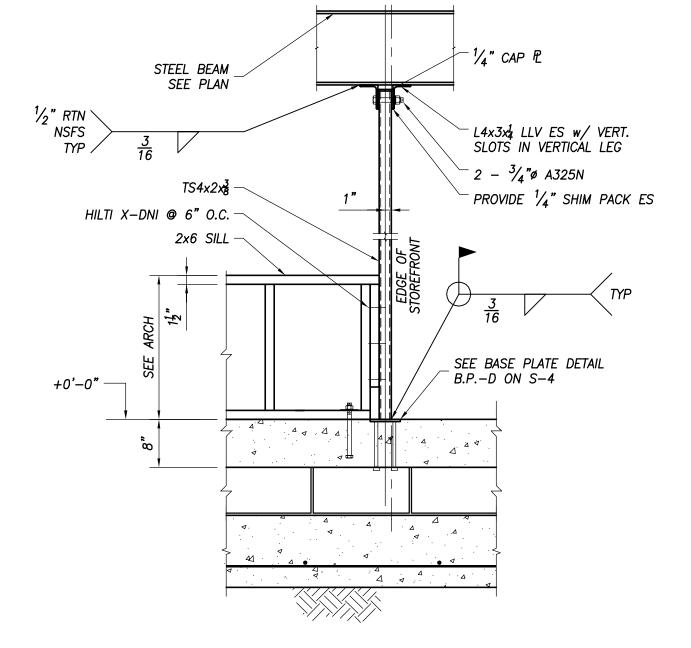
3/4" = 1'-0"

6'-4" OPENING LOAD PATH DETAIL $\frac{3}{4}" = 1'-0"$

TYPICAL (3'-4") OPENING LOAD PATH DETAIL $\frac{3}{4}" = 1'-0"$



 $\frac{SECTION}{\frac{3}{4}"} = 1'-0"$



 $\frac{DETAIL}{3/4"} = 1'-0"$ S-5



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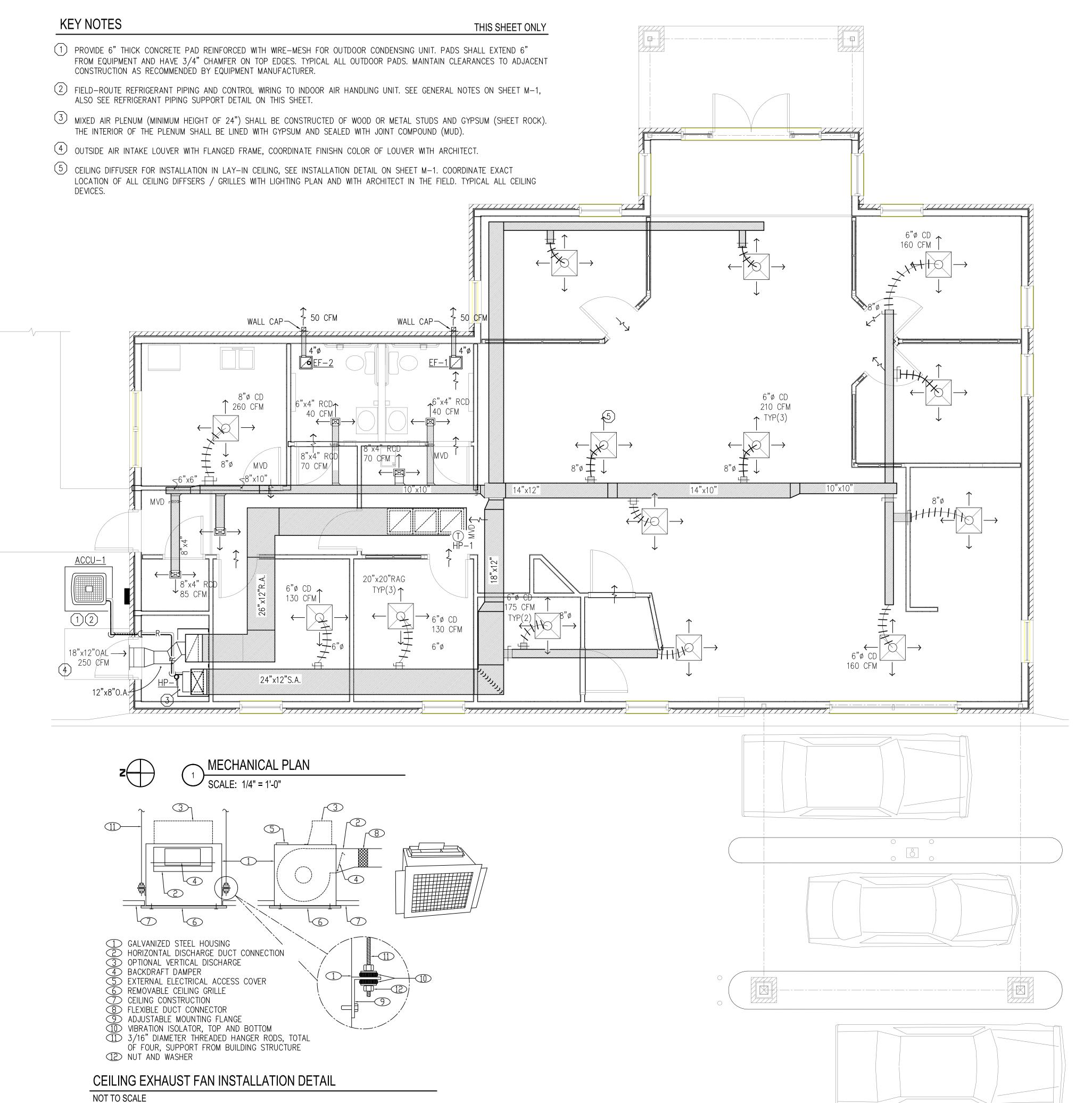
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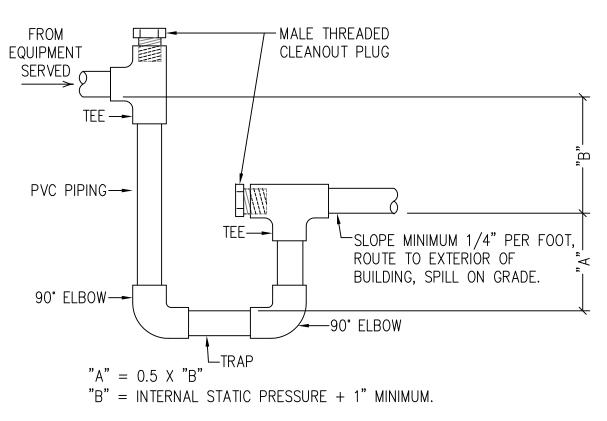
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SECTIONS & DETAILS

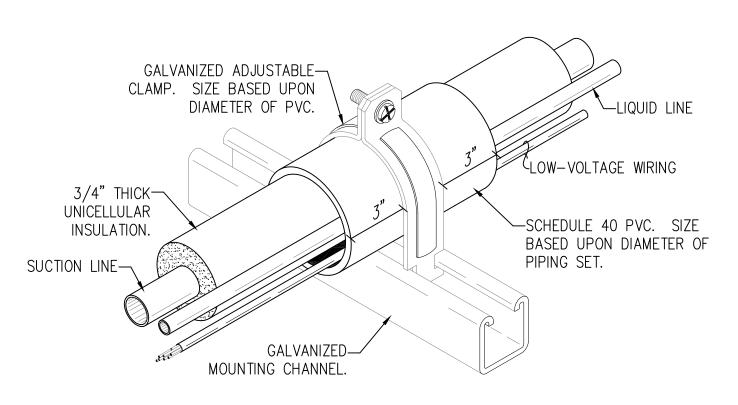
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Drawn By: SWL
Checked By: SWL
Approved By: BLSE





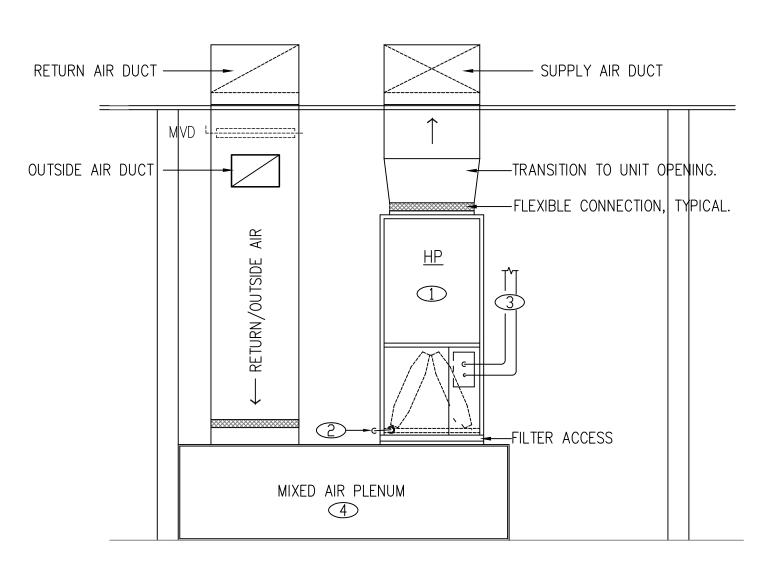
CONDENSATE DRAIN DETAIL

NOT TO SCALE



REFRIGERANT PIPE MOUNTING DETAIL

NOT TO SCALE



VERTICAL HEAT PUMP INSTALLATION DETAIL

NOT TO SCALE

- HEIL MODEL EBP HEAT PUMP AIR HANDLING UNIT TO BE INSTALLED ON TOP OF NEW MIXED AIR PLENUM, SEE NOTES BELOW REGARDING PLENUM CONSTRUCTION.
- CONDENSATE PIPING, TRAP AT UNIT AND ROUTE TO EXTERIOR OF BUILDING (NEAR CONDENSING UNIT LOCATION), SEE TRAP PIPING DETAIL ON THIS SHEET.
- REFRIGERANT PIPING, ROUTE TO CORRESPONDING OUTDOOR UNIT, SEE GENERAL NOTES ON SHEET M-1. SEE REFRIGERANT PIPING SUPPORT INSTALLATION DETAIL ON THIS SHEET.
- 4 24" HIGH MIXED AIR PLENUM CONSTRUCTED OF STUDS WITH SHEETROCK INSIDE AND OUT. SEAL INSIDE OF PLENUM AIR-TIGHT WITH SHEETROCK MUD AND/OR DUCT MASTIC.



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CENTRAL CREDIT UNION OF FLORIDA PANAMA CITY SERVICE BRANCH

	REVISIONS				
No.	Description	Date			

MECHANICAL PLAN

Scale: As Noted
Date: December 7, 2012
Drawn By: JF
Checked By: DA
Approved By: DA

Dwg. No.

Title:

M-1

BRANCH

PANAM/

Title:

PLUMBING PLAN, RISER DIAGRAM, & FIXTURE SCHEDULE

Scale: As Noted
Date: December 7, 2012
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Dwg. No.

GENERAL NOTES

1. DOMESTIC WATER NOT SHOWN FOR CLARITY.

TYPE "L" SOFT COPPER PIPE TO BE USED.

2. CODE APPROVED PVCDWV PIPING TO BE USED ELSEWHERE.

FIXTURE SCHEDULE

P-1A HANDICAP WATER CLOSET
2386.012 CADET 3 RIGHT HEIGHT
295SSC WHITE SEAT
OCR1912E CLOS SUPPLY

P-2A ADA LAVATORY
0355.012 WHITE LAV
B-892 FAUCET
Z8743 GRID DRAIN
301CP 11/4 17G P-TRAP
CR-1912-A SY.KIT
102W WRAP

P-3 DOUBLE SINK
DSE23322-4 ELITE
DELTA 400
TT461-W STRAINER
305CP 11/2 17G P-TRAP
535SN 11/2X13 CONT WASTE
CR-1912-A SY. KIT
BADGER 5 DISPOSER

P-4 WATER COOLER
ELKAY LZ08
BARRIER FREE. SELF-CONTAINED,
ELECTRIC REFRIGERATED, WALL
MOUNTED WATER COOLE. 4.0 FLA,
115V, 60HZ.

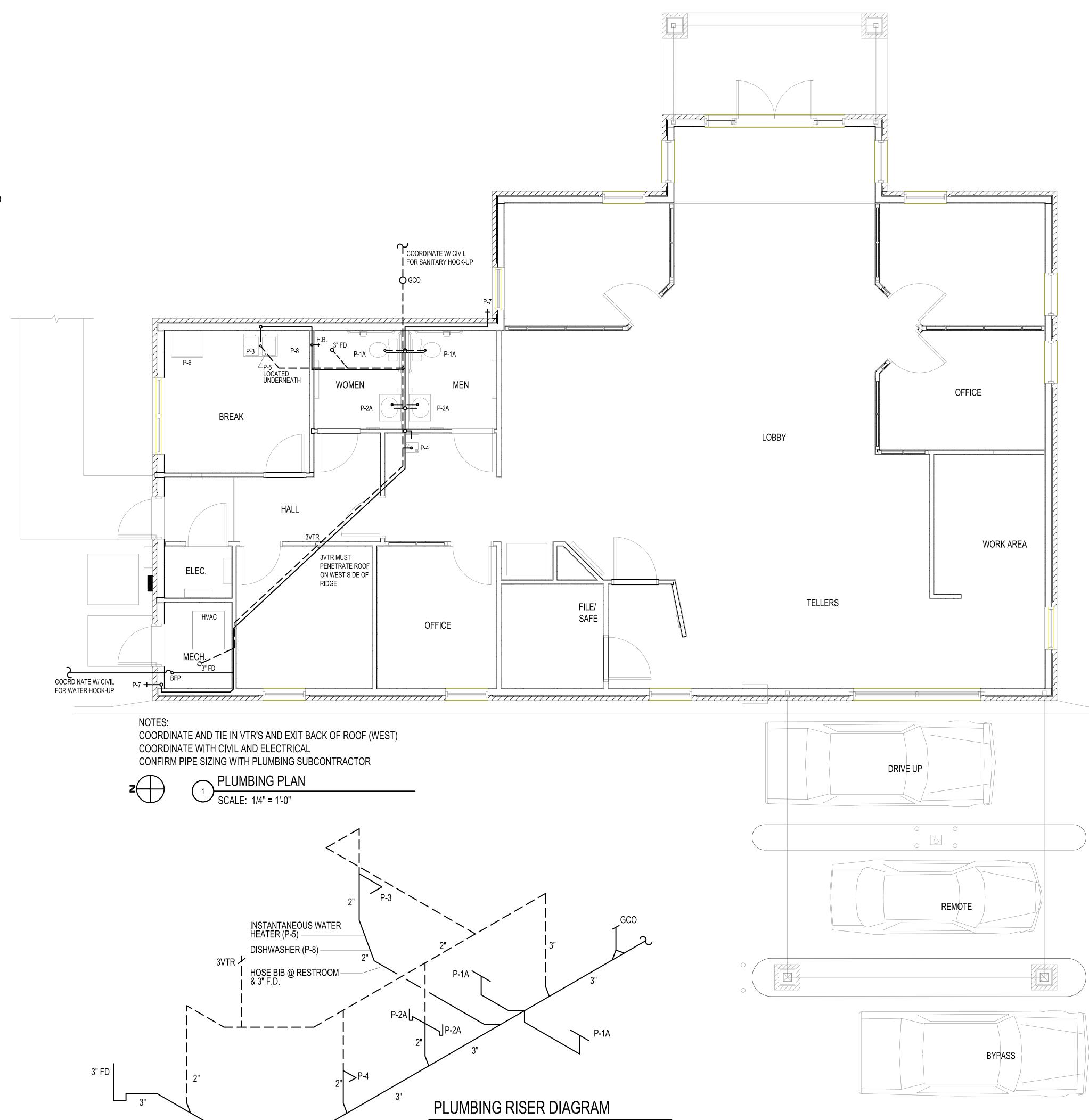
P-5 ELECTRIC HEATER
POINT OF USE, INSTANTANEOUS
EEMAX 3208. 3KW VAC, 208V/1PH/60HZ
TO HEAT 0.5 GPM @ TEMP RISE 41 DEG. F
SHALL HAVE ABS-UL 94VO RATED COVER
ELEMENT SHALL BE REPLACEABLE CART.
INSERT. SHALL HAVE REPLACEABLE FILTER
IN THE INLET CONNECTOR & A FLOW REG.
IN THE OUTLET CONNECTOR. ELEMENT
SHALL BE IRON FREE.

P-6 ICE MAKER BOX W9700HA IPS BOX

P-7 WALL HYDRANT Z1330-10 WALL HYDRANT

P-8 DISH WASHER
COORDINATE WITH OWNER

FD FLOOR DRAINS AN-415P-5B 2-4"

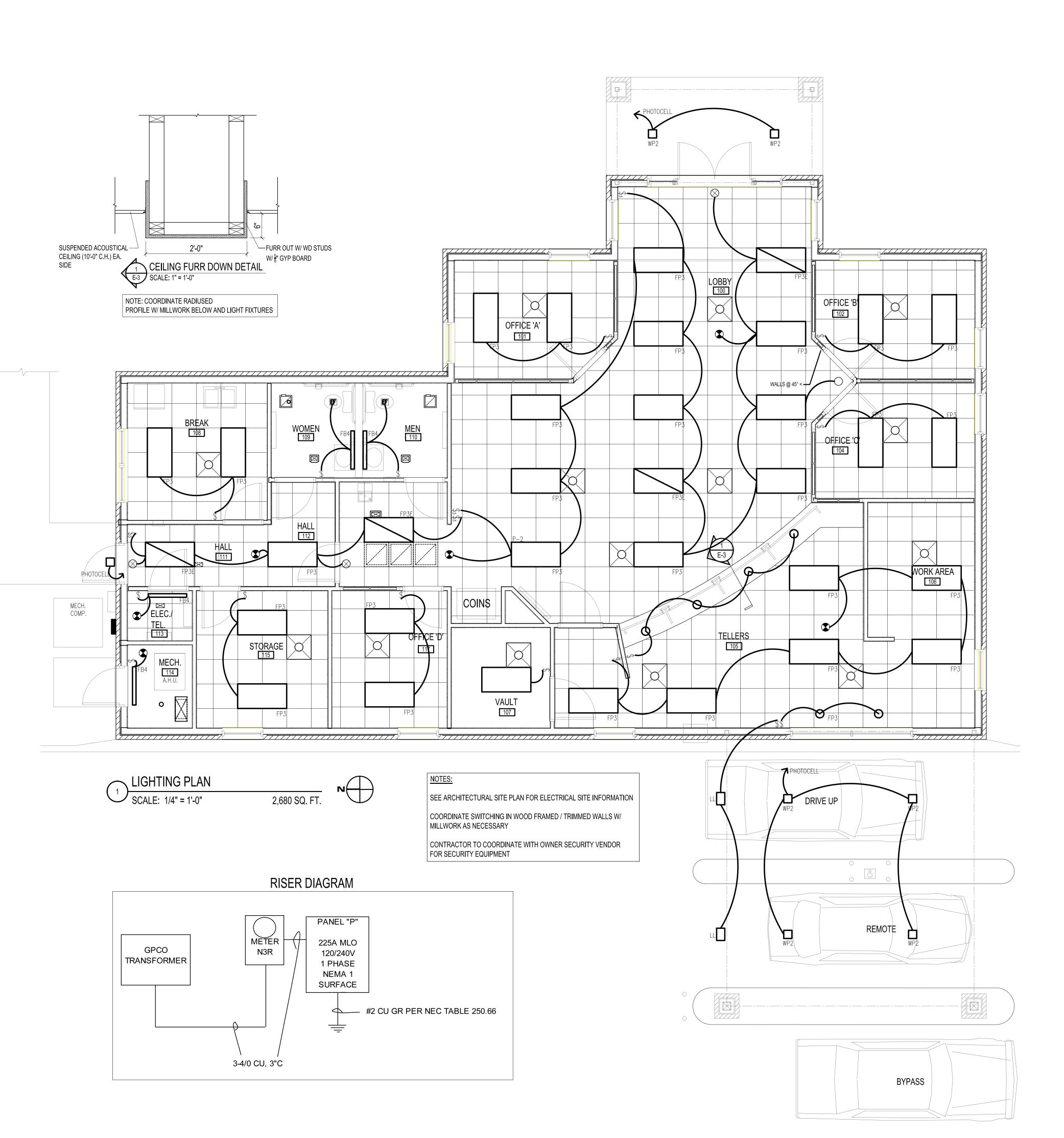


NOT TO SCALE



TOTAL CONNECTED LOAD: 50.26 KVA
MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

29 EXISTING ATM





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ANAM,

Title:

ELECTRICAL LIGHTING PLAN

Scale: As Noted
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Drawn By: JF
Checked By: DA
Approved By: DA



CENTRAL CREDIT UNION OF FLORIDA

BRANCH

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PANAM/

	REVISIONS	
).	Description	Date

Title:

ELECTRICAL POWER PLAN

Scale: As Noted
Date: December 7, 2012
Drawn By: JF
Checked By: DA
Approved By: DA